



PRODUCT CATALOG



BONOMI™
INDUSTRIES

Started in 1954 by a young Silvio Bonomi, Bonomi Industries led product and process innovations of the brass valve industry for over 70 years

Our founder's motto was "Quality and trust". This is the legacy we bring forward every day.





About us

BONOMI INDUSTRIES is an Italian manufacturer of high quality shut-off brass valves, actuators and custom-engineered solutions. Under the RuB brand, its products are globally trusted for their reliability and performance in a variety of applications.

BONOMI INDUSTRIES is part of Hadron group — a private holding company established in 2018 during the strategic reorganization of Rubinetterie Utensilerie Bonomi (RuB), which also led to the creation of Shedstone, a real estate company — BONOMI INDUSTRIES continues to grow and innovate. Started in 1954, with entrepreneurial roots tracing back to 1828, the company upholds the values and tradition of a family business while embracing a vision focused towards the future.

Growth at BONOMI INDUSTRIES is driven by continuous investments in product improvements, advanced machining, assembly, and logistics technologies, as well as expanded manufacturing capabilities, enhanced system interconnectivity, database analysis and strengthened engineering and R&D efforts. At the same time, sustainability — encompassing environmental, social, and governance topics — has always been part of the company's DNA and inspires meaningful actions.

For BONOMI INDUSTRIES, innovation and responsibility go hand in hand. This commitment shapes a journey aimed at safeguarding the environment, empowering people, and fostering resilient governance for a better tomorrow.



 **Bonomi Industries turns words into actions for all stakeholders**
Scan the QR code to discover our values





Companies

RuB valves and actuators are trusted worldwide, installed across five continents and proven in the most demanding applications.

Production takes place entirely at our headquarters, BONOMI INDUSTRIES S.r.l., in Mazzano (Brescia), Italy. Finished products are then distributed globally from Italy and through our international branches. In North America, *RuB, Incorporated* operates from a modern 5.000 sqm (50,000 sqf) facility, handling both assembly and distribution. In Japan, *RuB kk* serves as a strategic presence in a peculiar market.

With a strong global presence, we provide proximity, reliability, and outstanding service to our customers. Our sales team builds lasting partnerships with distributors and OEMs by offering responsive support and technical expertise. Certified, high-quality products, combined with deep knowledge of local cultures and regulations, make BONOMI INDUSTRIES the trusted partner in fluid control solutions.



Bonomi Industries srl

MAZZANO, BS - ITALY
Manufacturing



RuB, Inc.

SHAKOPEE, MN - USA
Distribution



RuB, Kk

TOKYO - JAPAN
Distribution



BONOMITM
INDUSTRIES



Quality

Quality you can trust, proven through generations of experience.

From rigorous incoming goods inspections to double leak testing, 24-72 hour valve assessments, and visual inspections for top markets/applications, BONOMI INDUSTRIES ensures consistent reliability and precision in every product. Advanced traceability systems, calibrated instruments, and statistical software enhance quality control throughout the production process.

Our dedicated Quality Control team supports continuous monitoring and improvement, ensuring that each production batch meets exactly applicable standards. Paired with robust testing protocols and expert technical support, we deliver solutions designed to meet the most challenging applications.



Approved by Lloyd's Register Quality Assurance:

ISO 9001:2015 (Quality Management) since 1998.

ISO 14001:2018 (Environmental Management System) since 2021.

ISO 45001:2018 (Occupational Health & Safety) since 2021.



Environment: Air and water are filtered and recovered. Use of recycled environment-friendly packaging materials. Scrap is recycled.



Product Quality Assessment: recognized by certifying bodies in all major industrialized countries worldwide



Safety: compliance with the provisions of decree 81/2008 for the safety system, extensive staff training, and continuous monitoring



Customized products developed by the Engineering Center

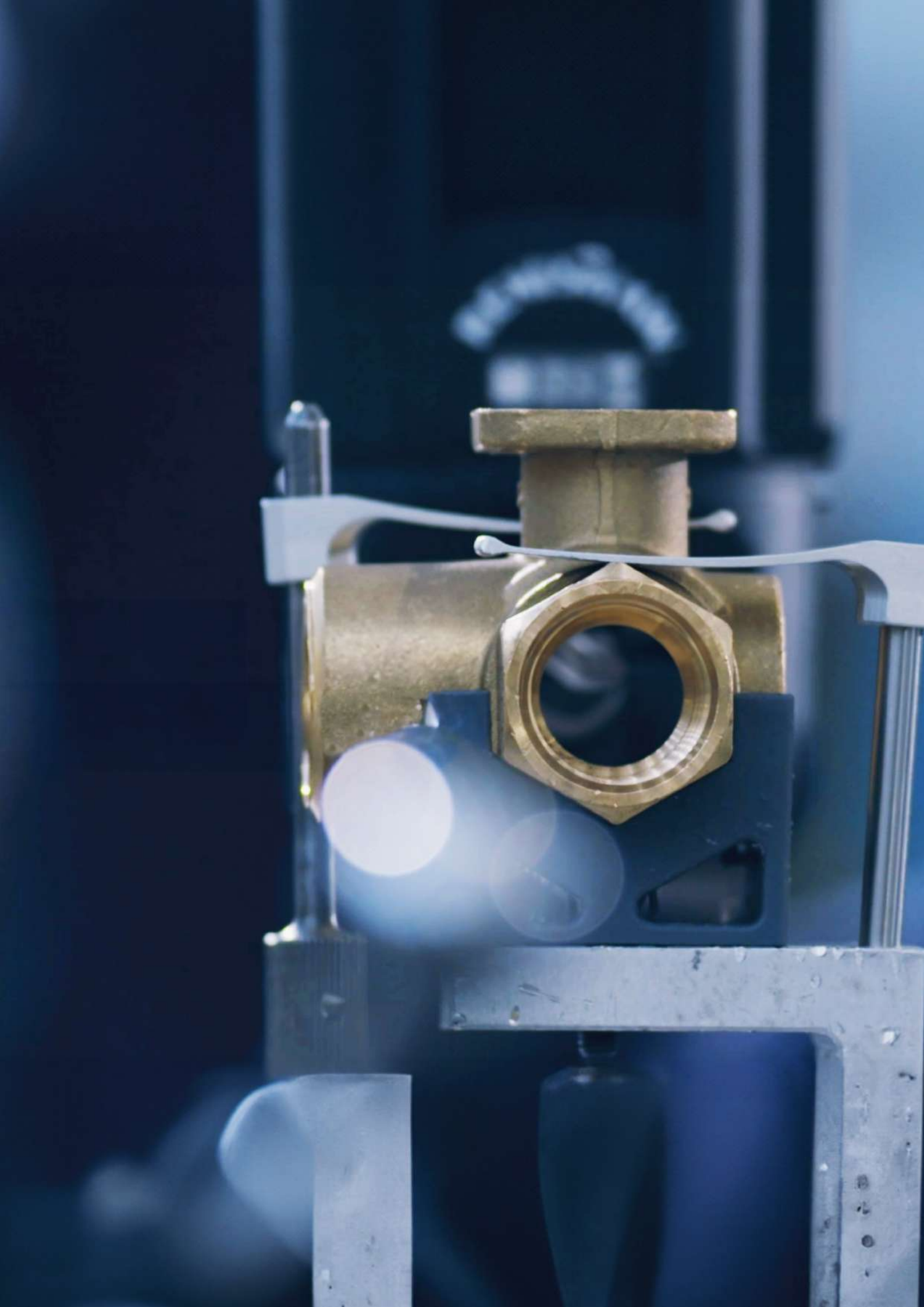


In compliance with the **PED Directive** since 2002



Quality you can trust

See our quality process in action/Experience every step of our quality process





Sustainability

Sustainability has always been a necessity, not a choice. The adoption of sustainable practices at corporate level lays the foundation for creating virtuous cycles that inspire future generations.

Our commitment is stronger than ever, and we're proud to share with you here below figures that mark the tasks we focus on our actions, achievements, and the vision we have for the future.

Localized production of electricity is now a reality and we have not been shy with our investments towards clean renewable energy. Companies are finally waking up to producing their own electricity.

Aside from covering the needs of our production manufacturing facility with through solar panels, we constantly reduce energy consumption by investing in smart technology and minimizing heavy material handling of heavy material.

HOW WE WALK THE TALK.

100% of our brass ball valves prevent unnecessary waste – lifetime guaranteed

96% manufacturing scrap is reused

30% of energy comes from our own renewable sources

100% cooling waters are recovered and reused



Together, safeguarding our Planet
Learn more about our initiatives.







OEM

BONOMI INDUSTRIES has cracked the code to solve a lot of seemingly insurmountable technical and operational challenges resulting in millions Euro savings for our clients.

We have proven expertise in solving technical and operational challenges in the following primary fields: boilers and burners, LPG gas tanks and handling systems, water distribution and purification systems, fire protection, refrigeration, HVAC, marine applications, compressors, tanks for various media, machine tools, filtration, chemical, food processing and pharmaceutical.

We are intrigued to learn about your obstacles and bring your custom solution to life.

BENEFITS

Lengthen your equipment's life and lower your costs. We will select and build the best components for your specific and unique application.

We'll ensure you don't have to face production downtime caused by faulty valves or actuators.

Build reliable equipment, leveraging reliable partners. With 70 years in business, we've been ISO 9001 and PED compliant for 20+ years. As a family company, our reputation stems from customer's satisfaction so we work to exceed any of your expectations.

When entrusting us with your business, you're also doing the right thing for the People and the Planet. We're ISO 45001 and ISO 14001 certified, but we don't stop there. We're committed to surpassing government standards of environmental sustainability, and as a family company, we care for People and Community.



OEM solutions, custom made for you

OEMs have a Partner to solve their challenges and develop new products





Certifications

We are proud to offer 100% made-in-Italy shut-off brass valves, actuators, and OEM-engineered products, all manufactured in our ISO 9001:2015 certified headquarters in Brescia, Italy. Since adopting this quality management system in 1992 under Lloyd's Register, we have continuously improved product reliability, performance and traceability.

Our certifications, granted by leading global laboratories and agencies, demonstrate compliance with the highest standards for major applications and markets. Supported by rigorous testing and state of art technology, our products meet the demanding requirements of top manufacturers and distributors worldwide.

PRODUCT TYPE APPROVALS

	Deutsche Vereinigung des Gas und Wasserfaches e.V. Technisch-wissenschaftlicher Verein			Система сертификации ГОСТ Р Госстандарт России	
	Deutsche Vereinigung des Gas und Wasserfaches			The Australian Gas Association	
	Deutsche Vereinigung des Gas und Wasserfaches Hygiene			OSHA Compliant	
	Schweizerischer Verein des Gas und Wasserfaches			Factory Mutual Research Corporation	
	Attestation de Conformité Sanitaire			Underwriter Laboratories Inc.	
	ARGB-KVBG			CRN-TSSA	
	Water Regulations Advisory Scheme			CSA International for Drinking Water to NSF/ANSI 61- NSF/ANSI 372	
	British Standards Institution			CSA - Canadian Standards Association	
	Kiwa KUKreg4			KSFD -Kuwait Fire Service Directorate	
	Ri.se. / Boverket			LIA - L.P Gas Instruments Inspections Association	
	Kiwa - Swedcert			General Directorate of Civil Defence	

COMPLIANCES

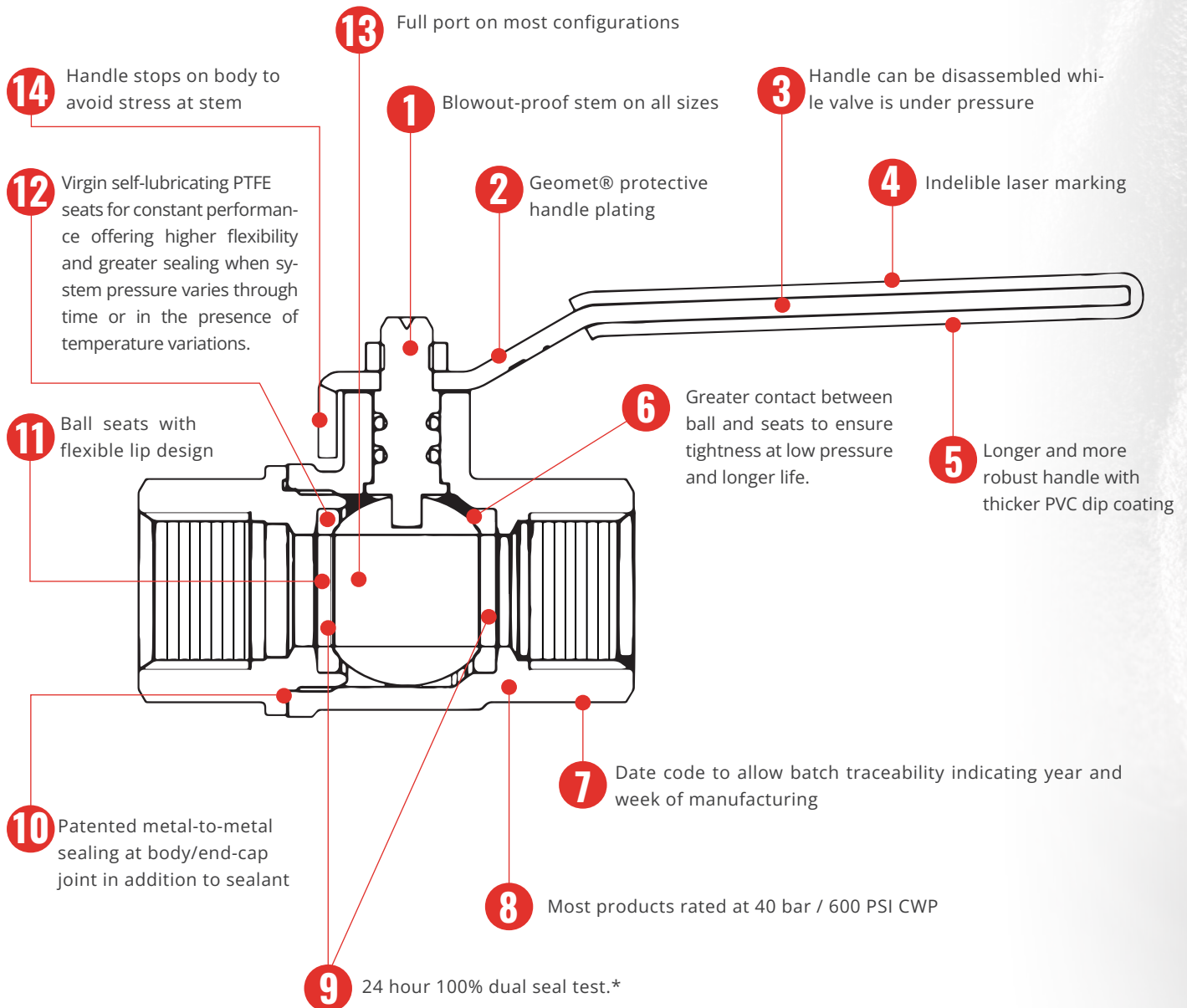
	ROHS			PED 2014/68/UE by ICIM (0425)	PED
	Reach declaration	Reach		Декларация соответствия	EAC



We developed and constantly innovate strict protocols and processes
Discover all the certifications and awards received from international bodies



◀ RuB valve features



RuB seal test

Valve in half open position is pressurized at 6 bar (87 psig), then closed, trapping compressed air in between ball seats and stem sealing. After adequate preset time, based upon valve size, any leaks are verified using extremely accurate electronic sensors and any defective valve is automatically rejected; all valves passing this initial seal test are filled with compressed air again and remain closed and under pressure for minimum 24 hours; after 24 hours, the valves go back again under the same accurate a new set of electronic pressure sensors – with same accuracy – and any leaking valve is automatically rejected.

* Certain products are not suitable for double seal test



◀ Our solutions come with an added benefit: maximizing your revenue
Scan the QR code to discover our products





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ACTUATION

Reliable valve automation requires precision and durability. RuB electric and pneumatic actuators, designed for 100,000 cycles, deliver consistent performance across diverse applications, including energy, HVAC, and water treatment systems.

Trusted by leading food, pharmaceutical, and chemical manufacturers, they streamline processes like automated dosing, ensuring efficiency, quality, and cost savings.





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COMPACT POWER

Electric actuator - 8 Nm (71 in-lb)

The CP series Electric actuator provide an output torque of 8 Nm and it is available in AC and DC voltage.

Compact package to fit in restricted spaces. The CP series has an ISO 5211 mounting interface for direct assembly.



QUALITY

- Bidirectional motor
- DC brushless motor
- Over 100.000 cycle life tests made
- Duty cycle 60%
- Direct mount on valve for perfect shaft alignment
- Positive orientation between ball valve and actuator
- Actuator easily removable for manual operating by screwdriver (s.31)
- Visual position indicator
- Standard power cable length: 0,8 m (31")
- Micro-switches can pass up to 1A

BODY

- Corrosion resistant PC plastic housing
- The gearbox structure is made of steel

WORKING TEMPERATURE

- -20°C (-4°F) to +80°C (+180°F)*

*UL approval up to +70°C (+160°F)

UPON REQUEST

- DC models with negative command
- Custom cable length
- Terminal with connector

APPROVED BY OR IN COMPLIANCE WITH

- UL-listed Class XABE
- IEC/CE:
 - Low voltage directive (LVD) 2014/35/EU
 - Electromagnetic Compatibility Directive (EMCD) 2014/30/EU
 - IEC/EN 60730-1 Automatic electrical controls for household and similar use - Part 1: General requirements
 - IEC/EN 60730-2-14 Automatic electrical controls for household and similar use - Part 2-14: Particular requirements for electric actuators
- IEC 60529: IP65 degrees
- ANSI/NEMA 250: Enclosures for Electrical Equipment NEMA 4X
- IEC/EN 60730-1: IEC Electric Protection Class
 - 110VAC e 220VAC: Class 2 (II)
 - Other voltage: Class 3 (III)

HOW TO ORDER:

POWER SUPPLY	CONTROL TYPE	OPERATING TIME 90°	POWER CONSUMPTION	CODE	
				with 2 Motor-voltage Switches	with 2 Free Auxiliary Switches
220 - 240V AC	2 wires	15/20 sec*	8W	-	CP08A2K00100
220 - 240V AC	3 wires	15/20 sec*	8W	-	CP08A3K00100
110 - 120V AC	2 wires	15/20 sec*	8W	-	CP08B2K00100
110 - 120V AC	3 wires	15/20 sec*	8W	-	CP08B3K00100
24V AC	2 wires	15/20 sec*	8W	-	CP08C2K00100
24V AC	3 wires	15/20 sec*	8W	-	CP08C3K00100
24V DC	2 wires	3 sec	5.5W	CP08D2J00200	CP08D2K00200
24V DC	3 wires	3 sec	5.5W	CP08D3J00200	CP08D3K00200
24V AC DC	2 wires	3 sec	5.5W	-	CP08E2K00300
24V AC DC	3 wires	3 sec	5.5W	-	CP08E3K00300
12V DC	2 wires	3 sec	5.5W	CP08F2J00200	CP08F2K00200
12V DC	3 wires	3 sec	5.5W	CP08F3J00200	CP08F3K00200
3.5 - 12V DC	2 wires	3 sec	5.5W	-	CP08G2K00200
3.5 - 12V DC	3 wires	3 sec	5.5W	-	CP08G3K00200

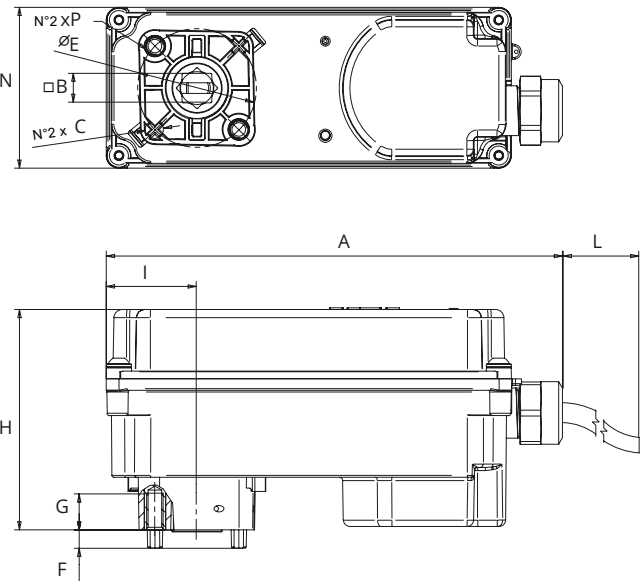
*AC 50Hz: 20 sec; AC 60Hz: 15 sec

Information regarding additional applications () other than the recommended one (coloured) are based on available information and are offered as a suggestion only. Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.



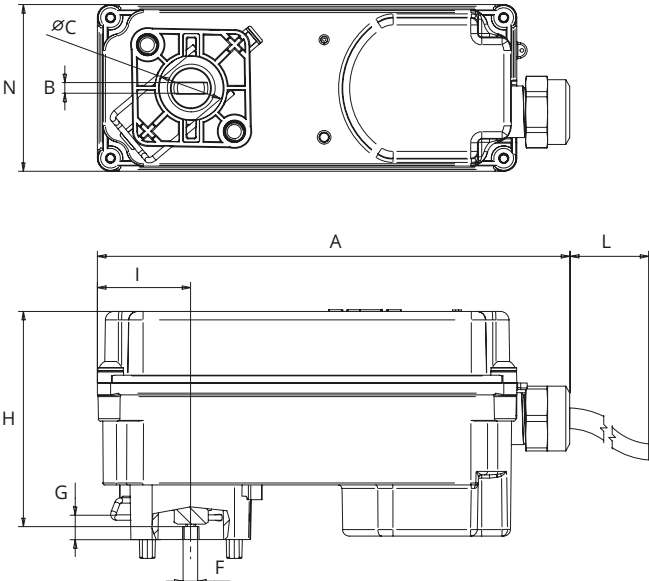
ACTUATION

FLANGE ISO 5211 F03



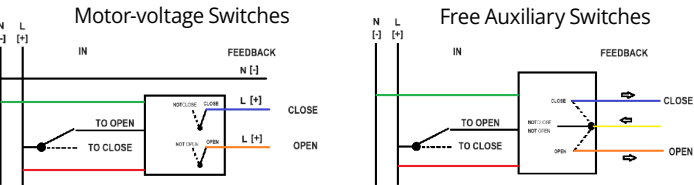
	Size mm	Size inch
A (inch)	138.5	5.45
L (inch)	~800	~31.50
I (inch)	27.5	1.08
H (inch)	67	2.64
G (inch)	11	0.43
F (inch)	5.5	0.22
N (inch)	49	1.93
Square B (inch)	9	0.35
ØC (inch)	5.5	0.22
ØE (inch)	36	1.42
P	M5	M5

S.31

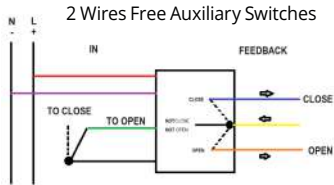


	Size mm	Size inch
A (inch)	138.5	5.45
L (inch)	~800	~31.50
I (inch)	27.5	1.08
H (inch)	63.2	2.49
G (inch)	7.3	0.29
F (inch)	4.3	0.17
N (inch)	49	1.93
B (inch)	3.18	0.13
ØC (inch)	18.7	0.74

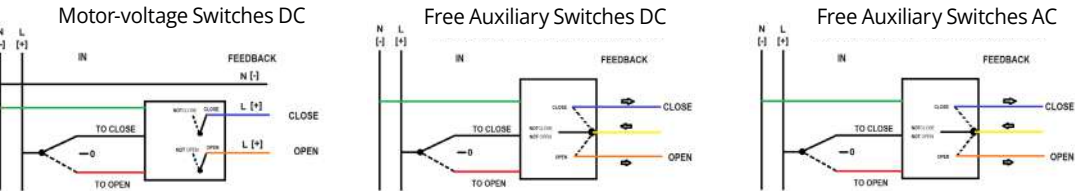
WIRING DIAGRAM FOR 2 WIRES CONTROL - V AC / V DC MODEL



WIRING DIAGRAM FOR 2 AND 3 WIRES CONTROL - V AC-DC MODEL

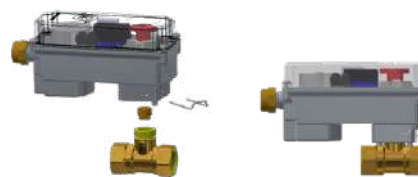


WIRING DIAGRAM FOR 3 WIRES CONTROL - V AC / V DC MODEL



CP8 VALVES COMBINATIONS

Simple assembly operation
DUAL ACTUATOR-VALVE INTERFACE



QUICK CONNECT
MOUNTING KIT TO BE ORDERED SEPARATELY "KCPA0AA00100"



S.31	ΔP	1/4"	3/8"	1/2"	3/4"
		AV31BF3	AV31CF3	AV31DF3	AV31EF3
	0 ÷ 16 Bar (0 ÷ 232 PSI)	•	•	•	•



INTEGRATED ISO 5211 FLANGE
MOUNTING KIT INCLUDED



S.64 Low Torque	ΔP	1/2"	3/4"	1"	1 1/4"
		S64DxxA	S64ExxA	S64FxxA	S64GxxA
	0 ÷ 6 Bar (0 ÷ 87 PSI)	-	-	•	•
	6 ÷ 16 Bar (87 ÷ 232 PSI)	-	-	•	•



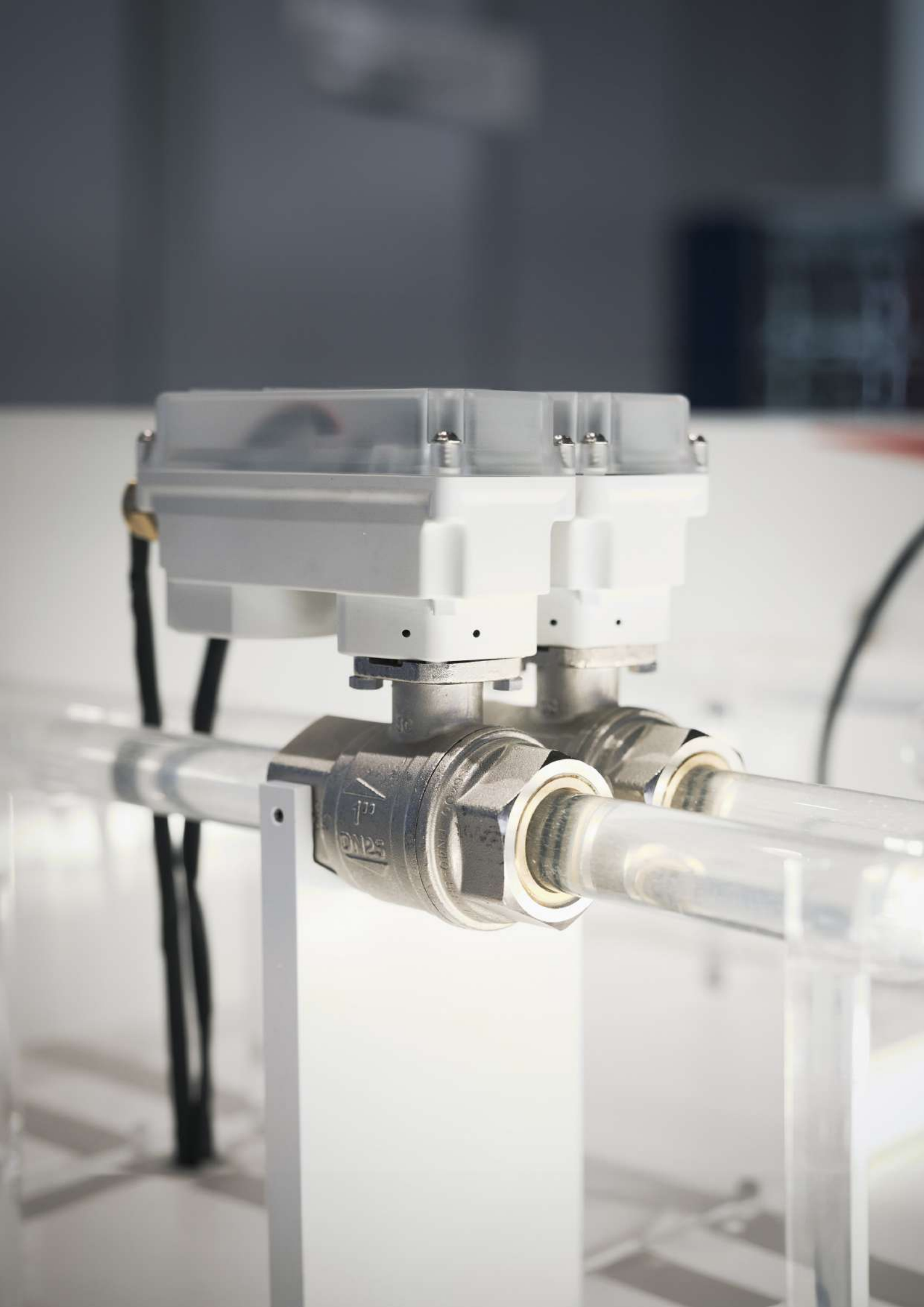
S.64 K.64	ΔP	1/2"	3/4"	1"	1 1/4"
		S64Dxx	S64Exx	S64Fxx	S64Gxx
	0 ÷ 15 Bar (0 ÷ 217 PSI)	•	•	•	-
	15 ÷ 40 Bar (217 ÷ 580 PSI)	•	•	•	-



S.65	ΔP	1/2"	3/4"	1"	1 1/4"
		S65Dxx	S65Exx	S65Fxx	S65Gxx
	0 ÷ 16 Bar (0 ÷ 232 PSI)	•	•	•	•



S.76	ΔP	1/2"	3/4"	1"	1 1/4"
		S76Dxx	S76Exx	S76Fxx	S76Gxx
	0 ÷ 16 Bar (0 ÷ 232 PSI)	•	•	•	-





C-Tork Actuator

Compact lightweight electric actuator

The CT electric actuators are designed to drive ball and butterfly valves with ISO5211 mounting pad, providing a quarter turn motion.

In combination with **RUB** valves are used in wastewater treatment plants, power plants, refineries, mining processes, food factories and in the fluid automated control in HVAC.



THE CT FAMILY PROVIDES THE FOLLOWING OUTPUT TORQUES:

Model	Nominal Torque
CT1	8 Nm (71 lb-in)
CT2	11 Nm (97.5 lb-in)
CT3	22 Nm (195 lb-in)
CT4	40 Nm (354 lb-in)

TECHNICAL FEATURES & BENEFITS:

- **Direct ISO 5211 mount on valves.**

Requires no separate linkage because the CT Series Actuators (CT2, CT3 & CT4) are ready for direct attachment to ISO5211 mounting pad.

- **Compact package with perfect shaft alignment.**

Smaller actuator footprint enables installation in confined spaces; direct mount on ball valves reduces the mounting space requirement.

- **Several voltage ratings available.**

Available with the most common power supplies around the globe.

- **Fire retardant plastic with high IP ratings enclosure.**

Provides a high degree of protection from dust, splashing water, rough handling and tough environments.

- **Auxiliary Switches.**

Provides line voltage capable switch up to 1 A Resistive.

- **Special models available.**

The CT family fits the customer needs extending the application coverage on request.



KEY CODES:

For available options see single model sheet.

CT	X	X	X	X	X	X	
							Option: R = Anti-condensation Resistance*** FO = Failsafe Valve Open FC = Failsafe Valve Close
							Auxiliary Switches: 0 = No Micro 1 = 1 Aux. Switch 2 = 2 Aux. Switches
							Manual Override: M = Manual Override N = No Manual
							Control Type: A = 2 Wires B = 3 Wires C = 2 and 3 Wires D = Prop. 0 - 10 Vdc E = Prop. 2 - 10 Vdc F = Prop. 0 - 20 mA G = Prop. 4 - 20 mA
							Power Supply: A = 230Vac 50/60 Hz * B = 110Vac 50/60 Hz * C = 24Vac 50/60 Hz * D = 24Vdc E = 12Vdc F = 24Vac/dc G = 100 - 230Vac H = 230Vac 60 Hz ** I = 110Vac 60Hz ** L = 24Vac 60Hz **
							Model: CT1 = 8Nm (71 lb-in) CT2 = 11Nm (97.5 lb-in) CT3 = 22Nm (195 lb-in) CT4 = 40Nm (354 lb-in)

Note: * Not valid for CT4 (50 Hz only), ** Valid for CT4 only, *** Not available for CT1

Ask for additional information on the whole range of **BONOMI INDUSTRIES** products and consult with your supplier for special applications.



CT1

8 N.m (71 lb-in)



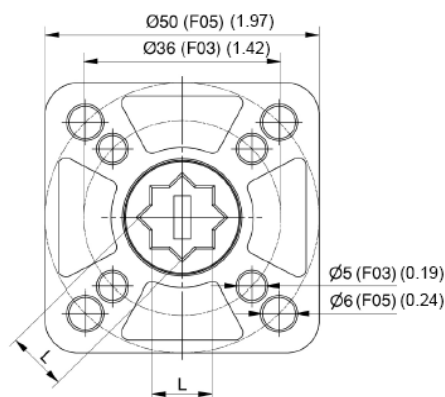
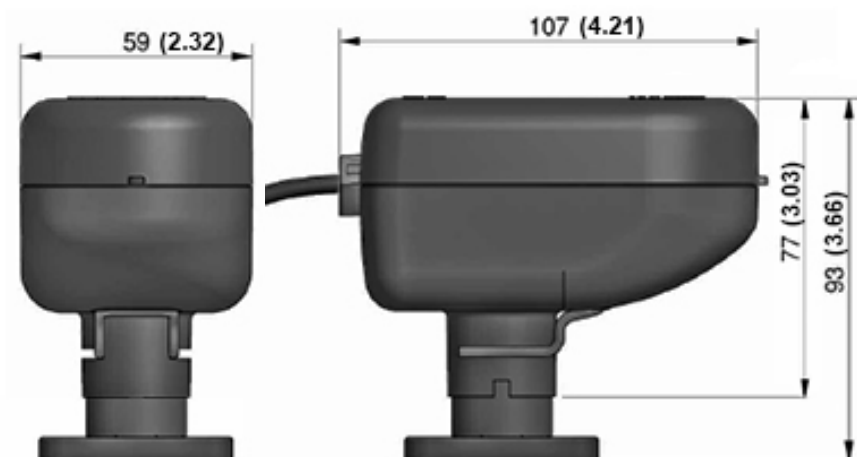
ORDERING CODES

Code	Power supply	Control Type	Running time (0°-90°)	Feedback type	UL approval
CT1AAN1	230 Vac 50/60 Hz	2 Wires	45 sec @ 50Hz 38 sec @ 60Hz	1 microswitch opened position & 1 output phase opened position	-
CT1BAN1	110 Vac 50/60 Hz	2 Wires	45 sec @ 50Hz 38 sec @ 60Hz		-
CT1CAN1	24 Vac 50/60 Hz	2 Wires	45 sec @ 50Hz 38 sec @ 60Hz		-
CT1ABN1	230 Vac 50/60 Hz	3 wires	35 sec @ 50Hz 30 sec @ 60Hz		-
CT1BBN1	110 Vac 50/60 Hz	3 wires	35 sec @ 50Hz 30 sec @ 60Hz		-
CT1CBN1	24 Vac 50/60 Hz	3 wires	35 sec @ 50Hz 30 sec @ 60Hz		-
CT1DCN0	24V DC	2/3 Wires	60 sec.	2 output phases	-
CT1FDN0	24V DC / AC ± 20% 50/60 Hz	Modulating 0-10Vdc	60 sec.	2 -10 Vdc	-

OPTIONAL MODELS ON REQUEST:

- 5Nm with 15 sec running time, Vac only
- Vdc 2/3 wires 30 sec running time
- 12 Vdc power supply, 2/3 wires 60 secs running time
- Different Input signal on modulating: 0(2)-10 Vdc, 0(4)-20 mA
- Modbus Communication (only with 24V AC/DC power supply)
- On/Off 3 positions (0°, 45° and 90°) (only with 12/24 V DC power supply)

DIMENSIONS MM (INCHES)

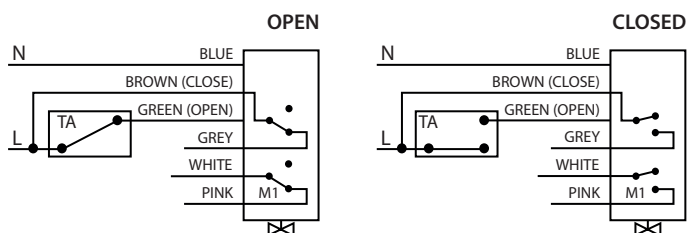


ISO 5211	L
F03	9 mm with adapter (0.35 inch)
F05	11 mm (0.43 inch)

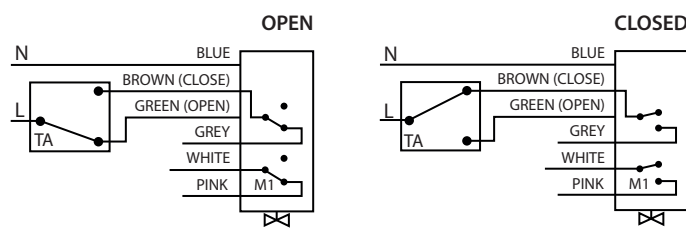


Wiring diagrams

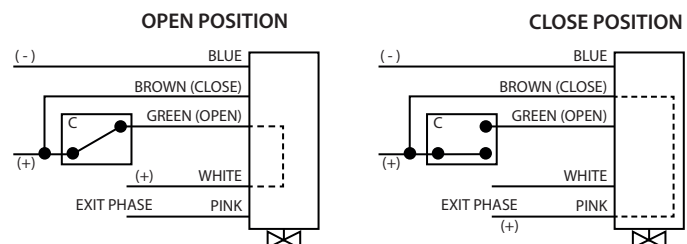
VAC MODELS 2 WIRES CONTROL



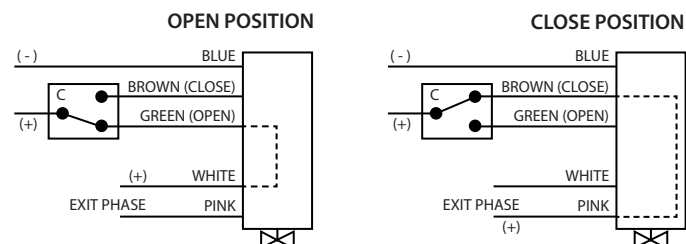
VAC MODELS 3 WIRES CONTROL



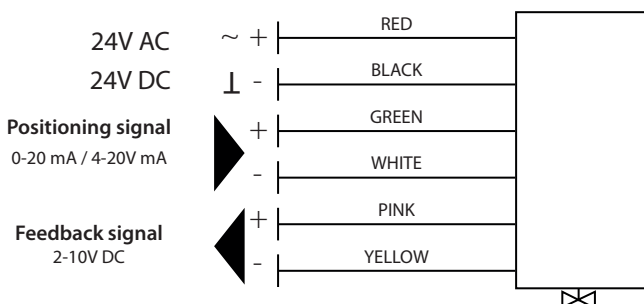
VDC MODELS 2 WIRES CONTROL



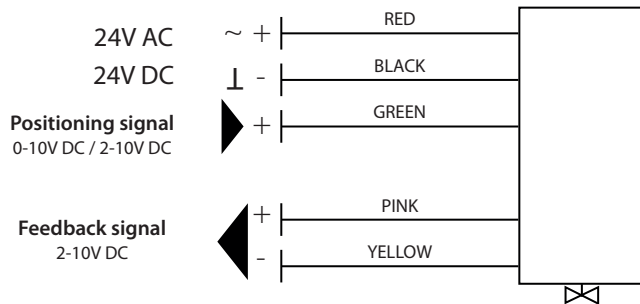
VDC MODELS 3 WIRES CONTROL



PROPORTIONAL MODELS 0-20MA / 4-20MA



PROPORTIONAL MODELS 0-10V DC / 2-10V DC



TECHNICAL SPECIFICATION

	2 wires Vac	3 wires Vac	2/3 wires Vdc	Modulating
Position indicator	Rotating arrow, indicating the position of the ball			
Power supply	230 V - 50/60 Hz	35 sec @ 50Hz 30 sec @ 60Hz	24Vdc	24V DC / AC ± 20% 50/60 Hz
	24 V - 50/60 Hz		12Vdc	
	110 V - 50/60 Hz			
Power cable length	80 cm (31.5 inches) (other sizes on request)			
Operating time (90°) and related starting torque	45 sec @ 50Hz 38 sec @ 60Hz	35 sec @ 50Hz 30 sec @ 60Hz	60 sec	60 sec
Absorbed power	3.9 VA		2 VA	3.5 W
Electrical capacity of the additional microswitch	1 A resistive - 250V		Not available	
Maximum noise (1 meter away)	40 dB (A)			
Operating ambient temperature	+5 °C ÷ +50°C (41°F ÷ 122°F)			
Degree of protection	IP 54 (Equivalent to NEMA3)			
Insulation class	II - double insulation III			
Outer shell material	Polyamide PA 6 - 30% glass fibers			
Certification	CE			



CT2

11 N.m (97.5 lb-in)



ORDERING CODES

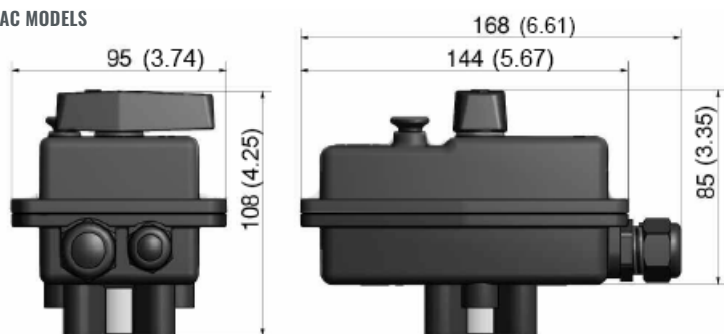
Code	Power supply	Control Type	Running time (0°-90°)	Feedback type	UL approval
CT2ACM2	230 Vac - 50/60 Hz	2/3 Wires	35 sec @ 50Hz 30 sec @ 60Hz	2 x Free auxiliary switches	•
CT2BCM2	110 Vac - 50/60 Hz	2/3 Wires	35 sec @ 50Hz 30 sec @ 60Hz		•
CT2CCM2	24 Vac - 50/60 Hz	2/3 Wires	35 sec @ 50Hz 30 sec @ 60Hz		•
CT2DCN2	24V DC	2/3 Wires	12 sec.	2 x Free auxiliary switches 2 -10 Vdc	-
CT2ADN0	230 Vac - 50/60 Hz	Proportional 0-10V	30 sec		-
CT2FDN0	24V DC / AC \pm 10% 50/60 Hz	Proportional 0-10V	30 sec.		-
CT2GCM2FC	100-230 Vac	2/3 Wires fail safe close	15 sec.		-

OPTIONAL MODELS ON REQUEST:

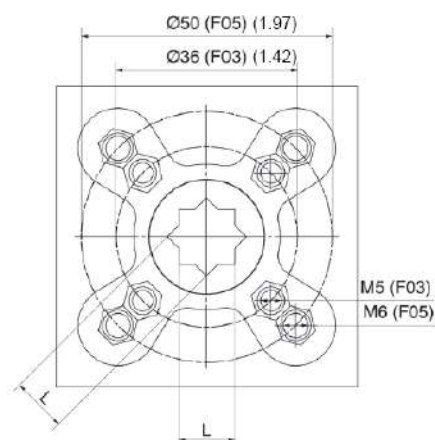
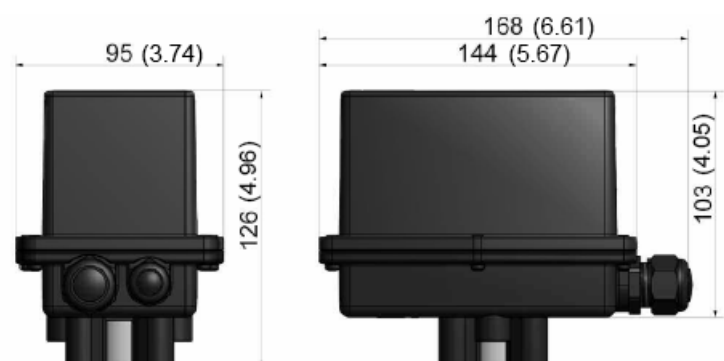
- 12 Vdc power supply
- Optional speed:
 - Vac only : 12 sec or 4 sec (5Nm)
 - Vdc only : 8 sec and 5 sec (11Nm);
3 sec (8Nm); 1 sec (5Nm)
- Proportional models: 2-10 Vdc, 0(4)-20 mA, Modbus
- Electronic fail safe (see pag 15)

DIMENSIONS MM (INCHES)

VAC MODELS



VDC MODELS

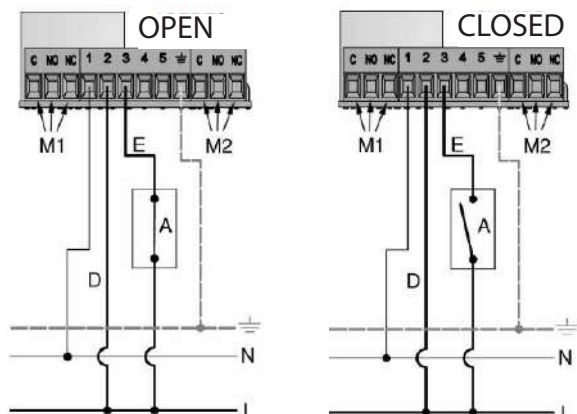


ISO 5211	L
F03	9 mm with adapter (0.35 inch)
F05	11 mm (0.43 inch)

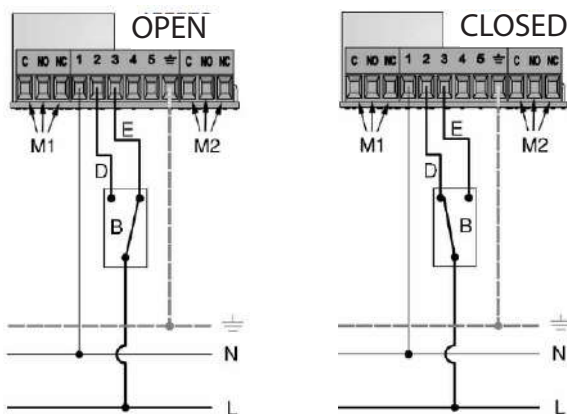


Wiring diagrams

2 WIRES



3 WIRES

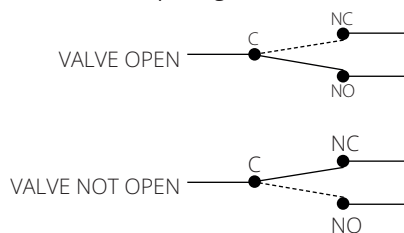


Vac models: Move the jumper to have the desired electrical connection.

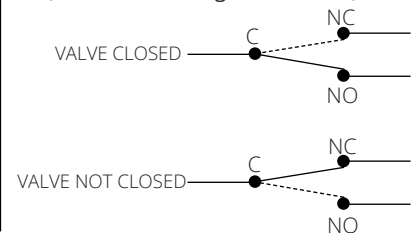
Vdc models: No jumper change is needed

Auxiliary switches

M1 (additional opening microswitch)



M2 (additional closing microswitch)



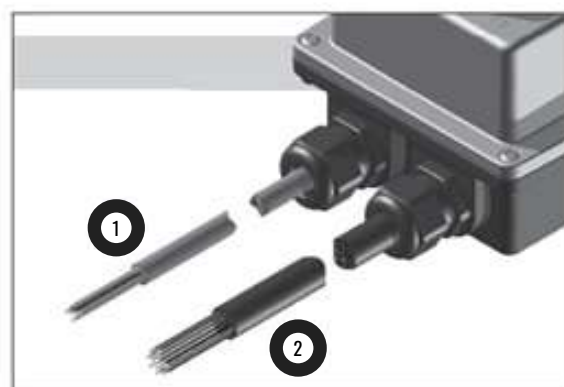
PROPORTIONAL CONTROL

1 Power Cord	Blue	~	12V DC
	Brown	+	24V AC/DC
	Black	+	100...240V AC*
	Green - Yellow	⊥	

*ELECTRICAL POWER SUPPLY ACCORDING TO THE SELECTED VERSION

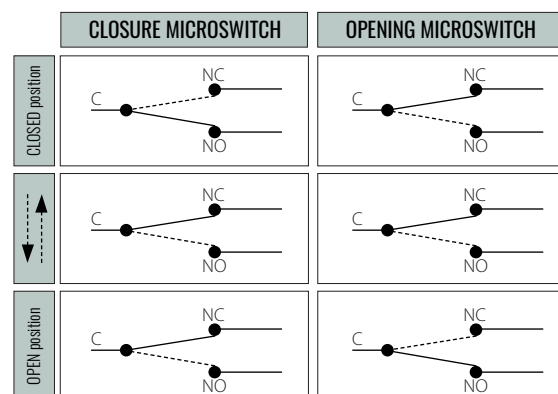
FUSE FAST 100 mA !

2 Signal Cable	White	GND	⚡
	Pink	▶ Feedback 2/10V	
	Grey	◀ PWM1 / PWM2	
	Green	◀ 0(2)...10V / 0(4)...20mA	
	Orange	RS 485 L+	Modbus-RTU **
	Yellow	RS 485 L-	** only for MODBUS version
	Blue	MICRO AUX	
	Brown		
	Red		
	Violet		
	Black		
	Light blue		



AUXILIARIES

OPENING	C	BROWN
	NC	BLUE
	NO	RED
CLOSING	C	BLACK
	NC	VIOLET
	NO	LIGHT BLUE





TECHNICAL SPECIFICATION

	ALL IN ONE - 2/3 wires Vac	Proportional	Fail safe
Position indicator and manual override	Manual lever with arrow indicating the position of the ball (not available for Vdc models)		
Power supply	230 V - 50/60 Hz	230 Vac - 50/60 Hz	100-230 Vac - 50/60 Hz
	110 V - 50/60 Hz	24V Vdc / Vac ± 10% 50/60 Hz	
	24 V - 50/60 Hz		
	24 Vdc		
	12 Vdc		
Electric connections	Via terminal board inside the actuator		
Operating time (90°)	35 sec @ 50Hz	30 sec	15 sec (20 sec fail safe)
	30 sec @ 60Hz		
	12 sec Vdc		
Absorbed power	7,5 VA (Vac 30/35 sec)		
	13 VA (Vac 1/12 sec)		
	10W		
	10W		
	1A (24 Vdc)		
	1,5A (12 Vdc)		
Maximum current supported by the additional microswitches	1 A resistive	max 30Vdc - 0,1 A resistive	max 30Vdc - 0,1 A resistive
Maximum noise (1 meter away)	35 dB (A) standard version	45 dB (A)	45 dB (A)
	47 dB (A) Vdc standard version		
Operating ambient temperature	-10 °C ÷ +50°C (14°F ÷ 122°F)		
Degree of protection	IP 67 (Equivalent to NEMA6)		
Outer case	Characterized by a ribbed shape made of glass-filled “polyarylamide” technopolymer, particularly robust and impermeable to humidity		
Certification	CE / UL (where applicable)		





CT3 - 22Nm

22 N.m (195 lb-in)



ORDERING CODES

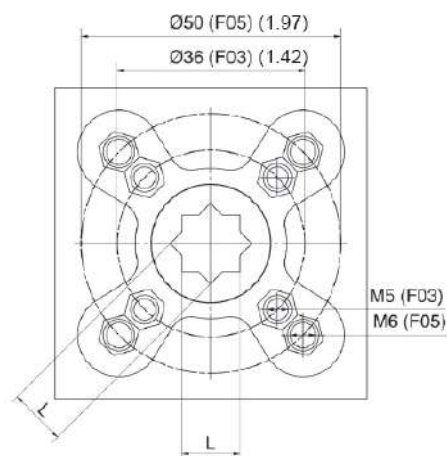
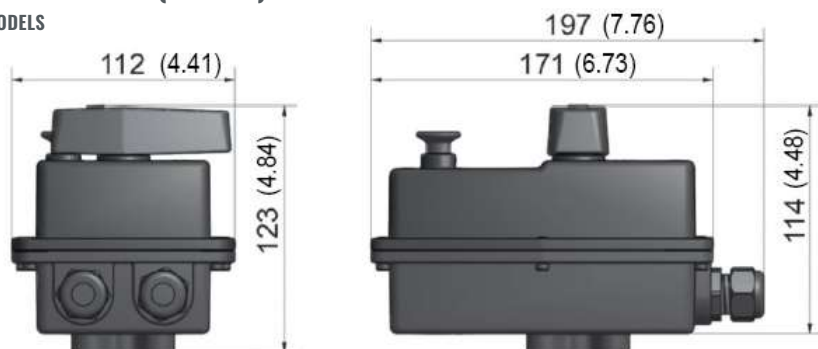
Code	Power supply	Control Type	Running time (0°-90°)	Feedback type	UL approval
CT3ACM2	230 Vac - 50/60 Hz	2/3 Wires	45 sec @ 50Hz 38 sec @ 60Hz	2 x Free auxiliary switches	•
CT3BCM2	110 Vac - 50/60 Hz	2/3 Wires	45 sec @ 50Hz 38 sec @ 60Hz		•
CT3CCM2	24 Vac - 50/60 Hz	2/3 Wires	45 sec @ 50Hz 38 sec @ 60Hz		•
CT3DCN2	24V DC	2/3 Wires	30 sec.	2 x Free auxiliary switches 2 -10 Vdc	-
CT3ADN0	230 Vac - 50/60 Hz	Proportional 0-10V	35 sec @ 60Hz		-
CT3FDN0	24V DC / AC ± 20% 50/60 Hz	Proportional 0-10V	30 sec.		-

OPTIONAL MODELS ON REQUEST:

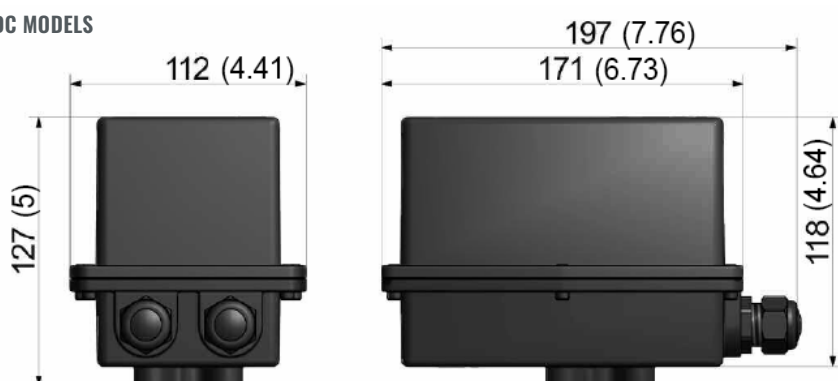
- 12 Vdc power supply
- Optional speed: - Vac only : 9 sec
- Vdc only: 10 sec
- Proportional models: 2-10 Vdc, 0(4)-20 mA, Modbus
- Electronic fail safe (see pag 15)

DIMENSIONS MM (INCHES)

VAC MODELS



VDC MODELS

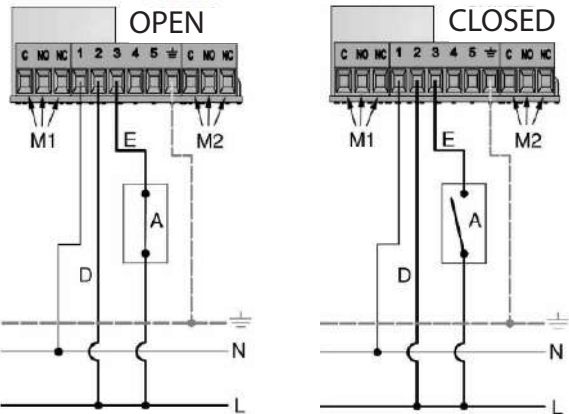


ISO 5211	L
F03	9 mm with adapter (0.35 inch)
F05	11 mm (0.43 inch)

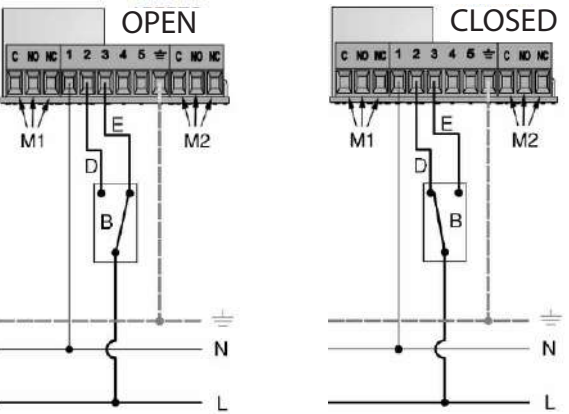


Wiring diagrams

2 WIRES CONTROL



3 WIRES CONTROL

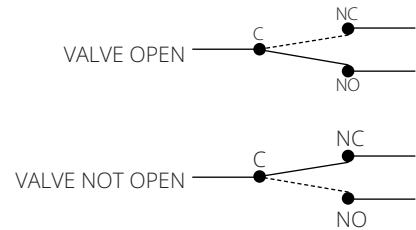


Vac models: Move the jumper to have the desired electrical connection.

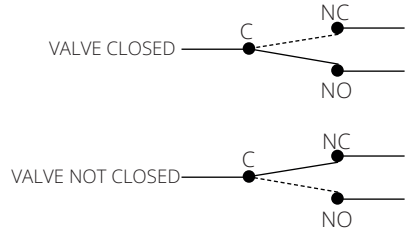
Vdc models: No jumper change is needed

Auxiliary switches

M1 (additional opening microswitch)




M2 (additional closing microswitch)

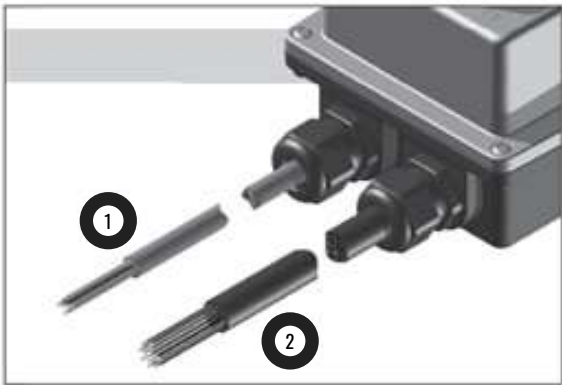


PROPORTIONAL CONTROL

1 Power Cord	Blue	12V DC
	Brown	24V AC/DC
	Black	100...240V AC*
	Green - Yellow	

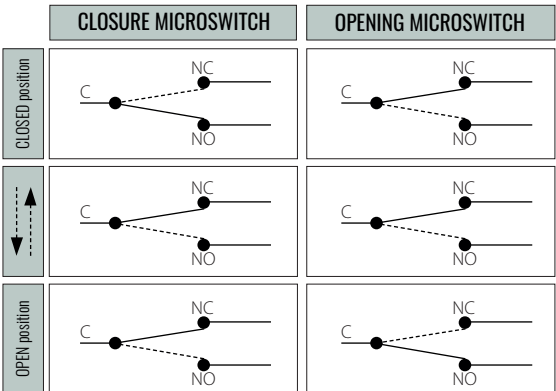
*ELECTRICAL POWER SUPPLY ACCORDING TO THE SELECTED VERSION

<div>2</div> Signal Cable	White	GND	
	Pink	▶ Feedback 2/10V	
	Grey	◀ PWM1 / PWM2	
	Green	◀ 0(2)...10V / 0(4)...20mA	
	Orange	RS 485 L+	Modbus-RTU **
	Yellow	RS 485 L-	
	** only for MODBUS version		



AUXILIARIES

OPENING	C	BLACK
	NC	LIGHT BLUE
	NO	VIOLET
CLOSING	C	BROWN
	NC	RED
	NO	BLUE





TECHNICAL SPECIFICATION

	ALL IN ONE - 2/3 wires Vac	Proportional
Position indicator and manual override	Manual lever with arrow indicating the position of the ball (not available for Vdc models)	
Power supply	230 V - 50/60 Hz	230 Vac - 50/60 Hz
	110 V - 50/60 Hz	24V Vdc / Vac ± 10% 50/60 Hz
	24 V - 50/60 Hz	
	24 Vdc	
Electric connections	Via terminal board inside the actuator	
Operating time (90°)	45 sec @ 50Hz Vac	35 sec Vac 30 sec Vdc
	38 sec @ 60Hz Vac	
	30 sec Vdc	
Absorbed power	24 VA (Vac)	25 W
	1A (24 Vdc)	
Maximum current supported by the additional microswitches	1 A resistive	max 30Vdc - 0,1 A resistive
Maximum noise (1 meter away)	42 dB (A) Vac standard version	60 dB (A)
	52 dB (A) Vdc standard version	
Operating ambient temperature	-10 °C ÷ +50°C (14°F ÷ 122°F)	
Degree of protection	IP 67 (Equivalent to NEMA6)	
Outer case	Characterized by a ribbed shape made of glass-filled “polyarylamide” technopolymer, particularly robust and impermeable to humidity	
Certification	CE / UL (where applicable)	





CT4

40 N.m (354 lb-in)



ORDERING CODES

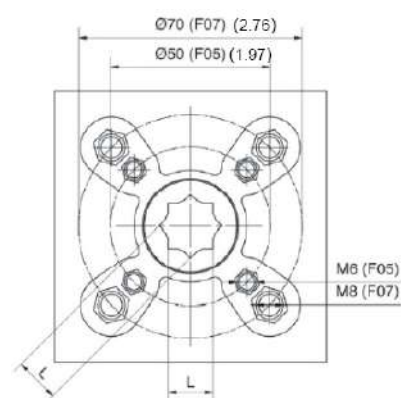
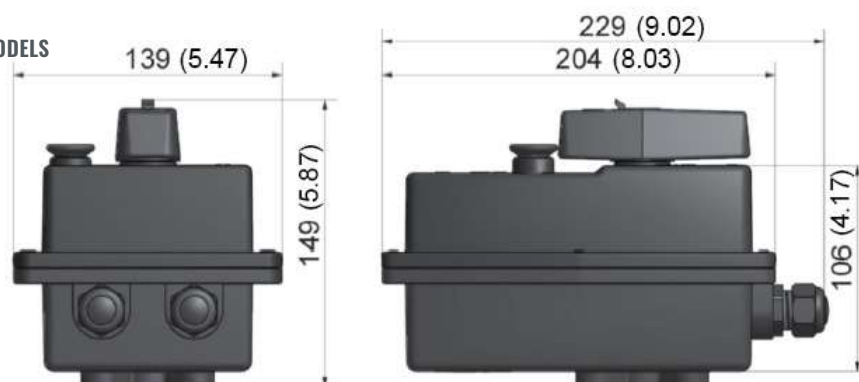
Code	Power supply	Control Type	Running time (0°-90°)	Feedback type	UL approval
CT4ACM2	230 Vac 50 Hz	2/3 Wires	55 sec.	2 x Free auxiliary switches	•
CT4BCM2	110 Vac 50 Hz	2/3 Wires	55 sec.		•
CT4CCM2	24 Vac 50 Hz	2/3 Wires	55 sec.		•
CT4HCM2	230 Vac 60Hz	2/3 Wires	45 sec.		-
CT4ICM2	110 Vac 60Hz	2/3 Wires	45 sec.		-
CT4LCM2	24 Vac 60Hz	2/3 Wires	45 sec.	2 x Free auxiliary switches 2 -10 Vdc	-
CT4HDN0	230 Vac - 50/60 Hz	Proportional 0-10V	30 sec @ 60Hz		-
CT4FDN0	24V DC / AC ± 20% 50/60 Hz	Proportional 0-10V	30 sec.		-

OPTIONAL MODELS ON REQUEST:

- 24Vdc and 12 Vdc power supply
- Optional speed: - Vac only : 14 sec and 32 sec
- Proportional models: 2-10 Vdc, 0(4)-20 mA, Modbus
- Electronic fail safe (see pag 15)

DIMENSIONS MM (INCHES)

VAC MODELS

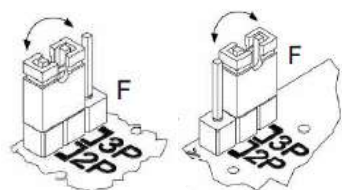
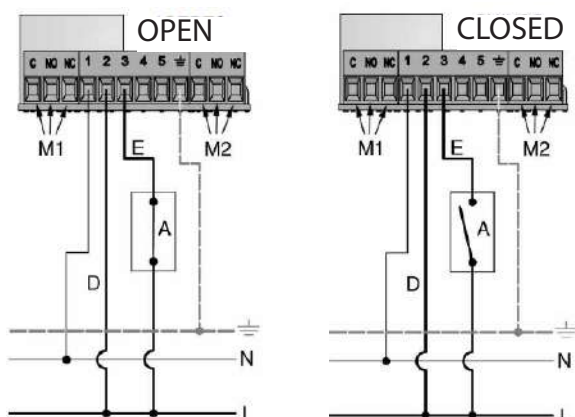


ISO 5211	L
F03	11 mm with adapter (0.43 inch)
F07	14 mm (0.55 inch)

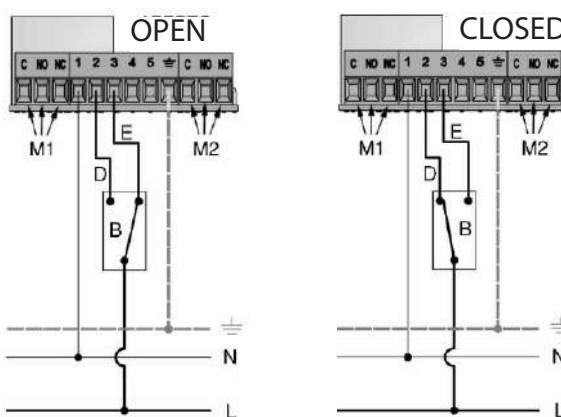


Wiring diagrams

2 WIRES CONTROL



3 WIRES CONTROL

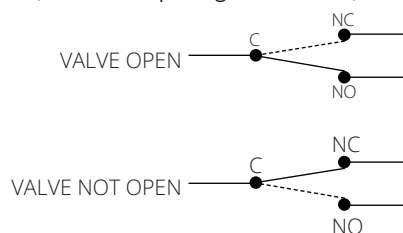


Vac models: Move the jumper to have the desired electrical connection.

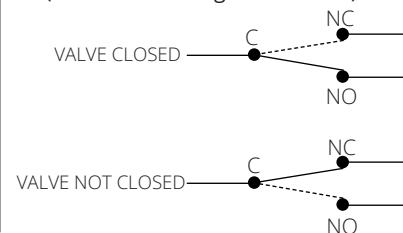
Vdc models: No jumper change is needed

Auxiliary switches

M1 (additional opening microswitch)



M2 (additional closing microswitch)



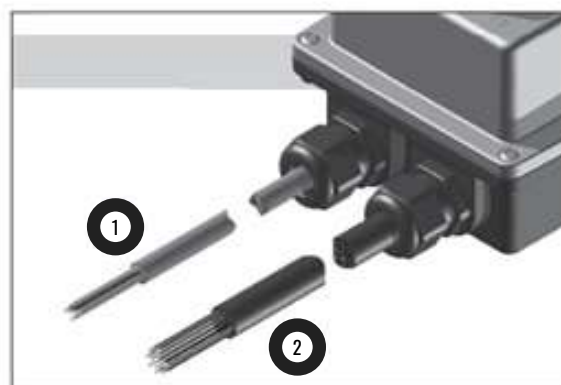
PROPORTIONAL CONTROL

1 Power Cord	Blue	12V DC
	Brown	24V AC/DC
	Black	100...240V AC*
	Green - Yellow	

* ELECTRICAL POWER SUPPLY ACCORDING TO THE SELECTED VERSION

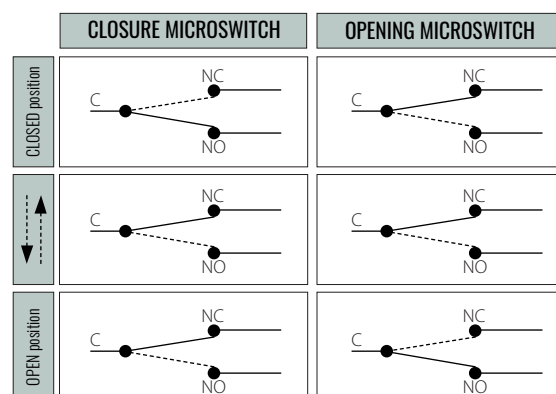
2 Signal Cable	White	GND
	Pink	Feedback 2/10V
	Grey	PWM1 / PWM2
	Green	0(2)...10V / 0(4)...20mA
	Orange	RS 485 L+
	Yellow	RS 485 L-
	Blue	MICRO AUX
	Brown	
	Red	
	Violet	
	Black	
	Light blue	

FUSE FAST 100 mA



AUXILIARIES

OPENING	C	BLACK
	NC	LIGHT BLUE
	NO	VIOLET
CLOSING	C	BROWN
	NC	RED
	NO	BLUE





TECHNICAL SPECIFICATION

	ALL IN ONE - 2/3 wires Vac	Proportional
Position indicator and manual override	Manual lever with arrow indicating the position of the ball	
Power supply	230 V - 50 Hz	230 Vac - 50/60 Hz
	110 V - 50 Hz	24V Vdc / Vac \pm 10% 50/60 Hz
	24 V - 50Hz	
	230 V - 60 Hz	
	110 V - 60 Hz	
	24 V - 60 Hz	
Electric connections	Via terminal board inside the actuator	
Operating time (90°)	55 sec @ 50Hz Vac	30 sec
	45 sec @ 60Hz Vac	
Absorbed power	24 VA (Vac)	25 W
Maximum current on the output phase at terminals 4 and 5	1 A resistive	-
Maximum current supported by the additional microswitches	1 A resistive	max 30Vdc - 0,1 A resistive
Maximum noise (1 meter away)	50 dB (A) standard version	65 dB (A)
Operating ambient temperature	-10 °C ÷ +50°C (14°F ÷ 122°F)	
Degree of protection	IP 67 (Equivalent to NEMA6)	
Outer case	Characterized by a ribbed shape made of glass-filled "polyarylamide" technopolymer, particularly robust and impermeable to humidity	
Certification	CE / UL (where applicable)	



Super capacitors electronic Fail Safe actuators

Using the SuperCaps technology the CT2, CT3 and CT4 actuators can store the necessary energy to drive open or close the valve in a safety position during an electrical power supply interruption. Fail safe open or close position in valves is crucial to prevent serious damages in critical applications such as coils freezing or steam exchangers overpressure. By default they are all provided with a 2-10 Vdc feedback, two auxiliary switches and 1m cable lenght.

ORDERING CODES

Code	Torque (Nm)	Power supply
CT2FCM2Fx	11	24Vdc - 24V 50/60 Hz
CT2GCM2Fx	11	100...240V 50/60 Hz
CT3FCM2Fx	22	24Vdc - 24V 50/60 Hz
CT3GCM2Fx	22	100...240V 50/60 Hz
CT4FCM2Fx	40	24Vdc - 24V 50/60 Hz
CT4GCM2Fx	40	100...240V 50/60 Hz

Note: X=O for Fail safe valve open; C for Fail Safe valve close X

TECHNICAL SPECIFICATION - FAIL SAFE MODELS

	CT2	CT3	CT4
Available power supply	24Vdc - 24V 50/60 Hz - 100...240V 50/60Hz		
Max. Running power consumption	10W	25W	25W
Power supply cable	1 m (40 in.) length AWG20		
Signal cable	1 m (40 in.) length AWG24		
Auxiliary switches rating	max 30V DC - 0.1 A	max 30V DC - 0.1 A	max 30V DC - 0.1 A
Nominal Torque	11 Nm	22 Nm	40 Nm
Available control type	On/off 3&2 wires - proportional		
Valve position feedback	2 -10V DC		
Manual Override	Manual lever with arrow indicating the position of the sphere		
Running Speed (90°)	30s		
Fail safe speed(90°)	20 s	26 s	30 s
Max Noise	45 dB (A)	60 dB (A)	65 dB (A)
Degree of protection	IP67		
SuperCaps recharging time	15 min (90°)	15 min (90°)	50 min (90°)
Operating ambient temperature	-10°C ÷ 50°C (14°F ÷ 122°F)		
Certification	CE / UL (where applicable)		

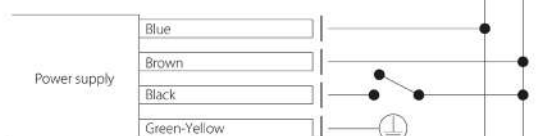
WIRING DIAGRAMS

ON/OFF MODELS

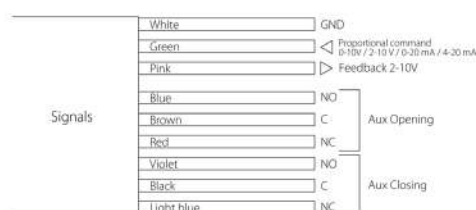
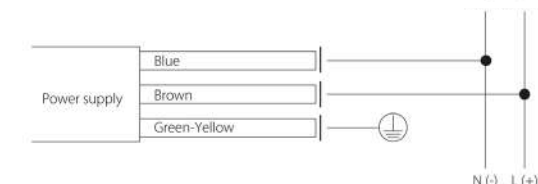
3 point control



2 point control






Proportional models



VALVES COMBINATION



s.64 Low Torque	code	size	ΔP	CT1 - 8Nm	CT2 - 11Nm	CT3 - 22Nm	CT4 - 40Nm
	S64FxxA	1"	0 ÷ 6 Bar (0 ÷ 87 PSI)	•	•		
	S64GxxA	1 ¼"		•	•		
	S64HxxA	1 ½"		•	•		
	S64LxxA	2"		•	•		
	code	size	ΔP	CT1 - 8Nm	CT2 - 11Nm	CT3 - 22Nm	CT4 - 40Nm
	S64FxxA	1"	6 ÷ 16 Bar (87 ÷ 232 PSI)	•	•		
	S64GxxA	1 ¼"		•	•		
	S64HxxA	1 ½"		•	•		
S64LxxA	2"			•			
s.64	code	size	ΔP	CT1 - 8Nm	CT2 - 11Nm	CT3 - 22Nm	CT4 - 40Nm
	S64Dxx	1/2"	0 ÷ 15 Bar (0 ÷ 217PSI)	•	•		
	S64Exx	3/4"		•	•		
	S64Fxx	1"		•	•		
	S64Gxx	1 ¼"			•		
	S64Hxx	1 ½"	15 ÷ 40 Bar (217 ÷ 580 PSI)				•
	S64Lxx	2"					•
	code	size	ΔP	CT1 - 8Nm	CT2 - 11Nm	CT3 - 22Nm	CT4 - 40Nm
	S64Dxx	1/2"	•	•			
	S64Exx	3/4"	•	•			
	S64Fxx	1"	•	•			
	S64Gxx	1 ¼"				•	
	S64Hxx	1 ½"					•
S64Lxx	2"					•	
s.65	code	size	ΔP	CT1 - 8Nm	CT2 - 11Nm	CT3 - 22Nm	CT4 - 40Nm
	S65Dxx	1/2"	0 ÷ 16 Bar (0 ÷ 232 PSI)	•	•		
	S65Exx	3/4"		•	•		
	S65Fxx	1"		•	•		
	S65Gxx	1 ¼"		•	•		
s.134	code	size	ΔP	CT1 - 8Nm	CT2 - 11Nm	CT3 - 22Nm	CT4 - 40Nm
	134Dxx	1/2"	0 ÷ 14 Bar (0 ÷ 203 PSI)	•	•		
	134Exx	3/4"		•	•		
	134Fxx	1"				•	
	134Gxx	1 ¼"				•	
	134Hxx	1 ½"					•
	134Lxx	2"					•
s.73 & s.76	code	size	ΔP	CT1 - 8Nm	CT2 - 11Nm	CT3 - 22Nm	CT4 - 40Nm
	S73Dxx	1/2"	0 ÷ 16 Bar (0 ÷ 232 PSI)		•	•	
	S73Exx	3/4"				•	
	S73Fxx	1"				•	
	S73Gxx	1 ¼"					•
	S73Hxx	1 ½"					•
	S73Lxx	2"					•
	code	size	ΔP	CT1 - 8Nm	CT2 - 11Nm	CT3 - 22Nm	CT4 - 40Nm
	S76Dxx	1/2"	0 ÷ 16 Bar (0 ÷ 232 PSI)	•	•	•	
	S76Exx	3/4"		•	•	•	
	S76Fxx	1"		•	•	•	
	S76Gxx	1 ¼"				•	
	S76Hxx	1 ½"				•	
S76Lxx	2"					•	





CH Actuator

High Torque electric actuator

The CH valve actuators are used on ball or butterfly valves.

This quarter turn actuators are available from 50 Nm to 400Nm. As standard, this actuator offers an IP67 ABS housing, dome position indicator, end of travel limit switches, manual override and an internal heater.

The new Series offers multi-voltage capability and failsafe functionality utilizing a super-capacitor back-up system.

The CH family provides the following output running torques:

Model	Nominal Torque
CH1	50 Nm (443 lb-in)
CH2	80 Nm (708 lb-in)
CH3	110 Nm (974 lb-in)
CH4	200 Nm (1770 lb-in)
CH5	400 Nm (3540 lb-in)

TECHNICAL FEATURES & BENEFITS:

- **Multiple ISO 5211 mountings.**

The CH Series Actuators are ready for direct attachment on valves providing two size ISO 5211 and an octagonal female drive output.

- **Dome style local visual indicator.**

A clearly visible indicator allows intuitive indication of the valve position.

- **Hand operation.**

by hexagonal wrench, supplied in clip under the actuator, it's possible to do open/close operation when no power is being applied.

- **Fully weatherproof to IP67.**

Enhances the range of application environments.

- **End of travel confirmation switches.**

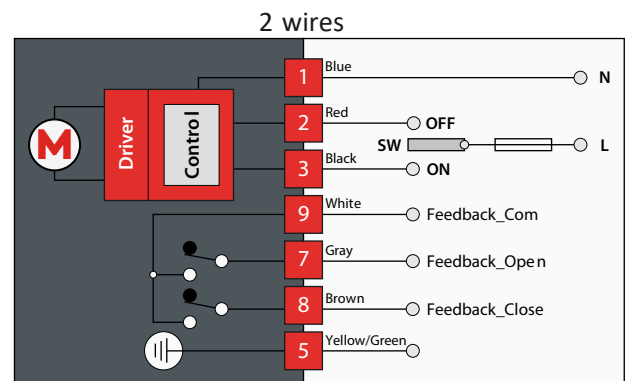
Provides line voltage capable switch up to 1 A Resistive.

- **Special models available.**

The CH family fits the customer needs extending the application coverage on request.



WIRING DIAGRAMS - ON/OFF MODELS





CH1

50 N.m (443 lb-in)

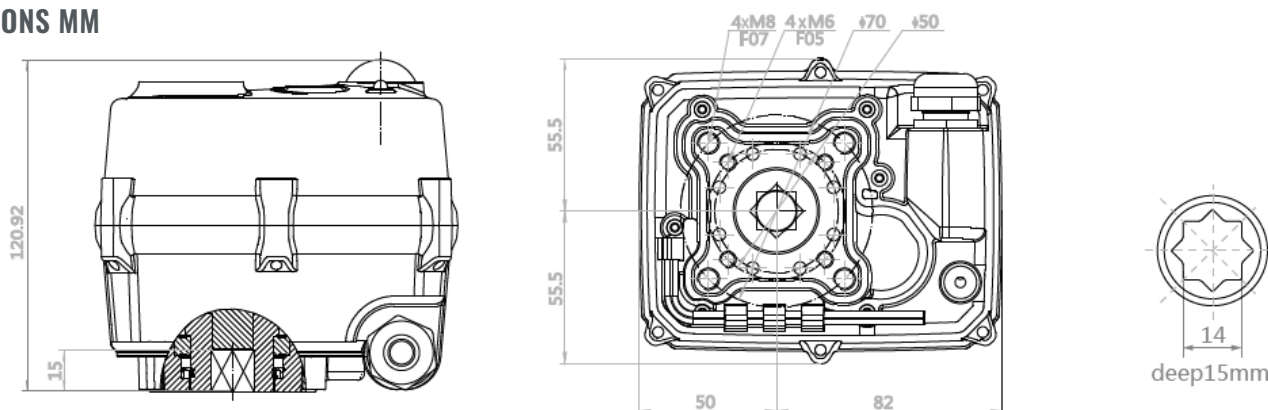
Available versions CH1 model				
Part number	Voltage	Function	Torque (Nm)	Torque (lb-in)
CH1FCM2	24VAC/DC	ON OFF	50 Nm	443 lb-in
CH1GCM2	95-265VAC	ON OFF	50 Nm	443 lb-in
CH1FCM2Fx	24VAC/DC	FAILSAFE	50 Nm	443 lb-in
CH1GCM2Fx	95-265VAC	FAILSAFE	50 Nm	443 lb-in
CH1GGM2	95-265VAC	4-20MA	50 Nm	443 lb-in
CH1FGM2	24VAC/DC	4-20MA	50 Nm	443 lb-in

TECHNICAL SPECIFICATION

	ON-OFF ELECTRIC ACTUATOR		ON-OFF FAILSAFE ELECTRIC ACTUATOR	
Ordering code	CH1GCM2	CH1FCM2	CH1GCM2Fx*	CH1FCM2Fx*
Rated voltage	95-265VAC/DC (50/60Hz)	24VAC/DC (50/60Hz)	95-265VAC/DC (50/60Hz)	24VAC/DC (50/60Hz)
Voltage range	AC: 95-265V DC: 100-300V	AC: 18-26V DC: 22-28V	AC: 95-265V DC: 100-300V	AC: 18-26V DC: 22-28V
Consumption	25 W	25 W	40 W	40 W
Peak current	6.25 A	6.25 A	6.25 A	6.25 A
Fuse	2 A	4 A	4 A	4 A
Maximum break Torque Nm	60 Nm		60 Nm	
Manual operation	Yes, by hexagonal wrench (supplied in clip) when no power is being applied.			
Run time	≈ 10 sec			
Operating frequency	Not continuous, allow ≥ 1 minute between cycles			
Position confirmation	Mechanically driven dome style visual 2 colour indicator			
Mounting restriction	Do not install underslung/upside down. Can install upright horizontally or vertically.			
End position indication	Micro-switches operated by adjustable internal cams , set slightly ahead of the final motor stop position.			
ISO 5211	F05 & F07			
Working angle	Factory set at 90° ± 2°, maximum angle of rotation 360° unless multi turn series.			
Female drive	14mm x 15mm deep			
Ingress protection	IP67			
Max media temperature	≤ 80° C			
Ambient temperature	-20° C to 60° C			
Non-operating temperature	-40° C to 80° C			
Ambient humidity	5-95% RH non-condensing			
Housing	Plastic (ABS) cover			

*Note: x = O Failsafe Valve Open; C Failsafe Valve Closed

DIMENSIONS MM



CH 2

80 N.m (708 lb-in)

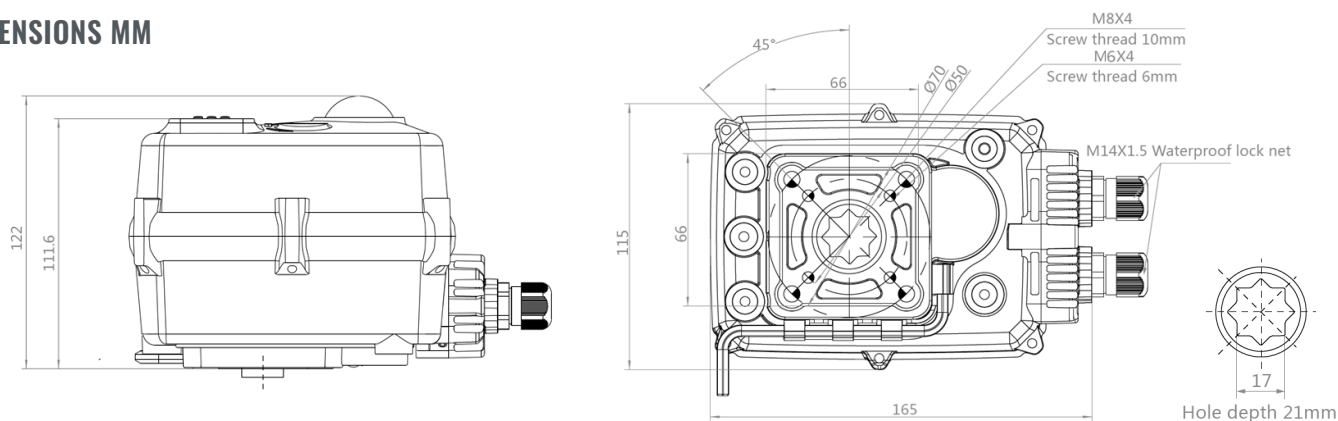
Available versions CH2 model				
Part number	Voltage	Function	Torque (Nm)	Torque (lb-in)
CH2FCM2	24VAC/DC	ON OFF	80 Nm	708 lb-in
CH2GCM2	95-265VAC	ON OFF	80 Nm	708 lb-in
CH2FCM2Fx	24VAC/DC	FAILSAFE	60 Nm	531 lb-in
CH2GCM2Fx	95-265VAC	FAILSAFE	60 Nm	531 lb-in
CH2GGM2	95-265VAC	4-20MA	80 Nm	708 lb-in
CH2FGM2	24VAC/DC	4-20MA	80 Nm	708 lb-in

TECHNICAL SPECIFICATION

	ON-OFF ELECTRIC ACTUATOR		ON-OFF FAILSAFE ELECTRIC ACTUATOR	
Ordering code	CH2GCM2	CH2FCM2	CH2GCM2Fx*	CH2FCM2Fx*
Rated voltage	95-265VAC/DC (50/60Hz)	24VAC/DC (50/60Hz)	95-265VAC/DC (50/60Hz)	24VAC/DC (50/60Hz)
Voltage range	AC: 95-265V DC: 100-300V	AC: 18-26V DC: 22-28V	AC: 95-265V DC: 100-300V	AC: 18-26V DC: 22-28V
Consumption	60 W	60 W	60 W	60 W
Peak current	3.75 A	3.75 A	3.75 A	3.75 A
Fuse	4 A	4 A	4 A	4 A
Maximum break Torque Nm	90 Nm	90 Nm	90 Nm	90 Nm
Manual operation	Yes, by hexagonal wrench (supplied in clip) when no power is being applied.			
Run time	≈ 10 sec			
Operating frequency	Not continuous, allow ≥ 1 minute between cycles			
Position confirmation	Mechanically driven dome style visual 2 colour indicator			
Mounting restriction	Do not install underslung/upside down. Can install upright horizontally or vertically.			
End position indication	Micro-switches operated by adjustable internal cams , set slightly ahead of the final motor stop position.			
ISO 5211	F05 & F07			
Working angle	Factory set at 90° ± 2°, maximum angle of rotation 360° unless multi turn series.			
Female drive	17mm x 21mm deep			
Ingress protection	IP67			
Max media temperature	≤ 80° C			
Ambient temperature	-20° C to 60° C			
Non-operating temperature	-40° C to 80° C			
Ambient humidity	5-95% RH non-condensing			
Housing	Plastic (ABS) cover			

***Note:** x=O Failsafe Valve Open; C Failsafe Valve Closed

DIMENSIONS MM





CH 3

110 N.m (974 lb-in)

Available versions CH3 model

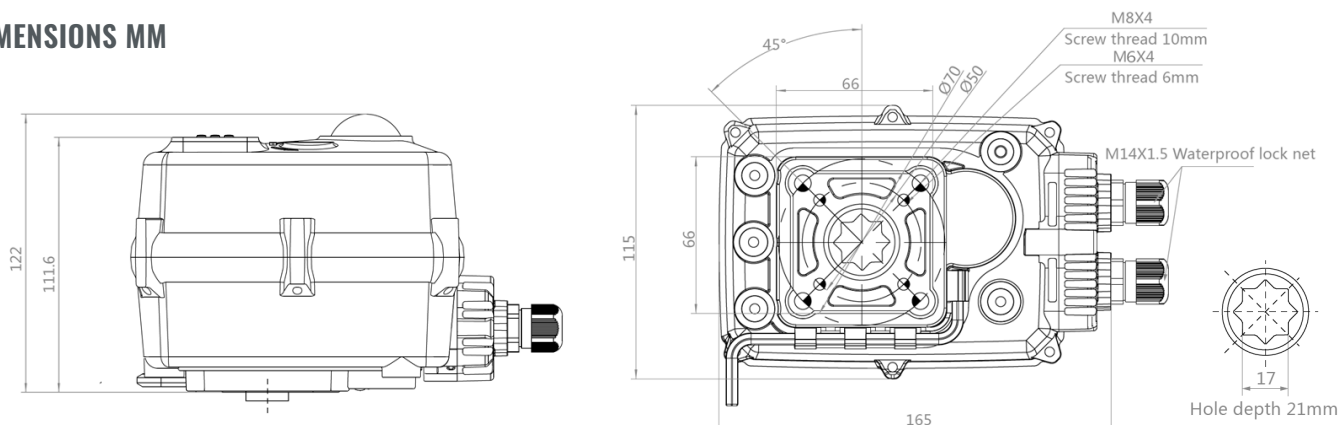
Part number	Voltage	Function	Torque (Nm)	Torque (lb-in)
CH3FCM2	24VAC/DC	ON OFF	110 Nm	974 lb-in
CH3GCM2	95-265VAC	ON OFF	110 Nm	974 lb-in
CH3FCM2Fx	24VAC/DC	FAILSAFE	90 Nm	796 in-lb
CH3GCM2Fx	95-265VAC	FAILSAFE	90 Nm	796 in-lb
CH3GGM2	95-265VAC	4-20MA	110 Nm	974 lb-in
CH3FGM2	24VAC/DC	4-20MA	110 Nm	974 lb-in

TECHNICAL SPECIFICATION

	ON-OFF ELECTRIC ACTUATOR		ON-OFF FAILSAFE ELECTRIC ACTUATOR	
Ordering code	CH3GCM2	CH3FCM2	CH3GCM2Fx*	CH3FCM2Fx*
Rated voltage	95-265VAC/DC (50/60Hz)	24VAC/DC (50/60Hz)	95-265VAC/DC (50/60Hz)	24VAC/DC (50/60Hz)
Voltage range	AC 95-265V / DC 100-300V	AC 20-28 / DC 22-32V	AC 95-265V / DC 100-300V	AC 20-28 / DC 22-32V
Consumption	100 W	100 W	100 W	100 W
Peak current	6.25 A	6.25 A	6.25 A	6.25 A
Fuse	2 A	10 A	2 A	10 A
Maximum break Torque Nm	140 Nm		140 Nm	
Manual operation	Yes, by hexagonal wrench (supplied in clip) when no power is being applied Run time			
Run time	≈ 10 sec			
Operating frequency	AC not continuous, 75% duty cycle but recommend allowing ≥1 min between cycles. DC is continuous.			
Position confirmation	Mechanically driven dome style visual 2 color indicator			
Mounting restriction	None, it can be mounted at any angle. Leave space for manual operation and electrical connection.			
End position indication	Micro-switches operated by adjustable internal cams , set slightly ahead of the final motor stop position.			
ISO 5211	F05 & F07			
Working angle	Factory set at 90° ± 2°			
Female drive	17mm octagon x 21mm deep			
Ingress protection	IP67			
Max media temperature	≤ 80° C			
Ambient temperature	-20° C to 60° C			
Non-operating temperature	-40° C to 80° C			
Ambient humidity	5-95% RH non-condensing			
Housing	Plastic (ABS) cover			

*Note: x=O Failsafe Valve Open; C Failsafe Valve Closed

DIMENSIONS MM



CH 4

200 N.m (1770 lb-in)

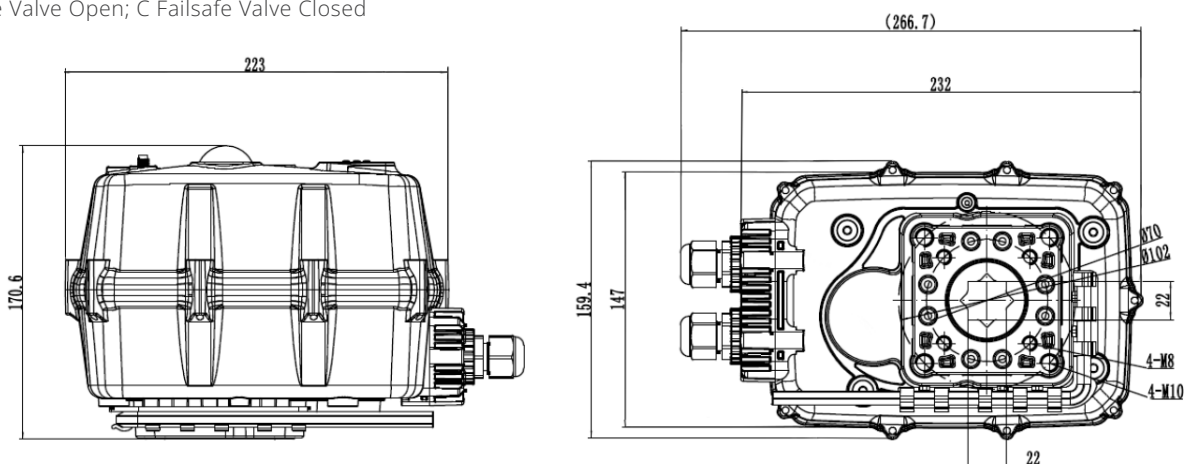
Available versions CH4 model				
Part number	Voltage	Function	Torque	Torque (lb-in)
CH4FCM2	24VAC/DC	ON OFF	200 Nm	1770 lb-in
CH4GCM2	95-265VAC	ON OFF	200 Nm	1770 lb-in
CH4FCM2Fx	24VAC/DC	FAILSAFE	200 Nm	1770 lb-in
CH4GCM2Fx	95-265VAC	FAILSAFE	200 Nm	1770 lb-in
CH4GGM2	95-265VAC	4-20MA	200 Nm	1770 lb-in
CH4FGM2	24VAC/DC	4-20MA	200 Nm	1770 lb-in

TECHNICAL SPECIFICATION

	ON-OFF ELECTRIC ACTUATOR		ON-OFF FAILSAFE ELECTRIC ACTUATOR	
Ordering code	CH4GCM2	CH4FCM2	CH4GCM2Fx*	CH4FCM2Fx*
Rated voltage	95-265VAC/DC (50/60Hz)	24VAC/DC (50/60Hz)	95-265VAC/DC (50/60Hz)	24VAC/DC (50/60Hz)
Voltage range	AC: 95-265V DC: 100-300V	AC: 18-26V DC: 22-28V	AC: 95-265V DC: 100-300V	AC: 18-26V DC: 22-28V
Consumption	120 W	120 W	150 W	150 W
Peak current	7.5 A	7.5 A	7.5 A	7.5 A
Fuse	10 A	10 A	10 A	10 A
Maximum break Torque Nm	240 Nm		240 Nm	
Manual operation	Yes, by hexagonal wrench (supplied in clip) when no power is being applied. Must engage declutch button on cover first.			
Run time	≈ 25 sec			
Operating frequency	Not continuous, allow ≥ 1 minute between cycles			
Position confirmation	Mechanically driven dome style visual 2 colour indicator			
Mounting restriction	Do not install underslung/upside down. Can install upright horizontally or vertically.			
End position indication	Micro-switches operated by adjustable internal cams , set slightly ahead of the final motor stop position.			
ISO 5211	F07 & F10			
Working angle	Factory set at 90° ± 2°, maximum angle of rotation 360° unless multi turn series.			
Female drive	22mm x 27mm deep			
Ingress protection	IP67			
Max media temperature	≤ 80° C			
Ambient temperature	-20° C to 60° C			
Non-operating temperature	-40° C to 80° C			
Ambient humidity	5-95% RH non-condensing			
Housing	Plastic (ABS) cover			

*Note: x=O Failsafe Valve Open; C Failsafe Valve Closed

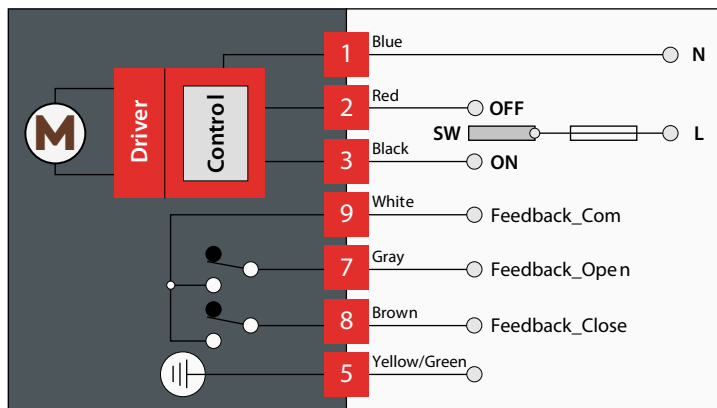
DIMENSIONS MM



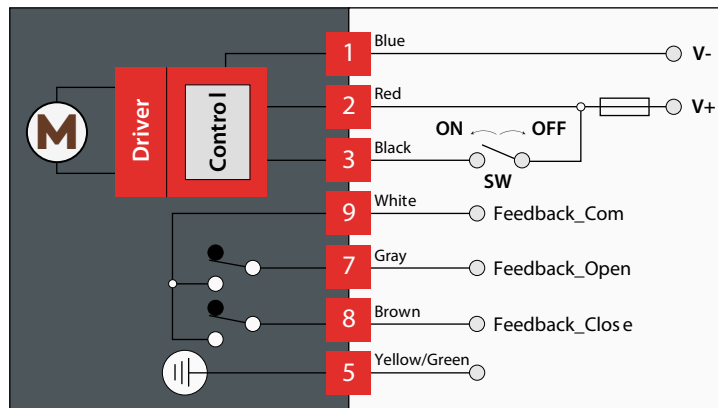
WIRING DIAGRAMS

On/Off models


2 wires




3 wires



VALVES COMBINATION

s.84 AM	code	size	ΔP	CH1 - 50Nm	CH2 - 80Nm	CH3 - 110Nm	CH4 - 200Nm	CH5 - 400Nm
	S84L00AM	2 1/2"	0 ÷ 15 Bar 0 ÷ 200 PSI	•				
	S84M00AM	3"				•		
	S84N00AM	4"					•	
	code	size	ΔP	CH1 - 50Nm	CH2 - 80Nm	CH3 - 110Nm	CH4 - 200Nm	CH5 - 400Nm
	S84L00AM	2 1/2"	15 ÷ 30 Bar 200 ÷ 450 PSI			•		
	S84M00AM	3"					•	
	S84N00AM	4"						•

s.95 AM	code	size	ΔP	CH1 - 50Nm	CH2 - 80Nm	CH3 - 110Nm	CH4 - 200Nm	CH5 - 400Nm
	S95L41AM	2 1/2"	0 ÷ 15 Bar 0 ÷ 200 PSI	•				
	S95M41AM	3"				•		
	S95N41AM	4"					•	
	code	size	ΔP	CH1 - 50Nm	CH2 - 80Nm	CH3 - 110Nm	CH4 - 200Nm	CH5 - 400Nm
	S95L41AM	2 1/2"	15 ÷ 30 Bar 200 ÷ 450 PSI			•		
	S95M41AM	3"					•	
	S95N41AM	4"						•





EA

Pneumatic actuator

The **EA actuators** series is designed for quarter turn applications on **RUB** ball valves in a compact and lightweight design. They can be supplied single (spring return) or double acting with a wide range of output torques offering a complete valve automation solution.

EA actuator has a patented guide bar which keeps the rack and pinion gear teeth in perfect engagement in all directions of operations. The contact between the teeth is pure rolling contact – no rubbing or friction – which means minimum wear and long cycle life.



Superior appearance and better corrosion resistance. It has a dense jet black anodized finish which makes the EA line suitable for indoor and outdoor applications.

Actuators are designed in compliance with the following standards:

- ISO 5211 - Actuator to Valve Interface Standard
- VDI/VDE 3845 - Standard for Namur mounting of accessories (switchboxes, solenoid valves, positioners)
- ATEX - Explosive Atmosphere Directive (2014/34/EU)
- PED - Pressure Equipment Directive (97/23/CE)

TECHNICAL FEATURES

- ISO 5211 direct mount on valve
- Indoor or outdoor installation
- Pilot ring for perfect alignment of shaft and stem
- Nickel plated steel shaft
- Stainless steel fasteners
- High tensile long life return springs
- Visual position indicator
- Fast field conversion between double acting and spring return, fail open or fail closed
- Ambient and operating temperature range: -30°C (-22°F) / +100°C (+212°F)
- NAMUR pads for direct mount of solenoid and limit switch
- Extruded aluminum body hard anodized cylinder bore rock hard and glass smooth

Ask for additional information on the whole range of **BONOMI INDUSTRIES** products and consult with your supplier for special applications.



ORDERING CODES:

Code	ISO5211 Flange	Square shaft	Code	ISO5211 Flange	Square shaft
EAx-1	F03	9 mm	EAx-1	F03	0.35 inch
EAx-2	F03/05	9 mm	EAx-2	F03/05	0.35 inch
EAx-2A	F03/05	11 mm	EAx-3	F05/07	0.55 inch
EAx-2B	F04	11 mm	EAx-4	F05/07	0.55 inch
EAx-3	F05/07	14 mm	EAx-5	F05/07	0.67 inch
EAx-4	F05/07	14 mm	EAx-6	F07/10	0.67 inch
EAx-5	F05/07	17 mm	EAx-7	F07/10	0.87 inch
EAx-6	F07/10	17 mm	EAx-9	F10/12	1.06 inch
EAx-7	F07/10	22 mm	EAx-10	F14	1.42 inch
			EAx-12	F16	1.81 inch

Note for code:

x=2 for metric threads; 4 for Imperial threads

ACCESSORIES

- Limit switch box
- Solenoid valves
- Visual position indicator
- Link kit
- Springs



Limit switch box



Solenoid valve



Springs



Link kit



Visual position indicator

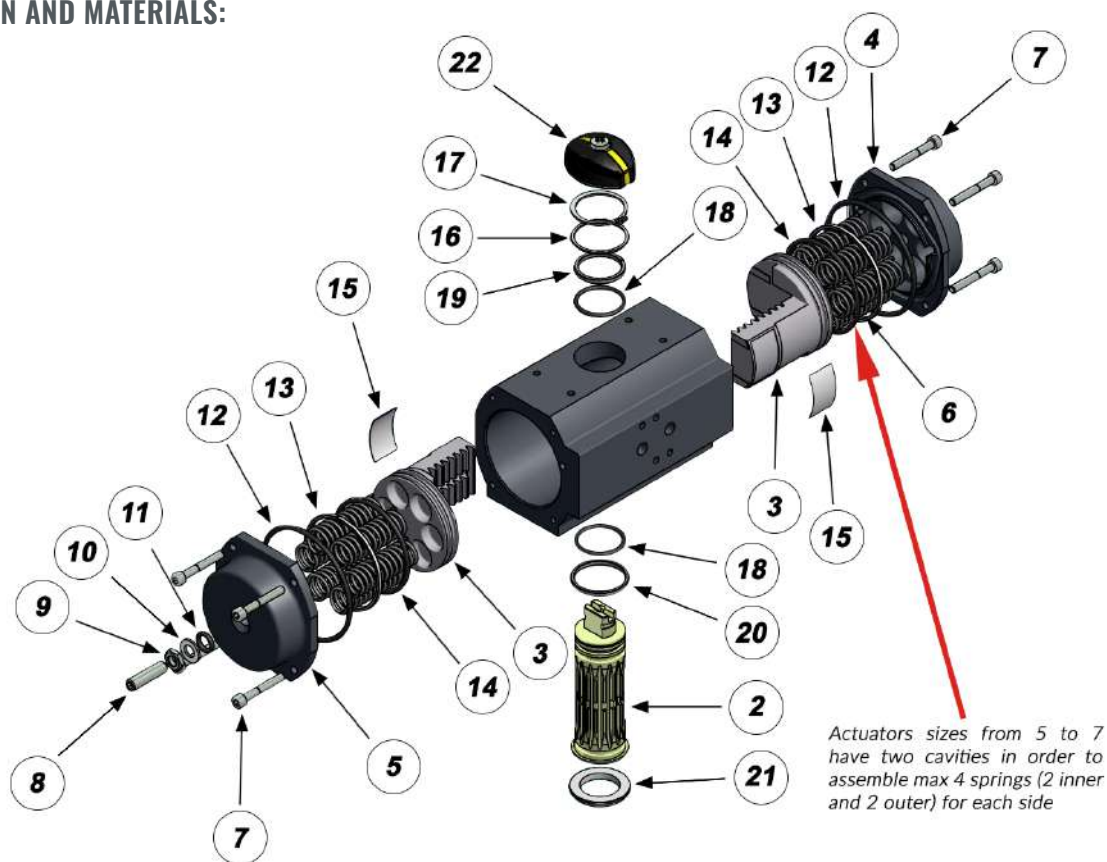


Solenoid Valve Code	Description
AD-00001	AD-1 (UCI) COMPLETE
AD-00002	AD-1 DUAL COIL 120 VAC SOLENOID
AD-00003	SOLENOID VLV AD-1 5/2 3/2 110 VAC
AD-00009	COILS 12 DC (28)
AD-00012	COILS 24AC (16)
AD-00013	COILS 24 DC (12)
AD-00015	SINGLE PILOT SOLENOID
AD-00016	AD-1 DUAL COIL 24 AC SOLENOID
AD-00017	AD-1 (UCI) COMPLETE COIL 24 DC
AD-00018	AD-1 (UCI) COMPLETE COIL 24 AC
AD-00019	SOLENOID VLV AD-1 5/2 3/2 24 VAC
AD-00020	COILS 220 VAC



Auxiliary switches Code	Description
EA2-LS	Auxiliary switches box

CONSTRUCTION AND MATERIALS:



BILL OF MATERIALS

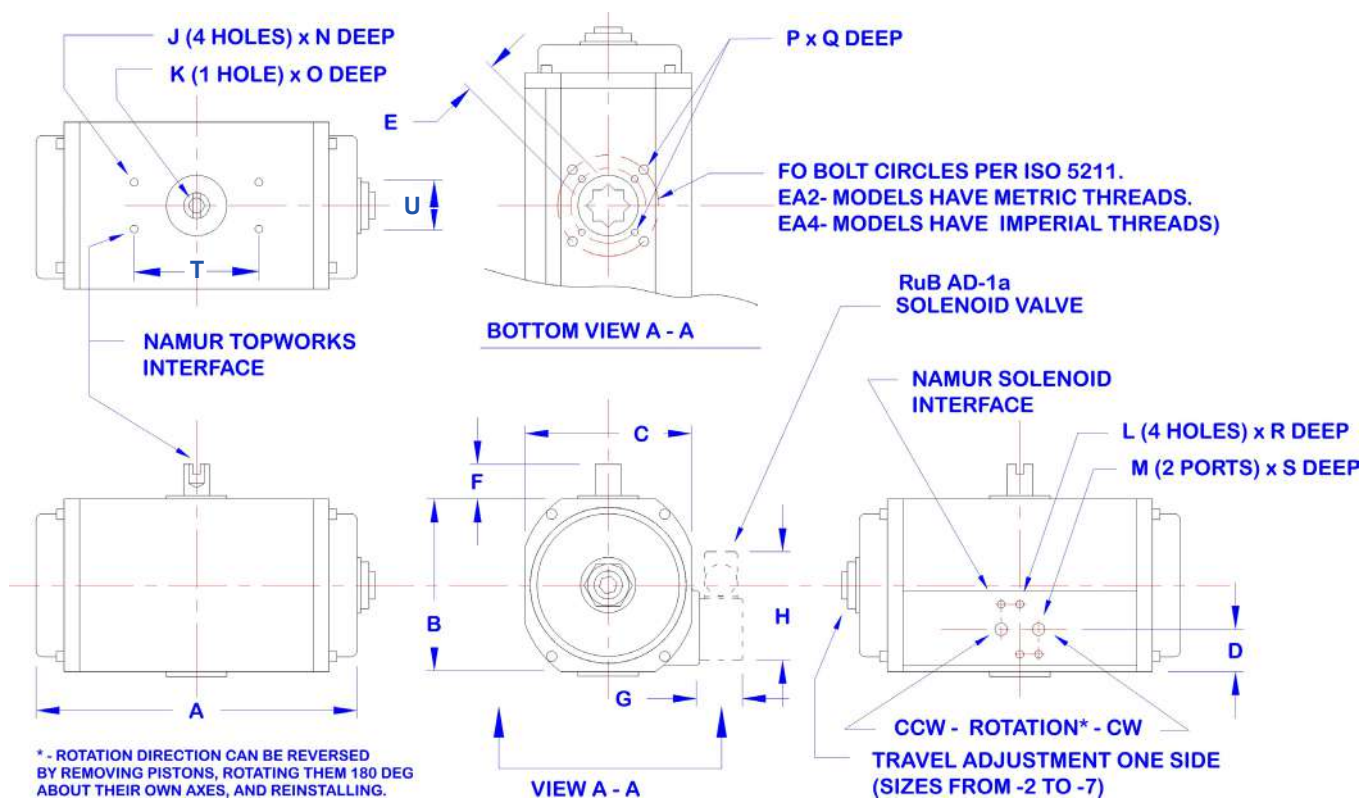
EA-4 is shown. Smaller sizes have similar construction except EA-1 that has Nylon endcaps and pistons

	Part description	Q.ty	Material
1	Body	1	Anod, aluminum
2	Shaft	1	Steel - zinc plated
3	Piston	2	Aluminum
4	End-cap	1	Anod, aluminum
5	End-cap (stop bolt)	1	Anod, aluminum
6	Spring	12 Max	Cr-Si steel
7	Cap bolt	8	St steel
8	Stop bolt	1	Hi tensile steel
9	Stop bolt nut	1	Hi tensile steel
10	Washer	1	Polyethylene
11	O-ring (end stop)	1	NBR
12	O-ring (end cover)	2	NBR
13	Piston ring	2	POM**
14	Piston ring	2	NBR
15	Wear pad	2	POM**
16	Shaft washer	1	Polyethylene
17	Snap ring	1	Steel
18	O-ring (drive shaft)	2	NBR
19	Shaft bearing upper	1	POM**
20	Shaft bearing lower	1	POM**
21	Alignment ring	1	POM**
22	Indicator	1	Nylon

** Polyoxymethylene commonly "Delrin"



DIMENSIONS:



Size	Metric system - mm																				
	F0	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U
1	F03	103	45	51	22,5	9	20	26	67	M5	M6	M5	G1/8	5	12	M5	8	8	7	80	30
2	F03/05	150	70	70	23	9	20	26	67	M5	M6	M5	G1/8	8	12	M5 / M6	8 / 10	8	10	80	30
2A	F03/05	150	70	70	23	11	20	26	67	M5	M6	M5	G1/8	8	12	M5 / M6	8 / 10	8	10	80	30
2B	F04	150	70	70	23	11	20	26	67	M5	M6	M5	G1/8	8	12	M5 / M6	8 / 10	8	10	80	30
3	F05/07	187	87	91	34,5	14	20	26	67	M5	M6	M5	G1/8	8	12	M6 / M8	10 / 13	8	10	80	30
4	F05/07	206	118	113	29,5	14	20	26	67	M5	M6	M5	G1/8	8	12	M6 / M8	10 / 13	8	10	80	30
5	F05/07	194	118,5	121	29,5	17	20	26	67	M5	M6	M5	G1/4	5	12	M6 / M8	10 / 10	8	12	80	30
6	F07/10	218	140,5	136,5	29,5	17	20	26	67	M5	M6	M5	G1/4	5	12	M8 / M10	10 / 16	8	12	80	30
7	F07/10	266	166,5	156	30	22	20	26	67	M5	M6	M5	G1/4	5	12	M8 / M10	13 / 16	8	12	80	30

Size	Imperial system - inch																			
	ISO5211	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	
1	F03	4.06	1.77	2.01	0.89	0.35	0.79	1.02	2.64	10-32	M6	10-32	1/8 NPT	0.20	0.47	10-32	0.31	0.31	0.28	
2	F03/05	5.91	2.76	2.76	0.91	0.35	0.79	1.02	2.64	10-32	M6	10-32	1/8 NPT	0.31	0.47	10-32 / 1/4"-20	0.31 / 0.39	0.31	0.39	
3	F05/07	7.36	3.43	3.58	1.36	0.55	0.79	1.02	2.64	10-32	M6	10-32	1/8 NPT	0.31	0.47	1/4"-20 / 5/16"-18	0.39 / 0.51	0.31	0.39	
4	F05/07	8.11	4.65	4.45	1.16	0.55	0.79	1.02	2.64	10-32	M6	10-32	1/8 NPT	0.31	0.47	1/4"-20 / 5/16"-18	0.39 / 0.51	0.31	0.39	
5	F05/07	7.64	4.67	4.76	1.16	0.67	0.79	1.02	2.64	10-32	M6	10-32	1/4 NPT	0.20	0.47	1/4"-20 / 5/16"-18	0.47 / 0.47	0.31	0.50	
6	F07/10	8.58	5.53	5.37	1.16	0.67	0.79	1.02	2.64	10-32	M6	10-32	1/4 NPT	0.20	0.47	5/16"-18 / 3/8"-16	0.51 / 0.63	0.31	0.50	
7	F07/10	10.47	6.56	6.14	1.18	0.87	0.79	1.02	2.64	10-32	M6	10-32	1/4 NPT	0.20	0.47	5/16"-18 / 3/8"-16	0.51 / 0.63	0.31	0.50	
9	F10/F12	13.39	8.17	7.52	1.65	1.06	1.18	1.02	2.64	10-32	M6	10-32	1/4 NPT	0.20	0.47	1-2	0.79	0.31	0.50	
10	F14	14.21	9.84	8.94	2.4	1.42	1.18	1.02	2.64	10-32	M6	10-32	1/4 NPT	0.20	0.47	3-4	0.98	0.31	0.50	
12	F16	19.52	13.31	11.81	-	1.81	1.18	1.02	2.64	10-32	M6	10-32	1/4 NPT	0.47	0.47	3-4	1.26	0.31	0.50	



TORQUE RATING CHARTS FOR EA2 ACTUATORS - METRIC THREADS

Double acting - torque in Nm									
		Air pressure supply (bar)							
EA2-	Springs	3	4	5	6	7	8	9	10
1	0	4.4	5.8	7.3	8.7	10.2	11.6	13.1	14.5
2-2A	0	11.8	15.8	19.7	23.7	27.6	31.6	35.5	39.5
3	0	25.4	33.8	42.3	50.7	59.2	67.6	76.1	84.5
4	0	50.7	67.6	84.5	101.5	118.4	135.3	152.2	169.1
5	0	61.3	81.7	102.1	122.5	142.9	163.3	183.8	204.2
6	0	101.0	134.6	168.3	201.9	235.6	269.2	302.9	336.5
7	0	187.1	249.5	311.8	374.2	436.5	498.9	561.3	623.6

Spring return - Torque in Nm																					
						air stroke - start								air stroke - end							
	Springs	Springs	Spring stroke			Air pressure supply (bar)								Air pressure supply (bar)							
EA2-	total	outer	inner	start	end	3	4	5	6	7	8	9	10	3	4	5	6	7	8	9	10
2-2A	2			2.62	1.34	10.5	14.4	18.4	22.3	26.3	30.2	34.2	38.1	9.2	13.2	17.1	21.1	25.0	28.9	32.9	36.8
	3			3.93	2.01	9.8	13.8	17.7	21.7	25.6	29.6	33.5	37.4	7.9	11.9	15.8	19.7	23.7	27.6	31.6	35.5
	4			5.24	2.68	9.2	13.1	17.0	21.0	24.9	28.9	32.8	36.8	6.6	10.5	14.5	18.4	22.4	26.3	30.3	34.2
	5			6.55	3.35	8.5	12.4	16.4	20.3	24.3	28.2	32.2	36.1	5.3	9.2	13.2	17.1	21.1	25.0	29.0	32.9
	6			7.86	4.02	7.8	11.8	15.7	19.7	23.6	27.5	31.5	35.4	4.0	7.9	11.9	15.8	19.8	23.7	27.6	31.6
	7			9.17	4.69		11.1	15.0	19.0	22.9	26.9	30.8	34.8		6.6	10.6	14.5	18.4	22.4	26.3	30.3
	8			10.48	5.36		10.4	14.4	18.3	22.3	26.2	30.1	34.1		5.3	9.2	13.2	17.1	21.1	25.0	29.0
	9			11.79	6.03			13.7	17.6	21.6	25.5	29.5	33.4			7.9	11.9	15.8	19.8	23.7	27.7
	10			13.1	6.7			13.0	17.0	20.9	24.9	28.8	32.8			6.6	10.6	14.5	18.5	22.4	26.4
	11			14.41	7.37				16.3	20.2	24.2	28.1	32.1				9.3	13.2	17.2	21.1	25.0
	12			15.72	8.04				15.6	19.6	23.5	27.5	31.4				8.0	11.9	15.8	19.8	23.7
3	2			5.44	3	22.4	30.8	39.3	47.7	56.2	64.6	73.1	81.5	19.9	28.4	36.8	45.3	53.7	62.2	70.7	79.1
	3			8.16	4.5	20.9	29.3	37.8	46.2	54.7	63.1	71.6	80.0	17.2	25.7	34.1	42.6	51.0	59.5	67.9	76.4
	4			10.88	6	19.4	27.8	36.3	44.7	53.2	61.6	70.1	78.5	14.5	22.9	31.4	39.8	48.3	56.8	65.2	73.7
	5			13.6	7.5	17.9	26.3	34.8	43.2	51.7	60.1	68.6	77.0	11.8	20.2	28.7	37.1	45.6	54.0	62.5	70.9
	6			16.32	9	16.4	24.8	33.3	41.7	50.2	58.6	67.1	75.5	9.0	17.5	26.0	34.4	42.9	51.3	59.8	68.2
	7			19.04	10.5		23.3	31.8	40.2	48.7	57.1	65.6	74.0		14.8	23.2	31.7	40.1	48.6	57.1	65.5
	8			21.76	12		21.8	30.3	38.7	47.2	55.6	64.1	72.5		12.1	20.5	29.0	37.4	45.9	54.3	62.8
	9			24.48	13.5			28.8	37.2	45.7	54.1	62.6	71.0			17.8	26.2	34.7	43.2	51.6	60.1
	10			27.2	15			27.3	35.7	44.2	52.6	61.1	69.5			15.1	23.5	32.0	40.4	48.9	57.3
	11			29.92	16.5				34.2	42.7	51.1	59.6	68.0				20.8	29.3	37.7	46.2	54.6
	12			32.64	18				32.7	41.2	49.6	58.1	66.5				18.1	26.5	35.0	43.5	51.9
4	2			10.24	6.68	44.0	61.0	77.9	94.8	111.7	128.6	145.5	162.4	40.5	57.4	74.3	91.2	108.1	125.0	141.9	158.9
	3			15.36	10.02	40.7	57.6	74.5	91.4	108.3	125.3	142.2	159.1	35.4	52.3	69.2	86.1	103.0	119.9	136.8	153.7
	4			20.48	13.36	37.4	54.3	71.2	88.1	105.0	121.9	138.8	155.7	30.2	47.2	64.1	81.0	97.9	114.8	131.7	148.6
	5			25.6	16.7	34.0	50.9	67.8	84.8	101.7	118.6	135.5	152.4	25.1	42.0	58.9	75.9	92.8	109.7	126.6	143.5
	6			30.72	20.04	30.7	47.6	64.5	81.4	98.3	115.2	132.1	149.1	20.0	36.9	53.8	70.7	87.6	104.6	121.5	138.4
	7			35.84	23.38		44.3	61.2	78.1	95.0	111.9	128.8	145.7		31.8	48.7	65.6	82.5	99.4	116.3	133.3
	8			40.96	26.72		40.9	57.8	74.7	91.6	108.6	125.5	142.4		26.7	43.6	60.5	77.4	94.3	111.2	128.1
	9			46.08	30.06			54.5	71.4	88.3	105.2	122.1	139.0			38.5	55.4	72.3	89.2	106.1	123.0
	10			51.2	33.4			51.1	68.1	85.0	101.9	118.8	135.7			33.3	50.3	67.2	84.1	101.0	117.9
	11			56.32	36.74				64.7	81.6	98.5	115.4	132.4				45.1	62.0	79.0	95.9	112.8
	12			61.44	40.08				61.4	78.3	95.2	112.1	129.0				40.0	56.9	73.8	90.7	107.7
5	4	4	0	52.4	28.8	32.5	52.9	73.3	93.7	114.1	134.5	155.0	175.4	8.9	29.3	49.7	70.1	90.5	110.9	131.4	151.8
	5	4	1	58.95	32.4		49.3	69.7	90.1	110.5	130.9	151.4	171.8		22.7	43.1	63.6	84.0	104.4	124.8	145.2
	6	4	2	65.5	36		45.7	66.1	86.5	106.9	127.3	147.8	168.2		16.2	36.6	57.0	77.4	97.8	118.3	138.7
	7	4	3	72.05	39.6			62.5	82.9	103.3	123.7	144.2	164.6			30.0	50.5	70.9	91.3	111.7	132.1
6	8	4	4	78.6	43.2			58.9	79.3	99.7	120.1	140.6	161.0			23.5	43.9	64.3	84.7	105.2	125.6
	4	4	0	86.8	47.7	53.3	86.9	120.6	154.2	187.9	221.5	255.2	288.8	14.2	47.8	81.5	115.1	148.8	182.4	216.1	249.7
	5	4	1	97.65	53.675		80.9	114.6	148.3	181.9	215.6	249.2	282.9		37.0	70.6	104.3	137.9	171.6	205.2	238.9
	6	4	2	108.5	59.65		75.0	108.6	142.3	175.9	209.6	243.2	276.9		26.1	59.8	93.4	127.1	160.7	194.4	228.0
7	7	4	3	119.35	65.625			102.6	136.3	170.0	203.6	237.3	270.9			48.9	82.6	116.2	149.9	183.5	217.2
	8	4	4	130.2	71.6			96.7	130.3	164.0	197.6	231.3	264.9			38.1	71.7	105.4	139.0	172.7	206.3
	4	4	0	160.8	88.4	98.7	161.1	223.4	285.8	348.1	410.5	472.9	535.2	26.3	88.7	151.0	213.4	275.7	338.1	400.5	462.8
	5	4	1	180.9	99.45		150.0	212.4	274.7	337.1	399.5	461.8	524.2		68.6	130.9	193.3	255.6	318.0	380.4	442.7
7	6	4	2	201	110.5		139.0	201.3	263.7	326.0	388.4	450.8	513.1		48.5	110.8	173.2	235.5	297.9	360.3	422.6
	7	4	3	221.1	121.55			190.3	252.6	315.0	377.4	439.7	502.1			90.7	153.1	215.4	277.8	340.2	402.5
	8	4	4	241.2	132.6				179.2	241.6	303.9	366.3	428.7			70.6	133.0	195.3	257.7	320.1	382.4



TORQUE RATING CHARTS FOR EA4 ACTUATORS - IMPERIAL THREADS

Double acting - torque in lb							
EA4-	Air pressure supply (PSI)						
	40	50	60	70	80	90	100
1	35	44	53	62	71	80	89
2	96	120	144	168	193	217	241
3	206	258	309	361	413	464	516
4	413	516	619	722	825	928	1032
5	498	623	747	872	996	1121	1246
6	821	1027	1232	1437	1642	1848	2053
7	1522	1902	2283	2663	3044	3424	3804
9	3344.5	4180.6	5016.8	5852.9	6689.0	7525.1	8361.3
10	4552.5	5690.6	6828.8	7966.9	9105.0	10243.1	11381.3
12	10740.0	13425.0	16110.0	18795.0	21480.0	24165.0	26850.0

Spring return - Torque in lb																																
						air stroke - start									air stroke - end																	
	Springs	Springs	Springs	Spring Torque	Air pressure supply (PSI)														Air pressure supply (PSI)													
EA4-	total	outer	inner	start	end	40	50	60	70	80	90	100	110	120	40	50	60	70	80	90	100	110	120									
2	2			23	12	84	108	133	157	181	205	229	253	277	73	97	121	145	169	193	218	242	266									
	3			35	18	78	103	127	151	175	199	223	247	271	62	86	110	134	158	182	206	230	254									
	4			46	24	73	97	121	145	169	193	217	241	265	50	74	98	122	146	170	194	218	242									
	5			58	30	67	91	115	139	163	187	211	235	259	38	82	86	111	135	159	183	207	231									
	6			70	36		85	109	133	157	181	205	229	253		51	75	99	123	147	171	195	219									
	7			81	41		79	103	127	151	175	199	223	247		39	63	87	111	135	160	184	208									
	8			93	47			97	121	145	169	193	217	241			52	76	100	124	148	172	196									
	9			104	53				115	139	163	187	211	235				84	88	112	136	160	185									
	10			116	59				109	133	157	181	205	230				53	77	101	125	149	173									
	11			127	65					127	151	175	200	224					65	89	113	137	161									
	12			139	71						145	170	194	218						78	102	126	150									
	3	2			48	27	180	231	283	334	386	436	489	541	592	158	210	261	313	364	416	468	519	571								
3				72	40	166	218	270	321	373	424	476	528	579	134	186	237	289	340	392	444	495	547									
4				96	53	153	205	256	308	360	411	463	514	566	110	162	213	265	316	368	419	471	523									
5				120	66	140	192	243	295	346	398	449	501	553	86	138	189	241	292	344	395	447	499									
6				144	80		178	230	281	333	385	436	488	539		113	165	217	268	320	371	423	475									
7				188	93		165	217	268	320	371	423	474	526		89	141	193	244	296	347	399	450									
8				193	106			203	255	306	358	410	461	513			117	169	220	272	323	375	426									
9				217	119				242	293	345	396	448	499				144	196	248	299	351	402									
10				241	133				228	280	331	383	435	486				120	172	224	275	327	378									
11				265	146					267	318	370	421	473					148	199	251	303	354									
12				289	159						305	356	408	460						175	227	279	330									
4		2			91	59	354	457	560	663	766	869	972	1076	1179	322	425	528	631	735	838	941	1044	1147								
	3			136	89	324	427	530	633	737	840	943	1046	1149	277	380	483	586	689	792	896	999	1102									
	4			181	118	294	398	501	604	707	810	913	1016	1120	231	335	438	541	644	747	850	953	1057									
	5			227	148	265	368	471	574	677	781	884	987	1090	186	289	392	496	599	702	805	908	1011									
	6			272	177		338	442	545	648	751	854	957	1061		244	347	450	553	657	760	863	966									
	7			317	207		309	412	515	618	722	825	928	1031		199	302	405	508	611	714	818	921									
	8			362	236			382	486	589	692	795	898	1001			257	360	463	566	669	772	875									
	9			408	266				466	559	662	766	869	972				314	418	521	624	727	830									
	10			453	296				427	530	633	736	839	942				269	372	475	579	682	785									
	11			498	325					500	603	706	810	913					327	430	533	636	740									
	12			544	355						574	677	780	883						385	488	591	694									
	5	4	4	0	464	255		368	493	617	742	866	991	1115	1240		159	284	408	533	657	782	907	1031								
5		4	1	522	287			461	585	710	834	959	1083	1208			226	350	475	599	724	849	973									
6		4	2	580	319			429	553	678	803	927	1052	1176			168	292	417	541	666	791	915									
7		4	3	637	350			522	646	771	895	1020	1144					234	359	484	608	733	857									
6	4	4	4	695	382				614	739	863	988	1112						301	426	550	675	799									
	4	4	0	769	422		604	810	1015	1220	1426	1631	1836	2042		259	464	669	874	1080	1285	1490	1696									
	5	4	1	864	475			757	962	1168	1373	1578	1783	1989			368	573	778	984	1189	1394	1600									
	6	4	2	960	528			704	909	1115	1320	1525	1731	1936			272	477	682	888	1093	1298	1504									
	7	4	3	1056	581				856	1062	1267	1472	1678	1883				381	586	792	997	1202	1408									
	8	4	4	1152	634				804	1009	1214	1420	1625	1830				285	490	696	901	1106	1312									
7	4	4	0	1423	782		1120	1500	1881	2261	2642	3022	3403	3783		479	860	1240	1621	2001	2382	2762	3143									
	5	4	1	1601	880		1022	1403	1783	2164	2544	2924	3305	3685		302	682	1063	1443	1823	2204	2584	2965									
	6	4	2	1778	978			1305	1685	2066	2446	2827	3207	3588			504	885	1265	1646	2026	2406	2787									
	7	4	3	1956	1075			1207	1568	1968	2349	2729	3109	3490			326	707	1087	1468	1848	2229	2609									
8	4	4	4	2134	1173				1490	1870	2251	2631	3012	3392					529	909	1290	1670	2051	2431								
	4	4	0	3133	1726			3282	4116	4951	5785						1877	2712	3548	4383												
	6	4	2	3921	2151			2858	3692	4527	5362						1098	1935	2771	3607												
	7	4	3	4310	2372				3472	4306	5141								1538	2374	3209											
9	4	4	4	4699	2584					4095	4929									1986	2821											
	4	4	0	4266	2345			4470	5606	6742	7878						2554	3690	4827	5964												
	6	4	2	5337	2929			3881	5016	6151	7286						1485	2622	3759	4896												
	7	4	3	5868	3230				4723	5860	6996								2093	3230	4367											
10	8	4	4	6399	3522					5568	6705									2700	3838											
	6			8284	5363			10711	13391	16070	18749						7797	10477	13158	15838												
	8			11045	7151			8928	11607	14287	16967						5042	7723	10404	13085												
	10			13806	8939				9824	12505	15185								4969	7651	10333											
12	12			16567	10726					10722	13403									4898	7581											



QUICK PICK CHART FOR EA2 (METRIC) PNEUMATIC ACTUATORS ASSEMBLED ON S64, S65, S73 AND S76 RUB BALL VALVES

For service with pipeline ΔP lower than the maximum limits shown below, and for media having friction characteristics similar to clean water or moist/lubricated gases the following actuator selections can be used. For higher pipeline pressures or more difficult media the selection must be made using the valve torque charts found on each valve data sheet, and the actuator torque rating chart found on the following page. For assistance in actuator selection please contact **RuB** at the following email address: sales@rubvalves.com or your **RuB** distributor.

		Air pressure supply (bar)																							
VALVE		3	4	5	6	7	8	9	10	3	4	5	6	7	8	9	10	3	4	5	6	7	8	9	10
s64 LT	ΔP Media (bar)	Double Acting Actuators EA2-								Spring-to-Close Actuators EA2-								Spring-to-Open Actuators EA2-							
1"	6	1	1	1	1	1	1	1	1	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2
1 1/4"	6	1	1	1	1	1	1	1	1	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3
1 1/2"	6	2A	2A	2A	2A	2A	2A	2A	2A	2As6	2As6	2As6	2As6	2As6	2As6	2As6	2As6	2As6	2As6	2As6	2As6	2As6	2As6	2As6	2As6
2"	6	2A	2A	2A	2A	2A	2A	2A	2A	3s4	2As8	2As8	2As8	2As8	2As8	2As8	2As8	3s4	2As8	2As8	2As8	2As8	2As8	2As8	2As8
1"	16 Max	1	1	1	1	1	1	1	1	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4
1 1/4"	16 Max	1	1	1	1	1	1	1	1	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4
1 1/2"	16 Max	2A	2A	2A	2A	2A	2A	2A	2A	2s4	3s4	2As9	2As9	2As9	2As9	2As9	2As9	2s4	3s4	2As9	2As9	2As9	2As9	2As9	2As9
2"	16 Max	3	2A	2A	2A	2A	2A	2A	2A	3s6	3s6	3s6	2As12	2As12	2As12	2As12	2As12	3s6	3s6	3s6	2As12	2As12	2As12	2As12	2As12

		Air pressure supply (bar)																															
VALVE		3	4	5	6	7	8	9	10	3	4	5	6	7	8	9	10	3	4	5	6	7	8	9	10	3	4	5	6	7	8	9	10
s64	ΔP* Media (bar)	Double Acting Actuators EA2-								Spring-to-Close Actuators EA2-								Spring-to-Open Actuators EA2-															
1/2"	15	1	1	1	1	1	1	1	1	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3
3/4"	15	1	1	1	1	1	1	1	1	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4
1"	15	2	2	1	1	1	1	1	1	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7
1 1/4"	15	2A	2A	2A	2A	2A	2A	2A	2A	3s6	3s6	3s6	2As12	2As12	2As12	2As12	2As12	3s5	3s5	3s5	2As11	2As11	2As11	2As11	2As11	2As11	2As11	2As11	2As11	2As11	2As11	2As11	2As11
1 1/2"	15	3	3	3	3	3	3	3	3	4s4	4s4	3s9	3s9	3s9	3s9	3s9	3s9	4s5	4s5	3s10	3s10	3s10	3s10	3s10	3s10	3s10	3s10	3s10	3s10	3s10	3s10	3s10	3s10
2"	15	4	3	3	3	3	3	3	3	4s5	4s5	4s5	3s11	3s11	3s11	3s11	3s11	4s6	4s6	4s6	3s12	3s12	3s12	3s12	3s12	3s12	3s12	3s12	3s12	3s12	3s12	3s12	3s12
2 1/2"	15	5	5	5	5	5	5	5	5	7s4	5s4	5s4	5s4	5s4	5s4	5s4	5s4	7s4	5s4	5s4	5s4	5s4	5s4	5s4	5s4	5s4	5s4	5s4	5s4	5s4	5s4	5s4	5s4
3"	15	7	6	5	5	5	5	5	5	7s4	7s4	6s7	6s7	6s7	6s7	6s7	6s7	7s4	7s4	6s7	6s7	6s7	6s7	6s7	6s7	6s7	6s7	6s7	6s7	6s7	6s7	6s7	6s7
4"	15	7	7	7	6	6	6	6	5			7s7	7s7	7s7	7s7	7s7	7s7			7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7

* Selections apply for valves used with ΔP up to 15 bar Max. For ΔP over 15 bar and up to 40 bar (30 bar for sizes over 2"), please consult **BONOMI INDUSTRIES** for sizing recommendations.

		Air pressure supply (bar)																							
VALVE		3	4	5	6	7	8	9	10	3	4	5	6	7	8	9	10	3	4	5	6	7	8	9	10
s65	ΔP Media (bar)	Double Acting Actuators EA2-								Spring-to-Close Actuators EA2-								Spring-to-Open Actuators EA2-							
1/2"	16 Max	1	1	1	1	1	1	1	1	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4
3/4"	16 Max	1	1	1	1	1	1	1	1	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4
1"	16 Max	2	1	1	1	1	1	1	1	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5
1 1/4"	16 Max	2	1	1	1	1	1	1	1	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5

		Air pressure supply (bar)																							
VALVE		3	4	5	6	7	8	9	10	3	4	5	6	7	8	9	10	3	4	5	6	7	8	9	10
s73	ΔP Media (bar)	Double Acting Actuators EA2-								Spring-to-Close Actuators EA2-								Spring-to-Open Actuators EA2-							
1/2"	16	2	2	2	2	2	1	1	1	4s3	3s7	3s7	3s7	3s7	3s7	3s7	3s7	4s3	3s7	3s7	3s7	3s7	3s7	3s7	3s7
3/4"	16	3	2	2	2	2	2	2	1	1	4s4	3s8	3s8	3s8	3s8	3s8	3s8	4s4	3s8	3s8	3s8	3s8	3s8	3s8	3s8
1"	16	3	3	3	2	2	2	2	2	2	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	
1 1/4"	16	3	3	3	3	3	3	3	3	3	4s4	4s4	3s9	3s9	3s9	3s9	3s9	4s4	4s4	3s9	3s9	3s9	3s9	3s9	3s9
1 1/2"	16	3	3	3	3	3	3	3	3	3	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7
2"	16	4	4	3	3	3	3	3	3	3	6s4	5s6	4s11	4s11	4s11	4s11	4s11	6s4	5s4	4s11	4s11	4s11	4s11	4s11	4s11

* Selections apply for valves used with ΔP up to 16 bar Max. For ΔP over 16 bar and up to 20 bar, please consult **BONOMI INDUSTRIES** for sizing recommendations.

		Air pressure supply (bar)																											
VALVE		3	4	5	6	7	8	9	10	3	4	5	6	7	8	9	10	3	4	5	6	7	8	9	10				
s76	Δp Media (bar)	Double Acting Actuators EA2-								Spring-to-Close Actuators EA2-								Spring-to-Open Actuators EA2-											
1/2"	16	1	1	1	1	1	1	1	1	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4			
3/4"	16	1	1	1	1	1	1	1	1	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5			
1"	16	2	1	1	1	1	1	1	1	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5			
1 1/4"	16	2A	2A	2A	2A	2A	2A	2A	2A	3s5	3s5	3s5	2As11	2As11	2As11	2As11	2As11	3s5	3s5	3s5	2As11	2As11	2As11	2As11	2As11	2As11			
1 1/2"	16	3	3	3	3	3	3	3	3	4s5	4s5	3s9	3s9	3s9	3s9	3s9	3s9	4s5	4s5	3s9	3s9	3s9	3s9	3s9	3s9	3s9			
2"	16	4	3	3	3	3	3	3	3	4s6	4s6	4s6	3s12	3s12	3s12	3s12	3s12	4s6	4s6	4s6	3s12	3s12	3s12	3s12	3s12	3s12			

* Selections apply for valves used with ΔP up to 16 bar. For ΔP over 16 bar and up to 20/30 bar, please consult **BONOMI INDUSTRIES** for sizing recommendations.

Red font = selection driven by valve stem size

LINKAGE KIT SELECTION TABLE

Valve	Valve size	Actuator size								
		EA2	-1	-2	-2A	-3	-4	-5	-6	-7
s64	1/2" ~ 1"	LK-	1	1	-	3	3	-	-	-
	1 ¼" ~ 1 ½"	LK-	-	-	4	6	6	13	7	-
	2"	LK-	-	-	-	4	4	14	5	21
	2 ½" ~ 4"	LK-	-	-	-	-	-	15	15	22
s64 LT	1" ~ 1 ¼"	LK-	1	1	-	3	3	-	-	-
	1 ½" ~ 2"	LK-	-	-	4	6	6	-	-	-
s65	1/2" ~ 1 ¼"	LK-	1	1	-	3	-	-	-	-
s73	1/2" ~ 1"	LK-	1	1	-	3	3	-	-	-
	1 ¼" ~ 2"	LK-	-	-	-	4	4	14	5	-
s76	1/2" ~ 1"	LK-	1	1	-	3	3	-	-	-
	1 ¼" ~ 1 ½"	LK-	-	-	4	6	6	13	7	-
	2"	LK-	-	-	-	4	4	14	5	-



QUICK PICK CHART FOR EA4 (IMPERIAL) PNEUMATIC ACTUATORS
ASSEMBLED ON S64, S65, S134, AND S73, S76 RUB BALL VALVES

For service with pipeline ΔP lower than the maximum limits shown below, and for media having friction characteristics similar to clean water or moist/lubricated gases the following actuator selections can be used. For higher pipeline pressures or more difficult media the selection must be made using the valve torque charts found on each valve data sheet, and the actuator torque rating chart found on the following page.

		Air pressure supply (PSI)																													
VALVE		40	50	60	70	80	90	100	110	120	40	50	60	70	80	90	100	110	120	40	50	60	70	80	90	100	110	120			
s64 LT	ΔP Media (PSI)	Double Acting Actuators EA4-										Spring-to-Close Actuators EA4-										Spring-to-Open Actuators EA4-									
1"	90	1	1	1	1	1	1	1	1	1	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2			
1-1/4"	90	1	1	1	1	1	1	1	1	1	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3			
1-1/2"	90	3	3	3	3	3	3	3	3	3	3s3	3s3	3s3	3s3	3s3	3s3	3s3	3s3	3s3	3s3	3s3	3s3	3s3	3s3	3s3	3s3	3s3	3s3			
2"	90	3	3	3	3	3	3	3	3	3	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4			
1"	230 Max	1	1	1	1	1	1	1	1	1	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4			
1-1/4"	230 Max	1	1	1	1	1	1	1	1	1	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4			
1-1/2"	230 Max	3	3	3	3	3	3	3	3	3	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4			
2"	230 Max	3	3	3	3	3	3	3	3	3	4s3	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6			

		Air pressure supply (PSI)																													
VALVE		40	50	60	70	80	90	100	110	120	40	50	60	70	80	90	100	110	120	40	50	60	70	80	90	100	110	120			
s64	ΔP* Media (PSI)	Double Acting Actuators EA4-										Spring-to-Close Actuators EA4-										Spring-to-Open Actuators EA4-									
1/2"	200	1	1	1	1	1	1	1	1	1	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s2	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3			
3/4"	200	2	1	1	1	1	1	1	1	1	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4			
1"	200	2	2	2	2	1	1	1	1	1	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s5	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7			
1-1/4"	200	3	3	3	3	3	3	3	3	3	4s3	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s3	3s5	3s5	3s5	3s5	3s5	3s5	3s5	3s5			
1-1/2"	200	4	3	3	3	3	3	3	3	3	4s4	4s4	4s4	3s9	3s9	3s9	3s9	3s9	3s9	4s5	4s5	4s5	3s10	3s10	3s10	3s10	3s10				
2"	200	4	4	3	3	3	3	3	3	3	4s5	4s5	4s5	4s5	4s5	3s11	3s11	3s11	3s11	4s6	4s6	4s6	4s6	4s6	3s12	3s12	3s12	3s12			
2-1/2"	200	5	5	5	5	5	5	5	5	5	5s4	5s4	5s4	5s4	5s4	5s4	5s4	5s4	5s4	6s4	5s4	5s4	5s4	5s4	5s4	5s4	5s4	5s4			
3"	200	7	6	6	6	6	5	5	5	5	7s4	7s4	7s4	6s7	6s7	6s7	6s7	6s7	6s7	7s4	7s4	7s4	7s4	6s7	6s7	6s7	6s7	6s7			
4"	200	7	7	7	7	7	6	6	6	6	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7	7s7			

* Selections apply for valves used with ΔP up to 200 PSI Max. For ΔP over 200 PSI and up to 600 PSI (450 PSI for sizes over 2"), please consult **BONOMI INDUSTRIES** for sizing recommendations.

		Air pressure supply (PSI)																										
VALVE		40	50	60	70	80	90	100	110	120	40	50	60	70	80	90	100	110	120	40	50	60	70	80	90	100	110	120
s134	ΔP* Media (PSI)	Double Acting Actuators EA4-									Spring-to-Close Actuators EA4-									Spring-to-Open Actuators EA4-								
1/2"	200	2	2	1	1	1	1	1	1	1	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4
3/4"	200	2	2	2	2	2	1	1	1	1	3s4	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7	2s7
1"	200	3	3	3	3	3	3	3	3	3	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4	3s4
1-1/4"	200	3	3	3	3	3	3	3	3	3	4s3	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6	3s6
1-1/2"	200	4	3	3	3	3	3	3	3	3	4s4	4s4	4s4	3s8	3s8	3s8	3s8	3s8	3s8	3s8	3s8	3s8	3s8	3s8	3s8	3s8	3s8	3s8
2"	200	4	4	3	3	3	3	3	3	3	4s6	4s6	4s6	4s6	4s6	4s6	3s12	3s12	3s12	3s12	3s12	3s12	3s12	3s12	3s12	3s12	3s12	3s12

* Selections apply for valves used with ΔP up to 200 PSI Max. For ΔP over 200 PSI and up to 1000 PSI, please consult **BONOMI INDUSTRIES** for sizing recommendations.

		Air pressure supply (PSI)																										
VALVE		40	50	60	70	80	90	100	110	120	40	50	60	70	80	90	100	110	120	40	50	60	70	80	90	100	110	120
s65	ΔP Media (PSI)	Double Acting Actuators EA4-									Spring-to-Close Actuators EA4-									Spring-to-Open Actuators EA4-								
1/2"	230 max	1	1	1	1	1	1	1	1	1	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s3	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4
3/4"	230 max	2	1	1	1	1	1	1	1	1	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4
1"	230 max	2	1	1	1	1	1	1	1	1	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5
1-1/4"	230 max	2	2	1	1	1	1	1	1	1	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5

		Air pressure supply (PSI)																													
VALVE		40	50	60	70	80	90	100	110	120	40	50	60	70	80	90	100	110	120	40	50	60	70	80	90	100	110	120			
s73	ΔP* Media (PSI)	Double Acting Actuators EA4-										Spring-to-Close Actuators EA4-										Spring-to-Open Actuators EA4-									
1/2"	230	2	2	2	2	2	2	2	2	1	1	4s3	3s7	3s7	3s7	3s7	3s7	3s7	3s7	4s3	3s7	3s7	3s7	3s7	3s7	3s7	3s7	3s7			
3/4"	230	3	2	2	2	2	2	2	2	2	2	4s4	4s4	3s8	3s8	3s8	3s8	3s8	3s8	4s4	4s4	3s8	3s8	3s8	3s8	3s8	3s8	3s8			
1"	230	3	3	3	3	3	2	2	2	2	2	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6	4s6			
1-1/4"	230	3	3	3	3	3	3	3	3	3	3	4s4	4s4	3s9	3s9	3s9	3s9	3s9	3s9	3s9	4s4	4s4	3s9	3s9	3s9	3s9	3s9	3s9			
1-1/2"	230	3	3	3	3	3	3	3	3	3	3	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7	4s7			
2"	230	4	4	4	4	3	3	3	3	3	3	6s4	6s4	4s11	4s11	4s11	4s11	4s11	4s11	6s4	6s4	4s11	4s11	4s11	4s11	4s11	4s11	4s11			

* Selections apply for valves used with ΔP up to 230 PSI Max. For ΔP over 230 PSI and up to 300 PSI, please consult **BONOMI INDUSTRIES** for sizing recommendations.

		Air pressure supply (PSI)																											
VALVE		40	50	60	70	80	90	100	110	120	40	50	60	70	80	90	100	110	120	40	50	60	70	80	90	100	110	120	
s76	Δp Media (PSI)	Double Acting Actuators EA4-										Spring-to-Close Actuators EA4-										Spring-to-Open Actuators EA4-							
1/2"	230	1	1	1	1	1	1	1	1	1	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	2s4	
3/4"	230	2	1	1	1	1	1	1	1	1	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	
1"	230	2	1	1	1	1	1	1	1	1	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	2s5	
1-1/4"	230	3	3	3	3	3	3	3	3	3	3s5	3s5	3s5	3s5	3s5	3s5	3s5	3s5	3s5	3s5	3s5	3s5	3s5	3s5	3s5	3s5	3s5	3s5	
1-1/2"	230	3	3	3	3	3	3	3	3	3	4s5	4s5	4s5	3s9	3s9	3s9	3s9	3s9	3s9	3s9	3s9	3s9	3s9	3s9	3s9	3s9	3s9	3s9	
2"	230	4	3	3	3	3	3	3	3	3	4s6	4s6	4s6	4s6	4s6	3s12	3s12	3s12	3s12	4s5	4s5	4s5	4s5	4s5	4s5	4s5	3s12	3s12	



s.31 Mini Valve

Female/Female
1/4" - 3/4"

This newly engineered valve features all the good characteristics of the s.31 **RuB** mini valve, in particular:

QUALITY:

- 100% seal test guaranteed in according to EN12266-1 RATE A in either direction
- Compatible with most industrial fluids including those too viscous for pilot operated valves
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant
- Chrome plated ball for longer life
- Can operate also in vacuum line

BODY:

- Finest brass according to EN 12165 and EN 12164 specifications
- Strong one piece body construction
- Mounting kit to be ordered sperately "KCPA0AA00100"

STEM:

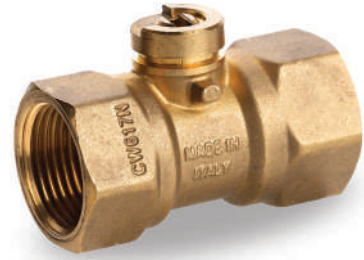
- Blowout-proof brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING:

- Pure PTFE self-lubricating seats

THREADS:

- EN 10226-1, ISO 228 parallel female by female threads



WORKING PRESSURE AND TEMPERATURE:

- Shell rating: 40 bar (600 PSI) non-shock cold working pressure
- Seat rating: Delta P max permissible 16 bar (230 PSI)
- -20°C to +120°C (-4°F to +250°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

APPROVED BY OR IN COMPLIANCE WITH:

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

Quick Connection with CP actuators



s.31 XCE3100 - 5466

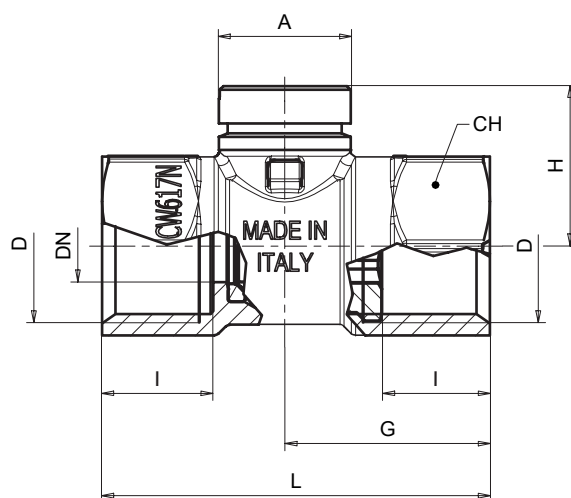
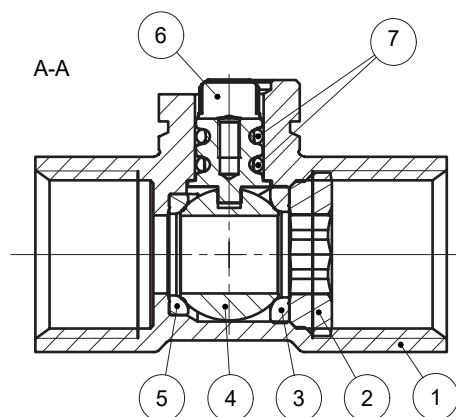
Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.



ACTUATION

	Part description	Q.ty	Material
1	Sand blasted unplated NPT body	1	CW617N
2	Unplated retainer nut	1	CW617N
3	Retainer seat	1	PTFE
4	Chrome plated ball	1	CW617N
5	Body seat	1	PTFE
6	Unplated stem O-Ring design	1	CW617N
7	O-Ring	2	FPM

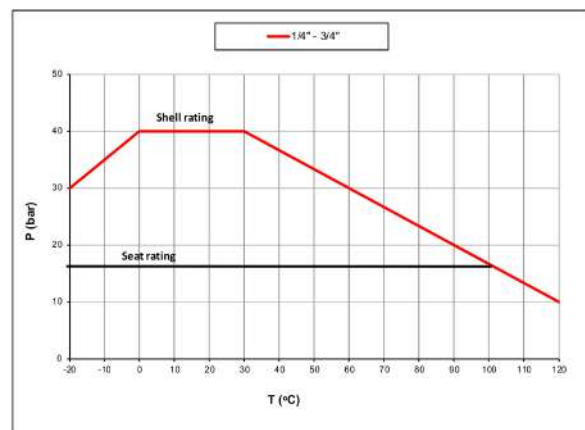
Code	AV31BF3	AV31CF3	AV31DF3	AV31EF3
D (inch)	1/4"	3/8"	1/2"	3/4"
DN (mm)	8	10	10	12.7
I (mm)	12	12	15.5	17
L (mm)	45.5	45.5	53.5	61.5
G (mm)	23.8	23.8	28	32.5
A (mm)	18.5	18.5	18.5	18.5
H (mm)	22.5	22.5	22.5	25.5
CH (mm)	25	25	25	31
Kv (m3/h)	5.8	9.5	9.5	25.4



TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0 ÷ 16 bar
Valve size	N.m
1/4" ÷ 1/2"	1.8
3/4"	2.5

PRESSURE-TEMPERATURE CHART



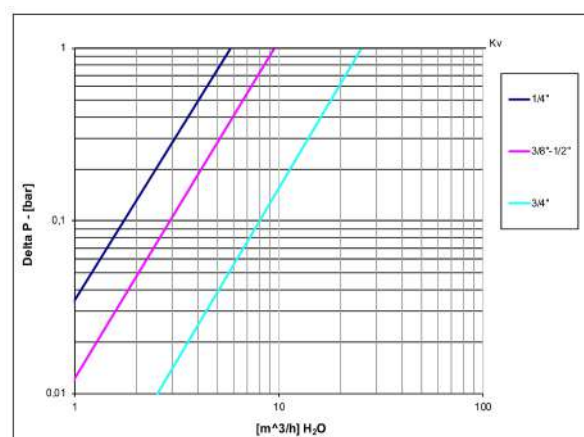
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5 ÷ 2.5

PRESSURE DROP CHART





s.31 NPT Mini Valve

Female/Female
1/4" - 3/4"

This newly engineered valve features all the good characteristics of the s.31 **RuB** mini valve, in particular:



QUALITY:

- 100% seal test guaranteed in according to EN12266-1 RATE A in either direction
- Compatible with most industrial fluids including those too viscous for pilot operated valves
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant
- Chrome plated ball for longer life
- Can operate also in vacuum line

BODY:

- Finest brass according to EN 12165 and EN 12164 specifications
- Strong one piece body construction
- Mounting kit to be ordered sperately "KCPA0AA00100"

STEM:

- Blowout-proof brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING:

- Pure PTFE self-lubricating seats

THREADS:

- NPT taper ANSI B.1.20.1 threads

WORKING PRESSURE AND TEMPERATURE:

- Shell rating: 600 PSI (40 bar) non-shock cold working pressure
- Seat rating: Delta P max permissible 230 PSI (16 bar)
- -4°F to +250°F (-20°C to +120°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

APPROVED BY OR IN COMPLIANCE WITH:

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

Quick Connection with CP actuators



s.31 NPT XCE3141 - 5466

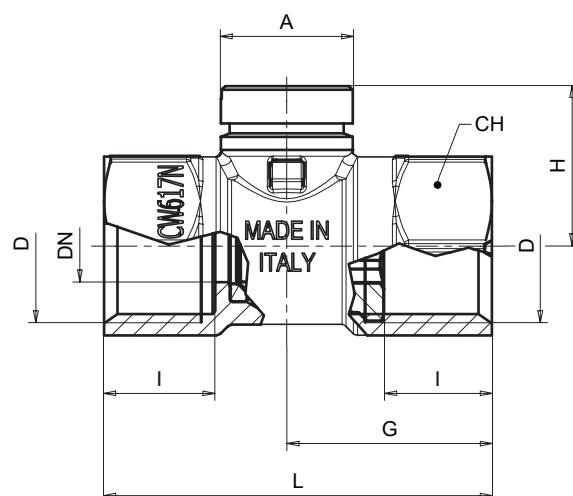
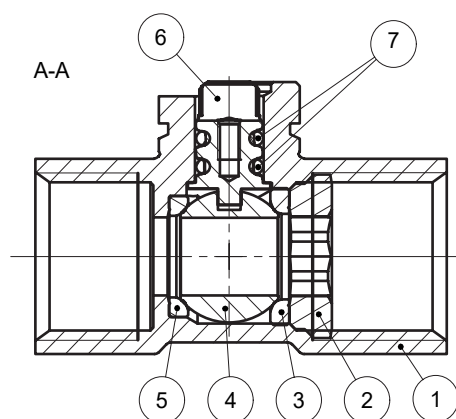
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ACTUATION

	Part description	Q.ty	Material
1	Sand blasted unplated NPT body	1	CW617N
2	Unplated retainer nut	1	CW617N
3	Retainer seat	1	PTFE
4	Chrome plated ball	1	CW617N
5	Body seat	1	PTFE
6	Unplated stem O-Ring design	1	CW617N
7	O-Ring	2	FPM

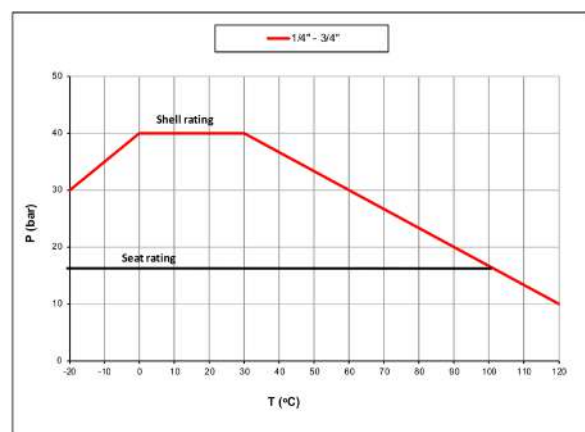
Code	AV31BX3	AV31CX3	AV31DX3	AV31EX3
D (inch)	1/4"	3/8"	1/2"	3/4"
DN (mm)	0.31	0.39	0.39	0.50
I (mm)	0.47	0.47	0.61	0.67
L (mm)	1.79	1.79	2.11	2.42
G (mm)	0.94	0.94	1.10	1.28
A (mm)	0.73	0.73	0.73	0.73
H (mm)	0.89	0.89	0.89	1.00
CH (mm)	0.98	0.98	0.98	1.22



TORQUE FOR ACTUATOR SIZING LB-IN

Delta P -->	0 ÷ 230 PSI
Valve size	lb-in
1/4" ÷ 1/2"	16
3/4"	22

PRESSURE-TEMPERATURE CHART



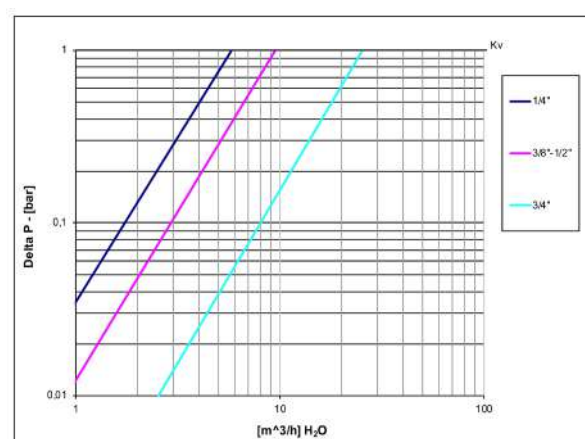
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5 ÷ 2.5

PRESSURE DROP CHART

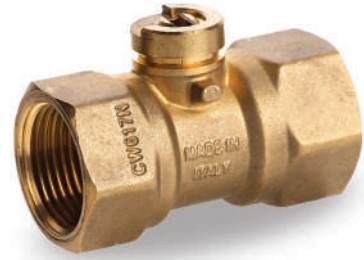




s.31 BSPT Mini Valve

Female/Female
1/4" - 3/4"

This newly engineered valve features all the good characteristics of the s.31 **RuB** mini valve, in particular:



QUALITY:

- 100% seal test guaranteed in according to EN12266-1 RATE A in either direction
- Compatible with most industrial fluids including those too viscous for pilot operated valves
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant
- Chrome plated ball for longer life
- Can operate also in vacuum line

BODY:

- Finest brass according to EN 12165 and EN 12164 specifications
- Strong one piece body construction
- Mounting kit to be ordered sperately "KCPA0AA00100"

STEM:

- Blowout-proof brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING:

- Pure PTFE self-lubricating seats

THREADS:

- ISO 7/1, BS 21 BSPT taper threads

WORKING PRESSURE AND TEMPERATURE:

- Shell rating: 40 bar (600 PSI) non-shock cold working pressure
- Seat rating: Delta P max permissible 16 bar (230 PSI)
- -20°C to +120°C (-4°F to +250°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

APPROVED BY OR IN COMPLIANCE WITH:

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

Quick Connection with CP actuators



s.31 BSPT XCE3150 - 5466

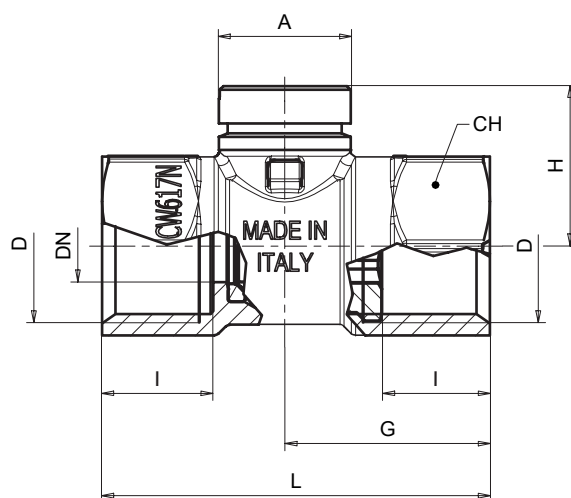
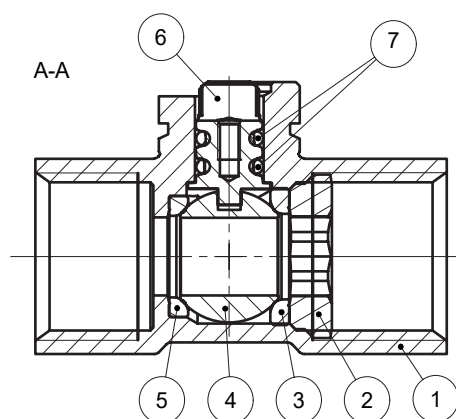
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ACTUATION

	Part description	Q.ty	Material
1	Sand blasted unplated NPT body	1	CW617N
2	Unplated retainer nut	1	CW617N
3	Retainer seat	1	PTFE
4	Chrome plated ball	1	CW617N
5	Body seat	1	PTFE
6	Unplated stem O-Ring design	1	CW617N
7	O-Ring	2	FPM

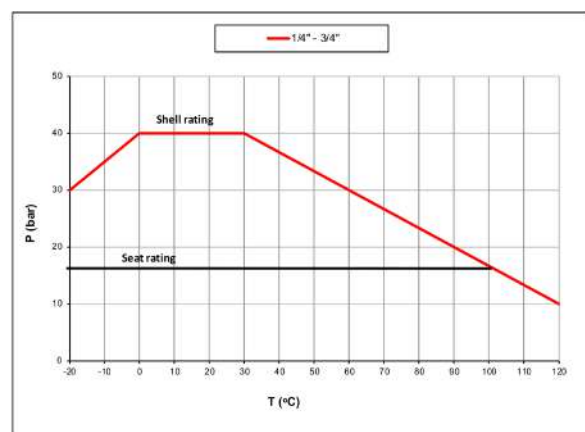
Code	AV31BW3	AV31CW3	AV31DW3	AV31EW3
D (inch)	1/4"	3/8"	1/2"	3/4"
DN (mm)	8	10	10	12.7
I (mm)	12	12	15.5	17
L (mm)	45.5	45.5	53.5	61.5
G (mm)	23.8	23.8	28	32.5
A (mm)	18.5	18.5	18.5	18.5
H (mm)	22.5	22.5	22.5	25.5
CH (mm)	25	25	25	31
Kv (m3/h)	5.8	9.5	9.5	25.4



TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0 ÷ 16 bar
Valve size	N.m
1/4" ÷ 1/2"	1.8
3/4"	2.5

PRESSURE-TEMPERATURE CHART



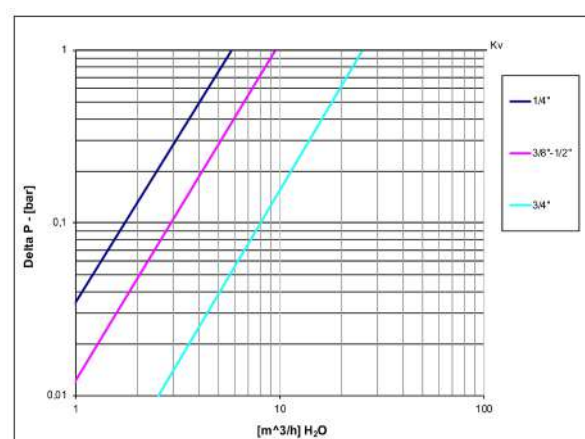
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5 ÷ 2.5

PRESSURE DROP CHART





s.6400

**Female/Female
1/2" - 4"**

EN 10226-1, ISO 5211, heavy duty



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life

BODY

- Hot forged sand blasted, nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

- 100% full port for maximum flow

OPERATING MECHANISM

- Integrated sturdy ISO 5211 flange allows direct mounting of electric and pneumatic actuators, with no bracket or coupling required. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) up to 2", 30 bar (450 PSI) over 2" non-shock cold working pressure
- For use with dangerous fluids pressure rating is 5 bar
- -20°C to +170°C (-4°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve
- For use with dangerous fluids temperature rating is -20°C +60°C

UPON REQUEST

- Custom design

PED DIRECTIVE

- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by ICIM (0425)

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- Water Regulations Advisory Scheme (United Kingdom)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- CW511L brass (lead-free and DZR) for drinking water applications with compression ends
- Configuration for use with slurries or liquid bearing abrasive particles
- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact power electric actuator for some sizes
- Manual lockable handle



s.6400 XCES6400 - 5466

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ACTUATION

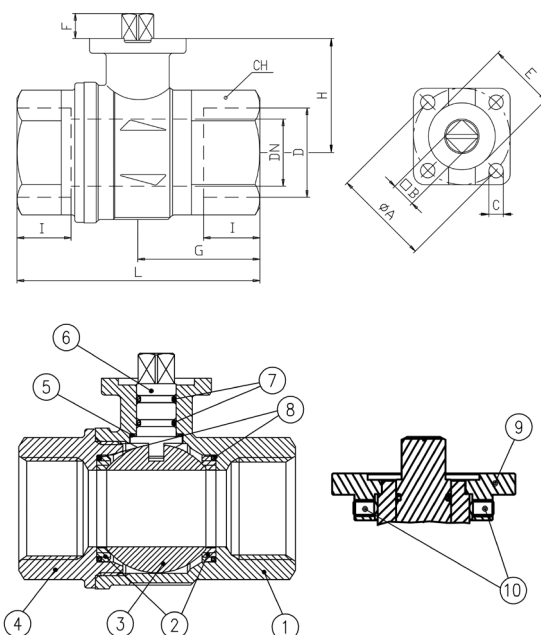
Part description		Q.ty	Material
1	Nickel plated body	1	CW617N
2	Ball seat	2	PTFE graphite filled 15%
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap	1	CW617N
5	Washer	1	PTFE carbon filled 25%
6	Nickel plated stem O-ring design	1	CW617N
7	O-Ring	2	FPM
8	O-Ring	2	FPM
9	Black anodized flange (only from 2 1/2" to 4")	1	Aluminum
10	Grub Screw (only from 2 1/2" to 4")	2	CB4FF

Valves configuration up to 2"

Valve ball seats and stem configuration of valves over 2" is different.

Compliant to CE 2014/68/UE product Equipment category III Module B+D

Code	S64D00	S64E00	S64F00	S64G00	S64H00	S64I00	S84L00AM	S84M00AM	S84N00AM
D (Size)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (mm)	15	20	25	32	40	50	65	80	100
I (mm)	16.5	19	22.5	25	26	29	32	35	41.5
L (mm)	75	80	90	110	120	140	156	177	216
G (mm)	30.5	37	45.5	52	59	67.5	78	88.5	108
H (mm)	31	38.5	42.5	55.5	62	69	89	96	111
CH (mm)	27	32	41	50	55	70	85	99	125
ØA (mm)	36	36	36	50	50	50	70	70	70
□B (mm)	9	9	9	11	11	14	17	17	17
C (mm)	5.6	5.6	5.6	6.6	6.6	6.6	8.5	8.5	8.5
E (mm)	25	25	25	35	35	35	55	55	55
F (mm)	7.5	8.5	8.5	10	10	14.5	18	18	18
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03	F05	F05	F05	F07	F07	F07
Kv (m³/h)	28	60	100	155	245	290	516	770	1120



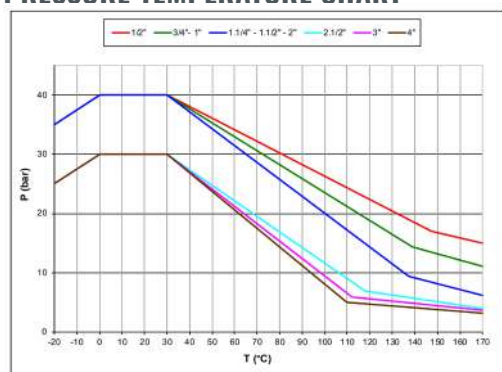
Ball valves are marked CE on end-cap from 1/4" to 4" as follow:

CE 0425 cat IIIB+D PS: 5 GAS TS1:-20°C TS2:+60°C

TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0÷15 bar		40 bar (30 bar over 2")	
	to open	to close	to open	to close
1/2"	2,8	1,7	2,8	1,7
3/4"	3,8	2,3	3,8	2,3
1"	7,1	4,2	7,1	4,2
1 1/4"	11,7	12,6	13,6	12,6
1 1/2"	24,9	20,3	30,9	20,3
2"	29,6	25,1	37	25,1
2 1/2"	42	42	105	105
3"	102	102	120	120
4"	186	186	225	225

PRESSURE-TEMPERATURE CHART



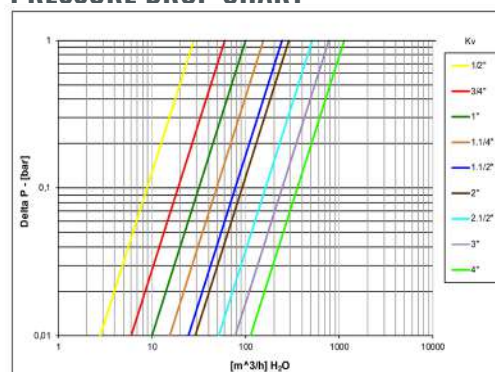
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE DROP CHART





s.6400LT

Female/Female

1" - 2"

EN 10226-1, ISO 5211, low torque



QUALITY

- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- 100% seal test guaranteed in according to EN 12266- 1 RATE A

BODY

- Hot forged sand blasted, nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

- 100% full port for maximum flow

OPERATING MECHANISM

- Integrated sturdy ISO 5211 flange allows direct mounting of electric and pneumatic actuators, with no bracket or coupling required. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- Shell rating: 40 bar (600 PSI) non shock cold working pressure
- Seat rating: Delta P max permissible 16 bar (230 PSI)
- -20°C to +170°C (-4°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- Water Regulations Advisory Scheme (United Kingdom)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact power electric actuator for some sizes



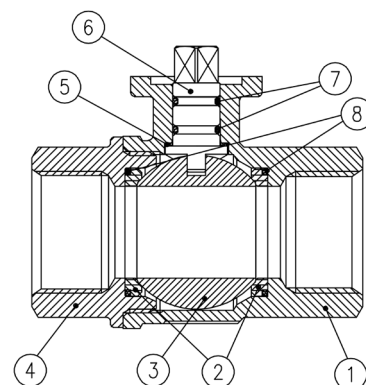
s.6400LT XCES6400LT - 5466

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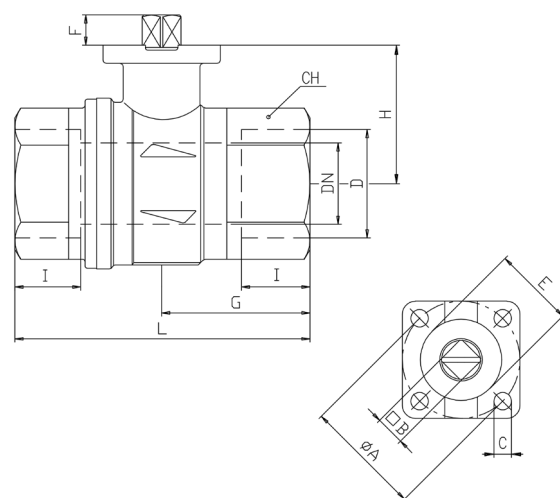


ACTUATION

Part description		Q.ty	Material
1	Nickel plated body	1	CW617N
2	Ball seat	2	PTFE carbo-graphite filled
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap	1	CW617N
5	Washer	1	PTFE carbon filled 25%
6	Nickel plated stem O-ring design	1	CW617N
7	O-Ring	2	FPM
8	O-Ring	2	FPM



Code	S64F00A	S64G00A	S64H00A	S64I00A
D (inch)	1"	1 1/4"	1 1/2"	2"
DN (mm)	25	32	40	50
I (mm)	22.5	25	26	29
L (mm)	90	110	120	140
G (mm)	45.5	52	59	67.5
H (mm)	42.5	55.5	62	69
CH (mm)	41	50	55	70
ØA (mm)	36	36	50	50
□B (mm)	9	9	11	11
C (mm)	5.6	5.6	6.6	6.6
E (mm)	25	25	35	35
F (mm)	8.5	8.5	10	10
Flange connection DIN ISO 522 DIN 3337	F03	F03	F05	F05
Kv (m3/h)	100	155	245	290



Ball valves are marked CE on end-cap from 1 1/4" to 2" as follow: CE XXCODEXX Cat I-A

TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0÷6 bar		>6÷16 bar	
	to open	to close	to open	to close
1"	2,2	2,2	3,5	3,5
1 1/4"	2,5	2,5	4	4
1 1/2"	5,8	5,8	9,5	9,5
2"	7,9	7,9	13	13

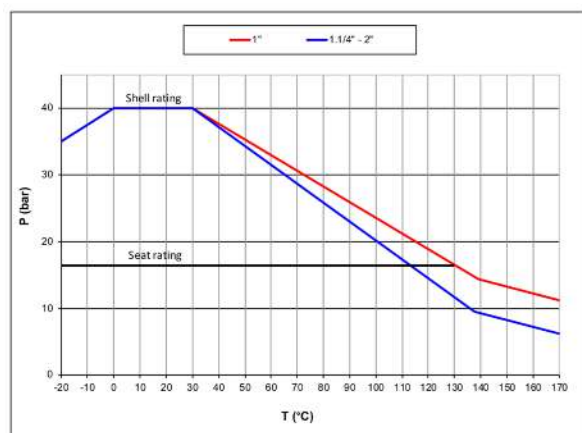
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

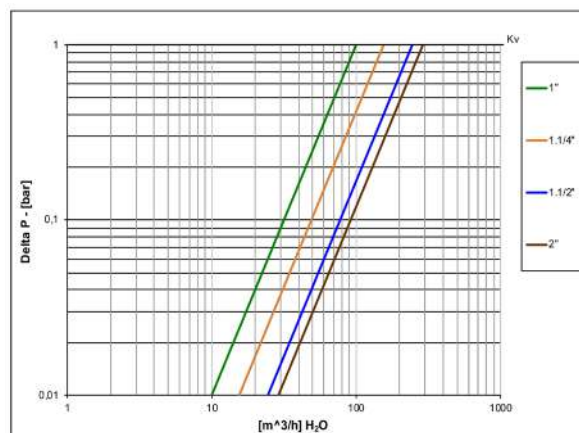
If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





k.6405

Female/Female

1/2" - 2" EN 10226-1, ISO 5211, pure PTFE seats, DIN 16722 M3

More and more automation is required at all levels in our society and the k.64 **RuB** range is the answer to all needs for reliable actuated ball valve. The line has successfully passed 100,000 cycle life tests and is available in a variety of standard and customized configurations some with special seat design to compensate for wear.

HIGH TEMPERATURE RESISTANCE

Now approved for HTB use (Hochtemperaturbeständigkeit) Class B 0,1 (0,1 bar @650°C for at least 30 minutes).



H2 READY: product approved in EU acc.to EN331 (sizes 1/4" to 2") for the 1st, 2nd and 3rd gas families, therefore compatible with hydrogen use up to 50% in the gas mixture, as established in the 1st gas family of the EN437 (ref. G110)



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life

BODY

- Hot forged sand blasted, nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- Valve length according to DIN 16722 M3

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

- 100% full port for maximum flow

OPERATING DEVICE

- Integrated sturdy ISO 5211 flange allows direct mounting of electric and pneumatic actuators, with no bracket or coupling required. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- For use with dangerous fluids pressure rating is 5 bar (72 PSI) / **HTB** Class B 0,1
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve
- For use with dangerous fluids temperature rating is -20°C to +60°C (-4°F to +140°F)

PED DIRECTIVE

- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by ICIM (0425)

APPROVED BY OR IN COMPLIANCE WITH

- DVGW (Germany) – MOP 5 B 0,1
- SVGW (Switzerland)
- GOST-R (Russia)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

You can purchase the valve alone or with the **RuB** actuator already mounted.

OPTIONS

- Special valve configurations available upon request
- s.64 configuration featuring NPT taper ANSI B.1.20.1 female by female threads, unplated body, reinforced seats and brass or stainless stem and ball
- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact power electric actuator for some sizes
- Manual lockable handle



k.6405 XCEK6405 - 5466

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ACTUATION

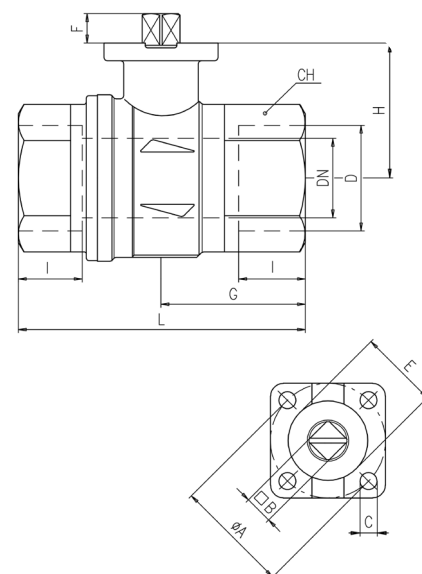
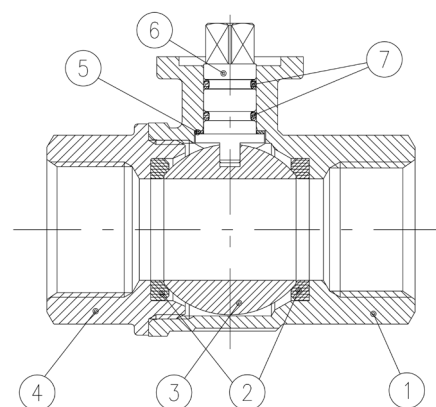
Part description		Q.ty	Material
1	Nickel plated body	1	CW617N
2	Ball seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap	1	CW617N
5	Washer	1	PTFE carbon filled 25%
6	Nickel plated stem O-ring design	1	CW617N
7	O-Ring	2	FPM

Ball valves are marked CE on body from 1 1/4" to 2" as follow:

CE 0425 cat IIIB+D PS: 5 GAS TS1: -20°C TS2: +60°C

Compliant to CE 2014/68/UE product
Equipment category III Module B+D

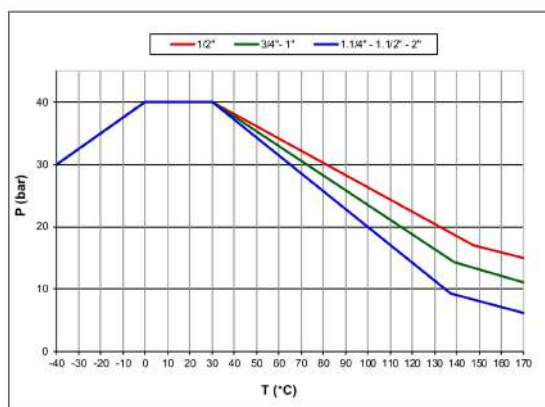
Code	S64D05	S64E05	S64F05	S64G05	S64H05	S64I05
D (Size)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	15	20	25	32	40	50
I (mm)	16.5	19	22.5	25	26	29
L (mm)	75	80	90	110	120	140
G (mm)	30.5	37	45.5	52	59	67.5
H (mm)	31	38.5	42.5	55.5	62	69
CH (mm)	27	32	41	50	55	70
ØA (mm)	36	36	36	50	50	50
□B (mm)	9	9	9	11	11	14
C (mm)	5.6	5.6	5.6	6.6	6.6	6.6
E (mm)	25	25	25	35	35	35
F (mm)	7.5	8.5	8.5	10	10	14.5
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03	F05	F05	F05
Kv (m³/h)	28	60	100	155	245	290



TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0÷15 bar		40 bar	
	to open	to close	to open	to close
1/2"	3,2	2,4	3,2	2,4
3/4"	4,6	3,5	4,6	3,5
1"	11	8,2	11	8,2
1 1/4"	16	14,4	16	14,4
1 1/2"	28,2	25,4	31	28
2"	38,9	35	49,5	44,5

PRESSURE-TEMPERATURE CHART



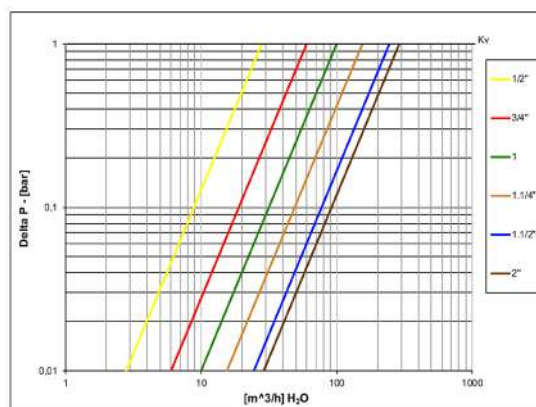
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE DROP CHART





s.6439 NPT

Female/Female
1/2" - 2"
SS trim, ISO 5211

More and more automation is required at all levels in our society and the s.64 **RuB** range is the answer to all needs for reliable actuated ball valve.

It features special seat design to automatically compensate for wear and it has successfully passed 100,000 cycle life tests.

You can purchase the valve alone or with **RuB** actuator already mounted.



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Stainless steel ball for longer life

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Blowout-proof stainless steel stem

SEALING

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Integrated sturdy ISO 5211 flange allows direct mounting of electric and pneumatic actuators, with no bracket or coupling required. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- 600 PSI non-shock cold working pressure
- -4°F to +350°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- k.64 configuration featuring EN 10226-1, ISO 228 parallel female by female threads, plated body, valve length according to DIN 3357 specification, pure PTFE seats
- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact power electric actuator for some sizes
- Manual lockable handle
- Brass trim (s.6441)



s.6439 NPT XGES6439 - rev.5466

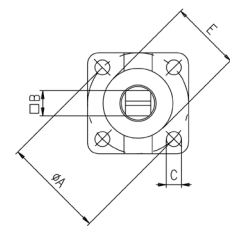
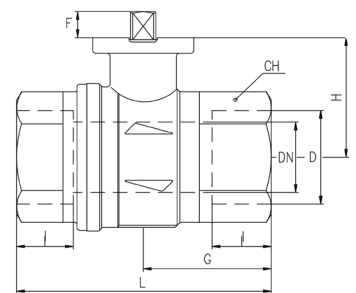
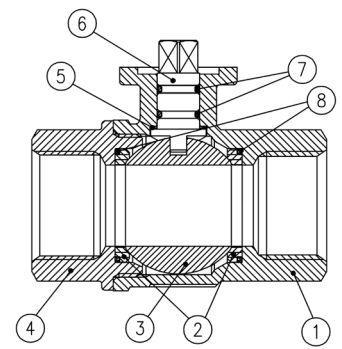
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ACTUATION

Part description		Q.ty	Material
1	Unplated body	1	CW617N
2	Ball seat	2	PTFE carbographite filled
3	Stainless steel ball	1	1.4401 / AISI 316
4	Unplated end-cap	1	CW617N
5	Washer	1	PTFE carbon filled 25%
6	Stainless steel stem O-ring design	1	1.4401 / AISI 316
7	O-Ring	2	FPM
8	O-Ring	2	FPM

Code	S64D41	S64E41	S64F41	S64G41	S64H41	S64I41
Size (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (inch)	0.59	0.787	0.984	1.259	1.575	1.968
I (inch)	0.61	0.708	0.826	0.905	0.964	1.043
L (inch)	2.598	2.933	3.562	4.094	4.606	5.314
G (inch)	1.201	1.456	1.791	2.047	2.322	2.657
H (inch)	1.22	1.515	1.673	2.185	2.441	2.716
CH (inch)	1.063	1.259	1.614	1.968	2.165	2.756
ØA (inch)	1.417	1.417	1.417	1.968	1.968	1.968
□B (inch)	0.354	0.354	0.354	0.551	0.551	0.551
C (inch)	0.22	0.22	0.22	0.259	0.259	0.259
E (inch)	0.984	0.984	0.984	1.378	1.378	1.378
F (inch)	0.295	0.334	0.334	0.57	0.57	0.57
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03	F05	F05	F05
Cv (GPM)	32.3	69.3	115.5	179.1	283.1	335



TORQUE FOR ACTUATOR SIZING IN-LB

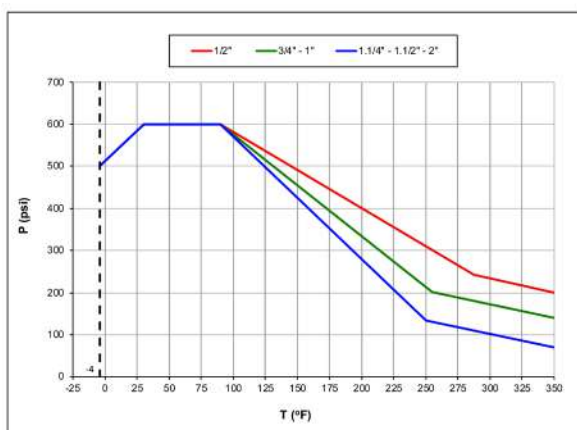
Delta P -->	0÷200 PSI		600 PSI	
	to open	to close	to open	to close
1/2"	25	15	25	15
3/4"	33	20	33	20
1"	62	37	62	37
1 1/4"	104	111	121	111
1 1/2"	220	180	273	180
2"	262	222	327	222

TORQUE CORRECTION FACTORS

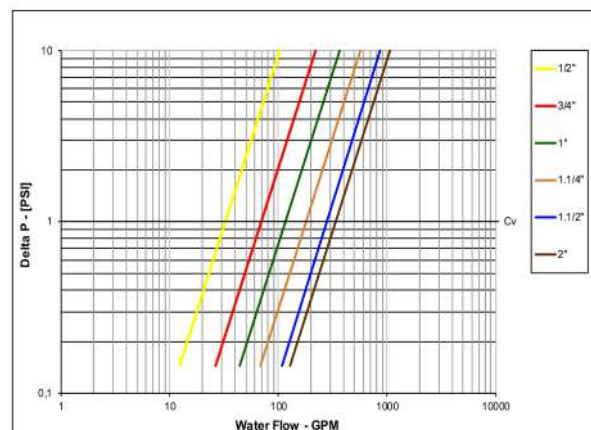
Valve torque can vary according to operating frequency, temperature and friction characteristics of the media. If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.6439LT NPT

Female/Female

1" - 2"

SS trim, ISO 5211, low torque

More and more automation is required at all levels in our society and the s.64 **RuB** range is the answer to all needs for reliable actuated ball valve. It features special seat design to automatically compensate for wear and it has successfully passed 100,000 cycle life tests.

You can purchase the valve alone or with **RuB** actuator already mounted.



QUALITY

- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Stainless steel ball for longer life
- 100% seal test guaranteed in according to EN 12266-1 RATE A

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Blowout-proof stainless steel stem

SEALING

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Integrated sturdy ISO 5211 flange allows direct mounting of electric and pneumatic actuators, with no bracket or coupling required. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- Shell rating: 600 PSI
- Seat rating: Delta P max permissible 230 PSI non-shock cold working pressure
- -4°F to +350°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Brass trim
- k.64 configuration featuring EN 10226-1, ISO 228 parallel female by female threads, plated body, valve length according to DIN 3357 specification, pure PTFE seats
- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact power electric actuator for some sizes



s.6439 LT XCES6439LT - 5466

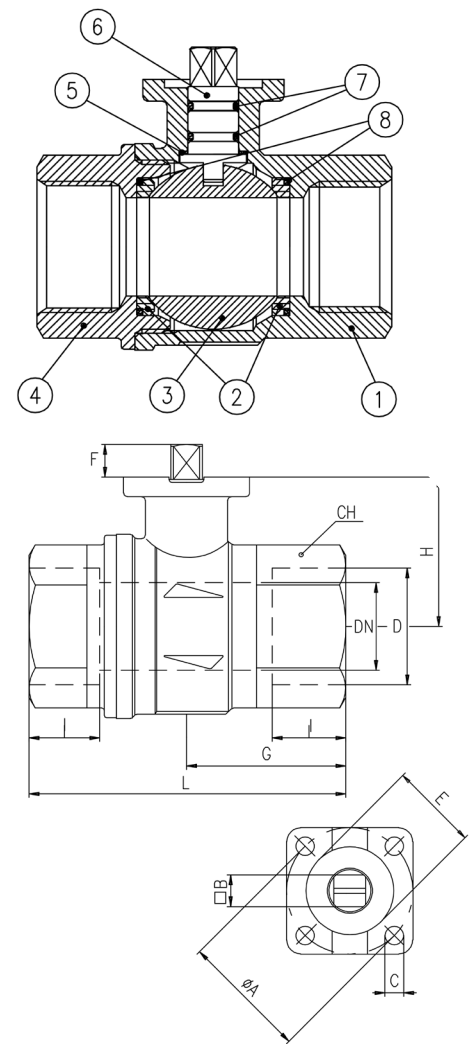
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ACTUATION

Part description		Q.ty	Material
1	Unplated body	1	CW617N
2	Ball seat	2	PTFE carbographite filled
3	Stainless steel ball	1	1.4401 / AISI 316
4	Unplated end-cap	1	CW617N
5	Washer	1	PTFE carbon filled 25%
6	Stainless steel stem O-ring design	1	1.4401 / AISI 316
7	O-Ring	2	FPM
8	O-Ring	2	FPM

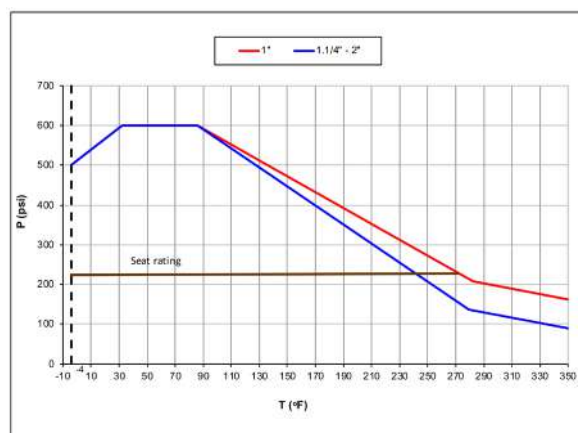
Code	S64F39A	S64G39A	S64H39A	S64I39A
Size (inch)	1"	1 1/4"	1 1/2"	2"
DN (inch)	0.984	1.259	1.575	1.968
I (inch)	0.827	0.906	0.965	1.043
L (inch)	3.563	4.094	4.606	5.315
G (inch)	1.791	2.047	2.323	2.657
H (inch)	1.673	2.185	2.441	2.717
CH (inch)	1.614	1.968	2.165	2.756
ØA (inch)	1.417	1.417	1.968	1.968
□B (inch)	0.354	0.354	0.551	0.551
C (inch)	0.220	0.220	0.260	0.260
E (inch)	0.984	0.984	1.378	1.378
F (inch)	0.335	0.335	0.571	0.571
Flange connection DIN ISO 522 DIN 3337	F03	F05	F05	F05
Cv (GPM)	115.5	179.1	283.1	335.0



TORQUE FOR ACTUATOR SIZING IN-LB

Delta P -->	0÷90 PSI		>90÷230 PSI	
	to open	to close	to open	to close
1"	19	19	31	31
1 1/4"	22	22	35	35
1 1/2"	51	51	84	84
2"	70	70	115	115

PRESSURE-TEMPERATURE CHART



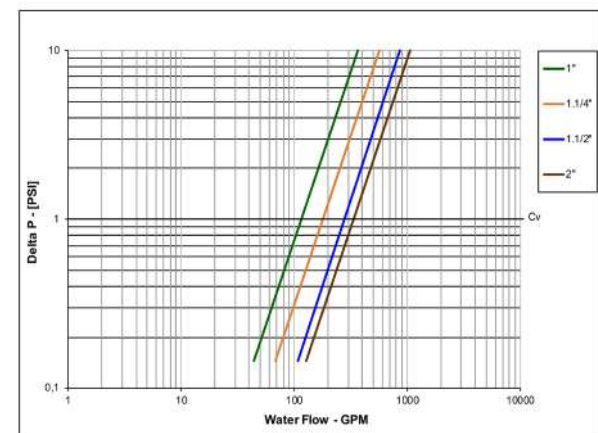
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE DROP CHART





s.6441 NPT

**Female/Female
1/2" - 4"
brass trim, ISO 5211**

More and more automation is required at all levels in our society and the s.64 **RuB** range is the answer to all needs for reliable actuated ball valve. It features special seat design to automatically compensate for wear and it has successfully passed 100,000 cycle* life tests.

You can purchase the valve alone or with the **RuB** actuator already mounted.

*All sizes up to 2" included



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Integrated sturdy ISO 5211 flange allows direct mounting of electric and pneumatic actuators, with no bracket or coupling required. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- 600 PSI up to 2", 450 PSI over 2" non-shock cold working pressure
- -4°F to +350°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- S.64 configuration featuring EN 10226-1, ISO 228 parallel female by female threads, plated body and brass trim
- Stainless steel trim (s.6439)
- Configuration for use with slurries or liquid bearing abrasive particles
- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact power electric actuator for some sizes
- Manual lockable handle



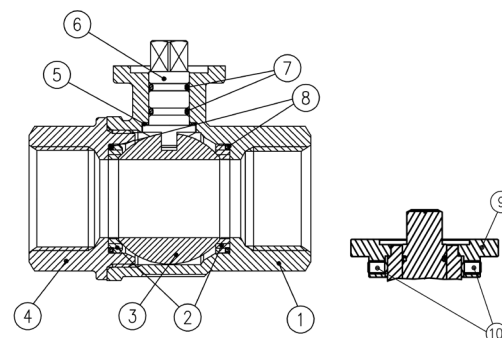
s.6441 NPT XCES6441 - 5466

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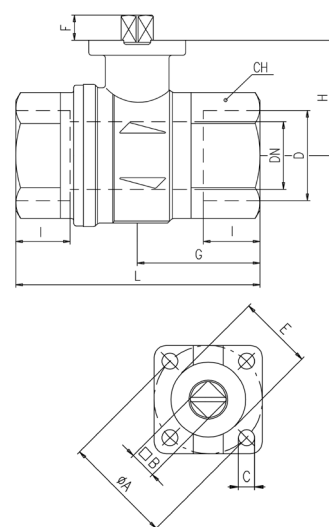


ACTUATION

Part description		Q.ty	Material
1	Unplated body	1	CW617N
2	Ball seat	2	PTFE graphite filled 15%
3	Chrome plated ball	1	CW617N
4	Unplated end-cap	1	CW617N
5	Washer	1	PTFE carbon filled 25%
6	Nickel plated stem O-ring design	1	CW617N
7	O-Ring	2	FPM
8	O-Ring	2	FPM
9	Black anodized flange (only from 2 1/2" to 4")	1	Aluminum
10	Grub screw (only from 2 1/2" to 4")	2	C4C (EN10263-2)



Code	S64D41	S64E41	S64F41	S64G41	S64H41	S64I41	S95L41AM	S95M41AM	S95N41AM
Size (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (inch)	0.59	0.787	0.984	1.259	1.575	1.968	2.520	2.992	3.937
I (inch)	0.61	0.708	0.826	0.905	0.964	1.043	1.26	1.378	1.634
L (inch)	2.598	2.933	3.562	4.094	4.606	5.314	6.142	6.969	8.504
G (inch)	1.201	1.456	1.791	2.047	2.322	2.657	3.071	3.484	4.252
H (inch)	1.22	1.515	1.673	2.185	2.441	2.716	3.502	3.779	4.366
CH (inch)	1.063	1.259	1.614	1.968	2.165	2.756	3.346	3.898	4.921
ØA (inch)	1.417	1.417	1.417	1.968	1.968	1.968	2.756	2.756	2.756
□B (inch)	0.354	0.354	0.354	0.551	0.551	0.551	0.669	0.669	0.669
C (inch)	0.22	0.22	0.22	0.259	0.259	0.259	0.335	0.335	0.335
E (inch)	0.984	0.984	0.984	1.378	1.378	1.378	2.165	2.165	2.165
F (inch)	0.295	0.334	0.334	0.57	0.57	0.57	0.709	0.709	0.709
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03	F05	F05	F05	F07	F07	F07
Cv (GPM)	32.3	69.3	115.5	179.1	283.1	335	596.2	896.5	1305.5



TORQUE FOR ACTUATOR SIZING IN-LB

Delta P -->	0÷200 PSI		600 PSI (450 PSI over 2")	
Valve size	to open	to close	to open	to close
1/2"	25	15	25	15
3/4"	33	20	33	20
1"	62	37	62	37
1 1/4"	104	111	121	111
1 1/2"	220	180	273	180
2"	262	222	327	222
2 1/2"	372	372	929	929
3"	902	902	1062	1062
4"	1646	1646	1991	1991

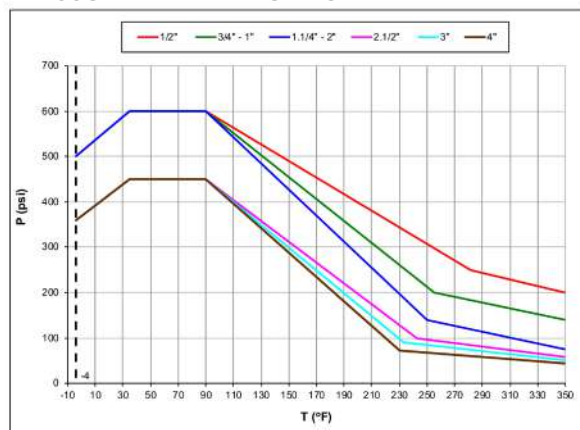
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

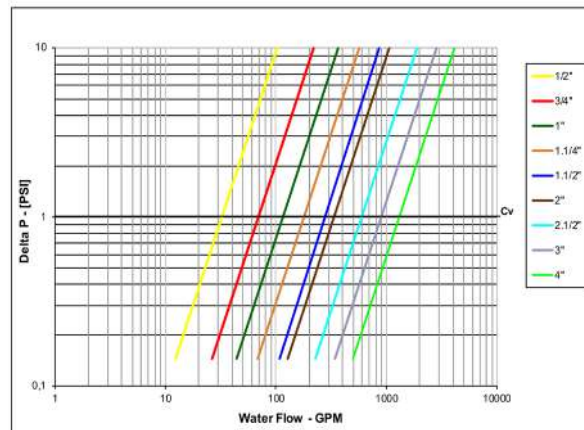
If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.6500

**Female/Female
actuator mounting
full port 1/2" - 1 1/4"
hot forged brass ball valve**



QUALITY

- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- 100% seal test guaranteed in according to EN 12266-1 RATE A (intended when the product is in brand new condition)

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double EPDM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design and wear compensation design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

OPERATING MECHANISM

- Integrated sturdy ISO 5211 flange allows direct mounting of electric and pneumatic actuators, with no bracket or coupling required. See RuB line of electric and pneumatic actuators

OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact power electric actuator for some sizes

FLOW

- Full port to DIN 3357 for maximum flow

WORKING PRESSURE & TEMPERATURE

- Shell rating: 40 bar (600 PSI) non shock cold working pressure
- Seat rating: Delta P max permissible 16 bar (230 PSI) non shock cold working pressure
- -20°C to +150°C (-4°F to +302°F)
- * Limitations for potable water use: 10 bar (Kg/cm²) non- shock cold working pressure and +2°C / +65°C temperature (occasional excursions up to 85°C are permitted for a period of 1 h maximum)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design
- NPT taper ANSI B.1.20.1 female by female threads, unplated body

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- Attestation de Conformité Sanitaire (France)
- DVGW Hygienic suitability (Germany)
- Water Regulations Advisory Scheme (United Kingdom)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.



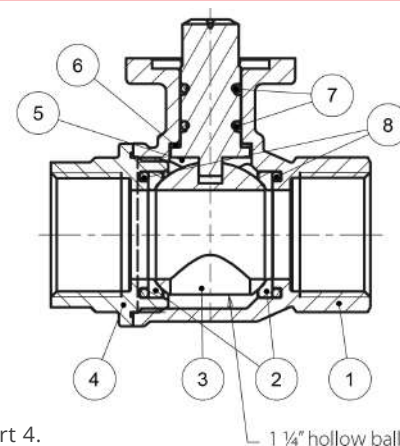
s.6500 XCES6500 - 5466

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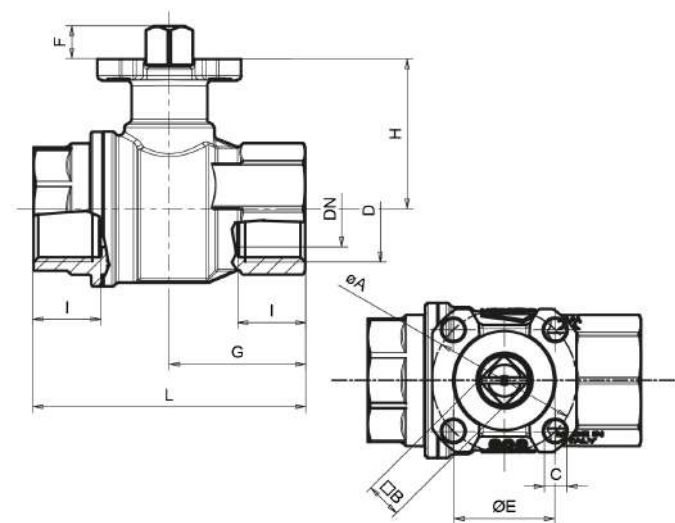
ACTUATION

	Part description	Q.ty	Material
1	Nickel plated body (external treatment)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole (rinse hole on sizes from 3/4" up to 1 1/4")	1	CW617N
4	Nickel plated end-cap (external treatment)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Washer	1	PTFE carbon filled 25%
7	O-Ring	2	EPDM
8	O-Ring	2	EPDM



DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Ball valves s.65 size 1 1/4" are marked CE as follows: CE Cat I-A

Code	S65D00	S65E00	S65F00	S65G00
D (inch)	1/2"	3/4"	1"	1 1/4"
DN (mm)	15	20	25	32
I	15.5	17	21	23
L	63.5	68	85	97
G	31.5	34	42.5	48.5
ØA	36	36	36	36
□B (mm)	9	9	9	9
C	5.6	5.6	5.6	5.6
ØE	25	25	25	25
F	7.3	8.3	8.3	8.3
H	31	38	41.3	48
CH	25	31	40	49
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03	F03
Kv (m3/h)	28	36	62	79



TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0÷16 bar	
Valve size	to open	to close
1/2"	3,5	3
3/4"	4,2	3,7
1"	4,5	4
1 1/4"	5	4,5

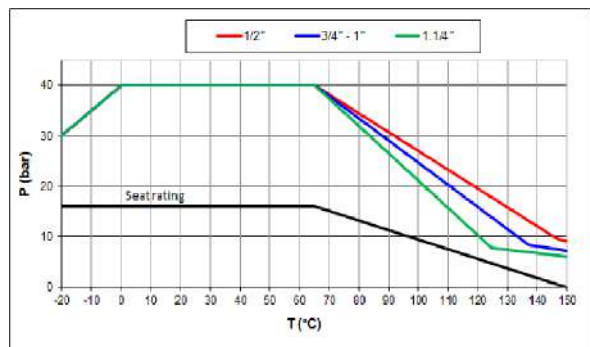
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

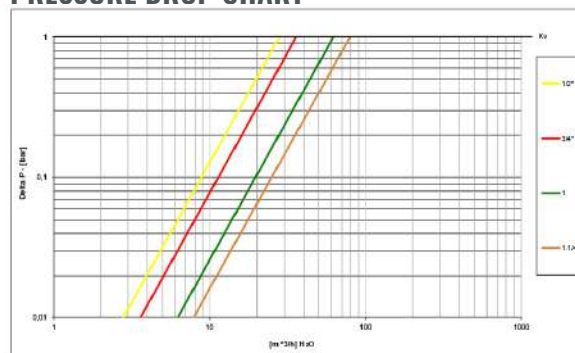
If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.6541 NPT

**Female/Female
actuator mounting
full port 1/2" - 1 1/4"
hot forged brass ball valve**



QUALITY

- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- 100% seal test guaranteed in according to EN 12266-1 RATE A (intended when the product is in brand new condition)

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double EPDM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design and wear compensation design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

OPERATING MECHANISM

- Integrated sturdy ISO 5211 flange allows direct mounting of electric and pneumatic actuators, with no bracket or coupling required. See RuB line of electric and pneumatic actuators

OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact power electric actuator for some sizes

FLOW

- Full port to DIN 3357 for maximum flow

WORKING PRESSURE & TEMPERATURE

- Shell rating: 40 bar (600 PSI) non shock cold working pressure
- Seat rating: Delta P max permissible 16 bar (230 PSI) non shock cold working pressure
- -20°C to +150°C (-4°F to +302°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design
- NPT taper ANSI B.1.20.1 female by female threads, unplated body

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.



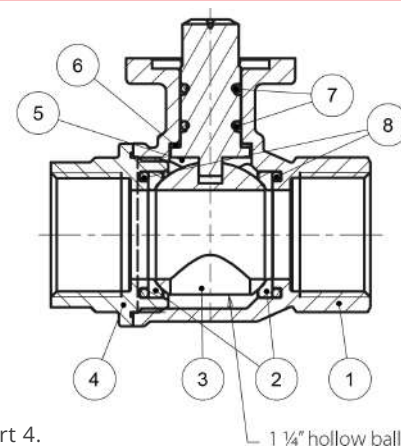
s.6541 NPT XCES6541 - 5466

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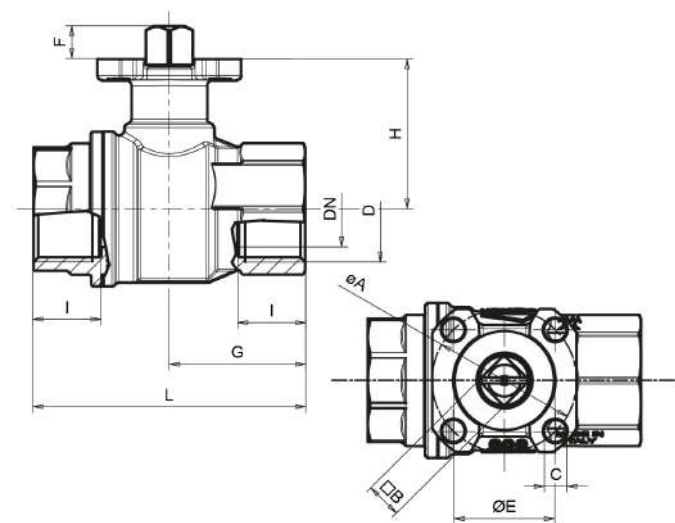
ACTUATION

Part description		Q.ty	Material
1	Unplated body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole (rinse hole on sizes from 3/4" up to 1 1/4")	1	CW617N
4	Unplated end-cap	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Washer	1	PTFE carbon filled 25%
7	O-Ring	2	EPDM
8	O-Ring	2	EPDM



DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Ball valves s.65 size 1 1/4" are marked CE as follows: CE Cat I-A

Code	S65D41	S65E41	S65F41	S65G41
D (inch)	1/2"	3/4"	1"	1 1/4"
DN (inch)	0.59	0.79	0.98	1.26
I (inch)	0.61	0.67	0.83	0.91
L (inch)	2.5	2.68	3.35	3.82
G (inch)	1.24	1.34	1.67	1.91
ØA (inch)	1.42	1.42	1.42	1.42
□B (inch)	0.35	0.35	0.35	0.35
C (inch)	0.22	0.22	0.22	0.22
ØE (inch)	0.98	0.98	0.98	0.98
F (inch)	0.29	0.33	0.33	0.33
H (inch)	1.22	1.50	1.63	1.89
CH (inch)	0.98	1.22	1.57	1.93
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03	F03
CV (GPM)	32.30	41.60	71.60	91.30



TORQUE FOR ACTUATOR SIZING IN-LB

Delta P -->	0÷230 PSI	
	to open	to close
Valve size		
1/2"	31	27
3/4"	37.5	33
1"	40	35.5
1 1/4"	44.5	40

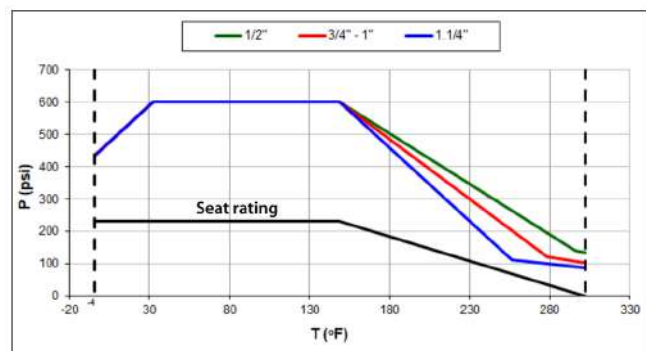
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

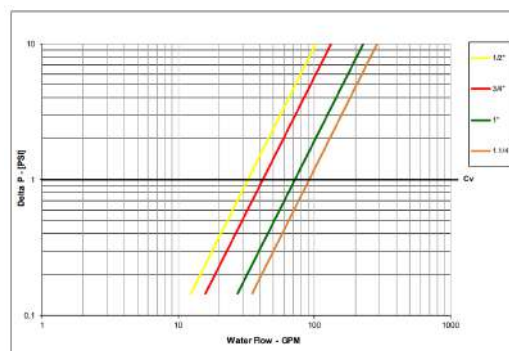
If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.6550 BSPT

**Female/Female
actuator mounting
full port 1/2" - 1"
hot forged brass ball valve**



QUALITY

- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- 100% seal test guaranteed in according to EN 12266-1 RATE A (intended when the product is in brand new condition)

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double EPDM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design and wear compensation design

THREADS

- EN 10226-2, ISO 7/1, BS 21 BSPT taper female by female threads

OPERATING MECHANISM

- Integrated sturdy ISO 5211 flange allows direct mounting of electric and pneumatic actuators, with no bracket or coupling required. See RuB line of electric and pneumatic actuators

OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact power electric actuator for some sizes

FLOW

- Full port to DIN 3357 for maximum flow

WORKING PRESSURE & TEMPERATURE

- Shell rating: 40 bar (600 PSI) non shock cold working pressure
- Seat rating: Delta P max permissible 16 bar (230 PSI) non shock cold working pressure
- -20°C to +150°C (-4°F to +302°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design
- NPT taper ANSI B.1.20.1 female by female threads, unplated body

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.



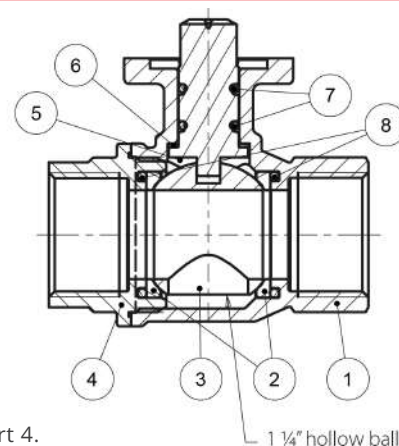
s.6550 BSPT XCES6550 - 5466

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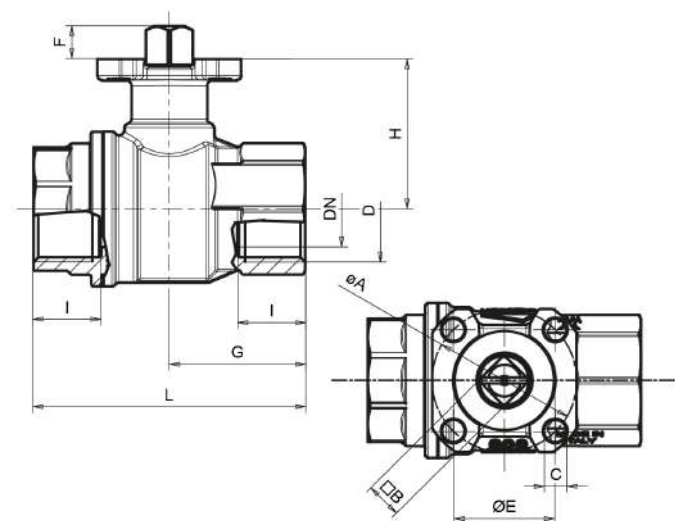
ACTUATION

	Part description	Q.ty	Material
1	Nickel plated body (external treatment)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole (rinse hole on sizes from 3/4" up to 1 1/4")	1	CW617N
4	Nickel plated end-cap (external treatment)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Washer	1	PTFE carbon filled 25%
7	O-Ring	2	EPDM
8	O-Ring	2	EPDM



DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

Code	S65D50	S65E50	S65F50
D (inch)	1/2"	3/4"	1"
DN (mm)	15	20	25
I	15.5	17	21
L	63.5	68	85
G	31.5	34	42.5
ØA	36	36	36
□B (mm)	9	9	9
C	5.6	5.6	5.6
ØE	25	25	25
F	7.3	8.3	8.3
H	31	38	41.3
CH	25	31	40
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03
Kv (m3/h)	28	36	62



TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0÷16 bar	
Valve size	to open	to close
1/2"	3,5	3
3/4"	4,2	3,7
1"	4,5	4

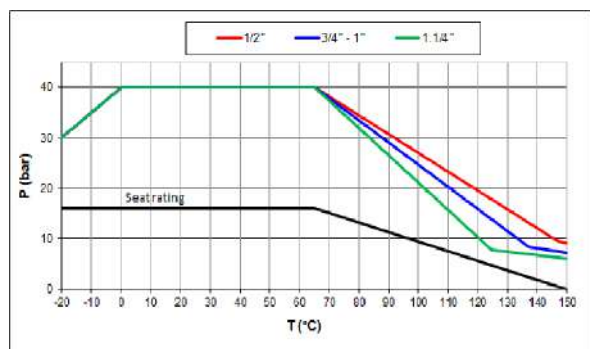
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

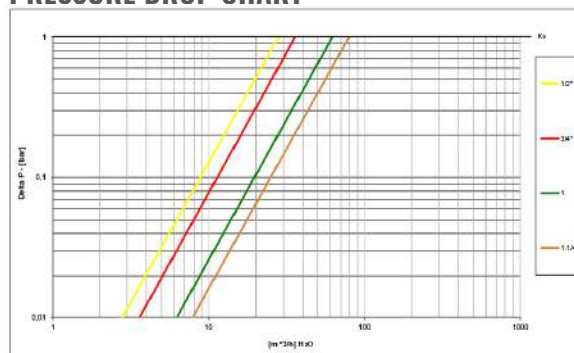
If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.7200 3-way 4 seats (diverting)

Female/Female/Female
1/2" - 1"
EN 10226-1, ISO 5211

The RuB S.7200 is the right choice for fluid diversion and is designed with robust maintenance-free components ensuring ease of operation and safety. With a simple 90° turn, you can divert flow from one downstream outlet to the other. It combines traditional manual operation with modern automation. Our s.72 multi-port valves can reduce the number of valves required in piping systems and can significantly lower overall costs by allowing the replacement of two or three conventional straight-line valves, eliminating excess fittings and simplifying automation.



QUALITY

- Electronic 100% seal test guaranteed for maximum safety
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO5211 / DIN3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way L-port design for flow diversion

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Stem slot shows ball position

SEALING

- Four seats design for mixing of various fluids in the system
- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Integrated sturdy ISO 5211 flange allows direct mounting of actuators. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- 20 bar (300 PSI) non-shock cold working pressure
- -20°C to +150°C (-4°F to +302°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve.

UPON REQUEST

- Custom design
- Stainless steel stem
- Configurations with 4 seats & T-port (s.7300) or 2 seats & L-port (s.7600)

PED DIRECTIVE

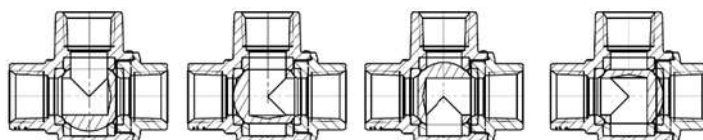
- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking.

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

S.72 3-way "L" port operating positions



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Lockable handle as accessory or already mounted (s.7200L)
- Various actuator linkage kit



s.7200 XCES7200 - 5466

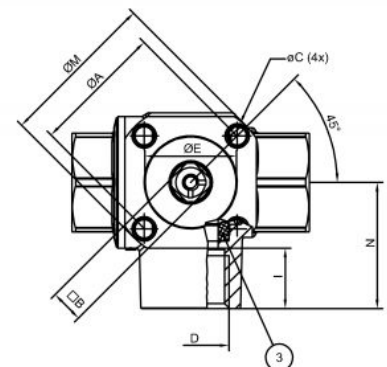
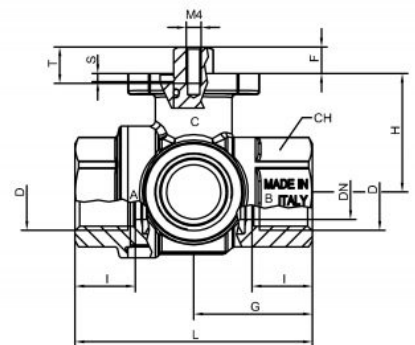
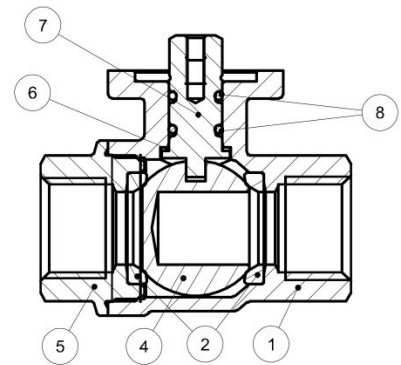
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ACTUATION

	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Seat	2	PTFE
4	Chrome plated ball	1	CW617N
5	Nickel plated end-cap (external nickel plated, unplated inside)	1	CW617N
6	Washer	1	PTFE carbon filled 25%
7	Nickel plated stem O-ring design	1	CW617N
8	O-Ring	2	FPM

Code	S72D00	S72E00	S72F00
D (inch)	1/2"	3/4"	1"
DN (mm)	15	20	25
I (mm)	16.5	19	22.5
L (mm)	65	79	92.5
G (mm)	32.5	39.5	46.5
H (mm)	32.5	39.5	42.5
N (mm)	34.5	42	49.5
ØA (mm)	36	36	36
ØC (mm)	Ø5.6	Ø5.6	Ø5.6
ØE (mm)	25	25	25
Square B (mm)	9	9	9
ØM (mm)	43.4	43.4	43.4
S (mm)	2.2	2.2	2.2
T (mm)	10	10	10
F (mm)	7.3	8.3	8.3
CH (mm)	27	32	41
Flange connection DIN ISO 5211 DIN 3337	F03	F03	F03
P (ISO 262 Thread)	M4	M4	M4



TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0÷16 bar	
Valve size	to open	to close
1/2"	10.5	10.5
3/4"	13	13
1"	29.5	29.5

TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5



s.7241 NPT 3-way 4 seats (diverting)

Female/Female/Female
1/2" - 1"

The **RuB** s.7641 is the right choice for fluid diversion and is designed with robust maintenance-free components ensuring ease of operation and safety. With a simple 90° turn, you can divert flow from one downstream outlet to the other. It combines traditional manual operation with modern automation. It is also very easy to convert from its sturdy lever handle to ISO 5211 actuator flange assembly. It features low operating torque and a special wear reducing self-compensating valve seat design that meets our 100,000 cycle life test requirement. The valve can be purchased separately, with handle or with a **RuB** actuator already mounted.



QUALITY

- Electronic 100% seal test guaranteed
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO5211 / DIN3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way L- port design for flow diversion

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Stem slot shows ball position

SEALING

- Four seats design for mixing of various fluids in the system
- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Integrated sturdy ISO 5211 flange allows direct mounting of actuators. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- 300 PSI non-shock cold working pressure
- -4°F to +302°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

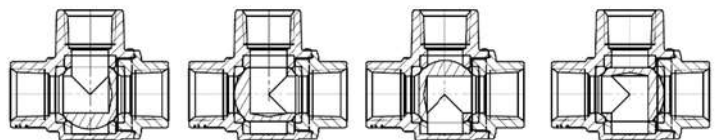
- Custom design
- Stainless steel stem
- Configurations with 4 seats & T-port (s.7341) or 2 seats & L-port (s.7641)

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

S.72 3-way "L" port operating positions



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Lockable handle as accessory or already mounted (s.7241L)
- Various actuator linkage kit



s.7241 NPT XCES7241 - 5466

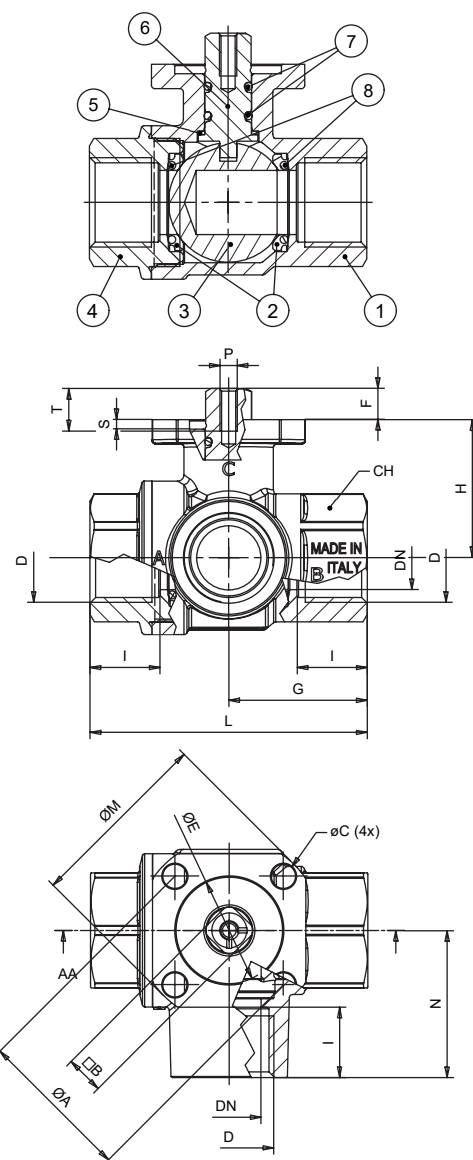
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ACTUATION

Part description		Q.ty	Material
1	Sand blasted unplated body	1	CW617N
2	Seat	2	PTFE
3	Seat	2	PTFE
4	Chrome plated ball	1	CW617N
5	Sand blasted unplated end cap	1	CW617N
6	Washer	1	PTFE carbon filled 25%
7	Nickel plated stem O-ring design	1	CW617N
8	O-Ring	2	FPM

Code	S72D41	S72E41	S72F41
D (inch)	1/2"	3/4"	1"
DN (inch)	0.591	0.787	0.984
I (inch)	0.610	0.709	0.827
L (inch)	2.559	3.110	3.642
G (inch)	1.280	1.555	1.831
H (inch)	1.820	1.555	1.673
N (inch)	1.358	1.654	1.949
ØA (inch)	1.417	1.417	1.417
ØC (inch)	Ø 0.205 (M6)	Ø 0.205 (M6)	Ø 0.205 (M6)
ØE (inch)	0.984	0.984	0.984
Square B (inch)	0.354	0.354	0.354
ØM (inch)	1.709	1.709	1.709
S (inch)	0.087	0.087	0.087
T (inch)	0.394	0.394	0.394
F (inch)	0.287	0.327	0.327
CH (inch)	1.063	1.260	1.614
Flange connection DIN ISO 5211 DIN 3337	F03	F03	F03



TORQUE FOR ACTUATOR SIZING IN-LB

Delta P -->	0÷230 PSI	
	to open	to close
1/2"	93	93
3/4"	115	115
1"	261	261

TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5



s.7300 3-way 4 seats T-port

Female/Female/Female
1/2" - 2"
EN 10226-1, ISO 5211



The s.7300 series has a ball seal at every port, and offers a wide variety of possible flow configurations. Positive shut-off can be achieved at any of the exiting ports.

By specifying the appropriate ball port configuration, the T-port design allows flow direction to be adjusted for virtually any situation and is ideal for mixing applications.

Our s.73 multi-port valves can reduce the number of valves required in piping systems and can significantly lower overall costs by replacing two or three conventional 2-way valves, eliminating excess fittings, saving space and simplifying automation.



QUALITY

- Electronic 100% seal test guaranteed
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way T- port design for flow mixing

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Stem slot shows ball position

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design
- Four seats design for mixing of various fluids in the system

THREADS

- EN 10226-1/ ISO 228 parallel female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Integrated sturdy ISO 5211 flange allows direct mounting of actuators. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- 20 bar (300 PSI) non-shock cold working pressure
- -20°C to +150°C (-4°F to +302°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design
- Stainless steel stem
- Configurations with 2 seats & L-port (s.7600)

PED DIRECTIVE

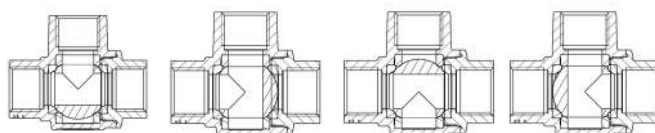
- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking.

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

s73 3-way "T" port operating positions



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Lockable handle as accessory or already mounted (s.7300L)
- Various actuator linkage kit

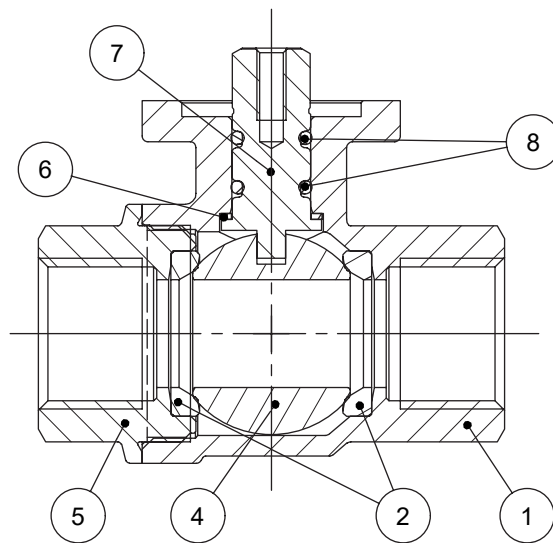


s.7300 XCES7300 - 5466

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ACTUATION



	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Seat	2	PTFE
4	Chrome plated ball	1	CW617N
5	Nickel plated end cap (external nickel plated, unplated inside)	1	CW617N
6	Washer	1	PTFE carbon filled 25%
7	Nickel plated stem O-ring design	1	CW617N
8	O-Ring	2	FPM

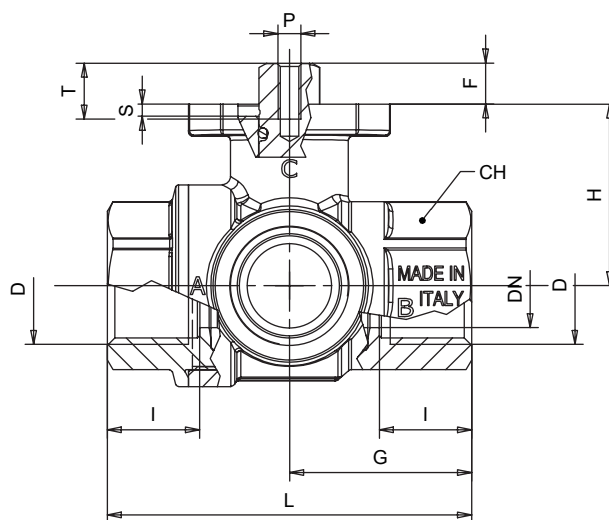
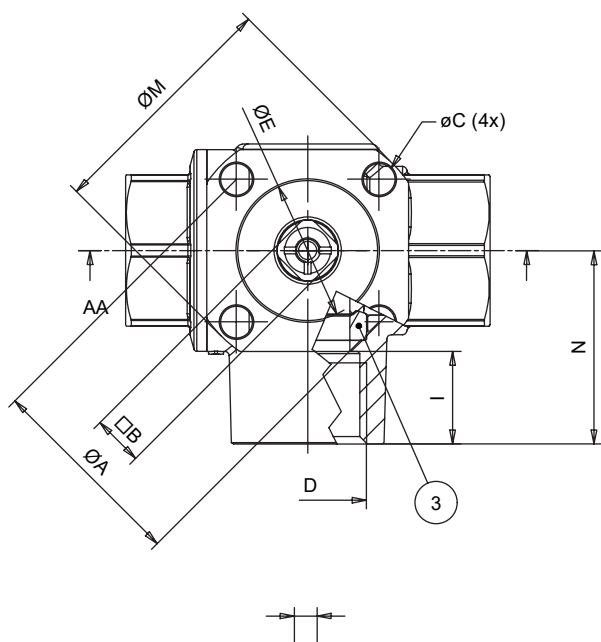
TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0÷16 bar	
	to open	to close
1/2"	10,5	10,5
3/4"	13	13
1"	22,0	22,0
1 1/4"	14,0	14,0
1 1/2"	23,0	23,0
2"	38,0	38,0

TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media. If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

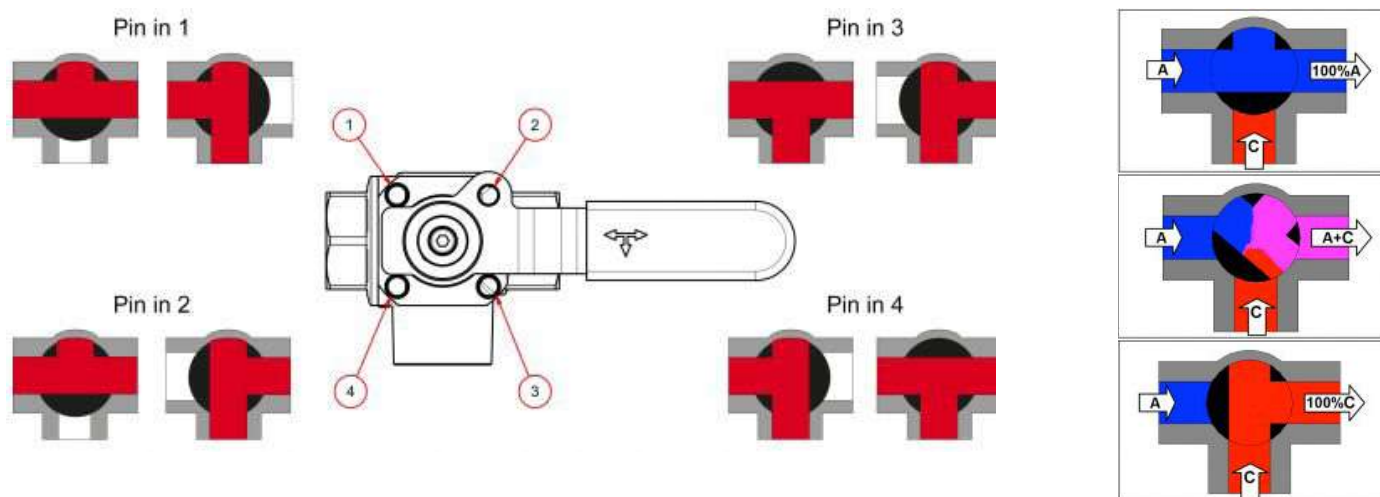


Code	S73D00	S73E00	S73F00	S73G00	S73H00	S73I00
D (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	15	20	25	30.4	38	48
I (mm)	16.5	19	22.5	25	26	29
L (mm)	65	79	92.5	109.5	126	150
G (mm)	32.5	39.5	46.5	55	63	75
H (mm)	32.5	39.5	42.5	56	62.5	72
N (mm)	34.5	42	49.5	60	69	82
ØA (mm)	36	36	36	50	50	50
ØC (mm)	Ø5.6	Ø5.6	Ø5.6	Ø6.6	Ø6.6	Ø6.6
ØE (mm)	25	25	25	35	35	35
Square B (mm)	9	9	9	14	14	14
ØM (mm)	43.4	43.4	43.4	60.8	60.8	60.8
S (mm)	2.2	2.2	2.2	3.2	3.2	3.2
T (mm)	10	10	10	14	14	14
F (mm)	7.3	8.3	8.3	14.5	14.5	14.5
CH (mm)	27	32	41	50	55	70
Flange connection DIN ISO 5211 DIN 3337	F03	F03	F03	F05	F05	F05
P (ISO 262 Thread)	M4	M4	M4	M5	M5	M5
Kv (m³/h) straight pattern	9.7	28.2	43.3	57.0	94.5	161.0
Kv (m³/h) 90° pattern	5.3	11.6	16.8	26.7	43.3	69.2

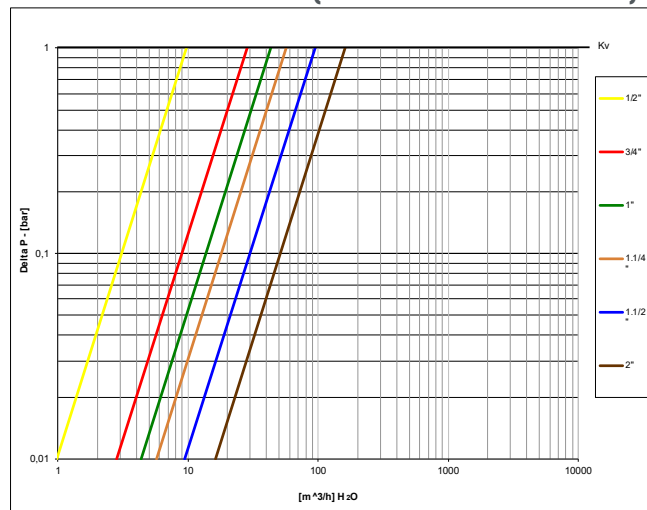


With the configuration of T-port a stop pin can be fixed in any position of the 4 provided in the flange (1, 2, 3 or 4) and the lever can be rotated freely through 90°, the flow assumes the directions indicated in the diagram; in case of need the lever can be pulled upwards and you can reach any of the four possible positions. An alternative is to mount 2 pins in 2 near holes (e.g. 1 and 2). In this case, the valve does not assume a predetermined position but can be actuated just by pulling the lever towards the top.

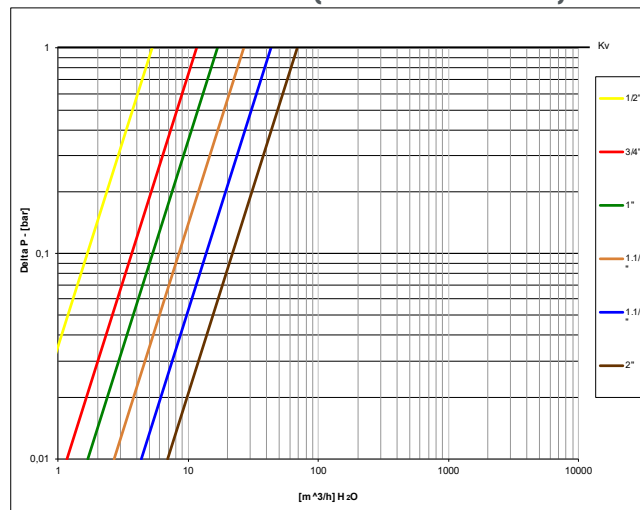
The valve allows also to block the lever thanks to the addition of a lock on the lever's protrusion (in the drawing you can see position 2). The mixing configuration is achieved by placing the pin in position 2. The flows to be mixed enter through A and C and exit through A+C.



PRESSURE DROP CHART (STRAIGHT FLOW PATTERN)



PRESSURE DROP CHART (90° FLOW PATTERN)





s.7341 NPT 3-way 4 seats T-port

Female/Female/Female
1/2" - 2"
ISO 5211

The s.7341 series has a ball seal at every port, and offers a wide variety of possible flow configurations. Positive shut-off can be achieved at any of the exiting ports.

By specifying the appropriate ball port configuration, the T-port design allows flow direction to be adjusted for virtually any situation and is ideal for mixing applications.

Our s.73 multi-port valves can reduce the number of valves required in piping systems and can significantly lower overall costs by replacing two or three conventional 2-way valves, eliminating excess fittings, saving space and simplifying automation.



QUALITY

- Electronic 100% seal test guaranteed
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way T- port design for flow mixing

STEM

- Blowout-proof nickel plated brass stem
- Maintenance- free, double FPM O-rings at the stem for maximum safety
- Stem slot shows ball position

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design
- Four seats design for mixing of various fluids in the system

THREADS

- NPT taper ANSI B.1.20.1 female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Integrated sturdy ISO 5211 flange allows direct mounting of actuators. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- 300 PSI non-shock cold working pressure
- -4°F to +302°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

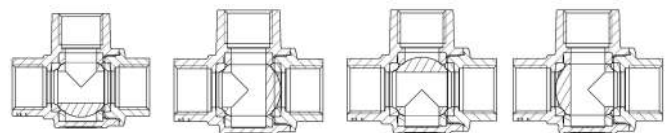
- Custom design
- Stainless steel stem
- Configuration with 2 seats & L-port (s.7641)

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

s73 3-way "T" port operating positions



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Lockable handle as accessory or already mounted (s.7341L)
- Various actuator linkage kit

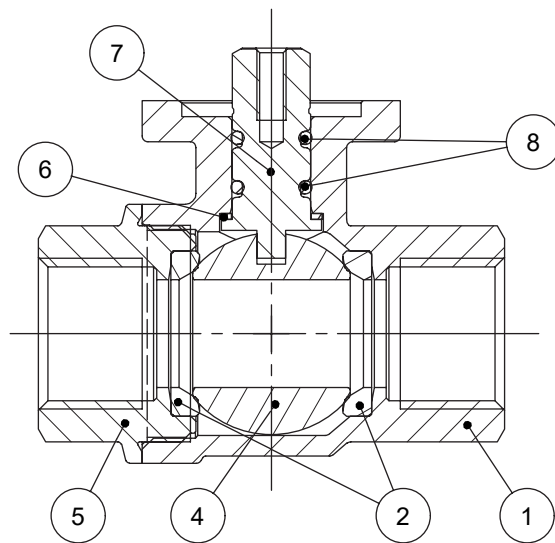


s.7341 NPT XCES7341 - 5466

Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.



ACTUATION



	Part description	Q.ty	Material
1	Sand blasted unplated body	1	CW617N
2	Seat	2	PTFE
3	Seat	2	PTFE
4	Chrome plated ball	1	CW617N
5	Sand blasted unplated end-cap	1	CW617N
6	Washer	1	PTFE carbon filled 25%
7	Nickel plated stem O-ring design	1	CW617N
8	O-Ring	2	FPM

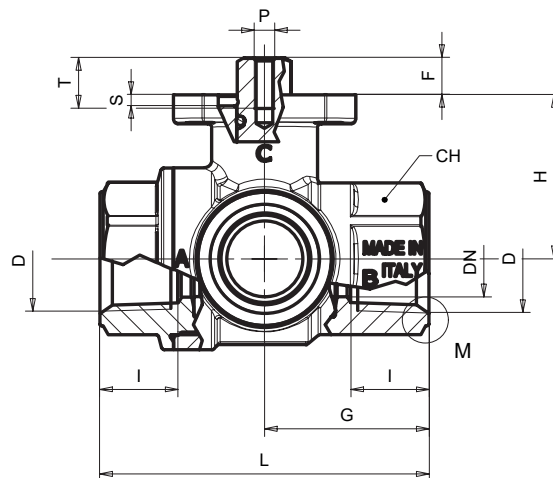
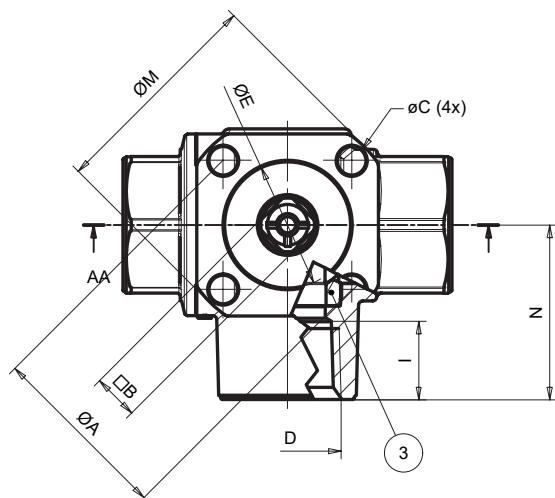
TORQUE FOR ACTUATOR SIZING IN-LB

Delta P -->	0÷230 PSI	
	to open	to close
1/2"	93	93
3/4"	115	115
1"	195	195
1 1/4"	124	124
1 1/2"	204	204
2"	336	336

TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media. If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

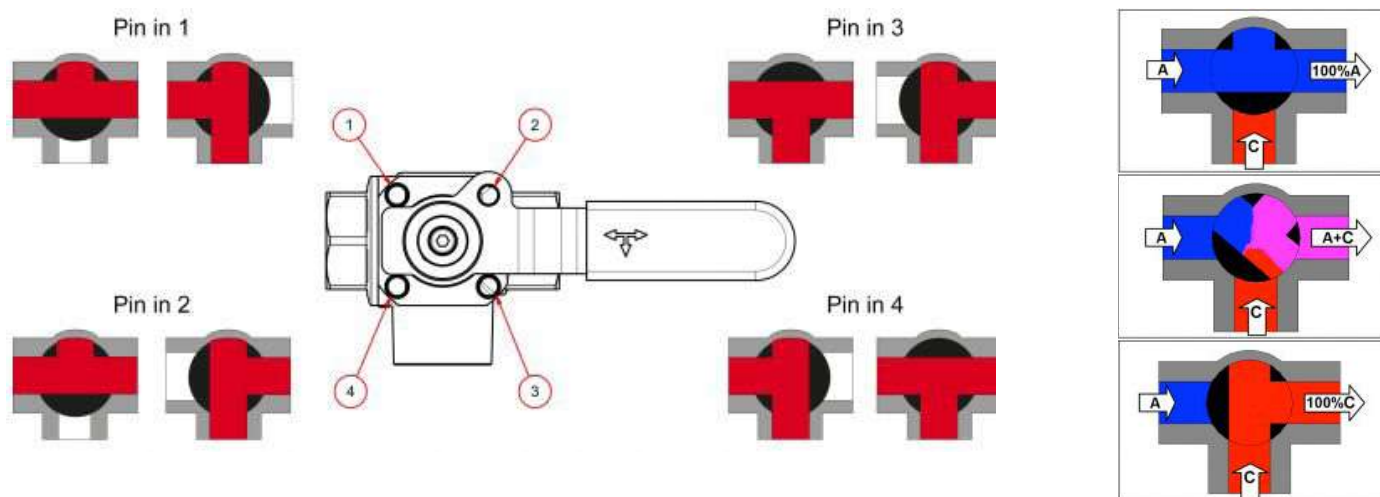


Code	S73D41	S73E41	S73F41	S73G41	S73H41	S73I41
D (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (inch)	0.591	0.787	0.984	1.197	1.496	1.890
I (inch)	0.610	0.709	0.827	0.906	0.965	1.043
L (inch)	2.559	3.110	3.642	4.311	4.961	5.906
G (inch)	1.280	1.555	1.831	2.165	2.480	2.953
H (inch)	1.280	1.555	1.673	2.205	2.460	2.854
N (inch)	1.358	1.654	1.949	2.362	2.717	3.228
ØA (inch)	1.417	1.417	1.417	1.969	1.969	1.969
ØC (inch)	Ø 0.22	Ø 0.22	Ø 0.22	Ø 0.26	Ø 0.26	Ø 0.26
ØE (inch)	0.984	0.984	0.984	1.378	1.378	1.378
Square B (inch)	0.354	0.354	0.354	0.551	0.551	0.551
ØM (inch)	1.709	1.709	1.709	2.394	2.394	2.394
S (inch)	0.087	0.087	0.087	0.126	0.126	0.126
T (inch)	0.394	0.394	0.394	0.551	0.551	0.551
F (inch)	0.287	0.327	0.327	0.571	0.571	0.571
CH (inch)	1.063	1.260	1.614	1.969	2.165	2.756
Flange connection DIN ISO 5211 DIN 3337	F03	F03	F03	F05	F05	F05
P (ISO 262 Th-read)	M4	M4	M4	M5	M5	M5
Cv (GPM) straight pattern	11.2	32.5	50.0	65.8	109.2	186
Cv (GPM) 90° pattern	6.1	13.4	19.5	30.9	50.0	80.0

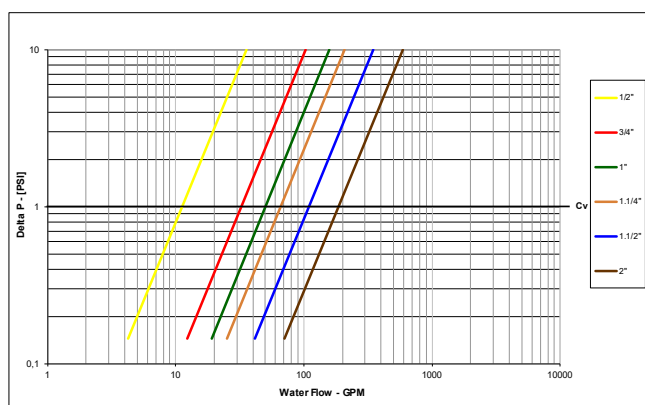


With the configuration of T-port a stop pin can be fixed in any position of the 4 provided in the flange (1, 2, 3 or 4) and the lever can be rotated freely through 90°, the flow assumes the directions indicated in the diagram; in case of need the lever can be pulled upwards and you can reach any of the four possible positions. An alternative is to mount 2 pins in 2 near holes (e.g. 1 and 2). In this case, the valve does not assume a predetermined position but can be actuated just by pulling the lever towards the top.

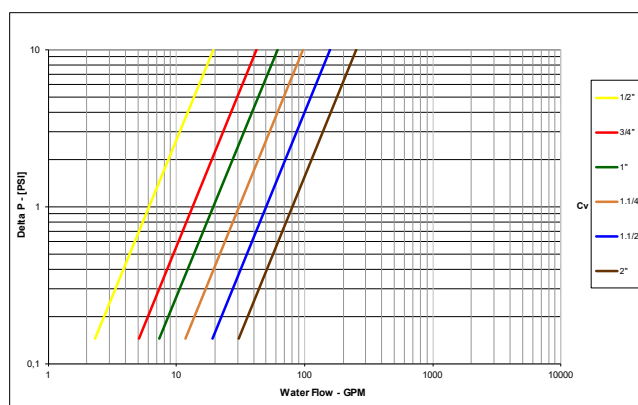
The valve allows also to block the lever thanks to the addition of a lock on the lever's protrusion (in the drawing you can see position 2). The mixing configuration is achieved by placing the pin in position 2. The flows to be mixed enter through A and C and exit through A+C.



PRESSURE DROP CHART (STRAIGHT FLOW PATTERN)



PRESSURE DROP CHART (90° FLOW PATTERN)





s.7350 3-way 4 seats T-port

Female/Female/Female
1/2" - 2"
EN 10226-1, ISO 5211

The s.7350 series has a ball seal at every port, and offers a wide variety of possible flow configurations. Positive shut-off can be achieved at any of the exiting ports.

By specifying the appropriate ball port configuration, the T-port design allows flow direction to be adjusted for virtually any situation and is ideal for mixing applications.

Our s.73 multi-port valves can reduce the number of valves required in piping systems and can significantly lower overall costs by replacing two or three conventional 2-way valves, eliminating excess fittings, saving space and simplifying automation.



QUALITY

- Electronic 100% seal test guaranteed
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way T- port design for flow mixing

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Stem slot shows ball position

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design
- Four seats design for mixing of various fluids in the system

THREADS

- ISO 7/1, BS 21 BSPT taper female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Integrated sturdy ISO 5211 flange allows direct mounting of actuators. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- 20 bar (300 PSI) non-shock cold working pressure
- -20°C to +150°C (-4°F to +302°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design
- Stainless steel stem
- Configurations with 2 seats & L-port (s.7600)

PED DIRECTIVE

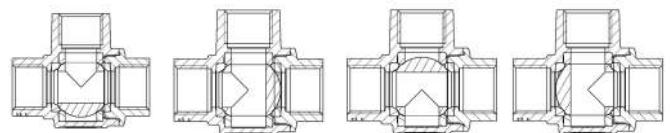
- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking.

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

s73 3-way "T" port operating positions



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Lockable handle as accessory or already mounted (s.7350L)
- Various actuator linkage kit

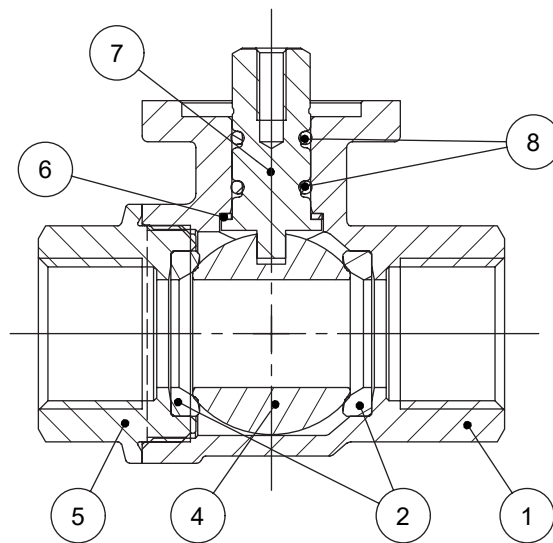


s.7350 BSPT XCES7350 - 5466

Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.



ACTUATION



	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Seat	2	PTFE
4	Chrome plated ball	1	CW617N
5	Nickel plated end cap (external nickel plated, unplated inside)	1	CW617N
6	Washer	1	PTFE carbon filled 25%
7	Nickel plated stem O-ring design	1	CW617N
8	O-Ring	2	FPM

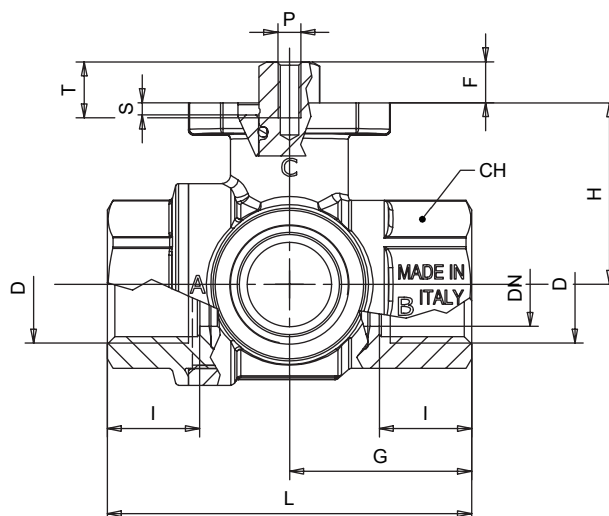
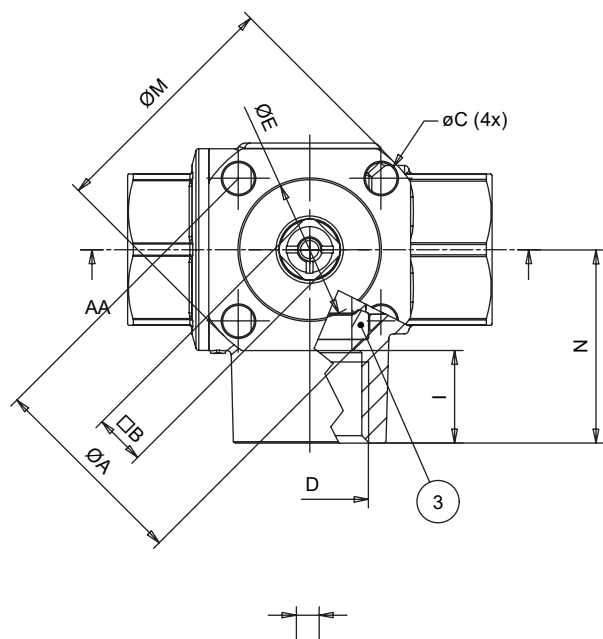
TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0÷16 bar	
	to open	to close
1/2"	10,5	10,5
3/4"	13	13
1"	22,0	22,0
1 1/4"	14,0	14,0
1 1/2"	23,0	23,0
2"	38,0	38,0

TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media. If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

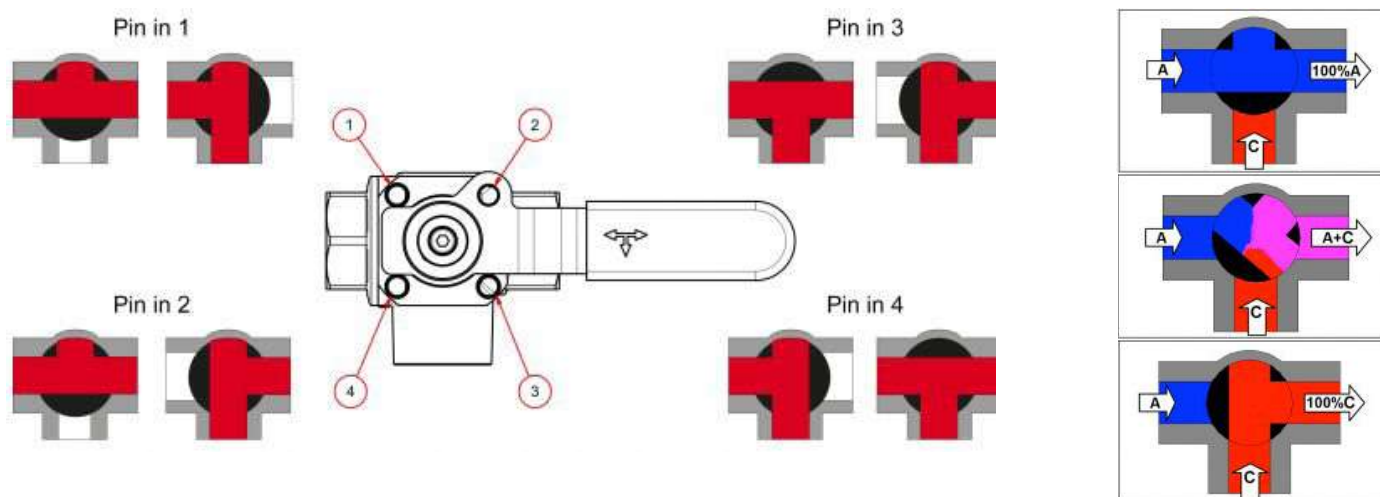


Code	S73D50	S73E50	S73F50	S73G50	S73H50	S73I50
D (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	15	20	25	30.4	38	48
I (mm)	16.5	19	22.5	25	26	29
L (mm)	65	79	92.5	109.5	126	150
G (mm)	32.5	39.5	46.5	55	63	75
H (mm)	32.5	39.5	42.5	56	62.5	72
N (mm)	34.5	42	49.5	60	69	82
ØA (mm)	36	36	36	50	50	50
ØC (mm)	Ø5.6	Ø5.6	Ø5.6	Ø6.6	Ø6.6	Ø6.6
ØE (mm)	25	25	25	35	35	35
Square B (mm)	9	9	9	14	14	14
ØM (mm)	43.4	43.4	43.4	60.8	60.8	60.8
S (mm)	2.2	2.2	2.2	3.2	3.2	3.2
T (mm)	10	10	10	14	14	14
F (mm)	7.3	8.3	8.3	14.5	14.5	14.5
CH (mm)	27	32	41	50	55	70
Flange connection DIN ISO 5211 DIN 3337	F03	F03	F03	F05	F05	F05
P (ISO 262 Th-read)	M4	M4	M4	M5	M5	M5
Kv (m³/h) straight pattern	9.7	28.2	43.3	57.0	94.5	161.0
Kv (m³/h) 90° pattern	5.3	11.6	16.8	26.7	43.3	69.2

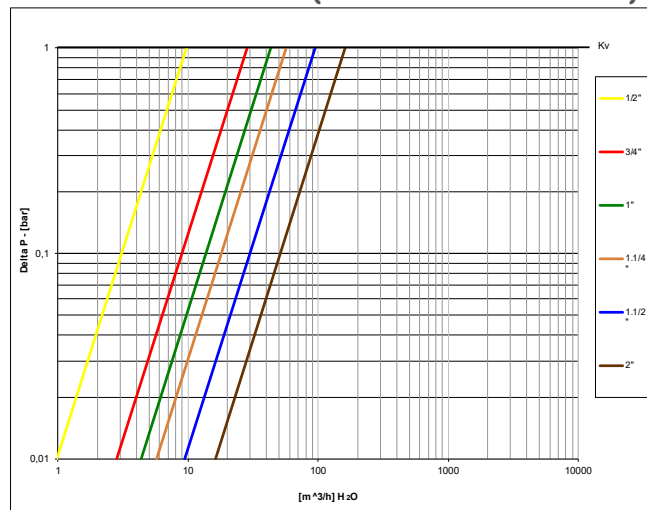


With the configuration of T-port a stop pin can be fixed in any position of the 4 provided in the flange (1, 2, 3 or 4) and the lever can be rotated freely through 90°, the flow assumes the directions indicated in the diagram; in case of need the lever can be pulled upwards and you can reach any of the four possible positions. An alternative is to mount 2 pins in 2 near holes (e.g. 1 and 2). In this case, the valve does not assume a predetermined position but can be actuated just by pulling the lever towards the top.

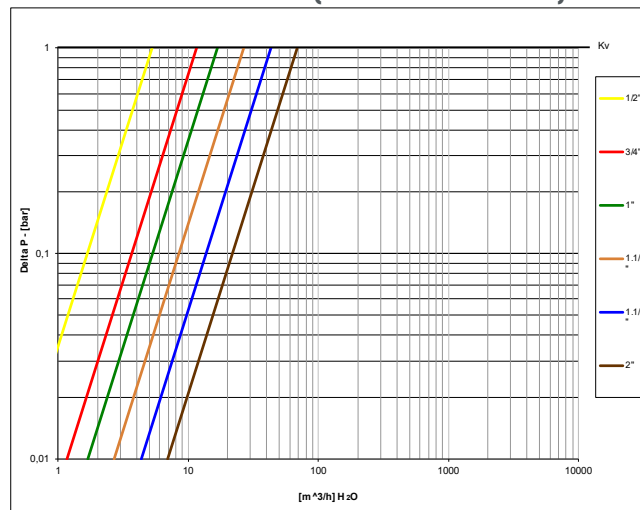
The valve allows also to block the lever thanks to the addition of a lock on the lever's protrusion (in the drawing you can see position 2). The mixing configuration is achieved by placing the pin in position 2. The flows to be mixed enter through A and C and exit through A+C.



PRESSURE DROP CHART (STRAIGHT FLOW PATTERN)



PRESSURE DROP CHART (90° FLOW PATTERN)





s.7600 3-way 2 seats L-port (diverting)

Female/Female/Female
1/2" - 2"
EN 10226-1, ISO 5211



The **RuB** s.7600 is the right choice for fluid diversion and is designed with robust maintenance-free components ensuring ease of operation and safety. With a simple 90° turn, you can divert flow from one downstream outlet to the other. It combines traditional manual operation with modern automation. It is also very easy to convert from its sturdy lever handle to ISO 5211 actuator flange assembly. It features low operating torque and a special wear reducing self-compensating valve seat design that meets our 100,000 cycle life test requirement. The valve can be purchased separately, with handle or with a **RuB** actuator already mounted.

QUALITY

- Electronic 100% seal test guaranteed for maximum safety
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO5211 / DIN3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way L-port design for flow diversion

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Stem slot shows ball position

SEALING

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Integrated sturdy ISO 5211 flange allows direct mounting of actuators. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- 30 Bar up to 1", 20 bar over 1", non-shock cold working pressure
- -20°C to +170°C (-4°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve.

UPON REQUEST

- Custom design
- Stainless steel stem
- Configuration with 4 seats, T-port (s.7300)

PED DIRECTIVE

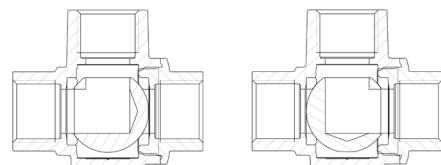
- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking.

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

S.76 3-way "L" port operating positions



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact Power electric actuator
- Lockable handle as accessory or already mounted (s.7600L)
- Various actuator linkage kit



s.7600 XCES7600 - 5466

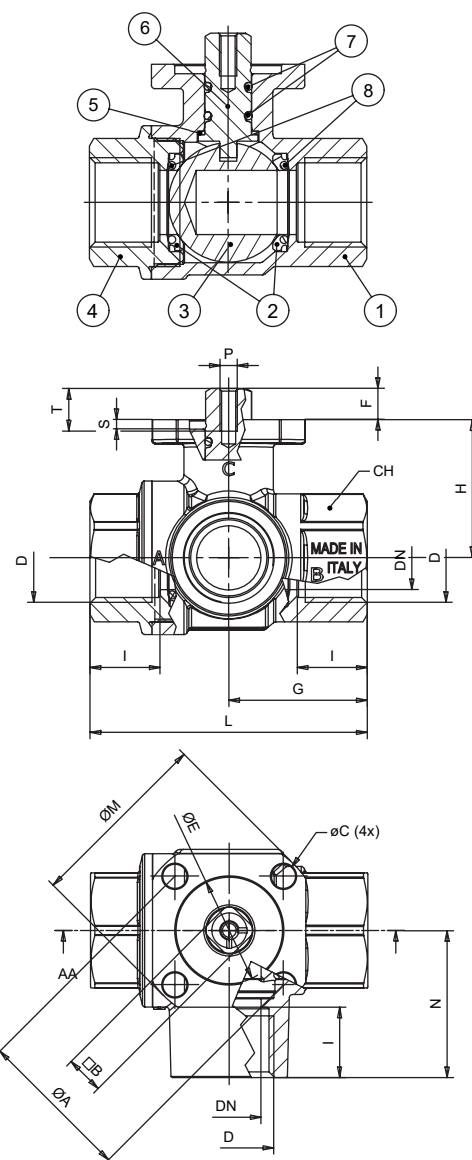
Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.



ACTUATION

Part description		Q.ty	Material
1	Sand blasted nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE graphite filled 15%, PTFE over 1"
3	Chrome plated ball	1	CW617N
4	Sand blasted nickel plated end cap (external nickel plated, unplated inside)	1	CW617N
5	Washer	1	PTFE carbon filled 25%
6	Nickel plated stem O-ring design	1	CW617N
7	O-Ring	2	FPM
8	O-Ring	2	FPM

Code	S76D00	S76E00	S76F00	S76G00	S76H00	S76I00
D (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	15	20	25	30.4	38	48
I (mm)	16.5	19	22.5	25	26	29
L (mm)	65	79	92.5	109.5	126	150
G (mm)	32.5	39.5	46.5	55	63	75
H (mm)	32.5	39.5	42.5	56	63.2	72
N (mm)	34.5	42	49.5	60	69	82
ØA (mm)	36	36	36	50	50	50
ØC (mm)	Ø5.6	Ø5.6	Ø5.6	Ø6.6	Ø6.6	Ø6.6
ØE (mm)	25	25	25	35	35	35
Square B (mm)	9	9	9	11	11	14
ØM (mm)	43.4	43.4	43.4	60.8	60.8	60.8
S (mm)	2.2	2.2	2.2	3.2	3.2	3.2
T (mm)	10	10	10	14	14	14
F (mm)	7.3	8.3	8.3	10	10	14.5
CH (mm)	27	32	41	50	55	70
Flange connection DIN ISO 5211 DIN 3337	F03	F03	F03	F05	F05	F05
P (ISO 262 Thread)	M4	M4	M4	M5	M5	M5
Kv (m³/h)	5.7	11.1	16.7	28.1	44.5	71.1



TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0÷16 bar	
	to open	to close
Valve size		
1/2"	3.5	3.5
3/4"	4.0	4.0
1"	4.5	4.5
1 1/4"	11.7	11.7
1 1/2"	21.5	21.5
2"	28	28

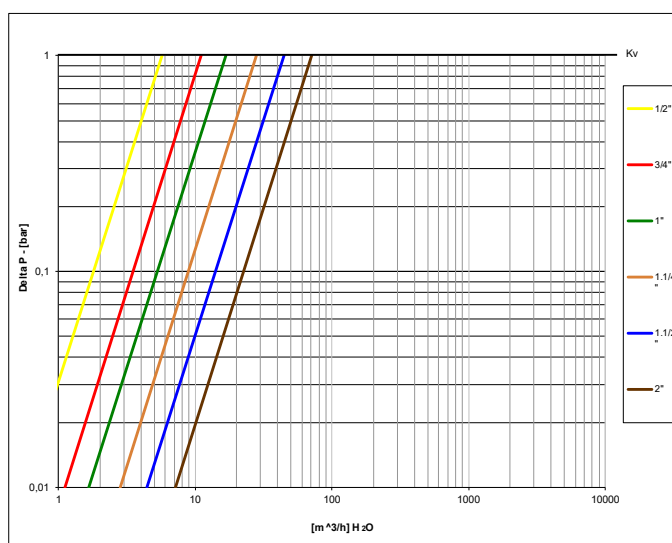
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE DROP CHART





s.7641 3-way 2 seats L-port (diverting)

Female/Female/Female
1/2" - 2"
EN 10226-1, ISO 5211

The **RuB** s.7641 is the right choice for fluid diversion and is designed with robust maintenance-free components ensuring ease of operation and safety. With a simple 90° turn, you can divert flow from one downstream outlet to the other. It combines traditional manual operation with modern automation. It is also very easy to convert from its sturdy lever handle to ISO 5211 actuator flange assembly. It features low operating torque and a special wear reducing self-compensating valve seat design that meets our 100,000 cycle life test requirement. The valve can be purchased separately, with handle or with a **RuB** actuator already mounted.



QUALITY

- Electronic 100% seal test guaranteed
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO5211 / DIN3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way L- port design for flow diversion

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Stem slot shows ball position

SEALING

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

THREADS

- NPT taper ANSI B.1.20.1 female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Integrated sturdy ISO 5211 flange allows direct mounting of actuators. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- 450 PSI up to 1", 300 PSI over 1", non-shock cold working pressure
- -4°F to +302°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

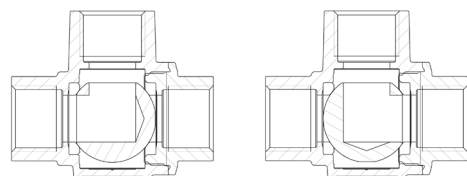
- Custom design
- Stainless steel stem
- Configuration with 4 seats, T-port (s.7341)

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

S.76 3-way "L" port operating positions



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact Power electric actuator
- Lockable handle as accessory or already mounted (s.7641L)
- Various actuator linkage kit



s.7641 NPT XCES7641 - 5466

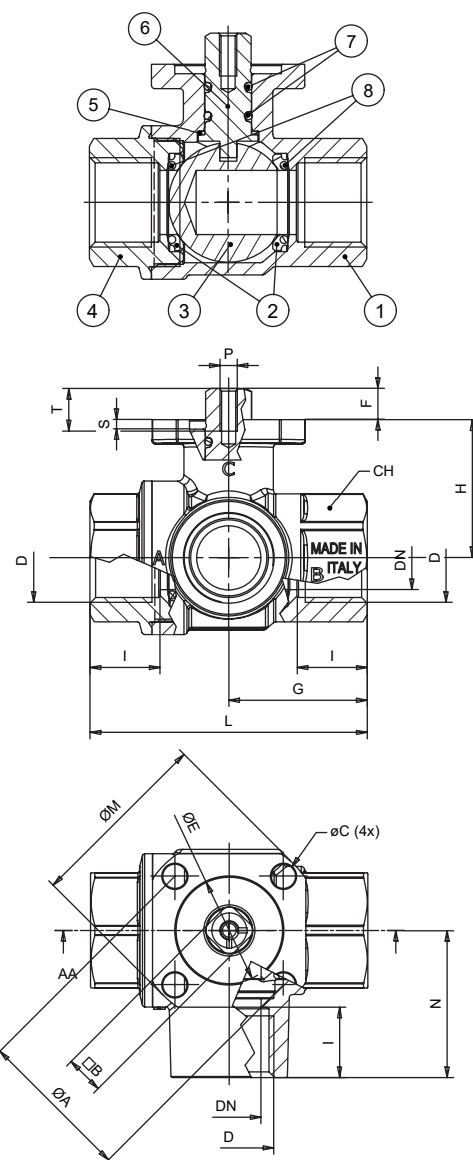
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ACTUATION

Part description		Q.ty	Material
1	Sand blasted unplated body	1	CW617N
2	Seat	2	PTFE graphite filled 15%, PTFE over 1"
3	Chrome plated ball	1	CW617N
4	Sand blasted unplated end cap	1	CW617N
5	Washer	1	PTFE carbon filled 25%
6	Nickel plated stem O-ring design	1	CW617N
7	O-Ring	2	FPM
8	O-Ring	2	FPM

Code	S76D41	S76E41	S76F41	S76G41	S76H41	S76I41
D (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (inch)	0.591	0.787	0.984	1.197	1.496	1.890
I (inch)	0.610	0.709	0.827	0.906	0.965	1.043
L (inch)	2.559	3.110	3.642	4.311	4.961	5.906
G (inch)	1.280	1.555	1.831	2.165	2.480	2.953
H (inch)	1.820	1.555	1.673	2.205	2.500	2.854
N (inch)	1.358	1.654	1.949	2.362	2.717	3.228
ØA (inch)	1.417	1.417	1.417	1.969	1.969	1.969
ØC (inch)	Ø 0.22	Ø 0.22	Ø 0.22	Ø 0.26	Ø 0.26	Ø 0.26
ØE (inch)	0.984	0.984	0.984	1.378	1.378	1.378
Square B (inch)	0.354	0.354	0.354	0.551	0.551	0.551
ØM (inch)	1.709	1.709	1.709	2.394	2.394	2.394
S (inch)	0.087	0.087	0.087	0.126	0.126	0.126
T (inch)	0.394	0.394	0.394	0.551	0.551	0.551
F (inch)	0.287	0.327	0.327	0.571	0.571	0.571
CH (inch)	1.063	1.260	1.614	1.969	2.165	2.756
Flange connection DIN ISO 5211 DIN 3337	F03	F03	F03	F05	F05	F05
P (ISO 262 Thread)	M4	M4	M4	M5	M5	M5
CV (GPM)	6.6	12.9	19.3	32.5	51.4	82.2



TORQUE FOR ACTUATOR SIZING IN-LB

Delta P -->	0÷230 PSI	
	to open	to close
Valve size		
1/2"	31	31
3/4"	36	36
1"	40	40
1 1/4"	104	104
1 1/2"	190	190
2"	248	248

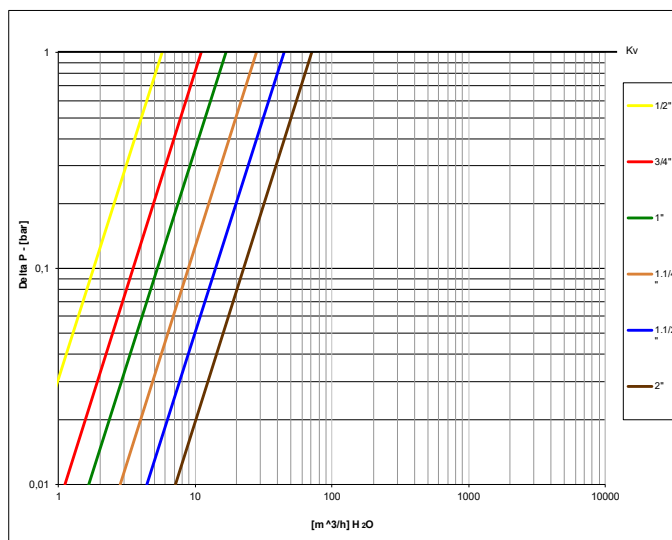
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE DROP CHART





s.7650 3-way 2 seats L-port (diverting)

Female/Female/Female
1/2" - 2"
EN 10226-1, ISO 5211



The **RuB** s.7650 is the right choice for fluid diversion and is designed with robust maintenance-free components ensuring ease of operation and safety. With a simple 90° turn, you can divert flow from one downstream outlet to the other. It combines traditional manual operation with modern automation. It is also very easy to convert from its sturdy lever handle to ISO 5211 actuator flange assembly. It features low operating torque and a special wear reducing self-compensating valve seat design that meets our 100,000 cycle life test requirement. The valve can be purchased separately, with handle or with a **RuB** actuator already mounted.

QUALITY

- Electronic 100% seal test guaranteed
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO5211 / DIN3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way L-port design for flow diversion

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double O-rings at the stem for maximum safety
- Stem slot shows ball position

SEALING

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

THREADS

- ISO 7/1, BS 21 BSPT taper female threads

FLOW

- 100% full port for maximum flow

OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact Power electric actuator
- Lockable handle as accessory or already mounted (s.7650L)
- Various actuator linkage kit

HANDLE

- Integrated sturdy ISO 5211 flange allows direct mounting of actuators. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- 30 Bar up to 1", 20 bar over 1", non-shock cold working pressure
- -20°C to +170°C (-4°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design
- Stainless steel stem
- Configurations with 4 seats, T-port (s.7350)

PED DIRECTIVE

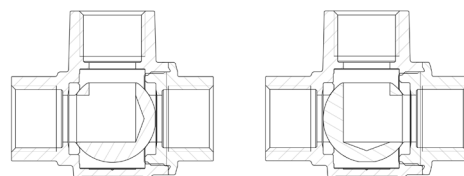
- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking.

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

S.76 3-way "L" port operating positions



s.7650 BSPT XCES7650 - 5466

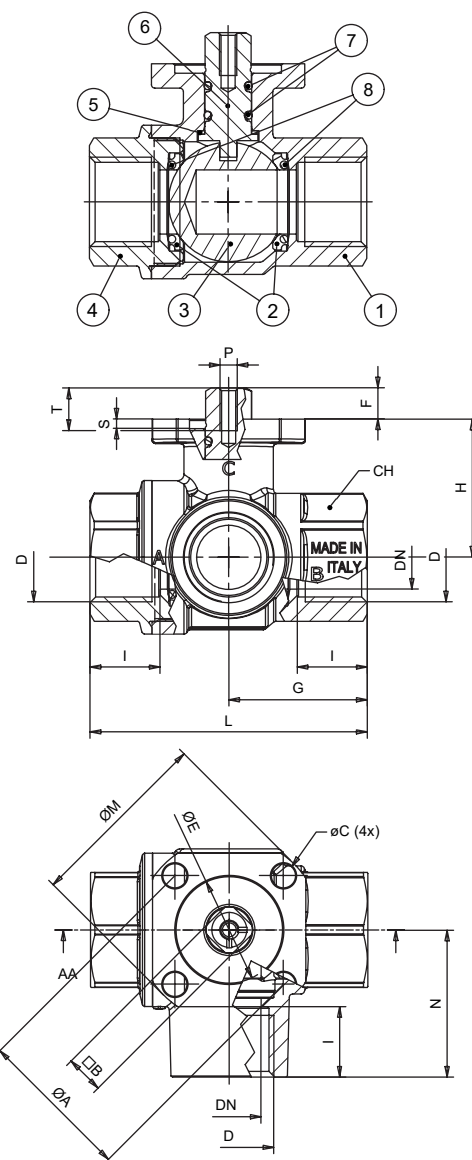
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ACTUATION

Part description		Q.ty	Material
1	Sand blasted nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE graphite filled 15%, PTFE over 1"
3	Chrome plated ball	1	CW617N
4	Sand blasted nickel plated end cap (external nickel plated, unplated inside)	1	CW617N
5	Washer	1	PTFE carbon filled 25%
6	Nickel plated stem O-ring design	1	CW617N
7	O-Ring	2	FPM
8	O-Ring	2	FPM

Code	S76D50	S76E50	S76F50	S76G50	S76H50	S76I50
D (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	15	20	25	30.4	38	48
I (mm)	16.5	19	22.5	25	26	29
L (mm)	65	79	92.5	109.5	126	150
G (mm)	32.5	39.5	46.5	55	63	75
H (mm)	32.5	39.5	42.5	56	63.2	72
N (mm)	34.5	42	49.5	60	69	82
ØA (mm)	36	36	36	50	50	50
ØC (mm)	Ø5.6	Ø5.6	Ø5.6	Ø6.6	Ø6.6	Ø6.6
ØE (mm)	25	25	25	35	35	35
Square B (mm)	9	9	9	11	11	14
ØM (mm)	43.4	43.4	43.4	60.8	60.8	60.8
S (mm)	2.2	2.2	2.2	3.2	3.2	3.2
T (mm)	10	10	10	14	14	14
F (mm)	7.3	8.3	8.3	10	10	14.5
CH (mm)	27	32	41	50	55	70
Flange connection DIN ISO 5211 DIN 3337	F03	F03	F03	F05	F05	F05
P (ISO 262 Thread)	M4	M4	M4	M5	M5	M5
Kv (m³/h)	5.7	11.1	16.7	28.1	44.5	71.1



TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0÷16 bar	
	to open	to close
Valve size		
1/2"	3.5	3.5
3/4"	4.0	4.0
1"	4.5	4.5
1 1/4"	11.7	11.7
1 1/2"	21.5	21.5
2"	28	28

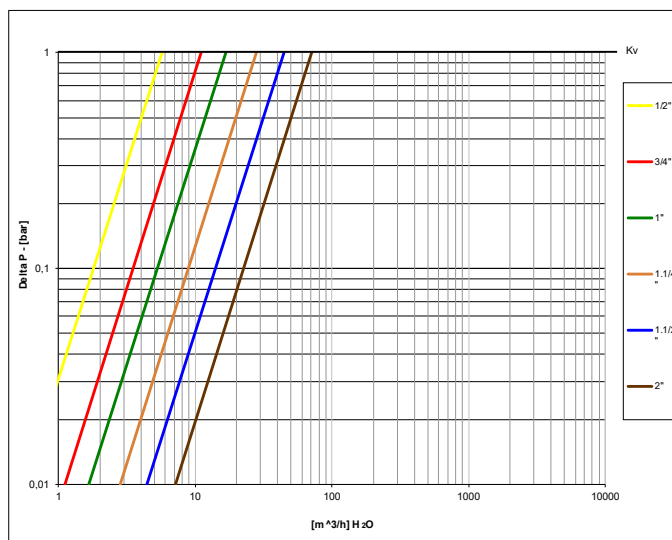
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE DROP CHART



INDUSTRY

From automotive and food processing to chemical, pharmaceutical, and power generation sectors, RuB valves are designed to meet the toughest operational demands. Our thorough 24-72 hour double-testing process ensures consistent performance, minimizing downtime and protecting your systems. Choose RuB for solutions that keep your operations running smoothly and efficiently, even in the most challenging environments.



INDUSTRY
Scan the QR code to discover our products



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k.60 spring return 1/4" - 2", heavy duty - DIN 16722 M3, EN 10226-1	Page 112
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s.17 motor-oil drain ball valve

Specifically responding to a need in the automotive application, s.17 is fitted under the oil sump to ease drainage operations, and furthermore granting a most reliable tightness thanks to its special automatic locking device, even under severe conditions of vibration stress.

Frozen drain plug and stripped threads are eliminated, no more contact with hot oil, no messy hands or cloths and reduced oil changing time.



QUALITY

- • 24h 100% seal test guaranteed
- • No metal-to-metal moving parts
- • No maintenance ever required
- • Handle clearly shows ball position
- • Silicone-free lubricant on all seals
- • Dual sealing system to prevent leakage
- • Handle stops on body to avoid stresses at stem

BODY

- • Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- • Compact design and solid structure
- • Fines brass according to EN 12165 and EN 12164 to prevent corrosion

STEM

- • Blowout-proof unplated brass stem
- • Maintenance-free, double FPM O-ring at the stem for maximum safety

SEALING

- • Glass filled pure PTFE self-lubricating seats with flexible-lip design

THREADS

- • M24x1.5 – 3/8" threads

HANDLE

- • Tamper proof and sealed to prevent dirt or dust from entering the rotation mechanism
- • 90° opening rotation
- • Automatic lock in closed position, to prevent accidental opening and thus warrant utmost safety

OPTIONS

- • M16x1.5 threads – hose connection
- • M12x1.5 threads – hose connection
- • M24x1.5 – 1/4" threads



WORKING PRESSURE & TEMPERATURE

- • 20 bar (300 PSI) non-shock cold working pressure
- • -20°C to +130°C (-4°F to +266°F)
- • **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

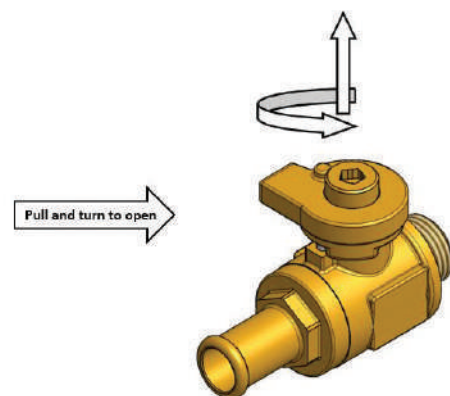
- • Stainless steel ball (1.4401 / AISI 316)
- • Custom design

PED DIRECTIVE

- • The product meets the requirements of PED Directive
- • 2014/68/UE and according to art.4 par.3, it does not require
- • CE marking

APPROVED BY OR IN COMPLIANCE WITH

- • GOST-R (Russia)
- • RoHS Compliant (EU)
- • **NOTE:** approvals apply to specific configurations/sizes only.



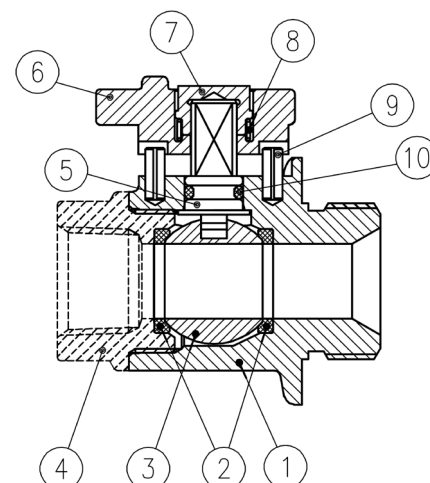
s.17 XCES17 - 5466

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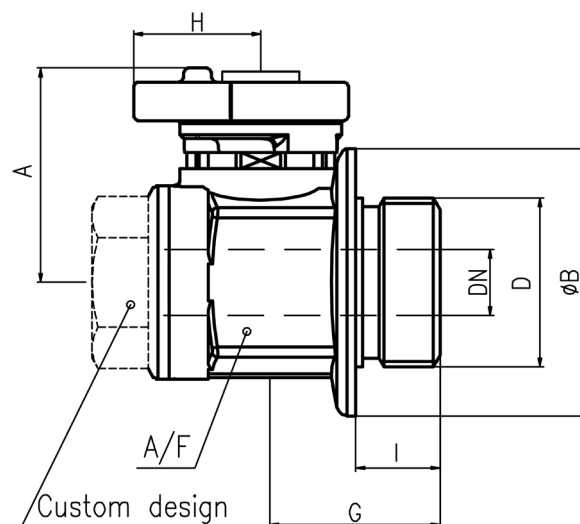


INDUSTRY

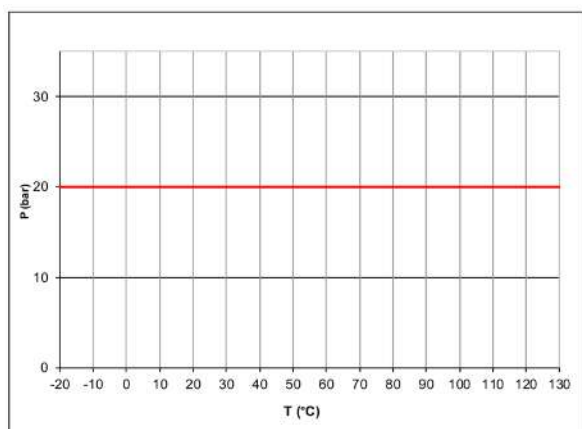
Part description		Q.ty	Material
1	Unplated sand blasted body	1	CW617N
2	Seat	2	PTFE glass filled 5-15%
3	Chrome plated ball	1	CW617N
4	Unplated end-cap - hose connection - custom	1	CW617N
5	Unplated stem O-ring design	1	CW617N
6	Unplated sand blasted handle	1	CW617N
7	Unplated handle cap	1	CW617N
8	Spring	1	X10CrNi 18-8
9	Spring pin Ø 3x8 ISO 8752	2	X10CrNi 18-8
10	O-Ring	1	FPM



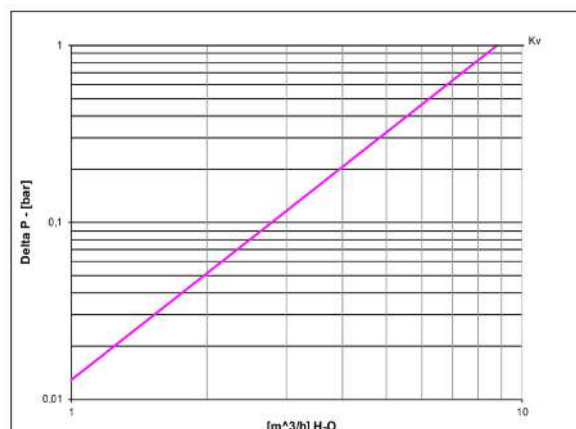
D (mm)	M12X1.5	M16X1.5	M24X1.5
DN (mm)	6	10	11.5
I (mm)	10	10	12
B (mm)	27	27	38
G (mm)	24.5	24.5	25.5
A (mm)	31.5	31.5	31.5
H (mm)	18	18	18
A/F (mm)	25	25	27
Kv (m³/h)	8.8		



PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.33

Female/Female
1/4" - 2"

EN 10226-1, heavy duty packing gland



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

BODY

- Hot forged sand blasted, nickel plated brass body and cap sealed with Loctite® or equivalent threads sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Pure PTFE adjustable packing gland and reinforced washer for lower torque and easy maintenance

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

- 100 % full port for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 65 bar (940 PSI) up to 1", 40 bar (600 PSI) over 1" non- shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball and/or stem (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

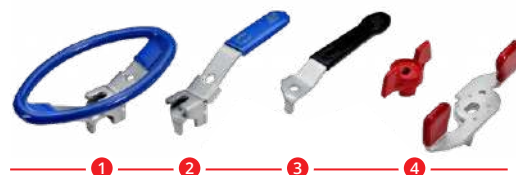
APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle **1**
- Patented locking device **2**
- Stainless steel handle (1.4016 / AISI 430) **3**
- T-handle **4**



s.33 XCES33 - 5466

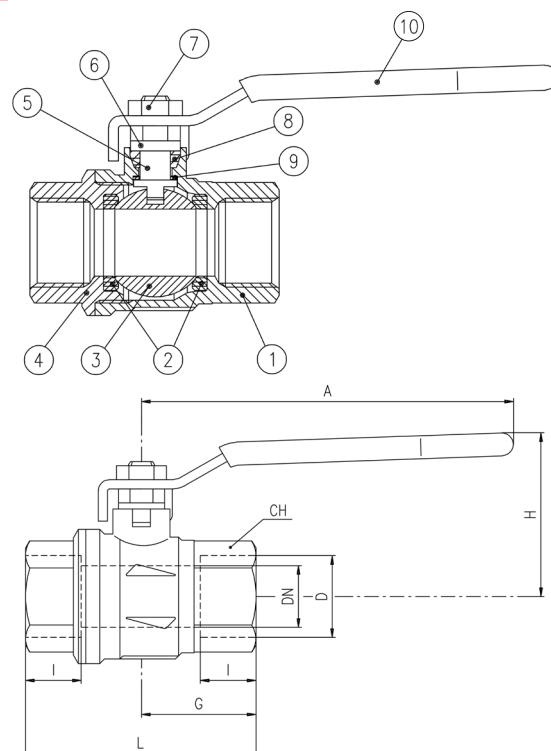
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INDUSTRY

	Part description	Q.ty	Material
1	Nickel plated body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap	1	CW617N
5	Nickel plated stem packing gland design	1	CW617N
6	Nickel plated gland nut	1	CW617N
7	Geomet® nut	1	CB4FF (EN10263-2)
8	Packing gland seal	1	PTFE
9	Washer	1	PTFE carbon filled 25%
10	Black PVC coated Geomet® steel handle	1	DD11 (EN10111)

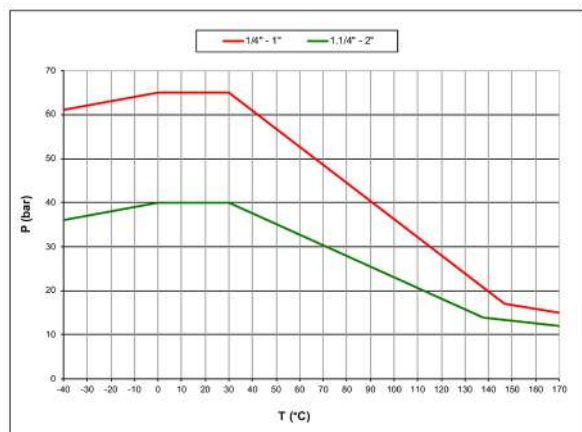
1 1/4"-2" hollow ball



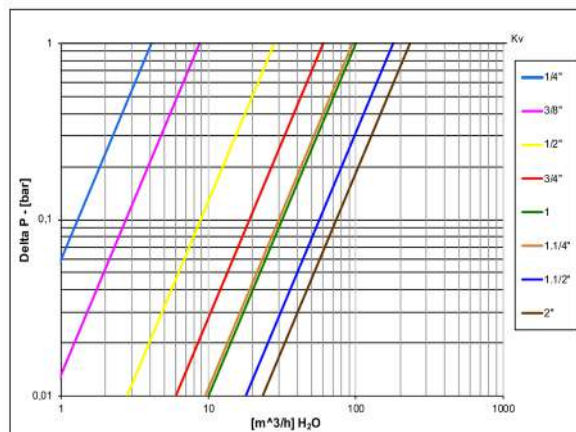
Code	S33B00	S33C00	S33D00	S33E00	S33F00	S33G00	S33H00	S33I00
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	14	14	16.5	19	22.5	25	26	29
L (mm)	51	51	61	74.5	90.5	104	117	135
G (mm)	25.5	25.5	30.5	37	45.5	52	59	67.5
A (mm)	82	82	100	120	120	158	158	158
H (mm)	39.5	39.5	43	52.5	56.5	78	85	91.5
CH (mm)	22	22	27	32	41	50	55	70
PN (Bar)	65	65	65	65	65	40	40	40
Kv (m3/h)	4.1	8.7	28	60	100	95	179	233

Ball valves are marked CE on handle from 1 1/4" to 2" as follow:
CE XXCODEXX Cat I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





k.60 spring return

Female/Female
1/4" - 2", heavy duty - DIN 16722 M3 EN 10226-1

Access to fluid systems in public places could potentially convert into costs and safety problems. In order to avoid unattended valves being left open with negative economic or environmental consequences, **RuB** developed the automatic self-closing valve. The valve can be opened normally by rotating the handle 90° and when the user releases the handle, the valve shuts off automatically. Best solution for service stations, trucks, public areas, gardens. The same feature is useful in industrial applications, where a valve must not be left open unattended.

HIGH TEMPERATURE RESISTANCE

Now approved for HTB use (Hochtemperaturbeständigkeit) - Class B 0,1 (0,1 bar @650°C for at least 30 minutes).



H2 READY: product approved in EU acc.to EN331 (sizes 1/4" to 2") for the 1st, 2nd and 3rd gas families, therefore compatible with hydrogen use up to 50% in the gas mixture, as established in the 1st gas family of the EN437 (ref. G110)



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stresses at stem
- Chrome plated brass ball for longer life

BODY

- Hot forged sand blasted, nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Valve length according to DIN 16722 M3 for sizes from 3/8" to 2" (DN10 to DN50). Size 1/4" (DN 8) complies to DIN 3202 M3.
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Robust spring ensures auto shutt-off with max pressure in valve
- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 65 bar (940 PSI) up to 1", 40 bar (600 PSI) over 1" non-shock cold working pressure
- -20°C to +170°C (-4°F to +350°F)
- For use with dangerous fluids temperature rating is
- -20°C to +60°C (-4°F to +140°F) and pressure rating is
- 5 bar (72 PSI) / **HTB** Class B 0,1
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Custom design
- Stainless steel handle (1.4016 / AISI 430)

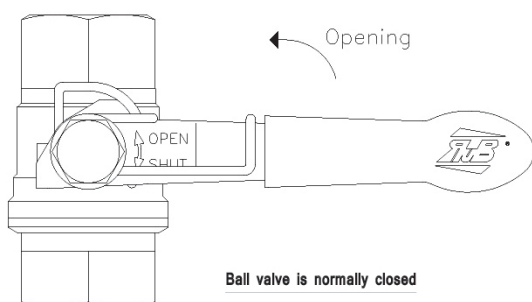
PED DIRECTIVE

- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by ICIM (0425)

APPROVED BY OR IN COMPLIANCE WITH

- DVGW (Germany) – MOP 5 B 0,1
- GOST-R (Russia)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.



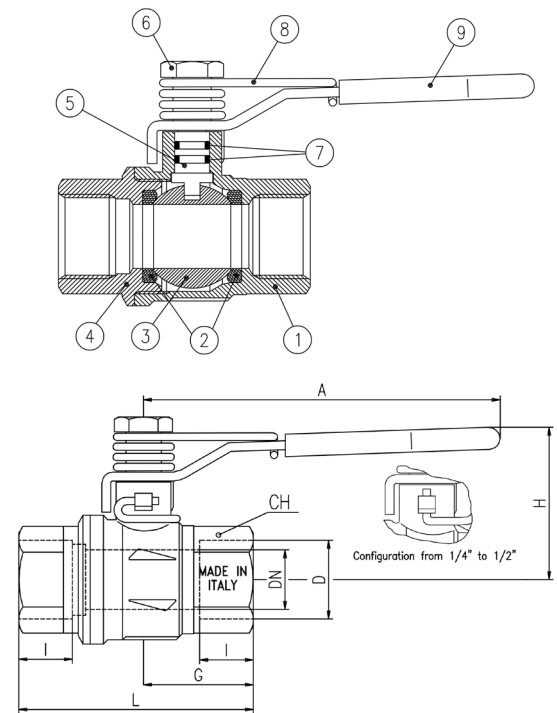
k.60 spring return XCEK60MR - 5466

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	Part description	Q.ty	Material
1	Nickel plated body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Unplated spring nut	1	CW617N
7	O-Ring	2	FPM
8	Spring return	1	1.4310 (AISI 302)
9	Yellow PVC coated Geomet® steel handle	1	DC01

1 1/4"-2" hollow ball

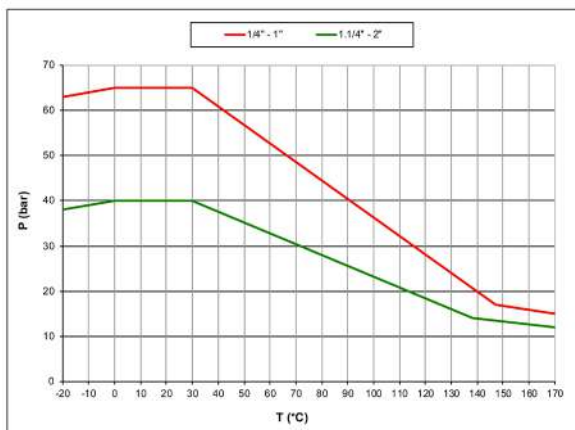


Compliant to CE 2014/68/UE product Equipment category III Module B+D

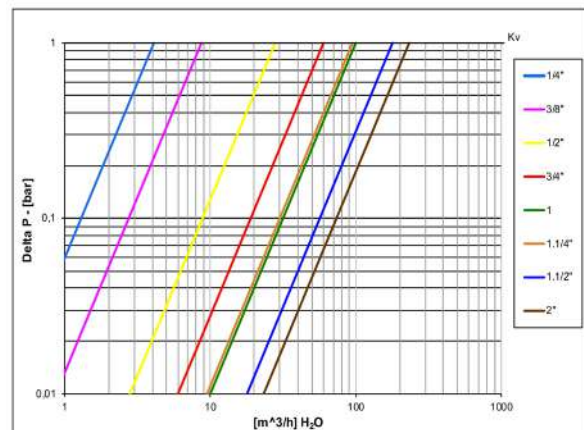
Code	S60B05M	S60C05M	S60D05M	S60E05M	S60F05M	S60G05M	S60H05M	S60I05M
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	14	14	16.5	19	22.5	25	26	29
L (mm)	50	60	75	80	90	110	120	140
G (mm)	25.5	25.5	30.5	37	45.5	52	59	67.5
A (mm)	100	100	100	120	120	158	158	158
H (mm)	40	40	43	51	55.5	75	81	88.5
CH (mm)	22	22	27	32	41	50	55	70
PN (bar)	65	65	65	65	65	40	40	40
Kv (m3/h)	4.1	8.7	28	60	100	95	179	233

Ball valves are marked CE on handle from 1 1/4" to 2" as follow: CE 0425 Cat IIIB+D PS: 5 GAS TS1: -20°C TS2: +60°C

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.7200L

3-way, lever, 4 seats (diverting)

Female/Female/Female
1/2" - 1"



The RuB S.7200L is the right choice for fluid diversion and is designed with robust maintenance-free components ensuring ease of operation and safety. With a simple 90° turn of the handle, you can divert flow from one downstream outlet to the other. It combines traditional manual operation with modern automation. It is also very easy to convert from its sturdy lever handle to ISO 5211 actuator flange assembly. The valve can be purchased separately, with handle or with a RuB actuator already mounted.



QUALITY

- Electronic 100% seal test guaranteed for maximum safety
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO5211 / DIN3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way L-port design for flow diversion

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design
- Four seats design for mixing of various fluids in the system

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 Bar up to 1", 20 bar over 1", non-shock cold working pressure
- -20°C to +170°C (-4°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design
- Stainless steel stem (1.4401/ AISI 316)
- Configurations with 4 seats, L-port (s.7200L) or T-port (s.7300L)

PED DIRECTIVE

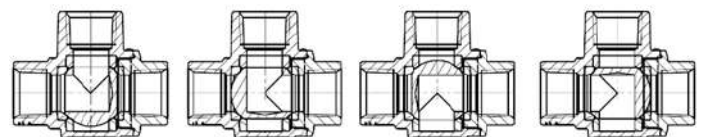
- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking.

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia – Kazakhstan – Belarus)

NOTE: approvals apply to specific configurations/sizes only.

S.72 3-WAY "L" PORT OPERATING POSITIONS



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- S.7200 without handle, actuator ready
- Various actuator linkage kit

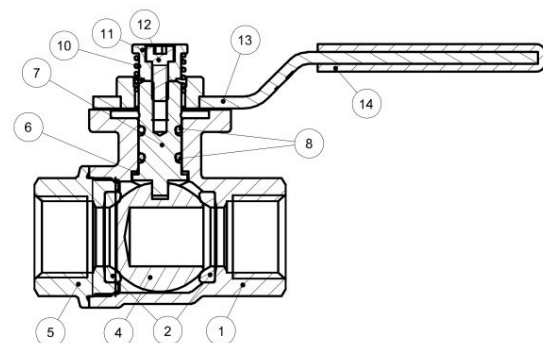


s.7200L XCES7200L - 5466

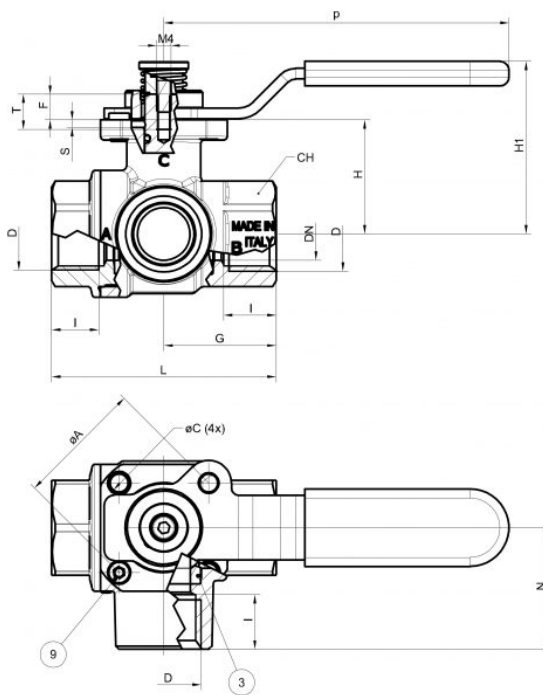
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Part description		Q.ty	Material
1	Nickel plated body (External nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Seat	2	PTFE
4	Chrome plated ball	1	CW617N
5	Nickel plated end-cap (External nickel plated, unplated inside)	1	CW617N
6	Washer	1	PTFE carbon filled 25%
7	Nickel plated stem O-ring design	1	CW617N
8	O-Ring	2	FPM
9	Screw handle stop	1	CW617N
10	Spring	1	1.4310 / AISI 302
11	Unplated spring bushing	1	CW617N
12	Stainless steel screw	1	1.4301 / AISI 304
13	Geomet® plated steel handle	1	DD11 (EN10111)
14	Black dipped coating	1	PVC



Code	S72D00L	S72E00L	S72F00L
Size (inch)	1/2	3/4	1
DN (mm)	15	20	25
I (mm)	16.5	19	22.5
L (mm)	65	79	92.5
G (mm)	32.5	39.5	46.5
H (mm)	32.5	39.5	42.5
N (mm)	34.5	42	49.5
ØA (mm)	36	36	36
ØC (mm)	Ø5.2 (M6)	Ø5.2 (M6)	Ø5.2 (M6)
p (mm)	100	100	100
H1 (mm)	49	56	59
S (mm)	2.2	2.2	2.2
T (mm)	10	10	10
F (mm)	7.3	8.3	8.3
CH (mm)	27	32	41
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03



TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0÷16 bar	
	to open	to close
1/2"	10.5	10.5
3/4"	13	13
1"	29.5	29.5

TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5



s.7241L NPT

3-way, lever, 4 seats (diverting)

Female/Female/Female
1/2" - 1"

The RuB S.7241L is the right choice for fluid diversion and is designed with robust maintenance-free components ensuring ease of operation and safety. With a simple 90° turn of the handle, you can divert flow from one downstream outlet to the other. It combines traditional manual operation with modern automation.

It is also very easy to convert from its sturdy lever handle to ISO 5211 actuator flange assembly.

The valve can be purchased separately, with handle or with a RuB actuator already mounted.



QUALITY

- Electronic 100% seal test guaranteed for maximum safety
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO5211 / DIN3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way L-port design for flow diversion

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design
- Four seats design for mixing of various fluids in the system

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 300 PSI non-shock cold working pressure
- -4°F to +302°F (-20°C to +150°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

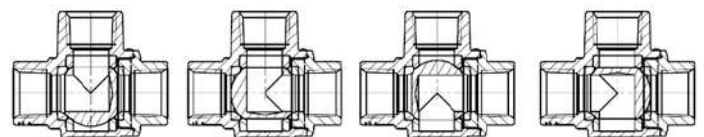
- Custom design
- Stainless steel stem (1.4401/ AISI 316)
- Configurations with 4 seats & T-port (s.7341L) or 2 seats & L-port (s.7641L)

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

S.72 3-WAY "L" PORT OPERATING POSITIONS



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- S.7241 without handle, actuator ready
- Various actuator linkage kit

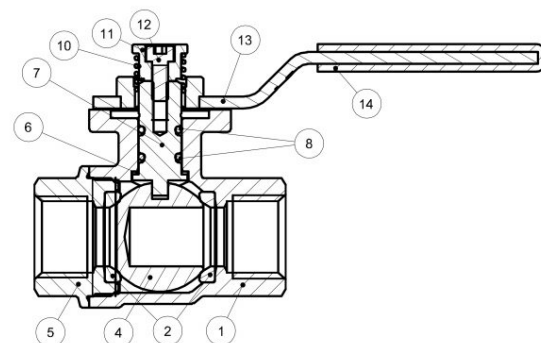


s.7241L NPT XCES7241L - 5466

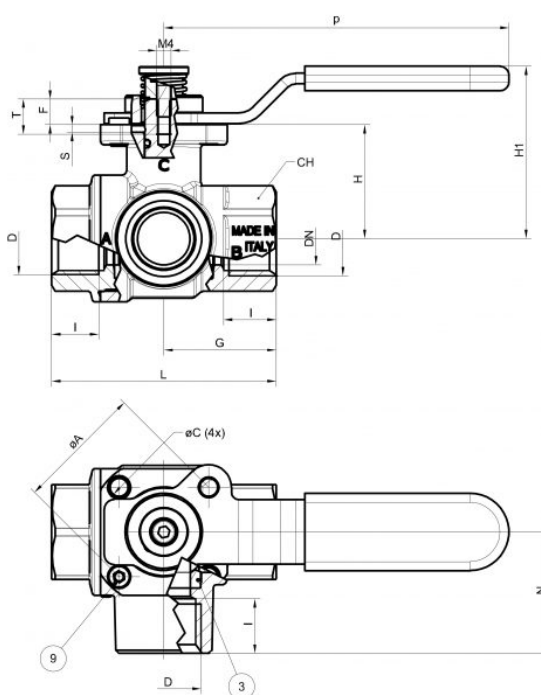
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Part description		Q.ty	Material
1	Sand blasted unplated body	1	CW617N
2	Seat	2	PTFE
3	Seat	2	PTFE
4	Chrome plated ball	1	CW617N
5	Sand blasted unplated end-cap	1	CW617N
6	Washer	1	PTFE carbon filled 25%
7	Nickel plated stem O-ring design	1	CW617N
8	O-Ring	2	FPM
9	Screw handle stop	1	CW617N
10	Black dipped coating	1	1.4310 / AISI302
11	Stainless steel screw	1	CW617N
12	Unplated stop	1	1.4301 / AISI304
13	Zinc plated steel nut	1	DD11 (EN10111)
14	Stainless steel Exagonal screw	1	PVC



Code	S72D41L	S72E41L	S72F41L
Size (inch)	1/2	3/4	1
DN (inch)	0.591	0.787	0.984
I (inch)	0.610	0.709	0.827
L (inch)	2.559	3.110	3.642
G (inch)	1.280	1.555	1.831
H (inch)	1.280	1.555	1.673
N (inch)	1.358	1.654	1.949
ØA (inch)	1.417	1.417	1.417
ØC (inch)	Ø 0.205 (M6)	Ø 0.205 (M6)	Ø 0.205 (M6)
p (inch)	3.937	3.937	3.937
H1 (inch)	1.929	2.210	2.328
S (inch)	0.087	0.087	0.087
T (inch)	0.394	0.394	0.394
F (inch)	0.287	0.327	0.327
CH (inch)	1.063	1.260	1.614
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03



TORQUE FOR ACTUATOR SIZING IN-LB

Delta P --> Valve size	0÷230 PSI	
	to open	to close
1/2"	93	93
3/4"	115	115
1"	261	261

TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5



s.7300L

3-way, lever, 4 seats, T-port

Female/Female/Female
1/2" - 2"
EN 10226-1

The s.7300L series has a ball seal at every port, and offers a wide variety of possible flow configurations. Positive shut-off can be achieved at any of the exiting ports. By specifying the appropriate ball port configuration, the T-port design allows flow direction to be adjusted for virtually any situation and is ideal for mixing applications. Our s.73 multi-port valves can reduce the number of valves required in piping systems and can significantly lower overall costs by replacing two or three conventional 2-way valves, eliminating excess fittings, saving space and simplifying automation.



QUALITY

- Electronic 100% seal test guaranteed
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 /DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way T-port design for flow mixing

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design
- Four seats design for mixing of various fluids in the system

THREADS

- EN 10226-1, ISO 228 parallel female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 20 bar (300 PSI) non-shock cold working pressure
- -20°C to +150°C (-4°F to +302°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design
- Stainless steel stem
- Configurations with 4 seats & L-port (s.7200L) or 2 seats & L-port (s.7600L)

PED DIRECTIVE

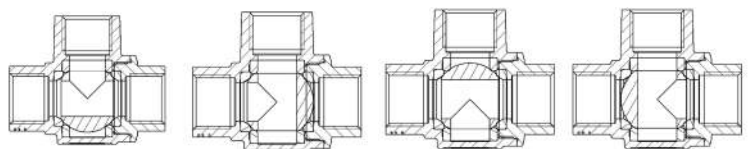
- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

S.73 3-WAY "T" PORT OPERATING POSITIONS



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- S.7300 without handle actuator ready
- Various actuator linkage kit

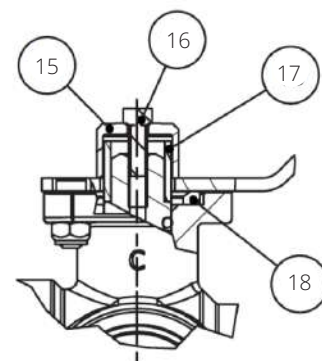
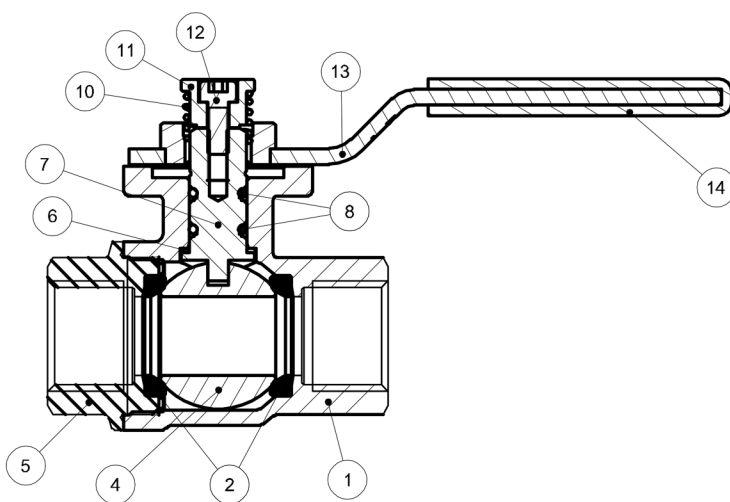


s.7300L XCES7300L - 5466

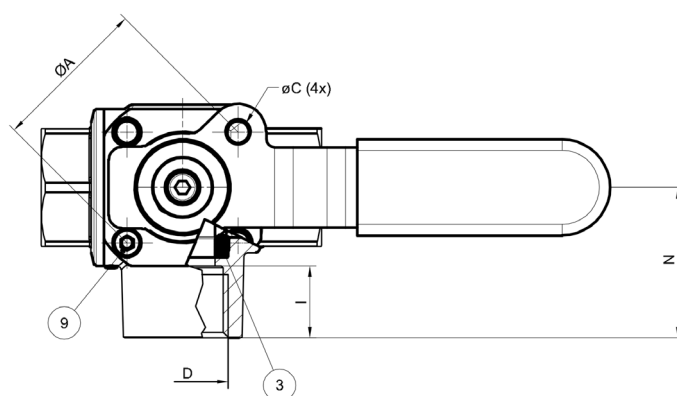
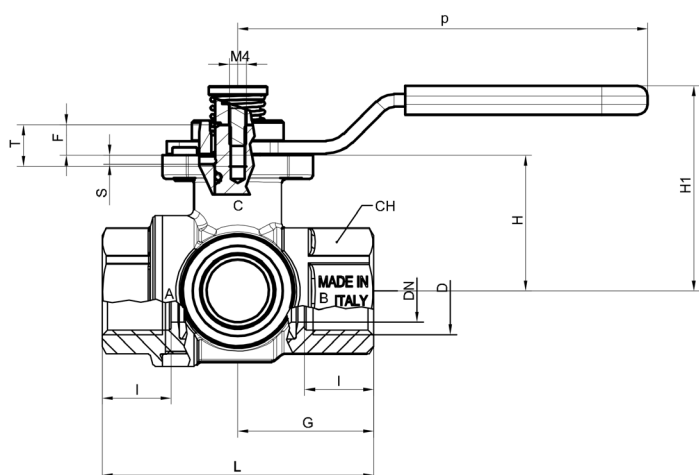
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	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Seat	2	PTFE
4	Chrome plated ball	1	CW617N
5	Nickel plated end cap (external nickel plated, unplated inside)	1	CW617N
6	Washer	1	PTFE carbon filled 25%
7	Nickel plated stem O-ring design	1	CW617N
8	O-Ring	2	FPM
9	Screw handle stop	1	CW617N
10	Spring	1	1.4310 / AISI 302
11	Unplated spring bushing	1	CW617N
12	Stainless steel screw	1	1.4301 / AISI 304
13	Geomet® plated steel handle	1	DD11 (EN10111)
14	Black dipped coating	1	PVC
15	Unplated cap	1	CW614N
16	Stainless steel Hexagonal screw	1	1.4301 / AISI304
17	Square adapter 11-14 (only for 1 1/4" size)	1	Steel
18	Washer	1	PTFE



Code	S73D00L	S73E00L	S73F00L	S73G00L	S73H00L	S73I00L
Size (inch)	1/2	3/4	1	1 ¼	1 ½	2
DN (mm)	15	20	25	30.4	38	48
I (mm)	16.5	19	22.5	25	26	29
L (mm)	65	79	92.5	109.5	126	150
G (mm)	32.5	39.5	46.5	55	63	75
H (mm)	32.5	39.5	42.5	56	62.5	72
N (mm)	34.5	42	49.5	60	69	82
ØA (mm)	36	36	36	50	50	50
ØC (mm)	Ø5.6	Ø5.6	Ø5.6	Ø6.6	Ø6.6	Ø6.6
p (mm)	103	103	103	145	145	145
H1 (mm)	49	56	59	79.3	85.5	93.4
S (mm)	2.2	2.2	2.2	3.2	3.2	3.2
T (mm)	10	10	10	14	14	14
F (mm)	7.3	8.3	8.3	14.5	14.5	14.5
CH (mm)	27	32	41	50	55	70
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03	F05	F05	F05
Kv (m³/h) straight pattern	9.7	28.2	43.3	57.0	94.5	161.0
Kv (m³/h) 90° pattern	5.3	11.6	16.8	26.7	43.3	69.2



TORQUE FOR ACTUATOR SIZING N.M

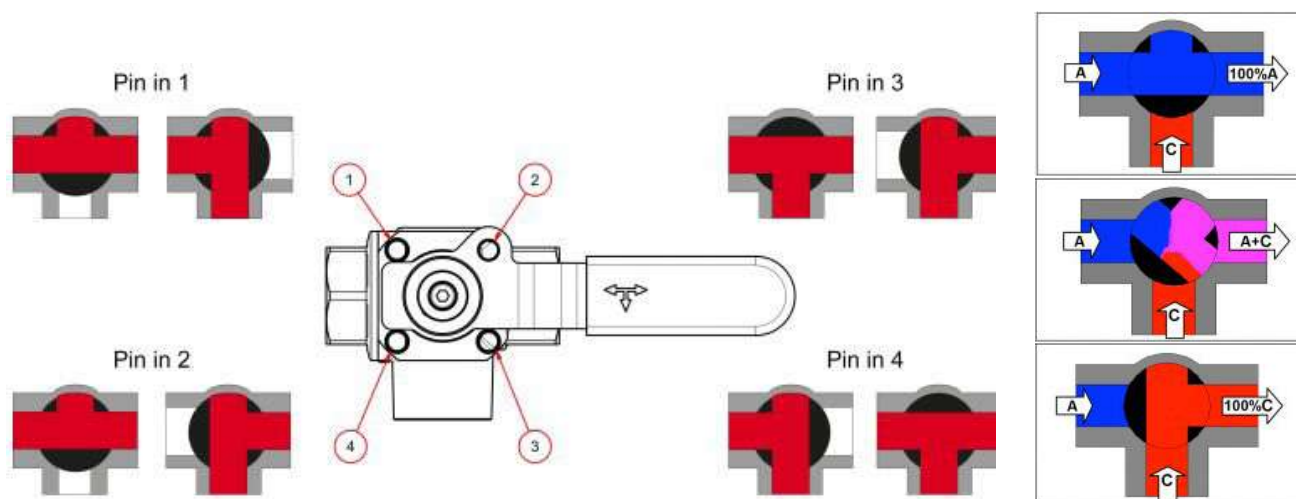
Delta P -->	0÷16 bar	
Valve size	to open	to close
1/2"	10,5	10,5
3/4"	13	13
1"	29,5	29,5
1 1/4"	14	14
1 1/2"	23	23
2"	38	38

With the configuration of T-port a stop pin can be fixed in any position of the 4 provided in the flange (1, 2, 3 or 4) and the lever can be rotated freely through 90°, the flow assumes the directions indicated in the diagram; in case of need the lever can be pulled upwards and you can reach any of the four possible positions.

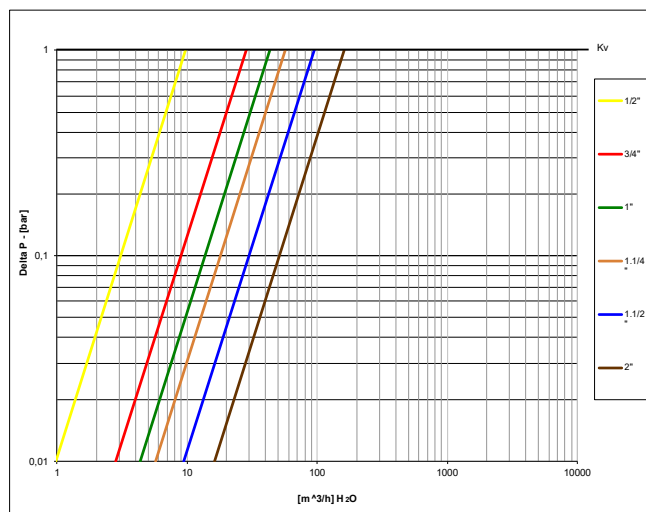
An alternative is to mount 2 pins in 2 near holes (e.g. 1 and 2). In this case, the valve does not assume a predetermined position but can be actuated just by pulling the lever towards the top.

The valve allows also to block the lever thanks to the addition of a lock on the lever's protrusion (in the drawing you can see position 2).

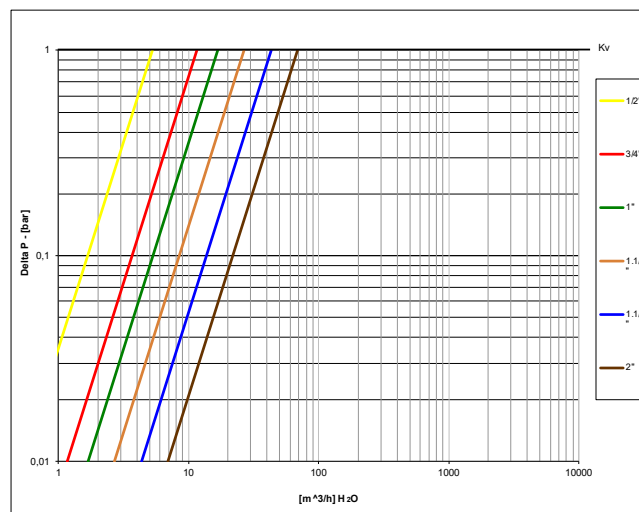
The mixing configuration is achieved by placing the pin in position 2. The flows to be mixed enter through A and C and exit through A+C.



PRESSURE DROP CHART (STRAIGHT FLOW PATTERN)



PRESSURE DROP CHART (90° FLOW PATTERN)





s.7350L

3-way, lever, 4 seats, T-port

Female/Female/Female
1/2" - 2"
ISO 7/1, BS21



The s.7350L series has a ball seal at every port, and offers a wide variety of possible flow configurations. Positive shut-off can be achieved at any of the exiting ports. By specifying the appropriate ball port configuration, the T-port design allows flow direction to be adjusted for virtually any situation and is ideal for mixing applications. Our s.73 multi-port valves can reduce the number of valves required in piping systems and can significantly lower overall costs by replacing two or three conventional 2-way valves, eliminating excess fittings, saving space and simplifying automation.

QUALITY

- Electronic 100% seal test guaranteed
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 /DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way T-port design for flow mixing

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design
- Four seats design for mixing of various fluids in the system

THREADS

- ISO71, BS21 BSPT taper female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 20 bar (300 PSI) non-shock cold working pressure
- -20°C to +150°C (-4°F to +302°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design
- Stainless steel stem
- Configuration with 2 seats & L-port (s.7650L)

PED DIRECTIVE

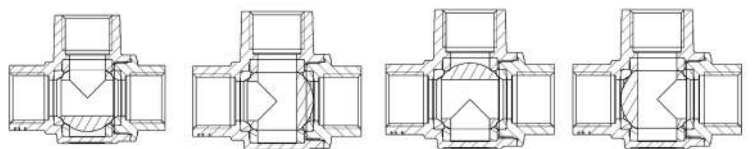
- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

S.73 3-WAY "T" PORT OPERATING POSITIONS



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- S.7350 without handle actuator ready
- Various actuator linkage kit

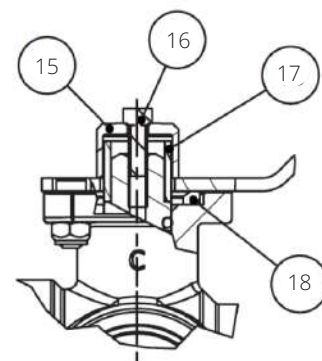
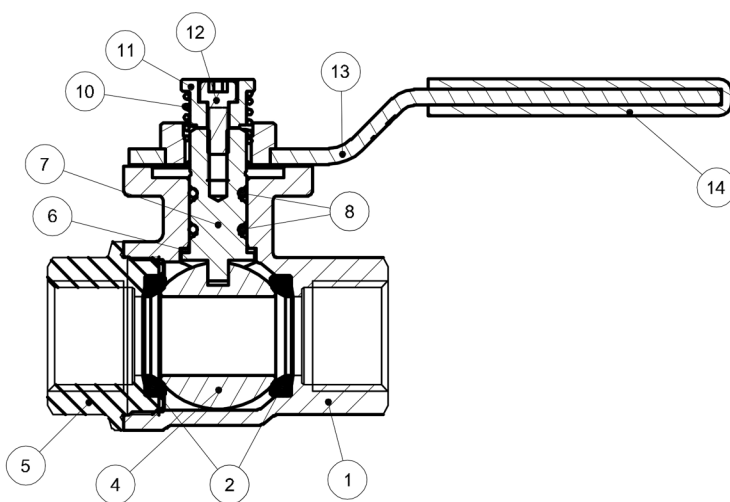


s.7350L XCES7350L - 5466

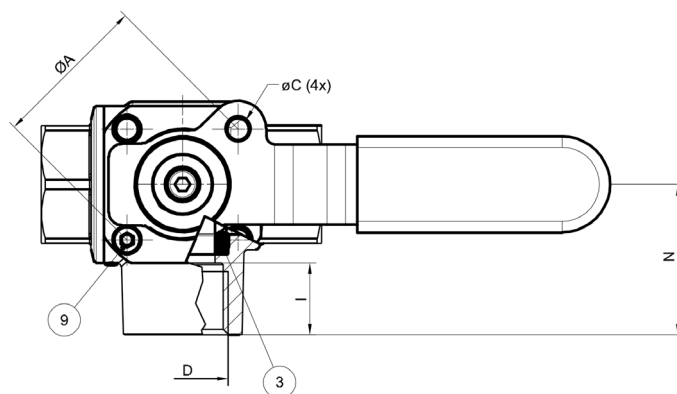
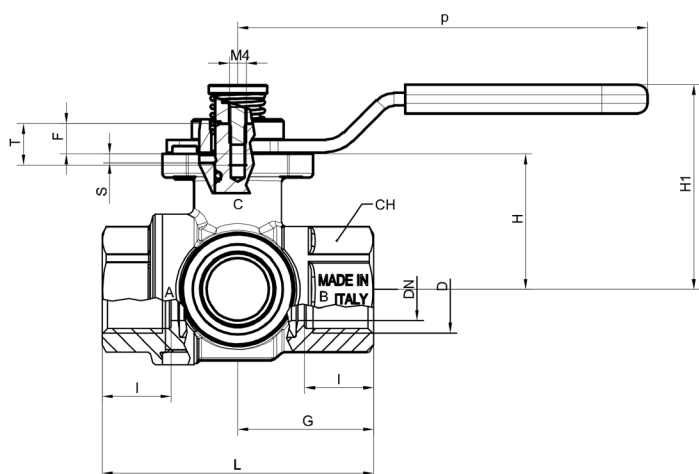
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	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Seat	2	PTFE
4	Chrome plated ball	1	CW617N
5	Nickel plated end cap (external nickel plated, unplated inside)	1	CW617N
6	Washer	1	PTFE carbon filled 25%
7	Nickel plated stem O-ring design	1	CW617N
8	O-Ring	2	FPM
9	Screw handle stop	1	CW617N
10	Spring	1	1.4310 / AISI 302
11	Unplated spring bushing	1	CW617N
12	Stainless steel screw	1	1.4301 / AISI 304
13	Geomet® plated steel handle	1	DD11 (EN10111)
14	Black dipped coating	1	PVC
15	Unplated cap	1	CW614N
16	Stainless steel Hexagonal screw	1	1.4301 / AISI304
17	Square adapter 11-14 (only for 1 ¼" size)	1	Steel
18	Washer	1	PTFE



Code	S73D50L	S73E50L	S73F50L	S73G50L	S73H50L	S73I50L
Size (inch)	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	15	20	25	30.4	38	48
I (mm)	16.5	19	22.5	25	26	29
L (mm)	65	79	92.5	109.5	126	150
G (mm)	32.5	39.5	46.5	55	63	75
H (mm)	32.5	39.5	42.5	56	62.5	72
N (mm)	34.5	42	49.5	60	69	82
ØA (mm)	36	36	36	50	50	50
ØC (mm)	Ø5.6	Ø5.6	Ø5.6	Ø6.6	Ø6.6	Ø6.6
p (mm)	103	103	103	145	145	145
H1 (mm)	49	56	59	79.3	85.5	93.4
S (mm)	2.2	2.2	2.2	3.2	3.2	3.2
T (mm)	10	10	10	14	14	14
F (mm)	7.3	8.3	8.3	14.5	14.5	14.5
CH (mm)	27	32	41	50	55	70
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03	F05	F05	F05
Kv (m³/h) straight pattern	9.7	28.2	43.3	57.0	94.5	161.0
Kv (m³/h) 90° pattern	5.3	11.6	16.8	26.7	43.3	69.2



TORQUE FOR ACTUATOR SIZING N.M

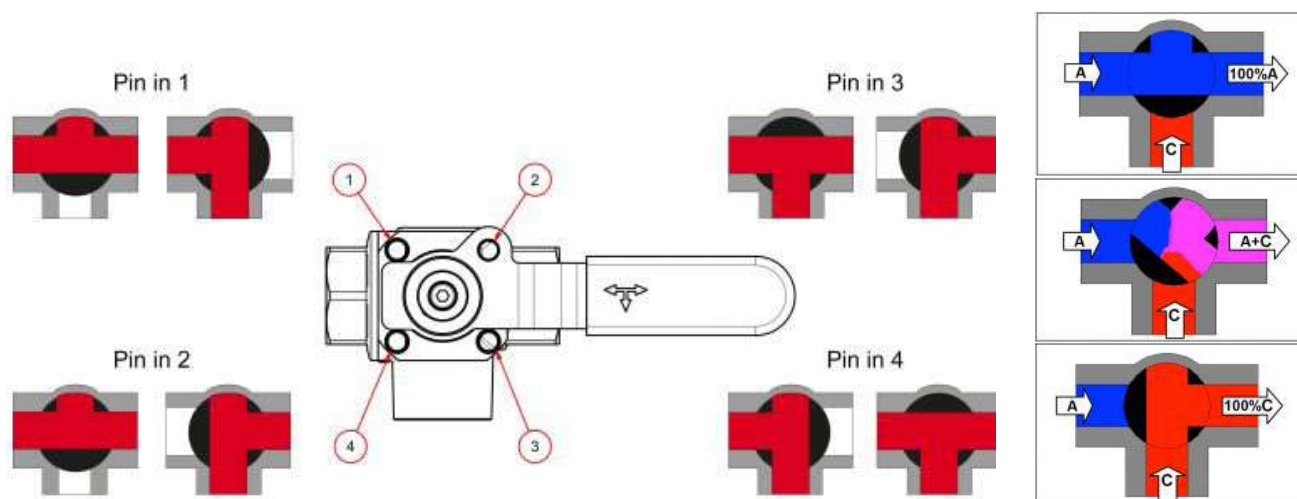
Delta P -->	0÷16 bar	
Valve size	to open	to close
1/2"	10,5	10,5
3/4"	13	13
1"	22	22
1 1/4"	14	14
1 1/2"	23	23
2"	38	38

With the configuration of T-port a stop pin can be fixed in any position of the 4 provided in the flange (1, 2, 3 or 4) and the lever can be rotated freely through 90°, the flow assumes the directions indicated in the diagram; in case of need the lever can be pulled upwards and you can reach any of the four possible positions.

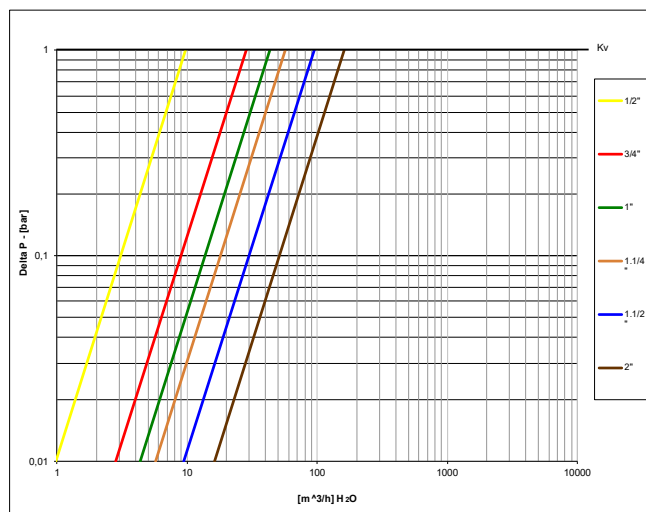
An alternative is to mount 2 pins in 2 near holes (e.g. 1 and 2). In this case, the valve does not assume a predetermined position but can be actuated just by pulling the lever towards the top.

The valve allows also to block the lever thanks to the addition of a lock on the lever's protrusion (in the drawing you can see position 2).

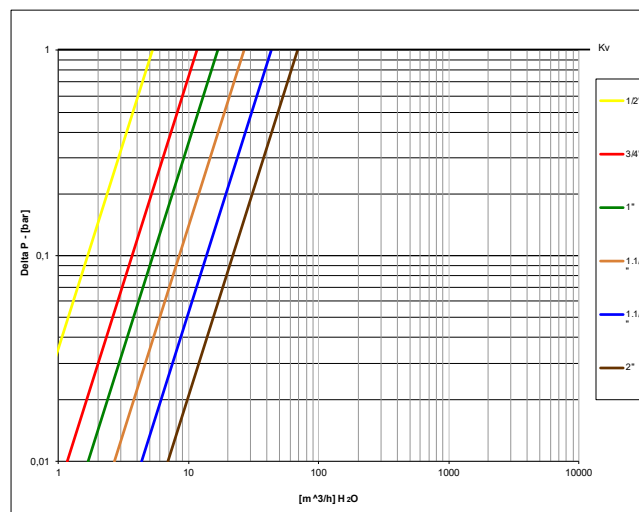
The mixing configuration is achieved by placing the pin in position 2. The flows to be mixed enter through A and C and exit through A+C.



PRESSURE DROP CHART (STRAIGHT FLOW PATTERN)



PRESSURE DROP CHART (90° FLOW PATTERN)





s.7341L

3-way, lever, 4 seats, T-port

Female/Female/Female
1/2" - 2"

The s.7341L series has a ball seal at every port, and offers a wide variety of possible flow configurations. Positive shut-off can be achieved at any of the exiting ports. By specifying the appropriate ball port configuration, the T-port design allows flow direction to be adjusted for virtually any situation and is ideal for mixing applications. Our s.73 multi-port valves can reduce the number of valves required in piping systems and can significantly lower overall costs by replacing two or three conventional 2-way valves, eliminating excess fittings, saving space and simplifying automation.



QUALITY

- Electronic 100% seal test guaranteed
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 /DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way T-port design for flow mixing

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design
- Four seats design for mixing of various fluids in the system

THREADS

- NPT taper ANSI B.1.20.1 female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 300 PSI (20 bar) non-shock cold working pressure
- -4°F to +302°F (-20°C to +150°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

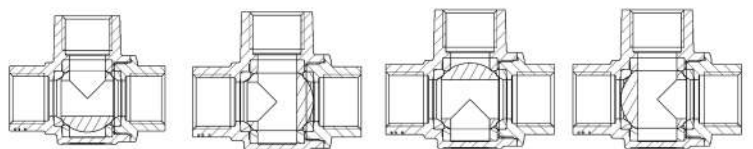
- Custom design
- Stainless steel stem
- Configurations with 4 seats & L-port (s.7241L) or 2 seats & L-port (s.7641L)

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

S.73 3-WAY "T" PORT OPERATING POSITIONS



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- S.7341 without handle actuator ready
- Various actuator linkage kit

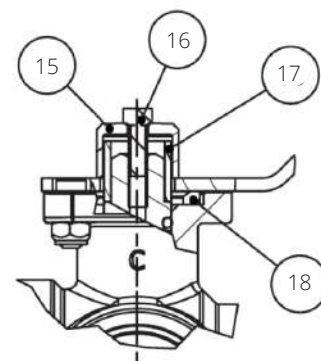
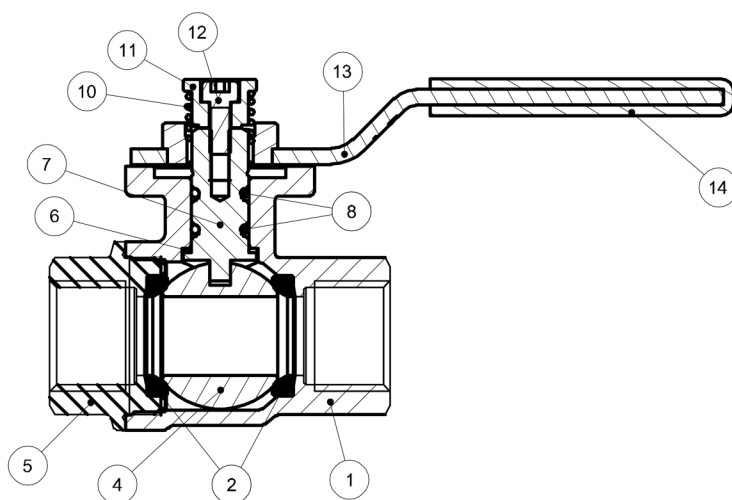


s.7341L XCES7341L - 5466

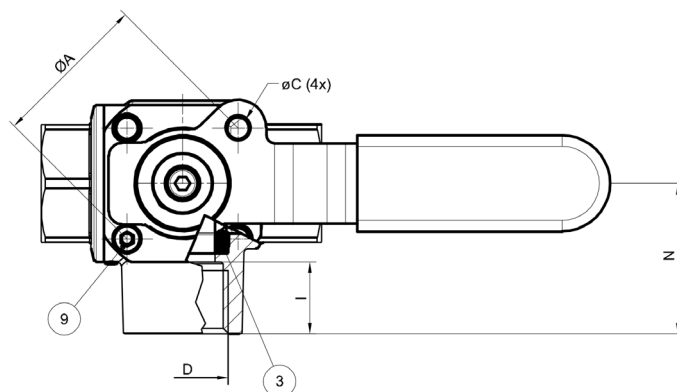
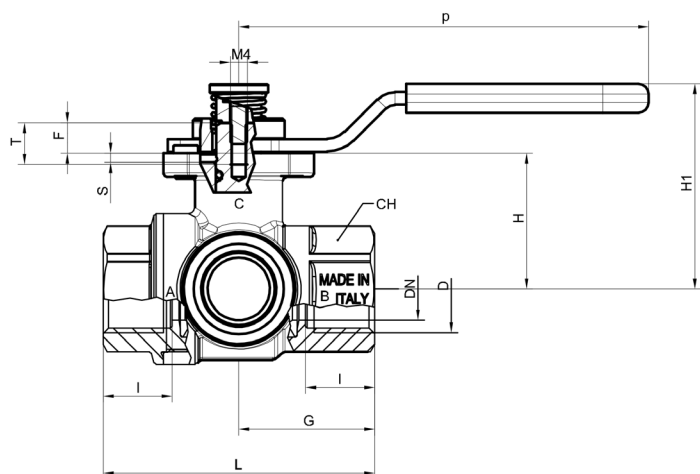
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	Part description	Q.ty	Material
1	Sand blasted unplated body	1	CW617N
2	Seat	2	PTFE
3	Seat	2	PTFE
4	Chrome plated ball	1	CW617N
5	Sand blasted unplated end-cap	1	CW617N
6	Washer	1	PTFE carbon filled 25%
7	Nickel plated stem O-ring design	1	CW617N
8	O-Ring	2	FPM
9	Screw handle stop	1	CW617N
10	Spring	1	1.4310 / AISI 302
11	Unplated spring bushing	1	CW617N
12	Stainless steel screw	1	1.4301 / AISI 304
13	Geomet® plated steel handle	1	DD11 (EN10111)
14	Black dipped coating	1	PVC
15	Unplated cap	1	CW614N
16	Stainless steel Hexagonal screw	1	1.4301 / AISI304
17	Square adapter 11-14 (only for 1 1/4" size)	1	Steel
18	Washer	1	PTFE



Code	S73D41L	S73E41L	S73F41L	S73G41L	S73H41L	S73I41L
Size (inch)	1/2	3/4	1	1 1/4	1 1/2	2
DN (inch)	0.591	0.787	0.984	1.197	1.496	1.890
I (inch)	0.610	0.709	0.827	0.906	0.965	1.043
L (inch)	2.559	3.110	3.642	4.331	4.961	5.906
G (inch)	1.280	1.555	1.831	2.165	2.480	2.953
H (inch)	1.280	1.555	1.673	2.205	2.460	2.854
N (inch)	1.358	1.654	1.949	2.362	2.717	3.228
ØA (inch)	1.417	1.417	1.417	1.969	1.969	1.969
ØC (inch)	Ø 0.22	Ø 0.22	Ø 0.22	Ø 0.26	Ø 0.26	Ø 0.26
p (inch)	4.055	4.055	4.055	5.709	5.709	5.709
H1 (inch)	1.929	2.210	2.328	3.122	3.366	3.677
S (inch)	0.087	0.087	0.087	0.126	0.126	0.126
T (inch)	0.394	0.394	0.394	0.551	0.551	0.551
F (inch)	0.287	0.327	0.327	0.571	0.571	0.571
CH (inch)	1.063	1.260	1.614	1.969	2.165	2.756
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03	F05	F05	F05
P (ISO 262 Thread)	M4	M4	M4	M5	M5	M5
Cv (GPM) straight pattern	11.2	32.5	50.0	65.8	109.2	186
Cv (GPM) 90° pattern	6.1	13.4	19.5	30.9	50.0	80.0



TORQUE FOR ACTUATOR SIZING N.M

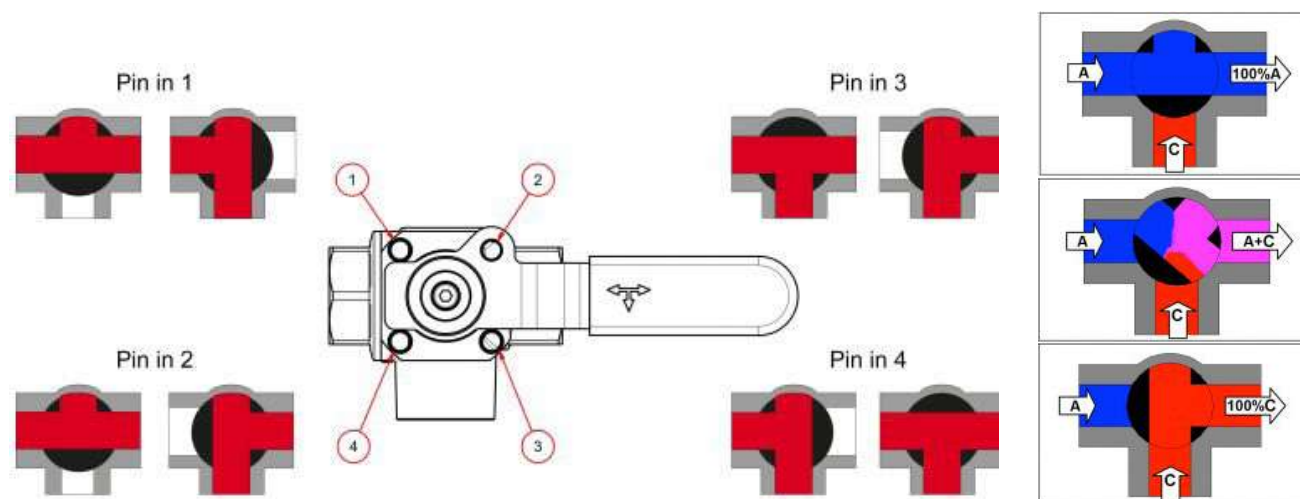
Delta P -->	0÷230 PSI	
Valve size	to open	to close
1/2"	93	93
3/4"	115	115
1"	261	261
1 1/4"	124	124
1 1/2"	204	204
2"	336	336

With the configuration of T-port a stop pin can be fixed in any position of the 4 provided in the flange (1, 2, 3 or 4) and the lever can be rotated freely through 90°, the flow assumes the directions indicated in the diagram; in case of need the lever can be pulled upwards and you can reach any of the four possible positions.

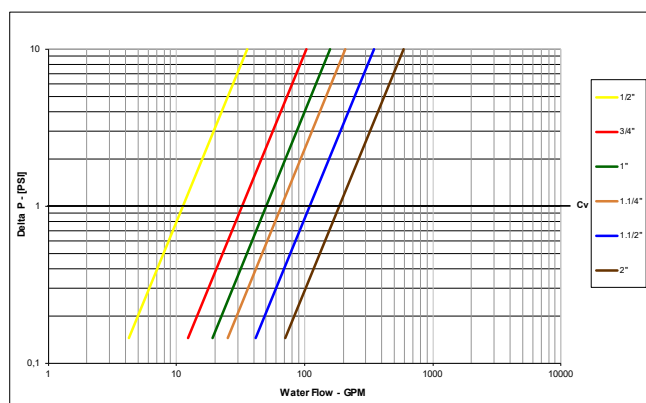
An alternative is to mount 2 pins in 2 near holes (e.g. 1 and 2). In this case, the valve does not assume a predetermined position but can be actuated just by pulling the lever towards the top.

The valve allows also to block the lever thanks to the addition of a lock on the lever's protrusion (in the drawing you can see position 2).

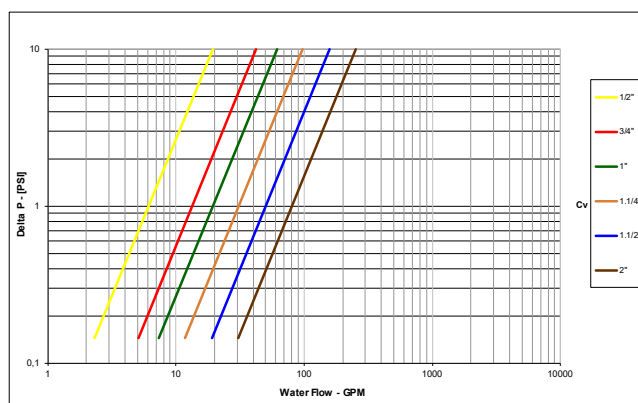
The mixing configuration is achieved by placing the pin in position 2. The flows to be mixed enter through A and C and exit through A+C.



PRESSURE DROP CHART (STRAIGHT FLOW PATTERN)



PRESSURE DROP CHART (90° FLOW PATTERN)





s.7600L

3-way, lever, 2 seats, L-port (diverting)

Female/Female/Female
1/2" - 2"
EN 10226-1



The **RuB** s.7600L is the right choice for fluid diversion and is designed with robust maintenance-free components ensuring ease of operation and safety. With a simple 90° turn, you can divert flow from one downstream outlet to the other. It combines traditional manual operation with modern automation. It is also very easy to convert from its sturdy lever handle to ISO 5211 actuator flange assembly. It features low operating torque and a special wear reducing self-compensating valve seat design that meets our 100,000 cycle life test requirement. The valve can be purchased separately, with handle or with a **RuB** actuator already mounted.



QUALITY

- Electronic 100% seal test guaranteed for maximum safety
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO5211 / DIN3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way L-port design for flow diversion

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double O-rings at the stem for maximum safety

SEALING

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 20 bar (300 PSI) non-shock cold working pressure
- -20°C to +150°C (-4°F to +302°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design
- Stainless steel stem (1.4401/ AISI 316)
- Configurations with 4 seats & T-port (s.7300L) or 2 seats & L-port (s.7600L)

PED DIRECTIVE

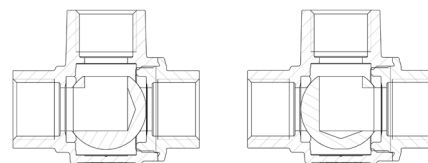
- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking.

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia – Kazakhstan – Belarus)

NOTE: approvals apply to specific configurations/sizes only.

S.76 3-WAY "L" PORT OPERATING POSITIONS



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact Power electric actuator
- ISO 7/1, BS 21 BSPT taper female threads
- S.7600 without handle, actuator ready
- Various actuator linkage kit



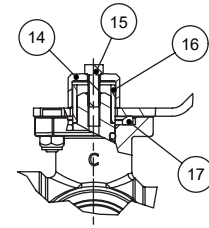
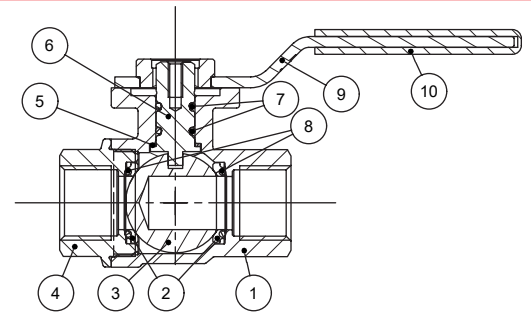
s.7600L XCES7600L - 5466

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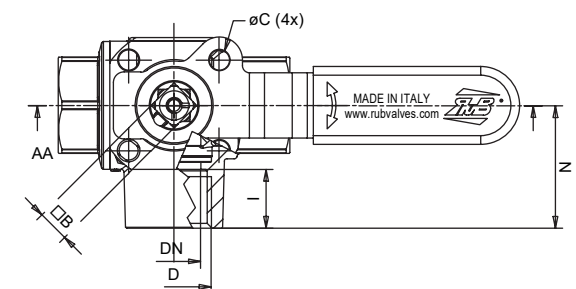
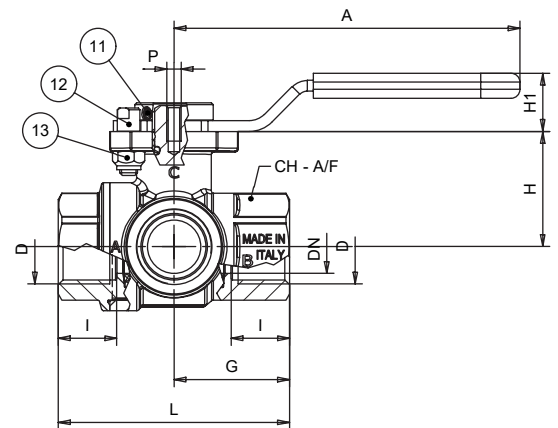


Part description		Q.ty	Material
1	Nickel plated body (External nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE graphite filled 15%
3	Chrome plated ball	1	CW617N
4	Sand blasted nickel plated end cap (External nickel plated, unplated inside)	1	CW617N
5	Washer	1	PTFE carbon filled 25%
6	Nickel plated stem O-ring design	1	CW617N
7	O-Ring	2	FPM
8	O-Ring	2	FPM
9	Geomet® plated steel handle	1	DD11 (EN10111)
10	Black dipped coating	1	PVC
11	Stainless steel screw	1	1.4301 / AISI304
12	Unplated stop	1	CW617N
13	Zinc plated steel nut	1	Class 8 (UNI7474)
14	Unplated cap	1	CW614N
15	Stainless steel Exagonal screw	1	1.4301 / AISI304
16	Square adaptor 11-14 (only for 1 1/4 size)	1	Steel
17	Washer	1	PTFE

Code	S76D00L	S76E00L	S76F00L	S76G00L	S76H00L	S76I00L
Size (inch)	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	15	20	25	30.4	38	48
I (mm)	16.5	19	22.5	25	26	29
L (mm)	65	79	92.5	109.5	126	150
G (mm)	32.5	39.5	46.5	55	63	75
H (mm)	32.5	39.5	42.5	56	63.2	72
N (mm)	34.5	42	49.5	60	69	82
A (mm)	97	97	97	145	145	145
ØC (mm)	Ø5.6	Ø5.6	Ø5.6	Ø6.6	Ø6.6	Ø6.6
H1 (mm)	16.5	16.5	16.5	23	23	23
Square B (mm)	9	9	9	11	11	14
CH A/F (mm)	27	32	41	50	55	70
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03	F05	F05	F05
P (ISO 262 Thread)	M4	M4	M4	M5	M5	M5
Kv (m³/h)	5.7	11.1	16.7	28.1	44.5	71.1



1.1/4"-1.1/2"-2" handle configuration



TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0÷16 bar	
Valve size	to open	to close
1/2"	3,5	3,5
3/4"	4,0	4,0
1"	4,5	4,5
1 1/4"	11,7	11,7
1 1/2"	21,5	21,5
2"	28,0	28,0

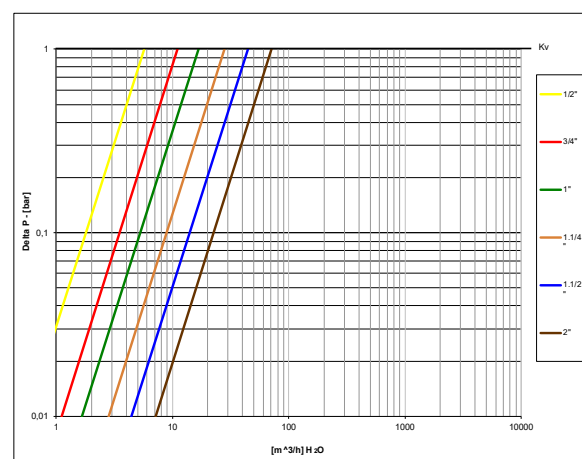
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE DROP CHART





s.7641L

3-way, lever, 2 seats, L-port (diverting)

Female/Female/Female
1/2" - 2"

The **RuB** s.7641L is the right choice for fluid diversion and is designed with robust maintenance-free components ensuring ease of operation and safety. With a simple 90° turn, you can divert flow from one downstream outlet to the other. It combines traditional manual operation with modern automation. It is also very easy to convert from its sturdy lever handle to ISO 5211 actuator flange assembly. It features low operating torque and a special wear reducing self-compensating valve seat design that meets our 100,000 cycle life test requirement. The valve can be purchased separately, with handle or with a **RuB** actuator already mounted.



QUALITY

- Electronic 100% seal test guaranteed for maximum safety
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO5211 / DIN3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way L-port design for flow diversion

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double O-rings at the stem for maximum safety

SEALING

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 450 PSI up to 1", 300 PSI over 1", non-shock cold working pressure
- -4°F to +350°F (-20°C to +170°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

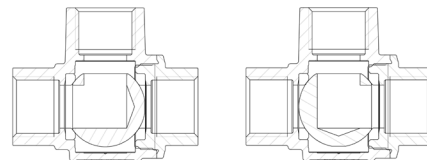
- Custom design
- Stainless steel stem (1.4401/ AISI 316)
- Configurations with 4 seats, L-port (s.7241L) or T-port (s.7341L)

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

S.76 3-WAY "L" PORT OPERATING POSITIONS



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact Power electric actuator
- S.7641 without handle, actuator ready
- Various actuator linkage kit



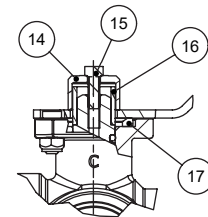
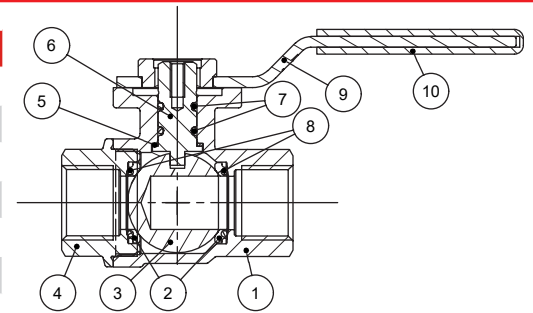
s.7641L XCES7641L - 5466

Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.

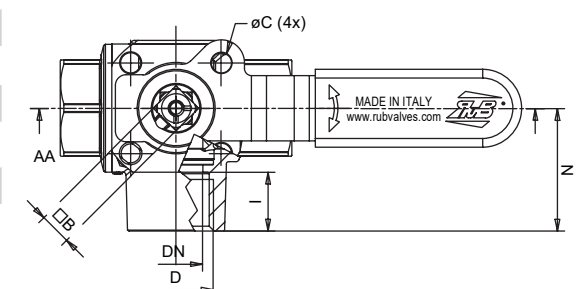
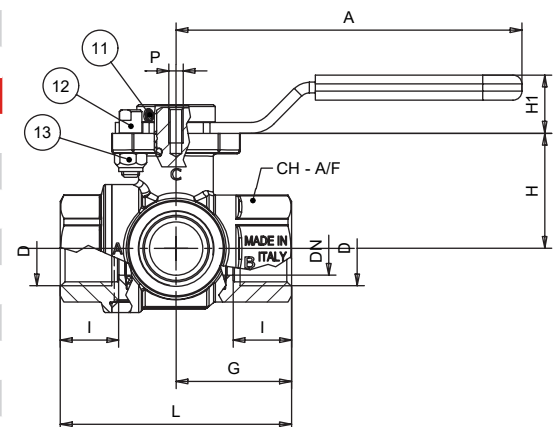


Part description	Q.ty	Material
1 Sand blasted unplated body	1	CW617N
2 Seat	2	PTFE graphite filled 15%
3 Chrome plated ball	1	CW617N
4 Sand blasted unplated end-cap	1	CW617N
5 Washer	1	PTFE carbon filled 25%
6 Nickel plated stem O-ring design	1	CW617N
7 O-Ring	2	FPM
8 O-Ring	2	FPM
9 Geomet® plated steel handle	1	DD11(EN10111)
10 Black dipped coating	1	PVC
11 Stainless steel screw	1	1.4401 / AISI304
12 Unplated stop	1	CW617N
13 Zinc plated steel nut	1	Class 8 (UNI7474)
14 Stainless steel Exagonal screw	1	1.4401 / AISI304
15 Unplated cap	1	CW614N
16 Washer	1	PTFE

Code	S76D41L	S76E41L	S76F41L	S76G41L	S76H41L	S76I41L
Size (inch)	1/2	3/4	1	1 1/4	1 1/2	2
DN (inch)	0.591	0.787	0.984	1.197	1.496	1.890
I (inch)	0.610	0.709	0.827	0.906	0.965	1.043
L (inch)	2.559	3.110	3.642	4.311	4.961	5.906
G (inch)	1.280	1.555	1.831	2.165	2.480	2.953
H (inch)	1.280	1.555	1.673	2.205	2.500	2.854
N (inch)	1.358	1.654	1.949	2.362	2.717	3.228
A (inch)	3.819	3.819	3.819	5.709	5.709	5.709
ØC (inch)	Ø 0.22	Ø 0.22	Ø 0.22	Ø 0.26	Ø 0.26	Ø 0.26
H1 (inch)	0.984	0.984	0.984	1.378	1.378	1.378
Square B (inch)	0.354	0.354	0.354	0.551	0.551	0.551
CH A/F (inch)	1.063	1.260	1.614	1.969	2.165	2.756
Flange connection DIN ISO 5211 DIN 3337	F03	F03	F03	F05	F05	F05
P (ISO 262 Thread)	M4	M4	M4	M5	M5	M5
CV (GPM)	6.6	12.9	19.3	32.5	51.4	82.2



1.1/4"-1.1/2"-2" handle configuration



TORQUE FOR ACTUATOR SIZING IN-LB

Delta P -->	0÷230 PSI	
Valve size	to open	to close
1/2"	31	31
3/4"	36	36
1"	40	40
1 1/4"	104	104
1 1/2"	190	190
2"	248	248

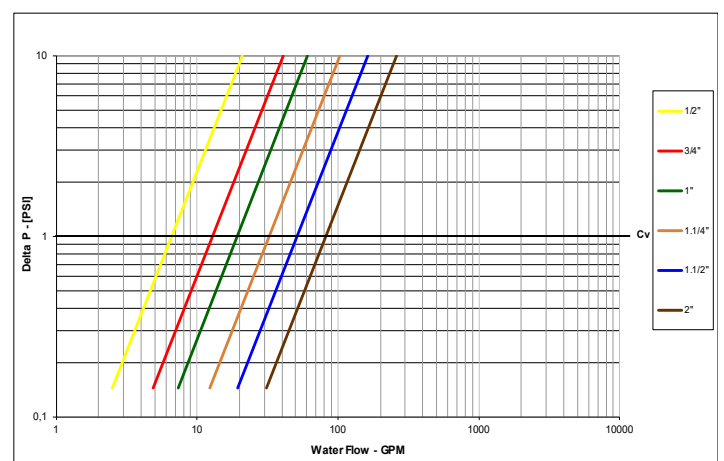
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE DROP CHART





s.7650L

3-way, lever, 2 seats, L-port (diverting)

Female/Female/Female
1/2" - 2"



The RuB s.7650L is the right choice for fluid diversion and is designed with robust maintenance-free components ensuring ease of operation and safety. With a simple 90° turn, you can divert flow from one downstream outlet to the other. It combines traditional manual operation with modern automation. It is also very easy to convert from its sturdy lever handle to ISO 5211 actuator flange assembly. It features low operating torque and a special wear reducing self-compensating valve seat design that meets our 100,000 cycle life test requirement. The valve can be purchased separately, with handle or with a RuB actuator already mounted.

QUALITY

- Electronic 100% seal test guaranteed for maximum safety
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO5211 / DIN3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way L-port design for flow diversion

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double O-rings at the stem for maximum safety

SEALING

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

THREADS

- ISO 7/1, BS 21 BSPT taper female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 Bar up to 1", 20 bar over 1", non-shock cold working pressure
- -20°C to +170°C (-4°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design
- Stainless steel stem (1.4401/ AISI 316)
- Configurations with 4 seats, L-port (s.7250L) or T-port (s.7350L)

PED DIRECTIVE

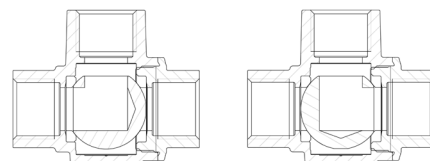
- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking.

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

S.76 3-WAY "L" PORT OPERATING POSITIONS



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact Power electric actuator
- S.7650 without handle, actuator ready
- Various actuator linkage kit



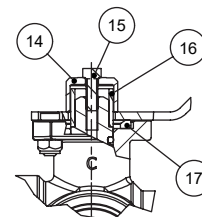
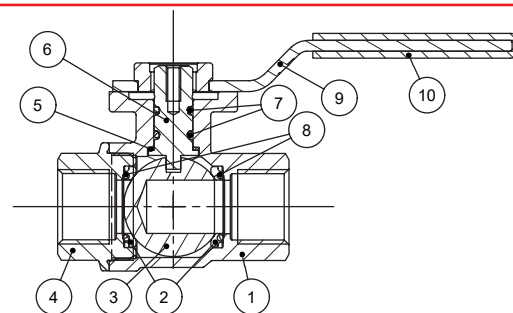
s.7650L XCES7650L - 5466

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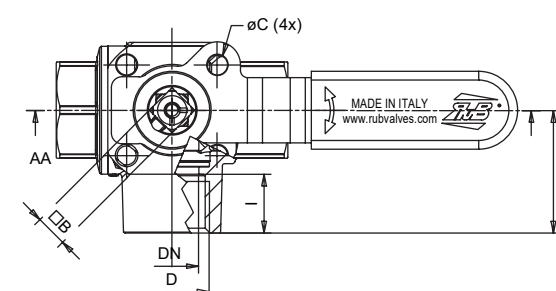
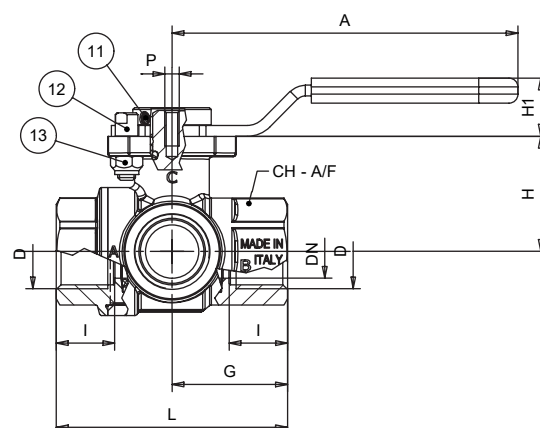


INDUSTRY

Part description		Q.ty	Material
1	Sand blasted nickel plated body (External nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE graphite filled 15%
3	Chrome plated ball	1	CW617N
4	Sand blasted nickel plated end cap (External nickel plated, unplated inside)	1	CW617N
5	Washer	1	PTFE carbon filled 25%
6	Nickel plated stem O-ring design	1	CW617N
7	O-Ring	2	FPM
8	O-Ring	2	FPM
9	Geomet® plated steel handle	1	DD11 (EN10111)
10	Black dipped coating	1	PVC
11	Stainless steel screw	1	1.4301 / AISI304
12	Unplated stop	1	CW617N
13	Zinc plated steel nut	1	Class 8 (UNI7474)
14	Unplated cap	1	CW614N
15	Stainless steel Exagonal screw	1	1.4301 / AISI304
16	Square adaptor 11-14 (only for 1 1/4 size)	1	Steel
17	Washer	1	PTFE



1.1/4"-1.1/2"-2" handle configuration



Code	S76D50L	S76E50L	S76F50L	S76G50L	S76H50L	S76I50L
Size (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	15	20	25	30.4	38	48
I (mm)	16.5	19	22.5	25	26	29
L (mm)	65	79	92.5	109.5	126	150
G (mm)	32.5	39.5	46.5	55	63	75
H (mm)	32.5	39.5	42.5	56	63.2	72
N (mm)	34.5	42	49.5	60	69	82
A (mm)	97	97	97	145	145	145
ØC (mm)	Ø5.6	Ø5.6	Ø5.6	Ø6.6	Ø6.6	Ø6.6
H1 (mm)	16.5	16.5	16.5	23	23	23
Square B (mm)	9	9	9	11	11	14
CH A/F (mm)	27	32	41	50	55	70
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03	F05	F05	F05
P (ISO 262 Thread)	M4	M4	M4	M5	M5	M5
Kv (m³/h)	5.7	11.1	16.7	28.1	44.5	71.1

TORQUE FOR ACTUATOR SIZING N.M

Delta P --> Valve size	0÷16 bar	
	to open	to close
1/2"	3,5	3,5
3/4"	4,0	4,0
1"	4,5	4,5
1 1/4"	11,7	11,7
1 1/2"	21,5	21,5
2"	28,0	28,0

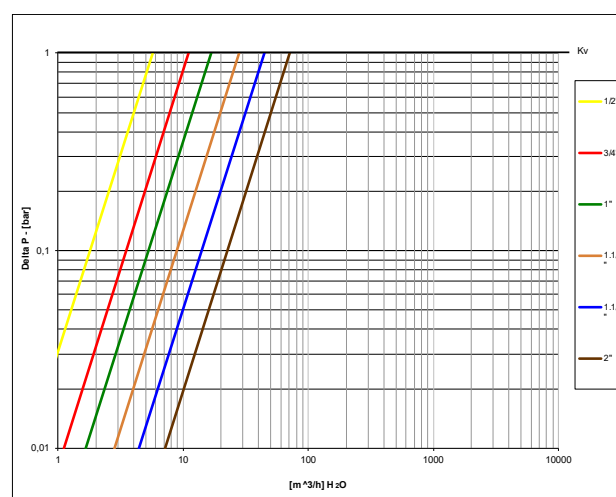
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE DROP CHART





s.84 EN331 spring return

Female/Female
1/4" - 2", EN 10226-1

Access to fluid systems in public places could potentially convert into costs and safety problems. In order to avoid unattended valves being left open with negative economic or environmental consequences, **RuB** developed the automatic self-closing valve.

The valve can be opened normally by rotating the handle 90° and when the user releases the handle, the valve shuts off automatically. Best solution for service stations, trucks, public areas, gardens. The same features are also useful in industrial applications, where a valve must not be left open unattended.



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Travel stops on body to avoid stresses at stem
- Chrome plated brass ball for longer life with rinse hole

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Robust spring ensures auto shutt-off with max pressure in valve
- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection

OPTIONS

- Stainless steel handle (1.4016 / AISI 430)
- Taper male by parallel female threads

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Custom Design

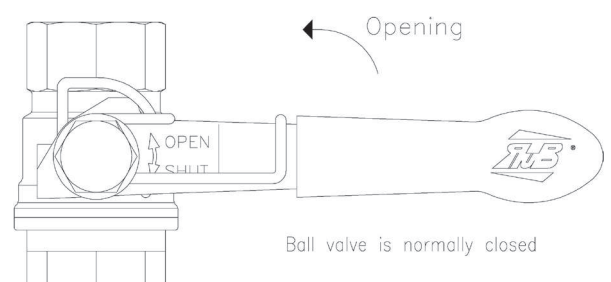
PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25 mm.

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

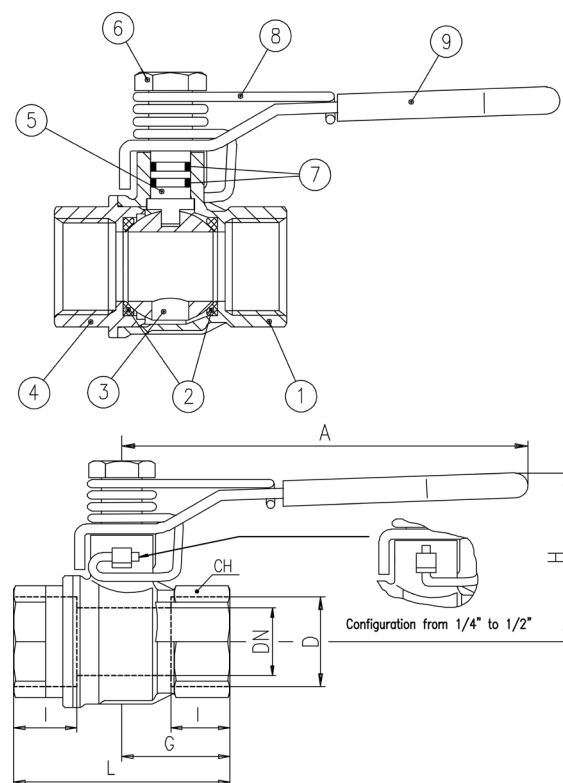


s.84 EN331 spring return XCES84EMR - 5466

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	Part description	Q.ty	Material
1	Nickel plated body (external treatment)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole (read rinse hole on sizes from 3/4" up to 2")	1	CW617N
4	Nickel plated end-cap (external treatment)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Unplated spring nut	1	CW617N
7	O-Ring	2	FPM
8	Spring return	1	1.4310 (AISI 302)
9	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)



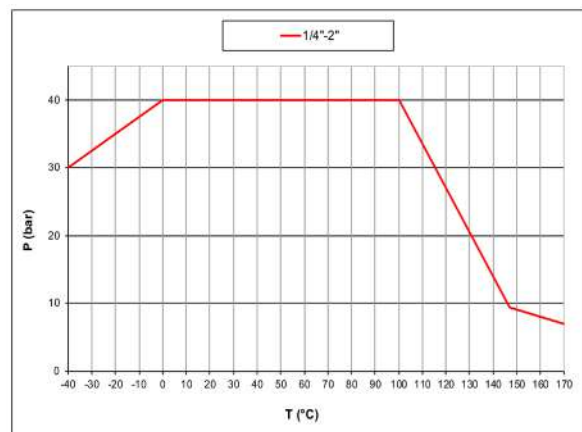
1 1/4" - 2" hollow ball

Code	S84B00M	S84C00M	S84D00M	S84E00M	S84F00M	S84G00M	S84H00M	S84I00M
D (Inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	12	12	15,5	17	21	23	23	26,5
L (mm)	45	45	59	64	81	93	102	121
G (mm)	22,5	22,5	29,5	32	40,5	46,5	51	60,5
A (mm)	100	100	100	120	120	158	158	158
H (mm)	38	38	43	50	54	73	79	86
CH (mm)	17	20	25	31	40	49	54	68,5
Kv (m3/h)	3,9	8,2	28	36	62	79	124	178

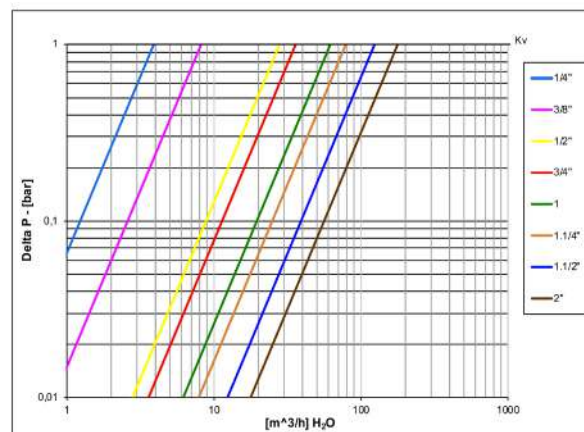
DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

Ball valves are marked CE on handle from 1 1/4" to 2" as follow: CE XXCODEXX Cat I-A

PRESSURE-TEMPERATURE CHART



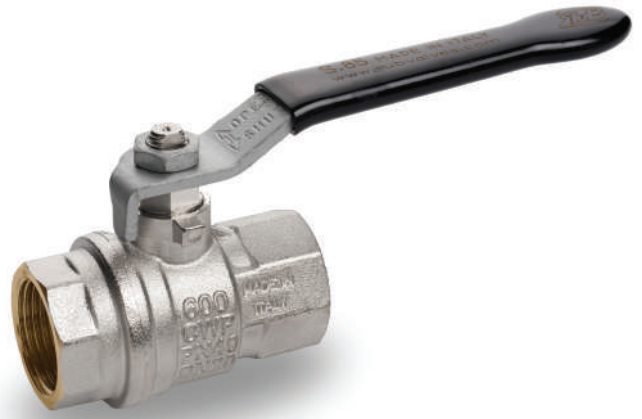
PRESSURE DROP CHART





s.85

Female/Female
1/4" - 2"
EN 10226-1, packing gland



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Pure PTFE adjustable packing gland and reinforced washer for lower torque and easy maintenance

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball and/or stem (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

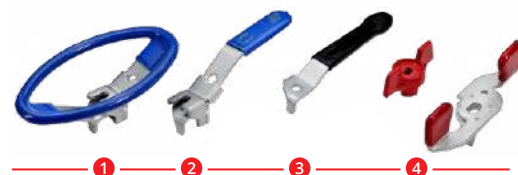
APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle **1**
- Patented locking device **2**
- Stainless steel handle (1.4016 / AISI 430) **3**
- T-handle **4**
- Stem extension
- Stubby handle



s.85 XCES85 - 5466

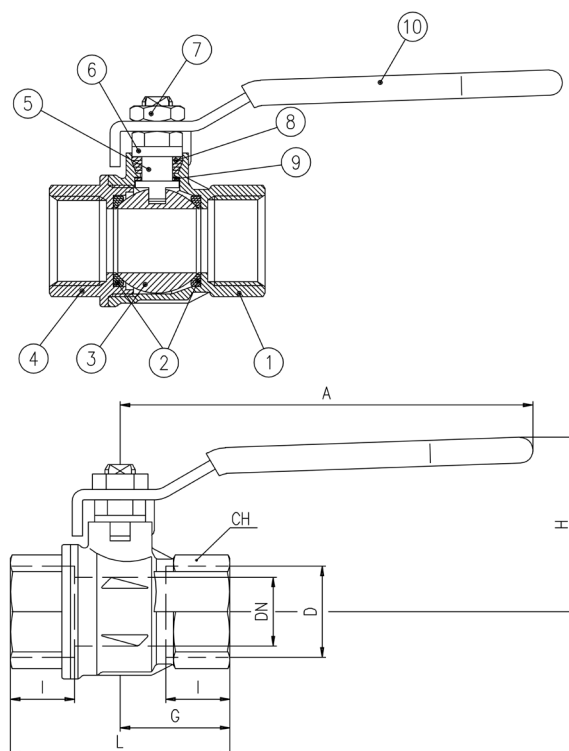
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INDUSTRY

	Part description	Q.ty	Material
1	Nickel plated body (external treatment)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external treatment)	1	CW617N
5	Nickel plated stem packing gland design	1	CW617N
6	Nickel plated gland nut	1	CW617N
7	Geomet® nut	1	C4C (EN10263-2)
8	Packing gland seal	1	PTFE
9	Washer	1	PTFE carbon filled 25%
10	Black PVC coated Geomet® steel handle	1	DD11 (EN10111)

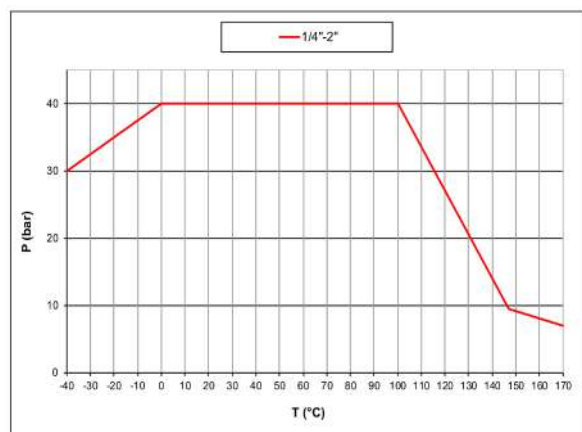
1 1/4"-2" hollow ball



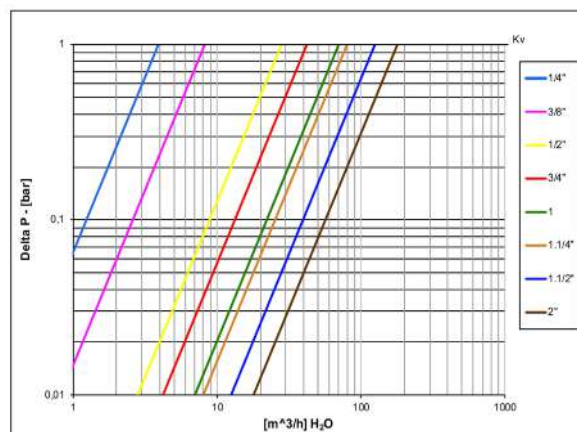
Code	S85B01	S85C01	S85D01	S85E01	S85F01	S85G01	S85H01	S85I01
D (Inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	12	12	15,5	17	21	23	23	26,5
L (mm)	45	45	59	64	81	93	102	121
G (mm)	22,5	22,5	29,5	32	40,5	46,5	51	60,5
A (mm)	82	82	100	120	120	158	158	158
H (mm)	39,5	39,5	43	50,5	54,5	76	82	89
CH (mm)	17	20	25	31	40	49	54	68,5
Kv (m3/h)	3,9	8,2	28	42	70	80	125	179

Ball valves are marked CE on handle from 1 1/4" to 2" as follow:
CE XXCODEXX Cat I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.92 barrel drain

**Male/Female
3/4" – 1"**

The s.92 **RuB** brass ball valve is specifically designed to offer easy and effective drainage of storage tanks and can be installed at the bottom of your barrel or tank and operated with a simple 90° turn to allow full flow accessibility to quickly drain your water, oil, gasoline or other fluids. Its 45° threaded elbow allows for additional pipe connection to conveniently install the drain valve in the best location and in addition the valve features a patented **RuB** tamper-proof locking handle to ensure there is no unauthorized access to the tank. The s.92 can easily be installed on small tanks, utility tanks, overhead farm tanks, and drums as a gravity flow shut-off valve. Another good idea from **RuB**!



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Pure PTFE adjustable packing gland and reinforced washer for lower torque and easy maintenance

SEALING

- Glass filled pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 male by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel lockable handle patent n. 7074-B/90 with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar), (150 WSP / -10 bar all sizes) non-shock cold working pressure
- *150 psig (10 bar) non-shock steam working pressure. Not suitable for throttling steam
- -40°F to +366°F (-40°C to + 170 °C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball and/or stem (1.4401 / AISI 316)
- Custom design
- Pure PTFE seals
- EN 10226-1, ISO 228 parallel female by female threads
- ISO 7/1, BS 21 BSPT taper female by female threads

PED DIRECTIVE

- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle ①
- Stainless steel handle (1.4016 / AISI 430) ②
- Stubby handle ③
- T-handle ④
- Non-locking Geomet® carbon steel lever handle

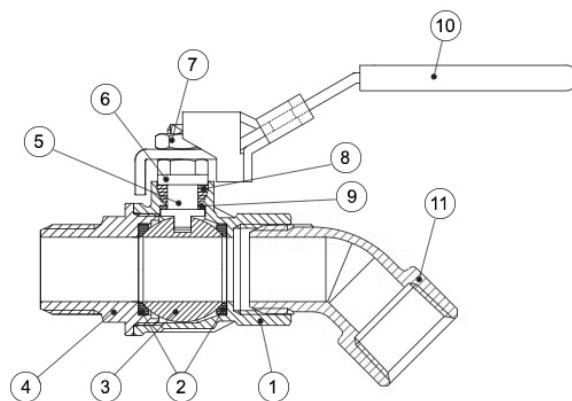


s.92 barrel drain XCES92S2 - 5466

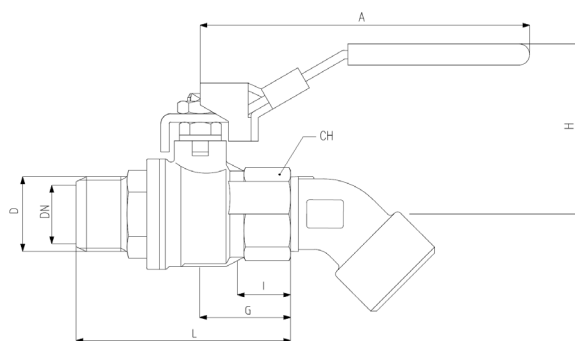
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	Part description	Q.ty	Material
1	Unplated NPT body	1	CW617N
2	Seat	2	PTFE glass filled 5-15%
3	Chrome plated ball	1	CW617N
4	Unplated NPT end-cap	1	CW617N
5	Nickel plated stem packing gland design	1	CW617N
6	Nickel plated gland nut	1	CW617N
7	Geomet® nut	1	CB4FF (EN10263-2)
8	Packing gland seal	1	PTFE
9	Washer	1	PTFE carbon filled 25%
10	Light blue PVC coated Geomet® steel lockable handle	1	DD11 (EN10111)
11	Elbow	1	CW617N

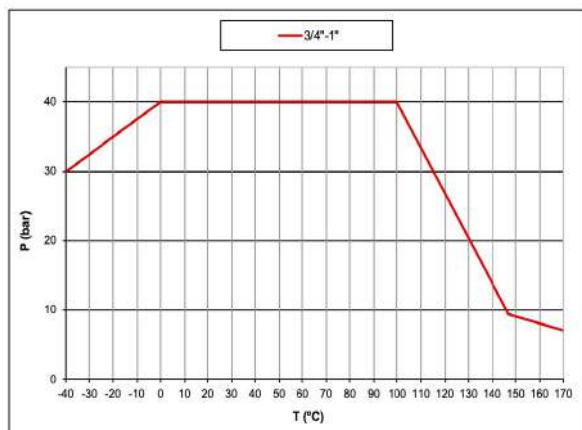


Code	S92ES2MO	S92FS2MO
D (inch)	3/4"	1"
DN (mm)	20	25
I (mm)	17	21
L (mm)	76,5	92,4
G (mm)	32	40,5
A (mm)	117	117
H (mm)	60	64
CH (mm)	31	40
Kv (m3/h)	42	70

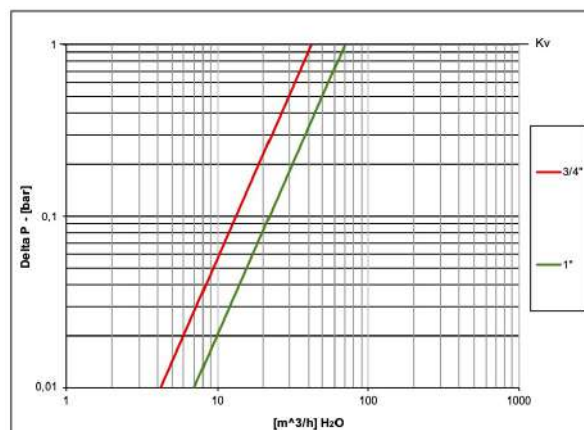


DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.92S NPT solid ball

Female/Female
1/4" - 4"



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass solid ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Pure PTFE adjustable packing gland and reinforced washer for lower torque and easy maintenance
- Triple stem seals in sizes over 2"

SEALING

- Glass filled pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B. 1.20.1 female by female threads

FLOW

- Full port to DIN 3357 for maximum flow
- Solid ball for optimum CV

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) up to 2", 450 PSI (30 bar) over 2", (150 WSP / -10 bar all sizes) non-shock cold working pressure
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- *150 psig (10 bar) non-shock steam working pressure. Not suitable for throttling steam
- -40°F to +366°F (-40°C to +185°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball and/or stem (1.4401 / AISI 316)
- Custom design
- Pure PTFE seals

APPROVED BY OR IN COMPLIANCE WITH

- Canadian standards Association (United States, Canada)
- Factory Mutual (United States)
- RoHS Compliant (EU)
- GOST-R (Russia)
- Underwriters Laboratories (United States, Canada):
 - Guide YSDT: LP-Gas shut-off valve
 - Guide YRBX: Flammable liquid shut-off valve
 - Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
 - Guide MHKZ: No. 6 oil at 250°F
- CRN-TSSA acc. to MSS SP110 (Canada)
- Kuwait Fire Service Directorate (Kuwait)
- Meeting WW-V-35C Federal U.S. Specification (United States)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS UP TO 2" SIZE

- Oval lockable handle up to 2", round over 2" ①
- Patented locking device for valves up to 4" ②
- Stainless steel handle (1.4016 / AISI 430) ③
- Stem extension
- Stubby handle ④
- T-handle ⑤



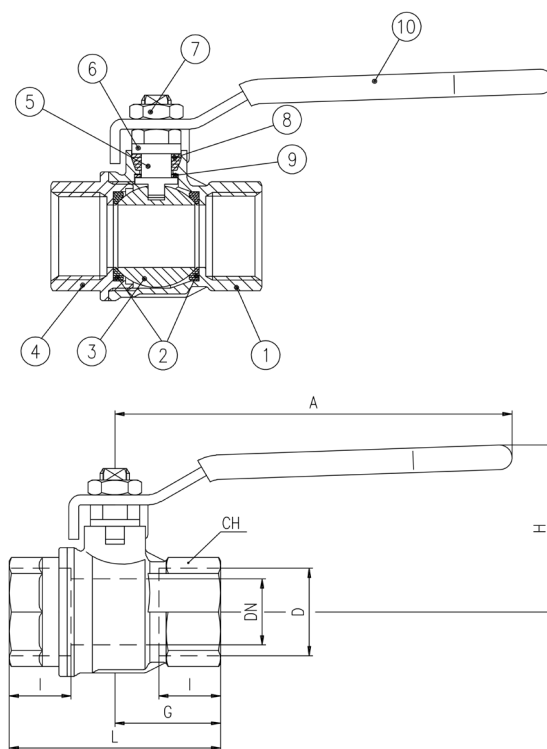
s.92S NPT solid ball XCES92S - 5466

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INDUSTRY

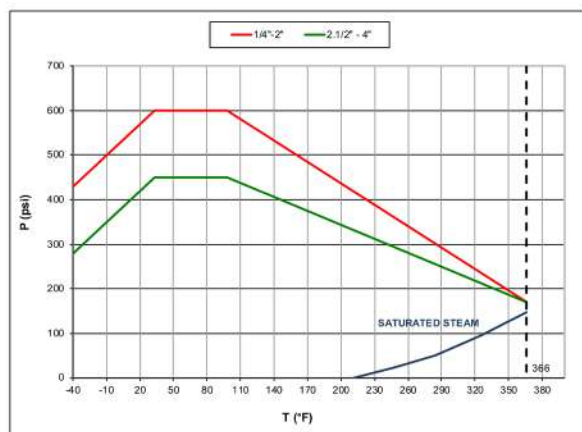
	Part description	Q.ty	Material
1	Unplated NPT body	1	CW617N
2	Seat	2	PTFE glass filled 5-15%
3	Chrome plated solid ball	1	CW617N
4	Unplated NPT end-cap	1	CW617N
5	Nickel plated stem packing gland design	1	CW617N
6	Nickel plated gland nut	1	CW617N
7	Geomet® nut	1	C4C (EN10263-2)
8	Packing gland seal	1	PTFE
9	Washer	1	PTFE carbon filled 25%
10	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)



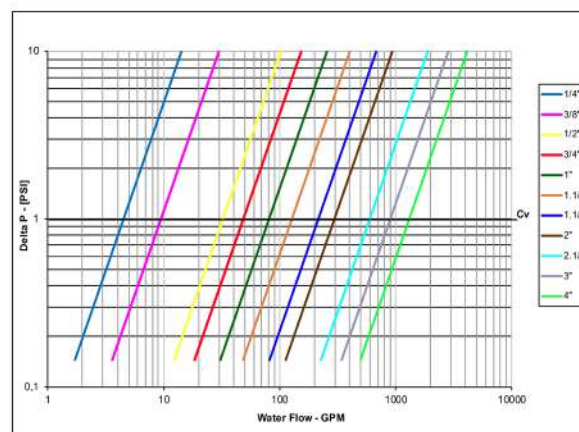
Code	S92B41	S92C41	S92D41	S92E41	S92F41	S92GP41	S92GH41	S92GI41	S92L41	S92M41	S92N41
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
DN (inch)	0,315	0,374	0,591	0,748	0,945	1,181	1,496	1,890	2,520	2,992	3,937
I (inch)	0,472	0,472	0,61	0,669	0,827	0,906	0,906	1,043	1,26	1,378	1,634
L (inch)	1,772	1,772	2,323	2,520	3,189	3,661	4,016	4,764	6,142	6,969	8,504
G (inch)	0,886	0,886	1,161	1,260	1,594	1,831	2,008	2,382	3,071	3,484	4,252
A (inch)	3,228	3,228	3,937	4,724	4,724	6,22	6,22	6,22	10,039	10,039	10,039
H (inch)	1,563	1,563	1,695	1,988	2,153	2,988	3,236	3,5	5,197	5,512	6,063
CH (inch)	0,669	0,787	0,984	1,22	1,575	1,929	2,126	2,697	3,346	3,898	4,921
Cv (GPM)	4,5	9,5	32,3	48,5	80,9	127,1	214,9	295,8	596,2	896,5	1305,5

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.92 NPT SS trim

Female/Female
1/4" - 2"

Abrasive media? Life problems with your current valves?

RuB has the solution! Thanks to its long experience in industrial applications, **RuB** offers a variety of configurations specifically designed to solve critical situations. Brass is notably a "soft" alloy with high copper content having features that make it ideal for plumbing and sanitary installations. When it comes to industrial applications, however, you may need the tough chemistry of stainless steel.

And here we are: **RuB** combines the properties of a brass body with strength of stainless steel ball and stem. Ideal for abrasive media and other severe applications.



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Stainless steel ball and stem for abrasive liquids
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof stainless steel stem
- Pure PTFE adjustable packing gland and reinforced washer for lower torque and easy maintenance

SEALING

- Glass filled pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B. 1.20.1 female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) up to 2", (150 WSP / -10 bar) non-shock cold working pressure
- *150 psig (10 bar) non-shock steam working pressure. Not suitable for throttling steam
- -40°F to +366°F (-40°C to +185°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design
- Zure PTFE seals
- Male by female NPT threads

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle ①
- Patented locking device ②
- Stem extension
- Stainless steel handle (1.4016 / AISI 430) ③
- Stubby handle ④
- T-handle ⑤

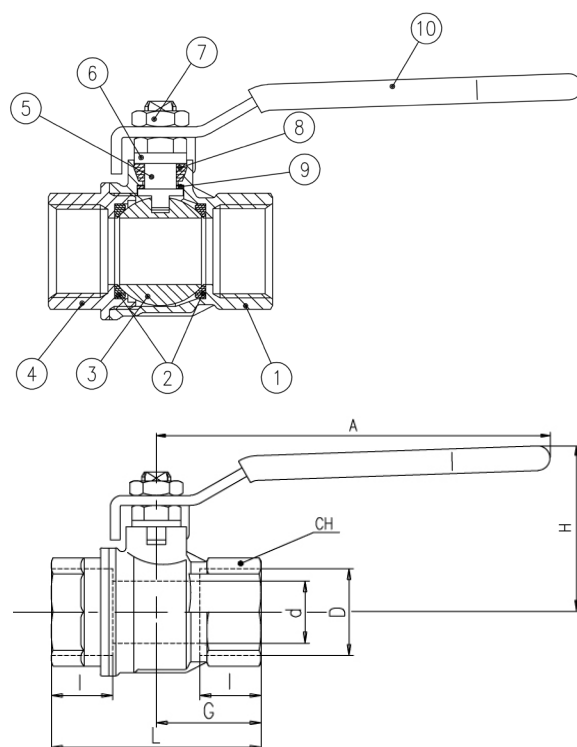


s.92 NPT SS TRIM XCES9248 - 5466

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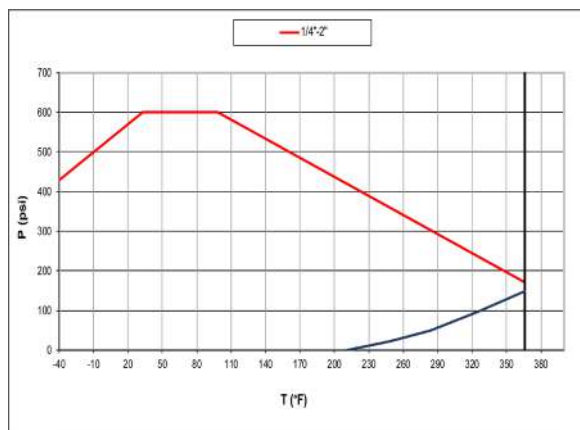
	Part description	Q.ty	Material
1	Unplated NPT body	1	CW617N
2	Seat	2	PTFE glass filled 5-15%
3	Stainless steel ball	1	1.4401 / AISI 316
4	Unplated NPT end-cap	1	CW617N
5	Stainless steel stem packing gland design	1	1.4401 / AISI 316
6	Nickel plated gland nut	1	CW617N
7	Nickel plated handle nut	1	CW617N
8	Packing gland seal	1	PTFE
9	Washer	1	PTFE carbon filled 25%
10	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)



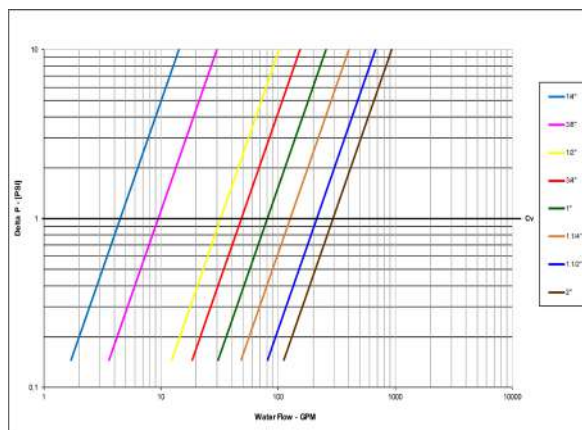
Code	S92B48	S92C48	S92D48	S92E48	S92F48	S92G48	S92H48	S92I48
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (inch)	0,315	0,374	0,591	0,748	0,945	1,181	1,496	1,890
I (inch)	0,472	0,472	0,610	0,669	0,827	0,906	0,906	1,043
L (inch)	1,772	1,772	2,323	2,520	3,189	3,661	4,016	4,764
G (inch)	0,886	0,886	1,161	1,260	1,594	1,831	2,008	2,382
A (inch)	3,228	3,228	3,937	4,724	4,724	6,220	6,220	6,220
H (inch)	1,563	1,563	1,695	1,988	2,153	2,988	3,236	3,500
CH (inch)	0,669	0,787	0,984	1,22	1,575	1,929	2,126	2,697
Cv (GPM)	4,5	9,5	32,3	48,5	80,9	127,10	214,90	295,80

d shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.95 NPT spring return

Female/Female
1/4" - 2"

Access to fluid systems in public places could potentially convert into costs and safety problems.

In order to avoid unattended valves being left open with negative economic or environmental consequences, **RuB** developed the automatic self-closing valve.

The valve can be opened normally by rotating the handle 90° and when the user releases the handle, the valve shuts off automatically.

Best solution for service stations, trucks, public areas, gardens. The same feature is useful in industrial applications, where a valve must not be left open unattended.



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stresses at stem
- Chrome plated brass ball for longer life

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Robust spring ensures auto shutt-off with max pressure in valve
- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) non-shock cold working pressure
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- -40°F / +350°F (-40°C / +170°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Custom design

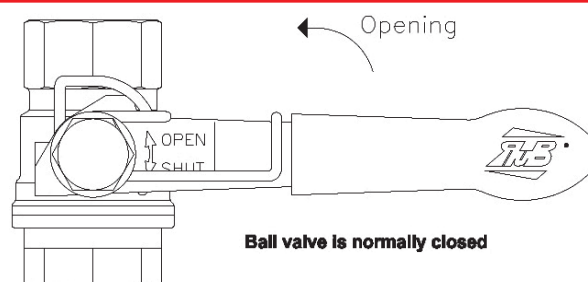
APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- Underwriters Laboratories (United States, Canada):
 - Guide YSDT: LP-Gas shut-off valve
 - Guide YRBX: Flammable liquid shut-off valve
 - Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
 - Guide MHKZ: No. 6 oil at 250°F
- Canadian standards Association (United States, Canada)
- Factory Mutual (United States)
- RoHS Compliant (EU)
- Meeting WW-V-35C Federal U.S. Specification (United States)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Stainless steel handle (1.4016 / AISI 430)



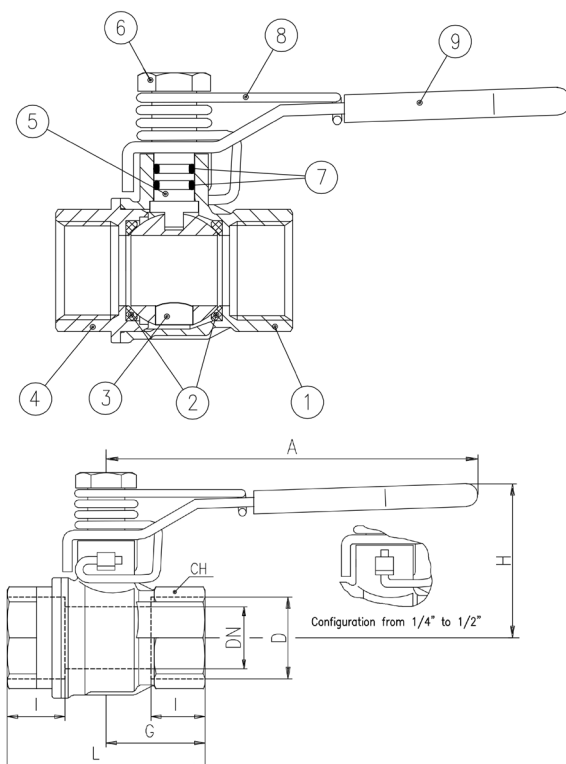
s.95 NPT SPRING RETURN XCES95MR - 5466

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	Part description	Q.ty	Material
1	Unplated NPT body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated NPT end-cap	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Unplated spring nut	1	CW617N
7	O-Ring	2	FPM
8	Spring return	1	1.4310 (AISI 302)
9	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)

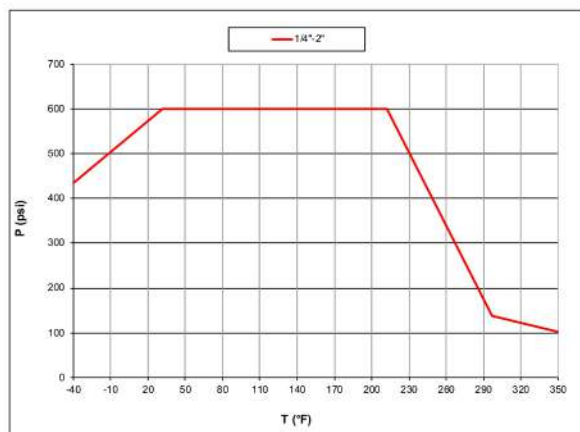
1 1/4"- 2" hollow ball



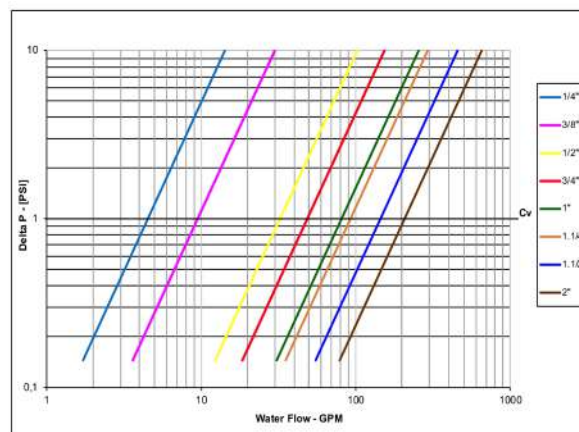
Code	S95B41MR	S95C41MR	S95D41MR	S95E41MR	S95F41MR	S95G41MR	S95H41MR	S95I41MR
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (inch)	0.315	0.375	0.591	0.748	0.945	1.181	1.496	1.890
I (inch)	0.472	0.472	0.610	0.669	0.827	0.906	0.906	1.043
L (inch)	1.772	1.772	2.323	2.520	3.189	3.661	4.016	4.764
G (inch)	0.886	0.886	1.162	1.260	1.594	1.831	2.008	2.382
A (inch)	3.228	3.228	3.937	4.724	4.724	6.220	6.220	6.220
H (inch)	1.480	1.480	1.679	1.956	2.114	2.858	3.094	3.370
CH (inch)	0.669	0.787	0.984	1.220	1.575	1.929	2.126	2.697
Cv (GPM)	4.5	9.5	32.3	48.5	80.9	92.4	144.4	206.8

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.100 3-way 4 seats T-port

Female/FemalexF
1/4" - 2", ISO 228



QUALITY

- Chrome plated brass ball for longer life
- UNI 8858 cycle and torque tests performed

BODY

- Hot forged sand blasted nickel plated brass body and caps
- 3- way T design allows complete range of flow handling applications
- Copper alloy brass according to EN 12165 and EN 12164 specifications

STEM

- Maintenance-free, double NBR O-rings at the stem for maximum safety

SEALING

- Four seats design limits mixture among various fluids in the system
- PTFE seats

THREADS

- ISO 228 female threads

FLOW

- Extra port for lowest pressure drop

WORKING PRESSURE & TEMPERATURE

- See non- shock cold working pressure on chart
- -10°C to + 120°C (+15°F to +250°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

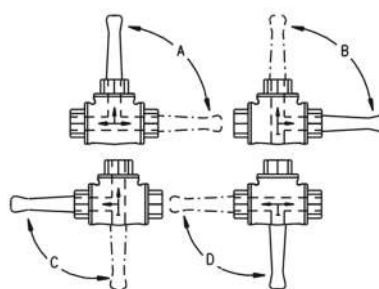
PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25mm; it cannot be used with non-dangerous gases in size larger than 32 mm

APPROVED BY OR IN COMPLIANCE WITH

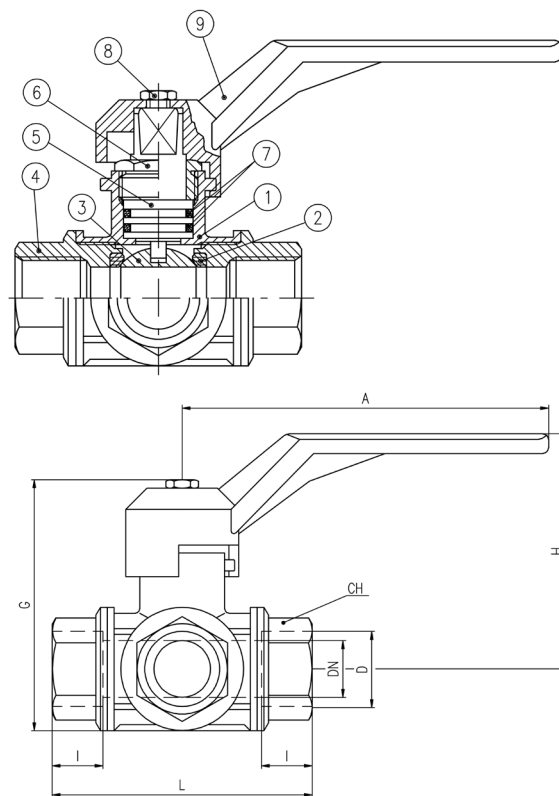
- GOST-R (Russia)

NOTE: approvals apply to specific configurations/ sizes only.



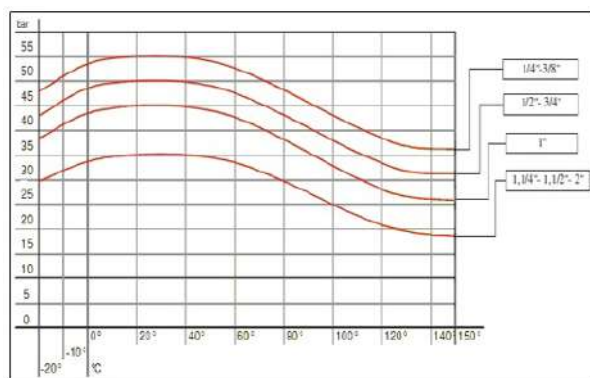
s.100 3-way T port

	Part description	Q.ty	Material
1	Nickel plated body	1	CW617N
2	Seat	4	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap	3	CW617N
5	Nickel plated stem O-ring design	1	CW614N
6	Nickel plated nut	1	CW614N
7	O-Ring	2	NBR
8	Screw	1	Steel
9	Red handle	1	Aluminum

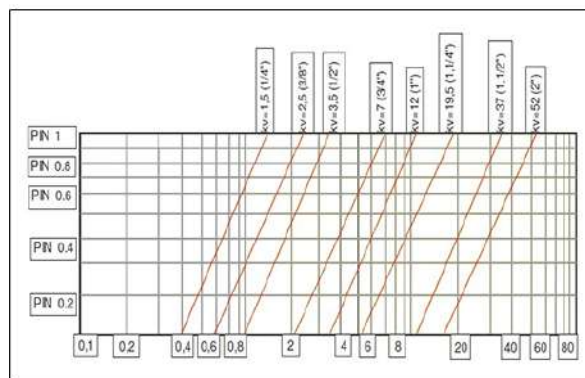


Code	100B00	100C00	100D00	100E00	100F00	100G00	100H00	100I00
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	10	12	14	18	23	29	36	45
I (mm)	19	19	19	23	25	27	31	36
L (mm)	77	77	77	92	104	118	138	162
G (mm)	75	75	75	91	105	115	128	165
A (mm)	125	125	125	145	170	170	170	260
H (mm)	65	65	65	83	96	102	109	139
CH (mm)	22	22	27	34	41	50	57	70
Kv (m³/h)	1.5	2.5	3.5	7.0	12	19.5	37	52

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.101 3-way 4 seats L-port

Female/FemalexF
1/4" - 2", ISO 228



QUALITY

- Chrome plated brass ball for longer life
- UNI 8858 cycle and torque tests performed

BODY

- Hot forged sand blasted nickel plated brass body and caps
- 3- way L design allows complete range of flow handling applications
- Copper alloy brass according to EN 12165 and EN 12164 specifications

STEM

- Maintenance-free, double NBR O-rings at the stem for maximum safety

SEALING

- Four seats design limits mixture among various fluids in the system
- PTFE seats

THREADS

- ISO 228 female threads

FLOW

- Extra port for lowest pressure drop

WORKING PRESSURE & TEMPERATURE

- See non- shock cold working pressure on chart
- -10°C to + 120°C (+15°F to +250°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

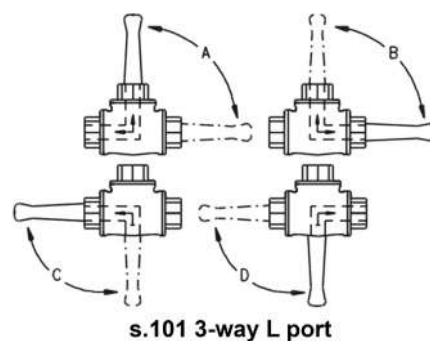
PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25mm; it cannot be used with non-dangerous gases in size larger than 32 mm

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)

NOTE: approvals apply to specific configurations/ sizes only.

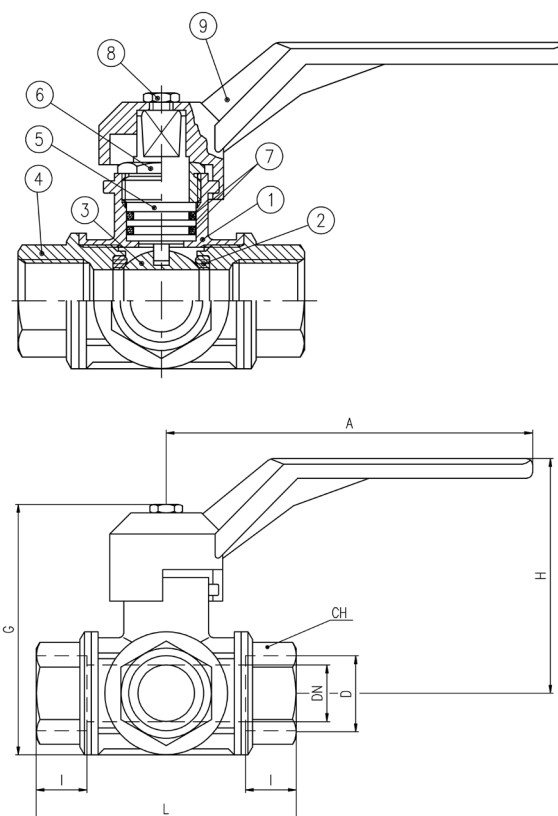


s.101 XCE101 - 5466

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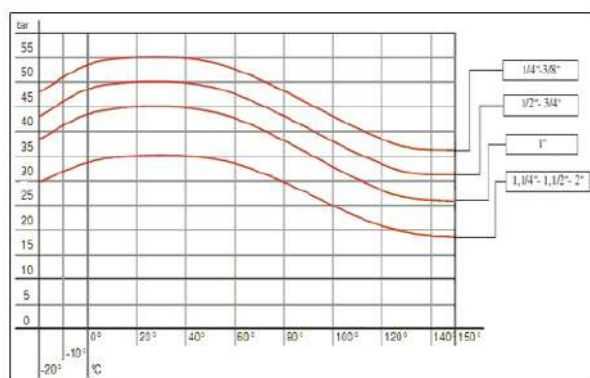


	Part description	Q.ty	Material
1	Nickel plated body	1	CW617N
2	Seat	4	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap	3	CW617N
5	Nickel plated stem O-ring design	1	CW614N
6	Nickel plated nut	1	CW614N
7	O-Ring	2	NBR
8	Screw	1	Steel
9	Red handle	1	Aluminum

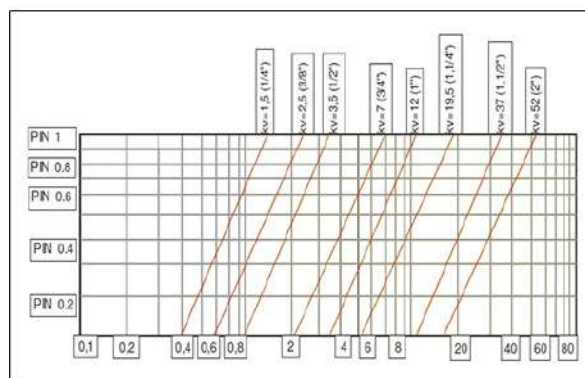


Code	101B00	101C00	101D00	101E00	101F00	101G00	101H00	101I00
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	10	12	14	18	23	29	36	45
I (mm)	19	19	19	23	25	27	31	36
L (mm)	77	77	77	92	104	118	138	162
G (mm)	75	75	75	91	105	115	128	165
A (mm)	125	125	125	145	170	170	170	260
H (mm)	65	65	65	83	96	102	109	139
CH (mm)	22	22	27	34	41	50	57	70
Kv (m³/h)	1.5	2.5	3.5	7.0	12	19.5	37	52

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.172 motor-oil compact drain ball valve

Specifically responding to a need in the automotive application, s.17 is fitted under the oil sum to ease drainage operations, and furthermore granting a most reliable tightness thanks to its special automatic locking device, even under severe conditions of vibration stress. Frozen drain plug and stripped threads are eliminated, no more contact with hot oil, no messy hands or cloths and reduced oil changing time.

PATENT PENDING



QUALITY

- 24h 100% seal test guaranteed
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Screwdriver slot, the slot orientation shows the ball position

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with metacrylate sealant
- Compact design and solid structure
- Finest brass according to EN 12165 and EN 12164 to prevent corrosion

STEM

- Blowout-proof AISI 316 stainless steel stem
- Maintenance-free, double FPM O-ring at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats

THREADS

- M22X1.5 thread with seat for O-ring seal

HANDLE

- 90° open / close

WORKING PRESSURE & TEMPERATURE

- 20 bar (300 PSI) non-shock cold working pressure
- -20°C to +130°C (-4°F to +266°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- AISI 316 stainless steel ball
- Custom design
- Aluminum body

PED DIRECTIVE

- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)

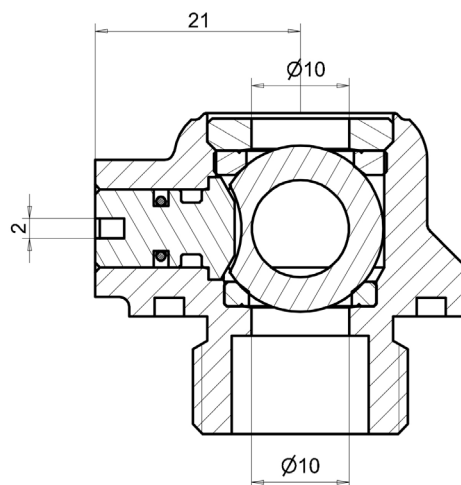
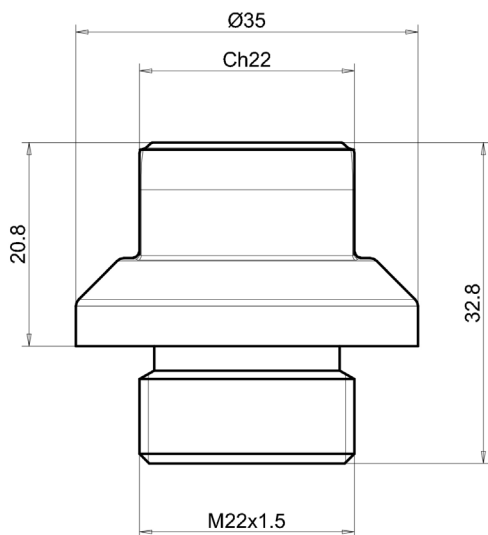
NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Elbow version with hose connection
- Allen stem

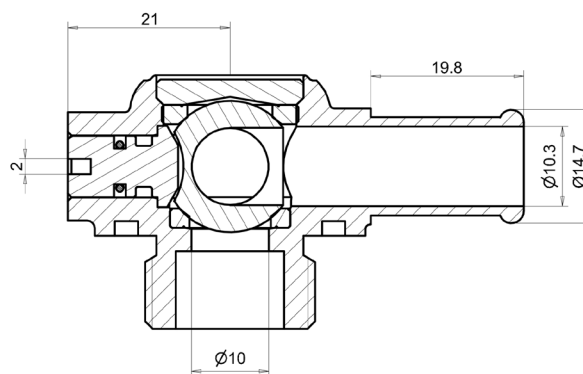
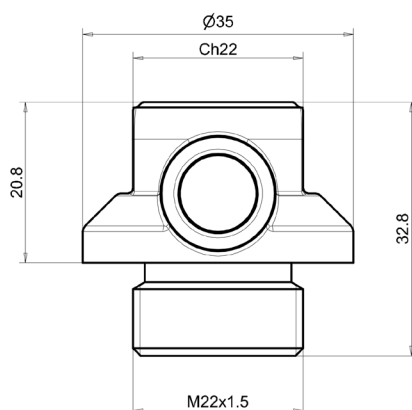


STRAIGHT CONFIGURATION



EXAMPLES OF VALVE DIMENSIONS AND CONFIGURATIONS

ELBOW CONFIGURATION





SNI7352

Female/Female 1/4" NPT needle valve

The new **RuB** needle valve proves the state of the art of RuB innovation capabilities.

This inexpensive valve is designed to ease flow regulation in all applications where drops are counted like gold!

The flow chart on reverse compares the **RuB** linear curve performance with competition and it is obvious how by counting the number of turns, the operator can easily adjust flow.

All details of the **RuB** needle valve have been optimized to provide utmost performance, reliability and no maintenance. Another "install and forget" **RuB** product.



QUALITY

- Innovative design
- No maintenance ever required
- Performance guaranteed
- Tamper proof

BODY

- Hot forged brass body
- One piece body construction

STEM

- FPM stem seal design
- Handle stop on stem prevents stem blow-out

THREADS

- Fip x Fip NPT threads

FLOW

- Easy flow regulation

WORKING PRESSURE & TEMPERATURE

- 2000 PSI non-shock cold working pressure
- -40°F to +350°F
- WARNING: freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- 1/8" NPT threads
- Applications include shut off and throttling for pressure gauges and instruments.

OPTIONS

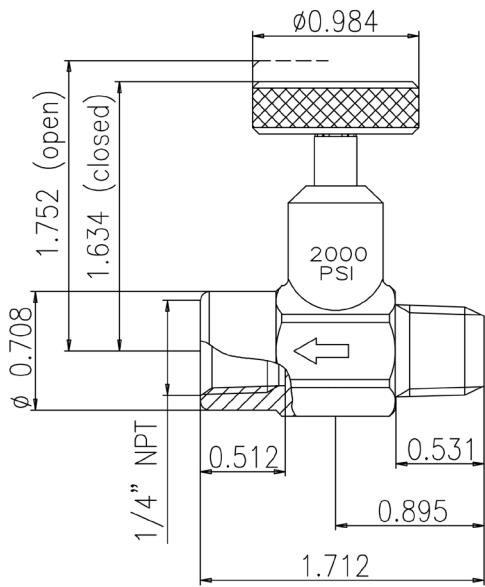
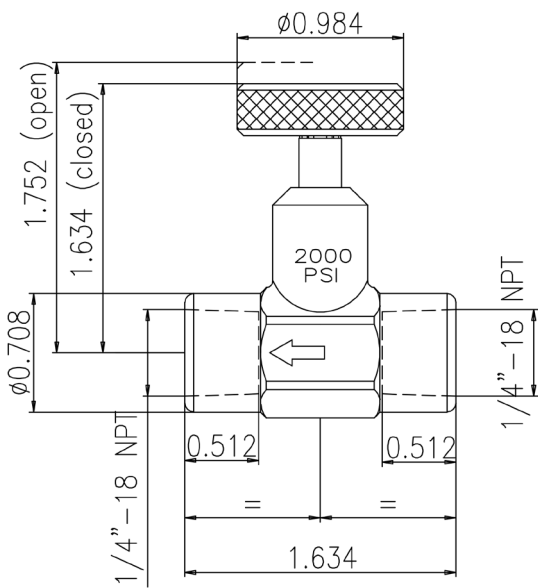
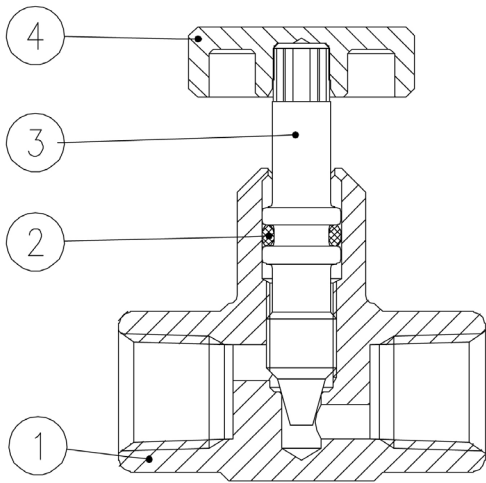
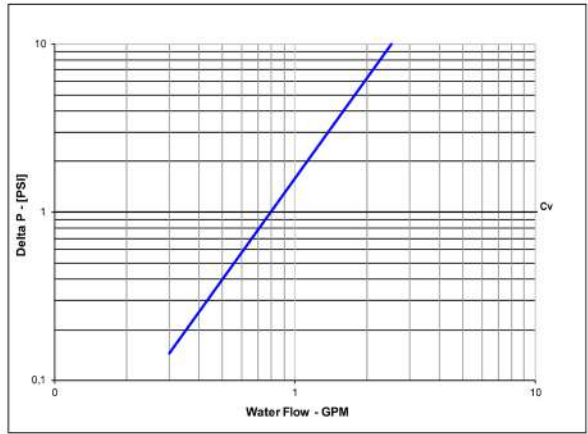
- Mip x Fip NPT threads

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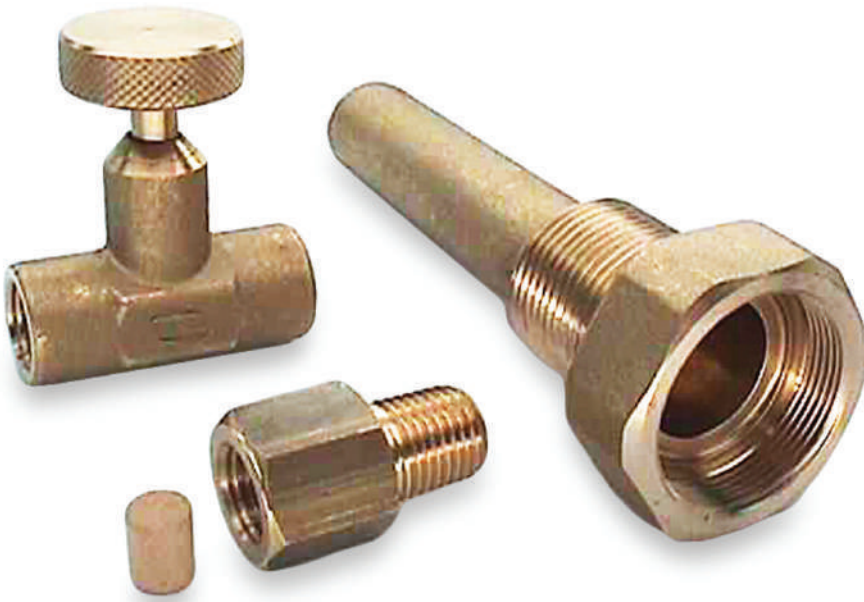
Part description		Q.ty	Material
1	Unplated valve body	1	CW617N
2	O-Ring	1	FPM
3	Retainer	1	CW617N
4	Handwheel	1	CW617N

PRESSURE DROP CHART





Instrumentation package



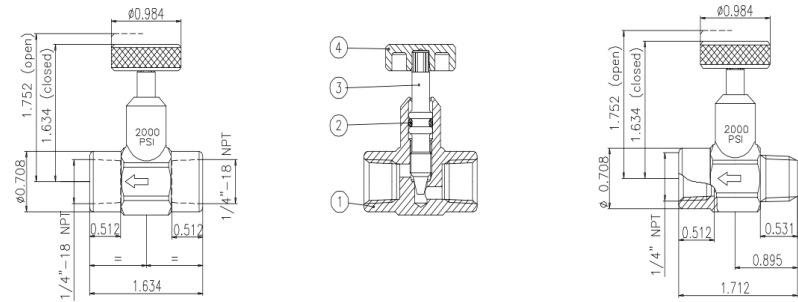
1/4" VALVE (2000 PSI), #SNI7352

1 1/4" THERMOMETER WELL (1000 PSI), #PNI34F2

1/4" SNUBBER (1000 PSI), #SNI8722

INSTRUMENTAL PACKAGE XCEWSN - 5466

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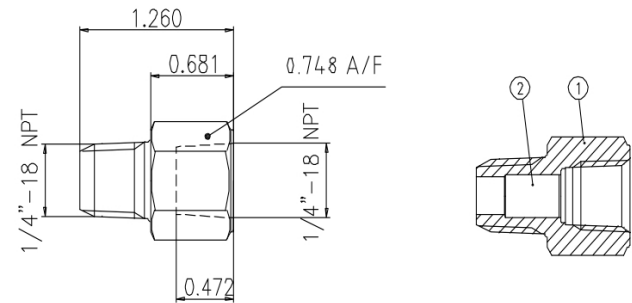


Needle Valve Part description		Q.ty	Material
1	Unplated valve body	1	CW617N
2	O-Ring	1	FPM
3	Retainer	1	CW617N
4	Handwheel	1	CW617N

NEEDLE VALVE:

2000 PSI (CWP)
One piece body construction
Forged brass body
Fip x Fip NPT threads
Temp range -40°F to +350°F
FPM stem seal design

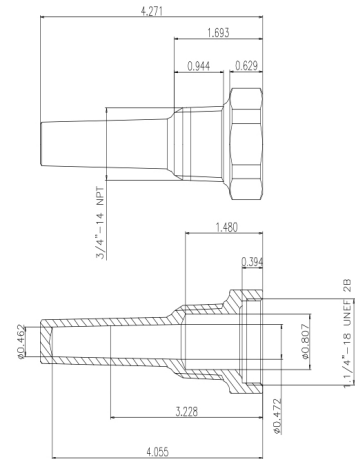
Applications include shut off and throttling for pressure gauges and instruments



Snubber Part description		Q.ty	Material
1	Unplated valve body	1	CW617N
2	Bronze core	1	Bronze

SNUBBER:

1000 PSI (CWP)
Forged brass with bronze core
Temp range -40°F to +350°F
Installed on gauges and instruments where pressure pulsations are present.
The snubber is used to damp the pulsations, giving more stable readings and reducing instrument wear.



Well Part description		Q.ty	Material
1	Unplated valve body	1	CW617N

THERMOMETER WELL:

1000 PSI (CWP)
Forged brass construction
Meets Fed. Spec GG-T-321
Meets SAMA RC-17-10
Installed on gauges and instruments where pressure pulsations are present. The snubber is used to damp the pulsations, giving more stable readings and reducing instrument wear.

PNEUMATIC

RuB solutions for pneumatic applications are engineered to deliver reliable performance ranging from industrial to domestic settings. Designed to control compressed air and inert gases, RuB ball valves ensure efficiency, safety, and precision in fluid management.





s.34 1/8" - 1/2" ISO 228 mini ball valve, suitable for panel mounting	Page 160
s.34 MF 1/8" - 1/2" ISO 228 mini ball valve, suitable for panel mounting	Page 162
s.34 NPT 1/8" - 1/2" mini ball valve, suitable for panel mounting	Page 164
s.35 high pressure 1/8" - 1/2" ISO 228 mini ball valve	Page 166
s.35 NPT high pressure 1/8" - 1/2" mini ball valve	Page 168
s.35 BSPT high pressure 1/8" - 1/2" mini ball valve	Page 170
s.35 BSPT M/F high pressure 1/8" - 1/2" mini ball valve	Page 172
s.39 forged, micro 1/8" - 1/4" ISO 228 high pressure ball valve	Page 174
s.39 NPT forged, micro 1/8" - 1/4" high pressure ball valve	Page 176
s.39 BSPT forged, micro 1/8" - 1/4" high pressure ball valve	Page 178
s.93 downstream exhaust 1/4" - 2" EN 10226-1 with patented locking handle	Page 180
s.93 NPT downstream exhaust 1/4" - 2" with patented locking handle	Page 182
s.93 BSPT downstream exhaust 1/2" - 2" with patented locking handle	Page 184



s.34

**Female/Female
1/8" - 1/2"**

ISO 228 mini ball valve, suitable for panel mounting



QUALITY

- Each valve is seal tested for maximum safety
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life

BODY

- One piece drawn sand blasted brass body incorporating stem neck which provides excellent guidance of the stem
- Finest brass according to EN 12164 specification

STEM

- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel female by female threads

HANDLE

- Lever and T-handle clearly show ball position
- Nylon black lever or T-handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 15 bar (200 PSI) non-shock cold working pressure
- -20°C to +90°C (-4°F to +200°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Screw driver or wrench operated
- Yellow lever or T-handle



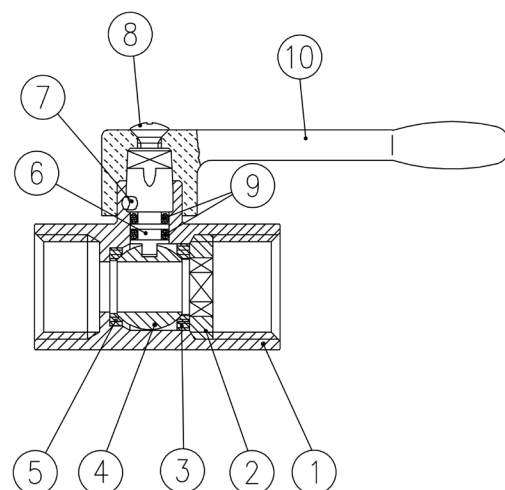
s.34 XCES34 - 5466

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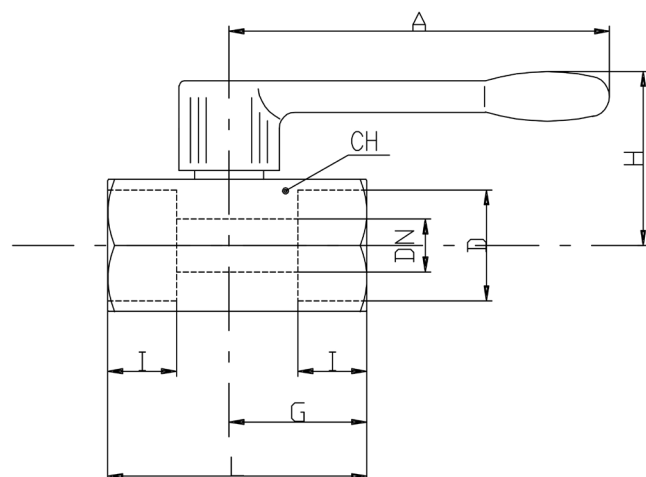


PNEUMATIC

	Part description	Q.ty	Material
1	Chrome plated body	1	CW617N
2	Retainer nut	1	CW617N
3	Retainer seat	1	PTFE
4	Chrome plated ball	1	CW617N
5	Body seat	1	PTFE
6	Unplated stem	1	CW617N
7	Pin	1	1.4301 / AISI304
8	Zinc plated screw	1	C4C (EN10263-2)
9	O-Ring	2	FPM
10	Black handle	1	Nylon glass filled 30%

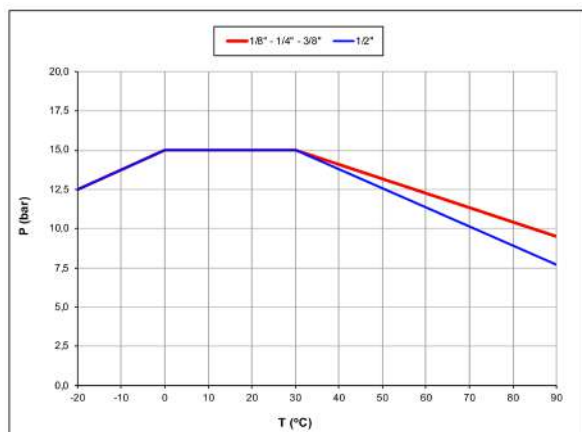


Code	S34AF0	S34BF0	S34CF0	S34DF0
D (inch)	1/8"	1/4"	3/8"	1/2"
DN (mm)	6	8	8	10
I (mm)	10	11	11	13
L (mm)	41.5	41.5	41.5	49
G (mm)	22	22	22	26
A (mm)	72	72	72	72
H (mm)	30.5	30.5	30.5	32.5
CH (mm)	21	21	21	25
Kv (m³/h)	1.7	4.2	3.6	5

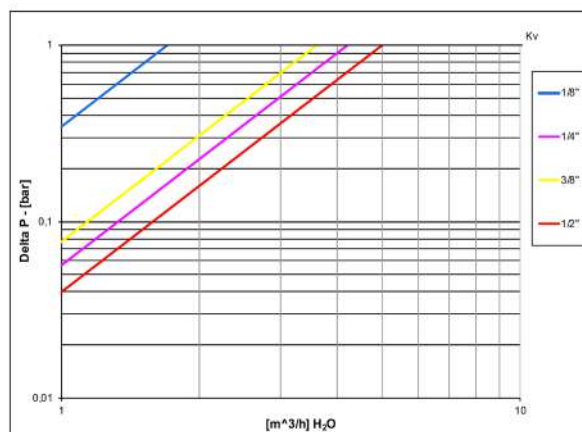


DN shows the nominal flow diameter.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.34 M/F

**Male/Female
1/8" - 1/2"
ISO 228 mini ball valve, suitable for panel mounting**



QUALITY

- Each valve is seal tested for maximum safety
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life

BODY

- One piece drawn sand blasted brass body incorporating stem neck which provides excellent guidance of the stem
- Finest brass according to EN 12164 specification

STEM

- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel male by female threads

HANDLE

- Lever and T-handle clearly show ball position
- Nylon black lever or T-handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 15 bar (200 PSI) non-shock cold working pressure
- -20°C to +90°C (-4°F to +200°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Female by female threads
- Screw driver or wrench operated
- Yellow lever or T-handle



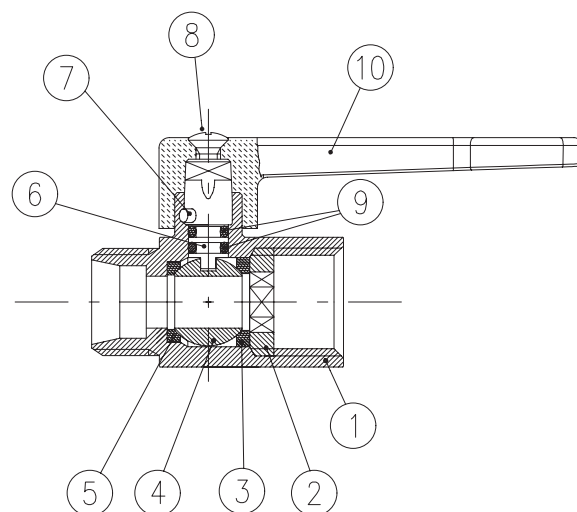
s.34 MF XCES34M - 5466

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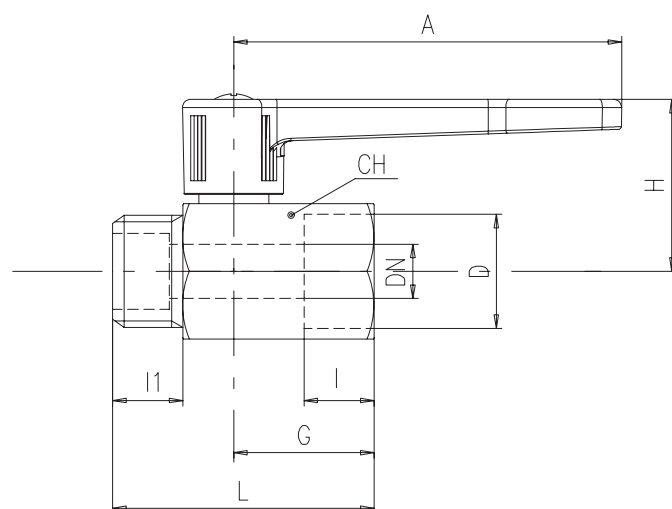


PNEUMATIC

Part description		Q.ty	Material
1	Chrome plated body	1	CW617N
2	Retainer nut	1	CW617N
3	Retainer seat	1	PTFE
4	Chrome plated ball	1	CW617N
5	Body seat	1	PTFE
6	Unplated stem	1	CW617N
7	Pin	1	1.4301 / AISI304
8	Zinc plated screw	1	CB4FF (EN10263-2)
9	O-Ring	2	FPM
10	Black handle	1	Nylon glass filled 30%

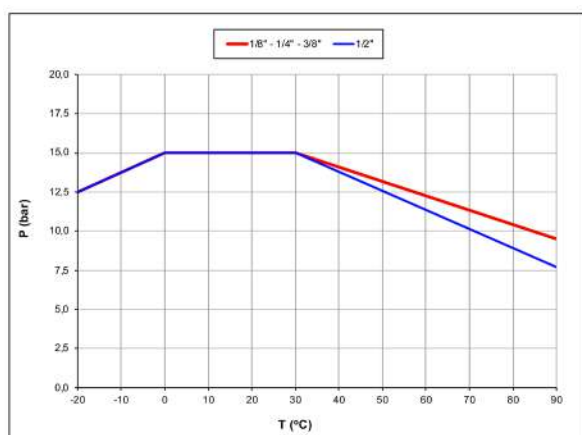


Code	S34AM0	S34BM0	S34CM0	S34DM0
D (inch)	1/8"	1/4"	3/8"	1/2"
DN (mm)	5	8	8	10
I (mm)	10	11	11	13
I 1 (mm)	9.5	9.5	9.5	13
L (mm)	41.5	41.5	41.5	49
G (mm)	22	22	22	26
A (mm)	72	72	72	72
H (mm)	30.5	30.5	30.5	32.5
CH (mm)	21	21	21	25
Kv (m³/h)	1.7	4.2	3.6	5

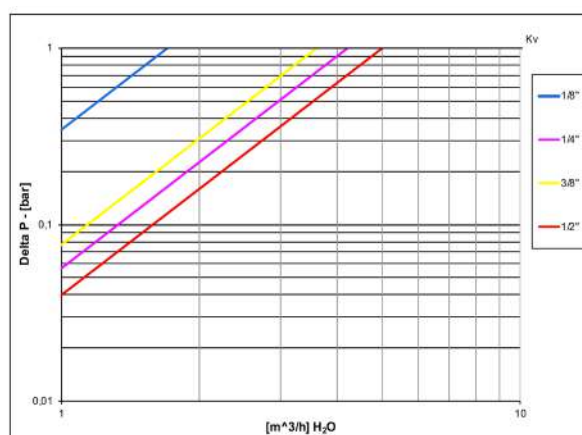


DN shows the nominal flow diameter.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.34 NPT

**Female/Female
1/8" - 1/2"
mini ball valve, suitable for panel mounting**



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life

BODY

- One piece drawn sand blasted brass body incorporating stem neck which provides excellent guidance of the stem
- Finest brass according to EN 12164 specification

STEM

- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

HANDLE

- Lever and T-handle clearly show ball position
- Nylon black lever or T-handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 200 PSI (15 bar) non-shock cold working pressure
- -4°F to +200°F (-20°C to +90°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Male by female threads
- Screw driver or wrench operated
- Yellow lever or T-handle



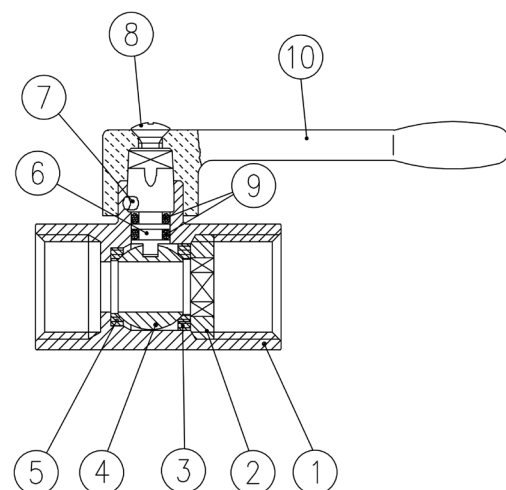
s.34 NPT XCES34N - 5466

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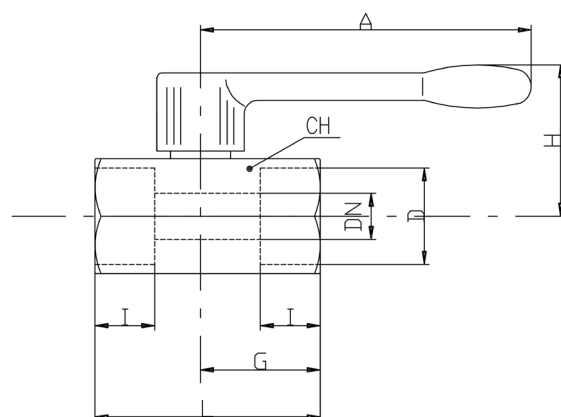


PNEUMATIC

	Part description	Q.ty	Material
1	Chrome plated body	1	CW617N
2	Retainer nut	1	CW617N
3	Retainer seat	1	PTFE
4	Chrome plated ball	1	CW617N
5	Body seat	1	PTFE
6	Unplated stem	1	CW617N
7	Pin	1	1.4301 / AISI304
8	Zinc plated screw	1	C4C
9	O-Ring	2	FPM
10	Black handle	1	Nylon glass filled 30%

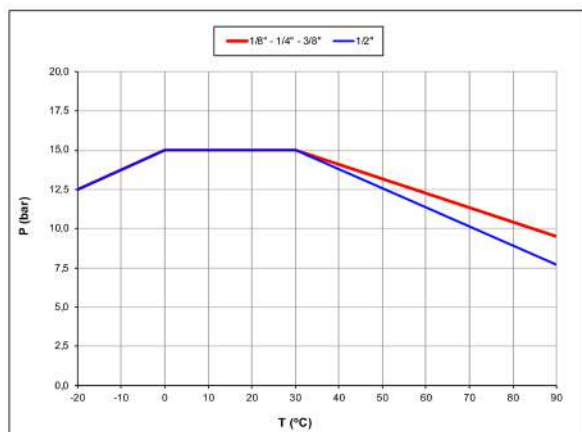


Code	S34AX0	S34BX0	S34CX0	S34DX0
D (inch)	1/8"	1/4"	3/8"	1/2"
DN (inch)	0.236	0.314	0.314	0.393
I (inch)	0.354	0.472	0.472	0.610
L (inch)	1.712	1.712	1.712	2.106
G (inch)	0.905	0.905	0.905	1.102
A (inch)	2.834	2.834	2.834	2.834
H (inch)	1.200	1.200	1.200	1.279
CH (inch)	0.826	0.826	0.826	0.984
Cv (GPM)	2.0	4.9	4.2	5.8

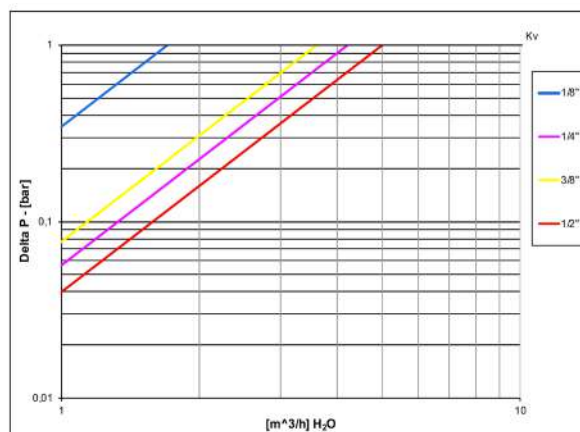


DN shows the nominal flow diameter.

PRESSURE-TEMPERATURE CHART



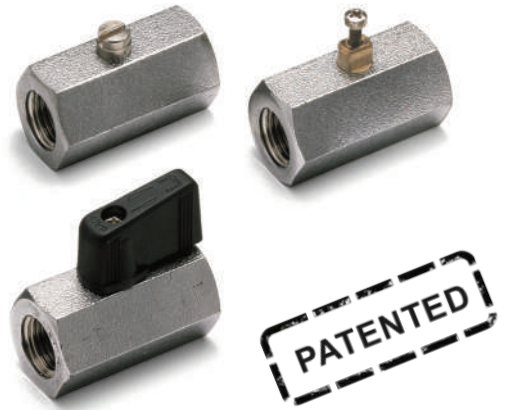
PRESSURE DROP CHART





S.35 high pressure

Female/Female
1/8" - 1/2"
ISO 228 mini ball valve



QUALITY

- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Handle/ stem clearly shows ball position

BODY

- One piece drawn sand blasted brass body with extremely compact design
- Finest brass according to EN 12164 specification
- Patent n. 7011-B/89

STEM

- Blowout-proof brass stem with FPM O-ring
- Maintenance-free thanks to FPM O-ring at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel female by female threads

HANDLE

- Reinforced nylon black wedge handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 bar (450 PSI) non-shock cold working pressure
- -20°C to +90°C (-4°F to +200°F)
- +120°C (+250°F) screw driver version and metal wedge handle
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Aluminum body
- ISO 7/1 BSPT taper threads
- Dezincification resistant brass CW602N

PED DIRECTIVE

- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Male by female threads
- Screw driver or wrench operated
- Nylon wedge handle yellow, red or green
- Metal wedge handle available in colours red, black, yellow, green, light blue, chrome plated
- Grey wedge handle in Grivory® -high performing polymer
- Additional connection options on demand



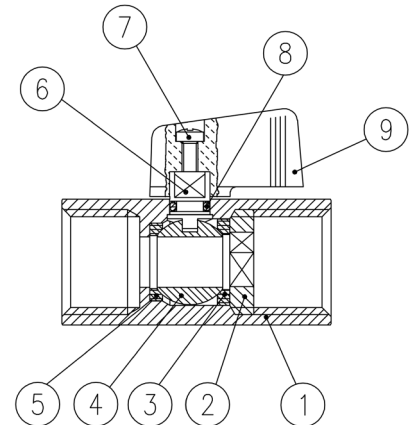
s.35 XCES35 - 5466

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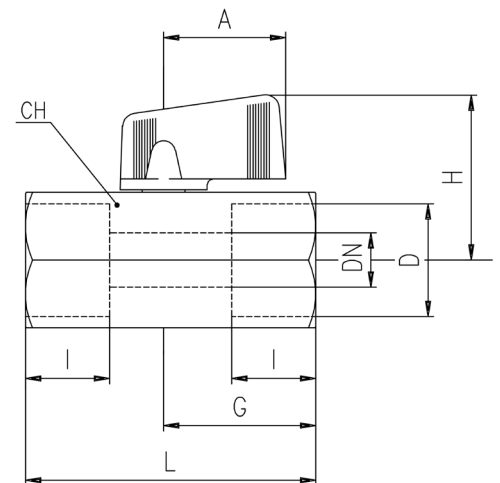


PNEUMATIC

	Part description	Q.ty	Material
1	Chrome plated body	1	CW617N
2	Retainer nut	1	CW617N
3	Retainer seat	1	PTFE
4	Chrome plated ball	1	CW617N
5	Body seat	1	PTFE
6	Unplated stem	1	CW617N
7	Zinc plated screw	1	CB4FF (EN10263-2)
8	O-Ring	1	FPM
9	Black handle	1	Nylon glass filled 30%

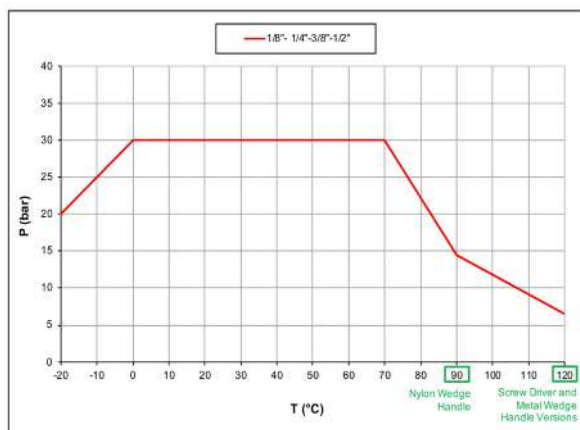


Code	S35AF0	S35BF0	S35CF0	S35DF0
D (inch)	1/8"	1/4"	3/8"	1/2"
DN (mm)	6	8	8	10
I (mm)	10	11	11	13
L (mm)	41.5	41.5	41.5	49
G (mm)	22	22	22	26
A (mm)	22.5	22.5	22.5	22.5
H (mm)	31	31	31	33
CH (mm)	21	21	21	25
Kv (m³/h)	1.7	4.2	3.6	5

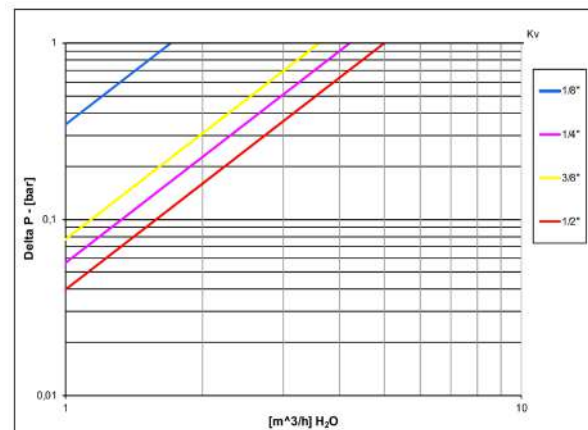


DN shows the nominal flow diameter.

PRESSURE-TEMPERATURE CHART



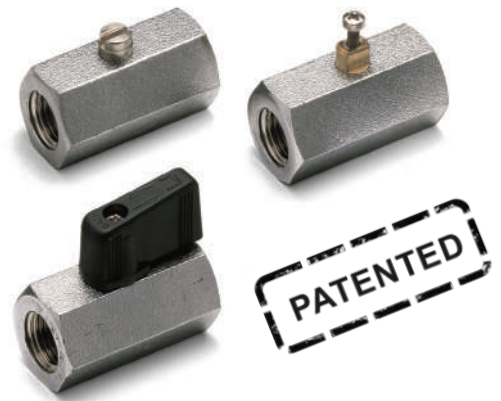
PRESSURE DROP CHART





s.35 NPT high pressure

**Female/Female
1/8" - 1/2"
mini ball valve**



QUALITY

- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Handle/ stem clearly shows ball position

BODY

- One piece drawn sand blasted brass body with extremely compact design
- Finest brass according to EN 12164 specification
- Patent n. 7011-B/89

STEM

- Blowout-proof brass stem with FPM O-ring
- Maintenance-free thanks to FPM O-ring at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 threads

HANDLE

- Reinforced nylon black wedge handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 450 PSI (30 bar) non-shock cold working pressure
- -4°F to +200°F (-20°C to +90°C)
- +250°F (+120°C) screw driver version and metal wedge handle
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Aluminum body
- ISO 7/1 BSPT taper threads
- Dezincification resistant brass CW602N

PED DIRECTIVE

- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Male by female threads
- Screw driver or wrench operated
- Nylon wedge handle yellow, red or green
- Metal wedge handle available in colours red, black, yellow, green, light blue, chrome plated
- Grey wedge handle in Grivory® -high performing polymer
- Additional connection options on demand

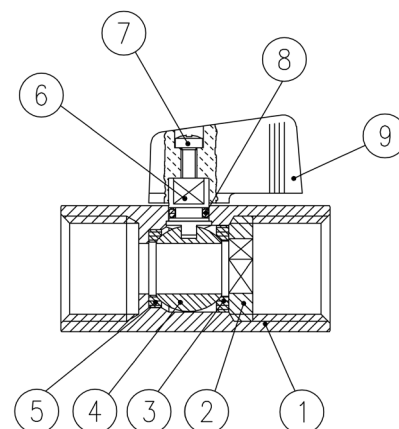


s.35 NPT XCES35 - 5466

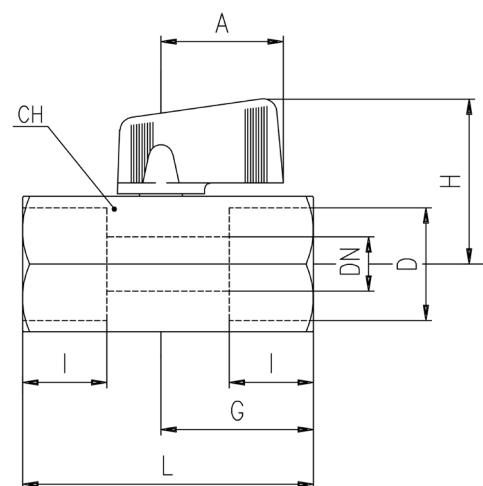
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	Part description	Q.ty	Material
1	Chrome plated body	1	CW617N
2	Retainer nut	1	CW617N
3	Retainer seat	1	PTFE
4	Chrome plated ball	1	CW617N
5	Body seat	1	PTFE
6	Unplated stem	1	CW617N
7	Zinc plated screw	1	CB4FF (EN10263-2)
8	O-Ring	1	FPM
9	Black handle	1	Nylon glass filled 30%

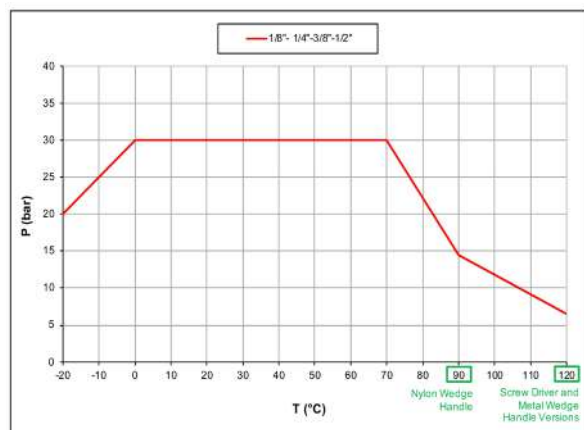


Code	S35AX0	S35BX0	S35CX0	S35DX0
D (inch)	1/8"	1/4"	3/8"	1/2"
DN (inch)	0.236	0.314	0.314	0.393
I (inch)	0.354	0.472	0.472	0.610
L (inch)	1.712	1.712	1.712	2.106
G (inch)	0.905	0.905	0.905	1.102
A (inch)	0.885	0.885	0.885	0.885
H (inch)	1.220	1.220	1.220	1.299
CH (inch)	0.826	0.826	0.826	0.984
Cv (GPM)	2.0	4.9	4.2	5.8

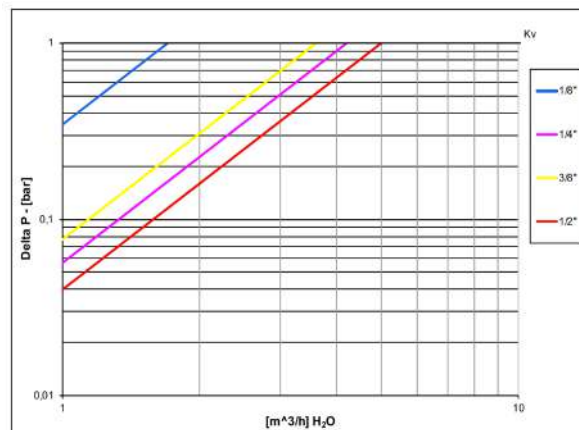


DN shows the nominal flow diameter.

PRESSURE-TEMPERATURE CHART



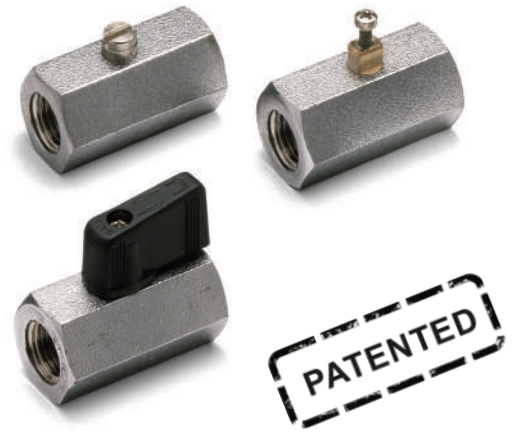
PRESSURE DROP CHART





s.35 BSPT high pressure

Female/Female
1/8" - 1/2"
ISO 228 mini ball valve



QUALITY

- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Handle/ stem clearly shows ball position

BODY

- One piece drawn sand blasted brass body with extremely compact design
- Finest brass according to EN 12164 specification
- Patent n. 7011-B/89

STEM

- Blowout-proof brass stem with FPM O-ring
- Maintenance-free thanks to FPM O-ring at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 7/1 BSPT taper threads

HANDLE

- Reinforced nylon black wedge handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 bar (450 PSI) non-shock cold working pressure
- -20°C to +90°C (-4°F to +200°F)
- +120°C (+250°F) screw driver version and metal wedge handle
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Aluminum body
- Dezincification resistant brass CW602N

PED DIRECTIVE

- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Male by female threads
- Screw driver or wrench operated
- Nylon wedge handle yellow, red or green
- Metal wedge handle available in colours red, black, yellow, green, light blue, chrome plated
- Grey wedge handle in Grivory® -high performing polymer
- Additional connection options on demand



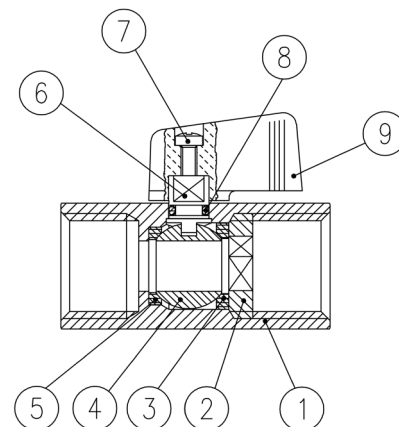
s.35 BSPT XCES35B - 5466

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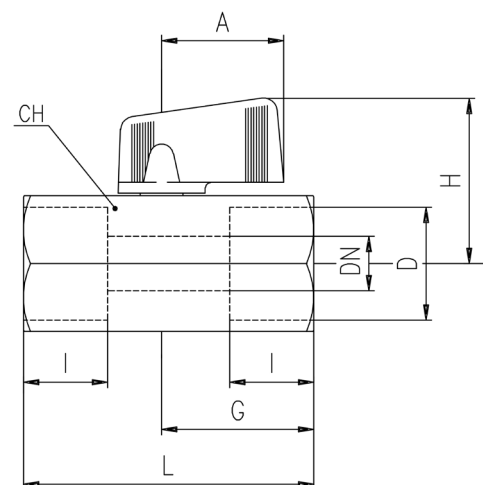


PNEUMATIC

	Part description	Q.ty	Material
1	Chrome plated body	1	CW617N
2	Retainer nut	1	CW617N
3	Retainer seat	1	PTFE
4	Chrome plated ball	1	CW617N
5	Body seat	1	PTFE
6	Unplated stem	1	CW617N
7	Zinc plated screw	1	C10C (EN10263-2)
8	O-Ring	1	FPM
9	Black handle	1	Nylon glass filled 30%

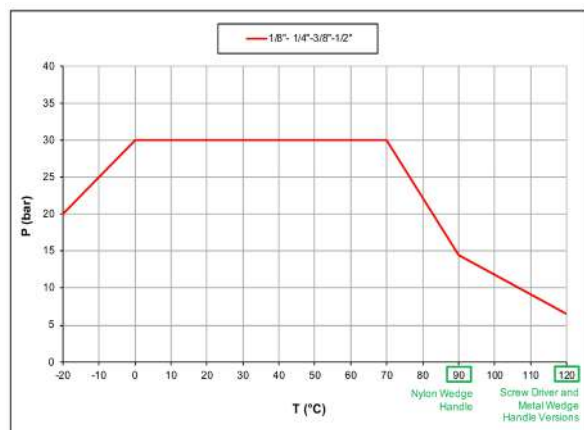


Code	S35AW0	S35BW0	S35CW0	S35DW0
D (inch)	1/8"	1/4"	3/8"	1/2"
DN (mm)	6	8	8	10
I (mm)	11	12	12	15.5
L (mm)	43.5	43.5	43.5	53.5
G (mm)	23	23	23	28
A (mm)	22.5	22.5	22.5	22.5
H (mm)	31	31	31	33
CH (mm)	21	21	21	25
Kv (m³/h)	1.7	4.2	3.6	5

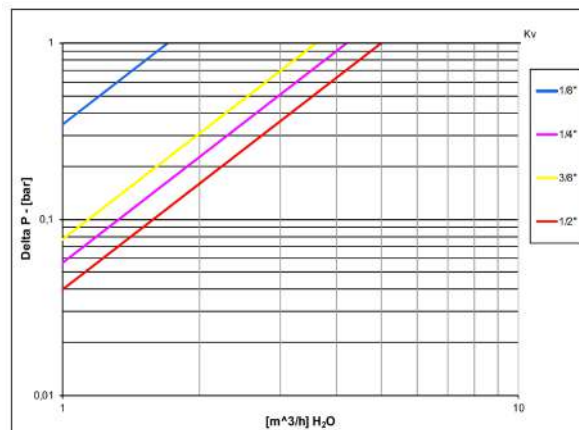


DN shows the nominal flow diameter.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.35 BSPT M/F high pressure

1/8" - 1/2"
mini ball valve



QUALITY

- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Handle/ stem clearly shows ball position

BODY

- One piece drawn sand blasted brass body with extremely compact design
- Finest brass according to EN 12164 specification
- Patent n. 7011-B/89

STEM

- Blowout-proof brass stem with FPM O-ring

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO7/1, BS 21 taper female by female threads

HANDLE

- Reinforced nylon black wedge handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 bar (450 PSI) non-shock cold working pressure
- -20°C to +90°C (-4°F to +200°F)
- +120°C (+250°F) screw driver version and metal wedge handle
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Aluminum body
- Dezincification resistant brass CW602N

PED DIRECTIVE

- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Screw driver or wrench operated
- Nylon wedge handle yellow, red or green
- Metal wedge handle available in colours red, black, yellow, green, light blue, chrome plated
- Grey wedge handle in Grivory® -high performing polymer

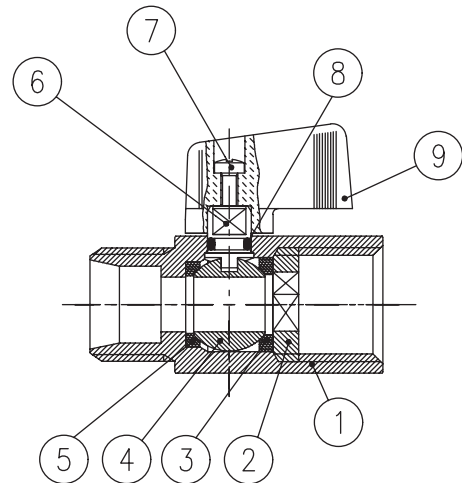


s.35 MF BSPT XCES35MB - 5466

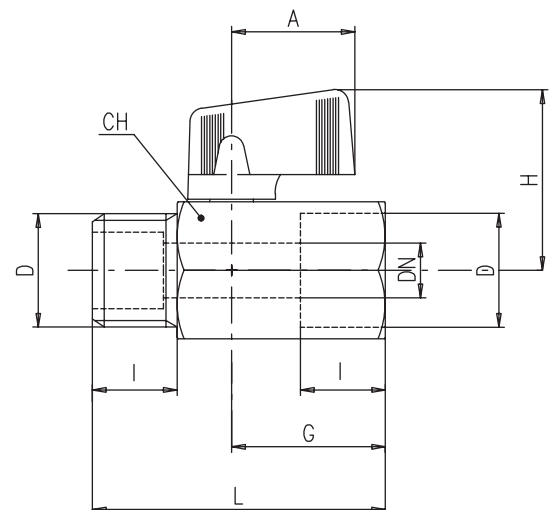
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	Part description	Q.ty	Material
1	Chrome plated body	1	CW617N
2	Retainer nut	1	CW617N
3	Retainer seat	1	PTFE
4	Chrome plated ball	1	CW617N
5	Body seat	1	PTFE
6	Unplated stem	1	CW617N
7	Zinc plated screw	1	C10C (EN10263-2)
8	O-Ring	1	FPM
9	Black handle	1	Nylon glass filled 30%

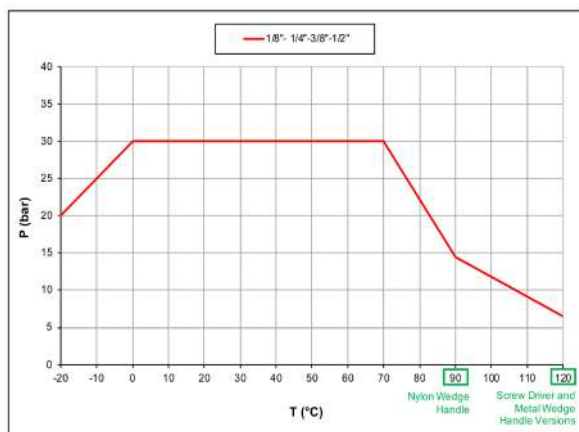


Code	S35AJ0	S35BJ0	S35CJ0	S35DJ0
D (inch)	1/8"	1/4"	3/8"	1/2"
DN (mm)	5	8	8	10
I (mm)	11	12	12	15.5
L (mm)	43.5	43.5	43.5	53.5
G (mm)	23	23	23	28
A (mm)	22.5	22.5	22.5	22.5
H (mm)	31	31	31	33
CH (mm)	21	21	21	25
Kv (m³/h)	1.7	4.2	3.6	5

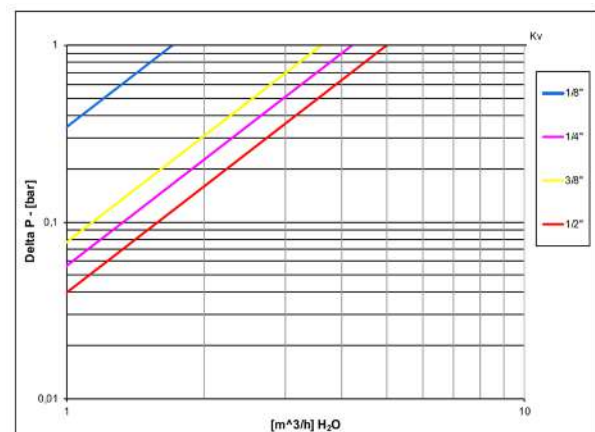


DN shows the nominal flow diameter.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





S.39 forged, micro

Female/Female

1/8" - 1/4"

ISO 228, high pressure ball valve



QUALITY

- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Handle stops on body to avoid stresses at stem
- Handle / stem clearly shows ball position

BODY

- Hot forged sand blasted brass body
- Finest brass according to EN 12165 specification

STEM

- Blowout-proof brass stem
- Maintenance-free, double FPM O-ring at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel female by female threads

HANDLE

- Reinforced nylon black wedge handle
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 60 bar (900 PSI) non-shock cold working pressure
- -20°C to +90°C (-4°F to +200°F)
- +120°C (+250°F) metal wedge handle (mini configuration only)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- ISO 7/1 BSPT taper threads
- Other brass alloys or aluminum
- Additional connection options

PED DIRECTIVE

- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Male by female threads
- Nylon wedge handle yellow, red or blue



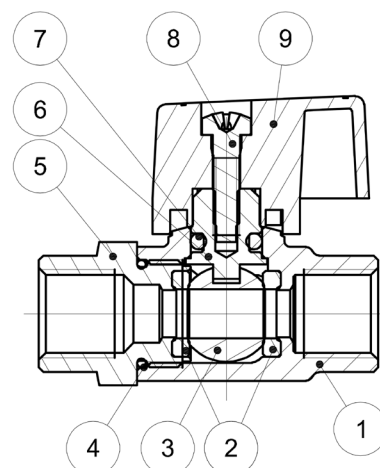
s.39 XCES39 - 5466

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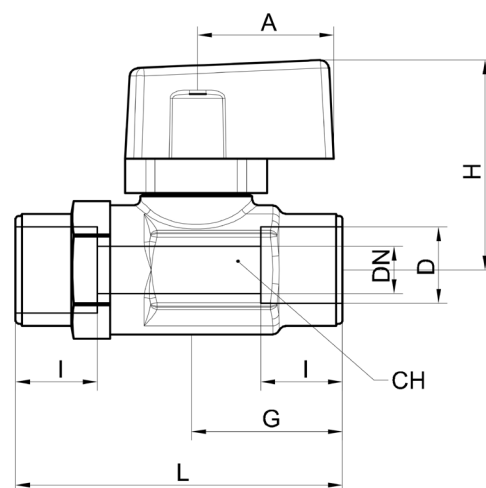


PNEUMATIC

	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Ball seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	O-Ring	1	HNBR
5	Nickel plated end cap (external nickel plated, unplated inside)	1	CW617N
6	Unplated stem	1	CW617N
7	O-Ring	1	FPM
8	Zinc plated screw	1	C10C (EN10263-2)
9	Black handle	1	Nylon glass filled 30%

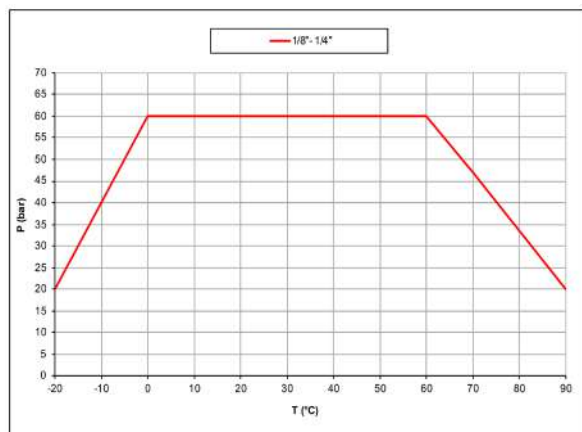


Code	S39AF0M	S39BF0M
D (inch)	1/8"	1/4"
DN (mm)	5.3	5.3
I (mm)	9.5	11
L (mm)	38	43
G (mm)	17	20
A (mm)	16	16
H (mm)	24.4	24.7
CH (mm)	15	15
Kv (m³/h)	1.2	1.2

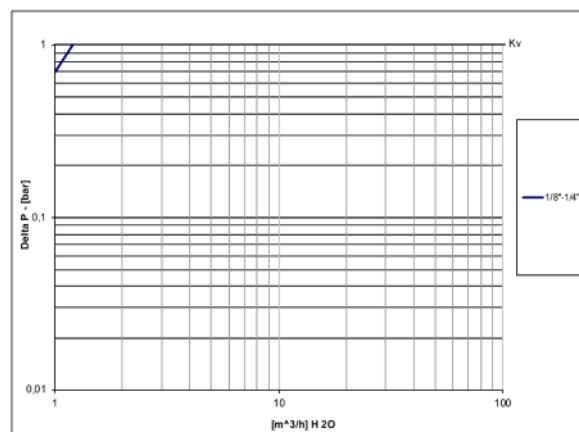


DN shows the nominal flow diameter.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.39 NPT forged, micro

**Female/Female
1/8" - 1/4"
high pressure ball valve**



QUALITY

- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Handle stops on body to avoid stresses at stem
- Handle / stem clearly shows ball position

BODY

- Hot forged sand blasted brass body
- Finest brass according to EN 12165 specification

STEM

- Blowout-proof brass stem
- Maintenance-free, double FPM O-ring at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 threads | ISO 228 parallel female by female threads

HANDLE

- Reinforced nylon black wedge handle
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Handle removable with valve in service

OPTIONS

- Male by female threads
- Nylon wedge handle yellow, red or blue

WORKING PRESSURE & TEMPERATURE

- 900 PSI (60 bar) non-shock cold working pressure
- -4°F to +200°F (-20°C to +90°C)
- +250°F (+120°C) metal wedge handle (mini configuration only)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- ISO 7/1 BSPT taper threads
- Other brass alloys or aluminum
- Additional connection options

PED DIRECTIVE

- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.



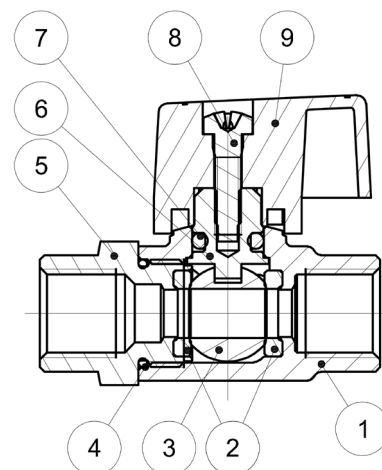
s.39 NPT XCES39N - 5466

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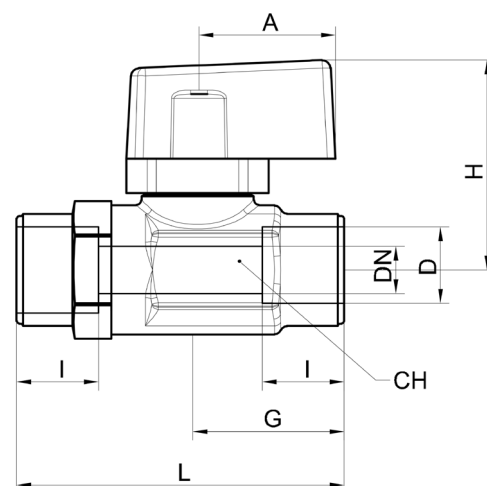


PNEUMATIC

	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Ball seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	O-Ring	1	HNBR
5	Nickel plated end cap (external nickel plated, unplated inside)	1	CW617N
6	Unplated stem	1	CW617N
7	O-Ring	1	FPM
8	Zinc plated screw	1	C10C (EN10263-2)
9	Black handle	1	Nylon glass filled 30%

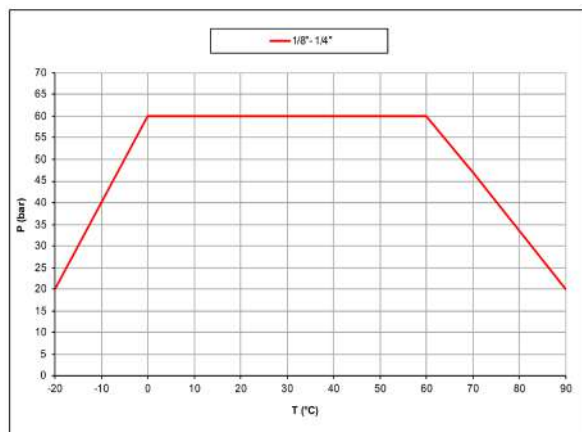


Code	S39AX0M	S39BX0M
D (inch)	1/8"	1/4"
DN (inch)	0.209	0.209
I (inch)	0.374	0.472
L (inch)	1.496	1.732
G (inch)	0.669	0.787
A (inch)	0.630	0.630
H (inch)	0.965	0.965
CH (inch)	0.591	0.591
Cv (GPM)	1.4	1.4

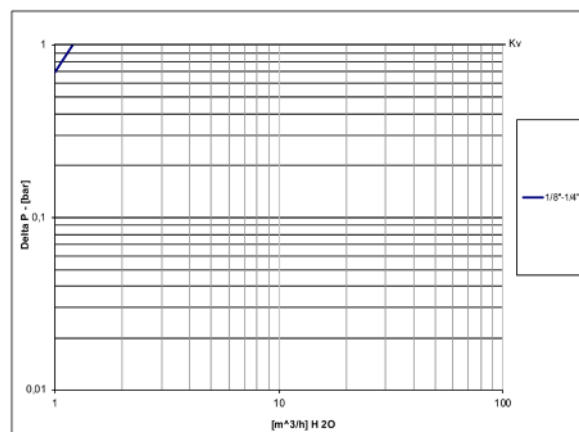


DN shows the nominal flow diameter.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.39 BSPT forged, micro

Female/Female

1/8" - 1/4"

ISO 228, high pressure ball valve



QUALITY

- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Handle stops on body to avoid stresses at stem
- Handle / stem clearly shows ball position

BODY

- Hot forged sand blasted brass body
- Finest brass according to EN 12165 specification

STEM

- Blowout-proof brass stem
- Maintenance-free, double FPM O-ring at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 7/1 BSPT taper threads

HANDLE

- Reinforced nylon black wedge handle
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 60 bar (900 PSI) non-shock cold working pressure
- -20°C to +90°C (-4°F to +200°F)
- +120°C (+250°F) metal wedge handle (mini configuration only)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Other brass alloys or aluminum
- Additional connection options

PED DIRECTIVE

- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Male by female threads
- Nylon wedge handle yellow, red or blue

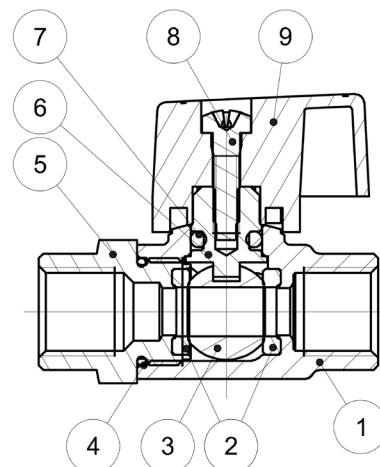


s.39 BSPT XGES39B - 5466

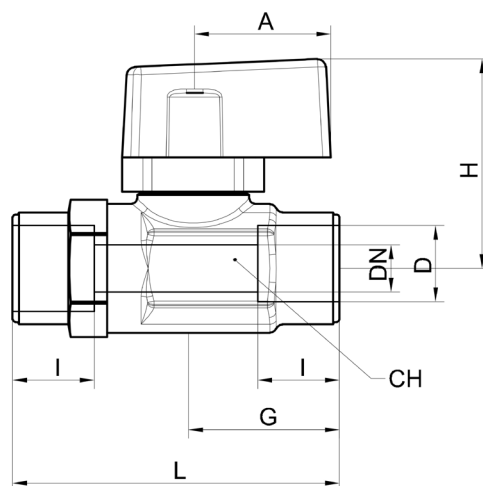
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	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Ball seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	O-Ring	1	HNBR
5	Nickel plated end cap (external nickel plated, unplated inside)	1	CW617N
6	Unplated stem	1	CW617N
7	O-Ring	1	FPM
8	Zinc plated screw	1	C10C (EN10263-2)
9	Black handle	1	Nylon glass filled 30%

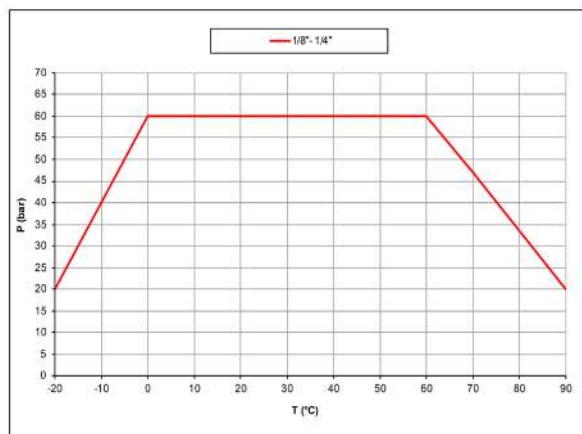


Code	S39AW0M	S39BW0M
D (inch)	1/8"	1/4"
DN (mm)	5.3	5.3
I (mm)	9.5	12
L (mm)	38	44
G (mm)	17	20
A (mm)	16	16
H (mm)	24.4	24.4
CH (mm)	15	15
Kv (m³/h)	1.2	1.2

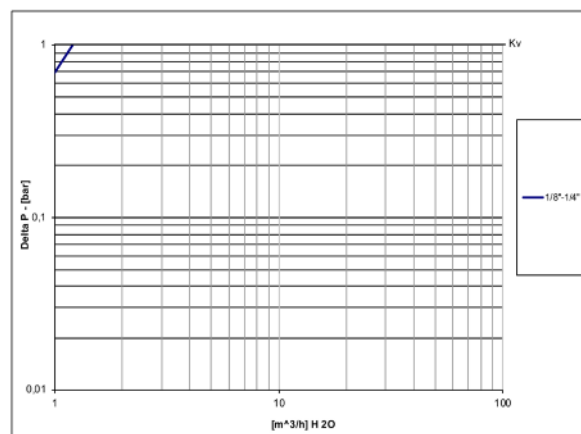


DN shows the nominal flow diameter.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.93 downstream exhaust

**Female/Female
1/4" - 2"**

EN 10226-1, with patented locking handle

Featuring patented tamper-proof lockable handle that has no equal in the market.

RuB s.93 range exhausts automatically and continuously downstream air pressure as soon as turned in the closed position.

Valve is lockable in the closed position only, according to Part. 1910.147 safety OSHA (USA) requirements allowing safe maintenance of the air-supplied equipment; when valve is open, one simple 90° turn of the handle shuts flow immediately.

We care for those you care for.



QUALITY

- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent threads sealant
- The valve body includes a tapped downstream depressurization venting outlet to direct exhaust air or assemble mufflers for noise control
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Molybdenum filled PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

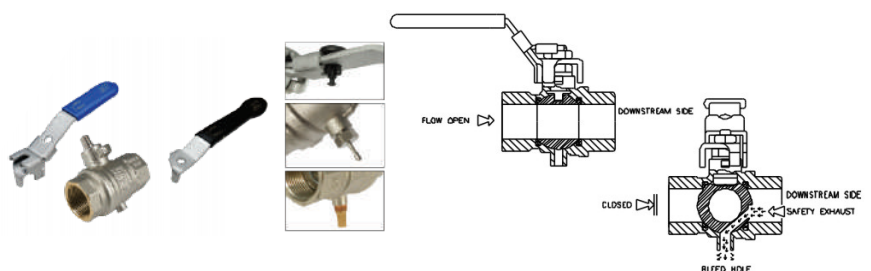
- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel lockable handle patent n. 7074-B/90 with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service

OPTIONS

- Stainless steel handle (1.4016 / AISI 430)
- Non-locking Geomet® carbon steel lever handle
- Safety pin
- Muffler, hose



WORKING PRESSURE & TEMPERATURE

- 14 bar (200 PSI) non-shock cold working pressure
- -10°C to +100°C (+15°F to +210°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Custom design
- T-handle

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25 mm

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- RoHS Compliant (EU)
- OSHA Compliant (United States)

NOTE: approvals apply to specific configurations/sizes only.

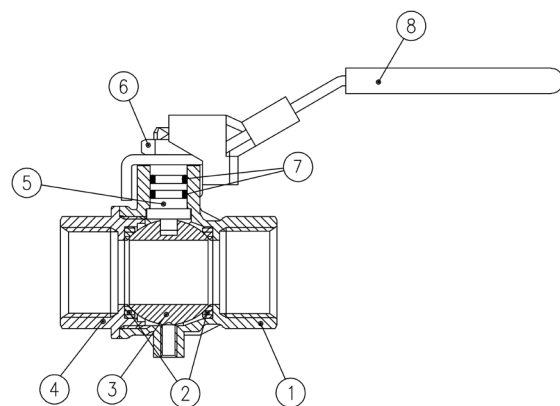
s.93 XCES93 - 5466

Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.

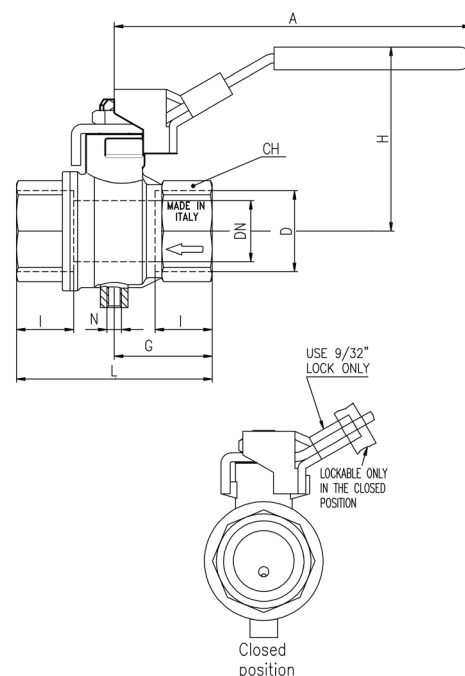


PNEUMATIC

	Part description	Q.ty	Material
1	Nickel plated body (external treatment)	1	CW617N
2	Seat	2	PTFE molybdenum filled
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external treatment)	1	CW617N
5	Nickel plated stem O-Ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Light blue PVC coated Geomet® steel lockable handle	1	DD11 (EN10111)

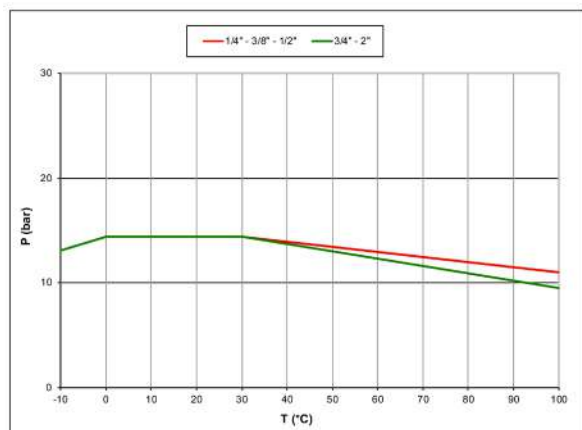


Code	S93B00	S93C00	S93D00	S93E00	S93F00	S93G00	S93H00	S93I00
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	12	12	15.5	17	21	23	23	26.5
L (mm)	45	45	59	64	81	93	102	121
G (mm)	22.5	22.5	29.5	32	40.5	46.5	51	60.5
A (mm)	96	96	96	117	117	156.5	156.5	156.5
H (mm)	46	46	51	59	63	77	83	90
CH (mm)	17	20	25	31	40	49	54	68.5
N	M5					G 1/4"		
Kv (m3/h)	3.9	8.2	28	42	70	110	186	256

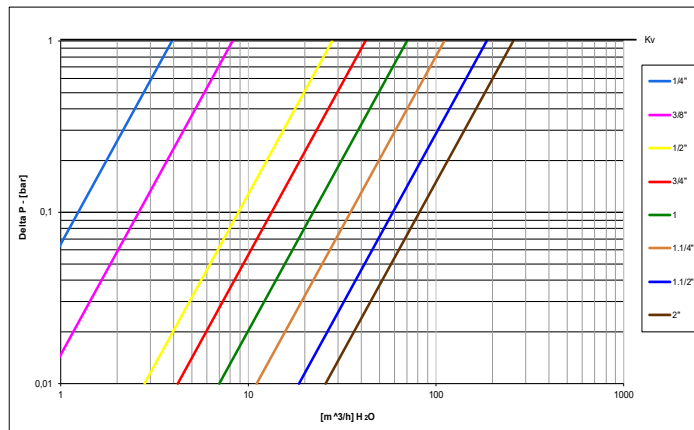


DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.93 NPT downstream exhaust

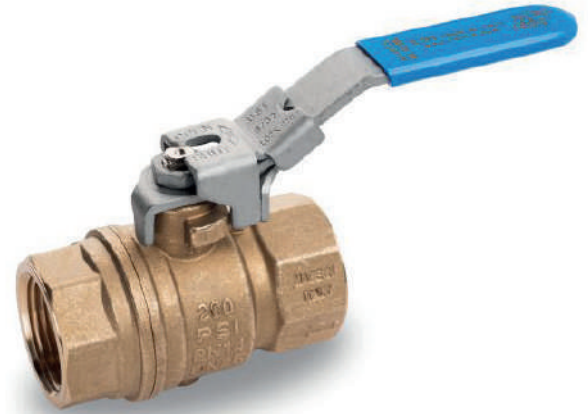
**Female/Female
1/4" - 2"
with patented locking handle**

Featuring patented tamper-proof lockable handle that has no equal in the market.

RuB s.93 range exhausts automatically and continuously downstream air pressure as soon as turned in the closed position.

Valve is lockable in the closed position only, according to Part. 1910.147 safety OSHA (USA) requirements allowing safe maintenance of the air-supplied equipment; when valve is open, one simple 90° turn of the handle shuts flow immediately.

We care for those you care for.



QUALITY

- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent threads sealant
- The valve body includes a tapped downstream depressurization venting outlet to direct exhaust air or assemble mufflers for noise control
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Molybdenum filled PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel lockable handle patent n. 7074-B/90 with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 200 PSI (14 bar) non-shock cold working pressure
- +15°F to +210°F (-10°C to +100°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Custom design
- T-handle

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25 mm

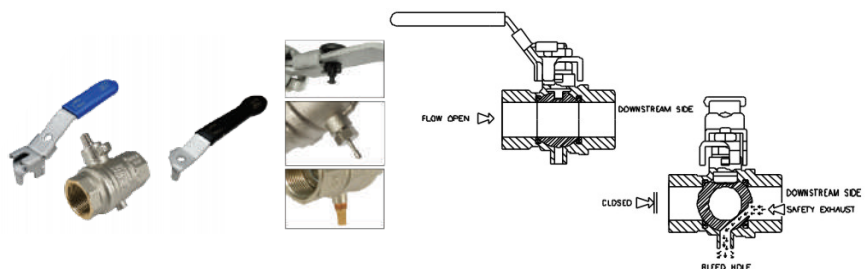
APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)
- OSHA Compliant (United States)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Stainless steel handle (1.4016 / AISI 430)
- Non-locking Geomet® carbon steel lever handle
- Safety pin
- Muffler, hose



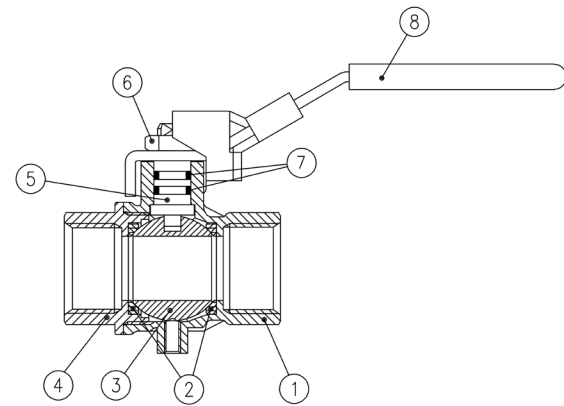
s.93 NPT XCES93N - 5466

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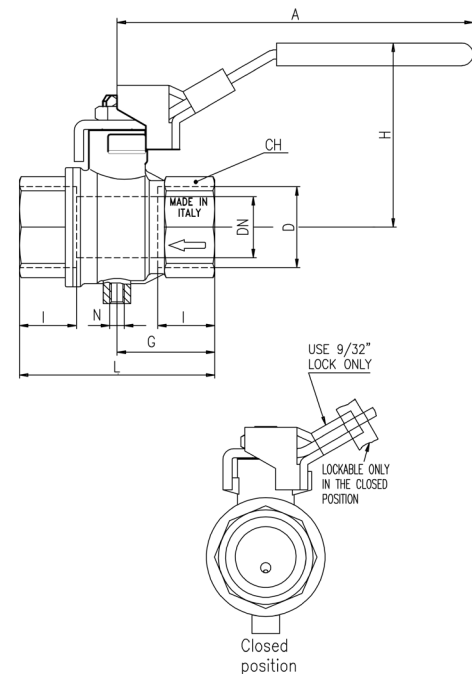


PNEUMATIC

	Part description	Q.ty	Material
1	Unplated body	1	CW617N
2	Seat	2	PTFE molybdenum filled
3	Chrome plated ball	1	CW617N
4	Unplated end-cap	1	CW617N
5	Nickel plated stem O-Ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Light blue PVC coated Geomet® steel lockable handle	1	DD11 (EN10111)

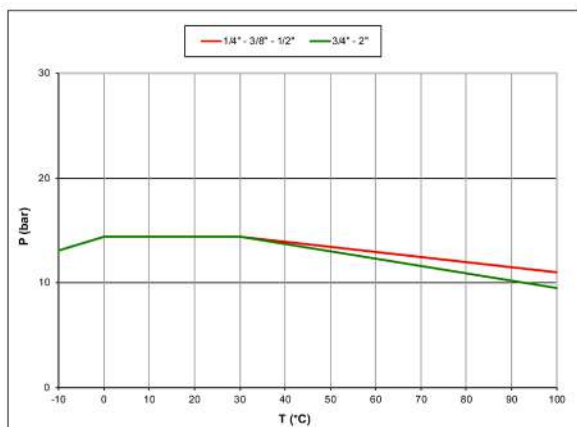


Code	S93B41	S93C41	S93D41	S93E41	S93F41	S93G41	S93H41	S93I41
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (inch)	0.315	0.374	0.591	0.787	0.945	1.181	1.496	1.890
I (inch)	0.472	0.472	0.610	0.669	0.827	0.906	0.906	1.043
L (inch)	1.772	1.772	2.323	2.520	3.189	3.661	4.016	4.764
G (inch)	0.886	0.886	1.161	1.259	1.594	1.831	2.008	2.382
A (inch)	3.779	3.779	3.759	4.606	4.606	6.161	6.161	6.161
H (inch)	1.823	1.823	1.998	2.333	2.490	3.018	3.254	3.530
CH (inch)	0.669	0.787	0.984	1.220	1.575	1.929	2.126	2.697
N	10-32 UNF					1/4" NPT		
CV (GPM)	4.5	9.5	32.3	48.5	80.9	127.1	214.9	295.8

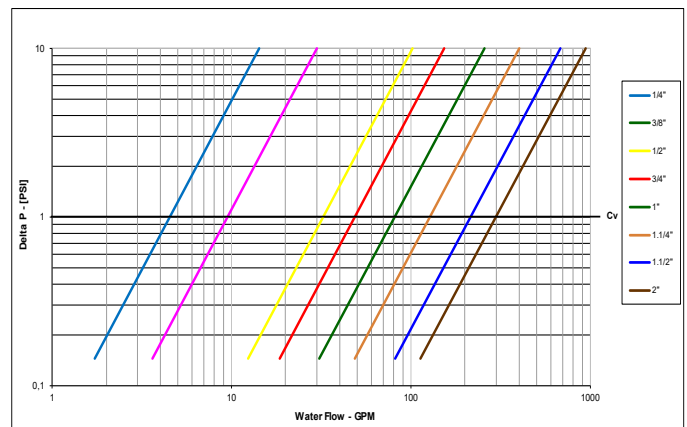


DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.93 BSPT downstream exhaust

**Female/Female
1/2" - 2"**

EN 10226-1, with patented locking handle

Featuring patented tamper-proof lockable handle that has no equal in the market.

RuB s.93 range exhausts automatically and continuously downstream air pressure as soon as turned in the closed position.

Valve is lockable in the closed position only, according to Part. 1910.147 safety OSHA (USA) requirements allowing safe maintenance of the air-supplied equipment; when valve is open, one simple 90° turn of the handle shuts flow immediately.

We care for those you care for.



QUALITY

- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent threads sealant
- The valve body includes a tapped downstream depressurization venting outlet to direct exhaust air or assemble mufflers for noise control
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Molybdenum filled PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 7/1 BSPT taper threads

FLOW

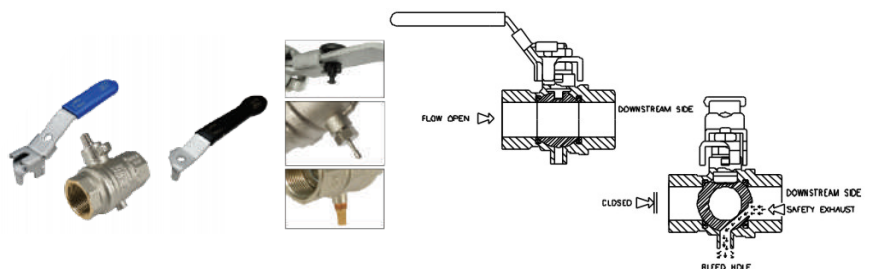
- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel lockable handle patent n. 7074-B/90 with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service

OPTIONS

- Stainless steel handle (1.4016 / AISI 430)
- Non-locking Geomet® carbon steel lever handle
- Safety pin
- Muffler, hose



WORKING PRESSURE & TEMPERATURE

- 14 bar (200 PSI) non-shock cold working pressure
- -10°C to +100°C (+15°F to +210°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Custom design
- T-handle

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25 mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- OSHA Compliant (United States)

NOTE: approvals apply to specific configurations/sizes only.

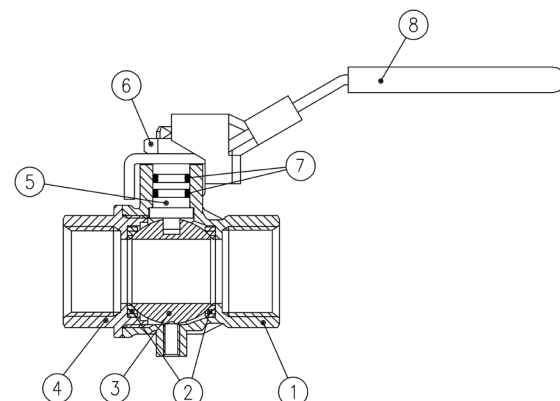
s.93 BSPT XGES93B - 5466

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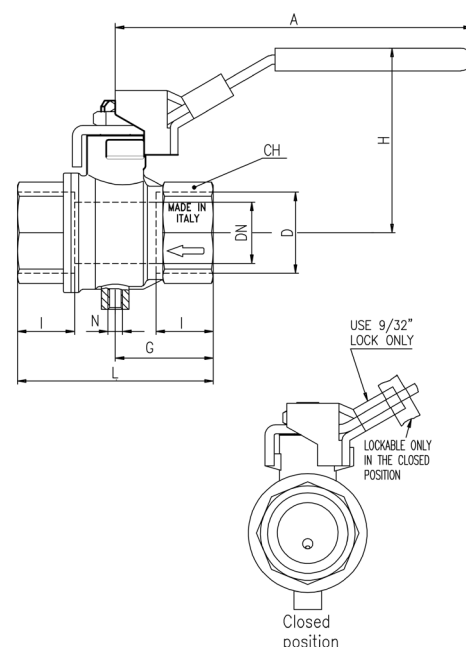


PNEUMATIC

	Part description	Q.ty	Material
1	Nickel plated body (external treatment)	1	CW617N
2	Seat	2	PTFE molybdenum filled
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external treatment)	1	CW617N
5	Nickel plated stem O-Ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Light blue PVC coated Geomet® steel lockable handle	1	DD11 (EN10111)

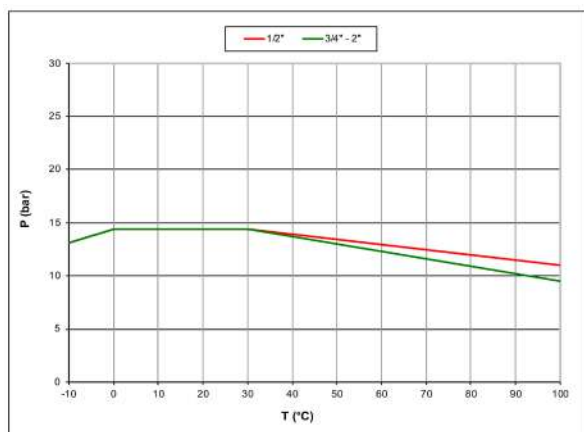


Code	S93D50	S93E50	S93F50	S93G50	S93H50	S93I50
D (inch)	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	15	20	25	32	40	50
I (mm)	15.5	17	21	23	23	26.5
L (mm)	59	64	81	93	102	121
G (mm)	29.5	32	40.5	46.5	51	60.5
A (mm)	96	117	117	156.5	156.5	156.5
H (mm)	51	59	63	77	83	90
CH (mm)	25	31	40	49	54	68.5
N	M5			G 1/4"		
Kv (m3/h)	28	42	70	110	186	256

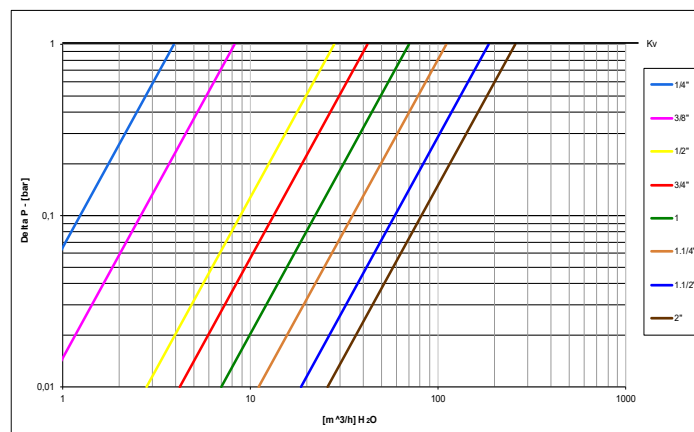


DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART



GAS

Our valves are chosen to ensure gas metering plants, boilers and burners, HVAC systems and water heaters have zero gas leakages. We are chosen to handle even refinery, chemical and pharmaceutical gases like methane, propane and butane. Each of our gas valves is pluri-awarded and certified because we manufacture them to perform flawlessly with any gas type, in any environment and under any local government regulation





k.60 1/4" - 2" EN.10226-1, heavy duty DIN.16722 M3	Page 188
s.80 NPT 3/4" - 2" gas cock with tamper proof lockwing	Page 190
s.80 NPT surepass 3/4" - 1" 175 PSI bypassing gas meter valve	Page 192
s.8042 NPT 3/4" - 2" MIP x FIP with tamper proof lockwing	Page 194
s.8043 NPT dielectric 3/4" - 1 1/4" with tamper proof lockwing	Page 196
s.82 NPT 1/2" - 2" side drain	Page 198
k.84 1/4" - 2" EN.10226-1, DIN.16722 M3	Page 200
s.84 IR6 1/2" - 1" EN.10226-1	Page 202
s.84 EN331 1/4" - 4" EN.10226-1	Page 204
s.84 EN331 M/F 1/4" - 4" EN.10226-1	Page 206
s.84 BSPT 1/4" - 4"	Page 208
s.84 BSPT T-handle 1/4" - 1 1/2"	Page 210
s.92 NPT 1/4" - 4" packing gland	Page 212
s.92 NPT M/F 1/2" - 2" packing gland	Page 214
s.95 NPT 1/4" - 4"	Page 216
s.95 NPT T-handle 1/4" - 4"	Page 218
s.95 NPT nickel plated 1/4" - 4"	Page 220
s.128A 3/4" Y-strainer	Page 222
s.195 NPT 3/8" - 1" standard port gas cock	Page 224
s.195 & flare flare 37° by solder end 1/2" - 3/4", standard port	Page 226



k.60

Female/Female
1/4" - 2"

EN 10226-1, heavy duty DIN 16722 M3

HIGH TEMPERATURE RESISTANCE

Now approved for HTB use (Hochtemperaturbeständigkeit)

Class B 0,1 (0,1 bar @650°C for at least 30 minutes).



H2 READY: product approved in EU acc.to EN331 (sizes 1/4" to 2") for the 1st, 2nd and 3rd gas families, therefore compatible with hydrogen use up to 50% in the gas mixture, as established in the 1st gas family of the EN437 (ref. G110)

QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

BODY

- Hot forged sand blasted, nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Valve length according to DIN 16722 M3 for sizes from 3/8" to 2" (DN10 to DN50). Size 1/4" (DN 8) complies to DIN 3202 M3.
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

- 100% full port for maximum flow

OPTIONS

- Stem extension
- Oval lockable handle ①
- **RuB** memory stop designed to be installed with our stubby handle ②
- Stainless steel handle (1.4016 / AISI 430) ③
- Stubby handle ④
- T-handle ⑤
- Patented locking device



HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 65 bar (940 PSI) up to 1"; 40 bar (600 PSI) over 1" non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- For use with dangerous fluids temperature rating is -20°C to +60°C (-4°F to +140°F) and pressure rating is 5 bar (72 PSI) / **HTB** Class B 0,1
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by ICIM (0425)

APPROVED BY OR IN COMPLIANCE WITH

- SVGW (Switzerland)
- GOST-R (Russia)
- RoHS Compliant (EU)
- DVGW (Germany) – MOP 5 B 0,1
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.



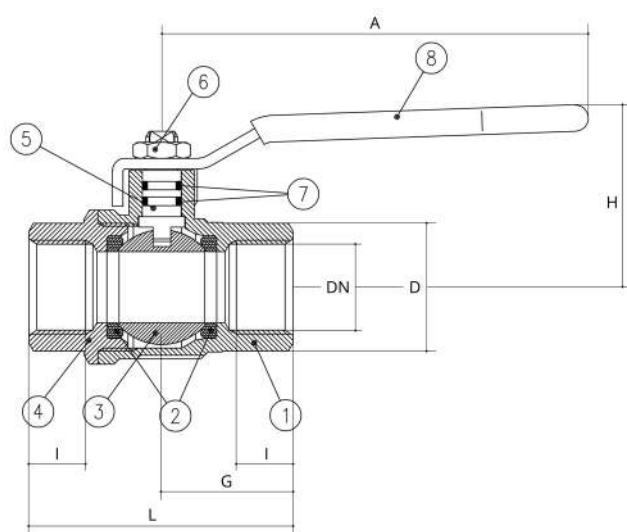
K.60 XCEK60 - 5466

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Part description	Q.ty	Material
1 Nickel plated body	1	CW617N
2 Seat	2	PTFE
3 Chrome plated ball	1	CW617N
4 Nickel plated end-cap	1	CW617N
5 Nickel plated stem O-ring design	1	CW617N
6 Geomet® nut	1	C4C (EN10263-2)
7 O-Ring	2	FPM
8 Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/4"-2" hollow ball



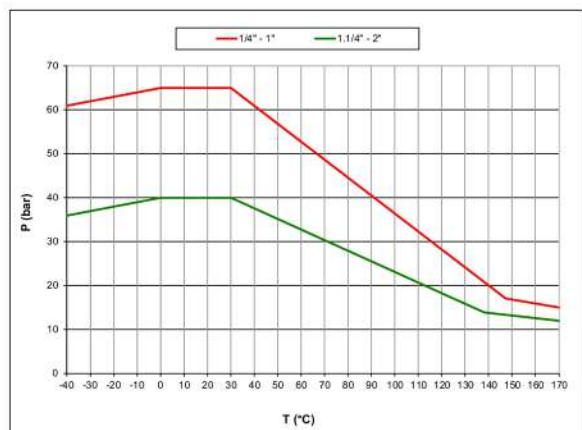
Compliant to CE 2014/68/UE product
Equipment category III Module B+D

Code	S60B05	S60C05	S60D05	S60E05	S60F05	S60G05	S60H05	S60I05
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	14	14	16.5	19	22	25	26	29
L (mm)	50	60	75	80	90	110	120	140
G (mm)	25,5	25,5	30,5	37	45,5	52	59	67,5
A (mm)	82	82	100	120	120	158	158	158
H (mm)	40	40	43	51	55,5	75	81	88
CH (mm)	22	22	27	32	41	50	55	70
PN (bar)	65	65	65	65	65	40	40	40
Kv (m3/h)	4,1	8,7	28	60	100	95	179	233

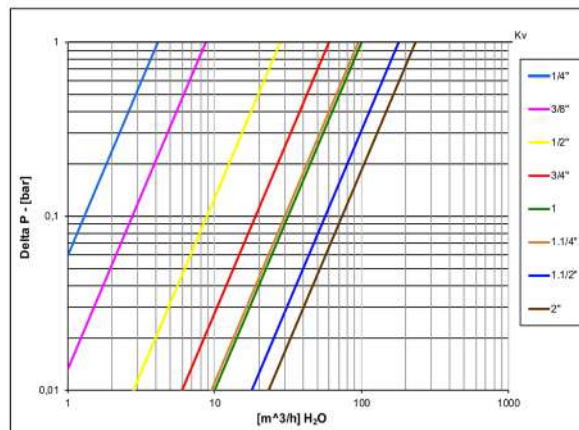
Ball valves are marked CE on handle from 1 1/4" to 2" as follow:

CE 0425 cat IIIB+D PS: 5 GAS TS1: -20°C TS2: +60°C

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.80 NPT

Female/Female

3/4" - 2"

gas cock with tamper, proof lockwing



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Cover clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stresses at stem
- Chrome plated brass ball for longer life

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Special design to combine newest technologies in valve and traditional gascock requirements
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof unplated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Hot forged brass tamper proof lockwing

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) non-shock cold working pressure
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- -40°F / +350°F (-40°C / +170°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Painted gray

APPROVED BY OR IN COMPLIANCE WITH

- Underwriters Laboratories (United States, Canada)
- Guide YSDT: LP-Gas shut-off valve
- Guide YRBX: Flammable liquid shut-off valve
- Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
- Guide MHKZ: No. 6 oil at 250°F
- GOST-R (Russia)
- Canadian standards Association (United States, Canada)
- RoHS Compliant (EU)
- Kuwait Fire Service Directorate (Kuwait)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Male by female NPT threads



s.80 NPT XCES80 - 5466

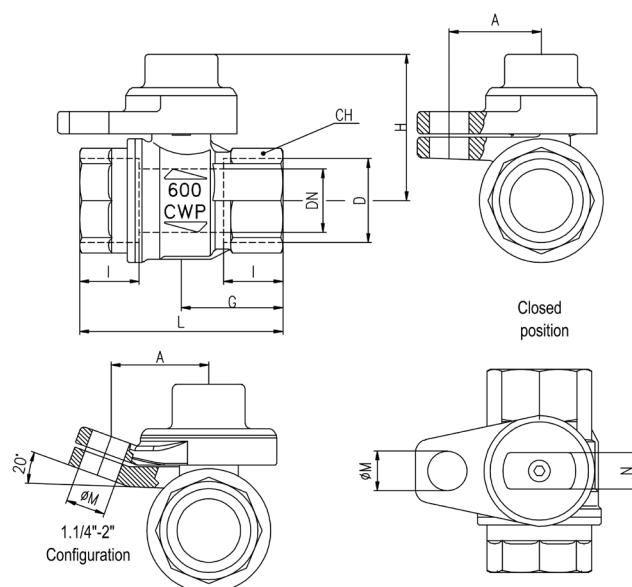
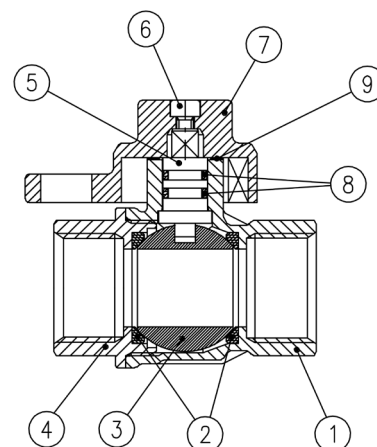
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	Part description	Q.ty	Material
1	Unplated NPT body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated NPT end-cap	1	CW617N
5	Unplated stem O-ring design	1	CW617N
6	Stainless steel screw	1	1.4301 / AISI304
7	Unplated lockwing	1	CW617N
8	O-Ring	2	FPM
9	Washer (from 3/4" to 2")	1	PTFE glass filled 25%

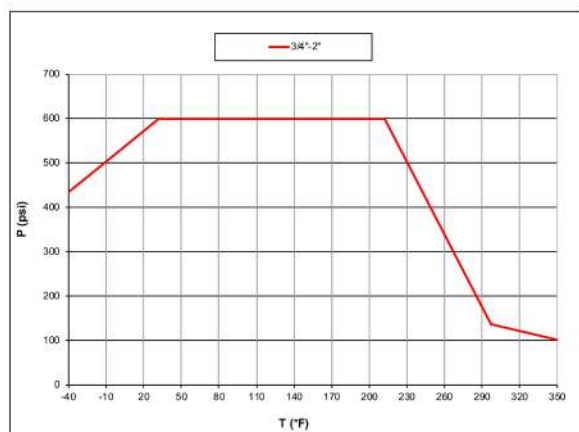
1 1/4"-2" hollow ball

Code	S80E41	S80F41	S80G41	S80H41	S80I41
D (inch)	3/4	1	1 1/4	1 1/2	2
DN (inch)	0.748	0.945	1.181	1.496	1.890
I (inch)	0.669	0.827	0.906	0.906	1.043
L (inch)	2.520	3.189	3.661	4.016	4.764
G (inch)	1.260	1.594	1.831	2.008	2.382
A (inch)	1.142	1.142	1.209	1.209	1.209
H (inch)	1.831	1.988	2.559	2.795	3.071
M (inch)	0.492	0.492	0.472	0.472	0.472
N (inch)	0.449	0.449	0.563	0.563	0.563
CH (inch)	1.220	1.575	1.929	2.126	2.697
Cv (GPM)	48.5	80.9	92.4	144.4	206.8

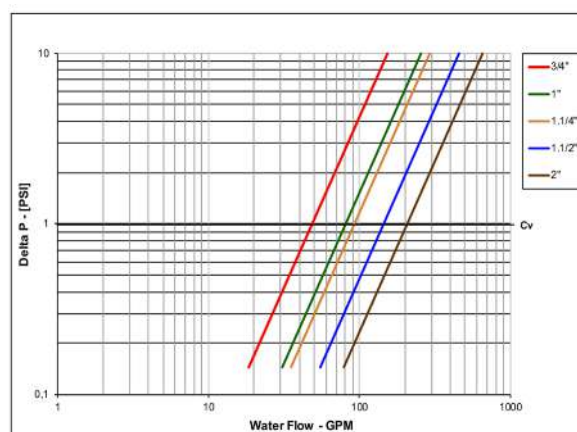


DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART

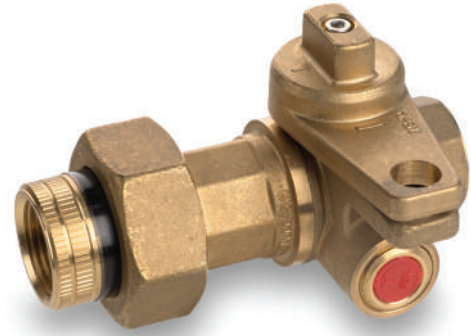




s.80 NPT surepass

3/4" - 1"
175 PSI
bypassing gas meter valve

One quick turn switches valve from normal metered flow to bypass mode for rapid on-line servicing of meter or regulator.



QUALITY

- No metal-to-metal moving parts
- No maintenance or lubrication ever required
- Every valve production tested twice for internal or external leakage
- Meets all applicable parts to DoT 192
- Customer service never interrupted
- Chrome plated brass ball
- Gas theft discouraged by plastic security plug in bypass port and port inaccessible when barrel lock in use

BODY

- Rust-proof forged brass body, ball, stem and lockwing

STEM

- Maintenance-free, double FPM O-rings at the stem for maximum safety, eliminate gas emissions

SEALING

- Pure PTFE seats with flexible-lip design

THREADS

- NPT taper ANSI B1.20.1 female by dielectric union female threads

FLOW

- Full port to DIN 3357 for maximum flow
- Full 100 SCFH gas flow during bypassing

HANDLE

- Tamper proof lockwing
- Single lever operation for positive switch from metering to bypassing

OPTIONS

- Painted gray
- By-pass hose assembly
- Dielectric union end long or short pattern

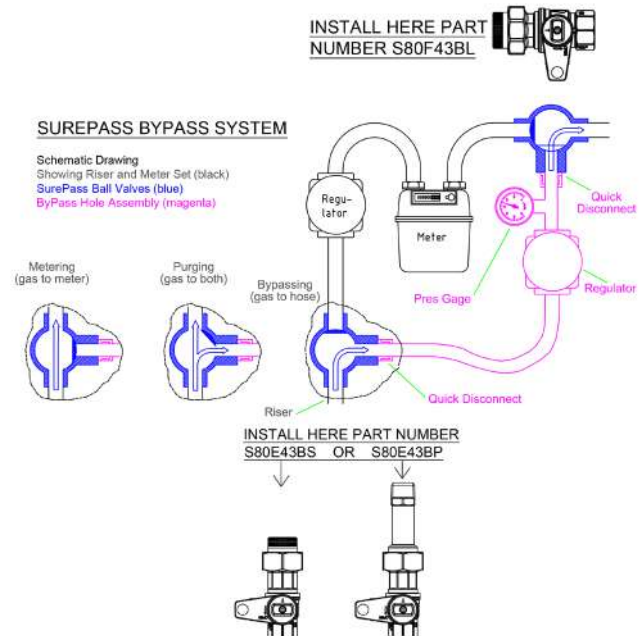
WORKING PRESSURE & TEMPERATURE

- 175 PSI non-shock cold working pressure
- -40°F/ +350°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

APPROVED BY OR IN COMPLIANCE WITH

- Canadian standards Association (United States, Canada)
- GOST-R (Russia)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.



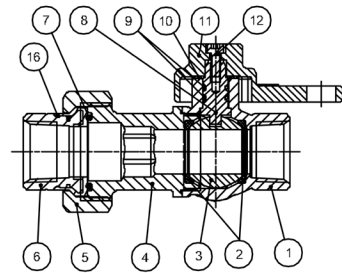
Tamper proof seal

s.80 NPT SUREPASS XCES80SP - 5466

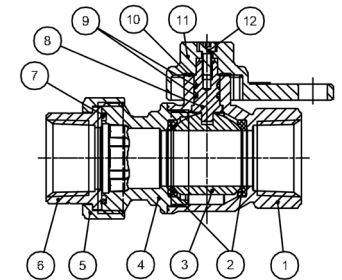
Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.



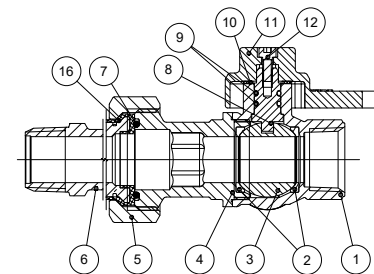
Part description		Q.ty	Material
1	Sand blasted body	1	CW617N
2	Seat	2	PTFE glass filled 5-15%
3	Chrome plated ball	1	CW617N
4	Sand blasted end-cap	1	CW617N
5	Nut	1	CW617N
6	NPT female tail piece	1	CW617N
7	O-Ring	1	FPM
8	Stem O-Ring design	1	CW617N
9	O-Ring	2	FPM
10	Washer	1	PTFE glass filled 25%
11	Sand blasted lockwing	1	CW617N
12	Stainless steel screw	1	1.4301 / AISI304
13	Plug	1	CW617N
14	Security plug	1	Polystyrene
15	O-Ring	1	FPM
16	Insulation (for 3/4")	1	Polyamide



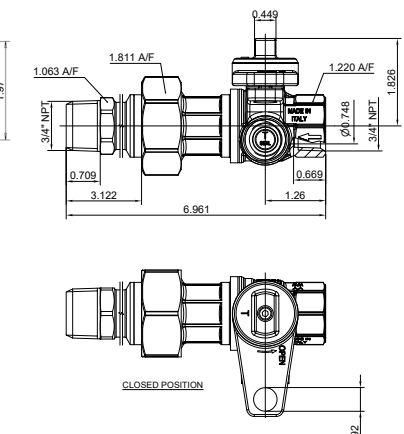
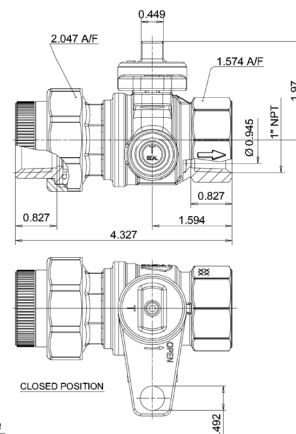
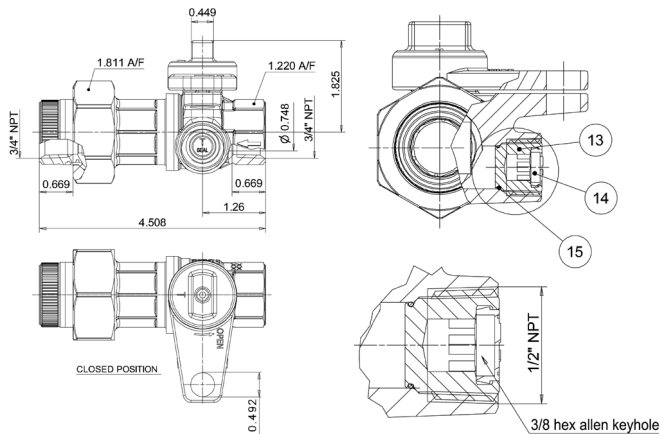
S80E43BS



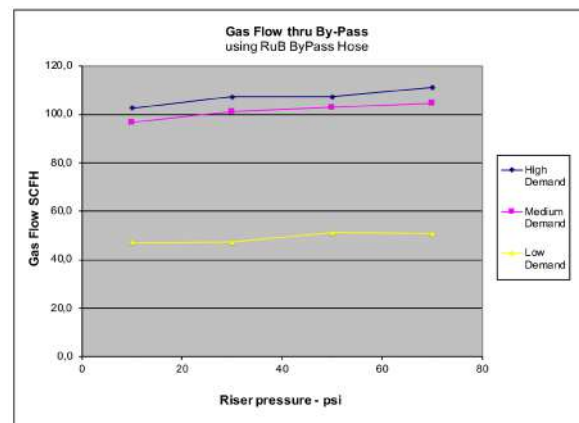
S80F43BL



S80E43BP



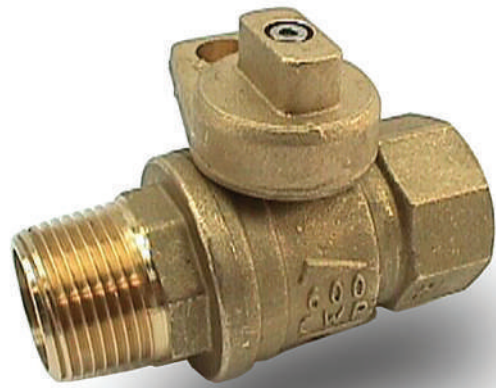
DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.





s.8042 NPT

MxF
3/4" - 2"
with tamper proof lockwing



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Cover clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Special design to combine newest technologies in valve and traditional gascock requirements
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel unplated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 male by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Hot forged brass tamper proof locking

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) non-shock cold working pressure
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- -40°F to +350°F (-40°C / +170°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

APPROVED BY OR IN COMPLIANCE WITH

- Canadian standards Association (United States, Canada)
- GOST-R (Russia)
- RoHS Compliant (EU)
- Underwriters Laboratories (United States, Canada):
 - Guide YSDT: LP-Gas shut-off valve
 - Guide YRBX: Flammable liquid shut-off valve
 - Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
 - Guide MHKZ: No. 6 oil at 250°F

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Female by female NPT threads

s.8042 NPT XCES8042 - 5466

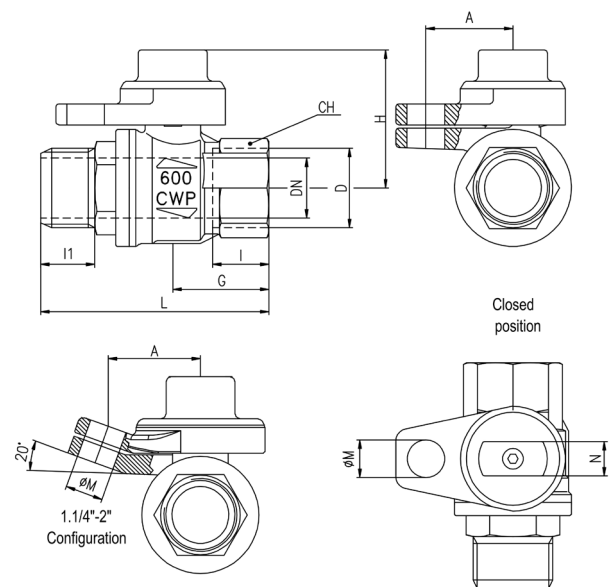
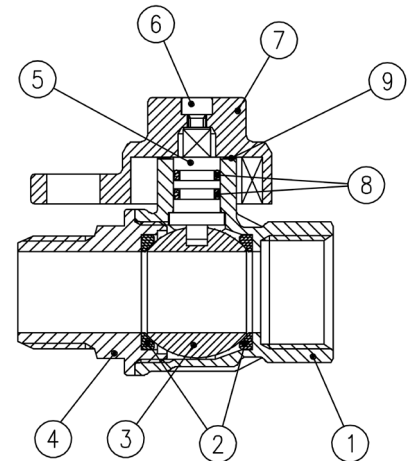
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	Part description	Q.ty	Material
1	Unplated NPT body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated NPT male end-cap	1	CW617N
5	Unplated stem O-ring design	1	CW617N
6	Stainless steel screw	1	1.4301 / AISI 304
7	Unplated lockwing	1	CW617N
8	O-Ring	2	FPM
9	Washer (from 3/4" to 2")	1	PTFE glass filled 25%

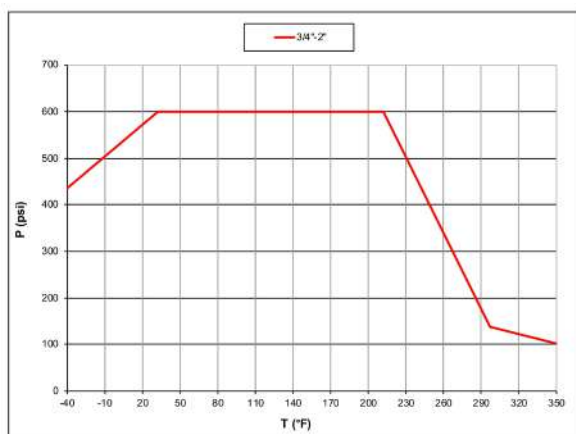
1 1/4"-2" hollow ball

Code	S80E42	S80F42	S80G42	S80H42	S80I42
D (inch)	3/4	1	1 1/4	1 1/2	2
DN (inch)	0.748	0.945	1.181	1.496	1.890
I (inch)	0.669	0.827	0.906	0.906	1.043
I1 (inch)	0.709	0.866	0.945	0.945	1.083
L (inch)	2.992	3.642	4.173	4.449	5.236
G (inch)	1.260	1.594	1.831	2.008	2.382
A (inch)	1.142	1.142	1.209	1.209	1.209
H (inch)	1.831	1.988	2.559	2.795	3.071
M (inch)	0.492	0.492	0.472	0.472	0.472
N (inch)	0.449	0.449	0.563	0.563	0.563
CH (inch)	1.220	1.575	1.929	2.126	2.697
Cv (GPM)	48.5	80.9	92.4	144.4	206.8

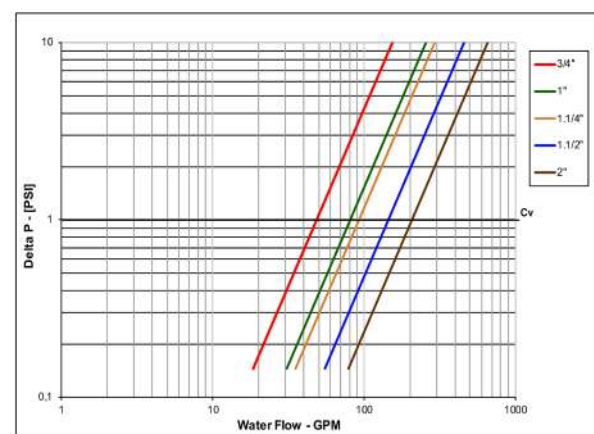


DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



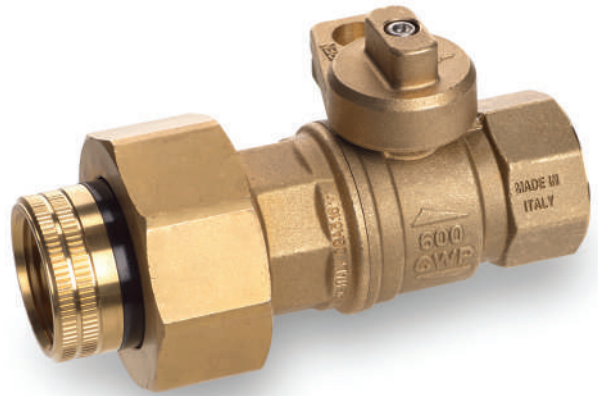
PRESSURE DROP CHART





s.8043 NPT dielectric

3/4" - 1 1/4"
with tamper proof lockwing



QUALITY

- 24h 100% seal test guaranteed
- No metal-to-metal moving parts
- No maintenance ever required
- Cover clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Special design to combine newest technologies in valve and traditional gascock requirements
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof unplated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 female by dielectric union female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Hot forged brass tamper proof lockwing

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) non-shock cold working pressure
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- -40°F to +350°F (-40°C / +170°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- See s.80

APPROVED BY OR IN COMPLIANCE WITH

- Underwriters Laboratories (United States, Canada):
 - Guide YSDT: LP-Gas shut-off valve
 - Guide YRBX: Flammable liquid shut-off valve
 - Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
- GOST-R (Russia)
- RoHS Compliant (EU)
- Canadian standards Association (United States, Canada)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Painted gray
- Dielectric union end long or short pattern

s.8043 NPT XCES8043 - 5466

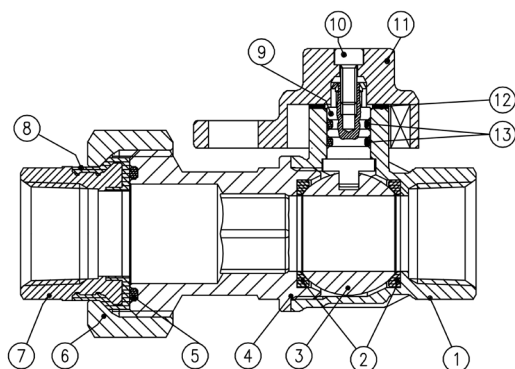
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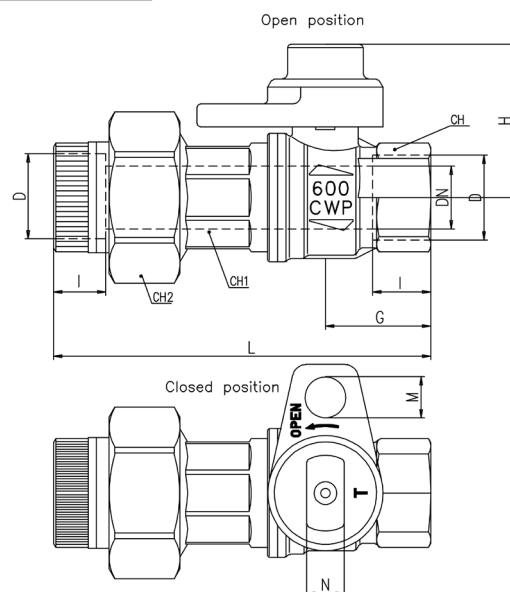
	Part description	Q.ty	Material
1	Unplated body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated spacer	1	CW617N
5	Tail piece O-Ring	1	FPM
6	Unplated nut	1	CW617N
7	Dielectric tail piece	1	CW617N
8	Insulation	1	Polyamide
9	Unplated stem O-ring design	1	CW617N
10	Stainless steel screw	1	1.4301 / AISI 304
11	Unplated lockwing	1	CW617N
12	Washer	1	PTFE glass filed 25%
13	Stem O-ring	2	FPM

Code	S80E43	S80F43	S80G43
D (inch)	3/4"	1"	1 1/4"
DN (inch)	0.748	0.945	1.181
I (inch)	0.669	0.827	0.906
L (inch)	4.508	5.157	5.236
G (inch)	1.260	1.594	1.831
A (inch)	1.141	1.141	1.209
H (inch)	1.831	1.988	2.559
M (inch)	0.492	0.492	0.472
N (inch)	0.449	0.449	0.563
CH (inch)	1.220	1.575	1.929
CH1 (inch)	1.220	1.575	1.929
CH2 (inch)	1.811	2.402	2.441
Cv (GPM)	48.5	80.9	92.4

1 1/4" hollow ball



DN shows the nominal flow diameter.
Actual flow diameter complies with full port DIN 3357 part 4.



PRESSURE-TEMPERATURE CHART

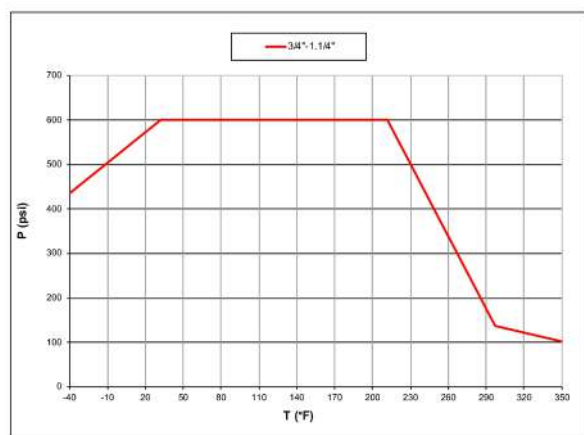
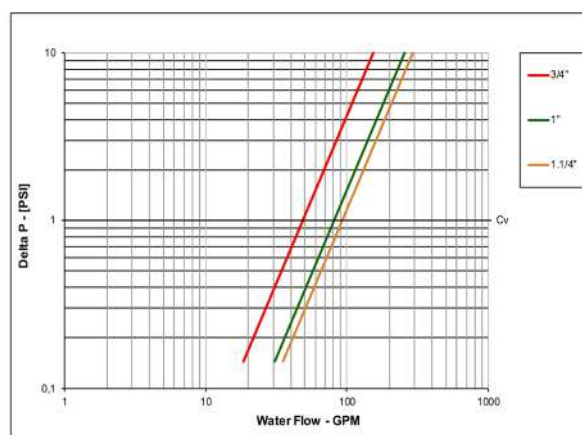


Chart applies to valve

PRESSURE DROP CHART





s.82 NPT

**Female/Female
1/2" - 2" side drain**



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stress at stem
- Chrome plated brass ball for longer life

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Side drain allows easy and safe downstream line venting
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads
- 1/4" NPT side tap

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) non-shock cold working pressure
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- -40°F/+350°F (-40°C / +170°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball and/or stem (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design
- Dual side drain port

APPROVED BY OR IN COMPLIANCE WITH

- Canadian standards Association (United States, Canada)
- GOST-R (Russia)
- RoHS Compliant (EU)
- Underwriters Laboratories (United States, Canada):
 - Guide YSDT: LP-Gas shut-off valve
 - Guide YRBX: Flammable liquid shut-off valve
 - Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
 - Guide MHKZ: No. 6 oil at 250°F

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Stem extension
- Oval lockable handle ¹
- **RuB** memory stop designed to be installed with our stubby handle ²
- Stainless steel handle (1.4016 / AISI 430) ³
- Stubby handle ⁴
- T-handle ⁵
- Patented locking device

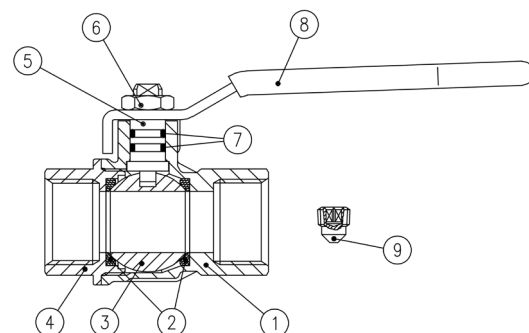


s.82 NPT XCES82 - 5466

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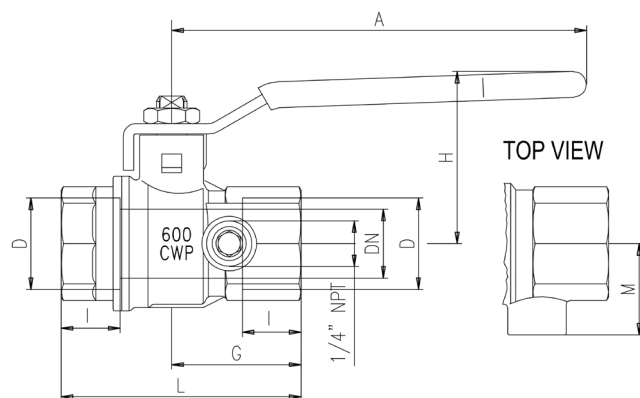


	Part description	Q.ty	Material
1	Unplated body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated NPT end-cap	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)
9	Unplated plug	1	CW617N



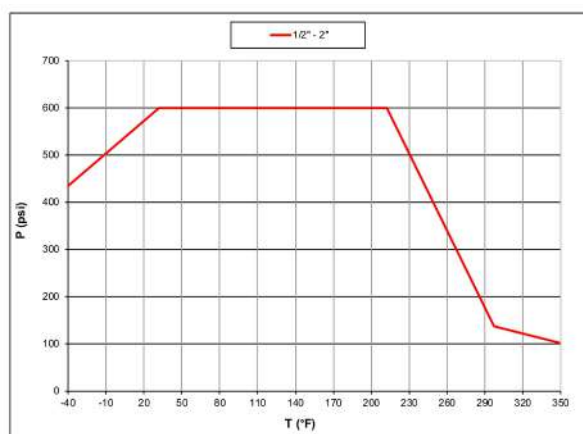
1 1/4"-2" hollow ball

Code	S82D41	S82E41	S82F41	S82G41	S82H41	S82I41
D (inch)	1/2	3/4	1	1 1/4	1 1/2	2
DN (inch)	0.591	0.748	0.945	1.181	1.496	1.890
I (inch)	0.610	0.669	0.827	0.906	0.906	1.043
L (inch)	2.559	2.736	3.406	3.878	4.232	4.961
G (inch)	1.398	1.476	1.811	2.047	2.224	2.579
A (inch)	3.937	4.724	4.724	6.220	6.220	6.220
H (inch)	1.679	1.956	2.114	2.858	3.094	3.370
M (inch)	0.964	1.063	1.200	1.338	1.516	1.752
CH (inch)	0.984	1.220	1.575	1.929	2.126	2.697
Cv (GPM)	32.3	48.5	80.9	92.4	144.4	206.8

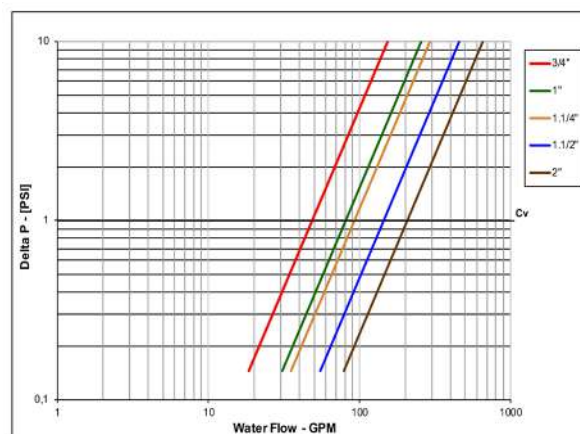


DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





k.84

Female/Female
1/4" - 2"
EN 10226-1, DIN 16722 M3

HIGH TEMPERATURE RESISTANCE

Now approved for HTB use (Hochtemperaturbeständigkeit)

Class B 0,1 (0,1 bar @650°C for at least 30 minutes).



H2 READY: product approved in EU acc.to EN331 (sizes 1/4" to 2") for the 1st, 2nd and 3rd gas families, therefore compatible with hydrogen use up to 50% in the gas mixture, as established in the 1st gas family of the EN437 (ref. G110)

QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stresses at stem
- Chrome plated brass ball for longer life with rinse hole

BODY

- Valve length according to DIN 16722 M3 for sizes from 3/8" to 2" (DN10 to DN50). Size 1/4" (DN 8) complies to DIN 3202 M3.
- Finest brass according to EN 12165 and EN 12164 specifications
- Hot forged sand blasted external nickel plated brass body and cap sealed with Loctite® or equivalent threads sealant

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO 7/1, ISO 228 parallel female by female threads

PED DIRECTIVE

- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by ICIM (0425)

OPTIONS

- Stem extension
- Oval lockable handle ❶
- **RuB** memory stop designed to be installed with our stubby handle ❷
- Stainless steel handle (1.4016 / AISI 430) ❸
- Stubby handle ❹
- T-handle ❺
- Patented locking device



bsi.



FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- For use with dangerous fluids temperature rating is
- -20°C to +60°C (-4°F to +140°F) and pressure rating is 5 bar (72 PSI) /

HTB Class B 0,1

- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

APPROVED BY OR IN COMPLIANCE WITH

- BSI Group (United Kingdom)
- SVGW (Switzerland)
- RoHS Compliant (EU)
- DIN-DVGW (Germany) – MOP 5 B 0,1
- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

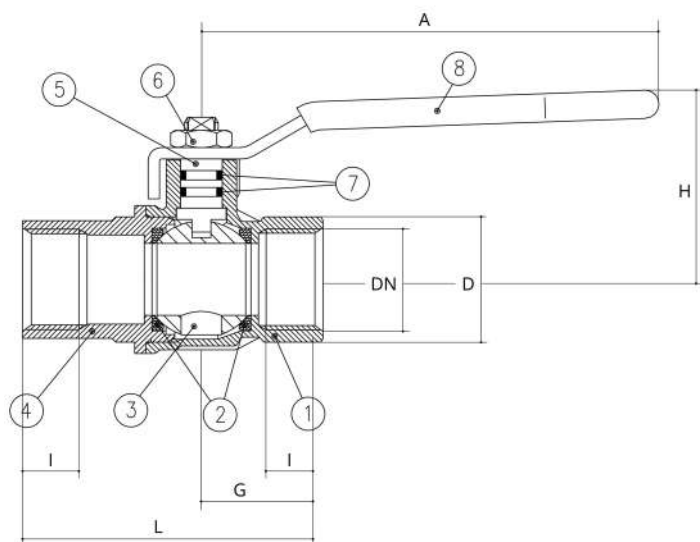


K.84 XCEK84 - 5466

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	Part description	Q.ty	Material
1	Nickel plated body (external treatment)	1	CW617N
2	Ball seat	2	PTFE
3	Chrome plated ball with rinse hole (read rinse hole on sizes from 3/4" up to 2")	1	CW617N
4	Nickel plated end-cap (external treatment)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)



1 1/4"-2" hollow ball

Compliant to CE 2014/68/UE product
Equipment category III Module B+D

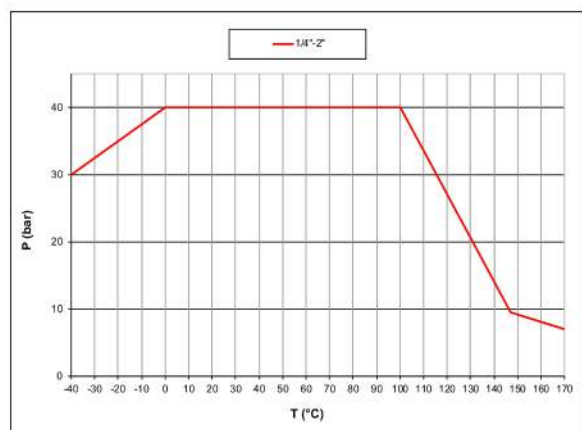
Code	S84B05	S84C05	S84D05	S84E05	S84F05	S84G05	S84H05	S84I05
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	12	12	15.5	17	21	23	23	26.5
L (mm)	50	60	75	80	90	110	120	140
G (mm)	22.5	22.5	29.5	32	40.5	46.5	51	60.5
A (mm)	82	82	100	120	120	158	158	158
H (mm)	38	38	43	50	54	73	79	86
CH (mm)	17	20	25	31	40	49	54	68.5
Kv (m3/h)	3.9	8.2	28	36	62	79	124	178

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

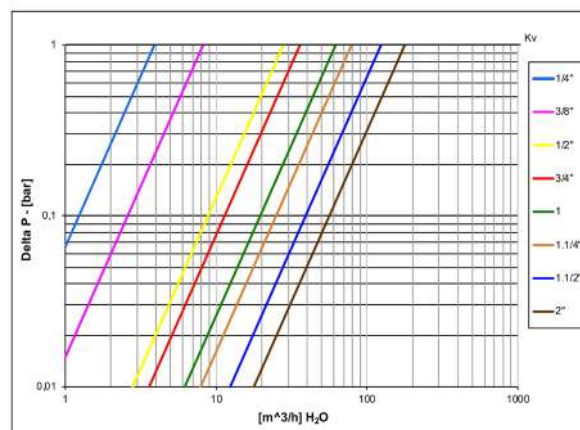
Ball valves are marked CE on handle from 1 1/4" to 2" as follow:

CE 0425 cat IIIB+D PS: 5 GAS TS1:-20°C TS2:+60°C

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.84 IR6

Female/Female
1/2" - 1"
EN 10226-1

HIGH TEMPERATURE RESISTANCE

Now approved for HTB use (Hochtemperaturbeständigkeit)
Class B 0,1 (0,1 bar @650°C for at least 30 minutes).



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stresses at stem
- Chrome plated brass ball for longer life with rinse hole

BODY

- Hot forged sand blasted external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance- free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

OPTIONS

- Stem extension
- Geomet® carbon steel handle with PVC dip coating
- Stainless steel handle (1.4016 / AISI 430)
- Taper male by union end
- Oval lockable handle
- Patented locking device
- Stubby handle
- RuB memory stop designed to be installed with our stubby handle

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Aluminum T-handle, painted yellow.
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- T-handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- For use with dangerous fluids temperature rating is -20°C +60°C and pressure rating is 5 bar / HTB Class B 0,1
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- DIN-DVGW (Germany) – MOP 5 B 0,1*
- ARGB-KVBG (Belgium) – MOP 5 bar for outside building gas installation*

NOTE: approvals apply to specific configurations/sizes only.

* = valve only is approved to EN331 / EN1775.

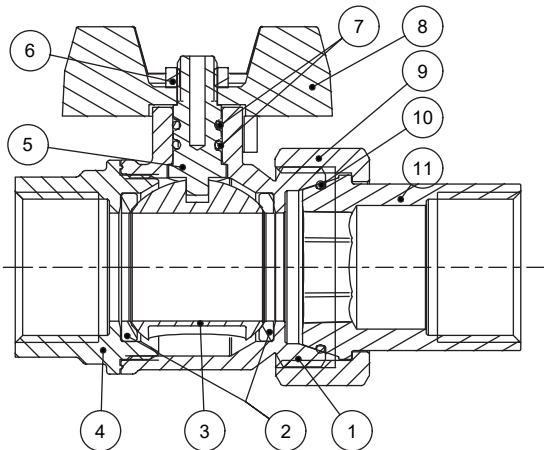


s.84 IR6 XCES84IR6 - 5466

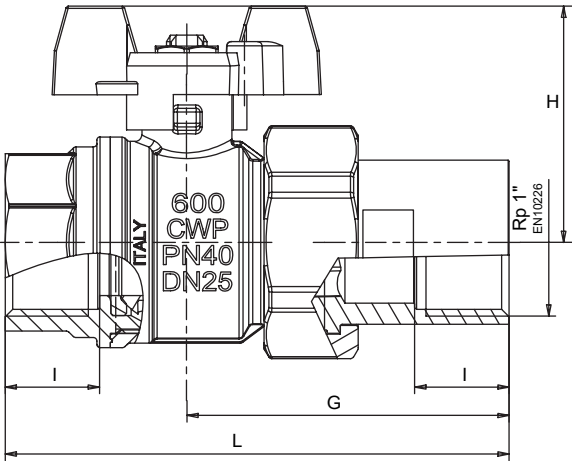
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Part description		Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Yellow T-handle	1	EN AC-46100 (EN1676)
9	Nickel plated union nut	1	CW617N
10	O-Ring	1	FPM
11	Nickel plated union end	1	CW617N

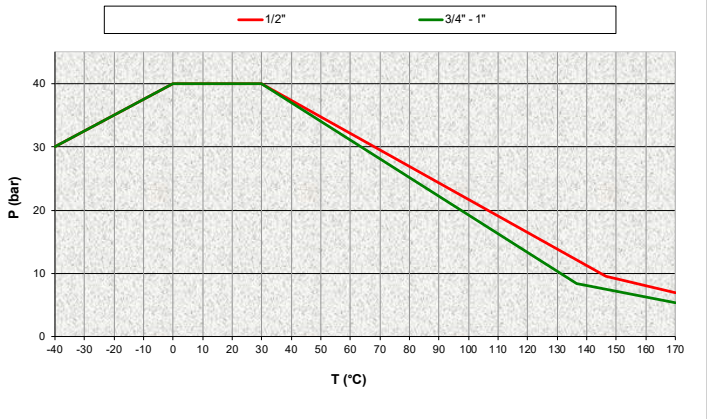


Code	S84D1R6	S84E1R6	S84F1R6
D (inch)	1/2	3/4	1
DN (mm)	15	20	25
I (mm)	15.5	17	21
L (mm)	84.2	95.5	112
G (mm)	55	63.5	71.7
H (mm)	43	49.5	53.5
Kv (m3/h)	28	42	62

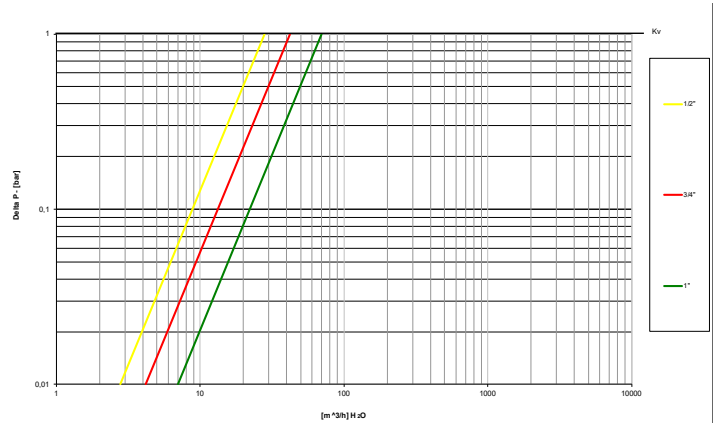


DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.84 EN331

Female/Female
1/4" - 4"
EN 10226-1

HIGH TEMPERATURE RESISTANCE

Now approved for HTB use (Hochtemperaturbeständigkeit)

Class B 0,1 (0,1 bar @650°C for at least 30 minutes).



H2 READY: product approved in EU acc.to EN331 (sizes 1/4" to 2") for the 1st, 2nd and 3rd gas families, therefore compatible with hydrogen use up to 50% in the gas mixture, as established in the 1st gas family of the EN437 (ref. G110)

QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stresses at stem
- Chrome plated brass ball for longer life with rinse hole

BODY

- Hot forged sand blasted external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

FLOW

- Full port to DIN 3357 for maximum flow

OPTIONS UP TO 2" SIZE

- Oval lockable handle up to 2", round over 2" **1**
- **RuB** memory stop designed to be installed with our stubby handle **2**
- Stainless steel handle (1.4016 / AISI 430) **3**
- Stubby handle **4**
- T-handle **5**
- Stem extension
- Patented locking device for valves up to 4"



PED DIRECTIVE

- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by ICIM (0425)

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) up to 2", 30 bar (450 PSI) over 2" non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- For use with dangerous fluids temperature rating is -20°C +60°C and pressure rating is 5 bar / **HTB** Class B 0,1
- AS4617 Limitation for GAS: 2100 Kpa up to 2" and 1500 Kpa from 2 1/2" to 4" rated working pressure and 0°C / +60°C temperature
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

APPROVED BY OR IN COMPLIANCE WITH

- The Australian Gas Association (Australia)
- SVGW (Switzerland)
- Factory Mutual (United States)
- BSI Group (United Kingdom)
- RoHS Compliant (EU)
- GOST-R (Russia)
- DIN-DVGW (Germany) – MOP 5 B 0,1
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- ARGB-KVBG (Belgium) – MOP 5 bar for outside building gas installation, MOP 100 mbar for inside the buildings

NOTE: approvals apply to specific configurations/sizes only.



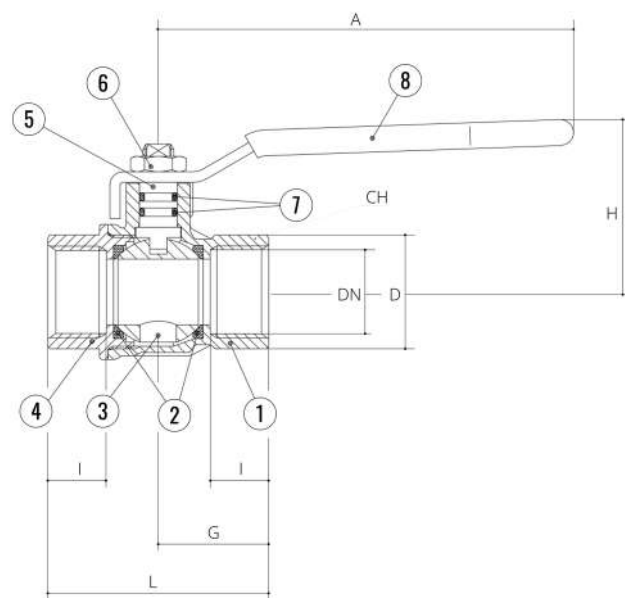
s.84EN331 XCES84E - 5466

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Part description		Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside up to 2")	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole (read rinse hole on sizes from 3/4" up to 2")	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside up to 2")	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/4" - 2" hollow ball



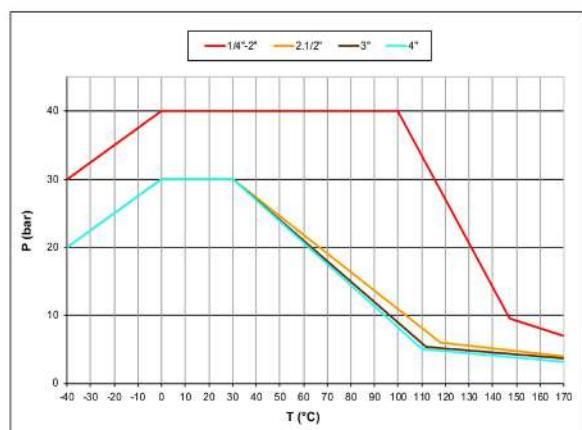
Compliant to CE 2014/68/UE product Equipment category III Module B+D

Code	S84B00	S84C00	S84D00	S84E00	S84F00	S84G00	S84H00	S84I00	S84L00	S84M00	S84N00
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
DN (mm)	8	10	15	20	25	32	40	50	65	80	100
I (mm)	12	12	15.5	17	21	23	23	26.5	32	35	41.5
L (mm)	45	45	59	64	81	93	102	121	156	177	216
G (mm)	22.5	22.5	29.5	32	40.5	46.5	51	60.5	78	88.5	108
A (mm)	82	82	100	120	120	158	158	158	255	255	255
H (mm)	38	38	43	50	54	73	79	86	132	140	154
CH (mm)	17	20	25	31	40	49	54	68.5	85	99	125
Kv (m3/h)	3.9	8.2	28	36	62	79	124	178	516	776	1130

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different. Ball valves are marked CE on handle from 1 1/4" to 2", on body over 2" as follow:

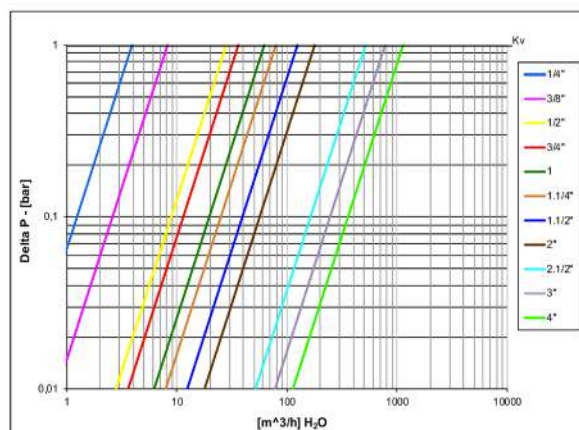
CE 0425 cat IIIB+D PS: 5 GAS TS1: -20°C TS2: +60°C

PRESSURE-TEMPERATURE CHART



AS4617 limitations for GAS: 2100 Kpa up to 2" and 1500 Kpa from 2 1/2" to 4" rated working pressure and 0°C +60°C temperature

PRESSURE DROP CHART





s.84 EN331 M/F

Male/Female
1/4" - 4"
EN 10226-1

HIGH TEMPERATURE RESISTANCE

Now approved for HTB use (Hochtemperaturbeständigkeit)

Class B 0,1 (0,1 bar @650°C for at least 30 minutes).



H2 READY: product approved in EU acc.to EN331 (sizes 1/4" to 2") for the 1st, 2nd and 3rd gas families, therefore compatible with hydrogen use up to 50% in the gas mixture, as established in the 1st gas family of the EN437 (ref. G110)

QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stresses at stem
- Chrome plated brass ball for longer life with rinse hole

BODY

- Hot forged sand blasted external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO 228 parallel female thread by EN10226-1, ISO7/1 taper male thread

PED DIRECTIVE

- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by ICIM (0425)

FLOW

- Full port to DIN 3357 for maximum flow

OPTIONS UP TO 2" SIZE

- Oval lockable handle up to 2", round over 2" **1**
- **RuB** memory stop designed to be installed with our stubby handle **2**
- Stainless steel handle (1.4016 / AISI 430) **3**
- Stubby handle **4**
- T-handle **5**
- Stem extension
- Patented locking device for valves up to 4"



HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) up to 2", 30 bar (450 PSI) over 2" non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- For use with dangerous fluids temperature rating is -20°C +60°C and pressure rating is 5 bar / **HTB** Class B 0,1
- AS4617 Limitation for GAS: 2100 Kpa up to 2" and 1500 Kpa from 2 1/2" to 4" rated working pressure and 0°C / +60°C temperature
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

APPROVED BY OR IN COMPLIANCE WITH

- The Australian Gas Association (Australia)
- SVGW (Switzerland)
- Factory Mutual (United States)
- BSI Group (United Kingdom)
- RoHS Compliant (EU)
- GOST-R (Russia)
- DIN-DVGW (Germany) – MOP 5 B 0,1
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- ARGB-KVBG (Belgium) – MOP 5 bar for outside building gas installation

NOTE: approvals apply to specific configurations/sizes only.



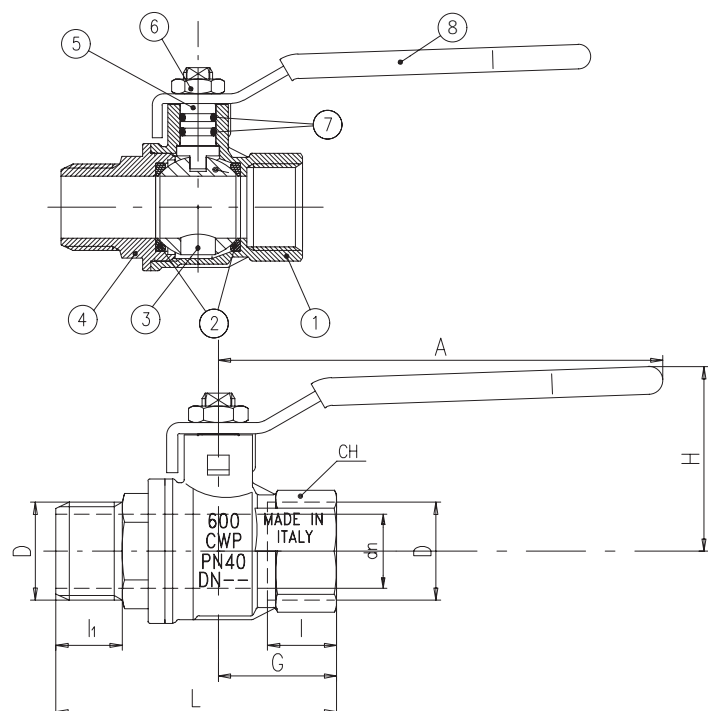
s.84 EN331 MF XCES84EM - 5466

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	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside up to 2")	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole (read rinse hole on sizes from 3/4" up to 2")	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside up to 2")	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/4" - 2" hollow ball



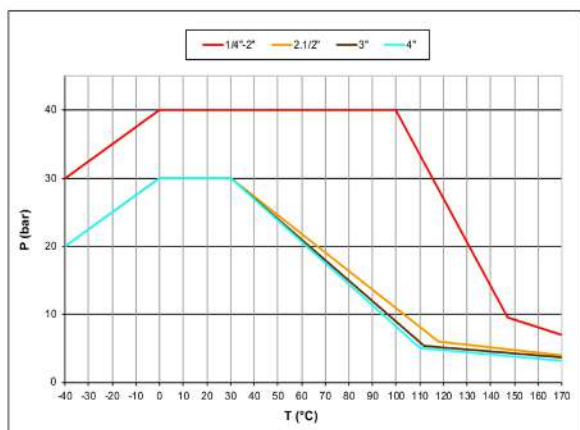
Compliant to CE 2014/68/UE product Equipment category III Module B+D

Code	S84B20	S84C20	S84D20	S84E20	S84F20	S84G20	S84H20	S84I20	S84L20	S84M20	S84N20
D (inch)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (mm)	8	10	15	20	25	32	40	50	65	80	100
I (mm)	12	12	15.5	17	21	23	23	26.5	32	35	41.5
I1 (mm)	13.5	13.5	16.5	18	22	24	24	27.5	37	39.5	44
L (mm)	56.5	56.5	70	76.5	92.5	106	113	133	180.5	204.5	238
G (mm)	22.5	22.5	29.5	32	40.5	46.5	51	60.5	78	88.5	108
A (mm)	82	82	100	120	120	158	158	158	255	255	255
H (mm)	38	38	43	50	54	73	79	86	132	140	154
CH (mm)	17	20	25	31	40	49	54	68.5	85	99	125
Kv (m3/h)	3.9	8.2	28	36	62	79	124	178	516	776	1130

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different. Ball valves are marked CE on handle from 1 1/4" to 2", on body over 2" as follow:

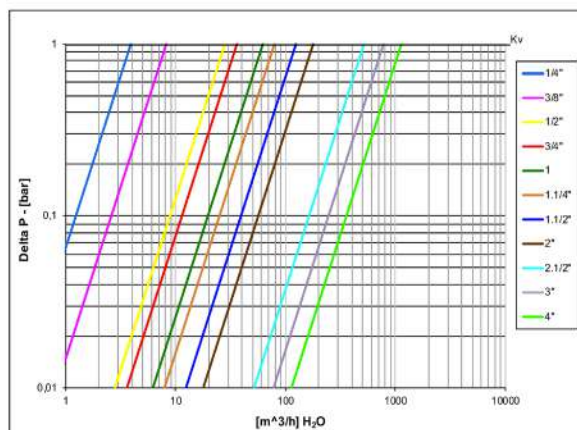
CE 0425 cat IIIB+D PS: 5 GAS TS1: -20°C TS2: +60°C

PRESSURE-TEMPERATURE CHART



AS4617 limitations for GAS: 2100 Kpa up to 2" and 1500 Kpa from 2 1/2" to 4" rated working pressure and 0°C +60°C temperature

PRESSURE DROP CHART





s.84 BSPT

Female/Female
1/4" - 4"



H2 READY: product approved in EU acc.to EN331 (sizes 1/4" to 2") for the 1st, 2nd and 3rd gas families, therefore compatible with hydrogen use up to 50% in the gas mixture, as established in the 1st gas family of the EN437 (ref. G110)



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN10226-2, ISO 7/1, BS 21 BSPT taper female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) up to 2", 30 bar (450 PSI) over 2" non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- For use with dangerous fluids temperature rating is -20°C +60°C and pressure rating is 5 bar
- AS4617 Limitation for GAS: 2100 Kpa up to 2" and 1500 Kpa from 2 1/2" to 4" rated working pressure and 0°C / +60°C temperature
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by ICIM (0425)

APPROVED BY OR IN COMPLIANCE WITH

- The Australian Gas Association (Australia)
- Factory Mutual (United States)
- BSI Group (United Kingdom)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS UP TO 2" SIZE

- Stem extension
- Oval lockable handle up to 2", round over 2" **1**
- **RuB** memory stop designed to be installed with our stubby handle **2**
- Stainless steel handle (1.4016 / AISI 430) **3**
- Patented locking device for valves up to 4"
- Stubby handle **4**
- T-handle **5**

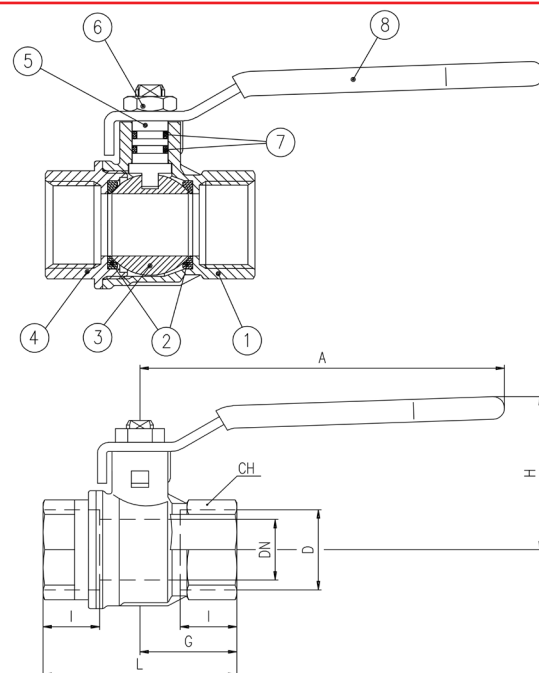


s.84 BSPT XGES84 - 5466

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	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside up to 2")	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside up to 2")	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)



1 1/4"-2" hollow ball

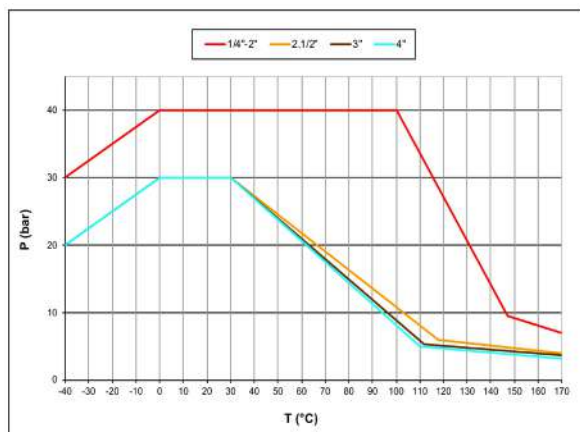
Compliant to CE 2014/68/UE product Equipment category III Module B+D

Code	S84B50Y	S84C50Y	S84D50Y	S84E50Y	S84F50Y	S84G50Y	S84H50Y	S84I50Y	S84L50Y	S84M50Y	S84N50Y
D (inch)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (mm)	8	10	15	20	25	32	40	50	65	80	100
I (mm)	12	12	15.5	17	21	23	23	26.5	32	35	41.5
L (mm)	45	45	59	64	81	93	102	121	156	177	216
G (mm)	22.5	22.5	29.5	32	40.5	46.5	51	60.5	78	88.5	108
A (mm)	82	82	100	120	120	158	158	158	255	255	255
H (mm)	38	38	43	50	54	73	79	86	132	140	154
CH (mm)	17	20	25	31	40	49	54	68.5	85	99	105

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different. Ball valves are marked CE on handle from 1 1/4" to 2", on body over 2" as follow:

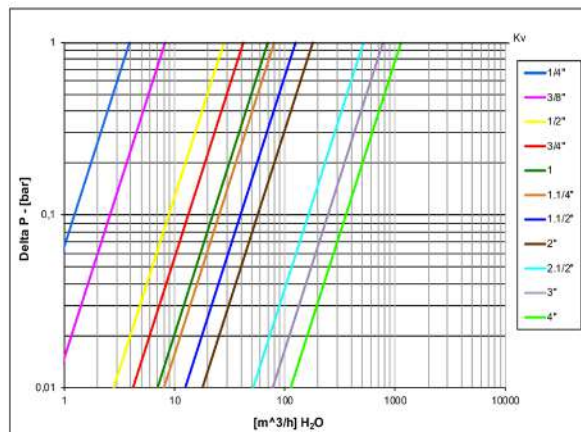
CE 0425 cat IIIB+D PS: 5 GAS TS1:-20°C TS2: +60°C

PRESSURE-TEMPERATURE CHART



AS4617 limitations for GAS: 2100 Kpa up to 2" and 1500 Kpa from 2 1/2" to 4" rated working pressure and 0°C +60°C temperature

PRESSURE DROP CHART





s.84 BSPT T-handle

Female/Female
1/4" - 1 1/2"



H2 READY: product approved in EU acc.to EN331 (sizes 1/4" to 2") for the 1st, 2nd and 3rd gas families, therefore compatible with hydrogen use up to 50% in the gas mixture, as established in the 1st gas family of the EN437 (ref. G110)

bsi.



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- T-Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN10226-2, ISO 7/1, BS 21 BSPT taper female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Aluminum T-handle up to 1", Geomet® carbon steel T-handle with thick PVC dip coating over 1"
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- For use with dangerous fluids temperature rating is -20°C +60°C and pressure rating is 5 bar
- AS4617 Limitation for GAS: 2100 Kpa rated working pressure and 0°C / +60°C temperature
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by ICIM (0425)

APPROVED BY OR IN COMPLIANCE WITH

- The Australian Gas Association (Australia)
- Factory Mutual (United States)
- BSI Group (United Kingdom)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Stem extension
- Oval lockable handle ¹
- **RuB** memory stop designed to be installed with our stubby handle ²
- Stainless steel handle (1.4016 / AISI 430) ³
- Stubby handle ⁴
- Geomet® carbon steel handle with thick PVC dip coating
- Patented locking device



s.84 BSPT T-handle XCES84T - 5466

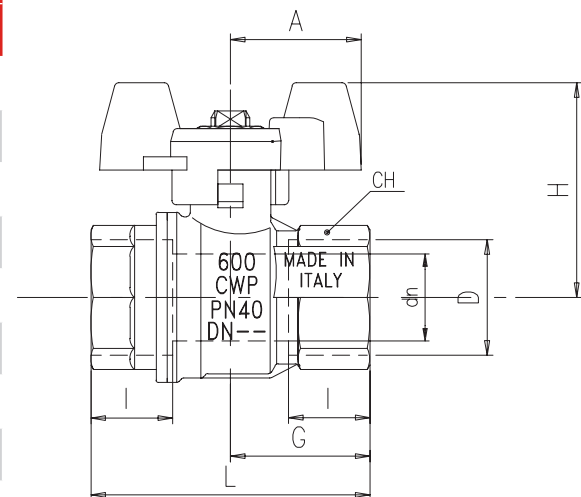
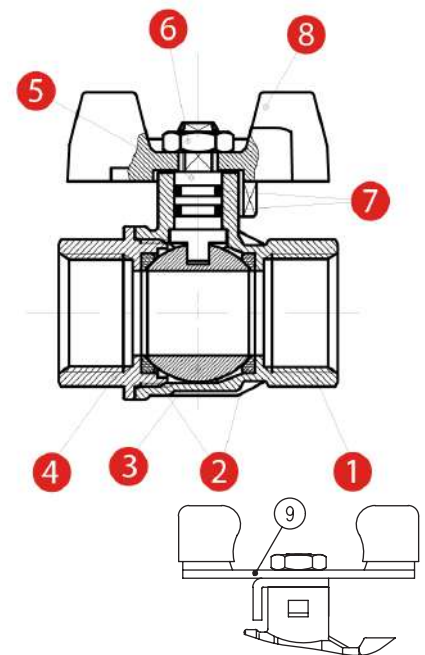
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Part description		Q.ty	Material
1	Nickel plated body (External nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end cap (External nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Yellow PVC T-handle	1	EN AC-46100
9	Yellow PVC coated Geomet® steel T-handle	1	DD11 (EN10111)

Compliant to CE
2014/68/UE product
Equipment category
III Module B+D

Code	S84B56	S84C56	S84D56	S84E56	S84F56	S84G56	S84H56
D (inch)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"
DN (mm)	8	10	15	20	24	32	40
I (mm)	12	12	15.5	17	21	23	23
L (mm)	45	45	59	64	81	93	102
G (mm)	22.5	22.5	29.5	32	40.5	46.5	51
A (mm)	25	25	25	30	30	57	57
H (mm)	39	39	43	49.5	53.5	84.5	90.5
CH (mm)	17	20	25	31	40	49	54

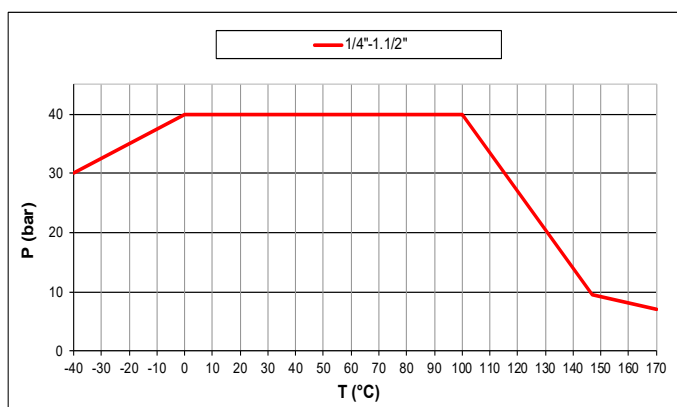


DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

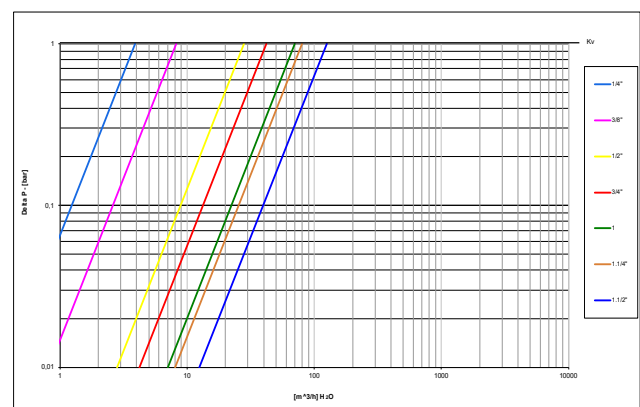
Ball valves are marked CE on body from 1 1/4" to 1 1/2":

CE 0425 cat IIIB+D PS: 5 GAS TS1:-20°C TS2: +60°C

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART



AS4617 limitations for GAS: 2100 Kpa rated working pressure and 0°C +60°C temperature



s.92 NPT

**Female/Female
1/4" - 4"
packing gland**



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Pure PTFE adjustable packing gland and reinforced washer for lower torque and easy maintenance
- Triple stem seals in sizes over 2"

SEALING

- Glass filled pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B. 1.20.1 female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) up to 2", 450 PSI (30 bar) over 2", (150 WSP -10 bar all sizes) non-shock cold working pressure
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- *150 psig (10 bar) non-shock steam working pressure. Not suitable for throttling steam
- -40°F/+366°F (-40°C / +170°C)

WARNING: freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball and/or stem (1.4401 / AISI 316)
- Custom design
- Pure PTFE seals

APPROVED BY OR IN COMPLIANCE WITH

- Canadian standards Association (United States, Canada)
- Factory Mutual (United States)
- RoHS Compliant (EU)
- GOST-R (Russia)
- Underwriters Laboratories (United States, Canada):
 - Guide YSDT: LP-Gas shut-off valve
 - Guide YRBX: Flammable liquid shut-off valve
 - Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
 - Guide MHKZ: No. 6 oil at 250°F
- CRN-TSSA acc. to MSS SP110 (Canada)
- Kuwait Fire Service Directorate (Kuwait)
- Meeting WW-V-35C Federal U.S. Specification (United States)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS UP TO 2" SIZE

- Oval lockable handle up to 2", round over 2" **1**
- Patented locking device for valves up to 4" **2**
- Stem extension
- Lead free for safe drinking water (0.25% or less Pb)
- Stainless steel handle (1.4016 / AISI 430) **3**
- Stubby handle **4**
- T-handle **5**

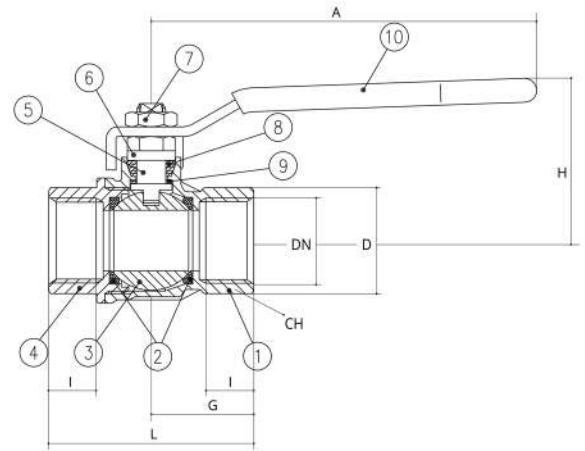


s.92 NPT XCES92 - 5466

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	Part description	Q.ty	Material
1	Unplated NPT body	1	CW617N
2	Seat	2	PTFE glass filled 5-15%
3	Chrome plated ball	1	CW617N
4	Unplated NPT end-cap	1	CW617N
5	Nickel plated stem packing gland design	1	CW617N
6	Nickel plated gland nut	1	CW617N
7	Geomet® nut	1	C4C (EN10263-2)
8	Packing gland seal	1	PTFE
9	Washer	1	PTFE carbon filled 25%
10	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)

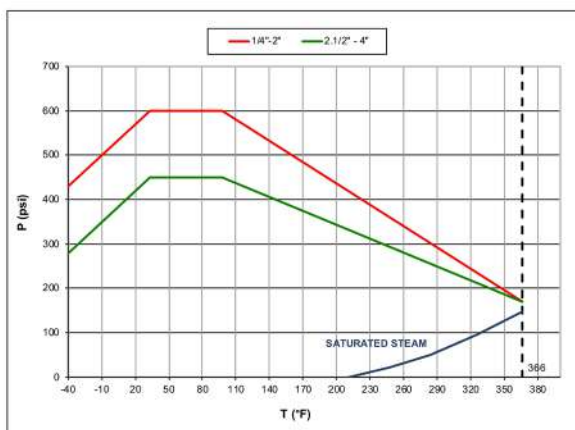


1 1/4"-2" hollow ball

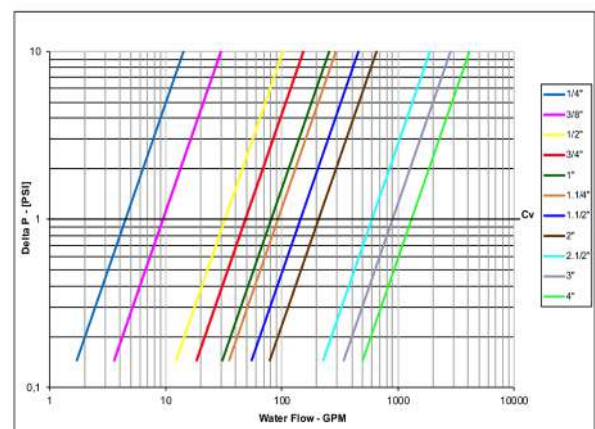
Code	S92B41	S92C41	S92D41	S92E41	S92F41	S92G41	S92H41	S92I41	S92L41	S92M41	S92N41
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
DN (inch)	0.315	0.374	0.591	0.748	0.945	1.181	1.496	1.890	2.520	2.992	3.937
I (inch)	0.472	0.472	0.61	0.669	0.827	0.906	0.906	1.043	1.26	1.377	1.633
L (inch)	1.772	1.772	2.323	2.520	3.189	3.661	4.016	4.764	6.142	6.969	8.504
G (inch)	0.886	0.886	1.161	1.260	1.594	1.831	2.008	2.382	3.071	3.484	4.252
A (inch)	3.228	3.228	3.937	4.724	4.724	6.22	6.22	6.22	10.039	10.039	10.039
H (inch)	1.563	1.563	1.695	1.988	2.153	2.988	3.236	3.5	5.197	5.512	6.063
CH (inch)	0.669	0.787	0.984	1.22	1.575	1.929	2.126	2.697	3.346	3.898	4.921
Cv (GPM)	4.5	9.5	32.3	48.5	80.9	92.4	144.4	206.8	596.2	896.5	1305.5

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.92 NPT M/F

Male/Female
1/2" - 2"
packing gland



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Pure PTFE adjustable packing gland and reinforced washer for lower torque and easy maintenance
- Triple stem seals in sizes over 2"

SEALING

- Glass filled pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 male by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) up to 2", 450 PSI (30 bar) over 2", (150 WSP -10 bar all sizes) non-shock cold working pressure
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- *150 psig (10 bar) non-shock steam working pressure. Not suitable for throttling steam
- -40°F/+366°F (-40°C / +185°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball and/or stem (1.4401 / AISI 316)
- Custom design
- Pure PTFE seals

APPROVED BY OR IN COMPLIANCE WITH

- Canadian standards Association (United States, Canada)
- Factory Mutual (United States)
- GOST-R (Russia)
- RoHS Compliant (EU)
- Meeting WW-V-35C Federal U.S. Specification (United States)
- Underwriters Laboratories (United States, Canada):
 - Guide YSDT: LP-Gas shut-off valve
 - Guide YRBX: Flammable liquid shut-off valve
 - Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
 - Guide MHKZ: No. 6 oil at 250°F

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS UP TO 2" SIZE

- Oval lockable handle up to 2", round over 2" ❶
- Patented locking device for valves up to 4" ❷
- Stem extension
- Stainless steel handle (1.4016 / AISI 430) ❸
- Stubby handle ❹
- T-handle ❺



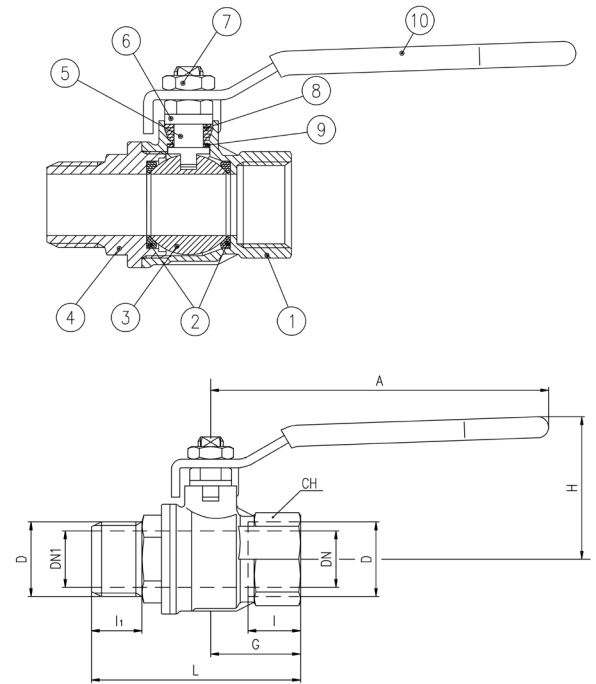
s.92 NPT M/F XCES92M - 5466

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	Part description	Q.ty	Material
1	Unplated body	1	CW617N
2	Seat	2	PTFE glass filled 5-15%
3	Chrome plated ball	1	CW617N
4	Unplated NPT end-cap	1	CW617N
5	Nickel plated stem packing gland design	1	CW617N
6	Nickel plated gland nut	1	CW617N
7	Geomet® nut	1	C4C (EN10263-2)
8	Packing gland seal	1	PTFE
9	Washer	1	PTFE carbon filled 25%

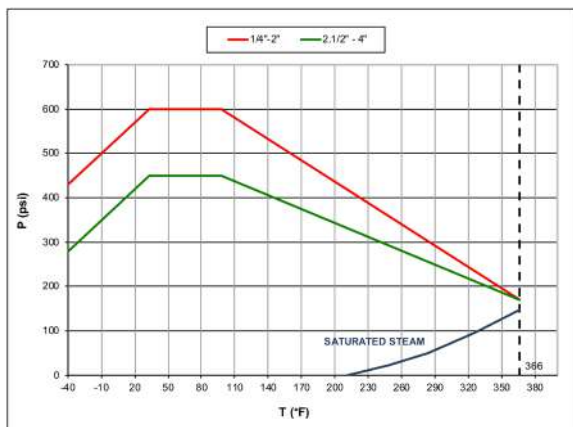
1 1/4"-2" hollow ball



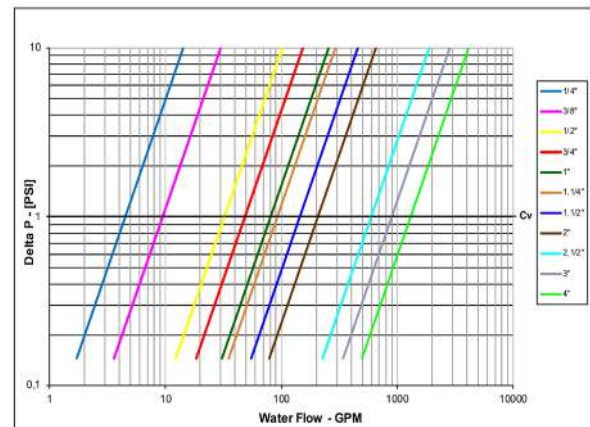
Code	S92B42	S92C42	S92D42	S92E42	S92F42	S92G42	S92H42	S92I42	S92L42	S92M42	S92N42
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
DN (inch)	0.315	0.374	0.591	0.748	0.945	1.181	1.496	1.890	2.520	2.992	3.937
DN1 (inch)	-	-	-	-	-	-	-	-	2.205	2.756	3.701
I (inch)	0.472	0.472	0.61	0.669	0.827	0.906	0.906	1.043	1.26	1.378	1.634
I1 (inch)	0.531	0.531	0.65	0.709	0.866	0.945	0.945	1.083	1.457	1.555	1.732
L (inch)	2.224	2.224	2.756	2.992	3.642	4.173	4.449	5.236	7.106	8.051	9.37
G (inch)	0.886	0.886	1.161	1.260	1.594	1.831	2.008	2.382	3.071	3.484	4.252
A (inch)	3.228	3.228	3.937	4.724	4.724	6.22	6.22	6.22	10.039	10.039	10.039
H (inch)	1.563	1.563	1.695	1.988	2.153	2.988	3.236	3.5	5.197	5.512	6.063
CH (inch)	0.669	0.787	0.984	1.22	1.575	1.929	2.126	2.697	3.346	3.898	4.921
Cv (GPM)	4.5	9.5	32.3	48.5	80.9	92.4	144.4	206.8	596.2	896.5	1305.5

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part4. Stem configuration of valves over 2" is slightly different.

PRESSURE-TEMPERATURE CHART



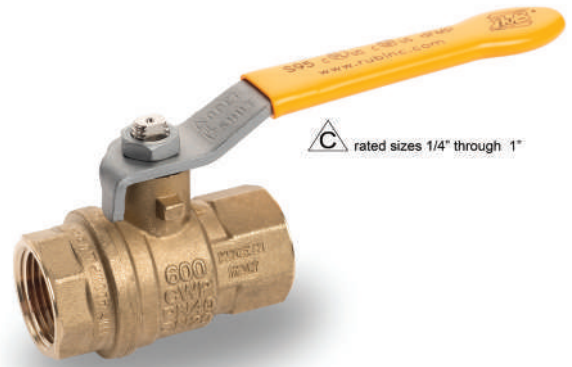
PRESSURE DROP CHART





s.95 NPT

Female/Female
1/4" - 4"



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical

load

- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) up to 2", 450 PSI (30 bar) over 2" non-shock cold working pressure
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- -40°F/+350°F (-40°C / +170°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design
- Special configuration for industrial oxygen application

APPROVED BY OR IN COMPLIANCE WITH

- Canadian standards Association (United States, Canada)
- Factory Mutual (United States)
- RoHS Compliant (EU)
- GOST-R (Russia)
- Underwriters Laboratories (United States, Canada):
 - Guide YSDT: LP-Gas shut-off valve
 - Guide YRBX: Flammable liquid shut-off valve
 - Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
 - Guide MHKZ: No. 6 oil at 250°F
- CRN-TSSA acc. to MSS SP110 (Canada)
- Meeting WW-V-35C Federal U.S. Specification (United States)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS UP TO 2" SIZE

- Stem extension
- Oval lockable handle up to 2", round over 2" ①
- **RuB** memory stop designed to be installed with our stubby handle ②
- Stainless steel handle (1.4016 / AISI 430) ③
- Patented locking device for valves up to 4"
- Stubby handle ④
- T-handle ⑤

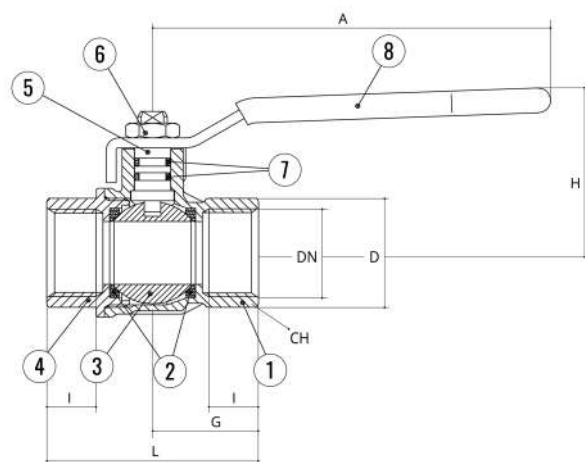


s.95 NPT XCES95 - 5466

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Part description		Q.ty	Material
1	Unplated NPT body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated NPT end-cap	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)

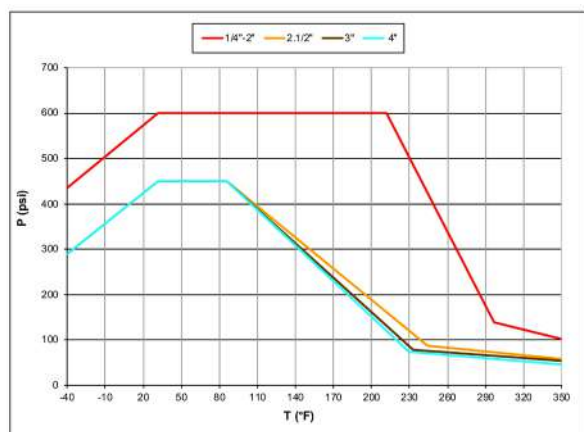


1 1/4"-2" hollow ball

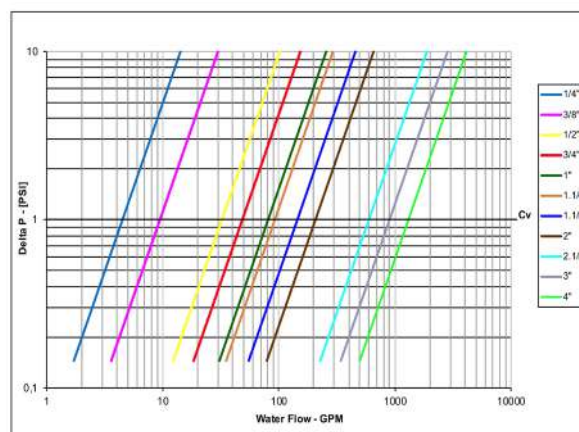
Code	S95B41	S95C41	S95D41	S95E41	S95F41	S95G41	S95H41	S95I41	S95L41	S95M41	S95N41
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
DN (inch)	0.315	0.374	0.591	0.748	0.945	1.181	1.496	1.890	2.520	2.992	3.937
I (inch)	0.472	0.472	0.610	0.669	0.827	0.906	0.906	1.043	1.260	1.377	1.633
L (inch)	1.772	1.772	2.323	2.520	3.189	3.661	4.016	4.764	6.142	6.969	8.504
G (inch)	0.886	0.886	1.162	1.260	1.594	1.831	2.008	2.382	3.071	3.484	4.252
A (inch)	3.228	3.228	3.937	4.724	4.724	6.220	6.220	6.220	10.039	10.039	10.039
H (inch)	1.480	1.480	1.679	1.956	2.114	2.858	3.094	3.370	5.197	5.512	6.063
CH (inch)	0.669	0.787	0.984	1.220	1.575	1.929	2.126	2.697	3.346	3.898	4.921
Cv (GPM)	4.5	9.5	32.3	48.5	80.9	92.4	144.4	206.8	596.2	896.5	1305.5

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.95 NPT T-handle

Female/Female
1/4" - 2"



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Aluminium T-handle, painted yellow up to 1", Geomet® steel T-handle with PVC dip coating for 1 1/4" - 2" sizes
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) non-shock cold working pressure
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- -40°F/+350°F (-40°C / +170°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design
- Special configuration for industrial oxygen application

APPROVED BY OR IN COMPLIANCE WITH

- Canadian standards Association (United States, Canada)
- Factory Mutual (United States)
- RoHS Compliant (EU)
- GOST-R (Russia)
- Underwriters Laboratories (United States, Canada):
 - Guide YSDT: LP-Gas shut-off valve
 - Guide YRBX: Flammable liquid shut-off valve
 - Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
 - Guide MHKZ: No. 6 oil at 250°F
- CRN-TSSA acc. to MSS SP110 (Canada)
- Meeting WW-V-35C Federal U.S. Specification (United States)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Stem extension
- Oval lockable handle ①
- **RuB** memory stop designed to be installed with our stubby handle ②
- Geomet® carbon steel handle with thick PVC dip coating
- Stainless steel handle (1.4016 / AISI 430) ③
- Patented locking device
- Stubby handle ④

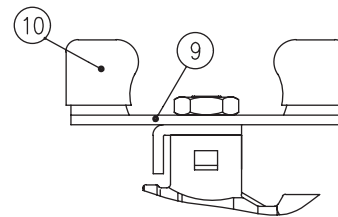
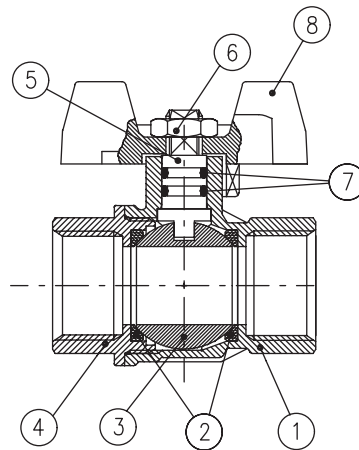


s.95 NPT T-handle XCES9546 - 5466

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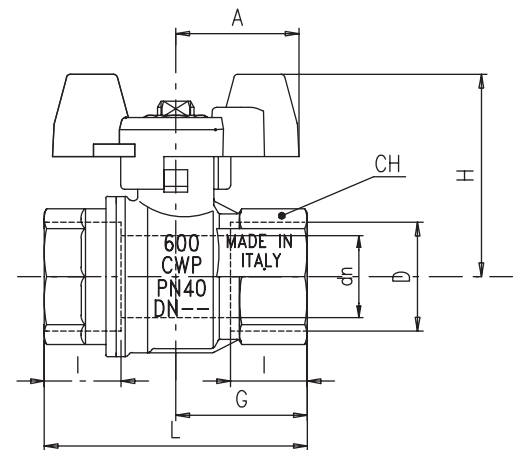
	Part description	Q.ty	Material
1	Unplated NPT body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated NPT end-cap	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Yellow T-handle	1	EN AC-46100 (EN1676)
9	Geomet® steel T-handle	1	DD01 (EN10111)
10	Yellow dipped coating	2	PVC



T-handle configuration for 1 1/4" - 2"

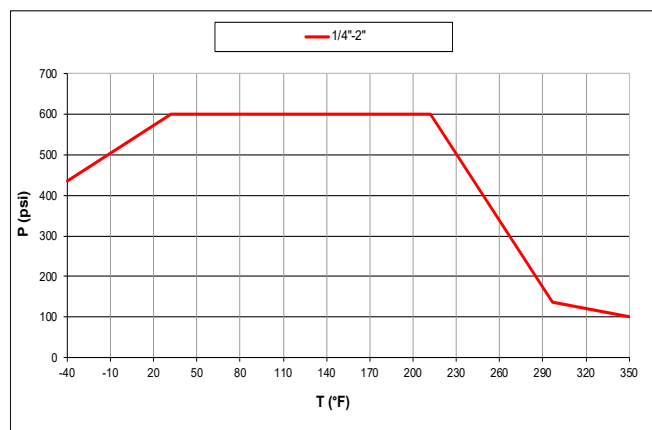
1 1/4"-2" hollow ball

Code	S95B46	S95C46	S95D46	S95E46	S95F46	S95G46
D (inch)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"
DN (mm)	0.315	0.374	0.591	0.748	0.945	1.181
I (mm)	0.472	0.472	0.610	0.669	0.827	0.906
L (mm)	1.772	1.772	2.323	2.520	3.189	3.661
G (mm)	0.886	0.886	1.131	1.260	1.594	1.831
A (mm)	0.984	0.984	0.984	1.181	1.181	2.244
H (mm)	1.535	1.535	1.692	1.850	2.008	3.326
CH (mm)	0.669	0.787	0.984	1.220	1.575	1.929
Cv (GPM)	4.5	9.5	32.3	48.5	80.9	92.4

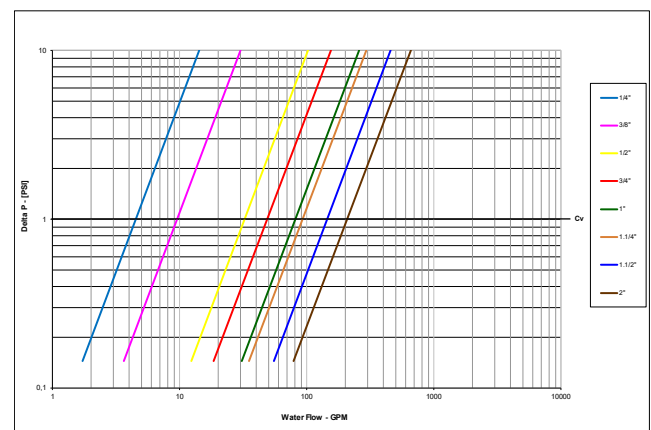


DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.95 NPT nickel plated

Female/Female
1/4" - 4"



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) up to 2", 450 PSI (30 bar) over 2" non-shock cold working pressure
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- -40°F/+350°F (-40°C / +170°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design
- Special configuration for industrial oxygen application

APPROVED BY OR IN COMPLIANCE WITH

- Canadian standards Association (United States, Canada)
- Factory Mutual (United States)
- RoHS Compliant (EU)
- GOST-R (Russia)
- Underwriters Laboratories (United States, Canada):
 - Guide YSDT: LP-Gas shut-off valve
 - Guide YRBX: Flammable liquid shut-off valve
 - Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
 - Guide MHKZ: No. 6 oil at 250°F

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS UP TO 2" SIZE

- Stem extension
- Oval lockable handle up to 2", round over 2" **1**
- **RuB** memory stop designed to be installed with our stubby handle **2**
- Stainless steel handle (1.4016 / AISI 430) **3**
- Patented locking device for valves up to 4"
- Stubby handle **4**
- T-handle **5**

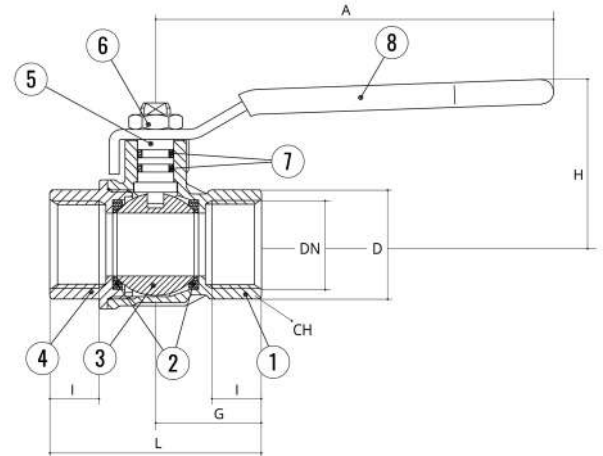


s.95 NPT NICKEL PLATED XCES95N - 5466

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Part description		Q.ty	Material
1	Nickel plated NPT body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated NPT end-cap	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)

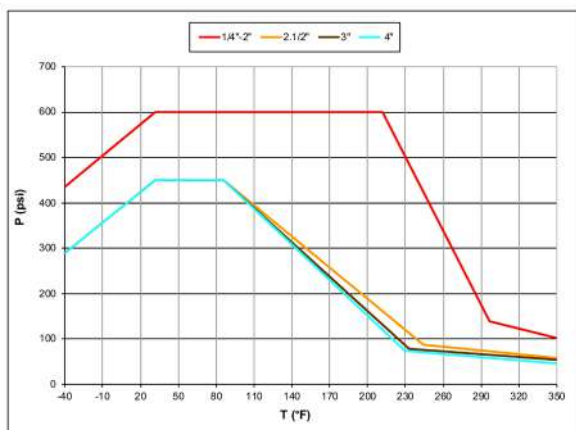


1 1/4"-2" hollow ball

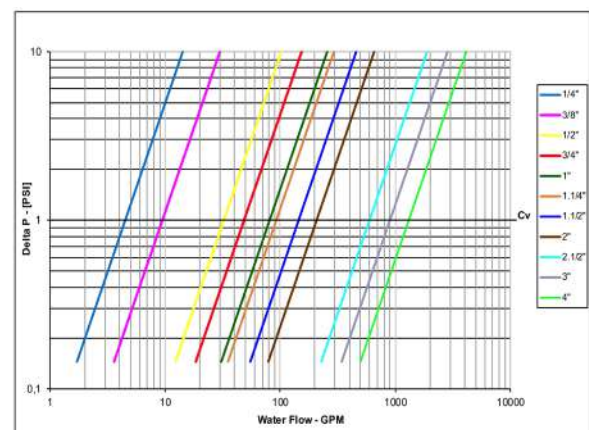
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D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
DN (inch)	0.315	0.374	0.591	0.748	0.945	1.181	1.496	1.890	2.520	2.992	3.937
I (inch)	0.472	0.472	0.610	0.669	0.827	0.906	0.906	1.043	1.260	1.377	1.633
L (inch)	1.772	1.772	2.323	2.520	3.189	3.661	4.016	4.764	6.142	6.969	8.504
G (inch)	0.886	0.886	1.161	1.260	1.594	1.831	2.008	2.382	3.071	3.484	4.252
A (inch)	3.228	3.228	3.937	4.724	4.724	6.220	6.220	6.220	10.039	10.039	10.039
H (inch)	1.480	1.480	1.679	1.956	2.114	2.858	3.094	3.370	5.197	5.512	6.063
CH (inch)	0.669	0.787	0.984	1.220	1.575	1.929	2.126	2.697	3.346	3.898	4.921
Cv (GPM)	4.5	9.5	32.3	48.5	80.9	92.4	144.4	206.8	596.2	896.5	1305.5

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.128A

**Female/FemalexF
3/4" Y-strainer**



QUALITY

- Suitable for gas, industrial, pneumatic and hydraulic installations

BODY

- Hot forged sand blasted, nickel plated brass body
- Stainless steel (1.4301 / AISI 304) filter
- Degree of filtration: 50µm

THREADS

- ISO 228/1 female by female parallel threads and inspection plug

WORKING PRESSURE & TEMPERATURE

- 6 bar non-shock cold working pressure
- -40°C to +60°C (-40°F to +140°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

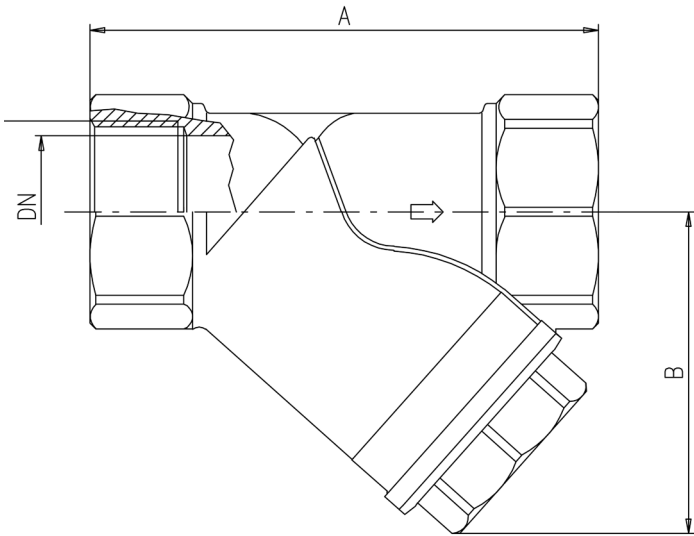
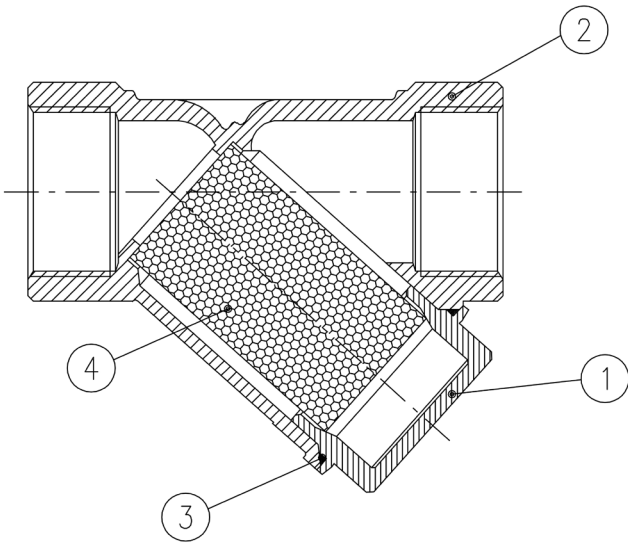
s.128A XCE128A - 5466

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Part description		Q.ty	Material
1	Nickel plated end-cap	1	CW617N
2	Nickel plated body	1	CW617N
3	O-ring	1	NBR
4	Stainless steel strainer 50µm	1	1.4301 / AISI 304

D (inch)	3/4
A (mm)	70
B (mm)	48
DN	20





s.195 NPT

Female/Female
3/8" - 1" standard port gas cock



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stresses at stem
- Chrome plated brass ball for longer life

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

FLOW

- Standard port for compact design

HANDLE

- Aluminum wedge handle enameled red
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 450 PSI (30 bar) non-shock cold working pressure
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- -40°F to +350°F (-40°C / +170°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

APPROVED BY OR IN COMPLIANCE WITH

- Underwriters Laboratories (United States, Canada):
 - Guide YSDT: LP-Gas shut-off valve
 - Guide YRBX: Flammable liquid shut-off valve
 - Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
 - Guide MHKZ: No. 6 oil at 250°F
- GOST-R (Russia)
- Canadian standards Association (United States, Canada)
- RoHS Complaint (Russia)
- Meeting WW-V-35C Federal U.S. Specification (United States)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Stem extension
- T-handle
- Stainless steel handle (1.4016 / AISI 430)
- 3/8" through 1" NPT female by NPT female (suffix 41)
- 3/8", 1/2" and 5/8" flare by flare (suffix 30)
- 1/2" NPT female by 1/2" flare (suffix 31)
- 1/2" NPT male by 1/2" flare (suffix 34)
- 1/2" NPT male by 3/8" flare (suffix 34)
- 1/2" NPT female by 3/8" flare (suffix 33)
- 1/2" flare by 3/8" flare (suffix 32)
- 1/8" NPT side tap for some versions/ sizes

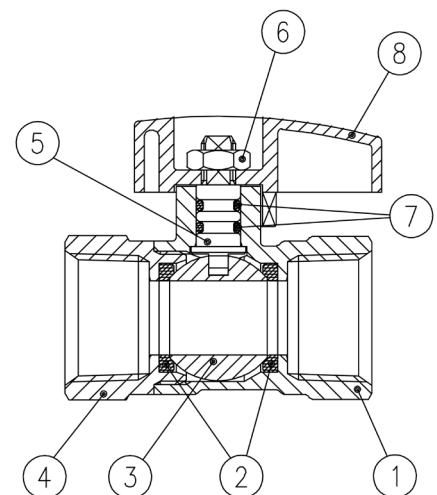


s.195 NPT XCE195 - 5466

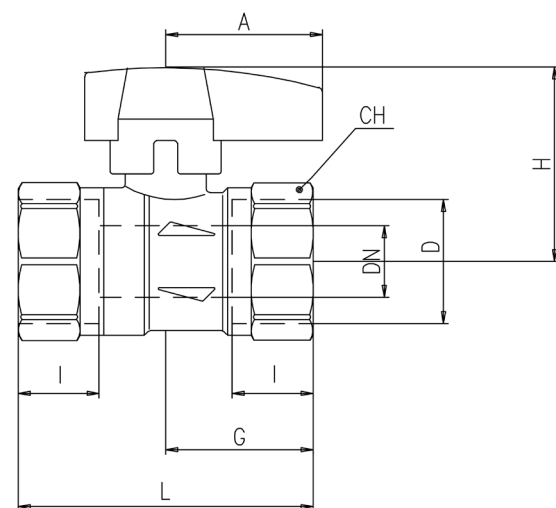
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	Part description	Q.ty	Material
1	Sand blasted unplated body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Sand blasted unplated end-cap	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Red T-handle	1	EN AC- 46100

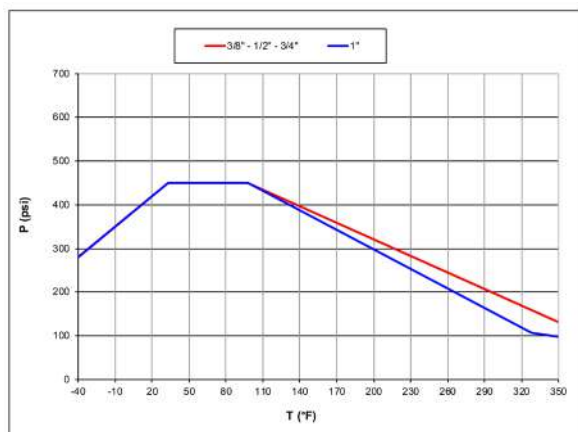


Code	195C41	195D41	195E41	195F41
D (inch)	3/8	1/2	3/4	1
DN (inch)	0.374	0.453	0.590	0.748
I (inch)	0.472	0.610	0.669	0.827
L (inch)	1.772	2.126	2.441	2.835
G (inch)	0.886	1.043	1.220	1.417
A (inch)	1.299	1.299	1.299	1.575
H (inch)	1.437	1.535	1.614	1.850
CH (inch)	0.787	0.984	1.220	1.496
Cv (GPM)	9.5	8.3	15.0	22.0

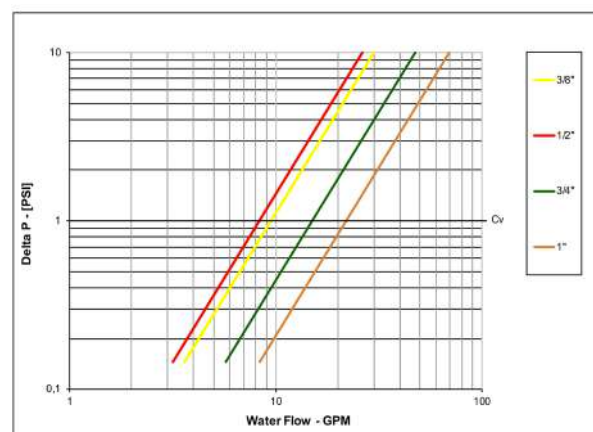


DN shows the nominal flow diameter.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.195 & flare

**Female/Female
flare 37°
by solder end 1/2" – 3/4", standard port**



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stresses at stem
- Chrome plated brass ball for longer life

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Pure PTFE adjustable packing gland and reinforced washer for lower torque and easy maintenance

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- 1/2" flare 37° by 1/2" solder end
- 3/4" flare 37° by 3/4" solder end

FLOW

- Standard port for compact design

HANDLE

- Aluminum T-handle enameled red
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 600 PSI (for solder joints rating see table 1) non-shock cold working pressure
- -4°F to +350°F (for solder joints rating see table 1)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

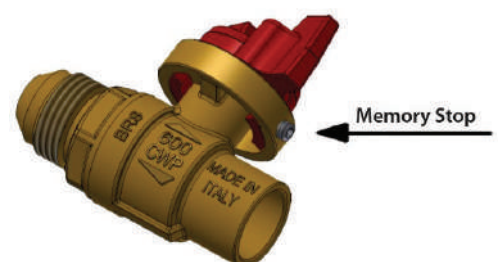
APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- Canadian standards Association (United States, Canada)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Stainless steel handle (1.4016 / AISI 430)
 - Geomet® carbon steel handle with thick PVC dip coating.
- Handle coating offers both thermal and electrical protection
- Stubby handle
 - Upon request
 - Memory stop

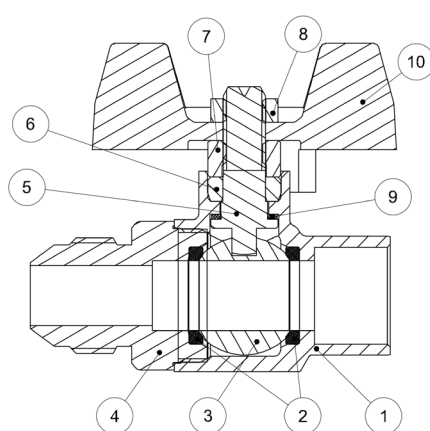


s.195 NPT & FLARE XCE19540 - 5466

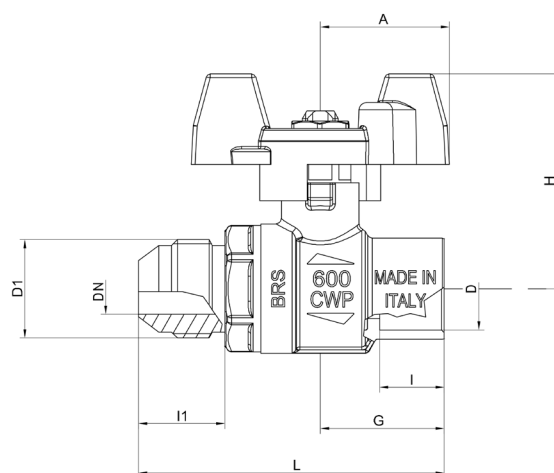
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Part description	Q.ty	Material
1 Sand blasted unplated body	1	CW617N
2 Seat	2	PTFE
3 Chrome plated ball	1	CW617N
4 Sand blasted unplated end-cap	1	CW617N
5 Nickel plated stem packing gland design	1	CW617N
6 Packing gland seal	1	PTFE
7 Nickel plated gland nut	1	CW617N
8 Geomet® nut	1	C4C (EN10263-2)
9 Washer	1	PTFE carbon filled 25%
10 Red T-handle	1	EN AC- 46100



Code	195D40	195E40
D (inch)	0.63	0.877
D1 (inch)	3/4-16 UNF 2A	1.1/16-12 UN 2A
DN (inch)	0.39	0.61
I (inch)	0.49	0.748
I1 (inch)	0.66	0.862
L (inch)	2.33	3.031
G (inch)	0.94	1.319
A (inch)	0.98	0.98
H (inch)	1.63	1.705
Cv (GPM)	5.8	14.5



DN shows the nominal flow diameter.

TABLE 1 PRESSURE - TEMPERATURE RATINGS

Joining material	Melting range degrees		Working temperature degrees		Maximum working gauge pressure					
					Size 1/8" - 1"		Size 1 1/4" - 2"		Size 2 1/2" - 4"	
	°F	°C	°F	°C	PSI	kPa	PSI	kPa	PSI	kPa
50-50 tin-lead solder* ASTM B32 alloy grade 50 A	361/421	185/215	0/+100	-18/+38	200	1400	176	1200	150	1050
			0/+150	-18/+66	150	1050	125	850	100	700
			0/+200	-18/+93	100	700	90	600	75	500
			0/+250	-18/+121	85	600	75	500	50	350
95-5 tin-antimony solder ASTM B32 alloy grade 95TA	450/464	230/240	0/+100	-18/+38	500**	3500**	400**	2800**	300**	2100**
			0/+150	-18/+66	400**	2800**	350**	2400**	275**	2000**
			0/+200	-18/+93	300**	2100**	250**	1700**	200	1400
			0/+250	-18/+121	200	1400	175	1200	150	1050

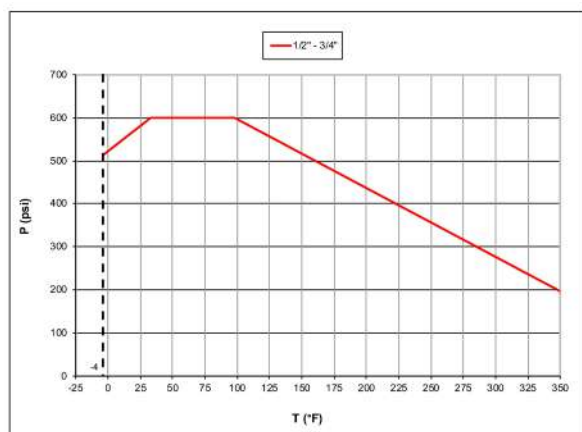
Note:

Above stated limits are not imposed by the valve, but by the strength of the soldering joint according to ASME B16.22.

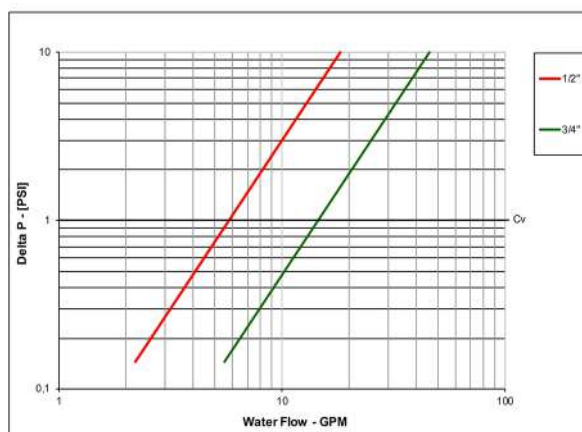
* This alloy contains more than 0,2% lead and, according to certain specifications, cannot be used for potable water or other foods.

** Soldered copper tube joints have been tested at 230 PSI (1600 kPa) in accordance with ISO 2016

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART



FIREFIGHTING

In firefighting systems, reliability is non-negotiable. RuB ball valves are engineered to perform flawlessly under critical conditions, ensuring seamless operation when emergencies strike. Designed for low-frequency use and high-stakes scenarios, they meet the rigorous demands of fire protection systems, offering durability and precision for professionals who prioritize safety and performance.



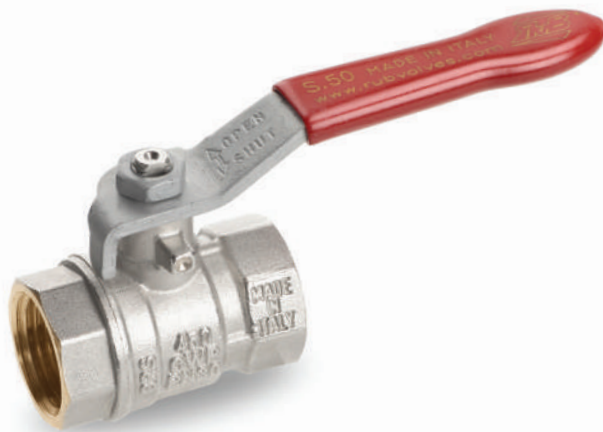


s.50 1/4" - 2" standard port	Page 230
s.50 MF 1/4" - 2" standard port	Page 232
s.6400 1/2" - 4", EN 10226-1, ISO 5211 heavy duty	Page 234
s.7300L 3-way, lever, 4 seats, T-port 1/2" - 2" EN 10226-1	Page 236
s.7600L 3-way, lever, 2 seats, L-port (diverting) 1/2" - 2" EN 10226-1	Page 240
s.84 EN331 1/4" - 4", EN 10226-1	Page 242
s.84 EN331 MF 1/4" - 4", EN 10226-1	Page 244
s.90 1/4" - 4", ISO228	Page 246
s.90 MF 1/4" - 4", ISO228	Page 248
s.90 MM 1/4" - 4", ISO228	Page 250
s.92 NPT 1/4" - 4" packing gland	Page 252
s.92 NPT MF 1/2" - 2" packing gland	Page 254
s.95 NPT 1/4" - 4"	Page 256
s.128 1/4"-4" ISO228, Y-strainer	Page 258



s.50

Female/Female
1/4" - 2"



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stress at stem
- Chrome plated brass ball for longer life with rinse hole (the rinse hole is expected from 1/2" up to 2" sizes)

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel female by female threads

FLOW

- Full port to DIN 3357 for 1/4" and 3/8" sizes, nominal port for compact design from 1/2" to 2" sizes.

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) up to 3/8", 30 bar (450 PSI) over 3/8" non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- GOST-R (Russia)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle ¹
- **RuB** memory stop is designed to be installed with our stubby handle ²
- Stainless steel handle (1.4016 / AISI 430) ³
- T-handle ⁴
- Stem extension
- Patented locking device
- Stubby handle



s.50 XCES50 - 5466

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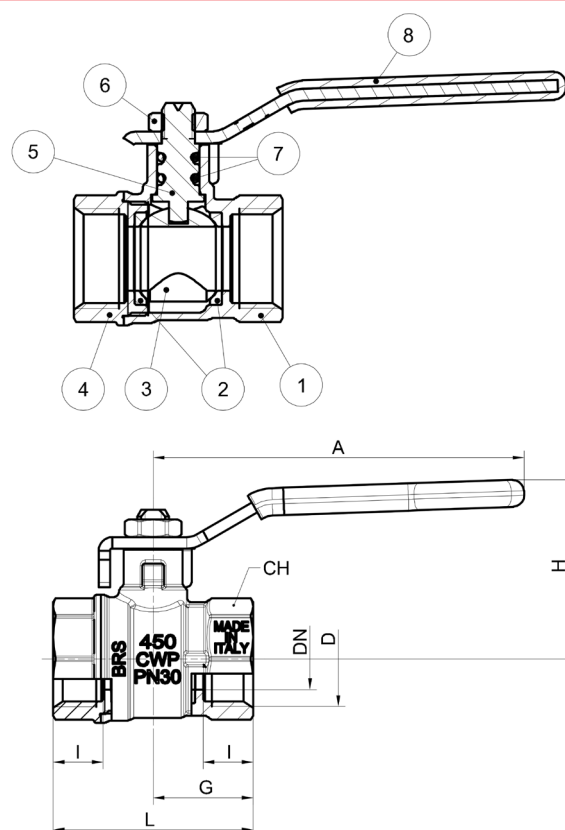


FIREFIGHTING

	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole (read rinse hole on sizes from 1/2" up to 2")	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	CB4FF (EN10263-2)
7	O-Ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/4"-2" hollow ball

NOTE: drawings refer to 1/2" up to 2" sizes

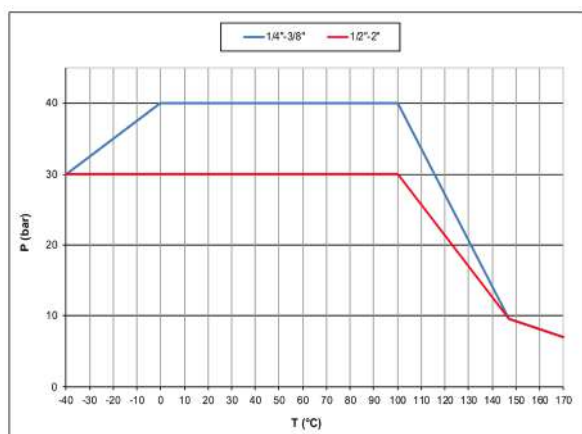


Code	S50B00	S50C00	S50D00	S50E00	S50F00	S50G00	S50H00	S50I00
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	8	10	13,5	18	22,5	28,5	36	45
I (mm)	9	9	11	12	14	15	17	19
L (mm)	39	39	44	52	61,5	73	86	101
G (mm)	19,5	19,5	22	26	30,7	36,5	43	50,5
A (mm)	82	82	82	100	120	120	158	158
H (mm)	38	38	39,5	43,5	52	57	75,5	82,5
CH (mm)	17	20	25	31	38	48	54	66
Kv (m³/h)	3,9	8,2	13,5	25	39	56	92	129

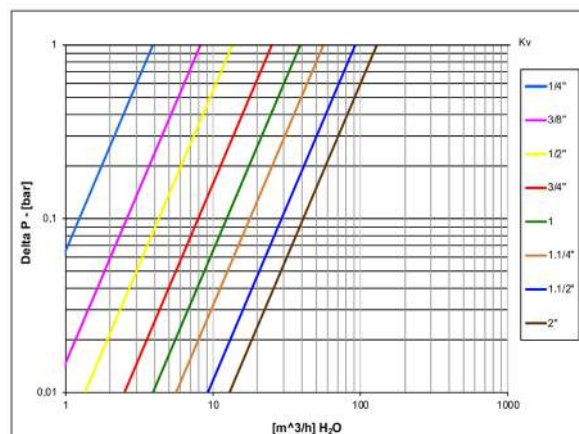
DN shows actual flow diameter. Configuration of valves 1/4" and 3/8" sizes is slightly different.

Ball valves are marked CE on handle from 1 1/4" to 2" as follow: CE XXCODEXX Cat. I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.50 M/F

Male/Female
1/2" - 2"



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stress at stem
- Chrome plated brass ball for longer life with rinse hole

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel male by female threads

FLOW

- Nominal port for compact design from 1/2" to 2" sizes.

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 bar (450 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- GOST-R (Russia)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle ①
- Patented locking device ②
- Stem extension
- Stainless steel handle (1.4016 / AISI 430) ③
- T-handle ④
- Stubby handle
- **RuB** memory stop is designed to be installed with our stubby handle



s.50 MF XCES50M - 5466

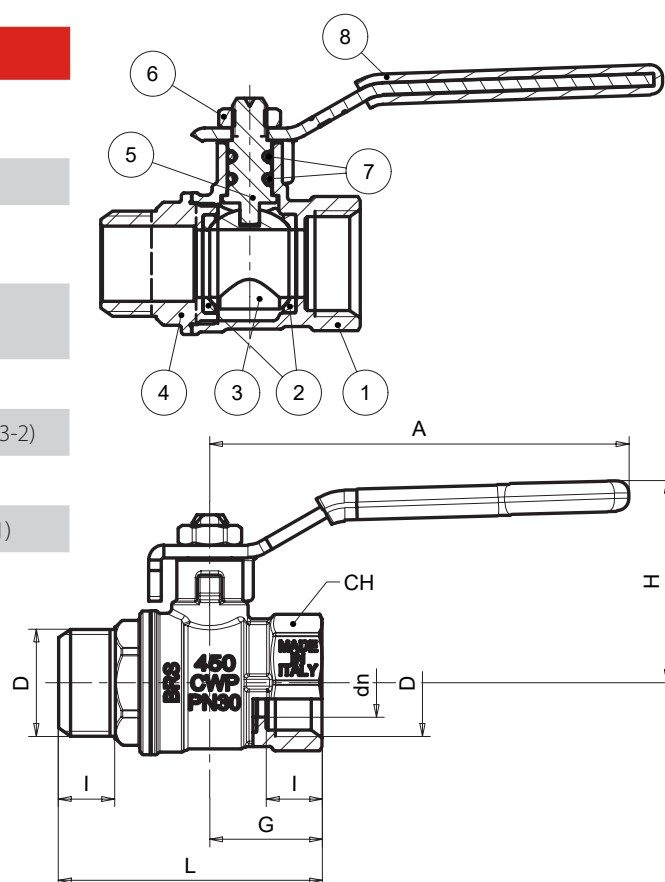
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FIREFIGHTING

	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole (read rinse hole on sizes from 1/2" up to 2")	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	CB4FF (EN10263-2)
7	O-Ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

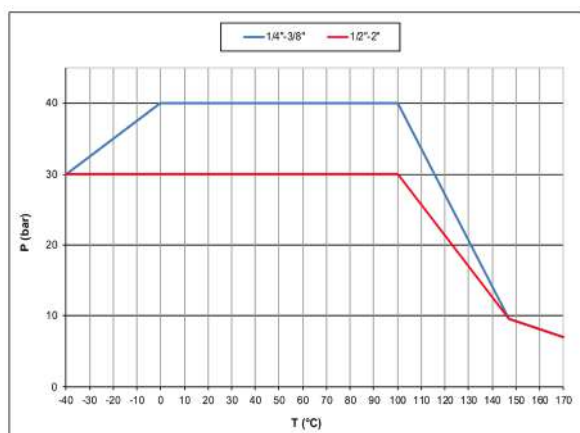
1 1/4"-2" hollow ball



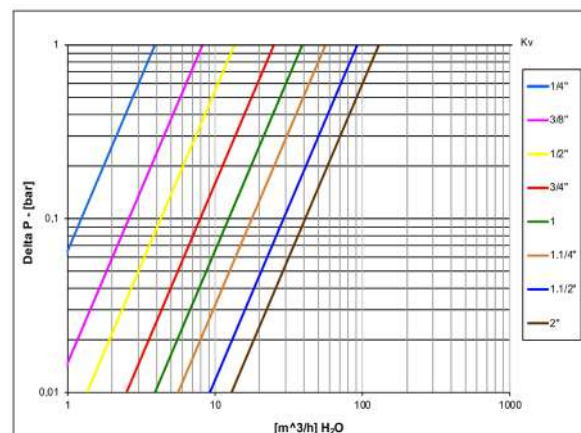
Code	S50D20	S50E20	S50F20	S50G20	S50H20	S50I20
Size (inch)	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	15	20	25	32	40	50
I (mm)	11	12	14	15	17	19
L (mm)	51.5	60.5	70	82	95	111.5
G (mm)	22	26	30.7	36.5	43	50.5
A (mm)	82	100	120	120	158	158
H (mm)	39.5	43.5	52	57	75.5	82.5
CH (mm)	25	31	38	48	54	66
Kv (m3/h)	13.5	25	39	56	92	129

DN shows actual flow diameter. Ball valves are marked CE on handle from 1 1/4" to 2" as follow: CE XXCODEXX Cat. I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.6400

Female/Female
1/2" - 4"
EN 10226-1
ISO 5211, heavy duty



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life

BODY

- Hot forged sand blasted, nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

- 100% full port for maximum flow

OPERATING MECHANISM

- Integrated sturdy ISO 5211 flange allows direct mounting of electric and pneumatic actuators, with no bracket or coupling required. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) up to 2", 30 bar (450 PSI) over 2" non-shock cold working pressure
- For use with dangerous fluids pressure rating is 5 bar
- -20°C to +170°C (-4°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve
- For use with dangerous fluids temperature rating is -20°C +60°C

UPON REQUEST

- Custom design

PED DIRECTIVE

- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by ICIM (0425)

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- Water Regulations Advisory Scheme (United Kingdom)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Configuration for use with slurries or liquid bearing abrasive particles
- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact power electric actuator for some sizes
- Manual lockable handle



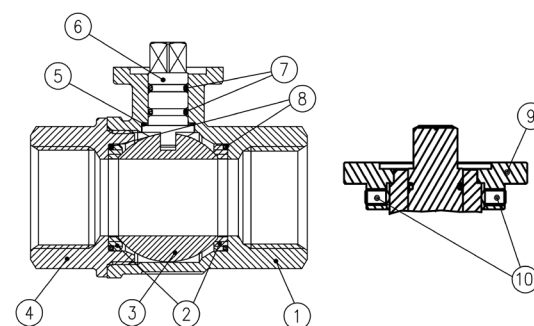
s.6400 XCES6400 - 5466

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FIREFIGHTING

Part description		Q.ty	Material
1	Nickel plated body	1	CW617N
2	Ball seat	2	PTFE graphite filled 15%
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap	1	CW617N
5	Washer	1	PTFE carbon filled 25%
6	Nickel plated stem O-ring design	1	CW617N
7	O-Ring	2	FPM
8	O-Ring	2	FPM
9	Black anodized flange (only from 2 1/2" to 4")	1	Aluminum
10	Grub Screw (only from 2 1/2" to 4")	2	CB4FF

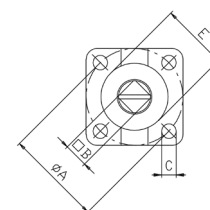
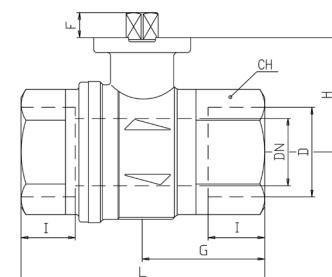


Valves configuration up to 2"

Valve ball seats and stem configuration of valves over 2" is different.

Compliant to CE 2014/68/UE product Equipment category III Module B+D

Code	S64D00	S64E00	S64F00	S64G00	S64H00	S64I00	S84L00AM	S84M00AM	S84N00AM
D (Size)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (mm)	15	20	25	32	40	50	65	80	100
I (mm)	15,5	18	21	23	24,5	26,5	32	35	41,5
L (mm)	75	80	90	110	120	140	156	177	216
G (mm)	30,5	37	45,5	52	59	67,5	78	88,5	108
H (mm)	31	38,5	42,5	55,5	62	69	89	96	111
CH (mm)	27	32	41	50	55	70	85	99	125
ØA (mm)	36	36	36	36	50	50	70	70	70
□B (mm)	9	9	9	9	11	11	17	17	17
C (mm)	5,6	5,6	5,6	5,6	6,6	6,6	8,5	8,5	8,5
E (mm)	25	25	25	25	35	35	55	55	55
F (mm)	7,5	8,5	8,5	8,5	10	10	14,5	18	18
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03	F03	F05	F05	F07	F07	F07
Kv (m³/h)	28	60	100	155	245	290	516	770	1120

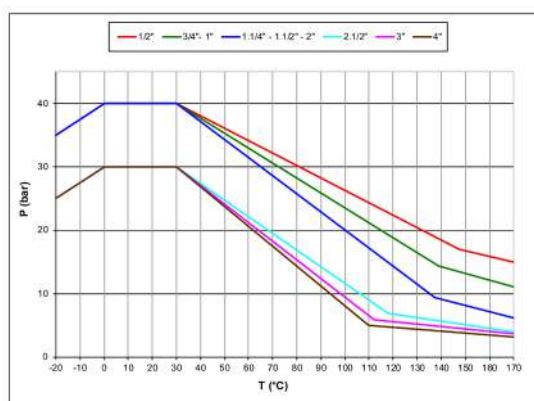


Ball valves are marked CE on end-cap from 1 1/4" to 4" as follow:
CE 0425 cat IIIB+D PS: 5 GAS TS1:-20°C TS2:+60°C

TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0+15 bar		40 bar (30 bar over 2")	
Valve size	to open	to close	to open	to close
1/2"	2,8	1,7	2,8	1,7
3/4"	3,8	2,3	3,8	2,3
1"	7,1	4,2	7,1	4,2
1 1/4"	11,7	12,6	13,6	12,6
1 1/2"	24,9	20,3	30,9	20,3
2"	29,6	25,1	37	25,1
2 1/2"	42	42	105	105
3"	102	102	120	120
4"	186	186	225	225

PRESSURE-TEMPERATURE CHART

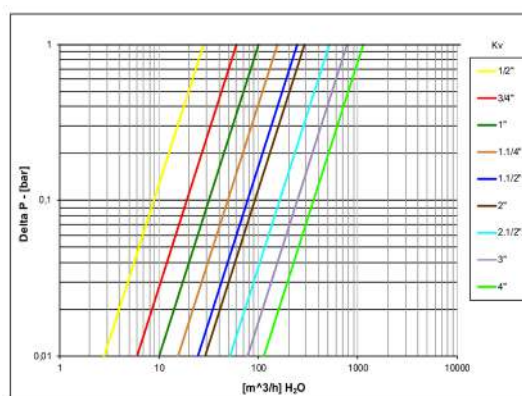


TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media. If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE DROP CHART





s.7300L

3-way, lever, 4 seats, T-port

Female/Female/Female
1/2" - 2"
EN 10226-1



The s.7300L series has a ball seal at every port, and offers a wide variety of possible flow configurations. Positive shut-off can be achieved at any of the exiting ports. By specifying the appropriate ball port configuration, the T-port design allows flow direction to be adjusted for virtually any situation and is ideal for mixing applications. Our s.73 multi-port valves can reduce the number of valves required in piping systems and can significantly lower overall costs by replacing two or three conventional 2-way valves, eliminating excess fittings, saving space and simplifying automation.



QUALITY

- Electronic 100% seal test guaranteed
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 /DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way T-port design for flow mixing

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design
- Four seats design for mixing of various fluids in the system

THREADS

- EN 10226-1, ISO 228 parallel female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 20 bar (300 PSI) non-shock cold working pressure
- -20°C to +150°C (-4°F to +302°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design
- Stainless steel stem
- Configurations with 4 seats & L-port (s.7200L) or 2 seats & L-port (s.7600L)

PED DIRECTIVE

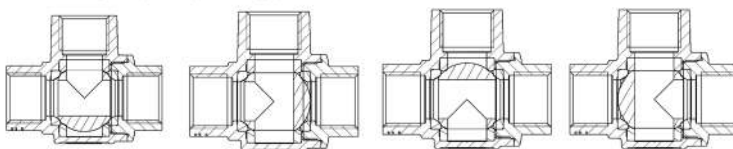
- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

s73 3-way "T" port operating positions



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- S.7300 without handle actuator ready
- Various actuator linkage kit

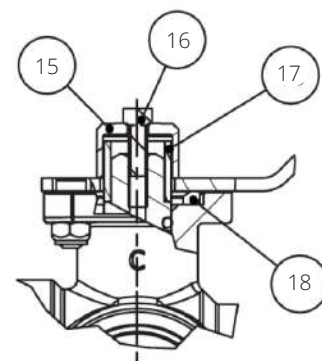
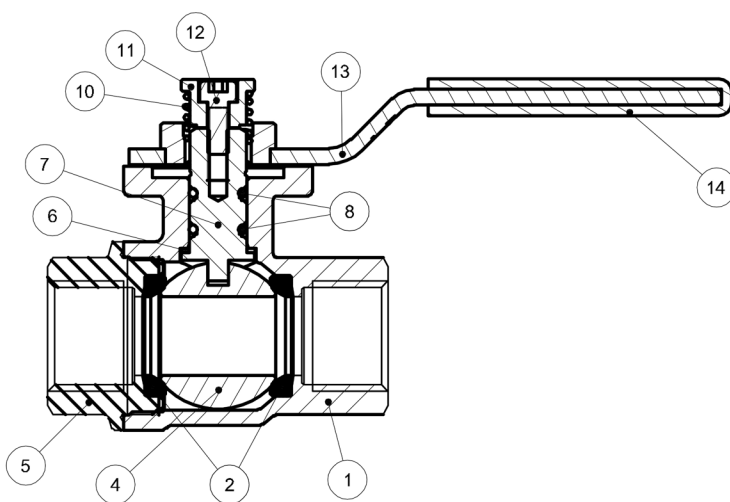


s.7300L XCES7300L - 5466

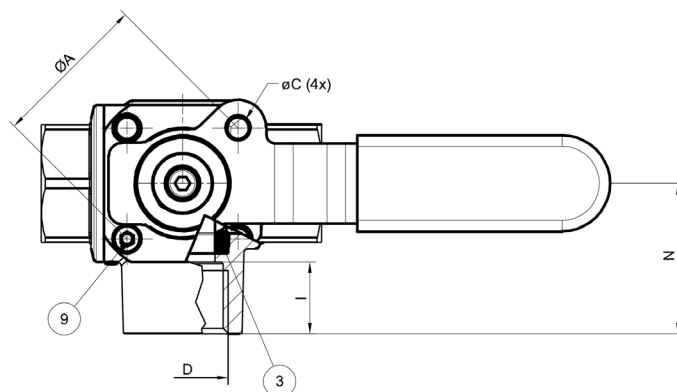
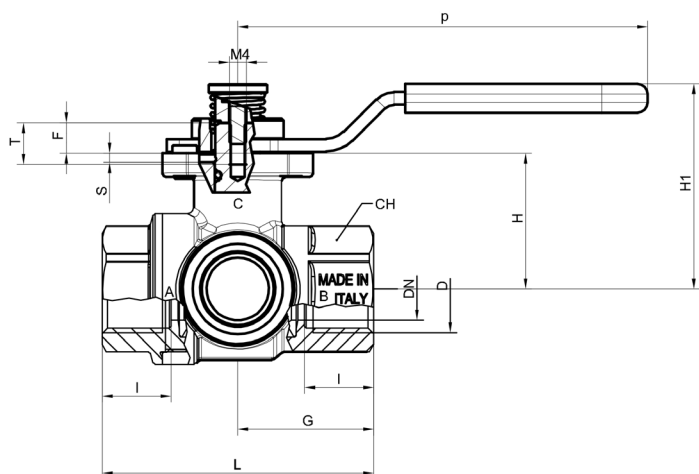
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	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Seat	2	PTFE
4	Chrome plated ball	1	CW617N
5	Nickel plated end cap (external nickel plated, unplated inside)	1	CW617N
6	Washer	1	PTFE carbon filled 25%
7	Nickel plated stem O-ring design	1	CW617N
8	O-Ring	2	FPM
9	Screw handle stop	1	CW617N
10	Spring	1	1.4310 / AISI 302
11	Unplated spring bushing	1	CW617N
12	Stainless steel screw	1	1.4301 / AISI 304
13	Geomet® plated steel handle	1	DD11 (EN10111)
14	Black dipped coating	1	PVC
15	Unplated cap	1	CW614N
16	Stainless steel Hexagonal screw	1	1.4301 / AISI304
17	Square adapter 11-14 (only for 1 1/4" size)	1	Steel
18	Washer	1	PTFE



Code	S73D00L	S73E00L	S73F00L	S73G00L	S73H00L	S73I00L
Size (inch)	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	15	20	25	30.4	38	48
I (mm)	16.5	19	22.5	25	26	29
L (mm)	65	79	92.5	109.5	126	150
G (mm)	32.5	39.5	46.5	55	63	75
H (mm)	32.5	39.5	42.5	56	62.5	72
N (mm)	34.5	42	49.5	60	69	82
ØA (mm)	36	36	36	50	50	50
ØC (mm)	Ø5.6	Ø5.6	Ø5.6	Ø6.6	Ø6.6	Ø6.6
p (mm)	103	103	103	145	145	145
H1 (mm)	49	56	59	79.3	85.5	93.4
S (mm)	2.2	2.2	2.2	3.2	3.2	3.2
T (mm)	10	10	10	14	14	14
F (mm)	7.3	8.3	8.3	14.5	14.5	14.5
CH (mm)	27	32	41	50	55	70
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03	F05	F05	F05
Kv (m³/h) straight pattern	9.7	28.2	43.3	57.0	94.5	161.0
Kv (m³/h) 90° pattern	5.3	11.6	16.8	26.7	43.3	69.2



TORQUE FOR ACTUATOR SIZING N.M

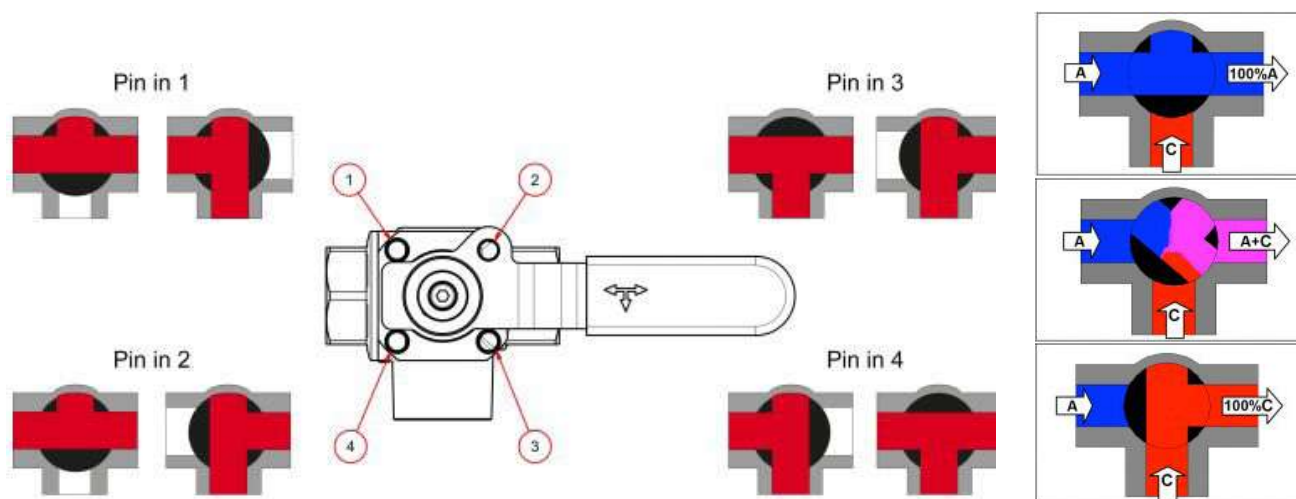
Delta P -->	0÷16 bar	
Valve size	to open	to close
1/2"	10,5	10,5
3/4"	13	13
1"	29,5	29,5
1 1/4"	14	14
1 1/2"	23	23
2"	38	38

With the configuration of T-port a stop pin can be fixed in any position of the 4 provided in the flange (1, 2, 3 or 4) and the lever can be rotated freely through 90°, the flow assumes the directions indicated in the diagram; in case of need the lever can be pulled upwards and you can reach any of the four possible positions.

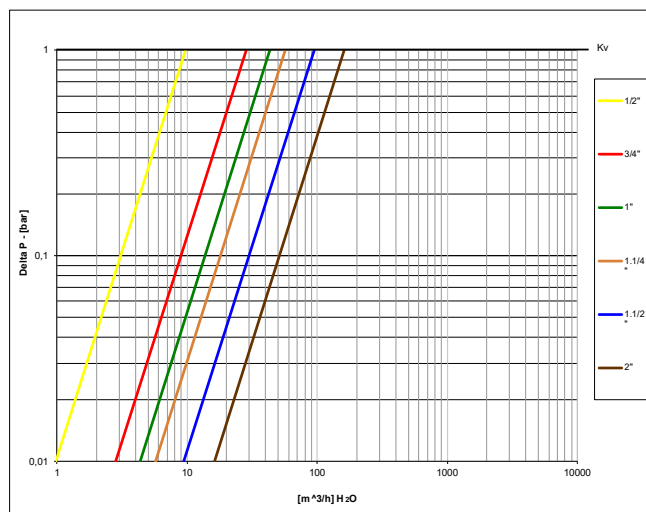
An alternative is to mount 2 pins in 2 near holes (e.g. 1 and 2). In this case, the valve does not assume a predetermined position but can be actuated just by pulling the lever towards the top.

The valve allows also to block the lever thanks to the addition of a lock on the lever's protrusion (in the drawing you can see position 2).

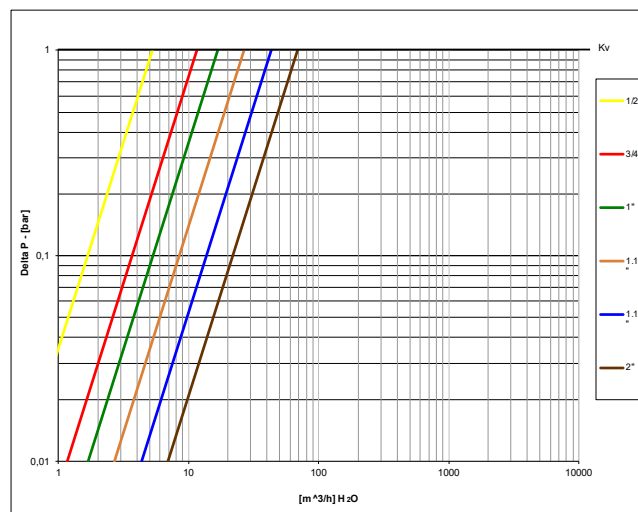
The mixing configuration is achieved by placing the pin in position 2. The flows to be mixed enter through A and C and exit through A+C.



PRESSURE DROP CHART (STRAIGHT FLOW PATTERN)



PRESSURE DROP CHART (90° FLOW PATTERN)





s.7600L

3-way, lever, 2 seats, L-port (diverting)

Female/Female/Female
1/2" - 2"
EN 10226-1



The **RuB** s.7600L is the right choice for fluid diversion and is designed with robust maintenance-free components ensuring ease of operation and safety. With a simple 90° turn, you can divert flow from one downstream outlet to the other. It combines traditional manual operation with modern automation. It is also very easy to convert from its sturdy lever handle to ISO 5211 actuator flange assembly. It features low operating torque and a special wear reducing self-compensating valve seat design that meets our 100,000 cycle life test requirement. The valve can be purchased separately, with handle or with a **RuB** actuator already mounted.



QUALITY

- Electronic 100% seal test guaranteed for maximum safety
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Performs well in any orientation
- Strong configuration

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO5211 / DIN3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications
- 3-way L-port design for flow diversion

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double O-rings at the stem for maximum safety

SEALING

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

- 100% full port for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 Bar up to 1", 20 bar over 1", non-shock cold working pressure
- -20°C to +170°C (-4°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design
- Stainless steel stem (1.4401/ AISI 316)
- Configurations with 4 seats, L-port (s.7200L) or T-port (s.7300L)

PED DIRECTIVE

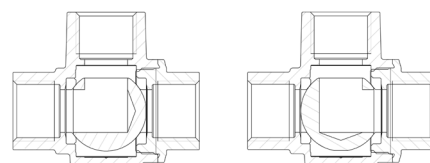
- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking.

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia – Kazakhstan – Belarus)

NOTE: approvals apply to specific configurations/sizes only.

S.76 3-WAY "L" PORT OPERATING POSITIONS



OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact Power electric actuator
- ISO 7/1, BS 21 BSPT taper female threads
- S.7600 without handle, actuator ready
- Various actuator linkage kit



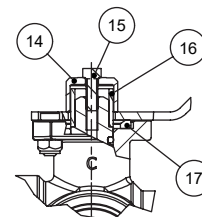
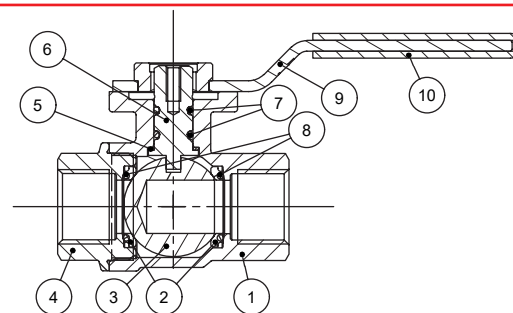
s.7600L XCES7600L - 5466

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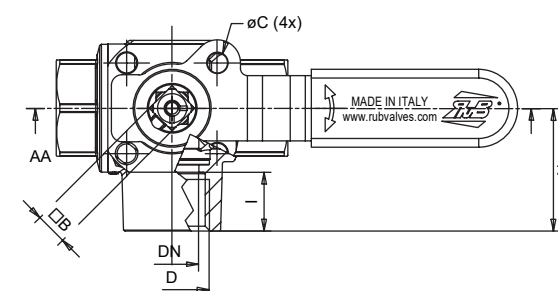
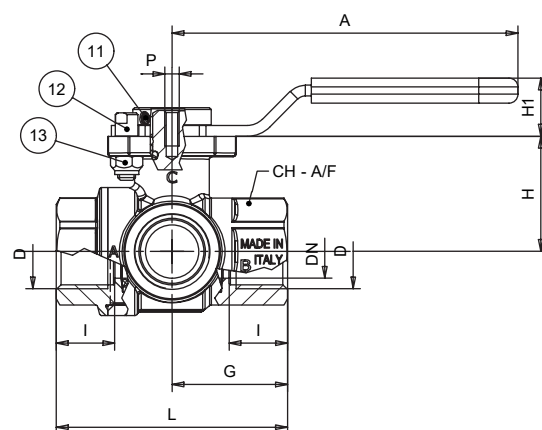
FIREFIGHTING

Part description		Q.ty	Material
1	Nickel plated body (External nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE graphite filled 15%
3	Chrome plated ball	1	CW617N
4	Sand blasted nickel plated end cap (External nickel plated, unplated inside)	1	CW617N
5	Washer	1	PTFE carbon filled 25%
6	Nickel plated stem O-ring design	1	CW617N
7	O-Ring	2	FPM
8	O-Ring	2	FPM
9	Geomet® plated steel handle	1	DD11 (EN10111)
10	Black dipped coating	1	PVC
11	Stainless steel screw	1	1.4301 / AISI304
12	Unplated stop	1	CW617N
13	Zinc plated steel nut	1	Class 8 (UNI7474)
14	Unplated cap	1	CW614N
15	Stainless steel Exagonal screw	1	1.4301 / AISI304
16	Square adaptor 11-14 (only for 1 1/4 size)	1	Steel
17	Washer	1	PTFE



1.1/4"-1.1/2"-2" handle configuration

Code	S76D00L	S76E00L	S76F00L	S76G00L	S76H00L	S76I00L
Size (inch)	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	15	20	25	30.4	38	48
I (mm)	16.5	19	22.5	25	26	29
L (mm)	65	79	92.5	109.5	126	150
G (mm)	32.5	39.5	46.5	55	63	75
H (mm)	32.5	39.5	42.5	56	63.2	72
N (mm)	34.5	42	49.5	60	69	82
A (mm)	97	97	97	145	145	145
ØC (mm)	Ø5.6	Ø5.6	Ø5.6	Ø6.6	Ø6.6	Ø6.6
H1 (mm)	16.5	16.5	16.5	23	23	23
Square B (mm)	9	9	9	11	11	14
CH A/F (mm)	27	32	41	50	55	70
Flange connection DIN ISO 522 DIN 3337	F03	F03	F03	F05	F05	F05
P (ISO 262 Thread)	M4	M4	M4	M5	M5	M5
Kv (m³/h)	5.7	11.1	16.7	28.1	44.5	71.1



TORQUE FOR ACTUATOR SIZING N.M

Delta P --> Valve size	0÷16 bar	
	to open	to close
1/2"	3,5	3,5
3/4"	4,0	4,0
1"	4,5	4,5
1 1/4"	11,7	11,7
1 1/2"	21,5	21,5
2"	28,0	28,0

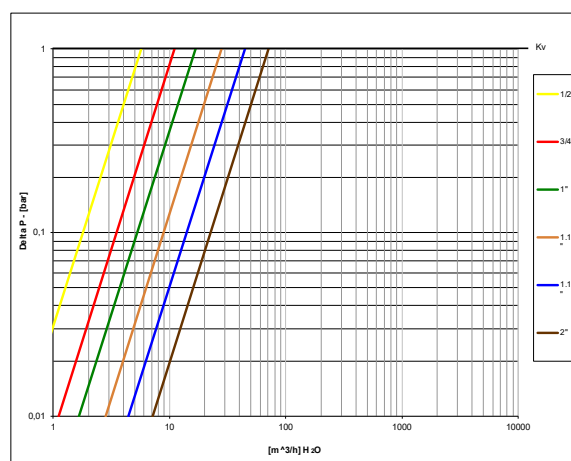
TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE DROP CHART





s.84 EN331

Female/Female
1/4" - 4"
EN 10226-1

HIGH TEMPERATURE RESISTANCE

Now approved for HTB use (Hochtemperaturbeständigkeit)

Class B 0,1 (0,1 bar @650°C for at least 30 minutes).



H2 READY: product approved in EU acc.to EN331 (sizes 1/4" to 2") for the 1st, 2nd and 3rd gas families, therefore compatible with hydrogen use up to 50% in the gas mixture, as established in the 1st gas family of the EN437 (ref. G110)

QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stresses at stem
- Chrome plated brass ball for longer life with rinse hole

BODY

- Hot forged sand blasted external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

FLOW

- Full port to DIN 3357 for maximum flow

OPTIONS UP TO 2" SIZE

- Oval lockable handle up to 2", round over 2" ①
- **RuB** memory stop designed to be installed with our stubby handle ②
- Stainless steel handle (1.4016 / AISI 430) ③
- Stubby handle ④
- T-handle ⑤
- Stem extension
- Patented locking device for valves up to 4"



PED DIRECTIVE

- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by ICIM (0425)

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) up to 2", 30 bar (450 PSI) over 2" non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- For use with dangerous fluids temperature rating is -20°C +60°C and pressure rating is 5 bar / **HTB** Class B 0,1
- AS4617 Limitation for GAS: 2100 Kpa up to 2" and 1500 Kpa from 2 1/2" to 4" rated working pressure and 0°C / +60°C temperature
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

APPROVED BY OR IN COMPLIANCE WITH

- The Australian Gas Association (Australia)
- SVGW (Switzerland)
- Factory Mutual (United States)
- BSI Group (United Kingdom)
- RoHS Compliant (EU)
- GOST-R (Russia)
- DIN-DVGW (Germany) – MOP 5 B 0,1
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- ARGB-KVBG (Belgium) – MOP 5 bar for outside building gas installation, MOP 100 mbar for inside the buildings

NOTE: approvals apply to specific configurations/sizes only.



s.84EN331 XCES84E - 5466

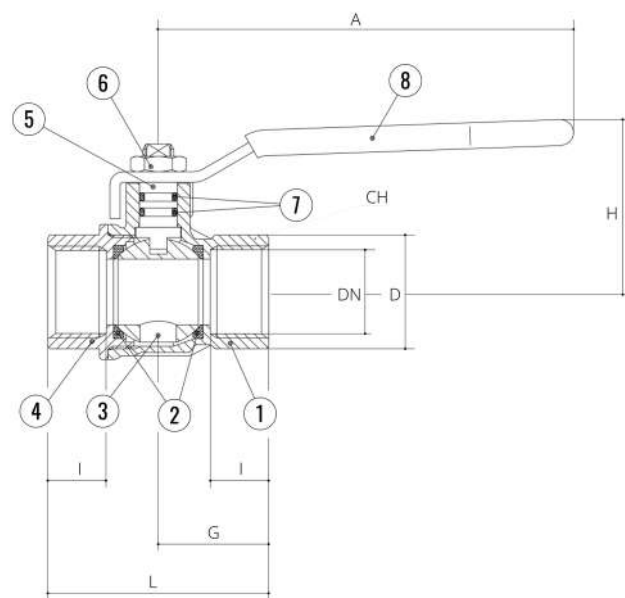
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FIREFIGHTING

Part description		Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside up to 2")	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole (read rinse hole on sizes from 3/4" up to 2")	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside up to 2")	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/4" - 2" hollow ball



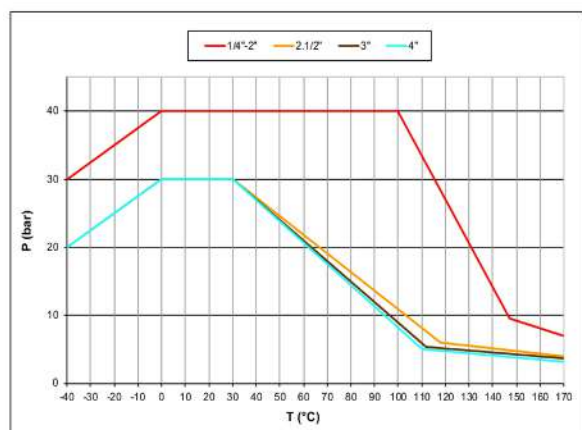
Compliant to CE 2014/68/UE product Equipment category III Module B+D

Code	S84B00	S84C00	S84D00	S84E00	S84F00	S84G00	S84H00	S84I00	S84L00	S84M00	S84N00
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
DN (mm)	8	10	15	20	25	32	40	50	65	80	100
I (mm)	12	12	15.5	17	21	23	23	26.5	32	35	41.5
L (mm)	45	45	59	64	81	93	102	121	156	177	216
G (mm)	22.5	22.5	29.5	32	40.5	46.5	51	60.5	78	88.5	108
A (mm)	82	82	100	120	120	158	158	158	255	255	255
H (mm)	38	38	43	50	54	73	79	86	132	140	154
CH (mm)	17	20	25	31	40	49	54	68.5	85	99	125
Kv (m3/h)	3.9	8.2	28	36	62	79	124	178	516	776	1130

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different. Ball valves are marked CE on handle from 1 1/4" to 2", on body over 2" as follow:

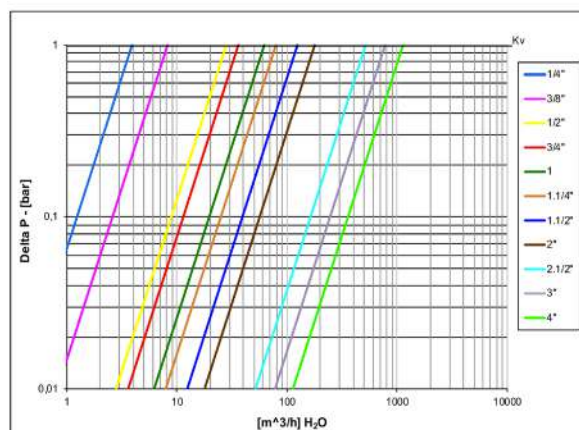
CE 0425 cat IIIB+D PS: 5 GAS TS1: -20°C TS2: +60°C

PRESSURE-TEMPERATURE CHART



AS4617 limitations for GAS: 2100 Kpa up to 2" and 1500 Kpa from 2 1/2" to 4" rated working pressure and 0°C +60°C temperature

PRESSURE DROP CHART





s.84 EN331 M/F

Male/Female
1/4" - 4"
EN 10226-1

HIGH TEMPERATURE RESISTANCE

Now approved for HTB use (Hochtemperaturbeständigkeit)

Class B 0,1 (0,1 bar @650°C for at least 30 minutes).



H2 READY: product approved in EU acc.to EN331 (sizes 1/4" to 2") for the 1st, 2nd and 3rd gas families, therefore compatible with hydrogen use up to 50% in the gas mixture, as established in the 1st gas family of the EN437 (ref. G110)

QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stresses at stem
- Chrome plated brass ball for longer life with rinse hole

BODY

- Hot forged sand blasted external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO 228 parallel female thread by EN10226-1, ISO7/1 taper male thread

PED DIRECTIVE

- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by ICIM (0425)

FLOW

- Full port to DIN 3357 for maximum flow

OPTIONS UP TO 2" SIZE

- Oval lockable handle up to 2", round over 2" **1**
- **RuB** memory stop designed to be installed with our stubby handle **2**
- Stainless steel handle (1.4016 / AISI 430) **3**
- Stubby handle **4**
- T-handle **5**
- Stem extension
- Patented locking device for valves up to 4"



HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) up to 2", 30 bar (450 PSI) over 2" non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- For use with dangerous fluids temperature rating is -20°C +60°C and pressure rating is 5 bar / **HTB** Class B 0,1
- AS4617 Limitation for GAS: 2100 Kpa up to 2" and 1500 Kpa from 2 1/2" to 4" rated working pressure and 0°C / +60°C temperature
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

APPROVED BY OR IN COMPLIANCE WITH

- The Australian Gas Association (Australia)
- SVGW (Switzerland)
- Factory Mutual (United States)
- BSI Group (United Kingdom)
- RoHS Compliant (EU)
- GOST-R (Russia)
- DIN-DVGW (Germany) – MOP 5 B 0,1
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- ARGB-KVBG (Belgium) – MOP 5 bar for outside building gas installation

NOTE: approvals apply to specific configurations/sizes only.



s.84 EN331 MF XCES84EM - 5466

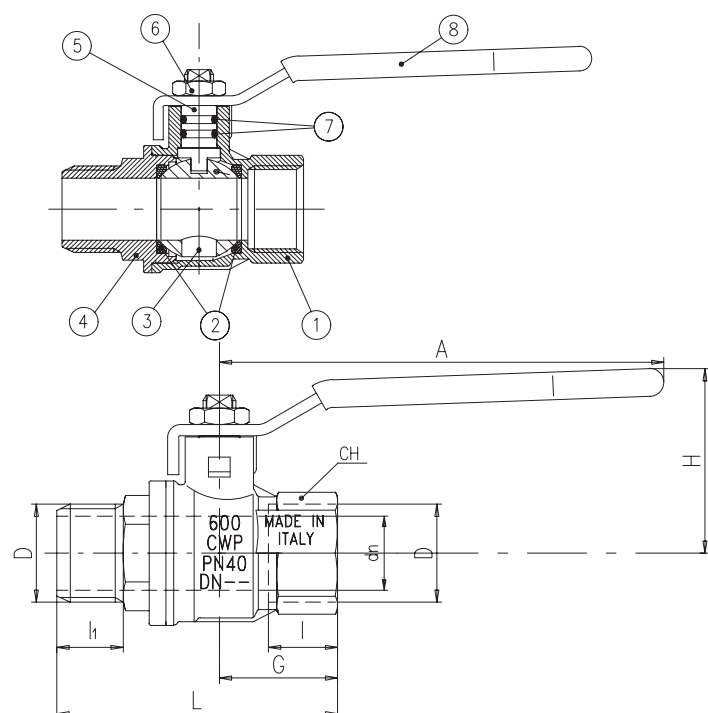
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FIREFIGHTING

Part description		Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside up to 2")	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole (read rinse hole on sizes from 3/4" up to 2")	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside up to 2")	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/4" - 2" hollow ball



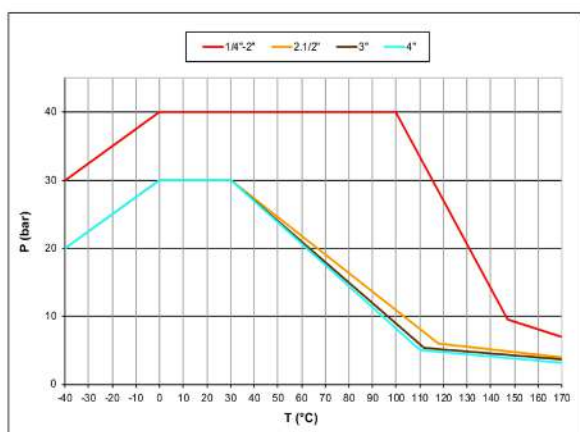
Compliant to CE 2014/68/UE product Equipment category III Module B+D

Code	S84B20	S84C20	S84D20	S84E20	S84F20	S84G20	S84H20	S84I20	S84L20	S84M20	S84N20
D (inch)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (mm)	8	10	15	20	25	32	40	50	65	80	100
I (mm)	12	12	15.5	17	21	23	23	26.5	32	35	41.5
I1 (mm)	13.5	13.5	16.5	18	22	24	24	27.5	37	39.5	44
L (mm)	56.5	56.5	70	76.5	92.5	106	113	133	180.5	204.5	238
G (mm)	22.5	22.5	29.5	32	40.5	46.5	51	60.5	78	88.5	108
A (mm)	82	82	100	120	120	158	158	158	255	255	255
H (mm)	38	38	43	50	54	73	79	86	132	140	154
CH (mm)	17	20	25	31	40	49	54	68.5	85	99	125
Kv (m3/h)	3.9	8.2	28	36	62	79	124	178	516	776	1130

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different. Ball valves are marked CE on handle from 1 1/4" to 2", on body over 2" as follow:

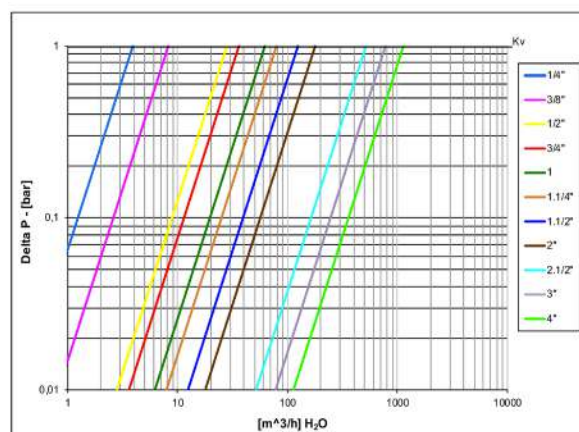
CE 0425 cat IIIB+D PS: 5 GAS TS1: -20°C TS2: +60°C

PRESSURE-TEMPERATURE CHART



AS4617 limitations for GAS: 2100 Kpa up to 2" and 1500 Kpa from 2 1/2" to 4" rated working pressure and 0°C +60°C temperature

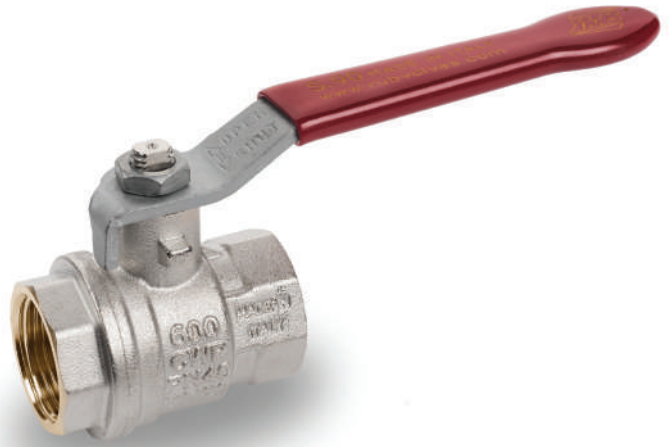
PRESSURE DROP CHART





s.90

Female/Female
1/4" - 4"
ISO 228



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service

OPTIONS

- Oval lockable handle up to 2", round over 2" **1**
- **RuB** memory stop is designed to be installed with our stubby handle **2**
- Stainless steel handle (1.4016 / AISI 430) **3**
- T-handle **4**
- Stem extension
- Patented locking device
- Dezincification resistant brass body and components
- Stubby handle up to 2"

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) up to 2", 30 bar (450 PSI) over 2" non-shock cold working pressure
- -40°C to +180°C (-40°F to +356°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- Water Regulations Advisory Scheme (United Kingdom)
- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.



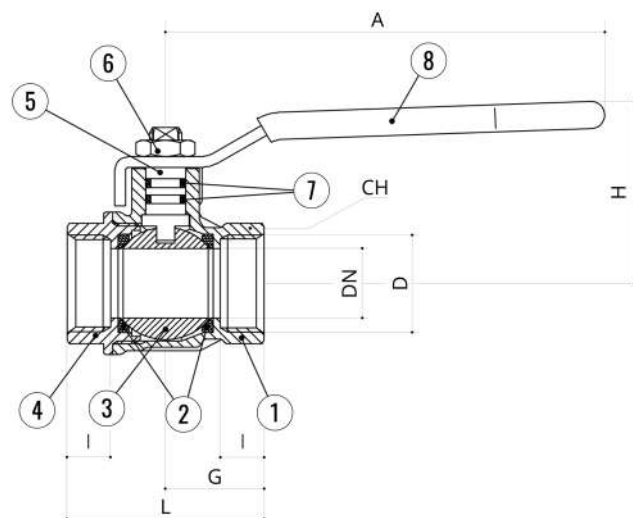
S.90 XCES90 - 5466

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FIREFIGHTING

Part description		Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside up to 2")	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside up to 2")	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)



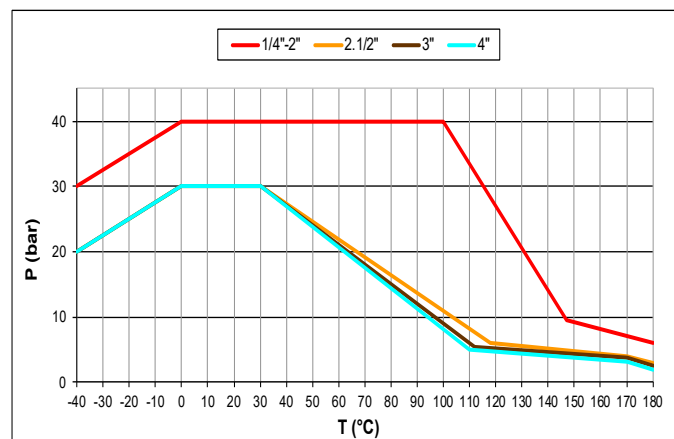
1 1/4"-2" hollow ball

Code	S90B00	S90C00	S90D00	S90E00	S90F00	S90G00	S90H00	S90I00	S90L00	S90M00	S90N00
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (mm)	8	10	15	20	25	32	40	50	65	80	100
I (mm)	9	9	11	12	14	15	17	19	22	25	29
L (mm)	39	39	50	54	67	77	90	106	136	157	191
G (mm)	19,5	19,5	25	27	33,5	38,5	45	53	68	78,5	95,5
A (mm)	82	82	100	120	120	158	158	158	255	255	255
H (mm)	38	38	43	50	54	73	79	86	132	140	154
CH (mm)	17	20	25	31	38	48	54	66	85	99	125
Kv (m³/h)	3,9	8,2	28	42	70	80	125	179	516	776	1130

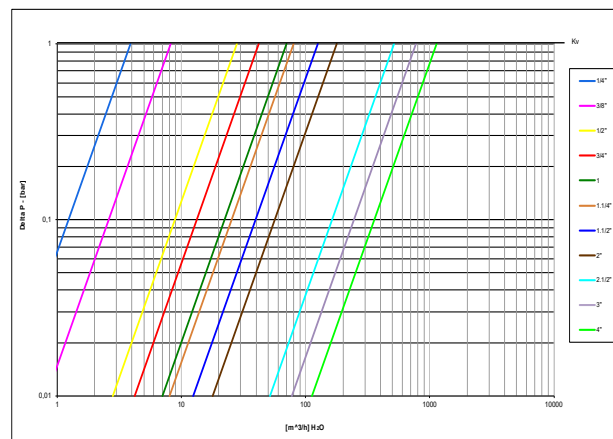
DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different. Ball valves are marked CE on handle from 1 1/4" to 2", on body over 2" as follow:

CE XXCODEXX Cat I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.90 M/F

Male/Female
1/4" - 2"
ISO 228



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel male by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service

OPTIONS

- Oval lockable handle up to 2", round over 2" ❶
- Patented locking device ❷
- Stainless steel handle (1.4016 / AISI 430) ❸
- T-handle ❹
- Stem extension
- **RuB** memory stop is designed to be installed with our stubby handle
- Dezincification resistant brass body and components
- Stubby handle up to 2"

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- -40°C to +180°C (-40°F to +356°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- Water Regulations Advisory Scheme (United Kingdom)
- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.



s.90 MF XCES90M - 5466

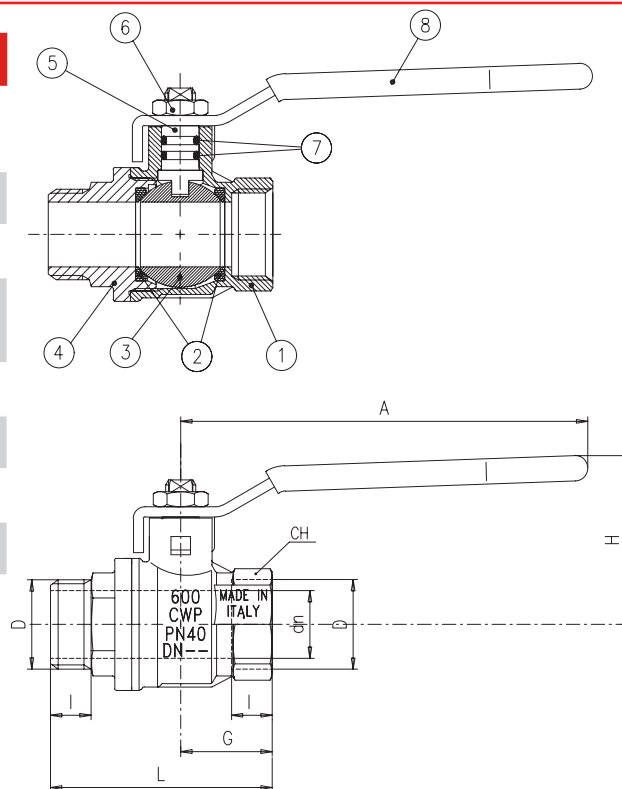
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FIREFIGHTING

Part description		Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

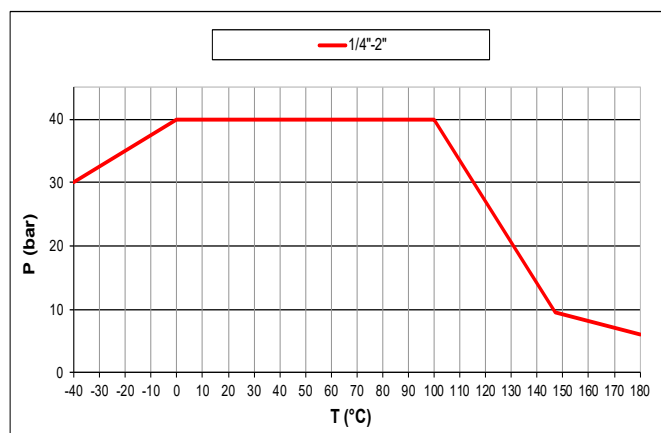
1 1/4"-2" hollow ball



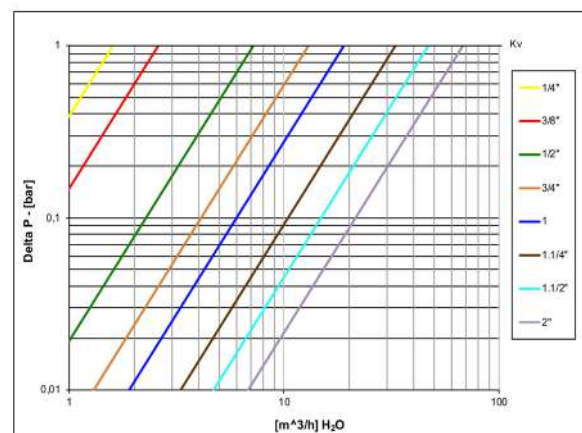
Code	S90B20	S90C20	S90D20	S90E20	S90F20	S90G20	S90H20	S90I20
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	9	9	11	12	14	15	17	19
L (mm)	49	49	60	65.5	77.5	89	100	117
G (mm)	19,5	19,5	25	27	33,5	38,5	45	53
A (mm)	82	82	100	120	120	158	158	158
H (mm)	38	38	43	50	54	73	79	86
CH (mm)	17	20	25	31	38	48	54	66
Kv (m³/h)	3,9	8,2	28	42	70	80	125	179

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Ball valves are marked CE on handle from 1 1/4" to 2": CE XXCODEXX Cat I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.90 M/M

Male/Male
1/4" - 2"
ISO 228



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel male by male threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- -40°C to +180°C (-40°F to +356°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- Water Regulations Advisory Scheme (United Kingdom)
- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle up to 2", round over 2" ❶
- Patented locking device ❷
- Stainless steel handle (1.4016 / AISI 430) ❸
- T-handle ❹
- Stem extension
- **RuB** memory stop is designed to be installed with our stubby handle
- Dezincification resistant brass body and components
- Stubby handle up to 2"



s.90 MM XCES90MM - 5466

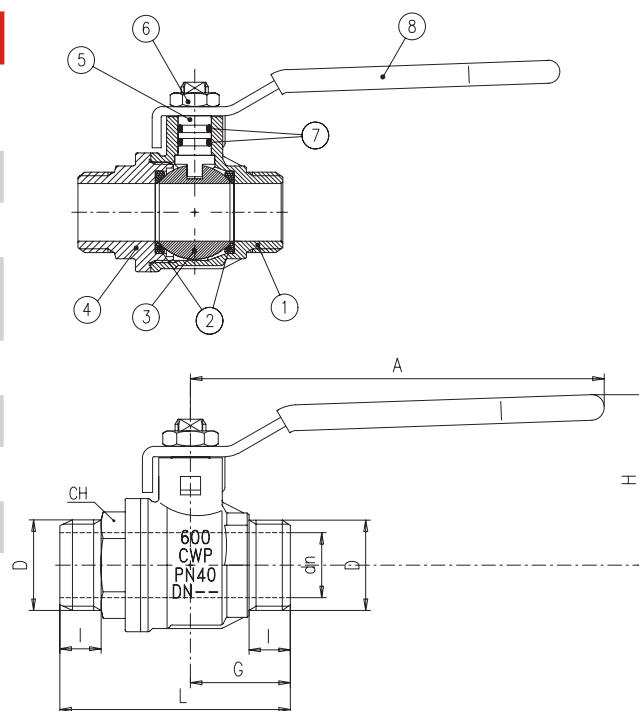
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FIREFIGHTING

Part description		Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

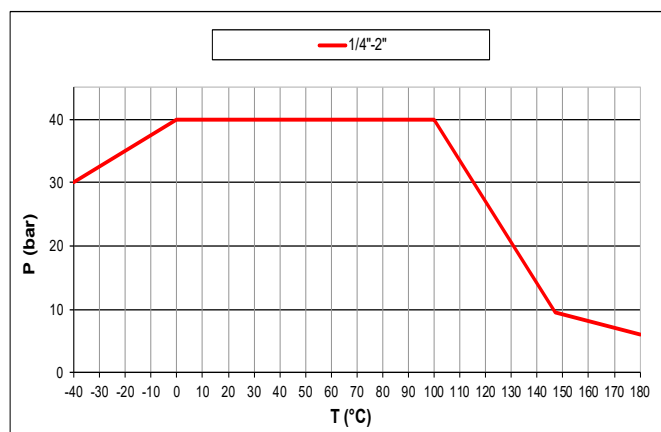
1 1/4"-2" hollow ball



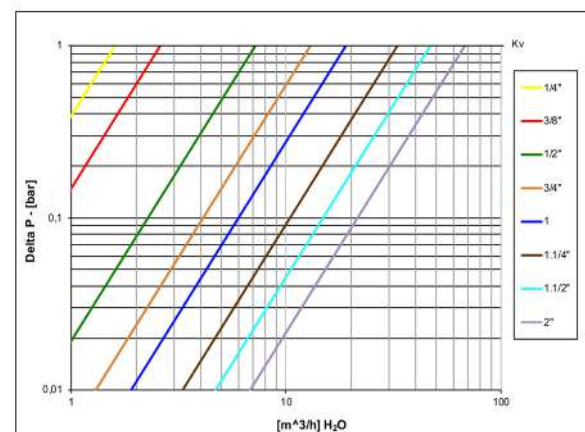
Code	S90B22	S90C22	S90D22	S90E22	S90F22	S90G22	S90H22	S90I22
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	9	9	11	12	14	15	17	19
L (mm)	50.5	50.5	62	67	80	91.5	103	120
G (mm)	21	21	27	29	36	41	48	56
A (mm)	82	82	100	120	120	158	158	158
H (mm)	38	38	43	50	54	73	79	86
CH (mm)	15	18	22	27	35	44	54	68
Kv (m³/h)	3,9	8,2	28	42	70	80	125	179

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Ball valves are marked CE on handle from 1 1/4" to 2": CE XXCODEXX Cat I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.92 NPT

**Female/Female
1/4" - 4"
packing gland**



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Pure PTFE adjustable packing gland and reinforced washer for lower torque and easy maintenance
- Triple stem seals in sizes over 2"

SEALING

- Glass filled pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B. 1.20.1 female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) up to 2", 450 PSI (30 bar) over 2", (150 WSP -10 bar all sizes) non-shock cold working pressure
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- *150 psig (10 bar) non-shock steam working pressure. Not suitable for throttling steam
- -40°F/+366°F (-40°C / +170°C)

WARNING: freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball and/or stem (1.4401 / AISI 316)
- Custom design
- Pure PTFE seals

APPROVED BY OR IN COMPLIANCE WITH

- Canadian standards Association (United States, Canada)
- Factory Mutual (United States)
- RoHS Compliant (EU)
- GOST-R (Russia)
- Underwriters Laboratories (United States, Canada):
 - Guide YSDT: LP-Gas shut-off valve
 - Guide YRBX: Flammable liquid shut-off valve
 - Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
 - Guide MHKZ: No. 6 oil at 250°F
- CRN-TSSA acc. to MSS SP110 (Canada)
- Kuwait Fire Service Directorate (Kuwait)
- Meeting WW-V-35C Federal U.S. Specification (United States)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS UP TO 2" SIZE

- Oval lockable handle up to 2", round over 2" **1**
- Patented locking device for valves up to 4" **2**
- Stem extension
- Lead free for safe drinking water (0.25% or less Pb)
- Stainless steel handle (1.4016 / AISI 430) **3**
- Stubby handle **4**
- T-handle **5**

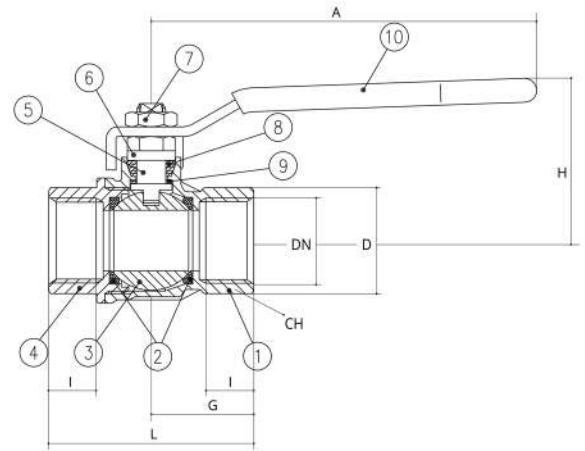


s.92 NPT XCES92 - 5466

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	Part description	Q.ty	Material
1	Unplated NPT body	1	CW617N
2	Seat	2	PTFE glass filled 5-15%
3	Chrome plated ball	1	CW617N
4	Unplated NPT end-cap	1	CW617N
5	Nickel plated stem packing gland design	1	CW617N
6	Nickel plated gland nut	1	CW617N
7	Geomet® nut	1	C4C (EN10263-2)
8	Packing gland seal	1	PTFE
9	Washer	1	PTFE carbon filled 25%
10	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)

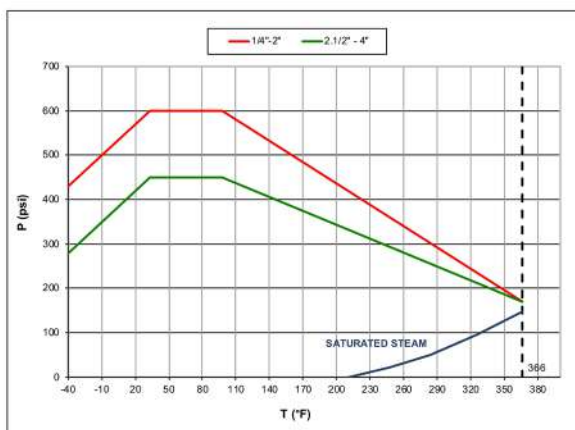


1 1/4"-2" hollow ball

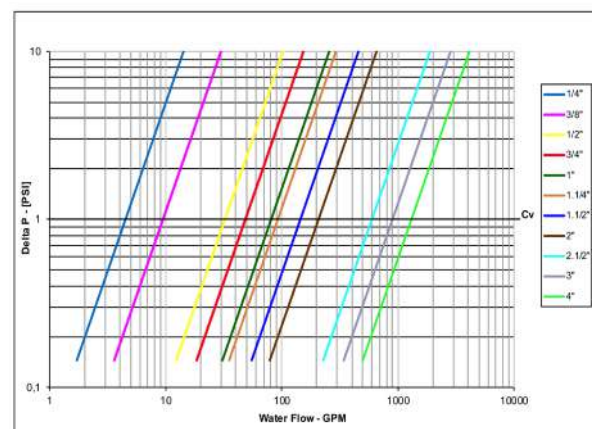
Code	S92B41	S92C41	S92D41	S92E41	S92F41	S92G41	S92H41	S92I41	S92L41	S92M41	S92N41
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
DN (inch)	0.315	0.374	0.591	0.748	0.945	1.181	1.496	1.890	2.520	2.992	3.937
I (inch)	0.472	0.472	0.61	0.669	0.827	0.906	0.906	1.043	1.26	1.377	1.633
L (inch)	1.772	1.772	2.323	2.520	3.189	3.661	4.016	4.764	6.142	6.969	8.504
G (inch)	0.886	0.886	1.161	1.260	1.594	1.831	2.008	2.382	3.071	3.484	4.252
A (inch)	3.228	3.228	3.937	4.724	4.724	6.22	6.22	6.22	10.039	10.039	10.039
H (inch)	1.563	1.563	1.695	1.988	2.153	2.988	3.236	3.5	5.197	5.512	6.063
CH (inch)	0.669	0.787	0.984	1.22	1.575	1.929	2.126	2.697	3.346	3.898	4.921
Cv (GPM)	4.5	9.5	32.3	48.5	80.9	92.4	144.4	206.8	596.2	896.5	1305.5

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.92 NPT M/F

Male/Female
1/2" - 2"
packing gland



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Pure PTFE adjustable packing gland and reinforced washer for lower torque and easy maintenance
- Triple stem seals in sizes over 2"

SEALING

- Glass filled pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 male by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) up to 2", 450 PSI (30 bar) over 2", (150 WSP -10 bar all sizes) non-shock cold working pressure
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- *150 psig (10 bar) non-shock steam working pressure. Not suitable for throttling steam
- -40°F/+366°F (-40°C / +185°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball and/or stem (1.4401 / AISI 316)
- Custom design
- Pure PTFE seals

APPROVED BY OR IN COMPLIANCE WITH

- Canadian standards Association (United States, Canada)
- Factory Mutual (United States)
- GOST-R (Russia)
- RoHS Compliant (EU)
- Meeting WW-V-35C Federal U.S. Specification (United States)
- Underwriters Laboratories (United States, Canada):
 - Guide YSDT: LP-Gas shut-off valve
 - Guide YRBX: Flammable liquid shut-off valve
 - Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
 - Guide MHKZ: No. 6 oil at 250°F

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS UP TO 2" SIZE

- Oval lockable handle up to 2", round over 2" **1**
- Patented locking device for valves up to 4" **2**
- Stem extension
- Stainless steel handle (1.4016 / AISI 430) **3**
- Stubby handle **4**
- T-handle **5**



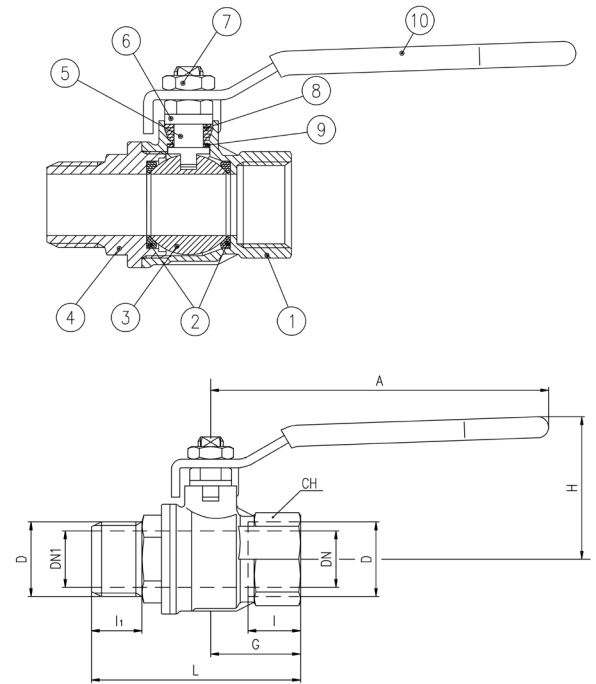
s.92 NPT M/F XCES92M - 5466

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	Part description	Q.ty	Material
1	Unplated body	1	CW617N
2	Seat	2	PTFE glass filled 5-15%
3	Chrome plated ball	1	CW617N
4	Unplated NPT end-cap	1	CW617N
5	Nickel plated stem packing gland design	1	CW617N
6	Nickel plated gland nut	1	CW617N
7	Geomet® nut	1	C4C (EN10263-2)
8	Packing gland seal	1	PTFE
9	Washer	1	PTFE carbon filled 25%

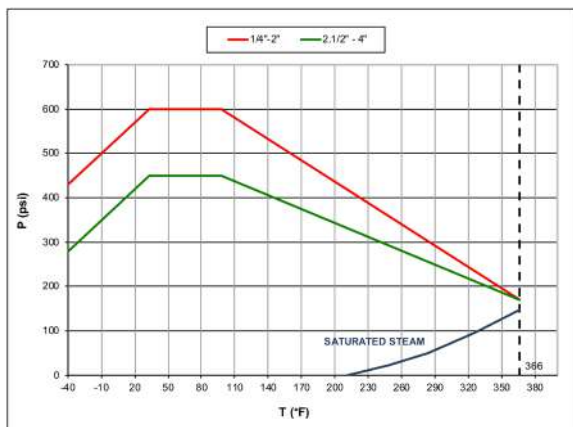
1 1/4"-2" hollow ball



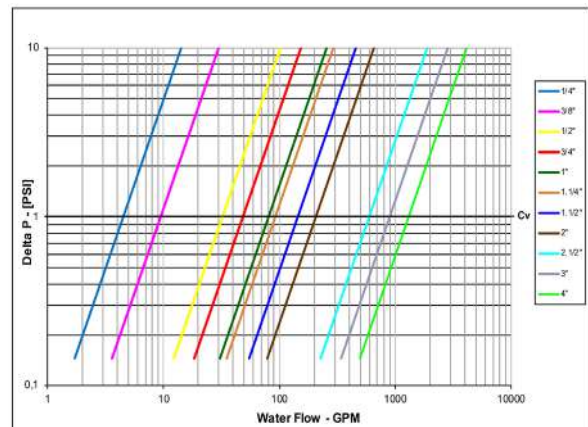
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D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
DN (inch)	0.315	0.374	0.591	0.748	0.945	1.181	1.496	1.890	2.520	2.992	3.937
DN1 (inch)	-	-	-	-	-	-	-	-	2.205	2.756	3.701
I (inch)	0.472	0.472	0.61	0.669	0.827	0.906	0.906	1.043	1.26	1.378	1.634
I1 (inch)	0.531	0.531	0.65	0.709	0.866	0.945	0.945	1.083	1.457	1.555	1.732
L (inch)	2.224	2.224	2.756	2.992	3.642	4.173	4.449	5.236	7.106	8.051	9.37
G (inch)	0.886	0.886	1.161	1.260	1.594	1.831	2.008	2.382	3.071	3.484	4.252
A (inch)	3.228	3.228	3.937	4.724	4.724	6.22	6.22	6.22	10.039	10.039	10.039
H (inch)	1.563	1.563	1.695	1.988	2.153	2.988	3.236	3.5	5.197	5.512	6.063
CH (inch)	0.669	0.787	0.984	1.22	1.575	1.929	2.126	2.697	3.346	3.898	4.921
Cv (GPM)	4.5	9.5	32.3	48.5	80.9	92.4	144.4	206.8	596.2	896.5	1305.5

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part4. Stem configuration of valves over 2" is slightly different.

PRESSURE-TEMPERATURE CHART



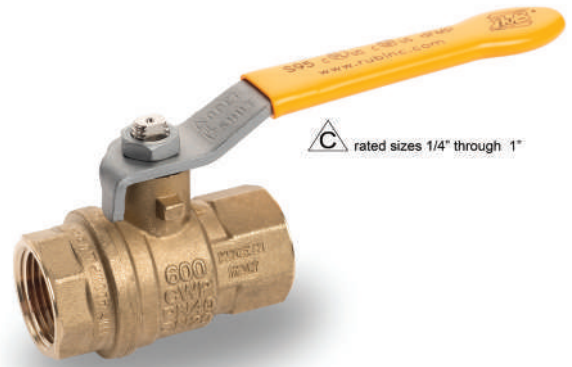
PRESSURE DROP CHART





s.95 NPT

Female/Female
1/4" - 4"



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical

load

- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) up to 2", 450 PSI (30 bar) over 2" non-shock cold working pressure
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- -40°F/+350°F (-40°C / +170°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design
- Special configuration for industrial oxygen application

APPROVED BY OR IN COMPLIANCE WITH

- Canadian standards Association (United States, Canada)
- Factory Mutual (United States)
- RoHS Compliant (EU)
- GOST-R (Russia)
- Underwriters Laboratories (United States, Canada):
 - Guide YSDT: LP-Gas shut-off valve
 - Guide YRBX: Flammable liquid shut-off valve
 - Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
 - Guide MHKZ: No. 6 oil at 250°F
- CRN-TSSA acc. to MSS SP110 (Canada)
- Meeting WW-V-35C Federal U.S. Specification (United States)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS UP TO 2" SIZE

- Stem extension
- Oval lockable handle up to 2", round over 2" ①
- **RuB** memory stop designed to be installed with our stubby handle ②
- Stainless steel handle (1.4016 / AISI 430) ③
- Patented locking device for valves up to 4"
- Stubby handle ④
- T-handle ⑤

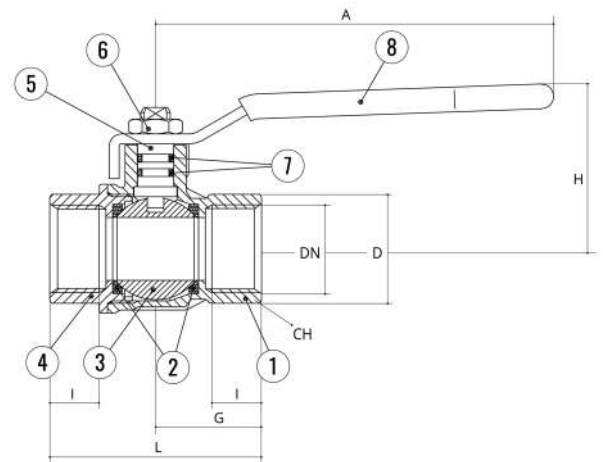


s.95 NPT XCES95 - 5466

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	Part description	Q.ty	Material
1	Unplated NPT body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated NPT end-cap	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)

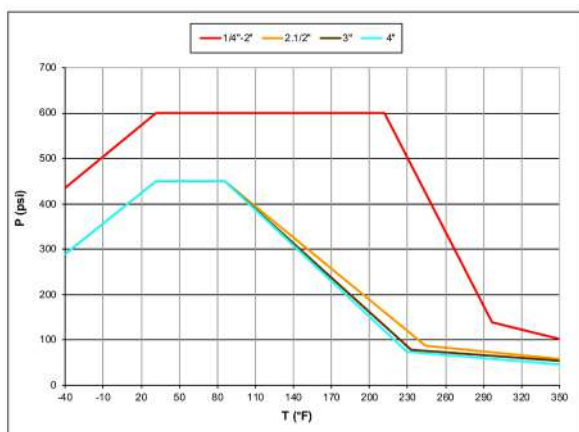


1 1/4"-2" hollow ball

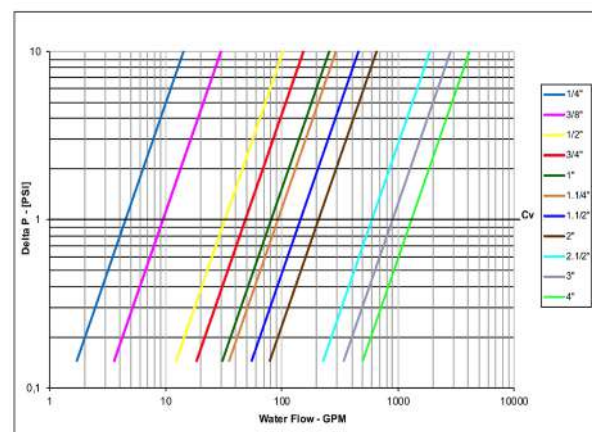
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D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
DN (inch)	0.315	0.374	0.591	0.748	0.945	1.181	1.496	1.890	2.520	2.992	3.937
I (inch)	0.472	0.472	0.610	0.669	0.827	0.906	0.906	1.043	1.260	1.377	1.633
L (inch)	1.772	1.772	2.323	2.520	3.189	3.661	4.016	4.764	6.142	6.969	8.504
G (inch)	0.886	0.886	1.162	1.260	1.594	1.831	2.008	2.382	3.071	3.484	4.252
A (inch)	3.228	3.228	3.937	4.724	4.724	6.220	6.220	6.220	10.039	10.039	10.039
H (inch)	1.480	1.480	1.679	1.956	2.114	2.858	3.094	3.370	5.197	5.512	6.063
CH (inch)	0.669	0.787	0.984	1.220	1.575	1.929	2.126	2.697	3.346	3.898	4.921
Cv (GPM)	4.5	9.5	32.3	48.5	80.9	92.4	144.4	206.8	596.2	896.5	1305.5

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.128

1/4" - 4"
ISO 228
Y-strainer



QUALITY

- Suitable for industrial, pneumatic and hydraulic installations

BODY

- Hot forged CW617N brass body
- Stainless steel (1.4301 / AISI 304) filter
- Degree of filtration: 1/4" through 2" 500 µm, 2 1/2", 3", 4" 800 µm

THREADS

- ISO 228/1 female by female parallel threads and inspection plug

WORKING PRESSURE & TEMPERATURE

- 20 bar up to 2", 16 bar over 2" non-shock cold working pressure
- -20°C to +110°C (-4°F to +230°F) in absence of steam
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25 mm; it cannot be used with non-dangerous gases in sizes larger than 50mm

APPROVED BY OR IN COMPLIANCE WITH

- Attestation de Conformité Sanitaire (France)

NOTE: approvals apply to specific configurations/sizes only.

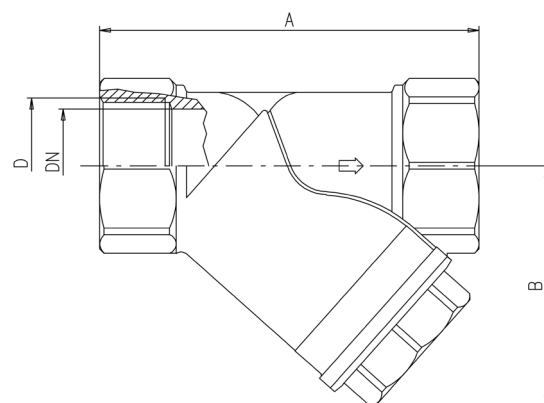
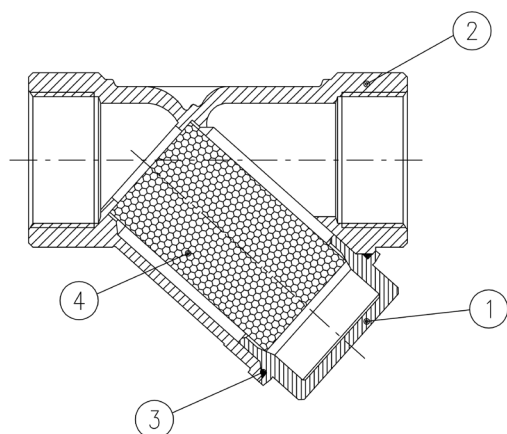
s.128 XCE128 - 5466

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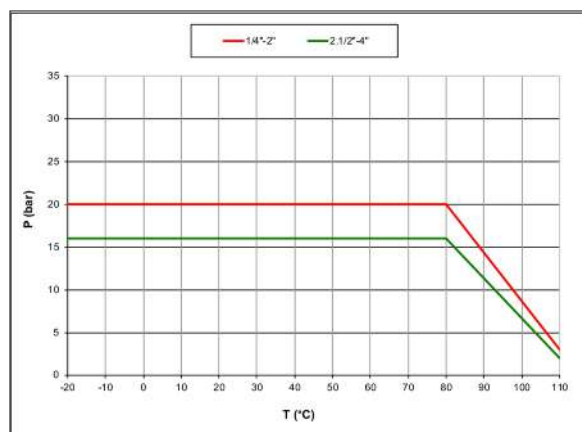
FIREFIGHTING

	Part description	Q.ty	Material
1	End-cap	1	CW617N
2	Body	1	CW617N
3	O-Ring	1	NBR
4	Stainless steel strainer	1	1.4301 / AISI 304

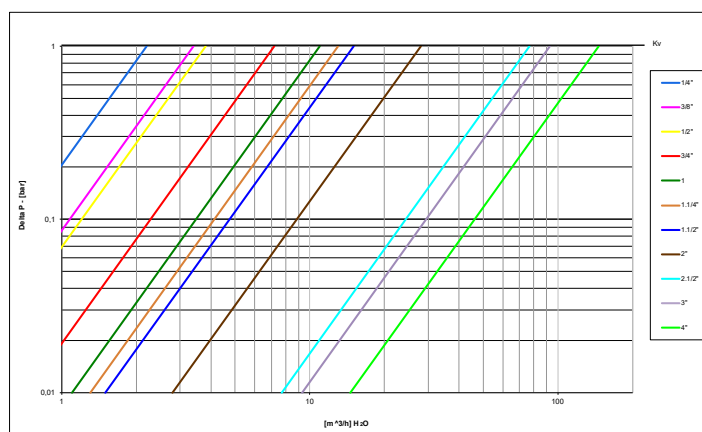


Code	128B00	128C00	128D00	128E00	128F00	128G00	128H00	128I00	128L00	128M00	128N00
D (inch)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A (mm)	55	55	58	70	87	96	106	126	150	169	219
B (mm)	40	40	40	48	56	64	73	88,5	105	120	162
DN	8	10	15	20	25	32	40	50	65	80	100
PN (Kg/cm ²)	20	20	20	20	20	20	20	20	16	16	16
Kv (m ³ /h)	2.2	3.4	3.8	7.2	11	13	15	28	77	93	146

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART



DRINKING WATER

Water is life, and it deserves the utmost respect through the highest safety and hygiene standards. With decades of expertise, we manufacture ball valves using specialized alloys that meet regulations worldwide. Whether it's DZR brass CW602N, Lead-Free CW510L, CW511L, or UBA-approved CW617N, RuB valves are designed to meet your specific drinking water needs.





s.20 DZR	1/4" - 2" ISO 228, dezincification-resistant	Page 262
s.20 DZR M/F	3/8" - 1 1/4" ISO 228, dezincification-resistant	Page 264
s.21 DZR	12 - 54 mm solder ends, for insulation, dezincification-resistant	Page 266
s.24 DZR	1/2" - 4" EN 10226-1, dezincification-resistant	Page 268
s.24 DZR press ends	15 - 54 mm, dezincification-resistant	Page 270
s.26 DZR	3/8" - 2" ISO 228, for insulation, dezincification-resistant	Page 272
s.28 DZR	12 - 54 mm compression ends, dezincification-resistant	Page 274
s.30 DZR	12 - 54 mm compression ends, for insulation, dezincification-resistant	Page 276
s.84 W	1/4" - 2", EN 10226-1	Page 278
s.84 W M/F	1/4" - 2", EN 10226-1	Page 280
s.84W M/F	3/4" for flat gasket	Page 282
s.468LF DZR	22 mm compression ends, ISO 5211, Lead-Free, dezincification-resistant	Page 284
Puri-T 292 NPT	1/4" - 2" Lead Free	Page 286
Puri-T 242	1/2" - 2" Lead Free, solder ends	Page 288
Puri-T 264 NPT	1/2" - 1 1/2" Lead Free, ISO 5211	Page 290



s.20 DZR

Female/Female

1/4" - 2"

ISO 228, dezincification-resistant

Several governmental authorities recommend use of special alloys for valves handling water in areas where there is a problem of dezincification.

RuB DZR valves are designed to meet such requirements.

Through the use of new technology these valves retain the reliability and competitiveness of brass, but are comparable to bronze in corrosion resistance.

Be kind with yourself, make sure the valve that brings you pure fresh water is an **RuB** DZR valve.



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated DZR brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted DZR unplated body and cap sealed with Loctite® or equivalent thread sealant
- Dezincification resistant ADZ-T and ADZ-P brass approved to SBN-PFS 1983:2 and NR-BFS 1988:18 specifications

STEM

- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Blowout-proof unplated DZR brass stem

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 bar (450 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design
- Male by female threads

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- GOST-R (Russia)
- KIWA Regulation 4 a.k.a. KUKreg4 (United Kingdom)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- Water Regulations Advisory Scheme (United Kingdom)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle ①
- **RuB** memory stop designed to be installed with our stubby handle ②
- Stainless steel handle (1.4016 / AISI 430) ③
- Patented locking device
- T-handle ④
- CW617N brass body and components ⑤
- Brass stem extension ⑤
- Stubby handle



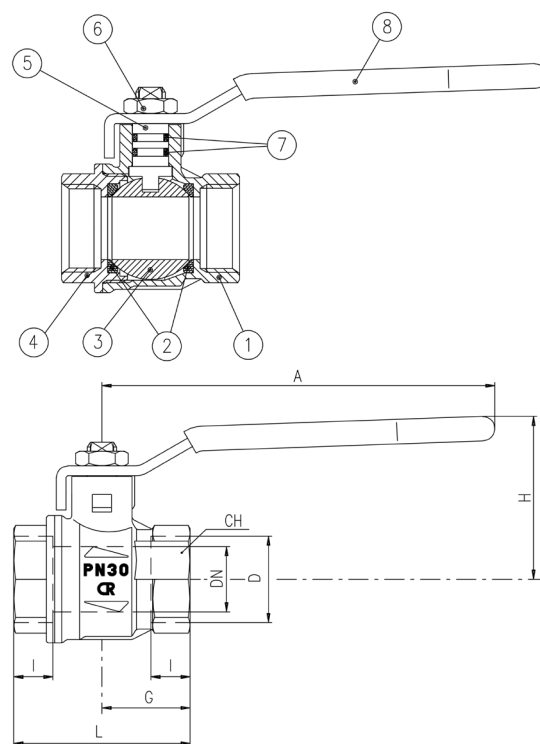
s.20 DZR XGES20 - 5466

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	Part description	Q.ty	Material
1	Unplated body	1	CW602N
2	Ball seat	2	PTFE
3	Chrome plated ball	1	CW602N
4	Unplated end-cap	1	CW602N
5	Unplated stem O-ring design	1	CW602N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	White PVC coated Geomet® steel handle	1	DD11 (EN10111)

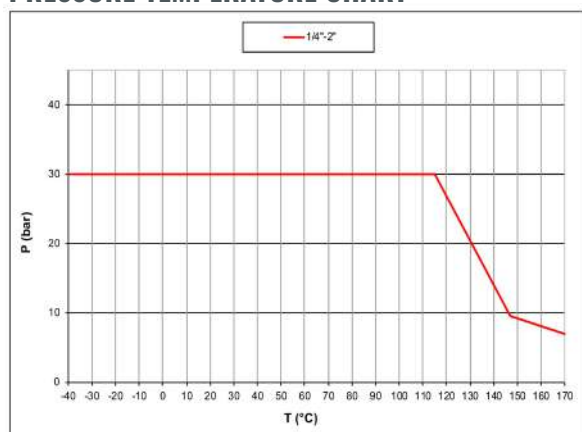
1 1/4"-2" hollow ball



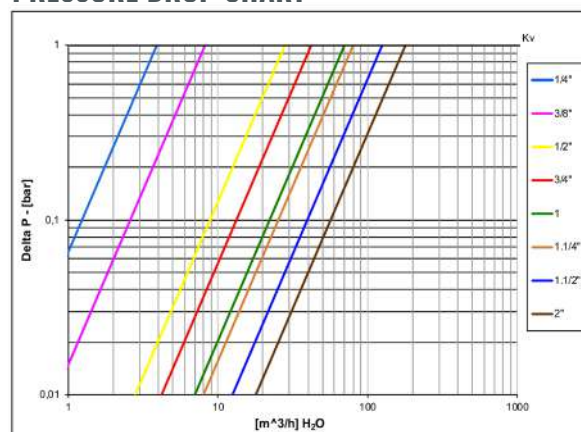
Code	S20B00	S20C00	S20D00	S20E00	S20F00	S20G00	S20H00	S20I00
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	9	9	11	12	14	15	17	19
L (mm)	39	39	50	54	67	77	90	106
G (mm)	19.5	19.5	25	27	33.5	38.5	45	53
A (mm)	100	100	100	120	120	158	158	158
H (mm)	39	39	43	50	54	73	79	86
CH (mm)	17	20	25	31	38	48	54	66
Kv (m³/h)	3.9	8.2	28	42	70	80	125	179

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.20 DZR M/F

**Male/Female
3/8" - 1 1/4"**

ISO 228, dezincification-resistant

Several governmental authorities recommend use of special alloys for valves handling water in areas where there is a problem of dezincification. **RuB** DZR valves are designed to meet such requirements.

Through the use of new technology these valves retain the reliability and competitiveness of brass, but are comparable to bronze in corrosion resistance.

Be kind with yourself, make sure the valve that brings you pure fresh water is an **RuB** DZR valve.



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated DZR brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted DZR unplated body and cap sealed with Loctite® or equivalent thread sealant
- Dezincification resistant ADZ-T and ADZ-P brass approved to SBN-PFS 1983:2 and NR-BFS 1988:18 specifications

STEM

- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Blowout-proof unplated DZR brass stem

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel male by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 bar (450 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- KIWA Regulation 4 a.k.a. KUKreg4 (United Kingdom)
- Water Regulations Advisory Scheme (United Kingdom)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle ①
- Patented locking device ②
- Stainless steel handle (1.4016 / AISI 430) ③
- **RuB** memory stop designed to be installed with our stubby handle
- T-handle ④
- CW617N brass body and components ⑤
- Brass stem extension ⑤
- Stubby handle

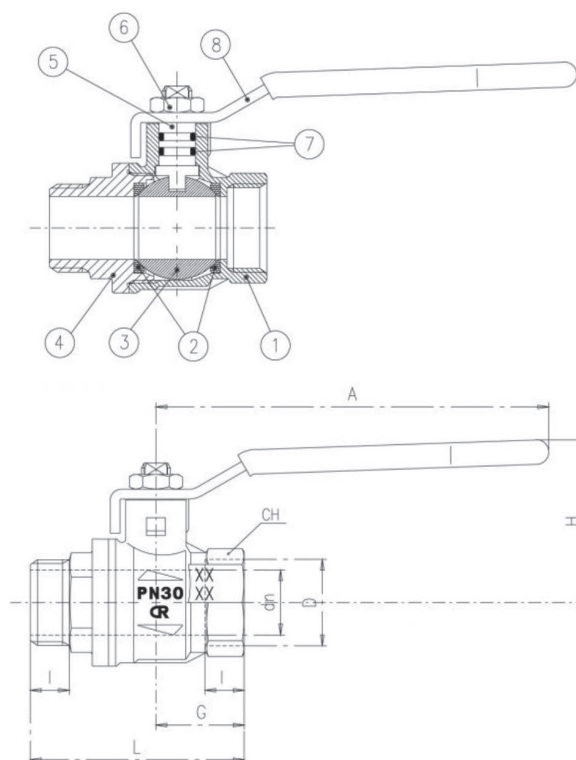


s.20 DZR MF XGES20M - 5466

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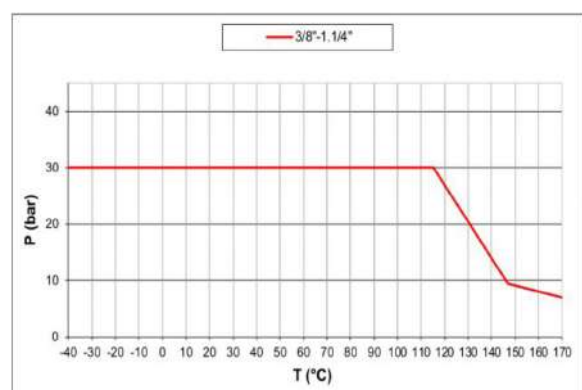
	Part description	Q.ty	Material
1	Unplated body	1	CW602N
2	Ball seat	2	PTFE
3	Chrome plated ball	1	CW602N
4	Unplated end-cap	1	CW602N
5	Unplated stem O-ring design	1	CW602N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	White PVC coated Geomet® steel handle	1	DD11 (EN10111)



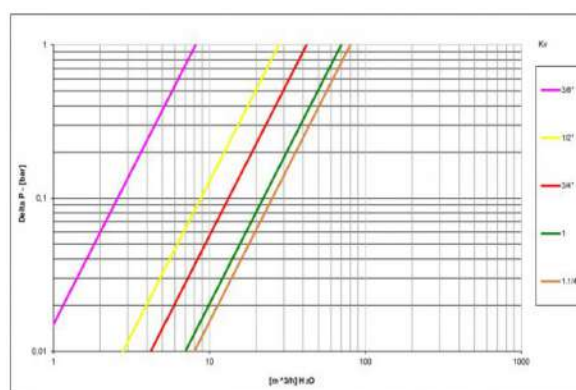
Code	S20C20	S20D20	S20E20	S20F00	S20200
D (inch)	3/8	1/2	3/4	1	1 1/4
DN (mm)	10	15	20	25	32
I (mm)	9	11	12	14	15
L (mm)	49	60	65.5	77.5	89
G (mm)	19.5	25	27	33.5	38.5
A (mm)	82	100	120	120	158
H (mm)	38	43	50	54	73
CH (mm)	20	25	31	38	48
Kv (m³/h)	8.2	28	42	70	80

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.21 DZR

**12 - 54 mm solder ends
for insulation
dezincification-resistant**

Several governmental authorities recommend use of special alloys for valves handling water in areas where there is a problem of dezincification.

RuB DZR valves are designed to meet such requirements. Through the use of new technology these valves retain the reliability and competitiveness of brass, but are comparable to bronze in corrosion resistance. Be kind with yourself, make sure the valve that brings you pure fresh water is an **RuB** DZR valve.



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated DZR brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted DZR unplated body and cap sealed with Loctite® or equivalent thread sealant
- Dezincification resistant ADZ-T and ADZ-P brass approved to SBN- PFS 1983:2 and NR- BFS 1988:18 specifications

STEM

- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

CONNECTIONS

- Solder ends to NS1759 and ISO 2016

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 16 bar (230 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- Applicable to valve, not to solder joints
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- GOST-R (Russia)
- Kiwa-Swedcert (Sweden)
- Ri.se. / Boverket (Sweden)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle **1**
- Patented locking device **2**
- **RuB** memory stop designed to be installed with our stubby handle
- Stainless steel handle (1.4016 / AISI 430) **3**
- Stubby handle
- T-handle **4**

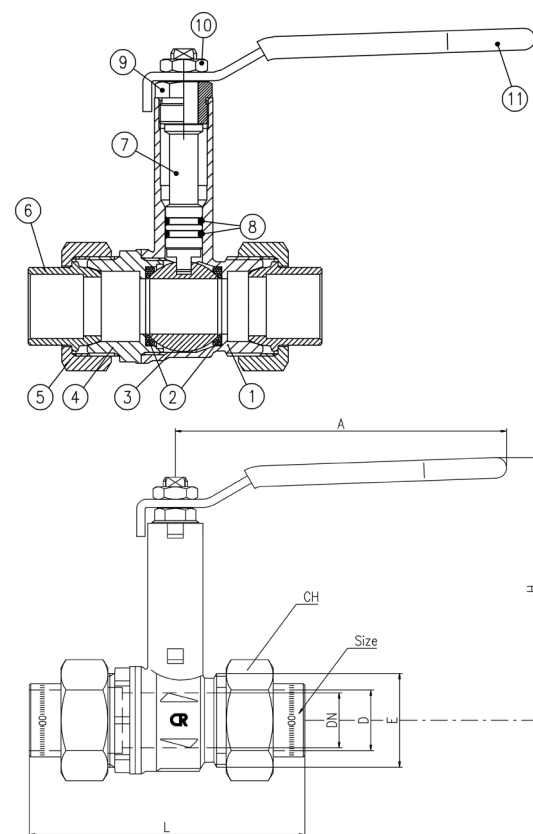


s.21 DZR XCES21 - 5466

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	Part description	Q.ty	Material
1	Unplated body	1	CW602N
2	Ball seat	2	PTFE
3	Chrome plated ball	1	CW602N
4	Unplated end-cap	1	CW602N
5	Unplated nut	2	CW617N
6	Unplated solder end hose	2	CC491K
7	Unplated extended stem O-ring design	1	CW602N
8	O-Ring	2	FPM
9	Unplated nut	1	CW617N
10	Geomet® nut	1	C4C (EN10263-2)
11	White PVC coated Geomet® steel handle	1	DD11 (EN10111)

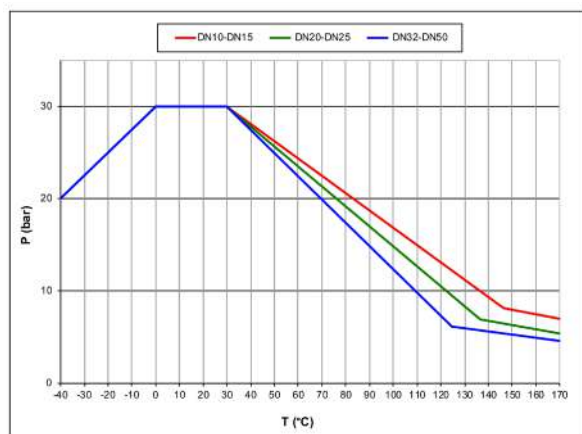


Hollow ball for D 35-42-54

Code	S21C12W	S21D15W	S21E18W	S21E22W	S21F28W	S21G35W	S21H42W	S21I54W
D (mm)	12	15	18	22	28	35	42	54
E (mm)	M22x1.5	M26x1.5	M34x1.5	M34x1.5	M40x2	M50x2	M55x2	M70x2
DN (mm)	10	15R	16R	20R	25R	32R	40R	50R
L (mm)	80	90	100	100	115	129	143	161
A (mm)	100	100	120	120	120	158	158	158
H (mm)	85	88	95	95	99	124	130	137
CH (mm)	26	30	38	38	46	55	62	78
Kv (m³/h)	9.6	28	42	42	70	80	125	179

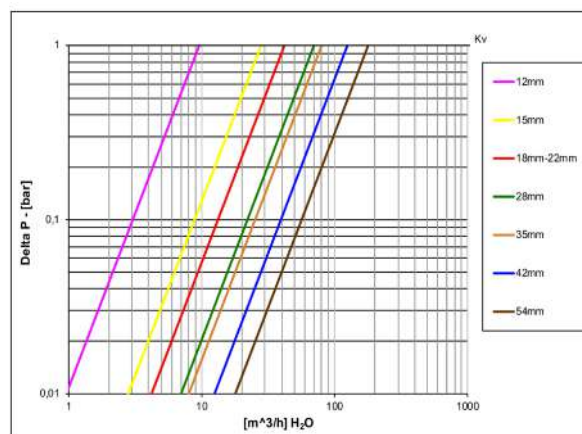
DN shows the nominal flow diameter.

PRESSURE-TEMPERATURE CHART



The given data of the pressure-temperature chart refer to the valve body

PRESSURE DROP CHART





s.24 DZR press ends

15 - 54 mm
dezincification-resistant

Time is of essence and valve technology has progressed to save time and ease on-site installation.

RuB s.24 DZR with press ends combines first class features of our s.24 which have been optimized through years of field experience and innovative press fittings which can be pressed with all pressing jaws and tools provided for metal connections type M and V.

Be kind with yourself, make sure the valve that brings you pure fresh water is an **RuB** DZR ball valve. Press-end couplings are made of bronze, a material well known for its suitability to the press operation. Each coupling assembly is seal tested at the plant.



QUALITY

- 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stress at stem
- Chrome plated DZR brass ball for longer life

BODY

- Hot forged sand blasted DZR unplated body and cap sealed with Loctite® or equivalent threads sealant
- Dezincification resistant ADZ-T and ADZ-P brass approved to SBN-PFS 1983:2 and NR-BFS 1988:18 specifications

STEM

- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Blowout-proof unplated DZR brass stem

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

CONNECTIONS

- Press ends connections to EN 1254-4 approved by DVGW

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 16 bar (230 PSI) non-shock cold working pressure
- -20°C to +120°C (-4°F to +250°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom Design

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- GOST-R (Russia)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle ①
- Patented locking device ②
- Stainless steel handle (1.4016 / AISI 430) ③
- **RuB** memory stop designed to be installed with our stubby handle
- T-handle ④
- CW617N brass body and components ⑤
- Brass stem extension ⑤
- Stubby handle



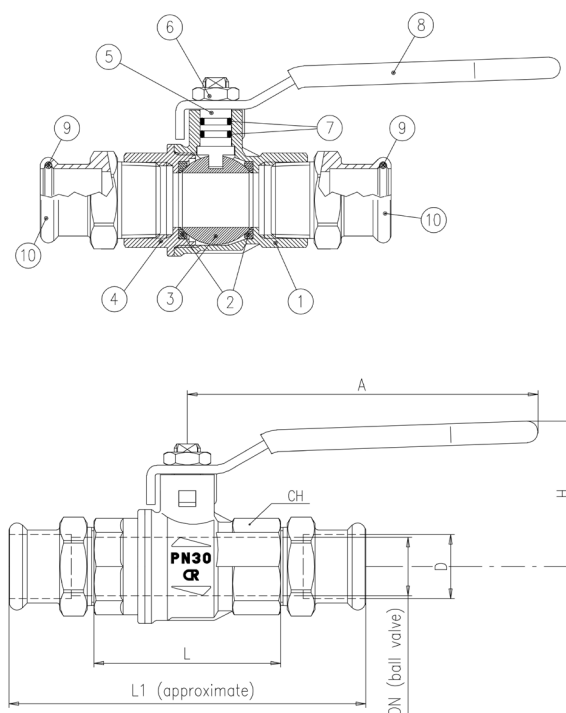
s.24 DZR PRESS ENDS XCES24C - 5466

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	Part description	Q.ty	Material
1	Unplated body	1	CW602N
2	Ball seat	2	PTFE
3	Chrome plated ball	1	CW602N
4	Unplated end-cap	1	CW602N
5	Unplated stem O-ring design	1	CW602N
6	Geomet® nut	1	CB4FF (EN10263-2)
7	O-Ring	2	FPM
8	White PVC coated Geomet® steel handle	1	DD11 (EN10111)
9	O-Ring	2	EPDM
10	Unplated press end connection	2	CW724R

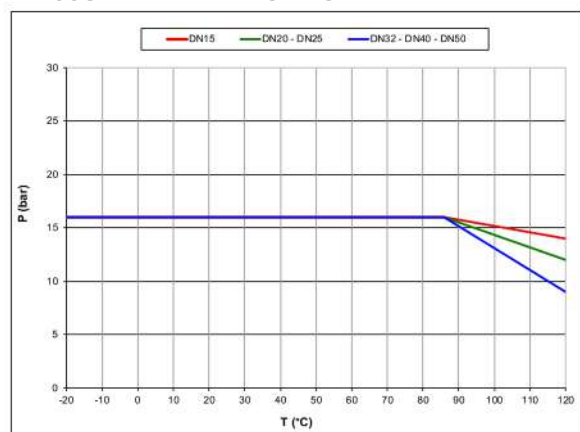
35-54 mm hollow ball



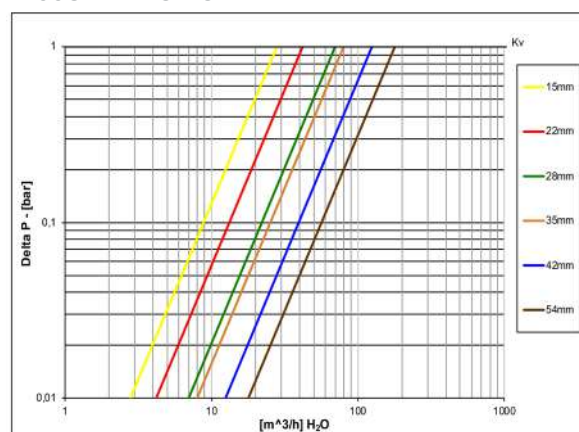
Code	S24DC15	S24EC22	S24FC28	S24GC35	S24HC42	S24IC54
D (mm)	15	22	28	35	42	54
DN (mm)	15	20	25	32	40	50
L (mm)	59	64	81	93	102	121
L1 (mm)	118	123	146	164	187	220
A (mm)	100	120	120	158	158	158
H (mm)	43	50	54	73	79	86
CH (mm)	25	31	40	49	54	68,5
Kv (m3/h)	28	42	70	80	125	179

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.24 DZR

**Female/Female
1/2" - 4"**

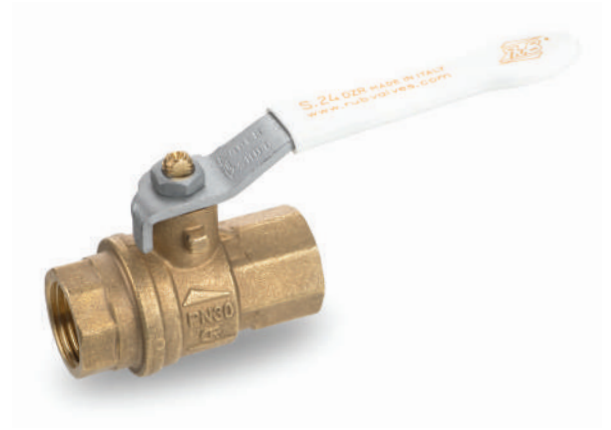
EN 10226-1, dezincification-resistant

Several governmental authorities recommend use of special alloys for valves handling water in areas where there is a problem of dezincification.

RuB DZR valves are designed to meet such requirements.

Through the use of new technology these valves retain the reliability and competitiveness of brass, but are comparable to bronze in corrosion resistance.

Be kind with yourself, make sure the valve that brings you pure fresh water is an **RuB** DZR valve.



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated DZR brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted DZR unplated body and cap sealed with Loctite® or equivalent thread sealant
- Dezincification resistant ADZ-T and ADZ-P brass approved to SBN-PFS 1983:2 and NR-BFS 1988:18 specifications

STEM

- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Blowout-proof unplated DZR brass stem

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO 228 parallel female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 bar (450 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Crimp/press end connections
- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- GOST-R (Russia)
- KIWA Regulation 4 a.k.a. KUKreg4 (United Kingdom)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- Water Regulations Advisory Scheme (United Kingdom)

- **NOTE:** approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle up to 2", round over 2" **1**
- Patented locking device **2**
- Stainless steel handle (1.4016 / AISI 430) **3**
- **RuB** memory stop designed to be installed with our stubby handle
- T-handle **4**
- CW617N brass body and components **5**
- Brass stem extension **5**
- Stubby handle up to 2"



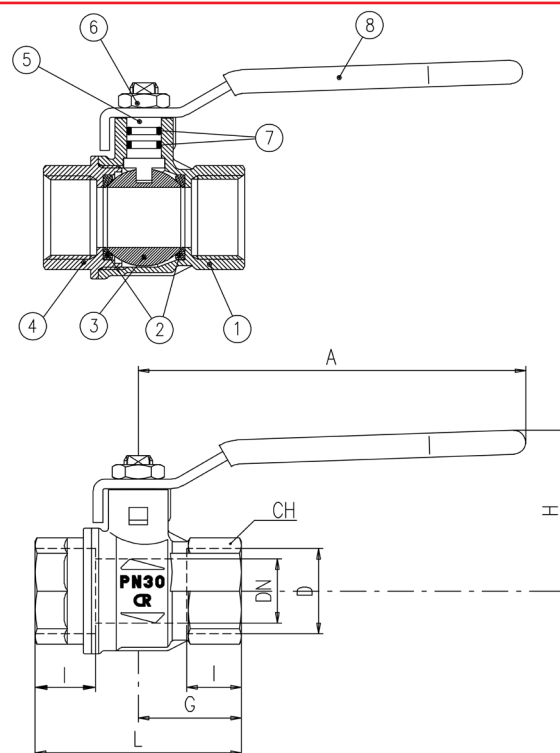
s.24 DZR XCES24 - 5466

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	Part description	Q.ty	Material
1	Unplated body	1	CW602N
2	Ball seat	2	PTFE
3	Chrome plated ball	1	CW602N
4	Unplated end-cap	1	CW602N
5	Unplated stem O-ring design	1	CW602N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	White PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/4"-2" hollow ball

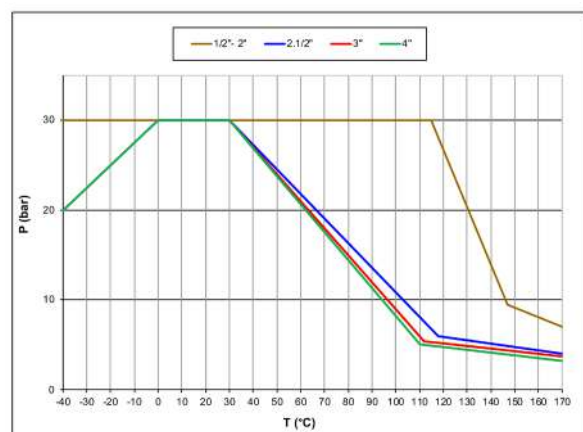


Code	S24D00	S24E00	S24F00	S24G00	S24H00	S24I00	S24L00	S24M00	S24N00
D (inch)	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
DN (mm)	15	20	25	32	40	50	65	80	100
I (mm)	15.5	17	21	23	23	26.5	32	35	41.5
L (mm)	59	64	81	93	102	121	156	177	216
G (mm)	29.5	32	40.5	46.5	51	60.5	78	88.5	108
A (mm)	100	120	120	158	158	158	255	255	255
H (mm)	43	50	54	73	79	86	132	140	154
CH (mm)	25	31	40	49	54	68.5	85	99	125
Kv (m³/h)	28	42	70	80	125	179	516	776	1130

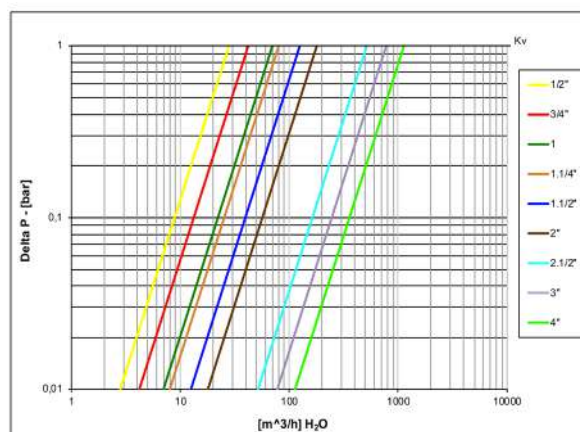
DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different.

Ball valves are marked CE on handle from 1 1/4" to 2", on body over 2" as follow: CE XXCODEXX Cat. I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.26 DZR

Female/Female

3/8" - 2"

ISO 228, for insulation, dezincification-resistant

Several governmental authorities recommend use of special alloys for valves handling water in areas where there is a problem of dezincification.

RuB DZR valves are designed to meet such requirements. Through the use of new technology these valves retain the reliability and competitiveness of brass, but are comparable to bronze in corrosion resistance.

Be kind with yourself, make sure the valve that brings you pure fresh water is an **RuB** DZR valve.



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated DZR brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted DZR unplated body and cap sealed with Loctite® or equivalent thread sealant
- Dezincification resistant ADZ-T and ADZ-P brass approved to SBN-PFS 1983:2 and NR-BFS 1988:18 specifications
- Extended stem forged in one piece with body allows perfect sealing and easy operation when valve is isolated

STEM

- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Unplated DZR brass stem

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 bar (450 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- CW617N brass body and components
- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design
- Male by female threads

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25 mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle **1**
- Patented locking device **2**
- Stainless steel handle (1.4016 / AISI 430) **3**
- **RuB** memory stop designed to be installed with our stubby handle
- T-handle **4**
- Short stem design **5**
- Stubby handle



s.26 DZR XCES26 - 5466

Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.



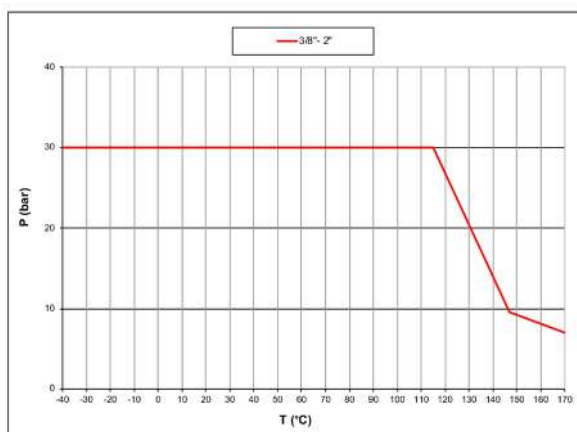
	Part description	Q.ty	Material
1	Unplated body	1	CW602N
2	Ball seat	2	PTFE
3	Chrome plated ball	1	CW602N
4	Unplated end-cap	1	CW602N
5	Unplated extended stem O-ring design	1	CW602N
6	O-Ring	2	FPM
7	Unplated nut	1	CW617N
8	Geomet® nut	1	C4C EN10263-2)
9	White PVC coated Geomet® steel handle	1	DD11 EN10111)

1 1/4"-2" hollow ball

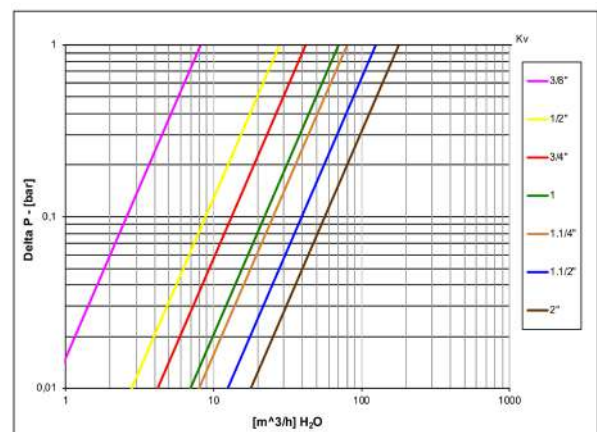
Code	S26B00	S26C00	S26D00	S26E00	S26F00	S26G00	S26H00	S26I00
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	9	9	11	12	14	15	17	19
L (mm)	39	39	50	54	67	77	90	106
G (mm)	19.5	19.5	25	27	33.5	38.5	45	53
A (mm)	100	100	100	120	120	158	158	158
H (mm)	85	85	88	95	99	124	130	137
CH (mm)	20	20	25	31	38	48	54	66
Kv (m3/h)	3.9	8.2	28	42	70	80	125	179

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.28 DZR

**12 - 54 mm compression ends
dezincification-resistant**

Several governmental authorities recommend use of special alloys for valves handling water in areas where there is a problem of dezincification.

RuB DZR valves are designed to meet such requirements. Through the use of new technology these valves retain the reliability and competitiveness of brass, but are comparable to bronze in corrosion resistance.

Be kind with yourself, make sure the valve that brings you pure fresh water is an **RuB** DZR valve.



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stress at stem
- Chrome plated DZR brass ball for longer life

BODY

- Hot forged sand blasted DZR unplated body and cap sealed with Loctite® or equivalent thread sealant
- Dezincification resistant ADZ-T and ADZ-P brass approved to SBN- PFS 1983:2 and NR-BFS 1988:18 specifications

STEM

- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Blowout-proof unplated DZR brass stem

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

CONNECTIONS

- Compression ends to EN 1254-2 and NKB no.12

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 16 bar (230 PSI) non-shock cold working pressure
- -20°C to +120°C (-4°F to +250°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- GOST-R (Russia)
- KIWA Regulation 4 a.k.a. KUKreg4 (United Kingdom) for sizes 12mm through 35mm
- Kiwa-Swedcert (Sweden)
- Ri.se. / Boverket (Sweden)
- Water Regulations Advisory Scheme (United Kingdom) for sizes 12mm through 35mm

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle ①
- Patented locking device ②
- Stainless steel handle (1.4016 / AISI 430) ③
- **RuB** memory stop designed to be installed with our stubby handle
- T-handle ④
- Compression ends with extended stem for insulation ⑤
- Brass stem extension ⑤
- Stubby handle

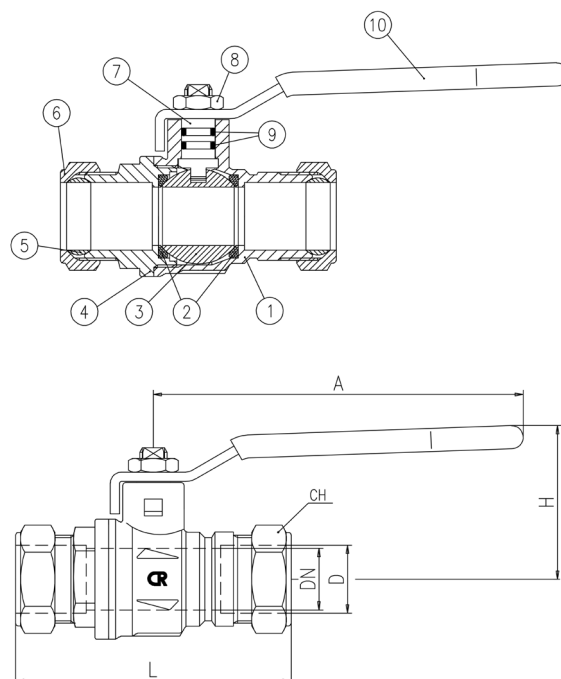


s.28 DZR XCES28 - 5466

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	Part description	Q.ty	Material
1	Unplated body	1	CW602N
2	Ball seat	2	PTFE
3	Chrome plated ball	1	CW602N
4	Unplated end-cap	1	CW602N
5	Olive	2	CW603N - CW508L - CW602N
6	Unplated nut	2	CW617N
7	Unplated stem O-ring design	1	CW602N
8	Geomet® nut	1	C4C (EN10263-2)
9	O-Ring	2	FPM
10	White PVC coated Geomet® steel handle	1	DD11 (EN10111)

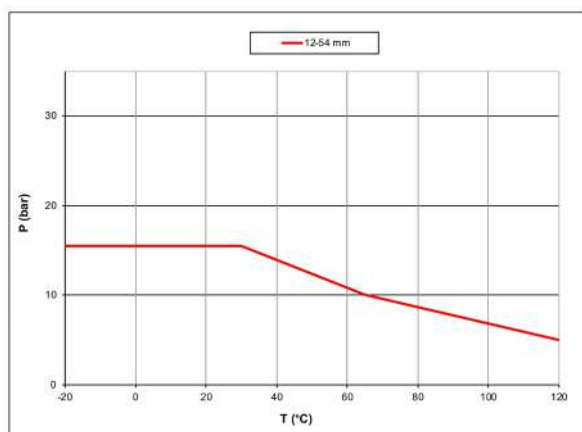


Hollow ball for D 35-42-54

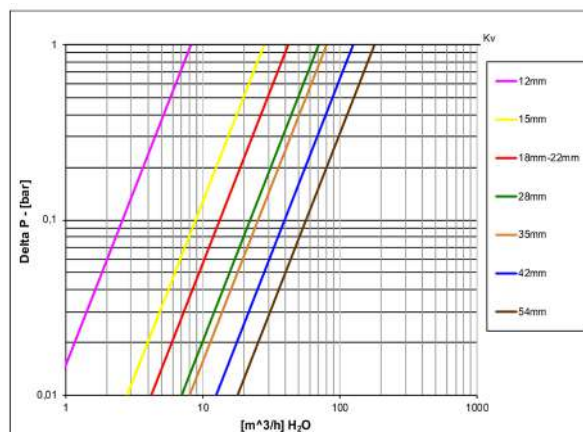
Code	S28C12	S28D15	S28D18	S28E22	S28F28	S28G35	S28H42	S28I54
D (mm)	12	15	18	22	28	35	42	54
DN (mm)	10	15R	20R	20R	25R	32R	40R	50R
L (mm)	67	72	78.5	79	90.5	110	128.5	142
A (mm)	100	100	100	120	120	158	158	158
H (mm)	38	43	43	50	54	73	79	86
CH (mm)	19	24	27	32	38.5	48	54	70
Kv (m³/h)	8.2	28	28	42	70	80	125	179

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.30 DZR

**12 - 54 mm compression ends
for insulation
dezincification-resistant**

Several governmental authorities recommend use of special alloys for valves handling water in areas where there is a problem of dezincification.

RuB DZR valves are designed to meet such requirements. Through the use of new technology these valves retain the reliability and competitiveness of brass, but are comparable to bronze in corrosion resistance.

Be kind with yourself, make sure the valve that brings you pure fresh water is an **RuB** DZR valve.



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stress at stem
- Chrome plated DZR brass ball for longer life

BODY

- Hot forged sand blasted DZR unplated body and cap sealed with Loctite® or equivalent thread sealant
- Dezincification resistant ADZ-T and ADZ-P brass approved to SBN-PFS 1983:2 and NR-BFS 1988:18 specifications
- Extended stem forged in one piece with body allows perfect sealing and easy operation when valve is isolated

STEM

- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Unplated DZR brass stem

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

CONNECTIONS

- Compression ends to EN 1254-2 and NKB no.12

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 16 bar (230 PSI) non-shock cold working pressure
- -20°C to +120°C (-4°F to +250°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- The product described in this document meets the requirements of the PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25 mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- GOST-R (Russia)
- Kiwa-Swedcert (Sweden)
- Ri.se. / Boverket (Sweden)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle ①
- Patented locking device ②
- Stainless steel handle (1.4016 / AISI 430) ③
- T-handle ④
- **RuB** memory stop designed to be installed with our stubby handle
- Short stem design ⑤
- Stubby handle



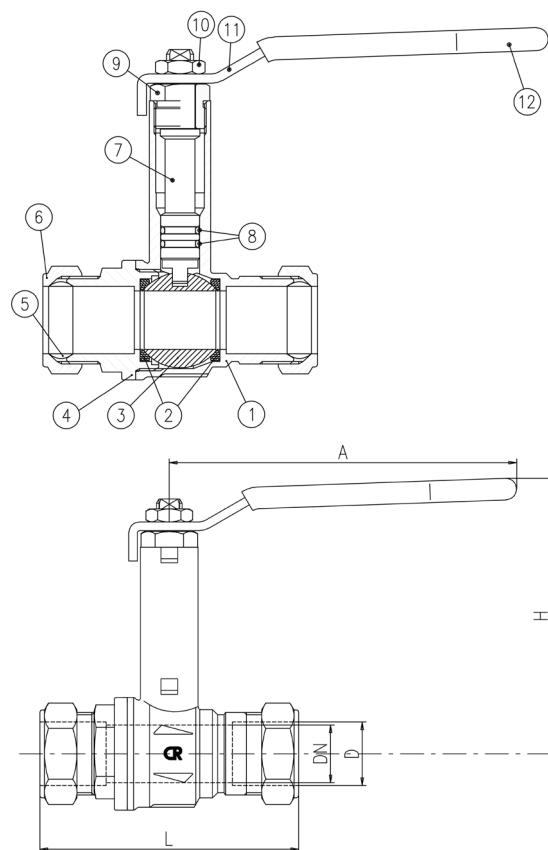
s.30 DZR XCES30 - 5466

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	Part description	Q.ty	Material
1	Unplated body	1	CW602N
2	Ball seat	2	PTFE
3	Chrome plated ball	1	CW602N
4	Unplated end-cap	1	CW602N
5	Olive	2	CW603N - CW508L - CW602N
6	Unplated nut	2	CW617N
7	Unplated extended stem O-ring design	1	CW602N
8	O-Ring	2	FPM
9	Unplated nut	1	CW617N
10	Geomet® nut	1	C4C (EN10263-2)
11	White PVC coated Geomet® steel handle	1	DD11 (EN10111)

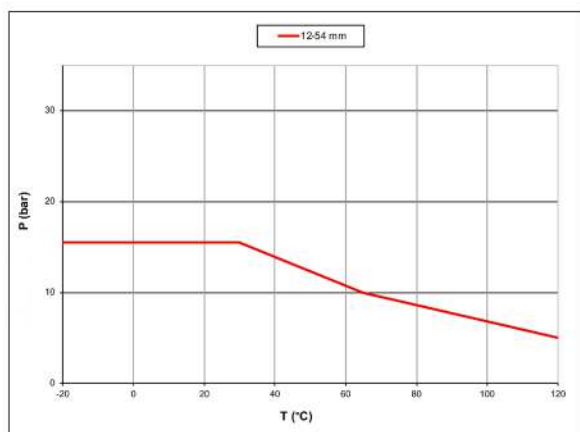
Hollow ball for D 35-42-54



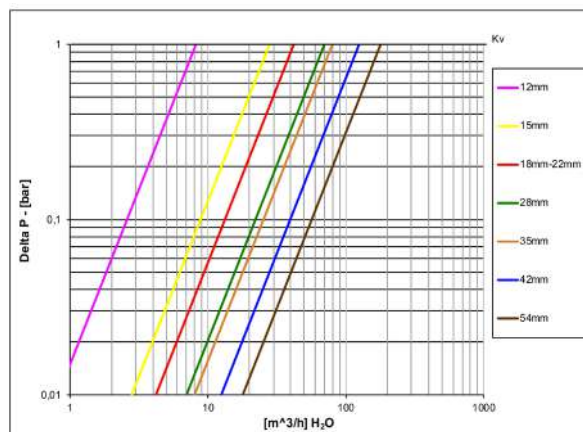
Code	S30C12	S30D15	S30D18	S30E22	S30F28	S30G35	S30H42	S30I54
D (mm)	12	15	18	22	28	35	42	54
DN (mm)	10	15R	15R	20R	25R	32R	40R	50R
L (mm)	67	72	78.5	79	90.5	110	128.5	142
A (mm)	100	100	100	120	120	158	158	158
H (mm)	85	88	88	95	99	124	130	137
CH (mm)	19	24	27	32	38.5	48	54	70
Kv (m³/h)	8.2	28	28	42	70	80	125	179

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.84 W

Female/Female
1/4" - 2"
EN 10226-1

Legionella is a bacterium that lives and proliferates in natural and artificial aquatic environments at temperatures ranging between 5.7°C and 55°C and standing up to acidic and alkaline environments. New s.84W is approved for use with drinking water; the specific ball design avoids water stagnation and the spread of bacteria in the system.



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stress at stem
- Chrome plated brass ball with rinse hole

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double EPDM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1 parallel female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

OPTIONS

- Patented locking device **1**
- T-handle **2**
- Stubby handle
- Stem extension
- **RuB** memory stop designed to be installed with our stubby handle

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- DIN-EN 13828 limitations for potable water: 10 bar (Kg/cm²) non- shock cold working pressure and +65°C temperature (occasional excursions up to 90°C are permitted for a period of 1 h maximum)
- -40°C to +150°C (-40°F to +302°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Glass filled PTFE seals
- Stainless steel handle (1.4016 / AISI 430)
- Special configuration for industrial oxygen application
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- GOST-R (Russia)
- DVGW (Germany)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- Water Regulations Advisory Scheme (United Kingdom)
- Attestation de Conformité Sanitaire (France)

NOTE: approvals apply to specific configurations/sizes only.



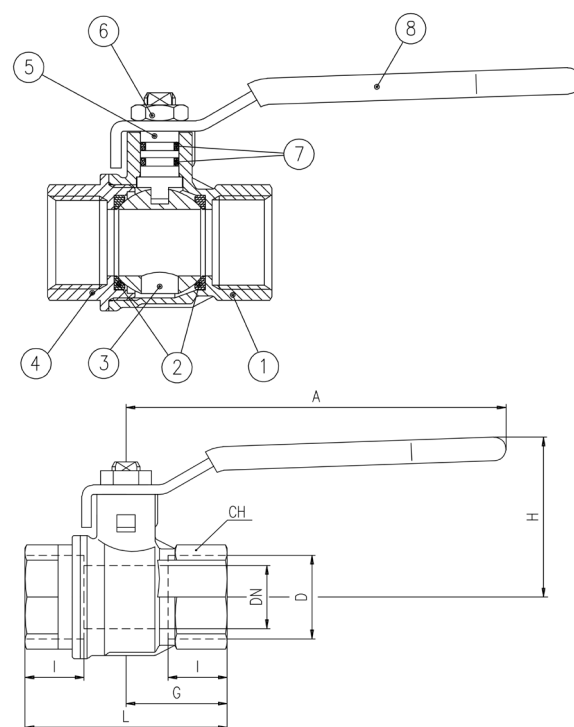
s.84 W XCES84W - 5466

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	Part description	Q.ty	Material
1	Nickel plated body (external treatment)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole (rinse hole on sizes from 3/4" up to 2")	1	CW617N
4	Nickel plated end-cap (external treatment)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	EPDM
8	Green PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/4" to 2" hollow ball

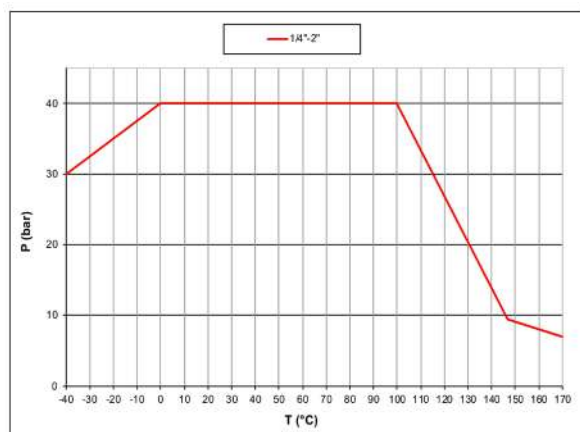


Code	S84B00W	S84C00W	S84D00W	S84E00W	S84F00W	S84G00W	S84H00W	S84I00W
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN(mm)	8	10	15	20	25	32	40	50
I (mm)	12	12	15,5	17	21	23	23	26,5
L (mm)	45	45	59	64	81	93	102	121
G (mm)	22,5	22,5	29,5	32	40,5	46,5	51	60,5
A (mm)	82	82	100	120	120	158	158	158
H (mm)	38	38	43	50	54	73	79	86
CH (mm)	17	20	25	31	40	49	54	68,5
Kv(m3/h)	3,9	8,2	28	36	62	79	124	178

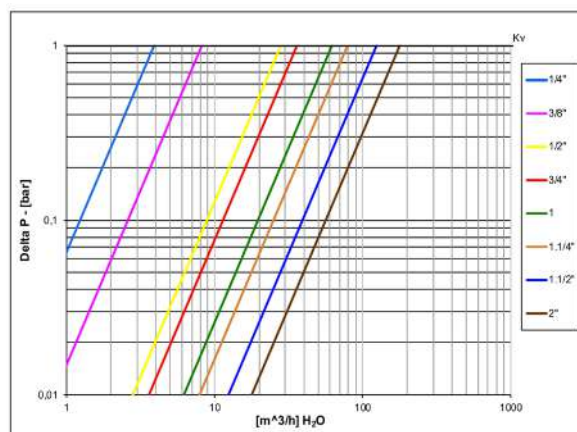
DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

Ball valves are marked CE on handle from 1 1/4" to 2" as follow: CE XXCODEXX Cat I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.84 W M/F

Male/Female
1/4" - 2"
EN 10226-1

Legionella is a bacterium that lives and proliferates in natural and artificial aquatic environments at temperatures ranging between 5.7°C and 55°C and standing up to acidic and alkaline environments. New s.84W is approved for use with drinking water; the specific ball design avoids water stagnation and the spread of bacteria in the system.



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stress at stem
- Chrome plated brass ball with rinse hole

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double EPDM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1 taper male by parallel female

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- DIN-EN 13828 limitations for potable water: 10 bar (Kg/cm²) non- shock cold working pressure and +65°C temperature (occasional excursions up to 90°C are permitted for a period of 1 h maximum)
- -40°C to +150°C (-40°F to +302°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Glass filled PTFE seals
- Stainless steel handle (1.4016 / AISI 430)
- Special configuration for industrial oxygen application
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- GOST-R (Russia)
- DVGW (Germany)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- Water Regulations Advisory Scheme (United Kingdom)
- Attestation de Conformité Sanitaire (France)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Patented locking device **1**
- T-handle **2**
- Stubby handle
- Stem extension
- **RuB** memory stop designed to be installed with our stubby handle



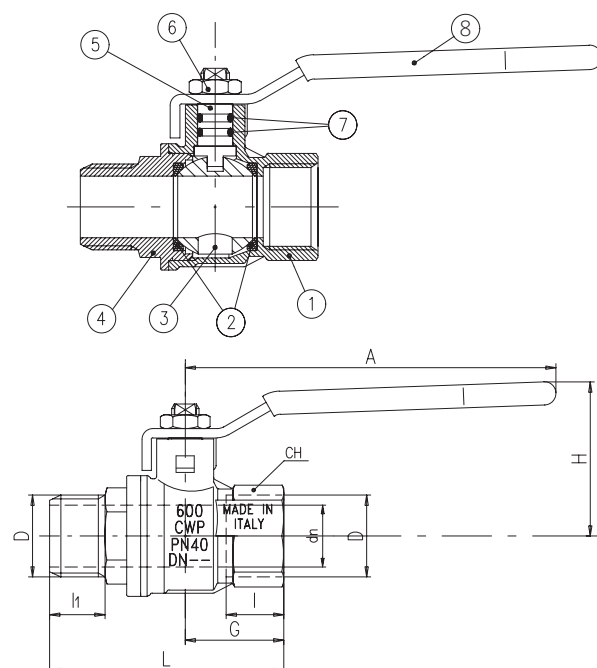
s.84 W MF XGES84WM - 5466

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	Part description	Q.ty	Material
1	Nickel plated body (external treatment)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole (rinse hole on sizes from 3/4" up to 2")	1	CW617N
4	Nickel plated end-cap (external treatment)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	EPDM
8	Green PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/4" to 2" hollow ball

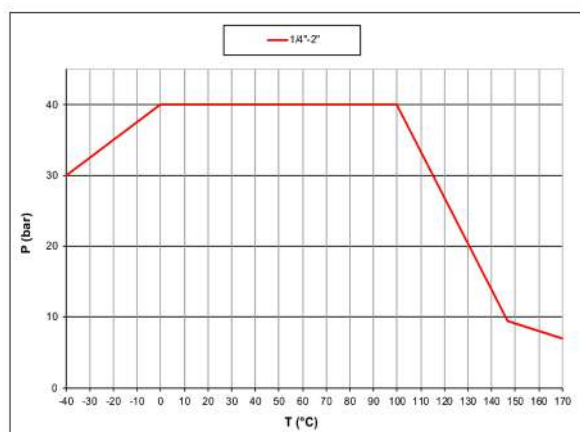


Code	S84B20W	S84C20W	S84D20W	S84E20W	S84F20W	S84G20W	S84H20W	S84I20W
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	12	12	15.5	17	21	23	23	26.5
I1 (mm)	13.5	13.5	16.5	18	22	24	24	27.5
L (mm)	56.5	56.5	70	76.5	92.5	106	113	133
G (mm)	22.5	22.5	29.5	32	40.5	46.5	51	60.5
A (mm)	82	82	100	120	120	158	158	158
H (mm)	38	38	43	50	54	73	79	86
CH (mm)	17	20	25	31	40	49	54	68.5
Kv (m3/h)	3.9	8.2	28	36	62	79	124	178

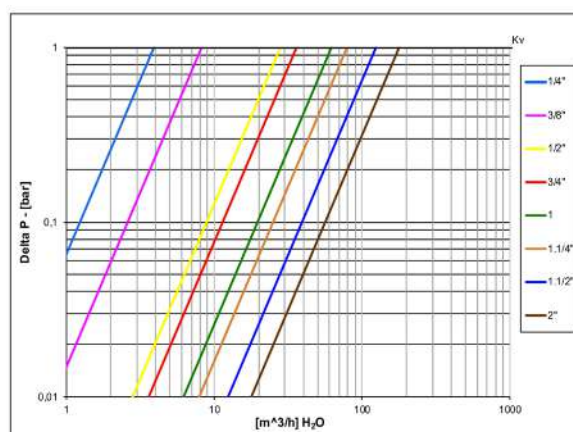
DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

Ball valves are marked CE on handle from 1 1/4" to 2" as follow: CE XXCODEXX Cat I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.84W M/F

**Male/Female
3/4"
for flat gasket**

Legionella is a bacterium that lives and proliferates in natural and artificial aquatic environments at temperatures ranging between 5.7°C and 55°C and standing up to acidic and alkaline environments.

New s.84AW is approved for use with drinking water; the specific ball design avoids water stagnation and the spread of bacteria in the system.



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- The valve is provided with a flat sealing surface at male thread that offers an improved performance compared to conventional connections; a wider seal surface guarantees higher sealing, reliable over time
- No metal-to-metal moving parts
- No maintenance ever required
- T-handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stress at stem
- Chrome plated brass ball with rinse hole

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double EPDM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1, ISO228 parallel female by ISO228 male threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Aluminum T-handle enameled green or red
- T-handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- DIN-EN 13828 limitations for potable water: 10 bar (Kg/cm²) non-shock cold working pressure and +65°C temperature (occasional excursions up to 90°C are permitted for a period of 1 h maximum)
- -40°C to +150°C (-40°F to +302°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stem extension
- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

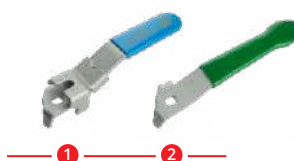
APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- GOST-R (Russia)
- DVGW (Germany)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- Attestation de Conformité Sanitaire (France)

NOTE: approvals apply to specific configurations/sizes only

OPTIONS

- Patented locking device ^①
- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection ^②
- Stubby handle
- **RuB** memory stop designed to be installed with our stubby handle



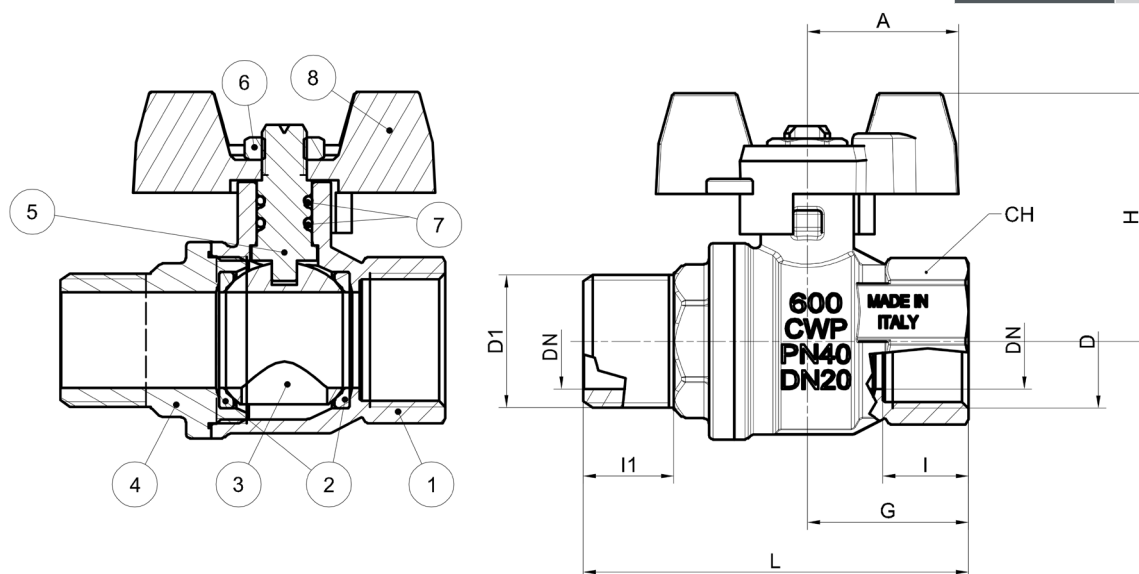
s.84 W MF FLAT GASKET XCES84AW - 5466

Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.



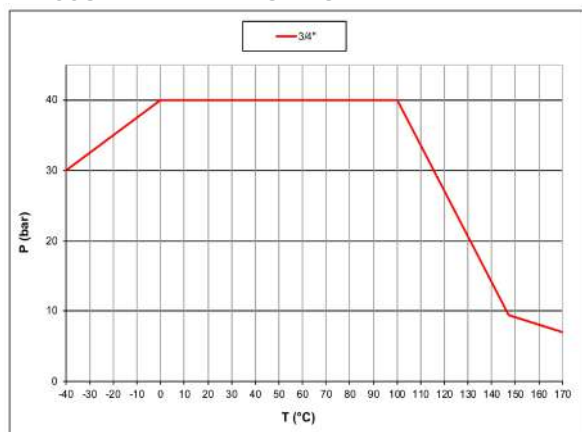
	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole	1	CW617N
4	Nickel plated male end-cap (external nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	EPDM
8	Green or red T-handle	1	EN AC-46100

Code	S84E26AW	S84E26AWR
D (inch)	Rp 3/4" (EN10226 - ISO228)	Rp 3/4" (EN10226 - ISO228)
D1 (inch)	G3/4" B (ISO228)	G3/4" B (ISO228)
DN (mm)	19	19
I (mm)	17	17
I1 (mm)	18	18
L (mm)	76,5	76,5
G (mm)	32	32
A (mm)	30	30
H (mm)	49	49
CH (mm)	31	31
T-handle	Green	Red
Kv (m3/h)	36	36

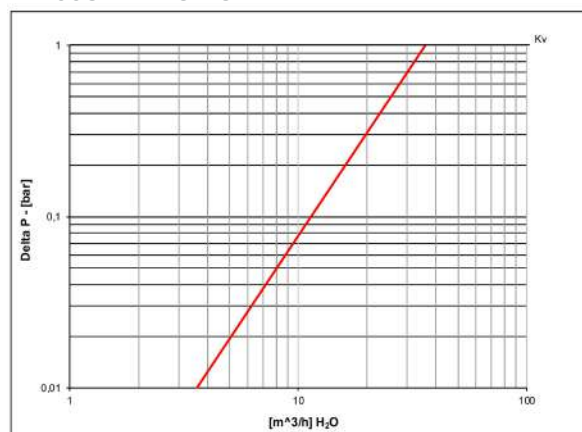


DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART



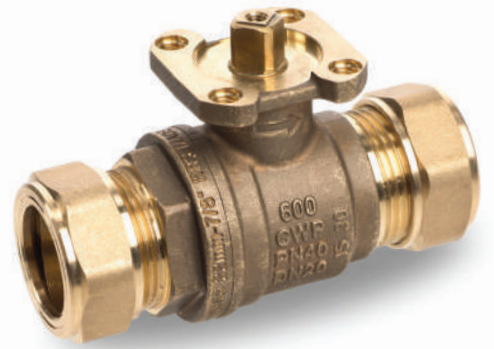


S.468LF DZR

22 mm compression ends

ISO 5211

Lead-Free, dezincification-resistant



QUALITY

- 100% seal test guaranteed
- Arrow on the valve body clearly shows the flow direction
- No metal-to-metal moving parts
- No maintenance ever required
- Stem clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated DZR and lead free brass ball for longer life and with antifreeze function

BODY

- Hot forged sand blasted DZR and lead free unplated body and cap sealed with Loctite® or equivalent thread sealant
- Dezincification-resistant and lead free brass in compliance with HCACL Hygienic copper alloy composition (UBA list)

STEM

- Maintenance-free, double EPDM O-rings at the stem for maximum safety
- Blowout-proof unplated DZR and lead free brass stem

SEALING

- EPDM seats for lower torque

THREADS

- Compression ends to EN 1254-2

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Integrated sturdy ISO 5211 flange allows direct mounting of electric and pneumatic actuators, with no bracket or coupling required. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- Shell rating: 40 bar (600 PSI) non-shock cold working pressure
- Seat rating/compression ends: 16 bar max (230 PSI max) non-shock cold working pressure (see chart for pressure/temperature limits)
- -20°C to +120°C (-4°F to +250°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- Certified by CSA International for Drinking Water to NSF/ANSI 372 (United States)
- Water Regulations Advisory Scheme (United Kingdom)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- S.468 DZR and lead free 7/8" compression ends
- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact power electric actuator
- Manual lockable handle

s.468LF DZR XCES468 - 5466

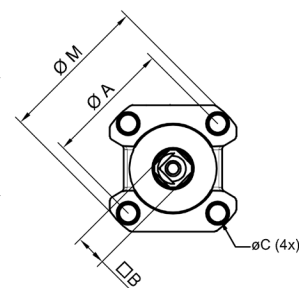
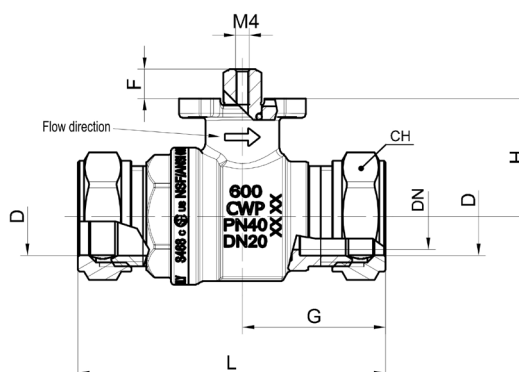
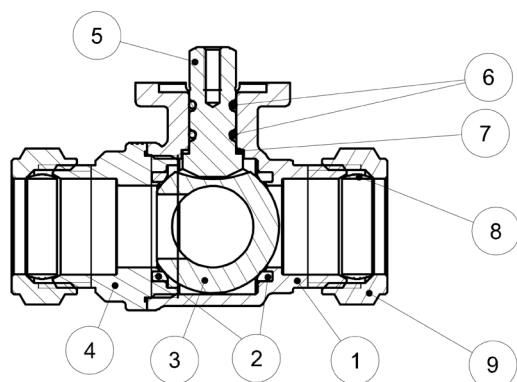
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	Part description	Q.ty	Material
1	Unplated body	1	CW511L
2	Seat	2	EPDM
3	Chrome plated ball	1	CW511L
4	Unplated end-cap	1	CW511L
5	Unplated stem	1	CW511L
6	O-Ring	2	EPDM
7	Washer	1	PTFE carbon filled 25%
8	Olive	2	CW508L
9	Unplated nut	2	CW617N

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

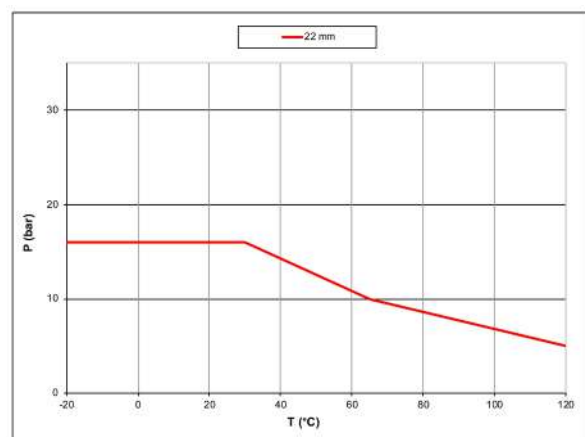
Code	S468E22
D (inch)	22
DN(mm)	19
L (mm)	87,5
G (mm)	40,7
H (mm)	33,5
ØA (mm)	36
ØC (mm)	Ø5.2 (M6)
Square B (mm)	9
ØM (mm)	43,4
F (mm)	8,3
CH (mm)	32
Kv (m3/h)	36



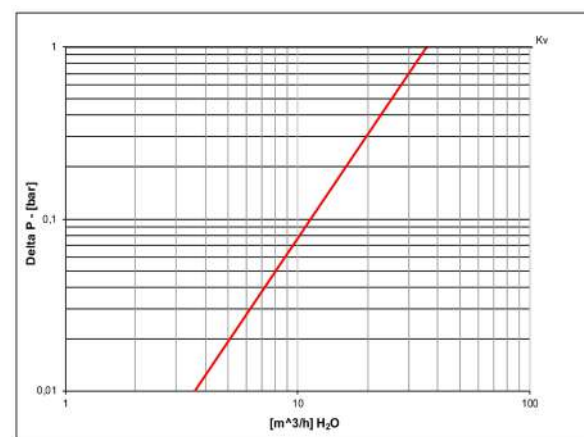
TORQUE FOR ACTUATOR SIZING N.M

Delta P -->	0÷6 bar	6÷16 bar
Valve size	to open/to close	to open/to close
22 mm	2,5	3

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





Puri-T 292 NPT

Female/Female
1/4" - 2"
Lead Free

All surfaces of this product in contact with drinking water contain less than 0.25% of lead in compliance with U.S. law



QUALITY

- Certified by CSA International to comply with U.S. s3874, California AB1953, and similar laws of other states for the safe handling of drinking water
- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, unplated lead free brass body and cap sealed with Loctite® or equivalent thread sealant
- Chrome plated lead free brass ball for longer life

STEM

- Pure PTFE adjustable packing gland and reinforced washer for lower torque and easy maintenance
- Blowout-proof unplated lead free brass stem

SEALING

- Glass filled pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both Thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 600 PSI non-shock cold working pressure
- For general use: -40°F / +350°F (-40°C to +170°C)
- NSF 61 limits (CSA approval): tested for use in continuous exposure to water of ambient temperature
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design
- Pure PTFE seals

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- Certified by CSA International for Drinking Water to NSF/ANSI 61 – NSF/ANSI 372 (United States)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle **1**
- Patented locking device **2**
- Stem extension
- Stainless steel handle (1.4016 / AISI 430) **3**
- Stubby handle **4**
- T-handle **5**



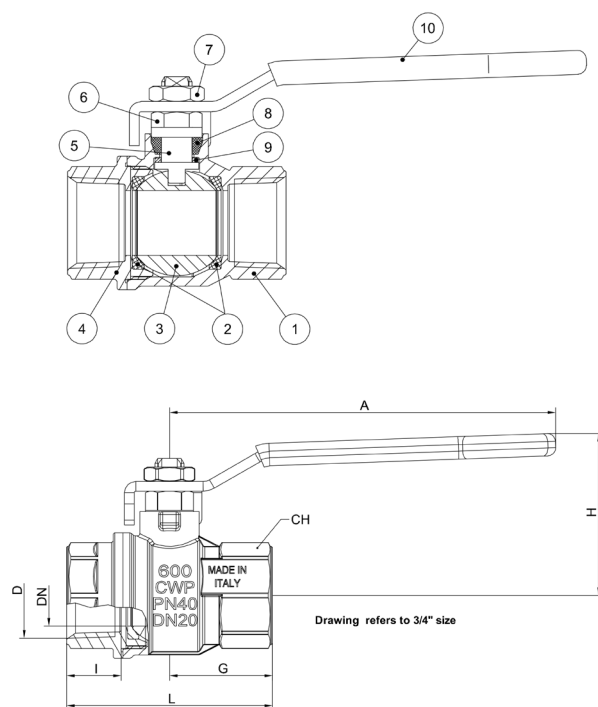
PURI-T 292 NPT XCET292 - 5466

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Part description		Q.ty	Material
1	Unplated NPT body	1	CW510L
2	Seat	2	PTFE glass filled 5-15%
3	Chrome plated ball	1	CW510L
4	Unplated NPT end-cap	1	CW510L
5	Unplated stem packing gland design	1	CW510L
6	Nickel plated gland nut	1	CW617N
7	Geomet® nut	1	CB4FF (EN10263-2)
8	Packing gland seal	1	PTFE
9	Thrust washer	1	PTFE carbon filled 25%
10	Green PVC coated Geomet® steel handle	1	DD11 (EN10111)

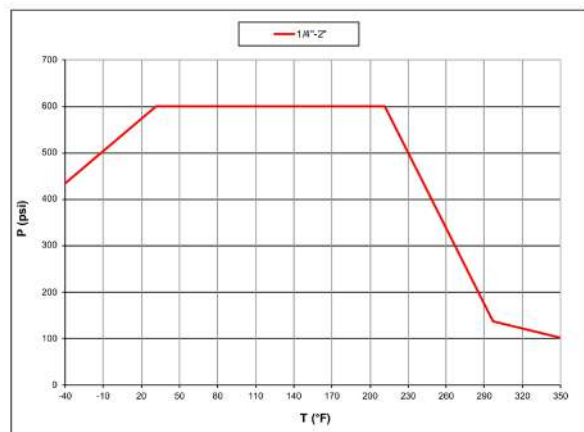
1 1/2"-2" hollow ball



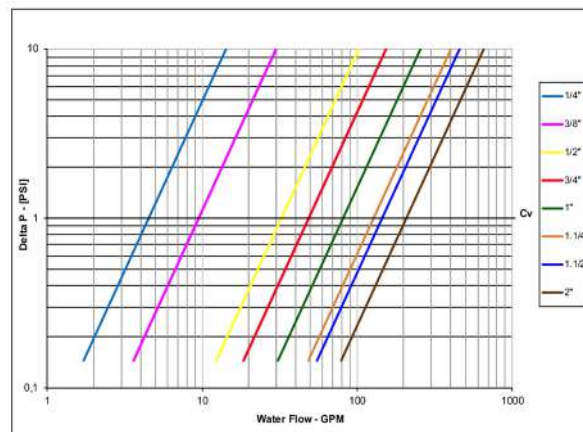
Code	T292B41	T292C41	T292D41	T292E41	T292F41	T292G41	T292H41	T292I41
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN (inch)	0.315	0.374	0.591	0.748	0.945	1.181	1.496	1.890
I (inch)	0.472	0.472	0.610	0.669	0.827	0.906	0.906	1.043
L (inch)	1.772	1.772	2.323	2.520	3.189	3.661	4.016	4.764
G (inch)	0.886	0.886	1.161	1.259	1.594	1.831	2.007	2.381
A (inch)	3.228	3.228	3.937	4.724	4.724	6.220	6.220	6.220
H (inch)	1.575	1.575	1.693	1.968	2.165	2.992	3.228	3.504
CH (inch)	0.669	0.787	0.984	1.220	1.574	1.929	2.126	2.697
Cv (GPM)	4.5	9.5	32.3	48.5	80.9	127.1	144.4	206.8

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





Puri-T 242

1/2" - 2"
Lead Free
solder ends

All surfaces of this product in contact with drinking water contain less than 0.25% of lead in compliance with U.S. law



QUALITY

- Certified by CSA International to comply with U.S. s3874, California AB1953, and similar laws of other states for the safe handling of drinking water
- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated lead free brass ball for longer life
- Handle stops on body to avoid stresses at stem

BODY

- Hot forged sand blasted, unplated lead free brass body and cap sealed with Loctite® or equivalent thread sealant

STEM

- Pure PTFE adjustable packing gland and reinforced PTFE washer for lower torque and easy maintenance
- Blowout-proof unplated lead free brass stem

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

CONNECTIONS

- Solder-end ANSI B16.18 female by female connections

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 600 PSI (for solder joints rating see table 1) non-shock cold working pressure
- For general use: -4°F / +350°F (for solder joints rating see table 1)
- NSF 61 limits (CSA approval): tested for use in continuous exposure to water of ambient temperature
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Glass filled PTFE seals
- Stainless steel handle (1.4016 / AISI 430)
- Custom design

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- Certified by CSA International for Drinking Water to NSF/ANSI 61 – NSF/ANSI 372 (United States)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle ①
- Patented locking device ②
- Stem extension (assemble after soldering)
- Stubby handle ③
- T-handle ④

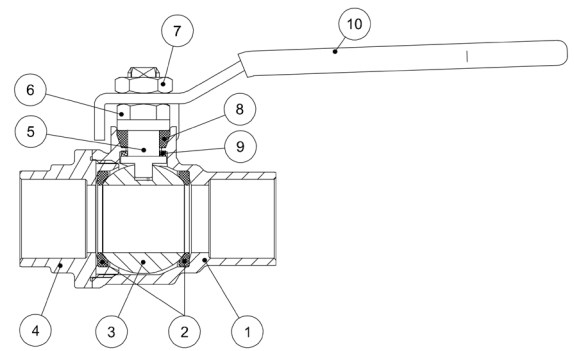


PURI-T 242 XCET242 - 5466

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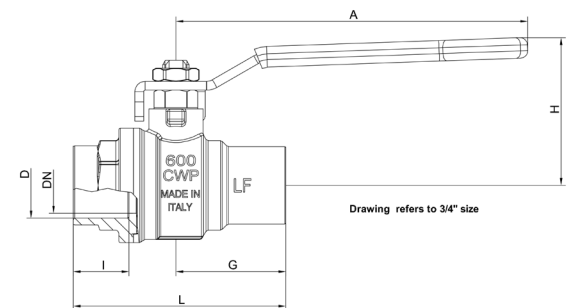


Part description		Q.ty	Material
1	Unplated solder end body	1	CW510L
2	Seat	2	PTFE
3	Chrome plated ball	1	CW510L
4	Unplated solder end-cap	1	CW510L
5	Unplated stem packing gland design	1	CW510L
6	Nickel plated gland nut	1	CW617N
7	Geomet® nut	1	CB4FF (EN10263-2)
8	Packing gland seal	1	PTFE
9	Thrust washer	1	PTFE carbon filled 25%
10	Green PVC coated Geomet® steel handle	1	DD11 (EN10111)



1 1/2"-2" hollow ball

Code		T242D00	T242E00	T242F00	T242G00	T242H00	T242I00
D (inch)	Nominal	1/2	3/4	1	1 1/4	1 1/2	2
	Actual	0,6271	0,8771	1,1279	1,3779	1,6279	2,1279
DN (inch)		0,551	0,748	0,944	1,181	1,496	1,889
I (inch)		0,492	0,748	0,905	0,964	1,102	1,338
L (inch)		2,244	2,854	3,346	3,819	4,488	5,433
G (inch)		1,181	1,476	1,673	1,909	2,244	2,716
A (inch)		3,937	4,724	4,724	6,22	6,22	6,22
H (inch)		1,693	1,968	2,165	2,992	3,228	3,504
Cv (GPM)		32,3	48,5	80,9	127,1	144,4	206,8



DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

TABLE 1 PRESSURE - TEMPERATURE RATINGS										
Joining material	Melting range degrees		Working temperature degrees		Maximum working gauge pressure					
					Size 1/8" - 1"		Size 1 1/4" - 2"		Size 2 1/2" - 4"	
	°F	°C	°F	°C	PSI	kPa	PSI	kPa	PSI	kPa
50-50 tin-lead solder* ASTM B32 alloy grade 50 A	361/421	185/215	0/+100	-18/+38	200	1400	176	1200	150	1050
			0/+150	-18/+66	150	1050	125	850	100	700
			0/+200	-18/+93	100	700	90	600	75	500
			0/+250	-18/+121	85	600	75	500	50	350
95-5 tin-antimony solder ASTM B32 alloy grade 95TA	450/464	230/240	0/+100	-18/+38	500**	3500**	400**	2800**	300**	2100**
			0/+150	-18/+66	400**	2800**	350**	2400**	275**	2000**
			0/+200	-18/+93	300**	2100**	250**	1700**	200	1400
			0/+250	-18/+121	200	1400	175	1200	150	1050

Note:

Above stated limits are not imposed by the valve, but by the strength of the soldering joint according to ASME B16.22. * This alloy contains more than 0,2% lead and, according to certain specifications, cannot be used for potable water or other foods.

** Soldered copper tube joints have been tested at 230 PSI (1600 kPa) in accordance with ISO 2016

PRESSURE-TEMPERATURE CHART

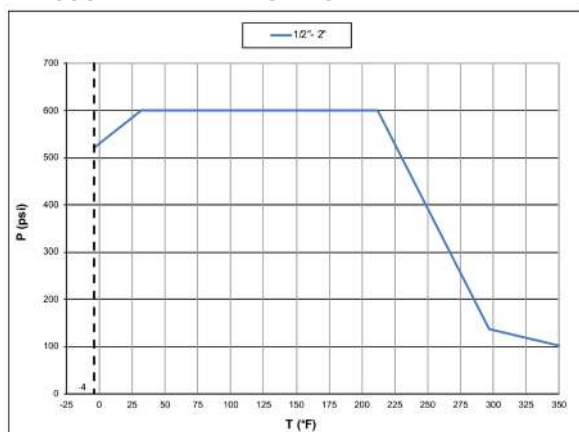
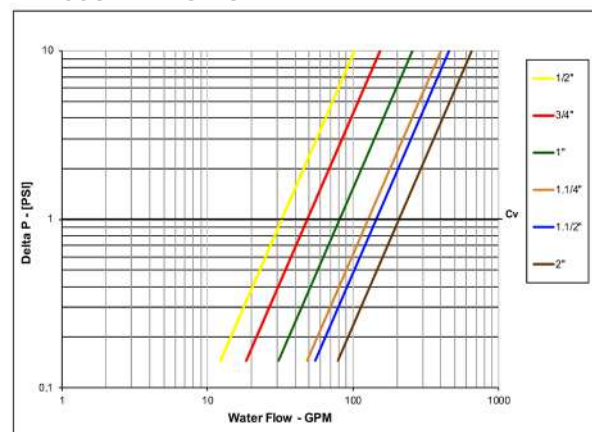


Chart applies to valve, not to solder joints for general use

PRESSURE DROP CHART





Puri-T 264 NPT

Female/Female
1/2" - 1 1/2"
Lead Free, ISO 5211

All surfaces of this product in contact with drinking water contain less than 0.25% of lead in compliance with U.S. law



QUALITY

- Certified by CSA International to comply with U.S. s3874, California AB1953, and similar laws of other states for the safe handling of drinking water
- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated lead free brass ball for longer life

BODY

- Hot forged sand blasted, unplated lead free brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated lead free brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

FLOW

- 100% full port for maximum flow

OPERATING MECHANISM

- Integrated sturdy ISO 5211 flange allows direct mounting of electric and pneumatic actuators, with no bracket or coupling required. See **RuB** line of electric and pneumatic actuators.

WORKING PRESSURE & TEMPERATURE

- 600 PSI up to 3/4" size
- For 1" size up to 1 1/2" size:
- Shell rating: 600 PSI
- Seat rating: Delta P max permissible 230 PSI
- non-shock cold working pressure
- For general use: -4°F/+350°F
- NSF 61 limits (CSA approval): tested for use in continuous exposure to water of ambient temperature
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Custom design

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- Certified by CSA International for Drinking Water to NSF/ANSI 61 – NSF/ANSI 372 (United States)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact power electric actuator for some sizes
- Manual lockable handle



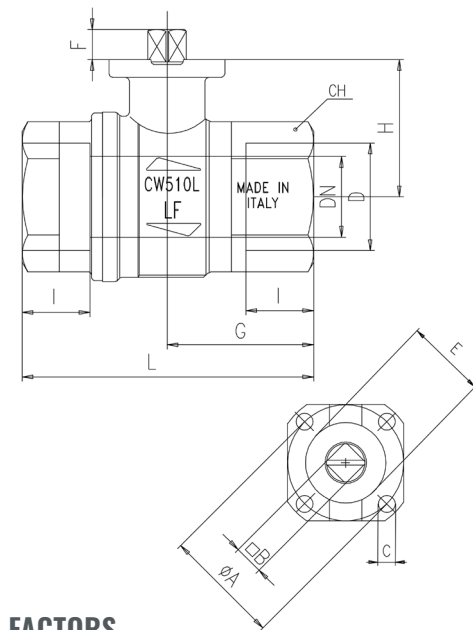
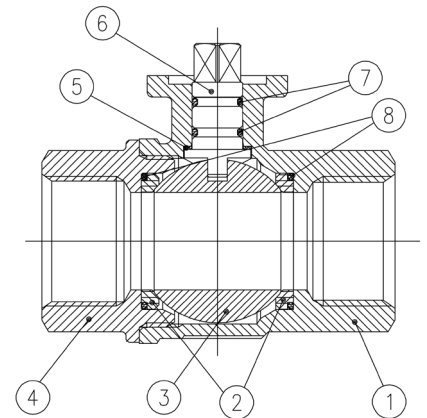
PURI-T 264 XCET264 - 5466

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	Part description	Q.ty	Material
1	Unplated NPT body	1	CW510L
2	Ball seat	2	PTFE graphite filled 15%
3	Chrome plated ball	1	CW510L
4	Unplated NPT end-cap	1	CW510L
5	Washer	1	PTFE carbon filled 25%
6	Nickel plated stem O-ring design	1	CW510L
7	O-Ring	2	FPM
8	O-Ring	2	FPM

Code	T264D41	T264E41	T264F41	T264G41	T264H41
D (inch)	1/2	3/4	1	1 1/4	1 1/2
DN (inch)	0,59	0,787	0,984	1,259	1,575
I (inch)	0,61	0,708	0,827	0,905	0,964
L (inch)	2,598	2,933	3,563	4,094	4,606
G (inch)	1,201	1,457	1,791	2,047	2,322
H (inch)	1,22	1,516	1,673	1,941	2,441
CH (inch)	1,063	1,260	1,614	1,968	2,165
ØA (inch)	1,417	1,417	1,417	1,417	1,968
□B (inch)	0,354	0,354	0,354	0,354	0,551
C (inch)	0,22	0,22	0,22	0,22	0,260
E (inch)	0,984	0,984	0,984	0,984	1,378
F (inch)	0,295	0,335	0,335	0,335	0,571
Flange connection	F03	F03	F03	F03	F05
Cv (GPM)	32,3	69,3	115,5	179,1	283,1

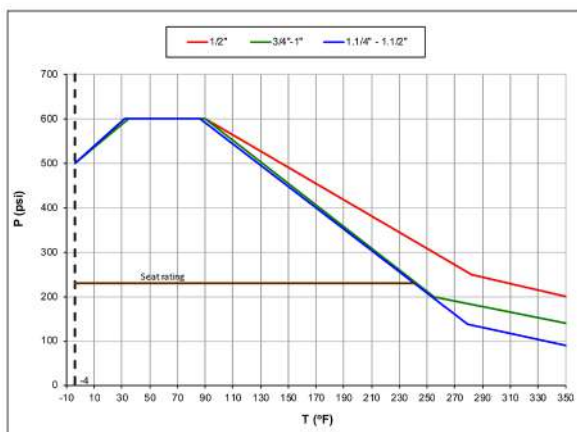


TORQUE FOR ACTUATOR SIZING IN-LB

Delta P -->	0÷200 PSI		600 PSI	
Valve size	to open	to close	to open	to close
1/2"	25	15	25	15
3/4"	33	20	33	20

Delta P -->	0÷90 PSI		>90÷230 PSI	
Valve size	to open	to close	to open	to close
1"	19	19	31	31
1 1/4"	22	22	35	35
1 1/2"	51	51	84	84

PRESSURE-TEMPERATURE CHART



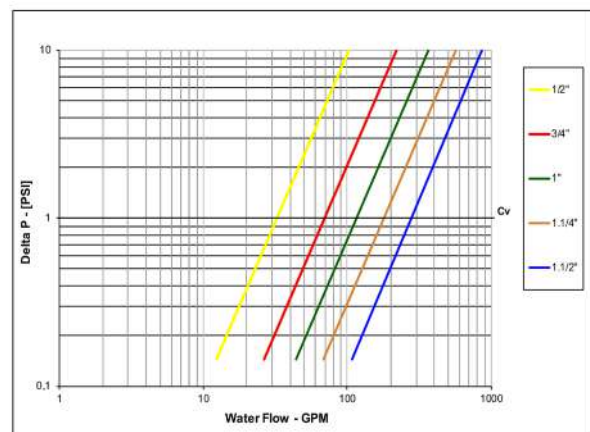
For general use

TORQUE CORRECTION FACTORS

Valve torque can vary according to operating frequency, temperature and friction characteristics of the media. If media has more or less friction than water, multiply torque by the following factors:

Lubricating oils or liquids	0.8
Dry gases, natural gas	1.5
Slurries or liquids bearing abrasive particles	1.5÷2.5

PRESSURE DROP CHART



PLUMBING

RuB offers tailored precise and reliable solutions in managing water and other fluids. Our brass ball valves are crafted for long-term durability and seamless operation, prioritizing safety and sustainability.

Ideal for water supply, drainage, irrigation, HVAC systems, and more, RuB valves are the trusted choice for efficient, leak-proof solutions in residential, commercial, and industrial applications.





PLUMBING

Scan the QR code to discover our products



s.42	1/2" - 3" solder-ends ball valve	Page 294
s.50	1/4" - 2" solder ends, standard port	Page 296
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s.51	1/2" - 2" EN 10226-1, standard port	Page 300
s.51 MF	1/2" - 2" EN 10226-1, standard port	Page 302
s.55 KFE	1/4" ISO 228, cap & strap	Page 304
s.63	1/2" - 3" reduced port, ISO 228	Page 306
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s.81	1/2" - 2" ISO 228, side drain	Page 310
s.88 BSPT	1/4" - 2" reduced port	Page 312
s.90	1/4" - 4", ISO 228	Page 314
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s.90 NPT short	1/4" - 2"	Page 320
s.9036	1/2" - 1 1/4" ISO 228, union connection	Page 322
s.94	1/2" - 2" ISO 228, for sensors	Page 324
s.96 extended stem	1/4" - 2", dezincification-resistant in 3/8" - 2"	Page 326
s.110	3/8" - 4" ISO 228 gate valve	Page 328
s.111	1/4" - 4" ISO 228 heavy pattern gate valve	Page 330
s.112 NPT	1/2" - 4" gate valve	Page 332
s.114 NPT	1/2" - 4" heavy pattern gate valve	Page 334
s.120	3/8" - 4" ISO 228 check valve	Page 336
s.122	3/8" - 4" ISO 228 check valve	Page 338
s.123	1/4" - 4" ISO 228 heavy pattern check valve	Page 340
s.123 NPT	1/4" - 1 1/4" heavy pattern check valve	Page 342
s.124	1/2" - 4" ISO 228 foot valve	Page 344
s.126	3/8" - 4" ISO 228 swing check valve	Page 346
s.126 M	1/2" - 4" swing check valve	Page 348
s.126 M NPT	1/2" - 4" swing check valve	Page 350
s.128	1/4" - 4" ISO 228 Y-strainer	Page 352
s.140 bib-cock	1/2" - 3/4" with plain outlet	Page 354
s.142 bib-cock	3/8" - 1" with 3/4" outlet and hose	Page 356
s.190	1/2" - 2" ISO 228, with built-in filter	Page 358
s.190M	3/4" - 2" ISO 228, with built-in filter and magnet	Page 360



s.42

Female/Female 1/2" - 3" solder-ends ball valve



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Pure PTFE adjustable packing gland and reinforced washer for lower torque and easy maintenance

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

CONNECTIONS

- Solder end female by female connections

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load

OPTIONS UP TO 2" SIZE

- Oval lockable handle up to 2", round over 2" **1**
- Patented locking device for valves up to 3" **2**
- Stem extension (assemble after soldering)
- Lead free for safe drinking water (0.25% or less Pb)
- T-handle **3**
- Stubby handle **4**

WORKING PRESSURE & TEMPERATURE

- 600 PSI (40 bar) up to 2", 450 PSI (30 bar) over 2", (150 WSP -10 bar all sizes) non-shock cold working pressure
- **NOTE:** for solder joints ratings see Table 1 on reverse
- 250 PSI (17 bar) non-shock working pressure for LP-Gas
- *150 psig (10 bar) non-shock working steam pressure. Not suitable for throttling steam.
- -4°F/+366°F (-20°C / +170°C) (for solder joints ratings see Table 1 on reverse)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball and/or stem (1.4401 / AISI 316)
- Glass filled PTFE seals
- Stainless steel handle (1.4016 / AISI 430)
- Custom design

APPROVED BY OR IN COMPLIANCE WITH

- Underwriters Laboratories (United States, Canada):
 - Guide YSDT: LP-Gas shut-off valve
 - Guide YRBX: Flammable liquid shut-off valve
 - Guide YRPV: Gas shut-off valve for use with natural and manufactured gases
 - Guide MHKZ: No. 6 oil at 250°F
- GOST-R (Russia)
- RoHS Compliant (EU)
- CRN-TSSA acc. to MSS SP110 (Canada)
- Meeting WW-V-35C Federal U.S. Specification (United States)

NOTE: approvals apply to specific configurations/sizes only.



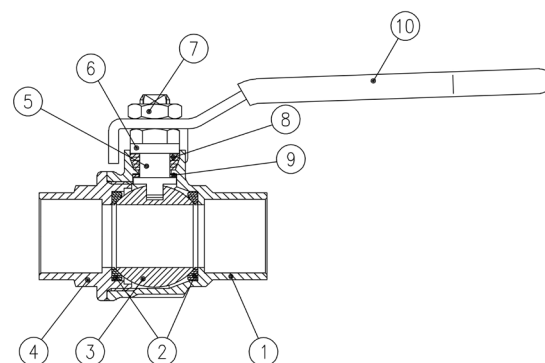
s.42 XCES42 - 5466

Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.



PLUMBING

Part description		Q.ty	Material
1	Unplated solder end body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated solder end-cap	1	CW617N
5	Nickel plated stem packing gland design	1	CW617N
6	Nickel plated gland nut	1	CW617N
7	Geomet® nut	1	C4C (EN10263-2)
8	Packing gland seal	1	PTFE
9	Washer	1	PTFE carbon filled 25%
10	Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)



1 1/4"-2" hollow ball

Code		S42D00	S42E00	S42F00	S42G00	S42H00	S42I00	S42L00	S42M00
D (inch)	Nominal	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	Actual	0.6271	0.8771	1.1279	1.3779	1.6279	2.1279	2.628	3.128
DN (inch)		0.551	0.748	0.944	1.181	1.496	1.889	2.519	2.992
I (inch)		0.492	0.748	0.905	0.964	1.102	1.338	1.476	1.673
L (inch)		2.244	2.854	3.346	3.819	4.488	5.433	6.614	7.598
G (inch)		1.181	1.476	1.673	1.909	2.244	2.716	3.307	3.799
A (inch)		3.937	4.724	4.724	6.220	6.220	6.220	10.039	10.039
H (inch)		1.695	1.988	2.153	2.988	3.236	3.500	5.196	5.511
Cv (GPM)		32.3	48.5	80.9	127.1	144.4	206.8	596.20	896.50

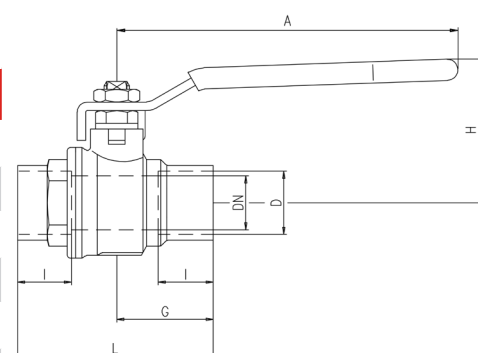


TABLE 1 PRESSURE - TEMPERATURE RATINGS										
Joining material	Melting range degrees		Working temperature degrees		Maximum working gauge pressure					
					Size 1/8" - 1"		Size 1 1/4" - 2"		Size 2 1/2" - 4"	
	°F	°C	°F	°C	psi	kPa	psi	kPa	psi	kPa
50-50 tin-lead solder* ASTM B32 alloy grade 50 A	361/421	185/215	0/+100	-18/+38	200	1400	176	1200	150	1050
			0/+150	-18/+66	150	1050	125	850	100	700
			0/+200	-18/+93	100	700	90	600	75	500
			0/+250	-18/+121	85	600	75	500	50	350
95-5 tin-antimony solder ASTM B32 alloy grade 95TA	450/464	230/240	0/+100	-18/+38	500**	3500**	400**	2800**	300**	2100**
			0/+150	-18/+66	400**	2800**	350**	2400**	275**	2000**
			0/+200	-18/+93	300**	2100**	250**	1700**	200	1400
			0/+250	-18/+121	200	1400	175	1200	150	1050

NOTE:

Above stated limits are not imposed by the valve, but by the strength of the soldering joint according to ASME B16.22.

* This alloy contains more than 0,2% lead and, according to certain specifications, cannot be used for potable water or other foods.

** Soldered copper tube joints have been tested at 230 PSI (1600 kPa) in accordance with ISO 2016

PRESSURE-TEMPERATURE CHART

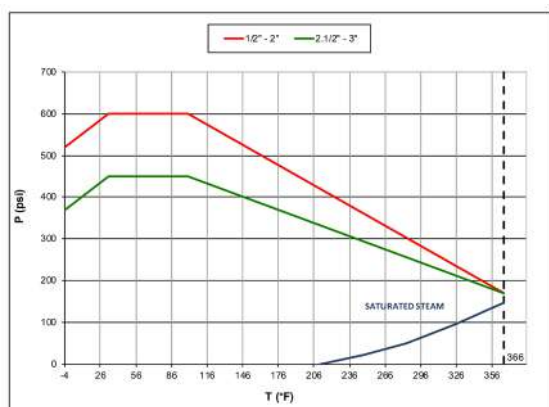
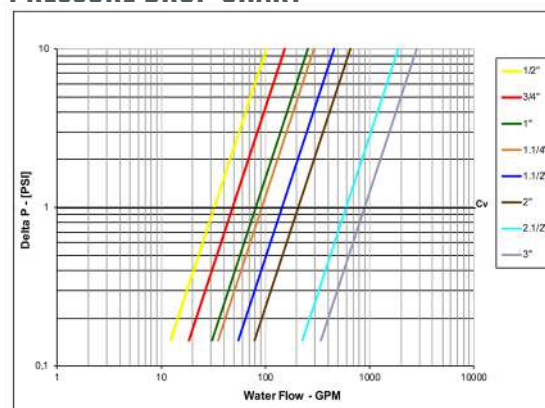


Chart applies to valve, not to solder joints

PRESSURE DROP CHART





s.50

Female/Female
1/4" - 2"



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stress at stem
- Chrome plated brass ball for longer life with rinse hole (the rinse hole is expected from 1/2" up to 2" sizes)

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel female by female threads

FLOW

- Full port to DIN 3357 for 1/4" and 3/8" sizes, nominal port for compact design from 1/2" to 2" sizes.

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) up to 3/8", 30 bar (450 PSI) over 3/8" non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- GOST-R (Russia)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle ①
- Patented locking device ②
- Stem extension
- Stainless steel handle (1.4016 / AISI 430) ③
- T-handle ④
- Stubby handle
- **RuB** memory stop is designed to be installed with our stubby handle



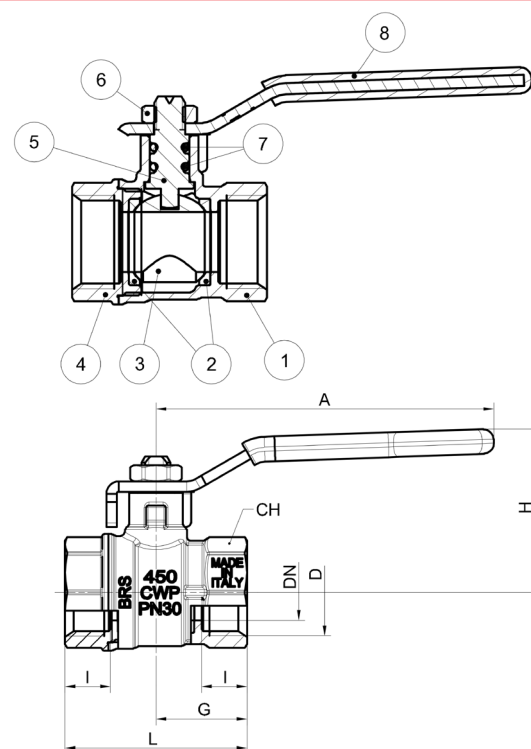
s.50 XCES50 - 5466

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PLUMBING

Part description		Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole (read rinse hole on sizes from 1/2" up to 2")	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)



1 1/4"-2" hollow ball

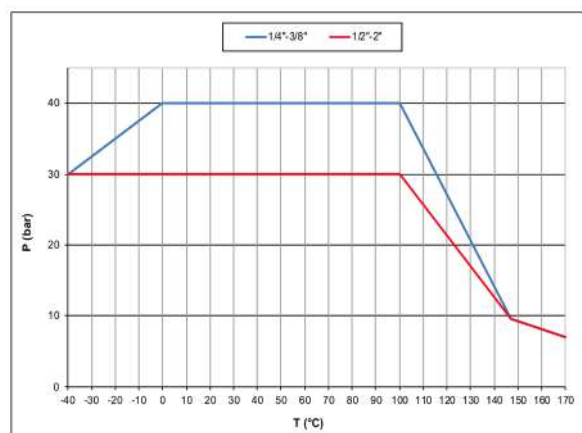
NOTE: drawings refer to 1/2" up to 2" sizes

Code	S50B00	S50C00	S50D00	S50E00	S50F00	S50G00	S50H00	S50I00
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	8	10	13,5	18	22,5	28,5	36	45
I (mm)	9	9	11	12	14	15	17	19
L (mm)	39	39	44	52	61,5	73	86	101
G (mm)	19,5	19,5	22	26	30,7	36,5	43	50,5
A (mm)	82	82	82	100	120	120	158	158
H (mm)	38	38	39,5	43,5	52	57	75,5	82,5
CH (mm)	17	20	25	31	38	48	54	66
Kv (m³/h)	3,9	8,2	13,5	25	39	56	92	129

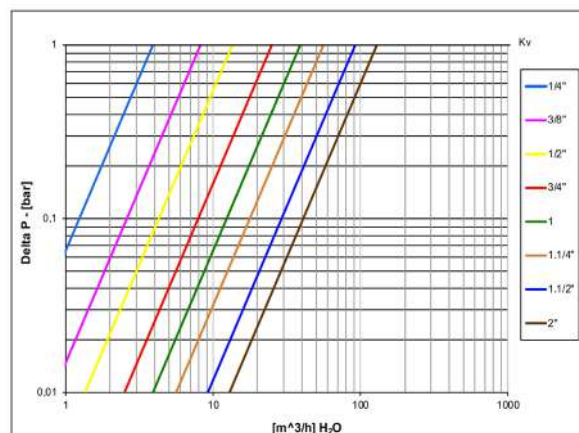
DN shows actual flow diameter. Configuration of valves 1/4" and 3/8" sizes is slightly different.

Ball valves are marked CE on handle from 1 1/4" to 2" as follow: CE XXCODEXX Cat. I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.50 M/F

Male/Female
1/2" - 2"



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stress at stem
- Chrome plated brass ball for longer life with rinse hole

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel male by female threads

FLOW

- Nominal port for compact design from 1/2" to 2" sizes.

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 bar (450 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- GOST-R (Russia)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle ①
- Patented locking device ②
- Stem extension
- Stainless steel handle (1.4016 / AISI 430) ③
- T-handle ④
- Stubby handle
- **RuB** memory stop is designed to be installed with our stubby handle



s.50 MF XCES50M - 5466

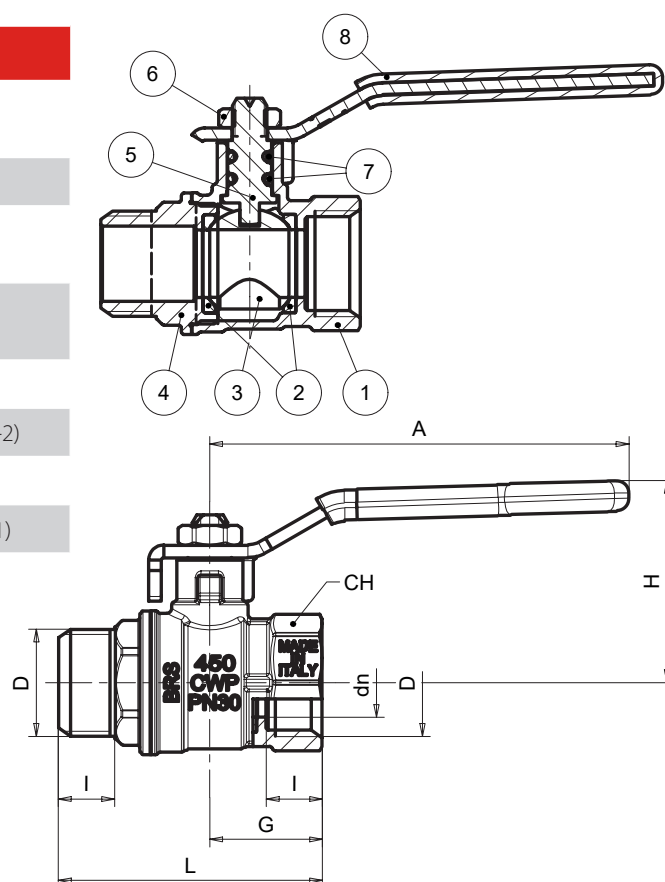
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PLUMBING

	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole (read rinse hole on sizes from 1/2" up to 2")	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

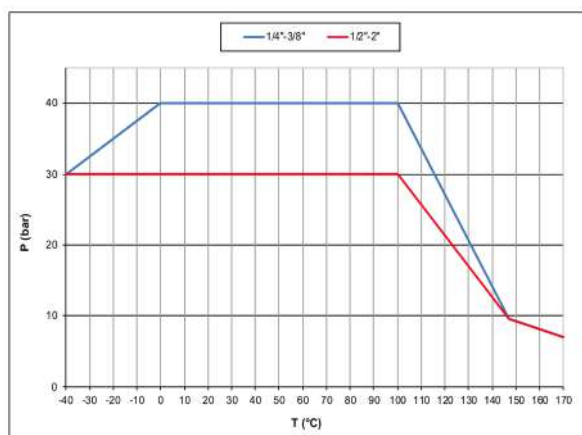
1 1/4"-2" hollow ball



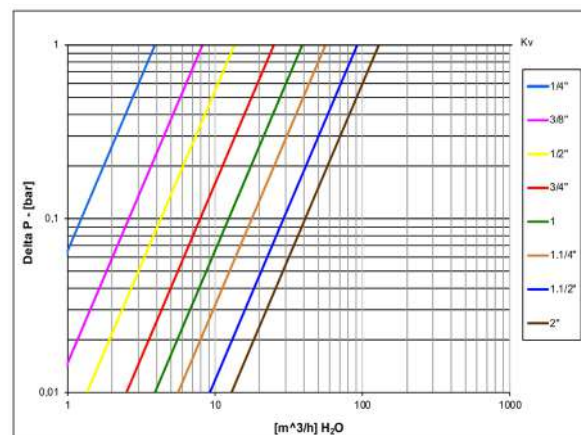
Code	S50D20	S50E20	S50F20	S50G20	S50H20	S50I20
Size (inch)	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	13.5	18	22	28.5	36	45
I (mm)	11	12	14	15	17	19
L (mm)	51.5	60.5	70	82	95	111.5
G (mm)	22	26	30.7	36.5	43	50.5
A (mm)	82	100	120	120	158	158
H (mm)	39.5	43.5	52	57	75.5	82.5
CH (mm)	25	31	38	48	54	66
Kv (m3/h)	13.5	25	39	56	92	129

DN shows actual flow diameter. Ball valves are marked CE on handle from 1 1/4" to 2" as follow: CE XXCODEXX Cat. I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.51

Female/Female
1/2" - 2"
EN 10226-1



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stress at stem
- Chrome plated brass ball for longer life with rinse hole

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1 parallel female by female threads

FLOW

- Nominal port for compact design

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 bar (450 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- GOST-R (Russia)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

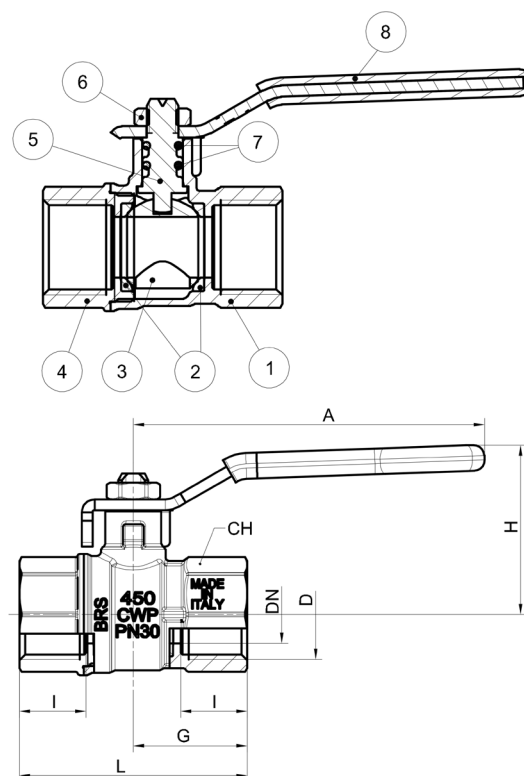
- Oval lockable handle ①
- Patented locking device ②
- Stem extension
- Stainless steel handle (1.4016 / AISI 430) ③
- T-handle ④
- Stubby handle
- **RuB** memory stop is designed to be installed with our stubby handle





	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/4"-2" hollow ball

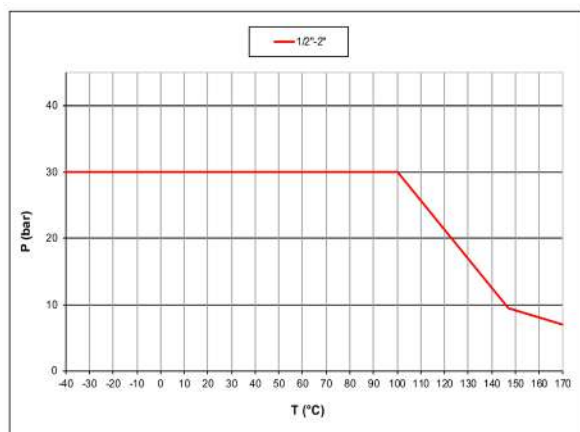


Code	S51D00	S51E00	S51F00	S51G00	S51H00	S51I00
Size (inch)	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	13,5	18	22,5	28,5	36	45
I (mm)	15,5	17	21	23	23	26,5
L (mm)	53	62	75,5	89	98	116
G (mm)	26,5	31	37,7	44,5	49	58
A (mm)	82	100	120	120	158	158
H (mm)	39,5	43,5	52	57	75,5	82,5
CH (mm)	25	31	38	48	54	66
Kv (m³/h)	13,5	25	39	56	92	129

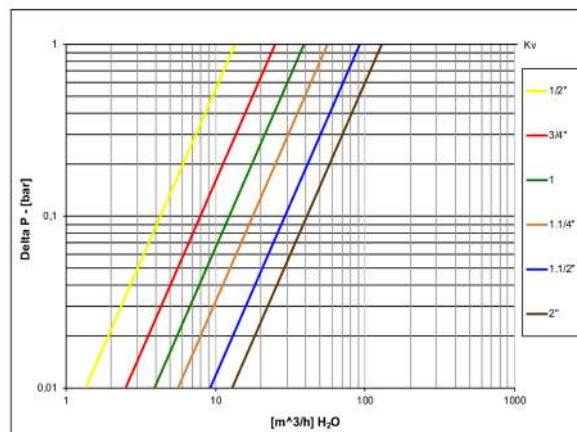
DN shows the nominal flow diameter.

Ball valves are marked CE on handle from 1 1/4" to 2" as follow: CE XXCODEXX Cat I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.51 M/F

Male/Female
1/2" - 2"
EN 10226-1



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stress at stem
- Chrome plated brass ball for longer life with rinse hole

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- EN 10226-1 taper male by parallel female threads

FLOW

- Nominal port for compact design

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 bar (450 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- GOST-R (Russia)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle ①
- Patented locking device ②
- Stem extension
- Stainless steel handle (1.4016 / AISI 430) ③
- T-handle ④
- Stubby handle
- **RuB** memory stop is designed to be installed with our stubby handle



s.51 MF XCES51M - 5466

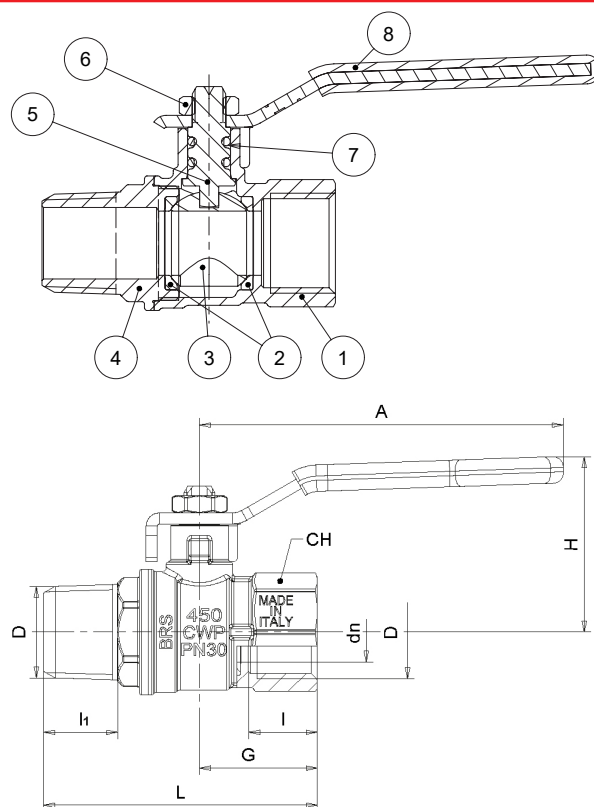
Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.



PLUMBING

	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 ¼"-2" hollow ball

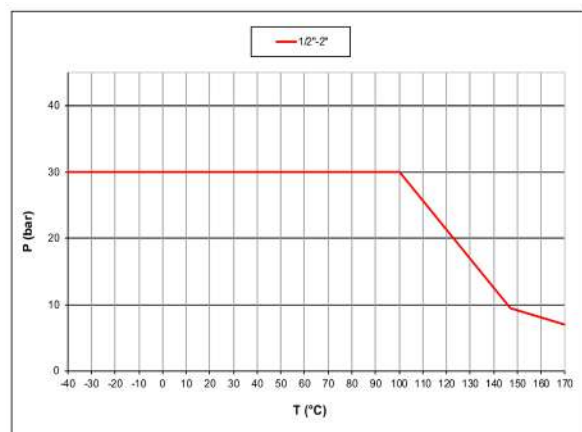


Code	S51D20	S51E20	S51F20	S51G20	S51H20	S51I20
Size (inch)	1/2	3/4	1	1 ¼	1 ½	2
DN (mm)	13.5	18	22.5	28.5	36	45
I (mm)	15.5	17	21	23	23	26.5
I1 (mm)	16.5	18	22	24	24	27.5
L (mm)	61.5	71.5	85	99	108	127.5
G (mm)	26.5	31	37.7	44.5	49	58
A (mm)	82	100	120	120	158	158
H (mm)	39.5	43.5	52	57	75.5	82.5
CH (mm)	25	31	38	48	54	66
Kv (m3/h)	13.5	25	39	56	92	129

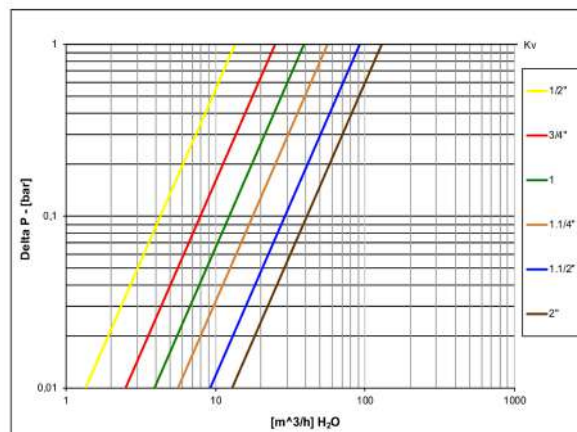
DN shows the nominal flow diameter.

Ball valves are marked CE on handle from 1 ¼" to 2" as follow: CE XXCODEXX Cat I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.55 KFE

1/4"
ISO 228
cap & strap

Many HVAC applications require a blowdown valve to drain water from the strainer.

RuB's new s.55 cap & strap valve is designed with a full port for maximum flow.

Because of the O-ring stem seal design, no maintenance is ever required. 3/4" thread gives the possibility to easily fit a hose holder available as option, for the connection of a waste water collection pipe.



QUALITY

- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety
- Double seal system

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof brass stem with EPDM O-ring
- Maintenance-free, double EPDM O-ring at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- 1/4" ISO 228 parallel male thread by 3/4" ISO 228 thread closed by cap

FLOW

- Full port for maximum flow

HANDLE

- Reinforced nylon black wedge handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- -20°C to +90°C (-4°F to +200°F)
- +120°C screw driver and wrench operated version
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Screw driver or wrench operated
- Nylon wedge handle yellow, red or green
- Grey wedge handle in Grivory® – high performing polymer
- 1/4" NPT taper ANSI B.1.20.1 male thread by 3/4"NH hose thread
- Hose holder for connection of waste water collection pipe
- Seal washer on 1/4" ISO 228 parallel male thread
- Additional connection options on demand



s.55 KFE XCES55KFE - 5466

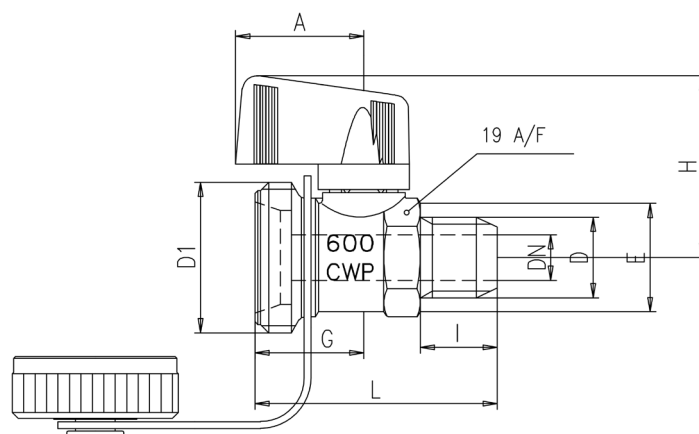
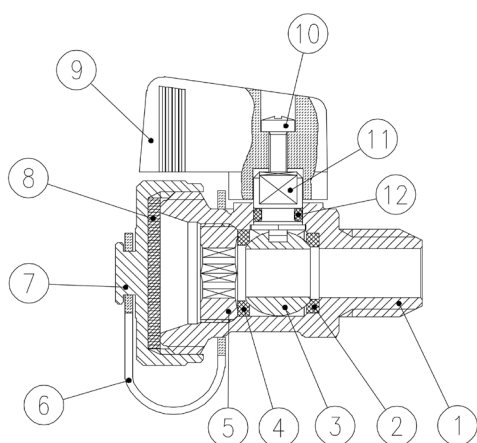
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PLUMBING

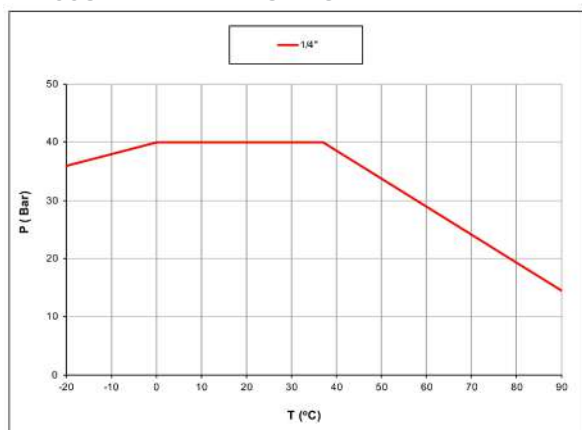
Part description		Q.ty	Material
1	Unplated body	1	CW617N
2	Body seat	1	PTFE
3	Chrome plated ball	1	CW617N
4	Retainer seat	1	PTFE
5	Unplated retainer nut	1	CW617N
6	Black strap	1	Plastic
7	Unplated cap	1	CW617N
8	Seal cap	1	EPDM
9	Black handle	1	Nylon glass filled 30%
10	Zinc plated screw	1	CB4FF (EN10263-2)
11	Unplated stem	1	CW617N
12	O-Ring	1	EPDM

Code	S55B00
D (inch)	1/4"
D1 (mm)	3/4"
DN (mm)	8
E (mm)	19
I (mm)	10
G (mm)	19.1
L (mm)	39
A (mm)	22.5
H (mm)	32
Kv (m3/h)	5.8

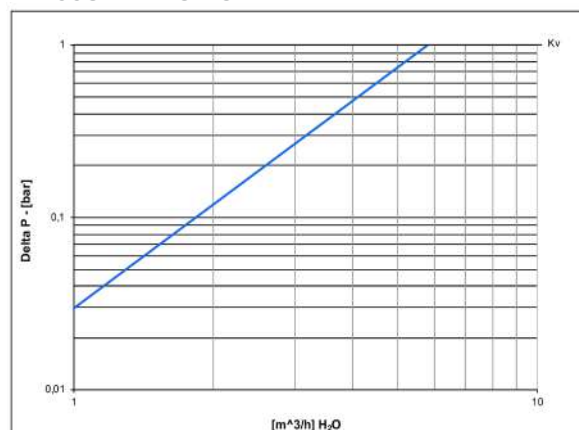


DN shows the nominal flow diameter.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.63

**Female/Female
1/2" - 3"
reduced port, ISO 228**



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 female by female threads

FLOW

- One size reduced port for compact design

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/ sizes only.

OPTIONS

- Oval lockable handle up to 2 1/2", round over 2 1/2" **1**
- Patented locking device for valves up to 3" **2**
- Male by female ISO 228 threads up to 2"
- Stem extension up to 2 1/2"
- Stainless steel handle (1.4016 / AISI 430) up to 2 1/2" **3**
- T-handle up to 2 1/2" **4**
- Stubby handle up to 2"
- **RuB** memory stop is designed to be installed with our stubby handle



s.63 XCES63 - 5466

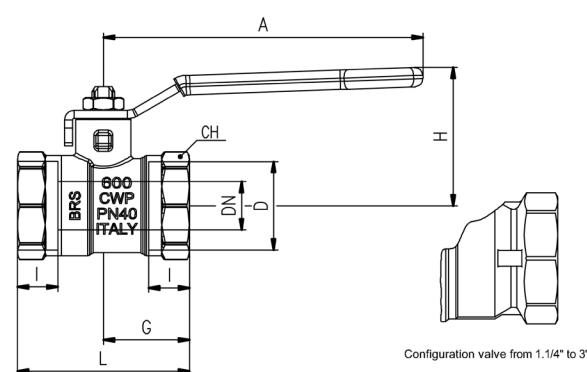
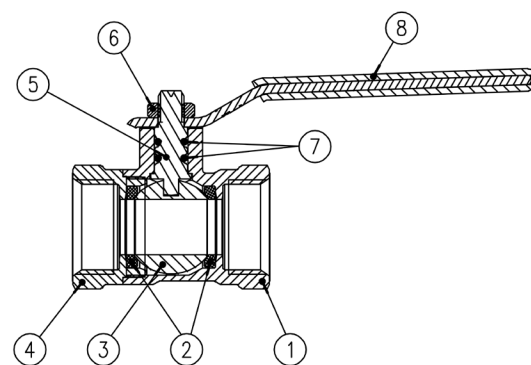
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PLUMBING

Part description		Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside up to 2")	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside up to 2")	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 ½"-2 ½" hollow ball

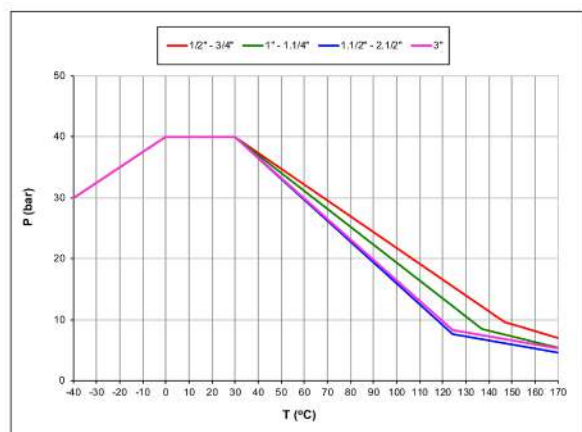


Code	S63D00	S63E00	S63F00	S63G00	S63H00	S63I00	S63L00	S63M00
D (Size)	1/2	3/4	1	1 ¼	1 ½	2	2 ½	3
DN (mm)	11,5	15	19	24	30	38	48	64
I (mm)	11	12	14	15	17	19	22	25
L (mm)	45	54	60	72	84	97	114	142
G (mm)	22	27	30	36	42	48,5	57	71
A (mm)	100	100	120	120	158	158	158	255
H (mm)	41	43	50	54	73	79	86	132
CH (mm)	25	31	38	49	54	68	85	99
Kv (m³/h)	7,2	13	19	33	47	68	179	516

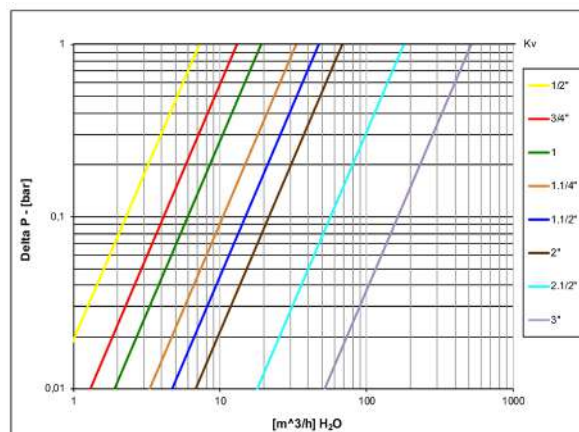
DN shows the nominal flow diameter. Stem configuration of valves over 2 ½" is slightly different.

Ball valves are marked CE on handle from 1 ½" to 2 ½", on body over 2 ½" as follow: CE XXCODEXX Cat. I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.71 NPT

**Female/Female
1/2" - 4"
standard port**



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Pure PTFE adjustable packing gland and reinforced washer for lower torque and easy maintenance
- Triple stem seals in sizes over 2 1/2"

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

FLOW

- Standard port for compact design

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection

OPTIONS

- Oval lockable handle up to 2 1/2", round over 2 1/2" ①
- Patented locking device ②
- Stem extension up to 2 1/2"
- Stainless steel handle (1.4016 / AISI 430) up to 2 1/2" ③
- T-handle up to 2 1/2" ④
- Stubby handle up to 2"
- **RuB** memory stop is designed to be installed with our stubby handle

WORKING PRESSURE & TEMPERATURE

- 600 PSI non-shock cold working pressure
- *150 psig non-shock steam working pressure. Not suitable for throttling steam.
- -40°F/+366°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball and/or stem (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

APPROVED BY OR IN COMPLIANCE WITH

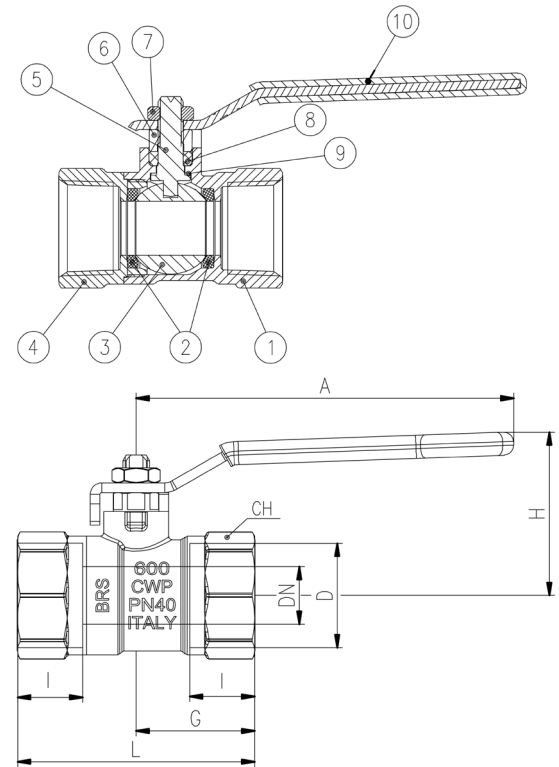
- Canadian standards Association (United States, Canada)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.



	Part description	Q.ty	Material
1	Unplated body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated end-cap	1	CW617N
5	Nickel plated stem packing gland design	1	CW617N
6	Nickel plated gland nut	1	CW617N
7	Geomet® nut	1	C4C (EN10263-2)
8	Packing gland seal	1	PTFE
9	Washer	1	PTFE carbon filled 25%
10	Black PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 ½"-2 ½" hollow ball

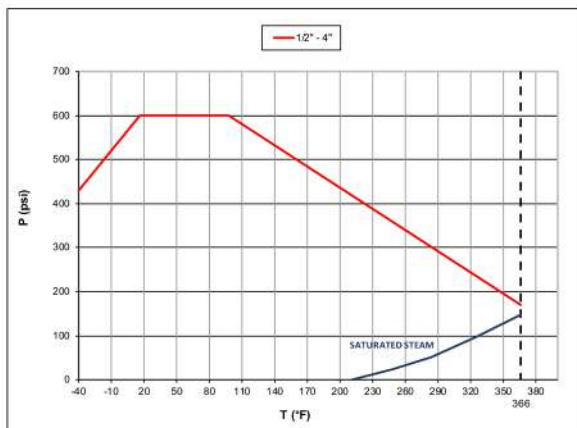


Code	S71D41	S71E41	S71F41	S71G41	S71H41	S71I41	S71L41	S71M41	S71N41
Size (inch)	1/2"	3/4"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"
DN (inch)	0.453	0.590	0.748	0.945	1.181	1.496	1.890	2.520	2.992
I (inch)	0.61	0.669	0.827	0.905	0.905	1.043	1.26	1.378	1.634
L (inch)	2.126	2.441	2.835	3.464	3.779	4.409	5.276	6.378	7.48
G (inch)	1.043	1.22	1.417	1.732	1.89	2.205	2.638	3.189	3.74
A (inch)	3.937	3.937	4.724	4.724	6.22	6.22	6.22	10.039	10.039
H (inch)	1.693	1.695	1.984	2.153	2.988	3.236	3.5	5.197	5.512
CH (inch)	0.984	1.22	1.496	1.929	2.126	2.677	3.346	3.898	4.921
Cv (GPM)	8.3	15	22	38.1	54.3	78.6	206.8	596.2	896.5

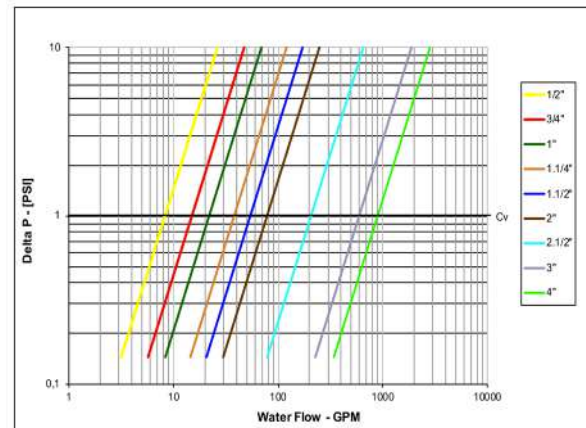
DN shows the nominal flow diameter.

Stem configuration of valves over 2 ½" is slightly different.

PRESSURE-TEMPERATURE CHART



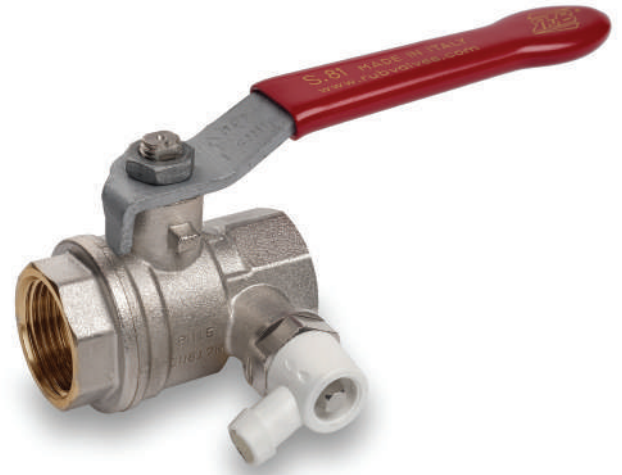
PRESSURE DROP CHART





s.81

Female/Female
1/2" - 2"
ISO 228, side drain



QUALITY

- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications
- Double side drain allows easy and safe downstream line venting

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel female by female threads
- G 1/4" ISO 228 drain on both side

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 16 bar (230 PSI) non-shock cold working pressure
- Pressure applicable to valve, not to side tap
- -20°C to +170°C (-4°F to +350°F)
- Temperature applicable to valve, not to side tap
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design
- Male by female threads

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

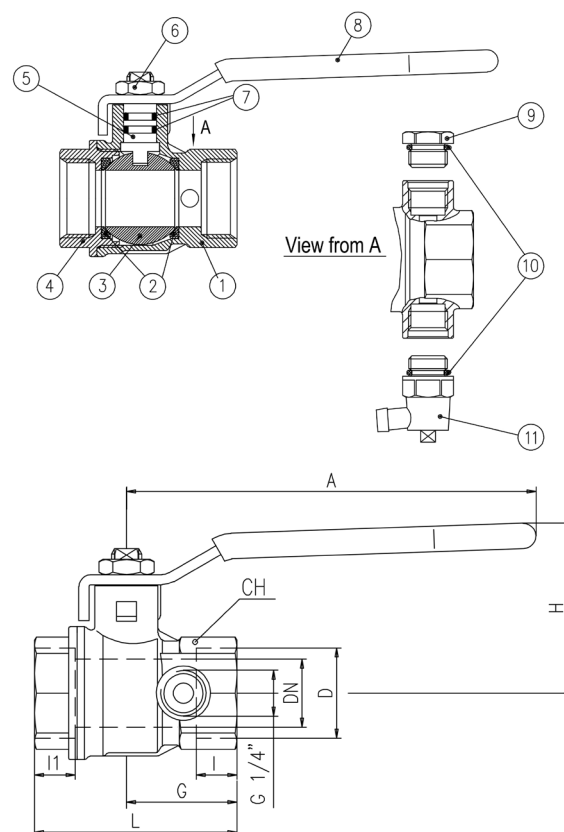
- Oval lockable handle ①
- Patented locking device ②
- Stem extension
- Stainless steel handle (1.4016 / AISI 430) ③
- T-handle ④
- Stubby handle
- **RuB** memory stop is designed to be installed with our stubby handle
- Compact drain ⑤





Part description		Q.ty	Material
1	Nickel plated body (external treatment)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external treatment)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)
9	Nickel plated cap	1	CW617N
10	O-Ring	2	EPDM
11	Side tap	1	-

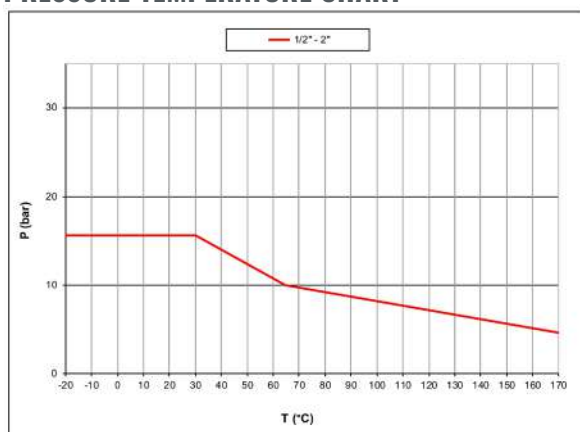
1 1/4"-2" hollow ball



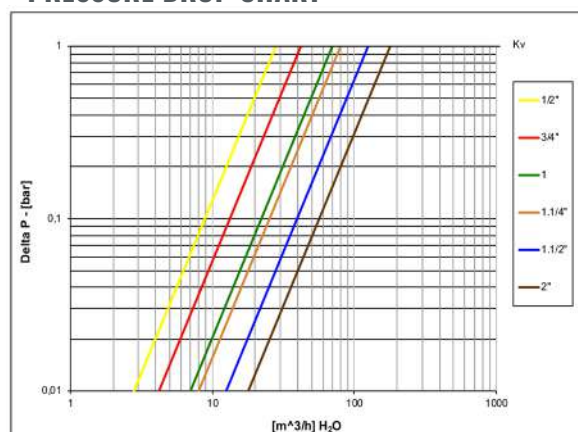
Code	S81D00	S81E00	S81F00	S81G00	S81H00	S81I00
D (mm)	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	15	20	25	32	40	50
I1 (mm)	11	12	21	23	17	26,5
I (mm)	11	12	14	15	17	19
L (mm)	56	59,5	79,5	90,5	95,5	118,5
G (mm)	31	32,5	39	44	50,5	58
A (mm)	100	120	120	158	158	158
H (mm)	43	50	54	73	79	86
CH (mm)	25	31	40	49	54	68,5
Kv (m³/h)	28	42	70	80	125	179

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART



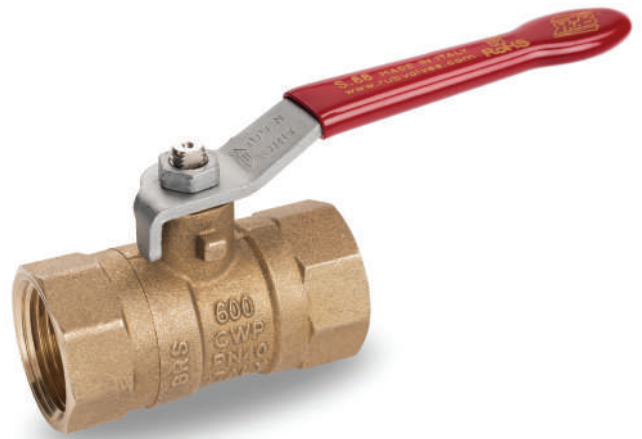


s.88 BSPT

1/4" - 2"



H2 READY: product approved in EU acc.to EN331 (sizes 1/4" to 2") for the 1st, 2nd and 3rd gas families, therefore compatible with hydrogen use up to 50% in the gas mixture, as established in the 1st gas family of the EN437 (ref. G110)



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 7/1, BS 21 BSPT taper female by female threads

FLOW

- One size reduced port compact design

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom Design
- Male by female threads

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25 mm

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only

OPTIONS

- NPT taper ANSI B.1.20.1 threads (s. 71 model with packing gland seal)
- Stem extension
- Oval lockable handle ①
- Patented locking device ②
- Stainless steel handle (1.4016 / AISI 430) ③
- T-handle ④
- Stubby handle
- **RuB** memory stop designed to be installed with our stubby handle



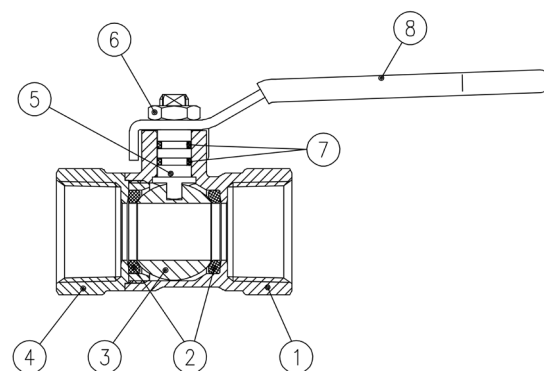
s.88 BSPT XGES8850 - 5466

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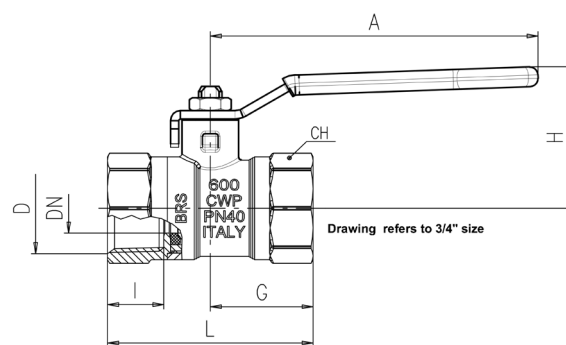
PLUMBING

	Part description	Q.ty	Material
1	Unplated body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated end-cup	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)



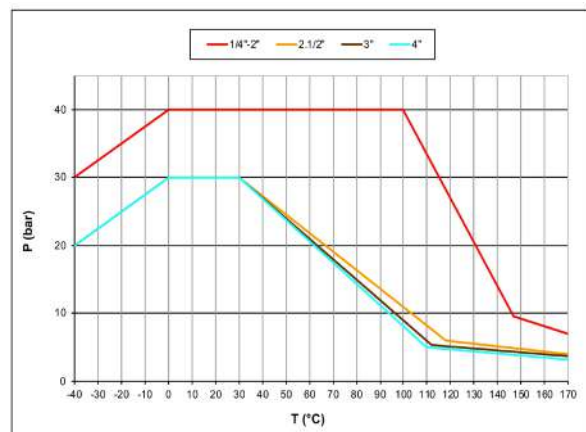
1 1/2"-2" hollow ball

Code	S88B50	S88C50	S88D50	S88E50	S88F50	S88G50	S88H50	S88I50
D (inch)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	6	8	11.5	15	20	25	32	40
I (mm)	12	12	15.5	17	21	23	23	26.5
L (mm)	45	45	54	62	72	88	96	112
G (mm)	22.5	22.5	26.5	31	36	44	48	56
A (mm)	82	82	100	100	120	120	158	158
H (mm)	38	38	41	43	50	54	73	79
CH (mm)	20	20	25	31	38	49	54	68
Kv (m³/h)	1.6	2.6	7.2	13.0	19.0	33.0	47.0	68.0

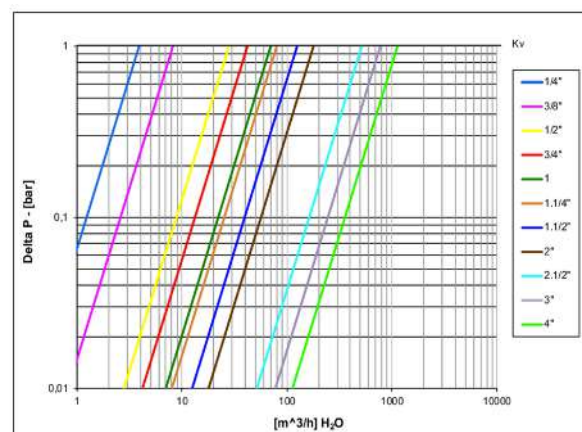


DN shows the nominal flow diameter. Ball valves are marked CE on handle from 1 1/2" to 2" as follow:
CE XXCODEXX Cat. I-A

PRESSURE-TEMPERATURE CHART



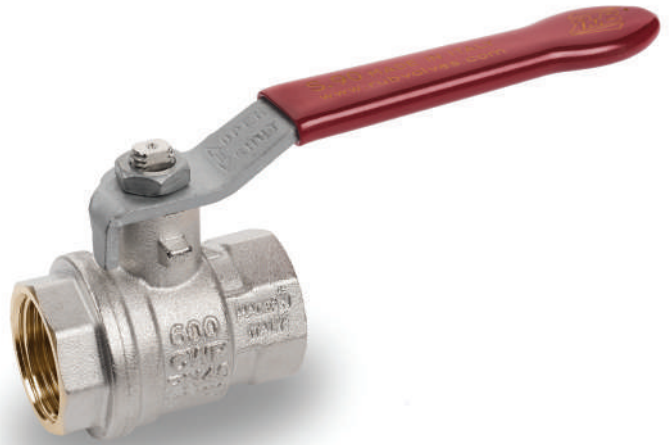
PRESSURE DROP CHART





s.90

Female/Female
1/4" - 4"
ISO 228



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service

OPTIONS

- Oval lockable handle up to 2", round over 2" ❶
- Patented locking device ❷
- Stainless steel handle (1.4016 / AISI 430) ❸
- T-handle ❹
- Stem extension
- **RuB** memory stop is designed to be installed with our stubby handle
- Dezincification resistant brass body and components
- Stubby handle up to 2"

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) up to 2", 30 bar (450 PSI) over 2" non-shock cold working pressure
- -40°C to +180°C (-40°F to +356°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

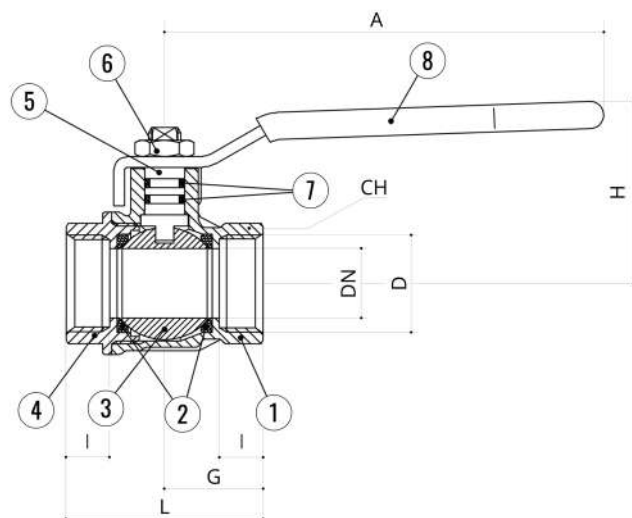
APPROVED BY OR IN COMPLIANCE WITH

- Water Regulations Advisory Scheme (United Kingdom)
- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.



Part description		Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside up to 2")	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside up to 2")	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)



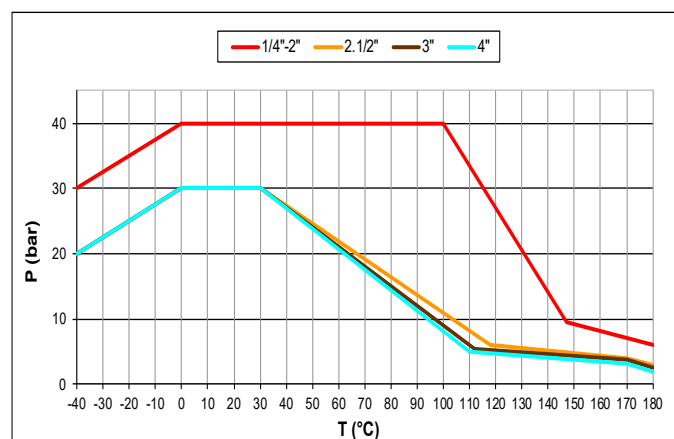
1 1/4"-2" hollow ball

Code	S90B00	S90C00	S90D00	S90E00	S90F00	S90G00	S90H00	S90I00	S90L00	S90M00	S90N00
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (mm)	8	10	15	20	25	32	40	50	65	80	100
I (mm)	9	9	11	12	14	15	17	19	22	25	29
L (mm)	39	39	50	54	67	77	90	106	136	157	191
G (mm)	19,5	19,5	25	27	33,5	38,5	45	53	68	78,5	95,5
A (mm)	82	82	100	120	120	158	158	158	255	255	255
H (mm)	38	38	43	50	54	73	79	86	132	140	154
CH (mm)	17	20	25	31	38	48	54	66	85	99	125
Kv (m³/h)	3,9	8,2	28	42	70	80	125	179	516	776	1130

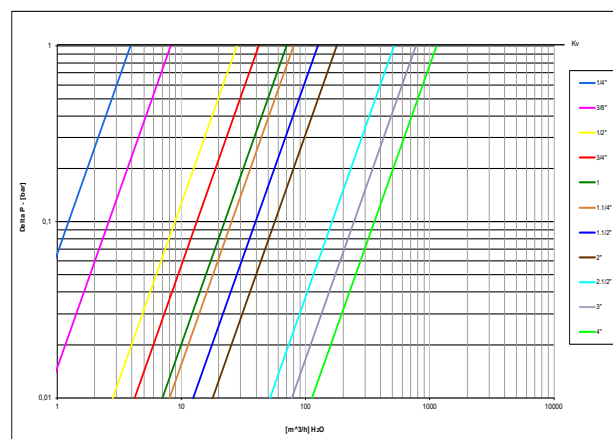
DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different. Ball valves are marked CE on handle from 1 1/4" to 2", on body over 2" as follow:

CE XXCODEXX Cat I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.90 M/F

Male/Female
1/4" - 2"
ISO 228



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel male by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service

OPTIONS

- Oval lockable handle up to 2", round over 2" ❶
- Patented locking device ❷
- Stainless steel handle (1.4016 / AISI 430) ❸
- T-handle ❹
- Stem extension
- **RuB** memory stop is designed to be installed with our stubby handle
- Dezincification resistant brass body and components
- Stubby handle up to 2"

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- -40°C to +180°C (-40°F to +356°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- Water Regulations Advisory Scheme (United Kingdom)
- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.



s.90 MF XCES90M - 5466

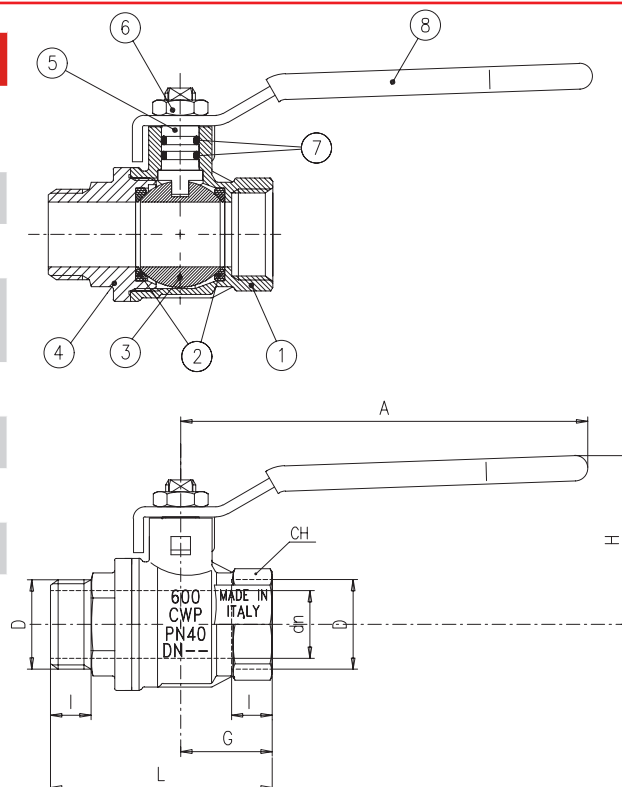
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PLUMBING

Part description		Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

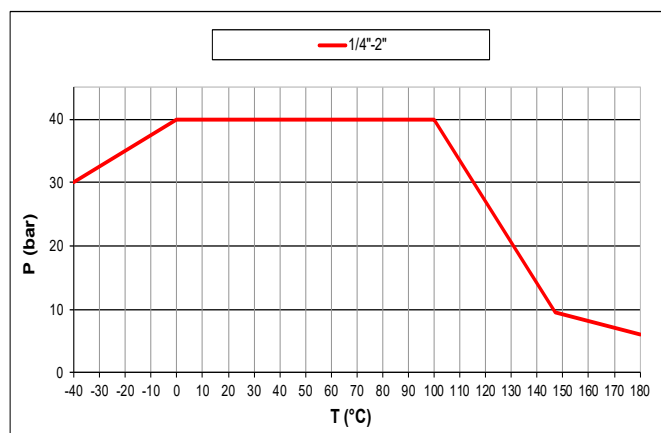
1 1/4"-2" hollow ball



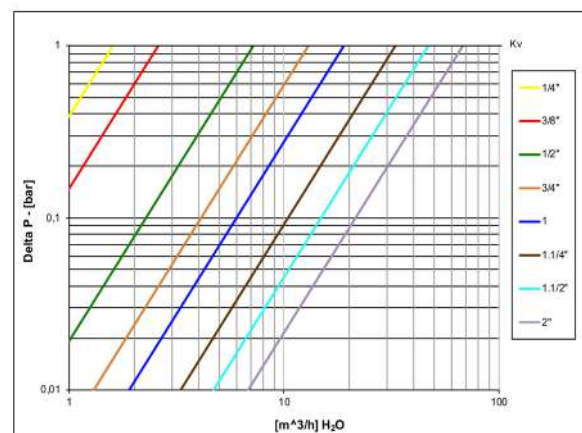
Code	S90B20	S90C20	S90D20	S90E20	S90F20	S90G20	S90H20	S90I20
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	9	9	11	12	14	15	17	19
L (mm)	49	49	60	65.5	77.5	89	100	117
G (mm)	19,5	19,5	25	27	33,5	38,5	45	53
A (mm)	82	82	100	120	120	158	158	158
H (mm)	38	38	43	50	54	73	79	86
CH (mm)	17	20	25	31	38	48	54	66
Kv (m³/h)	3,9	8,2	28	42	70	80	125	179

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Ball valves are marked CE on handle from 1 1/4" to 2": CE XXCODEXX Cat I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.90 M/M

Male/Male
1/4" - 2"
ISO 228



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel male by male threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- -40°C to +180°C (-40°F to +356°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- Water Regulations Advisory Scheme (United Kingdom)
- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle up to 2", round over 2" ❶
- Patented locking device ❷
- Stainless steel handle (1.4016 / AISI 430) ❸
- T-handle ❹
- Stem extension
- **RuB** memory stop is designed to be installed with our stubby handle
- Dezincification resistant brass body and components
- Stubby handle up to 2"



s.90 MM XCES90MM - 5466

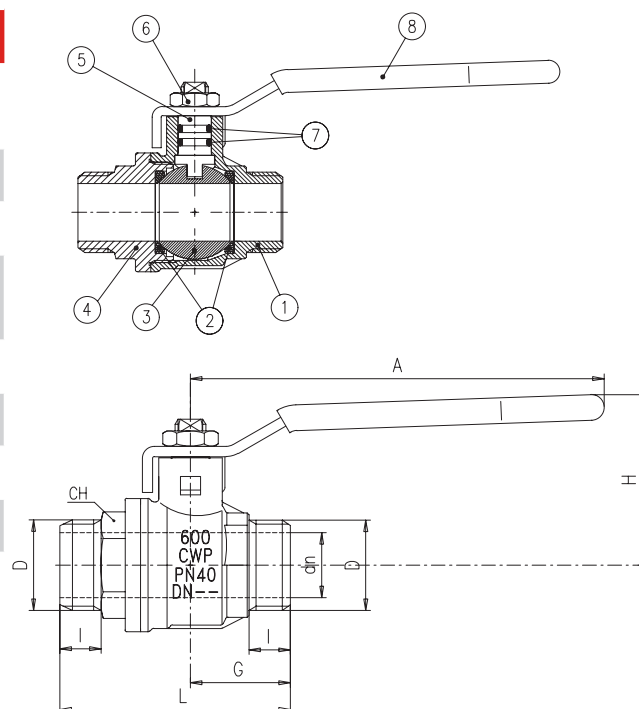
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PLUMBING

Part description		Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

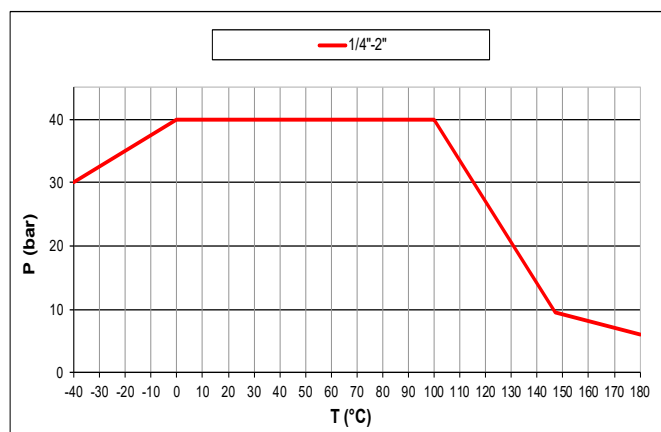
1 1/4"-2" hollow ball



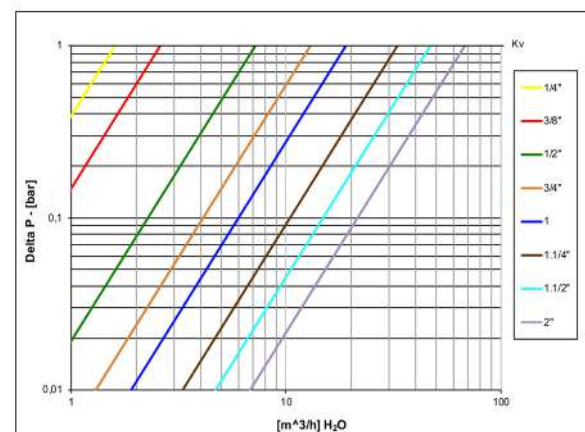
Code	S90B22	S90C22	S90D22	S90E22	S90F22	S90G22	S90H22	S90I22
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	9	9	11	12	14	15	17	19
L (mm)	50.5	50.5	62	67	80	91.5	103	120
G (mm)	21	21	27	29	36	41	48	56
A (mm)	82	82	100	120	120	158	158	158
H (mm)	38	38	43	50	54	73	79	86
CH (mm)	15	18	22	27	35	44	54	68
Kv (m³/h)	3,9	8,2	28	42	70	80	125	179

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Ball valves are marked CE on handle from 1 1/4" to 2": CE XXCODEXX Cat I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.90 NPT short

Female/Female
1/4" - 2"



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged full port sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant

SEALING

- PTFE self-lubricating seats with flexible-lip design

THREADS

- NPT short taper female by female threads

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

WORKING PRESSURE & TEMPERATURE

- 600 PSI non-shock cold working pressure
- -40°F/+350°F (-40°C to +170°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle ①
- Patented locking device ②
- Stem extension
- Stainless steel handle (1.4016 / AISI 430) ③
- T-handle ④
- Stubby handle
- **RuB** memory stop is designed to be installed with our stubby handle



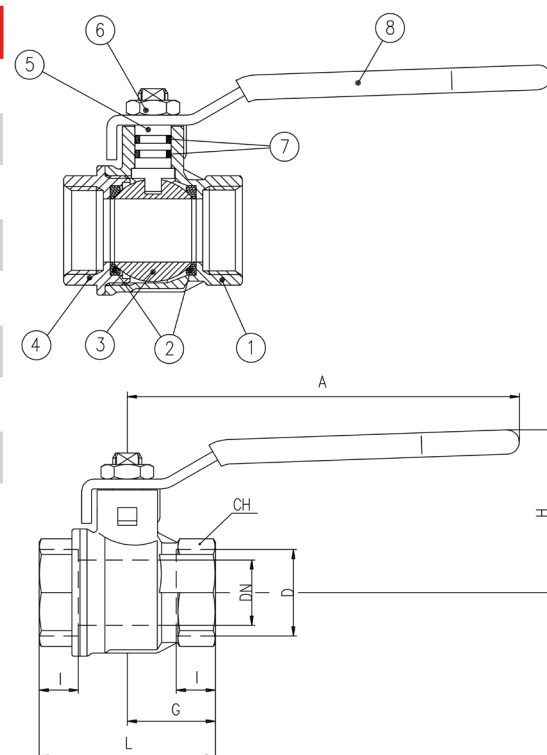
s.90 NPT SHORT XCES90N - 5466

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PLUMBING

Part description		Q.ty	Material
1	Unplated NPT body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated NPT end-cap	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

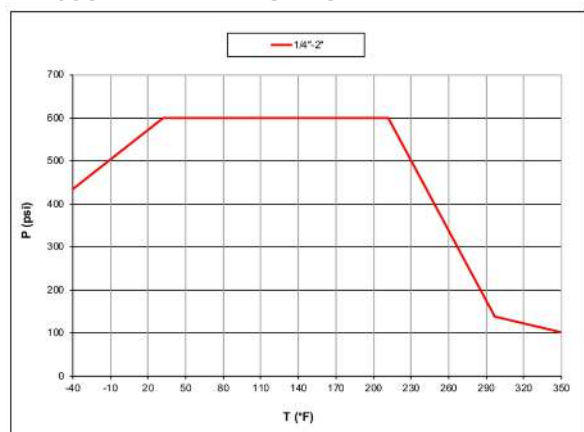


1 1/4"-2" hollow ball

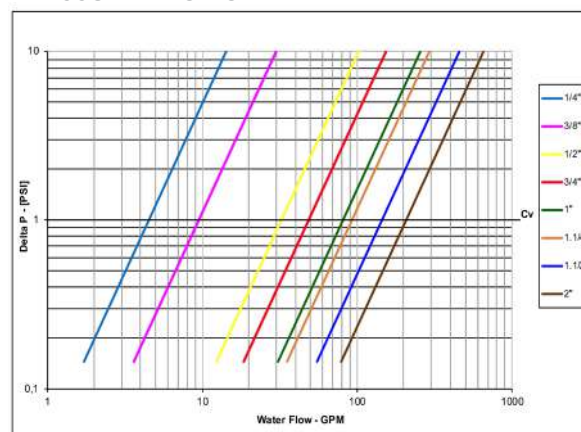
Code	S90B41	S90C41	S90D41	S90E41	S90F41	S90G41	S90H41	S90I41
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (inch)	0.315	0.374	0.591	0.748	0.945	1.181	1.496	1.890
I (inch)	0.354	0.354	0.433	0.472	0.551	0.59	0.669	0.748
L (inch)	1.535	1.535	1.968	2.125	2.637	3.031	3.543	4.173
G (inch)	0.767	0.767	0.984	1.062	1.318	1.515	1.771	2.086
A (inch)	3.228	3.228	3.937	4.724	4.724	6.22	6.22	6.22
H (inch)	1.48	1.48	1.679	1.956	2.114	2.858	3.094	3.37
CH (inch)	0.669	0.787	0.984	1.22	1.496	1.889	2.125	2.598
Cv (GPM)	4.5	9.5	32.3	48.5	80.9	92.4	144.4	206.8

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

PRESSURE-TEMPERATURE CHART



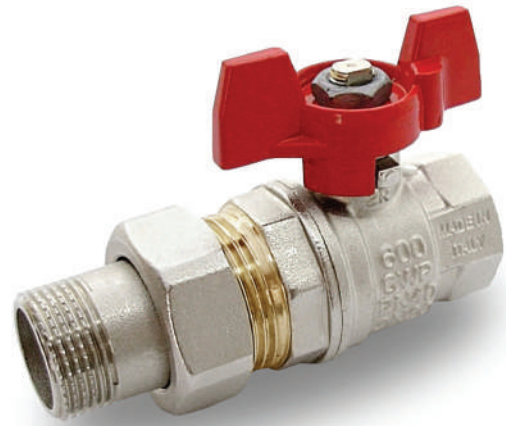
PRESSURE DROP CHART





s.9036

1/2" - 1 1/4"
ISO 228
union connection



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- T-handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 female by union male threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Aluminum T-handle up to 1", Geomet® carbon steel T-handle with thick PVC dip coating over 1"
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) non-shock cold working pressure
- -40°C to +150°C (-40°F to +302°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

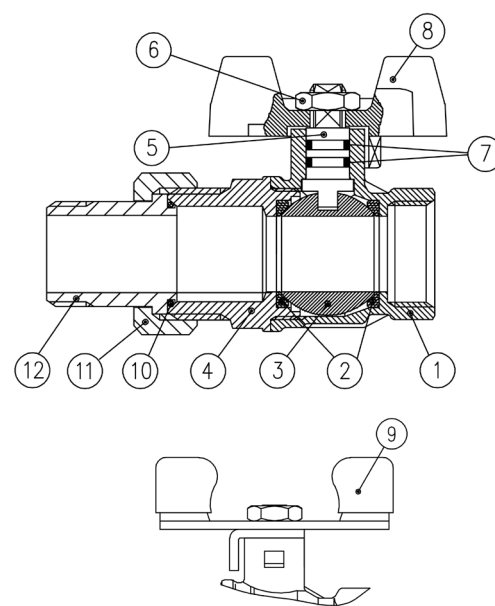
NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Stem extension
 - Oval lockable handle
 - Patented locking device
 - Stainless steel handle (1.4016 / AISI 430)
 - Geomet® carbon steel handle with thick PVC dip coating.
- Handle coating offers both thermal and electrical protection
- Stubby handle
 - **RuB** memory stop is designed to be installed with our stubby handle



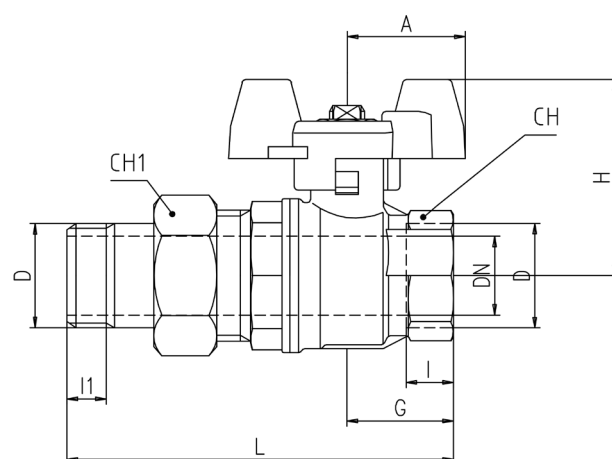
	Part description	Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external nickel plated excluding male thread, unplated inside)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-ring	2	FPM
8	Red T-handle	1	EN AC-46100
9	Red PVC coated Geomet® steel T-handle	1	DD11 (EN10111)
10	O-Ring	1	EPDM
11	Nickel plated nut	1	CW617N
12	Nickel plated hose	1	CW617N



1.1/4"
T-Handle configuration

1 1/4" hollow ball

Code	S90D36	S90E36	S90F36	S90G36
D (inch)	1/2"	3/4"	1"	1 1/4"
DN (mm)	15	20	25	32
I1 (mm)	10	12	14	15
I (mm)	11	12	14	15
L (mm)	85	98	113	126,5
G (mm)	25	27	33,5	38,5
A (mm)	25	30	30	57
H (mm)	43	47	51	84,5
CH (mm)	25	31	38	48
CH1 (mm)	30	37	46	52
Kv (m³/h)	28	42	70	80

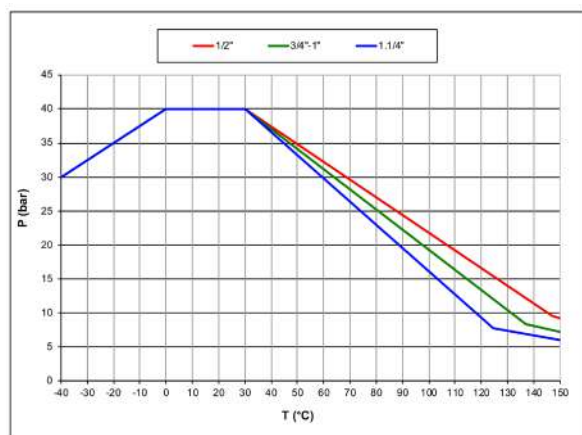


DN show the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

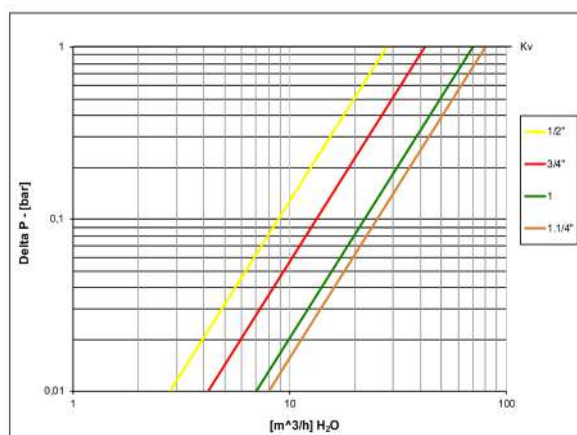
Ball valves are marked CE on body 1 1/4" size as follow:

CE XXCODEXX Cat. I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.94

Female/Female
1/2" - 2"
ISO 228, for sensors



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications
- Tapped bottom M10x1 connection for temperature detector and other devices at user's option

STEM

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 parallel female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 bar (450 PSI) non-shock cold working pressure
- -20°C to +170°C (-4°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Oval lockable handle ①
- Patented locking device ②
- Stem extension
- Stainless steel handle (1.4016 / AISI 430) ③
- T-handle ④
- Stubby handle
- **RuB** memory stop is designed to be installed with our stubby handle



s.94 XCES94 - 5466

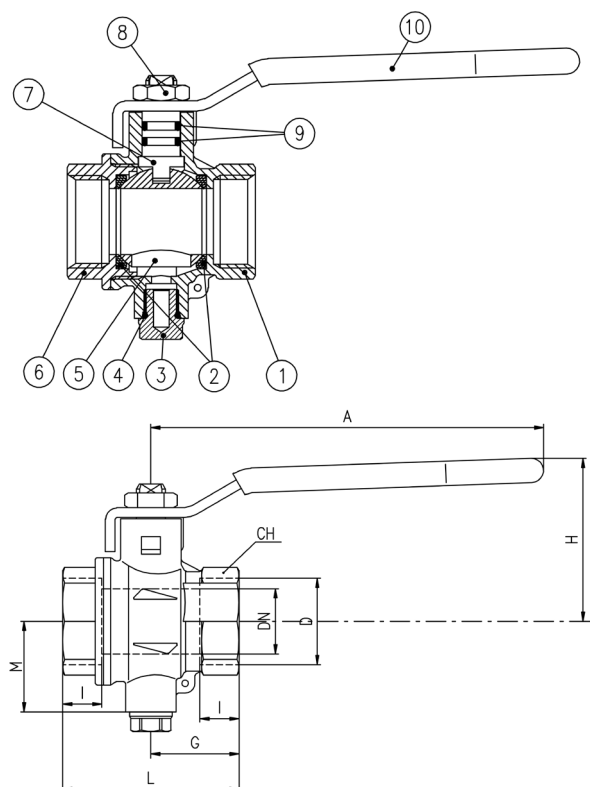
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PLUMBING

	Part description	Q.ty	Material
1	Nickel plated body (external treatment)	1	CW617N
2	Seat	2	PTFE
3	Cap	1	CW617N
4	O-Ring	1	FPM
5	Chrome plated ball	1	CW617N
6	Nickel plated end-cap (external treatment)	1	CW617N
7	Nickel plated stem O-ring design	1	CW617N
8	Geomet® nut	1	C4C (EN10263-2)
9	O-Ring	2	FPM
10	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/4" - 2" hollow ball

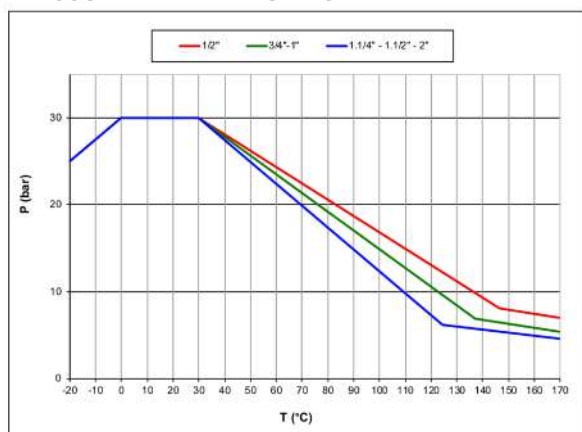


Code	S94D00	S94E00	S94F00	S94G00	S94H00	S94I00
D (mm)	1/2	3/4	1	1 1/4	1 1/2	2
DN (mm)	15	20	25	32	40	50
I (mm)	11	12	14	15	17	19
L (mm)	50	54	67	77	90	106
G (mm)	25	27	33.5	38.5	45	53
M (mm)	32	30	32	38	44.3	51.3
A (mm)	100	120	120	158	158	158
H (mm)	43	50	54	73	79	86
CH (mm)	25	31	40	49	54	68,5
Kv (m³/h)	28	36	62	79	124	178

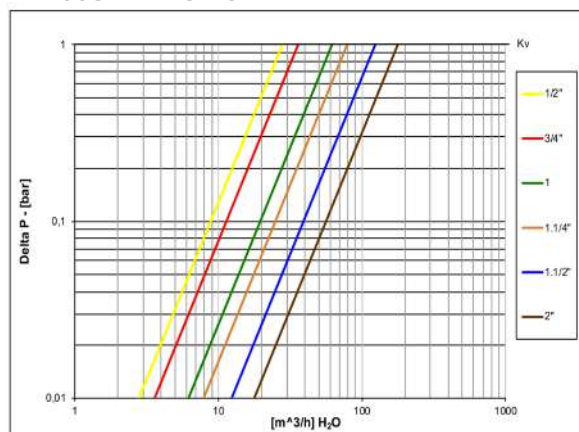
DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

Ball valves are marked CE on handle from 1 1/4" to 2" as follow: CE XXCODEXX Cat I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.96 extended stem

**Female/Female
full port 1/4" - 2"
hot forged brass ball valve
dezincification-resistant in sizes 3/8" - 2"**



QUALITY

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life (DZR brass balls for sizes 3/8" - 2")
- Handle stops on body to avoid stress at stem

BODY

- Hot forged sand blasted, nickel plated brass body and end cap (size 1/4") / Hot forged sand blasted DZR unplated body and end cap (sizes 3/8" - 2"), sealed with Loctite® or equivalent thread sealant
- Extended stem forged in one piece with body allows perfect sealing and easy operation when valve is isolated
- Finest brass according to EN 12165 and EN 12164 specifications (size 1/4"), Dezincification resistant ADZ-T and ADZ-P brass approved to SBN-PFS 1983:2 and NR-BFS 1988:18 specifications (sizes 3/8" - 2")

STEM

- Maintenance-free, double FPM O-rings at the stem for maximum safety
- Unplated brass stem (size 1/4") / DZR brass stem (sizes 3/8" - 2")

SEALING

- Pure PTFE self-lubricating seats with flexible-lip design

THREADS

- ISO 228 female by female threads

FLOW

- Full port to DIN 3357 for maximum flow

OPTIONS

- Oval lockable handle ①
- Patented locking device ②
- Stem extension
- Stainless steel handle (1.4016 / AISI 430) ③
- T-handle ④
- Stubby handle
- **RuB** memory stop is designed to be installed with our stubby handle

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- Handle removable with valve in service
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 bar (450 PSI) non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

UPON REQUEST

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

PED DIRECTIVE

- According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25 mm

APPROVED BY OR IN COMPLIANCE WITH

- RoHS Compliant (EU)
- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.



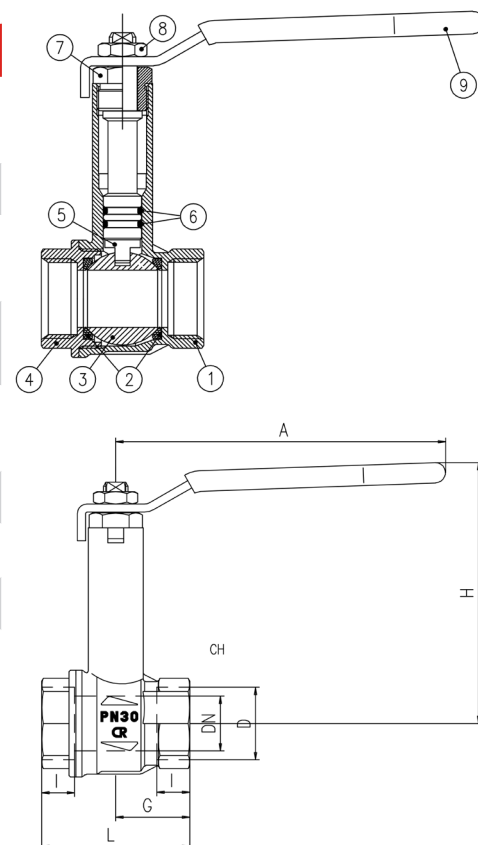
s.96 XCES96 - 5466

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PLUMBING

	Part description	Q.ty	Material
1	Nickel plated body (size 1/4") Unplated DZR body (sizes 3/8"- 2")	1	CW617N CW602N
2	Seat	2	PTFE
3	Chrome plated ball (size 1/4") Chrome plated DZR ball (sizes 3/8"- 2")	1	CW617N CW602N
4	Nickel plated end -cap (size 1/4") Unplated DZR end-cap (sizes 3/8"- 2")	1	CW617N CW602N
5	Unplated extended stem O-ring design (size 1/4") Unplated extended DZR stem O-ring design (sizes 3/8"- 2")	1	CW617N CW602N
6	O-Ring	2	FPM
7	Unplated nut	1	CW617N
8	Geomet® nut	1	C4C (EN10263-2)
9	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

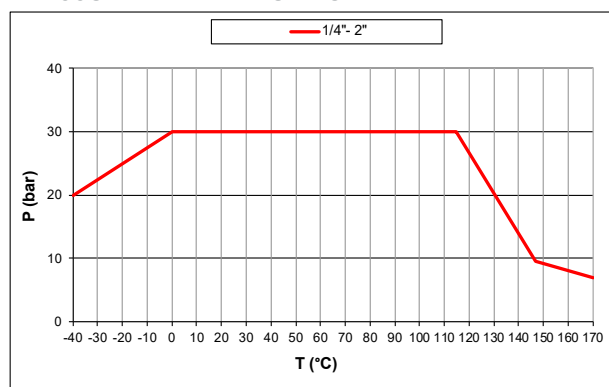


1 1/4"-2" hollow ball

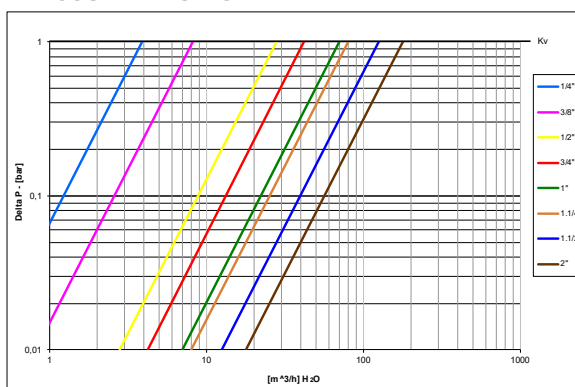
Code	S96B00	S96C00	S96D00	S96E00	S96F00	S96G00	S96H00	S96I00
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	9	9	11	12	14	15	17	19
L (mm)	39	39	50	54	67	77	90	106
G (mm)	19.5	19.5	25	27	33.5	38.5	45	53
A (mm)	100	100	100	120	120	158	158	158
H (mm)	85	85	88	95	99	124	130	137
CH (mm)	20	20	25	31	38	48	54	66
Kv (m3/h)	3.9	8.2	28	42	70	80	125	179

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Ball valves are marked CE on handle from 1 1/4" to 2" as follow: CE Cat I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.110

Female/Female
3/8" - 4"
ISO 228, gate valve



QUALITY

- Suitable for domestic and agricultural installations

THREADS

- ISO 228 parallel female by female threads

BODY

- Hot forged sand blasted brass body
- Low pressure drop

STEM

- High performance EPDM stem seal

HANDLE

- Red coated steel hand-wheel
- Zinc plated steel top nut
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 10 bar non-shock cold working pressure
- -10°C to +80°C (+15°F to +175°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)

NOTE: approvals apply to specific configurations/sizes only.

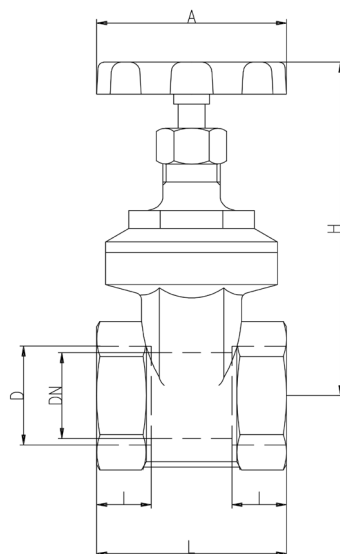
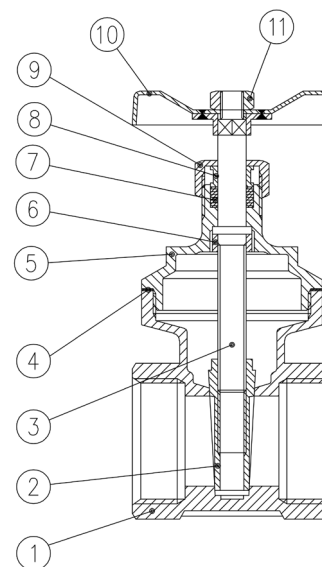
s.110 XCE110 - 5466

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PLUMBING

	Part description	Q.ty	Material
1	Body	1	CW617N
2	Gate	1	CB 754S
3	Stem	1	CW614N
4	Body cap sealing	1	Guarnital Fibre
5	Cap	1	CW617N
6	Stem ring	1	CW614N
7	Packing gland seal	1	EPDM90
8	Packing gland	1	CW614N
9	Packing gland nut	1	CW614N
10	Red round handle	1	Steel
11	Handle nut	1	Steel



Code	110C00	110D00	110E00	110F00	110G00	110H00	110I00	110L00	110M00	110N00
D (Size)	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (mm)	13	13.5	15.5	19	27	33	44	47	60	72
I (mm)	8	9	9	10	10	11	12	13	13	15
L (mm)	33	35	39	43	48	54	58	63	70	80
A (mm)	45	45	45	50	55	60	70	80	100	100
H (mm)	67	68	68	80	86	107	134	143	175	202



s.111

**Female/Female
1/4" - 4"**

ISO 228, heavy pattern gate valve



QUALITY

- Suitable for water-works, domestic and agricultural installations
- Heavy configuration suitable to most difficult applications

BODY

- Hot forged sand blasted unplated brass body
- Low pressure drop

STEM

- High performance EPDM stem seal

THREADS

- ISO 228 parallel female by female threads

HANDLE

- Strong red coated steel hand-wheel
- Zinc plated steel top nut
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 20 bar (300 PSI) non-shock cold working pressure
- -10°C to +80°C (+15°F to +175°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25mm; it cannot be used with non-dangerous gases in sizes larger than 50mm

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)

NOTE: approvals apply to specific configurations/sizes only.

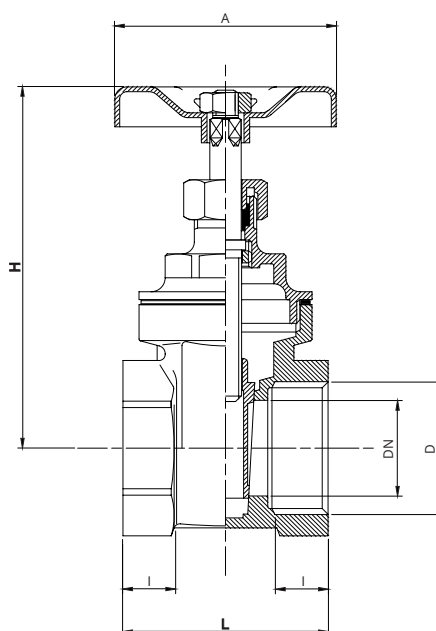
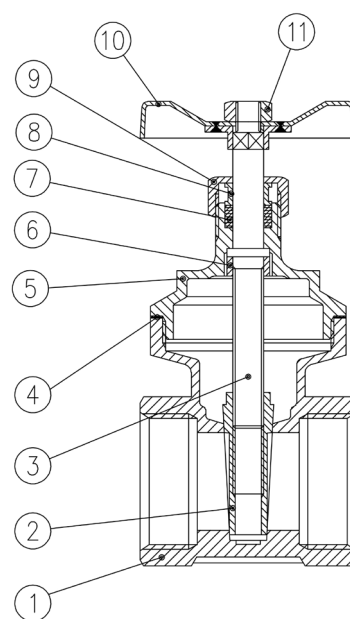
s.111 XCE111 - 5466

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PLUMBING

	Part description	Q.ty	Material
1	Body	1	CW617N
2	Gate	1	CB 754S
3	Stem	1	CW614N
4	Body cap sealing	1	Guarnital Fibre
5	Cap	1	CW617N
6	Stem ring	1	CW614N
7	Packing gland seal	1	EPDM90
8	Packing gland	1	CW614N
9	Packing gland nut	1	CW614N
10	Red round handle	1	Steel
11	Handle nut	1	Steel



Code	111B00	111C00	111D00	111E00	111F00	111G00	111H00	111I00	111L00	111M00	111N00
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (mm)	11	13	15	19	24	32	37	47	60	72	93
I (mm)	8	8	11	12	14	14	14	16	17	19	22
L (mm)	32	32	43	47	51	57	60	66	74	85	98
A (mm)	45	45	45	50	55	60	70	80	100	100	120
H (mm)	67	67	68	78	91	108	125	143	175	205	235



s.112 NPT

**Female/Female
1/2" - 4"
gate valve**



QUALITY

- Suitable for water-works, domestic and agricultural installations
- Non rising stem suitable to most difficult applications

BODY

- Hot forged sand blasted brass body
- Low pressure drop

HANDLE

- Red coated steel hand-wheel
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Zinc plated steel top nut

THREADS

- NPT female by female taper threads

STEM

- High performance EPDM stem seal

WORKING PRESSURE & TEMPERATURE

- 150 PSI non-shock cold working pressure
- +14°F to +176°F (-10°C to +80°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

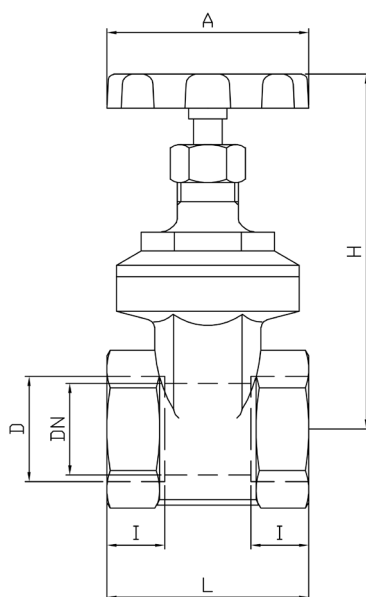
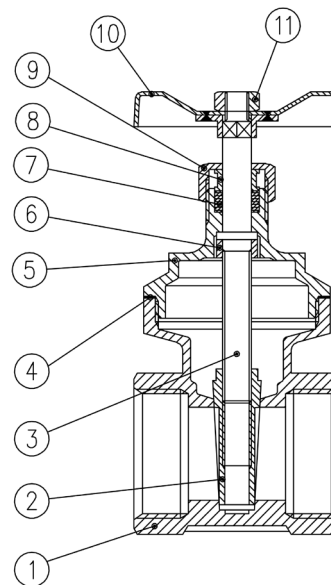
s.112 XCE112 - 5466

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PLUMBING

	Part description	Q.ty	Material
1	Body	1	CW617N
2	Gate	1	CB 754S
3	Stem	1	CW614N
4	Body cap sealing	1	Guarnital Fibre
5	Cap	1	CW617N
6	Stem ring	1	CW614N
7	Packing gland seal	1	EPDM90
8	Packing gland	1	CW614N
9	Packing gland nut	1	CW614N
10	Red round handle	1	Steel
11	Handle nut	1	Steel



Code	112D00	112E00	112F00	112G00	112H00	112I00	112L00	112M00	112N00
D (inch)	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
DN (inch)	0,531	0,61	0,748	1,062	1,299	1,732	1,85	2,362	2,834
I (inch)	0,354	0,354	0,393	0,393	0,433	0,472	0,511	0,511	0,59
L (inch)	1,377	1,535	1,692	1,889	2,125	2,283	2,48	2,755	3,149
A (inch)	1,771	1,771	1,968	2,165	2,362	2,755	3,149	3,937	3,937
H (inch)	2,677	2,677	3,149	3,385	4,212	5,275	5,629	6,889	7,952



s.114 NPT

**Female/Female
1/2" - 4"
heavy pattern gate valve**



QUALITY

- Suitable for water-works, domestic and agricultural installations
- Non rising stem suitable to most difficult applications

BODY

- Low pressure drop
- Finely cast sand blasted heavy brass body

STEM

- High performance PTFE stem seal

THREADS

- NPT female by female taper threads

HANDLE

- Strong cast aluminum hand-wheel
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 200 PSI non-shock cold working pressure
- -4°F to +350°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)

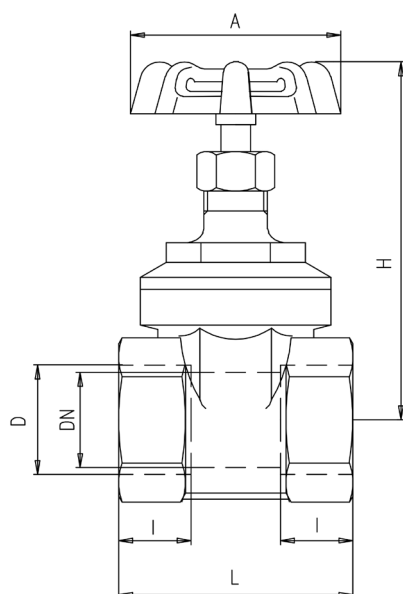
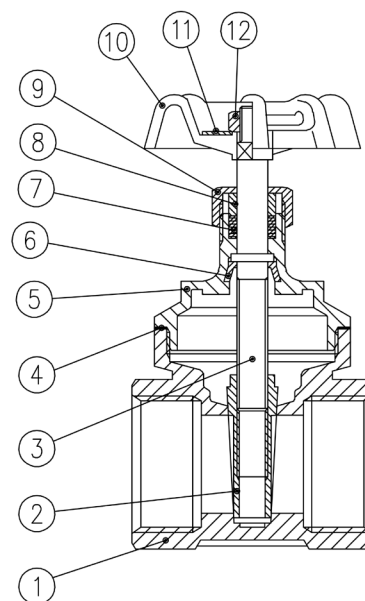
NOTE: approvals apply to specific configurations/sizes only.

s.114 XCE114 - 5466

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	Part description	Q.ty	Material
1	Body	1	CW617N
2	Gate	1	CW617N
3	Stem	1	CW617N
4	Body cap sealing	1	PTFE
5	Cap	1	CW617N
6	Stem ring	1	CW617N
7	Packing gland seal	1	PTFE
8	Packing gland	1	CW617N
9	Packing gland nut	1	CW617N
10	Red round handle	1	Steel
11	Disc	1	Aluminum
12	Handle nut	1	CW617N

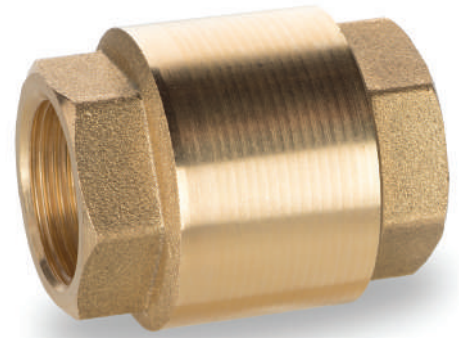


Code	114D41	114E41	114F41	114G41	114H41	114I41	114L41	114M41	114N41
Size (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (inch)	0,504	0,669	0,827	1,063	1,339	1,772	2,205	2,667	3,543
I (inch)	0,449	0,492	0,559	0,657	0,669	0,728	0,925	1,004	1,181
L (inch)	1,693	1,772	2,047	2,323	2,48	2,716	3,465	3,74	4,488
A (inch)	2,165	2,165	2,362	2,835	2,835	3,15	3,937	4,331	5,118
H (inch)	2,795	2,992	3,445	4,055	4,475	5,256	6,437	7,48	9,252
PSI	200	200	200	200	200	200	200	200	200



s.120

3/8" - 4"
ISO 228
check valve



QUALITY

- Suitable for domestic, industrial, pneumatic and hydraulic installations
- Performs well in any orientation

BODY

- Low pressure drop
- Hot forged CW617N brass body

STEM

- Nylon stem allows wide range of applications

SEALING

- NBR 65 SH/PS seal on nylon holder

THREADS

- ISO 228 parallel female by female threads

WORKING PRESSURE & TEMPERATURE

- 12 bar (174 PSI) up to 1", 10 bar (145 PSI) from 1.1/4" up to 2" and 8 bar (116 PSI) over 2" non-shock cold working pressure
- -20°C to +100°C (-4°F to +212°F)
- WARNING: freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25mm

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

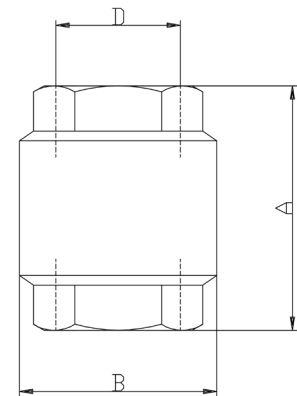
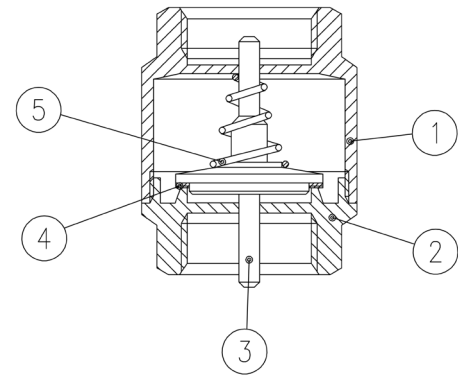
- Stainless steel filter (1.4301 / AISI 304)

s.120 XCE120 - 5466

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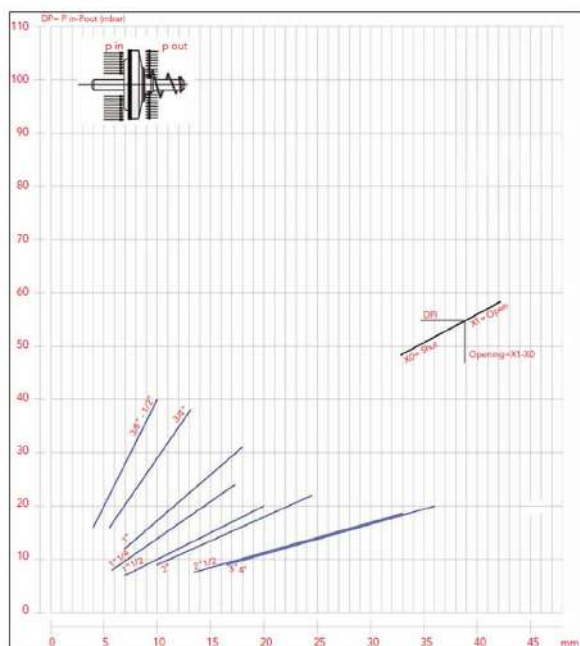


	Part description	Q.ty	Material
1	Body	1	CW617N
2	Seat	1	CW617N
3	Stem-seat	1	Nylon
4	Seat	1	NBR
5	Stainless steel spring	1	1.4325/AISI 302
6	Strainer	1	AISI304 (1.4301)

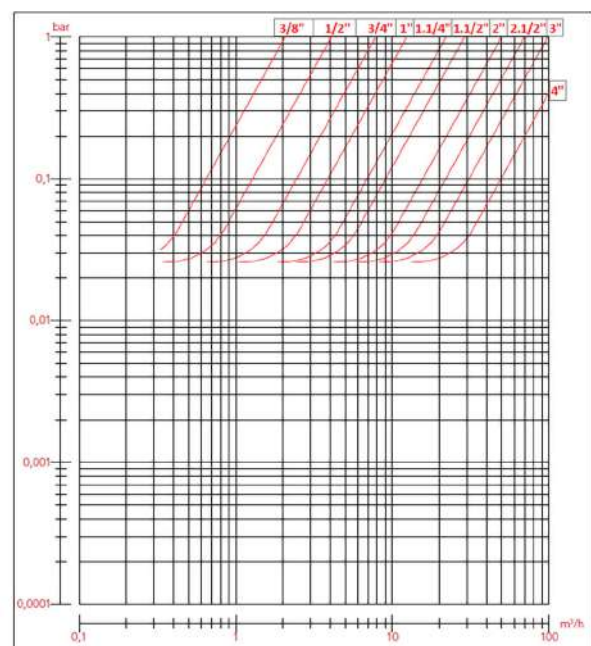


Code	120C00	120D00	120E00	120F00	120G00	120H00	120I00	120L00	120M00	120N00
D (inch)	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A (mm)	46,5	47	53	60,5	66,5	74	80	98	103	118,5
B (mm)	34,5	34,5	42	47,5	59,5	71	86,5	102	125	155
PN (Kg/cm ²)	12	12	12	12	10	10	10	8	8	8
Kv	2,11	4,22	7,92	11,67	22,42	29,39	51,4	69,9	98,49	157,91

DIAGRAM MINIMUM PRESSURE TO GET THE VALVES



OPENING PRESSURE DROP CHART





s.122

3/8" - 4"
ISO 228

heavy pattern brass check valve



QUALITY

- Suitable for domestic, industrial, pneumatic and hydraulic installations
- Performs well in any orientation
- Strong configuration suitable to most difficult applications
- Brass stem for outstanding performance
- Lowest pressure drop

BODY

- Hot forged CW617N brass body

SEALING

- NBR 65 SH/PS seal assembled with stainless steel holder

THREADS

- ISO 228 parallel female by female threads

WORKING PRESSURE & TEMPERATURE

- Cracking pressure: min 0.025 bar
- Sealing pressure: min 0.05 bar
- See non-shock cold working pressure on chart
- -20°C to +100°C (-4°F to +212°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 20mm; it cannot be used with non-dangerous gases in sizes larger than 40mm

APPROVED BY OR IN COMPLIANCE WITH

- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- Attestation de Conformité Sanitaire (France) in sizes 1/4" to 2"
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

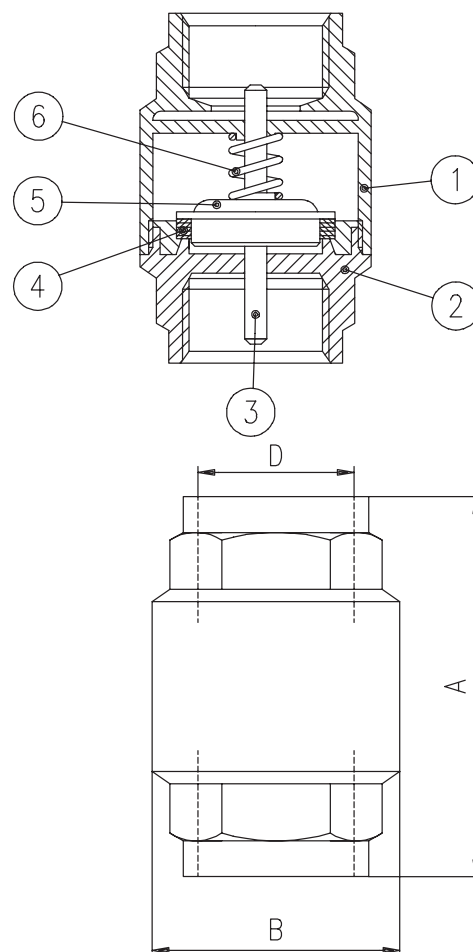
- Strainer in Polymer and Stainless steel 1.4301 (AISI 304)
- * NPT female by female threads ANSI B.1.20.1 in sizes 1/2" to 4"

s.122 XCE122 - 5466

Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.

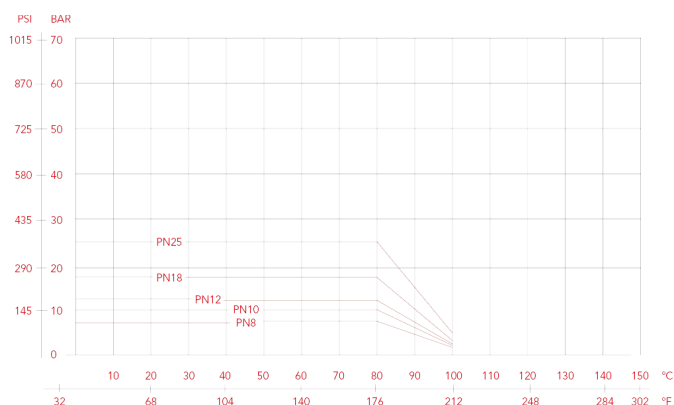


	Part description	Q.ty	Material
1	Body	1	CW617N
2	End-cap	1	CW617N
3	Stem	1	CW614N
4	Seat	1	NBR
5	Seat holder	1	1.4301 / AISI 304
6	Stainless steel spring	1	1.4325 / AISI 302

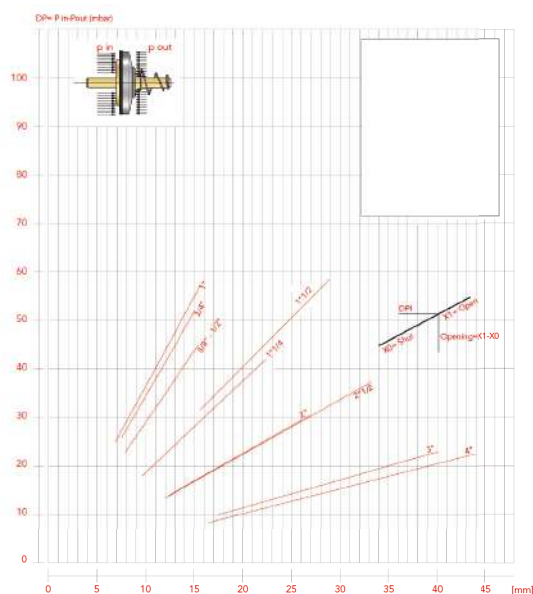


Code	122B00	122C00	122D00	122E00	122F00	122G00	122H00	122I00	122L00	122M00
Size (inch)	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A (mm)	55	58.5	65	74.5	83	93	101	122	141.5	158.5
ØB (mm)	34.5	34.5	41.5	48	60.5	71	87	120	140	172
PN (Kg/cm2)	25	25	25	25	18	18	18	12	12	12

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART

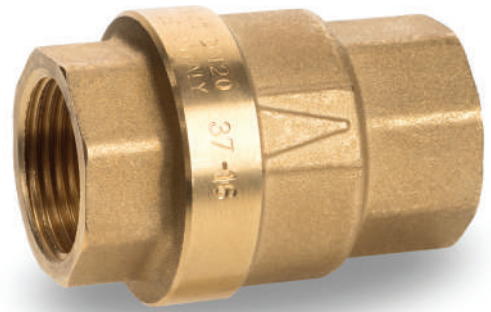




s.123

Female/Female
1/4" - 4"

ISO 228, heavy pattern check valve



QUALITY

- Suitable for domestic, industrial, pneumatic and hydraulic installations
- Performs well in any orientation
- Strong configuration suitable to most difficult applications
- Low noise
- Low water hammer
- Lowest pressure drop

BODY

- Hot forged CW617N brass body
- Perfect seal at low and high pressure, within a wide temperature range

SEALING

- NBR seal from 1/4" up to 3", FPM for 4" size

THREADS

- ISO 228 parallel female by female threads

WORKING PRESSURE & TEMPERATURE

- Cracking pressure: min 0.025 bar
- Sealing pressure: min 0.05 bar
- See non-shock cold working pressure on chart
- -20°C to +100°C (-4°F to +212°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 20mm; it cannot be used with non-dangerous gases in sizes larger than 40mm

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- Stainless steel filter

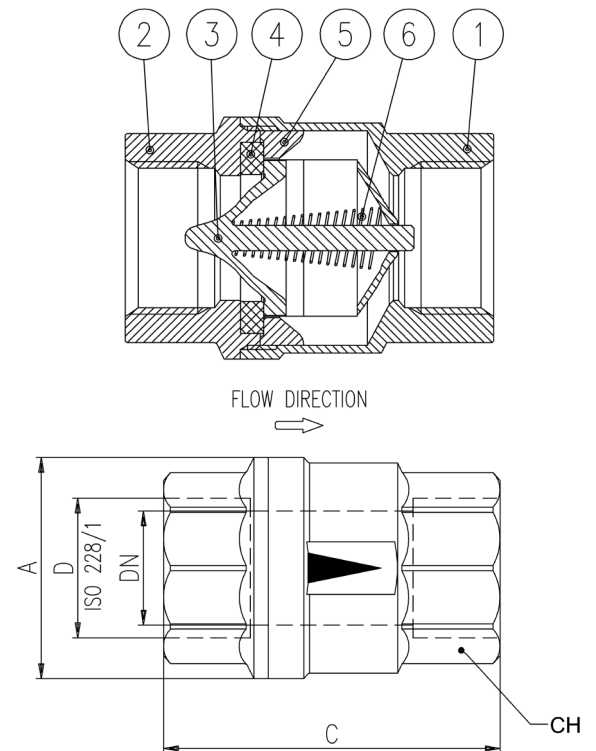
s.120 XCE123 - 5466

Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.



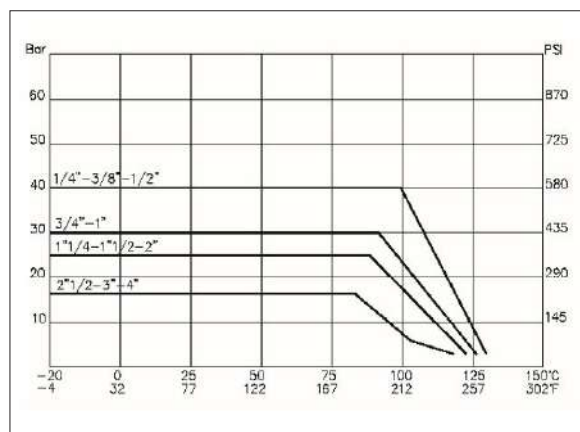
PLUMBING

	Part description	Q.ty	Material
1	Body	1	CW617N
2	End-cap	1	CW617N
3	Disc	1	Hostaform
4	Seat	1	NBR (from 1/4" up to 3") FPM (from 4" size)
5	Disc guide	1	Hostaform
6	Stainless steel spring	1	1.4325 / AISI 302

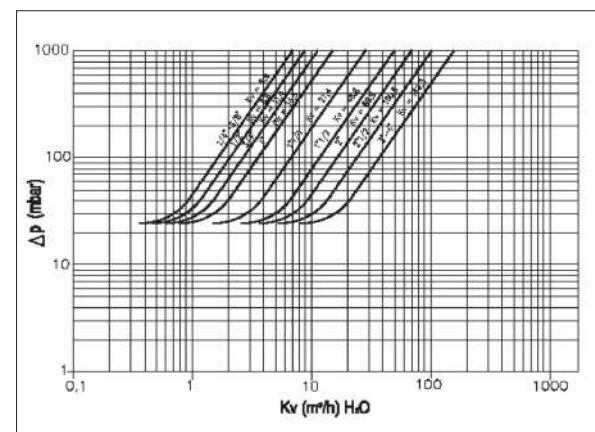


Code	123B00	123C00	123D00	123E00	123F00	123G00	123H00	123I00	123L00	123M00	123N00
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (mm)	10	10	15	20	25	32	40	50	65	80	80
A (mm)	28	28	34	41,5	50	60,5	73,5	89	114	137	142
C (mm)	46,5	46,5	50	59	67	76	90	101	127	150	133,5
CH (mm)	21	21	26	32	39	49	56	69	86	100	124
PN (bar)	40	40	40	30	30	25	25	25	16	16	16
Kv (m³/h)	6,9	6,9	8,8	11,4	14,5	27,4	48,8	68,9	100,6	162,3	162,3

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.123 NPT

Female/Female
1/4" - 1 1/4"
heavy pattern check valve



QUALITY

- Suitable for domestic, industrial, pneumatic and hydraulic installations
- Performs well in any orientation
- Strong configuration suitable to most difficult applications
- Low noise
- Low water hammer
- Lowest pressure drop

BODY

- Hot forged CW617N brass body
- Perfect seal at low and high pressure, within a wide temperature range

SEALING

- NBR sealing

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

WORKING PRESSURE & TEMPERATURE

- Cracking pressure: min 0.36 PSI (0.025 bar)
- Sealing pressure: min 0.72 PSI (0.05 bar)
- See nominal, non-shock cold working pressure in page 2
- -4°F to +212°F (-20°C to +100°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- Attestation de Conformité Sanitaire (France)
- **NOTE:** approvals apply to specific configurations/sizes only.

OPTIONS

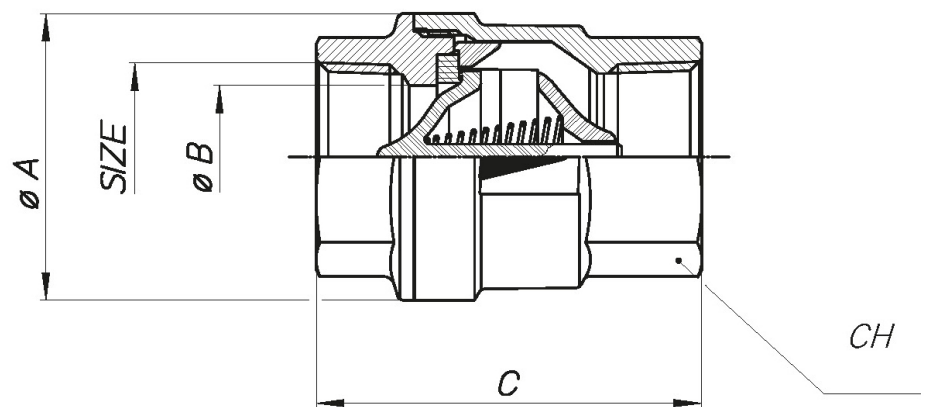
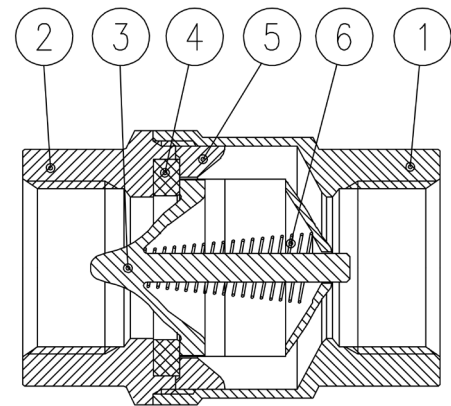
- Stainless steel filter
- ISO 228 parallel female by female threads

s.123 NPT XCE123N - 5466

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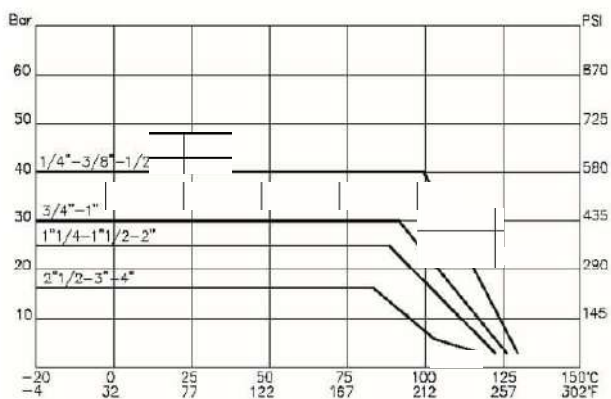


	Part description	Q.ty	Material
1	Body	1	CW617N
2	End-cap	1	CW617N
3	Disc	1	Hostaform
4	Seat	1	NBR
5	Disc guide	1	Hostaform
6	Stainless steel spring	1	1.4325 / AISI 302

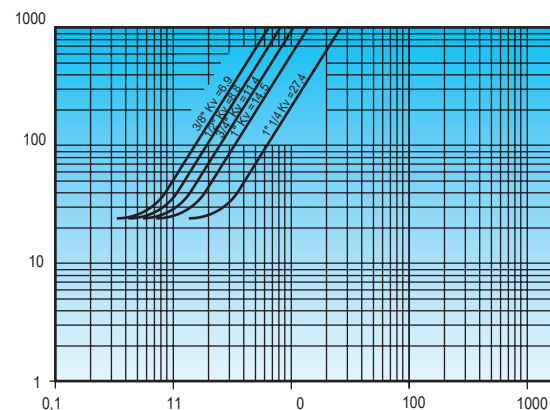


Code	123B41	123C41	123D41	1,23E+43	123F41	123G41
Size (inch)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"
ØA (inch)	1,1	1,1	1,34	1,63	1,97	2,38
B (inch)	0,39	0,39	0,59	0,79	0,98	1,26
C (inch)	1,83	1,83	2,07	2,32	2,64	2,99
CH (inch)	0,83	0,83	1,02	1,26	1,54	1,93
PN (psi)	580	580	580	435	435	363
Cv (GPM)	5,96	5,96	7,6	9,85	12,53	23,67

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.124

1/2" - 4"
ISO 228
foot valve



QUALITY

- Suitable for domestic, industrial, pneumatic and hydraulic installations
- Valve will perform its duty no matter if installed horizontally, vertically or half way
- Strong configuration

BODY

- Hot forged brass body
- * Stainless steel filter
- * Filtration degree 2400 µm

SEALING

- Soft seat for positive shut-off

THREADS

- ISO 228 female parallel thread

WORKING PRESSURE & TEMPERATURE

- 10 bar up to 1", 8 bar from 1 ¼" to 2", 6 Bar over 2" non-shock cold working pressure
- 0°C to +90°C (+32°F to +194°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25mm

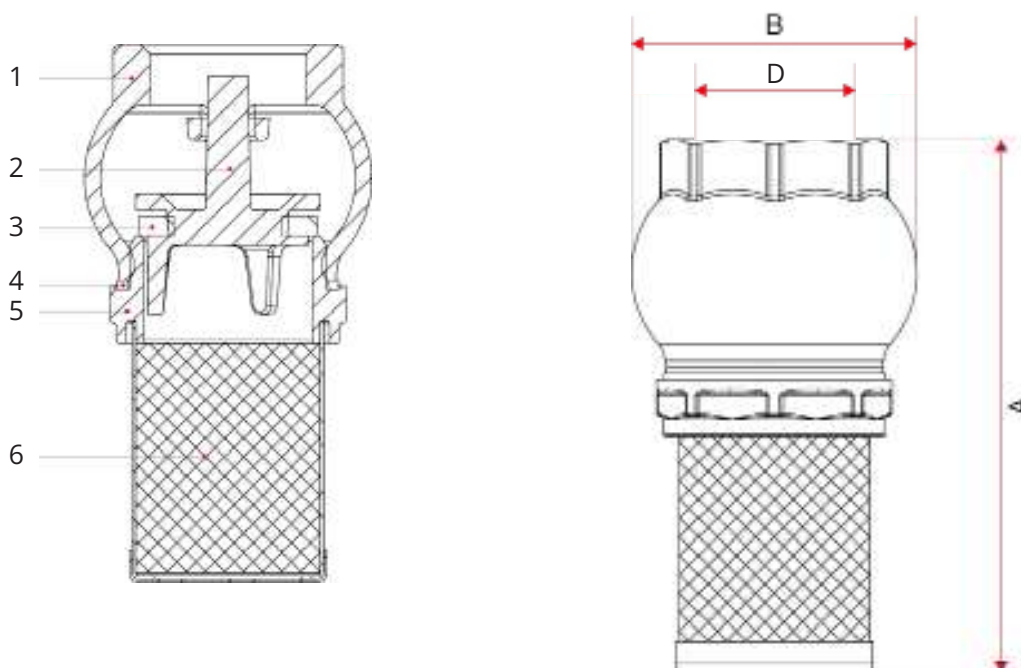
s.124 XCE124 - 5466

Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.



PLUMBING

	Part description	Q.ty	Material
1	Body	1	CW617N
2	Seat	1	CW617N
3	Seal	1	NBR
4	Gasket	1	Fibre
5	Retainer	1	CW617N
6	Strainer	1	AISI304 (1.4301)



Code	124D00	1,24E+02	124F00	124G00	124H00	124I00	124L00	124M00	124N00
D (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A (mm)	68,5	84,5	99,00	113,5	112,5	142,5	168,00	194,5	216,5
B (mm)	39,00	45,00	51,00	61,00	68,5	80,00	100,00	121,00	145,00
PN (Kg/cm ²)	10,00	10,00	10,00	8,00	8,00	8,00	6,00	6,00	6,00



s.126

Female/Female
3/8" - 2" swing check valve with rubber seals



QUALITY

- Suitable for domestic, industrial, pneumatic and hydraulic installations
- Strong configuration

BODY

- Hot forged brass body

SEALING

- Seals in NBR
- Compact inspection cap

THREADS

- ISO 228 female parallel thread

WORKING PRESSURE & TEMPERATURE

- 16 bar up to 3/4", 12 bar 1", 10 bar from 1 1/4" up to 2", non-shock cold working pressure
- 0°C to +90°C (+32°F to +194°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

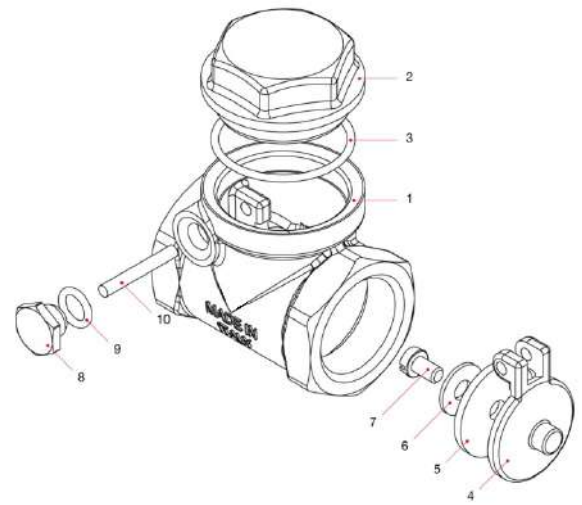
- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art .4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25 mm

s.126 XCE126 - 5466

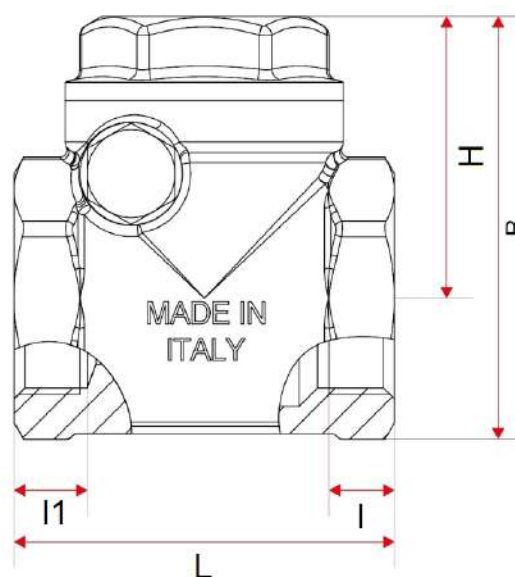
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	Part description	Q.ty	Material
1	Unplated body	1	CW617N
2	Unplated hexagonal cap	1	CW617N
3	Hexagonal cap O-ring	1	NBR
4	Bonnet	1	CW617N
5	Seal	1	NBR
6	Washer	1	CW508L
7	Screw	1	CW508L
8	Plug	1	CW614N
9	Plug O-ring	1	NBR
10	Nail	1	CW614N



Code	126C00	126D00	126E00	126F00	126G00	126H00	126I00
D (Size)	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	10	15	20	25	32	40	50
I (mm)	8	8	9	11,5	11,5	14,5	13
I1 (mm)	12	9,5	10	13	13	13	13,5
L (mm)	43	43	52	62	72	81	94
H (mm)	35	35	38,5	42	47	54	61
B (mm)	50	50	58	66	76	86	100
PN (Kg/cm ²)	16	16	16	12	10	10	10



Ask for additional information on the whole range of **RUB** products and consult with your supplier for special applications.
For complete disclaimer: www.rubvalves.com/disclaimer



s.126 M

Female/Female
3/8" - 2" swing check valve with metal seals



QUALITY

- Suitable for domestic, industrial, pneumatic and hydraulic installations
- Strong configuration

BODY

- Hot forged brass body

SEALING

- Metal seals
- Compact inspection cap

THREADS

- ISO 228 female parallel thread

WORKING PRESSURE & TEMPERATURE

- 16 bar up to 3/4", 12 bar 1", 10 bar from 1 1/4" up to 2", non-shock cold working pressure
- 0°C to +90°C (+32°F to +194°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art .4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25 mm

s.126 M XCE126M - 5466

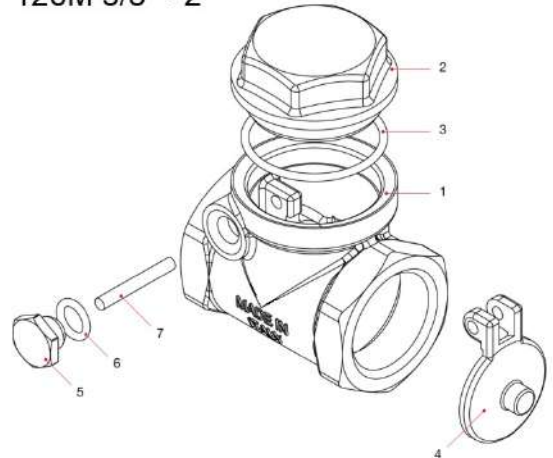
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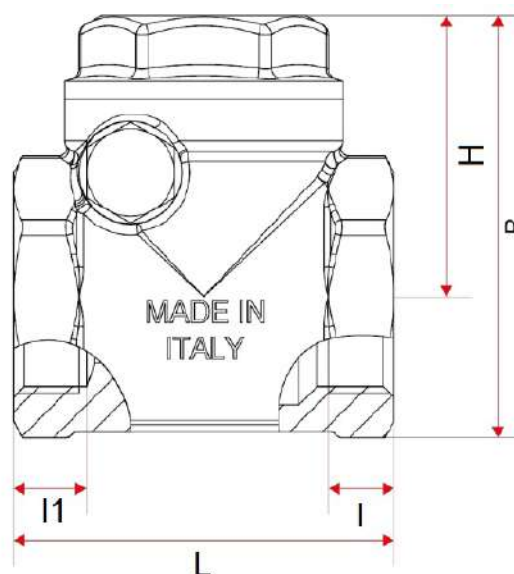
PLUMBING

	Part description	Q.ty	Material
1	Unplated body	1	CW617N
2	Unplated hexagonal cap	1	CW617N
3	Hexagonal cap O-ring	1	NBR
4	Bonnet	1	CW617N
5	Plug	1	CW614N
6	Plug O-ring	1	NBR
7	Nail	1	CW614N

126M 3/8" - 2"



Code	126C0M	126D0M	126E0M	126F0M	126G0M	126H0M	126I0M
D (Size)	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	10	15	20	25	32	40	50
I (mm)	8	8	9	11,5	11,5	14,5	13
I1 (mm)	12	9,5	10	13	13	13	13,5
L (mm)	43	43	52	62	72	81	94
H (mm)	35	35	38,5	42	47	54	61
B (mm)	50	50	58	66	76	86	100
PN (Kg/cm ²)	16	16	16	12	10	10	10



Ask for additional information on the whole range of **RUB** products and consult with your supplier for special applications.
For complete disclaimer: www.rubvalves.com/disclaimer



s.126 M NPT

Female/Female
1/2" - 2"

NPT swing check valve with metal seals



QUALITY

- Suitable for domestic, industrial, pneumatic and hydraulic installations
- Robust construction
- Inspection cap

BODY

- Hot forged brass body

SEALING

- Metal to metal sealing

THREADS

- NPT taper ANSI B.1.20.1 female by female threads

WORKING PRESSURE & TEMPERATURE

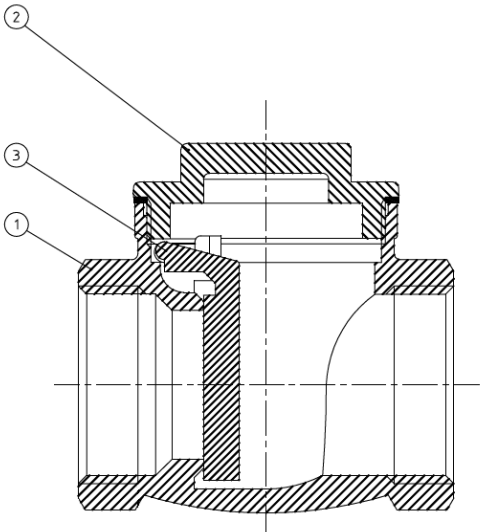
- 145 psi (10 bar) non-shock cold working pressure
- +32°F to +212°F (0°C to +100°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

s.126 M NPT XCE126MN - 5466

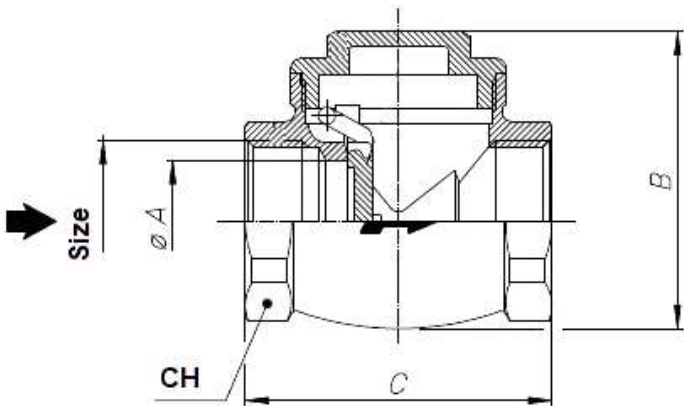
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Part description		Q.ty	Material
1	Unplated body	1	CW617N
2	Unplated bonnet	1	CW617N
3	Unplated sealing disc	1	CW617N



Code	126D4M	126E4M	126F4M	126G4M	126H4M	126DI4M
Size (inch)	1/2	3/4	1	1 1/4	1 1/2	2
ØA (inch)	0,59	0,78	0,98	1,29	1,45	1,85
B (inch)	1,81	2	2,4	2,87	3,34	3,7
C (inch)	1,85	2,08	2,48	2,91	3,42	3,81
CH (inch)	0,98	1,22	1,49	1,85	2,12	2,63
PN (psi)	145	145	145	145	145	145





s.128

Female/Female
1/4" - 4"

ISO 228, Y-strainer



QUALITY

- Suitable for industrial, pneumatic and hydraulic installations

BODY

- Hot forged CW617N brass body
- Stainless steel (1.4301 / AISI 304) filter
- Degree of filtration: 1/4" through 2" 500 µm, 2 1/2", 3", 4" 800 µm

THREADS

- ISO 228/1 female by female parallel threads and inspection plug

WORKING PRESSURE & TEMPERATURE

- 20 bar up to 2", 16 bar over 2" non-shock cold working pressure
- -20°C to +110°C (-4°F to +230°F) in absence of steam
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- The product described in this document meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking; it cannot be used with dangerous gases in sizes larger than 25 mm; it cannot be used with non-dangerous gases in sizes larger than 50mm

APPROVED BY OR IN COMPLIANCE WITH

- Attestation de Conformité Sanitaire (France)

NOTE: approvals apply to specific configurations/sizes only.

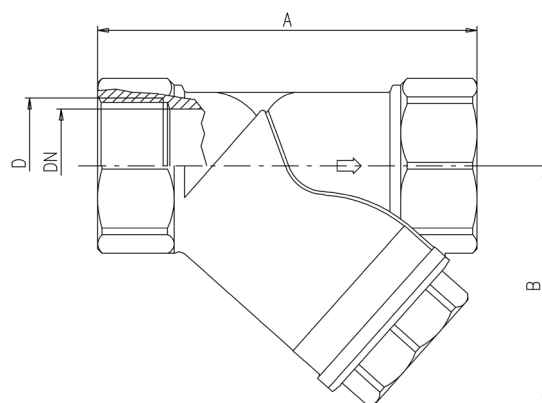
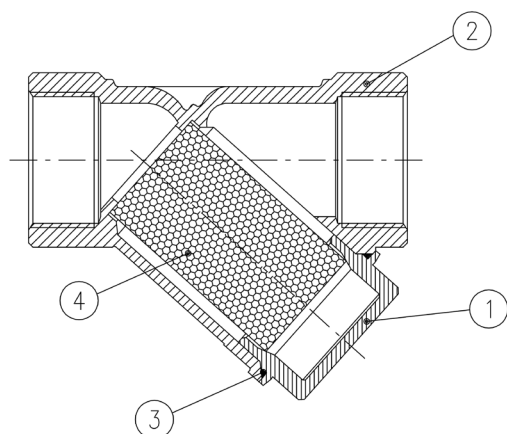
s.128 XCE128 - 5466

Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.



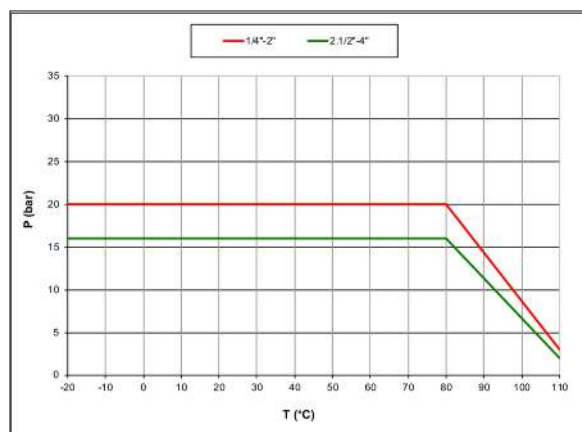
PLUMBING

	Part description	Q.ty	Material
1	End-cap	1	CW617N
2	Body	1	CW617N
3	O-Ring	1	NBR
4	Stainless steel strainer	1	1.4301 / AISI 304

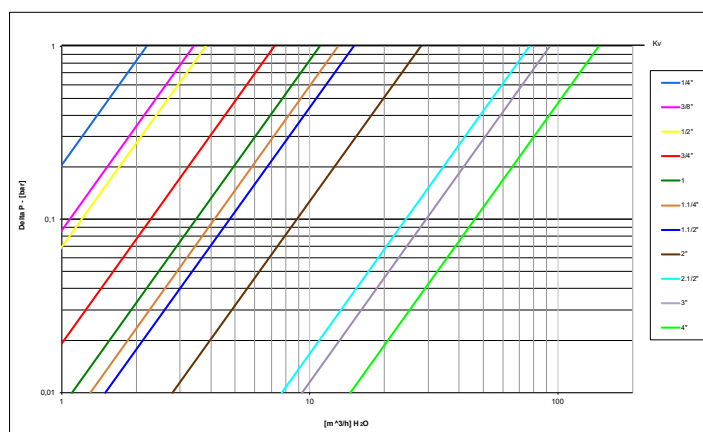


Code	128B00	128C00	128D00	128E00	128F00	128G00	128H00	128I00	128L00	128M00	128N00
D (inch)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A (mm)	55	55	58	70	87	96	106	126	150	169	219
B (mm)	40	40	40	48	56	64	73	88,5	105	120	162
DN	8	10	15	20	25	32	40	50	65	80	100
PN (Kg/cm ²)	20	20	20	20	20	20	20	20	16	16	16
Kv (m ³ /h)	2.2	3.4	3.8	7.2	11	13	15	28	77	93	146

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





S.140 bib-cock

1/2" - 3/4"
with plain outlet



QUALITY

- Chrome plated brass ball for longer life
- Plain outlet

BODY

- Hot forged sand blasted nickel plated brass body
- Angle pattern ball bib-cock
- Copper alloy brass according to EN 12165 and EN 12164 specifications

STEM

- Blowout-proof brass stem
- Maintenance-free, double O-rings (FPM and NBR) at the stem for maximum safety

SEALING

- Pure PTFE seats

THREADS

- UNI ISO 228 male inlet thread

HANDLE

- Enameled red steel handle
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 15 bar non-shock cold working pressure
- -20°C to +80°C (-4°F to +175°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

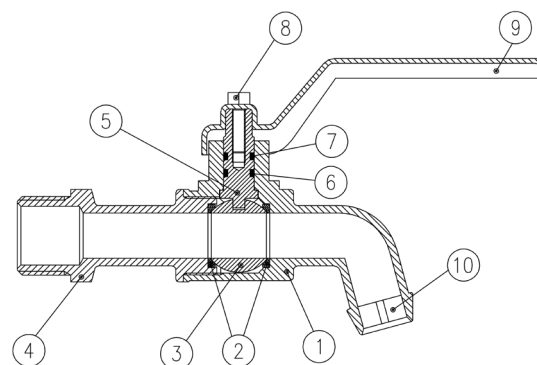
s.140 XCE140 - 5466

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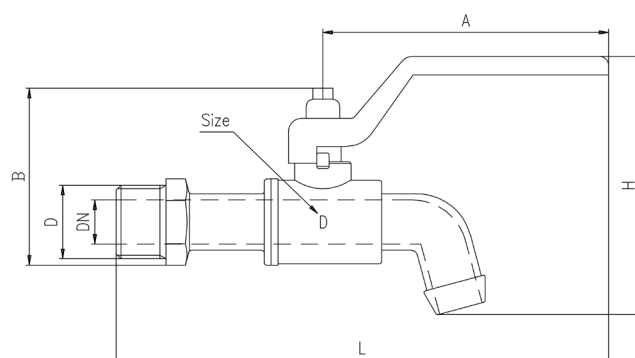


PLUMBING

	Part description	Q.ty	Material
1	Nickel plated body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW614N
4	Nickel plated end-cap	1	CW617N
5	Stem O-Ring design	1	CW617N
6	O-Ring	1	FPM
7	O-Ring	1	NBR
8	Screw	1	Steel
9	Enameled red handle	1	Steel
10	Infuser	1	Vestolen



Code	142C0P	142D0P
D (inch)	1/2"	3/4"
DN (mm)	10	12
B (mm)	49	54
L (mm)	129	131.5
A (mm)	80	80
H (mm)	60	65.5





s.142 bib-cock

3/8" - 1"
with 3/4" outlet and hose



QUALITY

- Chrome plated brass ball for longer life

BODY

- Hot forged sand blasted nickel plated brass body
- Angle pattern ball bib-cock with hose fitting
- Copper alloy brass according to EN 12165 and EN 12164 specifications

STEM

- Maintenance-free, double O-rings (FPM and NBR) at the stem for maximum safety

SEALING

- Pure PTFE seats

THREADS

- UNI ISO 228 male inlet thread
- 3/4" threaded outlet complete with hose

HANDLE

- Enameled red steel handle
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Handle removable with valve in service

WORKING PRESSURE & TEMPERATURE

- 15 bar up to 3/4", 12 bar 1" non-shock cold working pressure
- -20°C to +80°C
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- The product meets the requirements of PED Directive 2014/68/UE and according to art.4 par.3, it does not require CE marking

APPROVED BY OR IN COMPLIANCE WITH

- GOST-R (Russia)

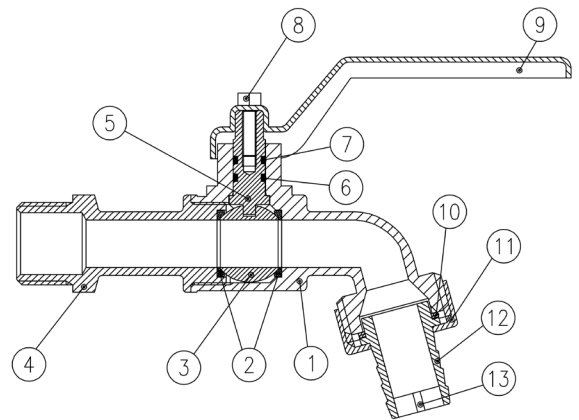
NOTE: approvals apply to specific configurations/sizes only.

s.142 XCE142 - 5466

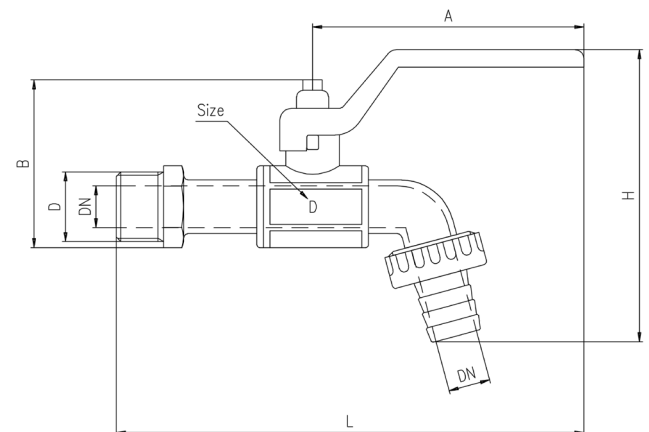
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	Part description	Q.ty	Material
1	Nickel plated body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW614N
4	Nickel plated end-cap	1	CW617N
5	Stem O-Ring design	1	CW614N
6	O-Ring	1	FPM
7	O-Ring	1	NBR
8	Zinc plated screw	1	CB4 (EN10263-2)
9	Enameled red handle	1	DC04 (EN10130)
10	Washer	1	PVC rubber
11	Nickel plated nut	1	CW617N
12	Nickel plated hose	1	CW617N
13	Infuser	1	Vestolen



Code	142C0P	142D0P	142E0P	142F0P
D (inch)	3/8"	1/2"	3/4"	1"
DN (mm)	10	12	12	15
B (mm)	53	53	61	65
L (mm)	135	137	148.5	158
A (mm)	80	80	88.5	88.5
H (mm)	93	93	108.5	126





s.190

1/2" - 2"
ISO 228
with built-in filter

This ball valve with built-in vertical filter allows a large flow rate with a low pressure drop and supports a maximum pressure of 30 bar (PN).

This innovative product avoids the installation of two ball valves, before and after the filter. Quick and easy assembly, maintenance and cleaning.



QUALITY

- Substitutes 3 different components (2 ball valves and one filter)
- Reduces leakage risks due to lower sealing points
- Cost saving due to reduced number of components
- Time saving at installation and maintenance
- Built-in vertical filter with cartridge structure in AISI304 + Nylon (filtration degree: 500 microns / 35 mesh). Size 1/2" has a central rib to ease filter extraction.
- Final test conforming with UNI EN 12266-1 points A3 / A4 (for 1 1/2" and 2" sizes: acc. to directive 2014/68/UE)
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Chrome plated brass ball for longer life
- Handle stop on body to avoid stress at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications
- Bottom plug for an easy filter maintenance

STEM

- Blowout-proof unplated brass stem
- Two O-rings at the stem (FKM + NBR) for maximum safety

SEALING

- Pure PTFE seats

THREADS

- ISO 228 parallel female by female threads

FLOW

- Nominal port

HANDLE

- Zinc plated steel handle with plastic dip coating
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 bar (450 PSI) non-shock cold working pressure for sizes 1/2" to 1", 20 bar (290 PSI) for sizes 1 1/4" to 2"
- -20°C to +150°C (-4°F to +300°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- According to 2014/68/UE, 1 1/4" and superior sizes cannot be used with dangerous fluids

APPROVED BY OR IN COMPLIANCE WITH

- Water Regulations Advisory Scheme (United Kingdom)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- T-handle for 1/2" to 1" sizes.



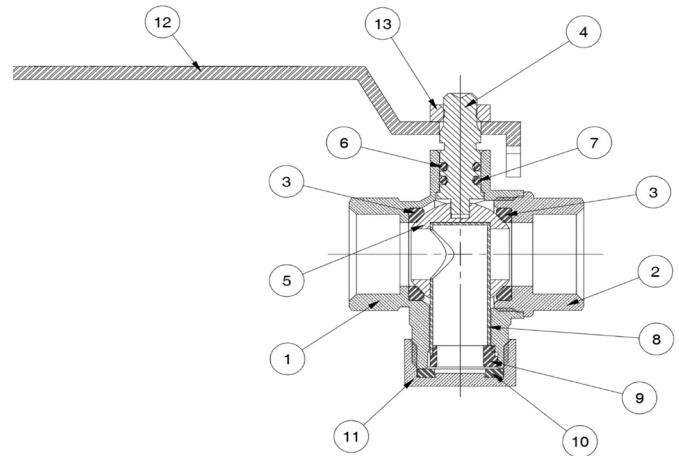
s.190 XCE190 - 5466

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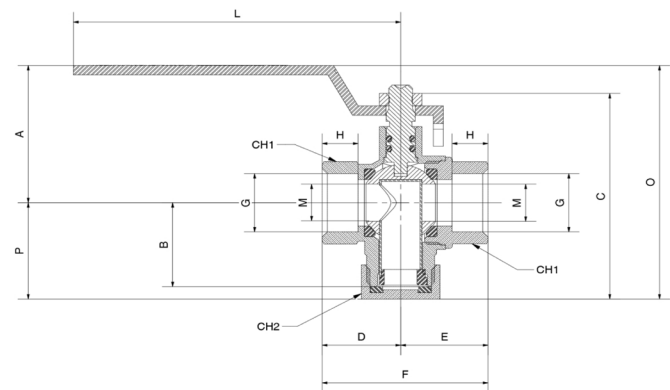


PLUMBING

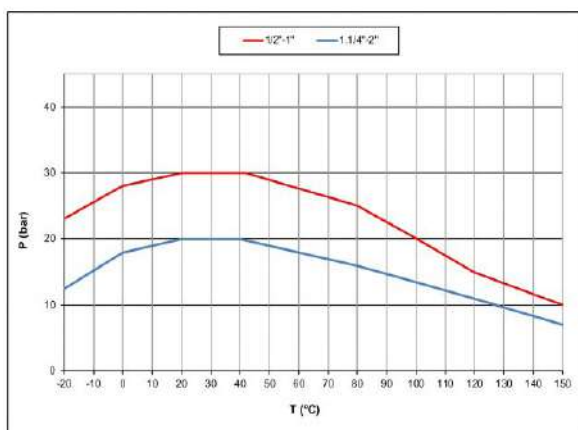
	Part description	Q.ty	Material
1	Nickel plated body (external treatment)	1	CW617N
2	Nickel plated end-cap (external treatment)	1	CW617N
3	Seat	1	PTFE
4	Unplated stem O-ring design	1	CW614N
5	Chrome plated ball	1	CW617N
6	O-Ring	1	NBR
7	O-Ring	1	FKM
8	Filter	1	AISI304 + Nylon
9	Filter	1	AISI304 + Nylon
10	Flat seal	1	NBR
11	Plug	1	CW614N
12	Black plastic coated zinc plated handle	1	Steel
13	Zinc plated nut	1	Steel



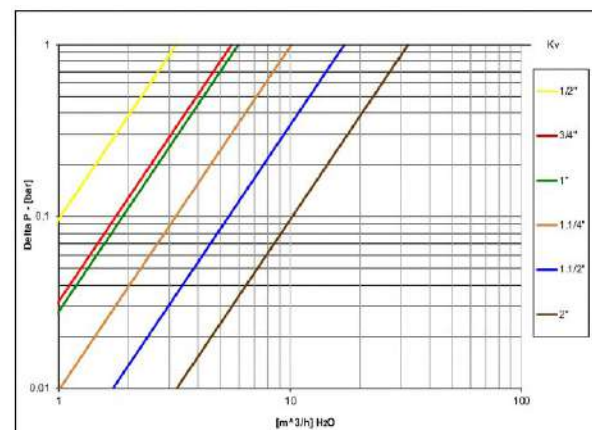
Code	190D00	190E00	190F00	190G00	190H00	190I00
Size (inch)	1/2	3/4	1	1 1/4	1 1/2	2
A (mm)	44,2	47,4	50,8	74	80	88,5
B (mm)	27	30,9	34,5	46,5	52,5	63,5
C (mm)	66,2	73,5	80,5	106	118	143
D (mm)	24	29	34,5	40	45,5	54
E (mm)	26,7	32,3	35,6	45	52	63
F (mm)	50,7	61,3	70,1	85	97,5	117
H (mm)	11	13	15	17	17	20
L (mm)	100	100	100	158	158	158
M (mm)	12	16	20	28	36	46
O (mm)	75,2	82,5	89,5	125,5	137,5	157
P (mm)	31	35,1	38,7	51,5	57,5	68,5
CH1 (mm)	25	31	38	48	54	66
CH2 (mm)	24	30	38	46	55	65
PN (bar)	30	30	30	20	20	20
Kv (m³/h)	3,22	5,58	5,97	10,12	17,14	32,3



PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.190M

3/4" - 2"
ISO 228
with built-in filter and magnet

This ball valve with built-in vertical filter allows a large flow rate with a low pressure drop and supports a maximum pressure of 30 bar (PN).

This innovative product avoids the installation of two ball valves, before and after the filter.

Quick and easy assembly, maintenance and cleaning.



QUALITY

- Substitutes 3 different components (2 ball valves and one filter)
- Reduces leakage risks due to lower sealing points
- Cost saving due to reduced number of components
- Time saving at installation and maintenance
- Built-in vertical filter with cartridge structure in 1.4301 / AISI304 + Nylon (filtration degree: 500 microns / 35 mesh).
- Final test conforming with UNI EN 12266-1 points A3 / A4 (for 1 1/2" and 2" sizes: acc. to directive 2014/68/UE)
- No metal-to-metal moving parts
- Handle clearly shows ball position
- Chrome plated brass ball for longer life
- Handle stop on body to avoid stress at stem

BODY

- Hot forged sand blasted, external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications
- Bottom plug for an easy filter maintenance

STEM

- Blowout-proof unplated brass stem
- Two O-rings at the stem (FKM + NBR) for maximum safety

SEALING

- Pure PTFE seats

THREADS

- ISO 228/1 parallel female by female threads

FLOW

- Nominal port

HANDLE

- Zinc plated steel handle with plastic cover
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 30 bar (450 PSI) non-shock cold working pressure for sizes 3/4" to 1", 20 bar (290 PSI) for sizes 1 1/4" to 2"
- -20°C to +100°C (-4°F to +212°F)
- Valve conforming with directive 2014/68/EU
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

PED DIRECTIVE

- According to 2014/68/UE, 1 1/4" and superior sizes cannot be used with dangerous fluids

APPROVED BY OR IN COMPLIANCE WITH

- Water Regulations Advisory Scheme (United Kingdom)

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

- T-handle for 1/2" to 1" sizes

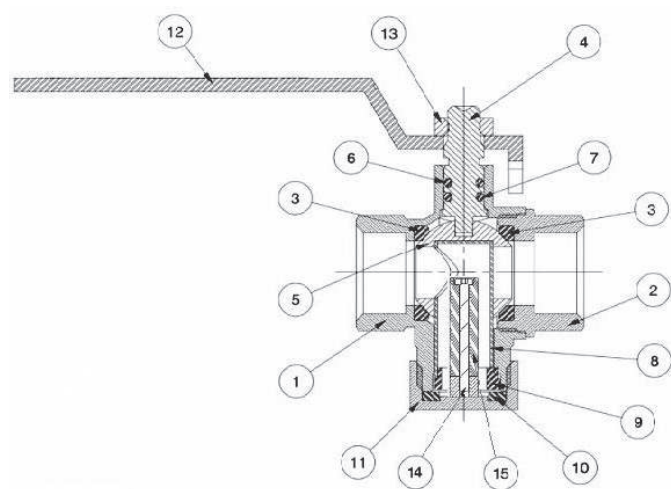


s.190 M XCE190M - 5466

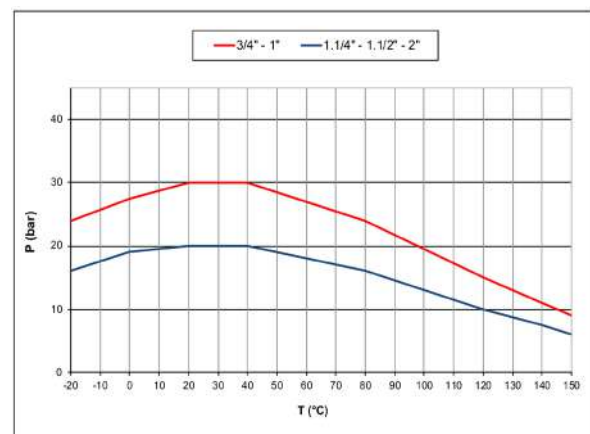
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	Part description	Q.ty	Material
1	Nickel plated body	1	CW617N
2	End connection	1	CW617N
3	Seals	2	PTFE
4	Stem	1	CW614N
5	Chrome plated ball	1	CW617N
6	O-Ring	1	NBR
7	O-Ring	1	FKM
8	Filter	1	1.4301 / AISI304 + Nylon
9	Filter	1	1.4301 / AISI304 + Nylon
10	Flat seal	1	NBR
11	Plug	1	CW614N
12	Handle	1	Zinc plated steel, plastic cover
13	Nut	1	Zinc plated steel
14	Screw	1	Stainless steel
15	Magnet	1	Neodymium (12,000gauss) NdFeB

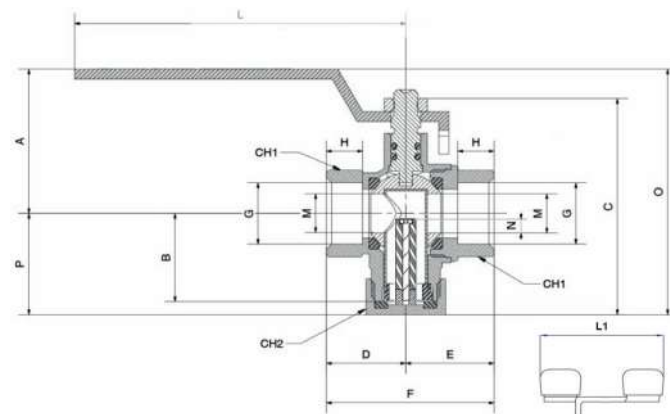


PRESSURE-TEMPERATURE CHART

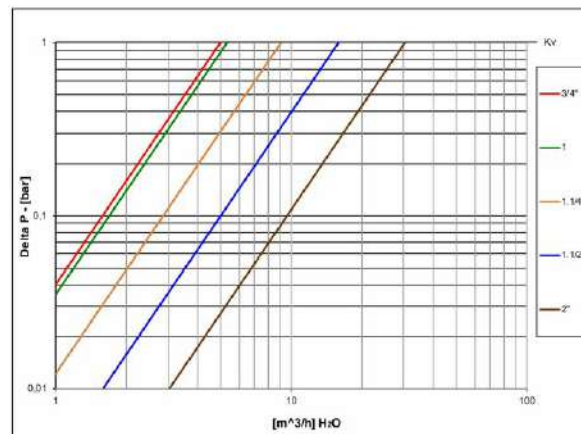


Code	190E00M	190F00M	190G00M	190H00M	190I00M
D (inch)	3/4	1	1 1/4	1 1/2	2
A	47,4	50,8	74	80	88,5
B	30,9	34,5	46,5	52,5	63,5
C	73,5	80,5	106	118	143
D	29	34,5	40	45,5	54
E	32,3	35,6	45	52	63
F	61,3	70,1	85	97,5	117
H	13	15	17	17	20
L	100	100	158	158	158
L1	68	68	-	-	-
DN M	16	20	28	36	46
N	8	5,5	13	11	13
O	82,5	89,5	125,5	137,5	157
P	35,1	38,7	51,5	57,5	68,5
CH1 OCT	31	38	48	54	66
CH2 HEX	30	38	46	55	65
PN Max bar	30	30	20	20	20
Kv (m3/h)	5,01	5,35	9,06	15,90	30,40

Suitable for dangerous fluids, in compliance with **DIRECTIVE 2014/68/EU Group 1 fluids**



PRESSURE DROP CHART



ACCESSORIES CATALOG

RuB accessories are designed to address diverse operational challenges, offering solutions for flow control, tamper resistance, space constraints, and thermal efficiency. With customizable options and tailored designs, we provide flexibility to meet unique requirements, ensuring optimal performance and functionality in every application.



Accessories to forged RuB ball valves

Geomet® carbon steel lever	Page 365
AISI 430 stainless steel lever	Page 365
Geomet® carbon steel left lever	Page 366
Geomet® carbon steel 90° reverse lever	Page 366
Aluminum - brass - Geomet® carbon steel T-handle	Page 367
Patented lockable handle for RuB manual ball valves	Page 368
Lockable handle for 3-way ball valves series s.76 (L-port) and s.64/T.264 with ISO5211 F03 mounting flange	Page 369
Lockable handle for 3-way ball valves series s.73 (T-port) with ISO5211 F03 mounting flange	Page 369
Oval lockable handle for RuB manual ball valves	Page 370
Memory stop Use together with RuB stubby handles with knurling	Page 371
Geomet® carbon steel stubby handle	Page 371
Stem Extension for RuB ball valves with O-ring stem design	Page 372

Accessories to mini and micro ball valves

Nylon lever and T-handle for s.34	Page 374
Nylon wedge handle for s.35	Page 375
Metal wedge handle for s.35	Page 375
Nylon wedge handle for s.39 micro	Page 375

Miscellaneous accessories

Union connection set for s.9036	Page 376
Union connection set for s.80	Page 377
Dielectric union connection set for s.80	Page 377
Filter for check valves s.120	Page 378
Filter for check valves s.123	Page 379
Filter (500 µm mesh) for s.190	Page 379
Drains and caps for s.81	Page 380
Top lever caps for RuB ball valves	Page 381

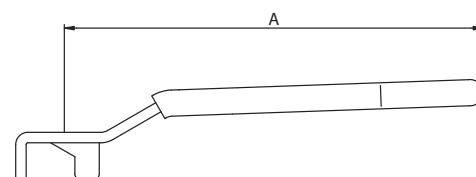
Accessories to actuators

Limit switch box	Page 382
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Geomet® carbon steel lever



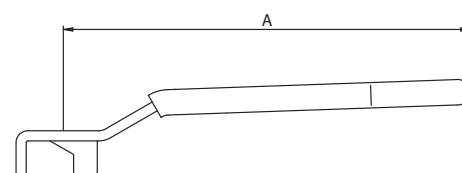
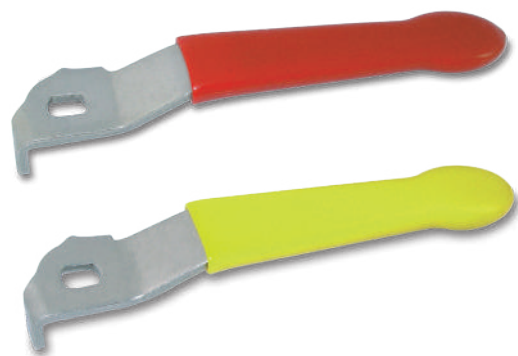
Full port		1/4"÷3/8"	1/2"	3/4÷1"	1 1/4"÷2"	2 1/2÷4"
Standard port		1/4"÷3/8"	1/2"÷3/4"	1"÷1 1/4"	1 1/2"÷2 1/2"	3"÷4"
A (mm)		82	100	120	158	255
Red	Code	PLFR11	PLFR13	PLFR16	PLFR19	PMFR20
Yellow	Code	PLFG11	PLFG13	PLFG16	PLFG19	PMFG20
Black	Code	PLFN11	PLFN13	PLFN16	PLFN19	PMFN20
White	Code	PLFW11	PLFW13	PLFW16	PLFW19	PMFW20
Light Blue	Code	PLFA11	PLFA13	PLFA16	PLFA19	PMFA20
Green	Code	PLFV11	PLFV13	PLFV16	PLFV19	PMFV20



* PMFG20

Part description		Q.ty	Material
1	Geomet plated steel handle	1	DD11 (EN10111)
2	Dipped coating	1	PVC

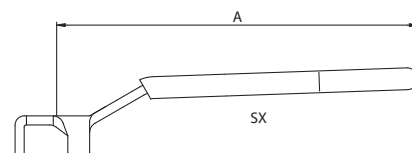
AISI 430 stainless steel lever



Full port		1/4"÷3/8"	1/2"	3/4÷1"	1 1/4"÷2"
Standard port		1/4"÷3/8"	1/2"÷3/4"	1"÷1 1/4"	1 1/2"÷2 1/2"
A (mm)		82	100	120	158
Red	Code	PLAR11	PLAR13	PLAR16	PLAR19
Yellow	Code	PLAG11	PLAG13	PLAG16	PLAG19

Part description		Q.ty	Material
1	Stainless steel handle	1	AISI 430
2	Dipped coating	1	PVC

Geomet® carbon steel left lever

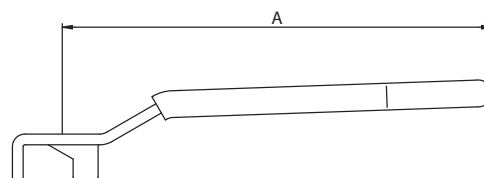


Description	Q.ty	Material
Geomet® plated steel handle	1	DD11 (EN10111)
Dipped coating	1	PVC

Full port	1/4"÷3/8"	1/2"
Standard port	1/4"÷3/8"	1/2"÷3/4"
A (mm)	100	100
Black	Code	PLFN10

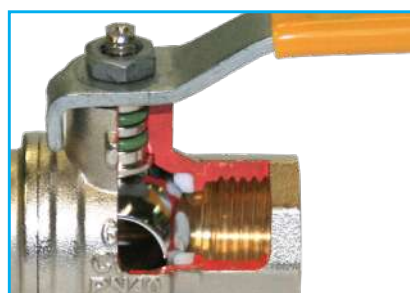
The left handles are the solution where the valves are installed on a parallel piping system.

Geomet® carbon steel 90° reverse lever



Full port		1/2"
Standard port		1/2"÷3/4"
A (mm)		100
Yellow	Code	PLIG03
Light Blue	Code	PLIA03
Light Blue SX	Code	PLIA00

Description	Q.ty	Material
Geomet® plated steel handle	1	DD11 (EN10111)
Dipped coating	1	PVC



We have also reversed handle: in this version the handle is parallel to the pipe when the valve is closed and perpendicular when the valve is open. This option is available only in the small size for valves up to 1/2" (or 3/4" for reduced bore)

Stem flats show actual ball position

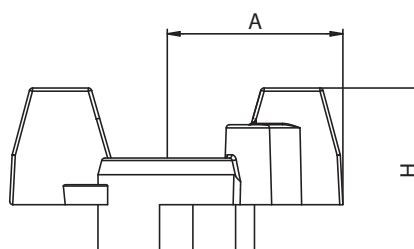
Aluminum - brass - Geomet® carbon steel T-handle



Corrosion is a big problem that many have to face when using valves in underground or outdoor installations, especially near sea, or when valves are used in swimming pools (chlorine), trucks or fire-fighting equipment.

Most people understand that brass components performance are quite high, while the problem with a ball valve may arise from a component you would have never thought about: the aluminum T-handle.

To benefit of brass resistance to corrosion, **RuB** has developed brass T-handles.



Full port	1/4"÷3/8"	1/2"	3/4÷1"
Standard port	1/4"÷3/8"	1/2"÷3/4"	1"÷1 1/4"
A (mm)	25	25	30
H (mm)	25	25	28
Red	Code PFAR03	PFAR03	PFAR06
Yellow	Code PFAG03	PFAG03	PFAG06
Light Blue	Code PFAB03	PFAB03	PFAB06
Green	Code PFAV03	PFAV03	PFAV06

Description	Q.ty	Material
T-handle	1	EN AC- 46100

Full port	1 1/4"÷2"
Standard port	1 1/2"÷2 1/2"
A (mm)	57
H (mm)	51
Red	Code PFFR09
Yellow	Code PFFG09
Light Blue	Code PFFA09
Green	Code PFFV09
Brass unplated	Code --
Brass nickel plated	Code --

Description	Q.ty	Material
Geomet® plated steel T-handle	1	DD11 (EN10111)
Dipped coating	1	PVC

Full port	1/4"÷3/8"	1/2"	3/4÷1"
Standard port	1/4"÷3/8"	1/2"÷3/4"	1"÷1 1/4"
A (mm)	25	25	30
H (mm)	25	25	28
Brass unplated	Code PFOG03	PFOG03	PFOG06
Brass nickel plated	Code PFON03	PFON03	PFON06

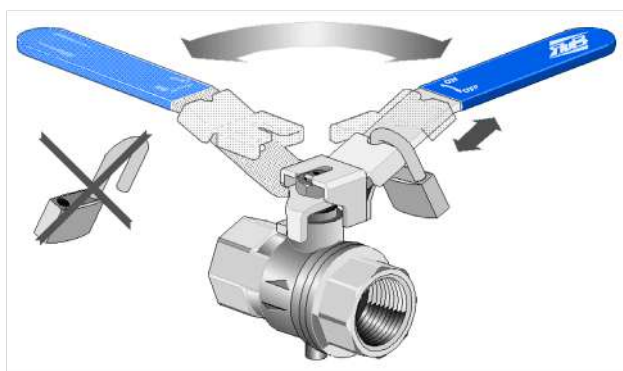
Description	Q.ty	Material
Unplated brass T-handle	1	CW617N
Nickel plated brass T-handle	1	CW617N

Patented lockable handle

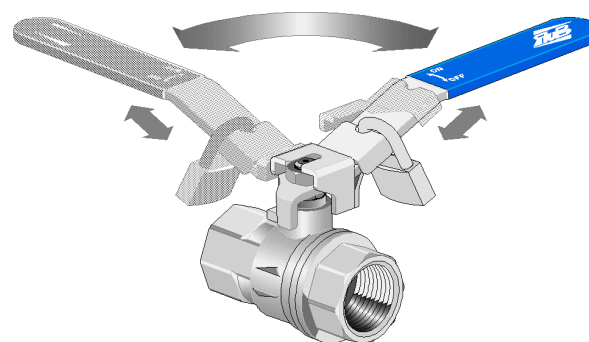
for **RuB** manual ball valves



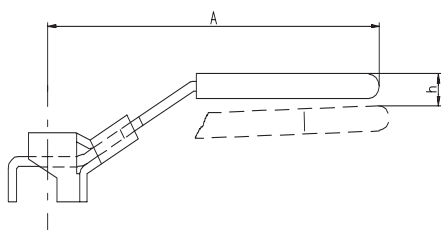
The **RuB** lockable handle is made of strong Geomet® carbon steel and designed to discourage tampering. The **RuB** locking device covers the top nut of the valve making padlock removal impossible without a key. Easy to install on valves in the field, the **RuB** lockable handle will lock s.93 **RuB** valves in closed position only in compliance with OSHA (USA) safety requirements, while other **RuB** valves can be locked in both the open and closed positions.



Lockable only in closed position when assembled on s.93 **RuB** range



Lockable in both open and closed positions when assemble on any other **RuB** range



Code	PBFA13	PBFA16	PBFA19	PBFA20
Full port	1/4"÷3/8"÷1/2"	3/4"÷ 1"	1 1/4"÷1 1/2" ÷2"	2 1/2"÷3"÷4"
Reduced port	1/2"÷3/4"	1"÷1 1/4"	1 1/2"÷2"÷2 1/2"	3"÷4"
A (mm)	96	117	156.5	250
h (mm)	8.5	9.5	4	8

Description	Q.ty	Material
Geomet® plated steel handle	1	DD11 (EN10111)
Dipped coating	1	PVC

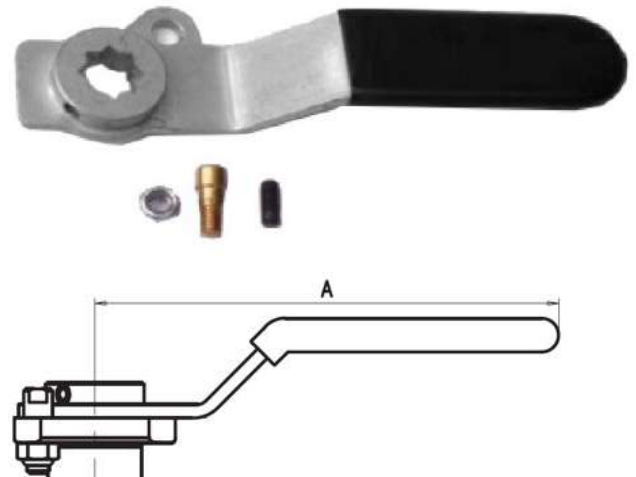
Dimension A shows handle length from center of stem; dimension h shows height of handle compared to standard handle assembled on valves. Two bottom lines show size of valve to fit with each size of lockable handle. Use 9/32" size shackle padlock up to 2", and 5/16" over.

Lockable handle

for 3-way ball valves series s.76 (L-port) and s.64/T.264 with ISO5211 F03 flange

Flange Size		F03
A (mm)		103
Black	Code	SLFD03

Description	Q.ty	Material
Geomet® plated steel handle	1	DD11 (EN10111)
Dipped coating	1	PVC
Stainless steel screw	1	AISI 304
Zinc plated steel nut	1	Class 8 (UNI7474)
Unplated stop	1	CW617N



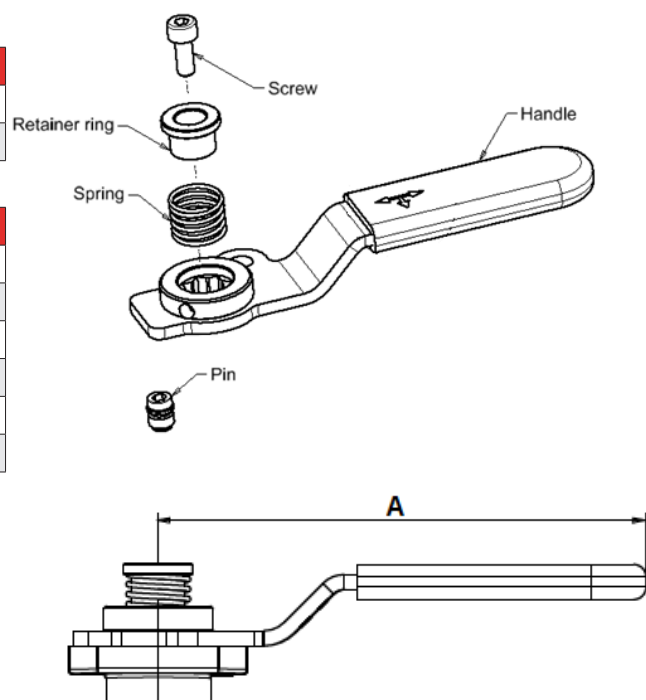
This kit easily converts an actuated valve to a manual one.
To lock valve in any position, use 4mm (5/32") shackle padlock.

Lockable push & turn handle

for 3-way ball valves series s.73 (T-port) with ISO5211 F03 flange

Flange Size		F03
A (mm)		103
Black	Code	K73N13

Description	Q.ty	Material
Geomet® plated steel handle	1	DD11 (EN10111)
Dipped coating	1	PVC
Screw	1	AISI 304
Retainer ring	1	CW617N
Spring	1	AISI 302
Pin	1	CW617N



To lock valve in any position, use 4mm (5/32") shackle padlock.

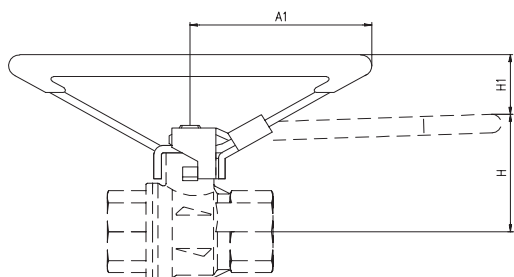
Oval lockable handle

for **RuB** manual ball valves



The **RuB** oval/round lockable handle is for service where there isn't enough space for levers or T-handles, or where lever handles might be moved unintentionally. It is made of steady carbon steel and it features the patented **RuB** lockable device.

The **RuB** oval lockable handle is available for all sizes of forged **RuB** valves up to 2" and in round shape for sizes 2 ½" thru 4"; it is easy to install on valves in the field or you can simply order your **RuB** valves with this option.



Code	PBOA03		PBOA06	PBOA09	PBOA10
Size	1/4"÷3/8"	1/2"	3/4"÷1"	1 ¼"÷1 ½"÷2"	2 ½"÷3"÷4"
A1 (mm)	58	58	70	70	155
H1 (mm)	20	19.5	22	15	3.2

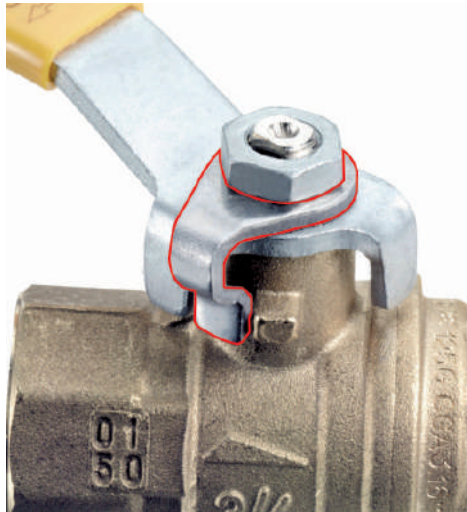
Size	1/4"÷ 2"	2 ½"÷ 4"
Locker shackle	9/32"	5/16"

Description	Q.ty	Material
Geomet® plated steel handle	1	DD11 (EN10111)
Dipped coating	1	PVC

Dimension A1 shows handle dimension from centre of stem. Dimension H1 shows height of handle compared to standard handle assembled on valves.

Memory stop

Use together with **RuB** stubby handles with knurling

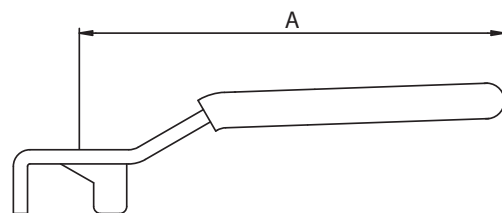


Full port valve	1/4"÷3/8"	1/2"	3/4÷1"	1 1/4"÷2"
Standard port valve	1/4"÷3/8"	1/2"÷3/4"	1"÷1 1/4"	1 1/2"÷2 1/2"
Code	PPMA03	PPMA03	PPMA06	PPMA09

Description	Q.ty	Material
Geomet® plated steel memory stop	1	DD11 (EN10111)

Memory Stop allows to control flow passing through the valve by curbing ball movement from fully closed to a preset position. Installing a memory stop on a standard **RuB** valve is very easy and can be done even while valve is being used. Memory stops should be used only with **RuB** valves with O-Ring stem design

Geomet® carbon steel stubby handle



Full port valve		1/4"÷3/8"	1/2"	3/4÷1"	1 ¼"÷2"
Standard port valve		1/4"÷3/8"	1/2"÷3/4"	1"÷1 ¼"	1 ½"÷2 ½"
A (mm)		45	45	90	100
Yellow	Code	PLTG13	PLTG13	PLTG16	PLTG19

Description	Q.ty	Material
Geomet® plated steel handle	1	DD11 (EN10111)
Dipped coating	1	PVC

RuB levers are not only strong, but also long for easy maneuver. To solve space constraints issues, install our stubbies.

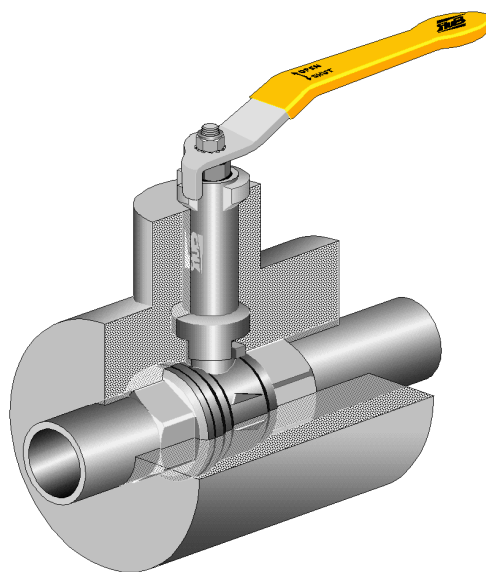
Stem Extension

for *RuB* ball valves with O-ring stem design

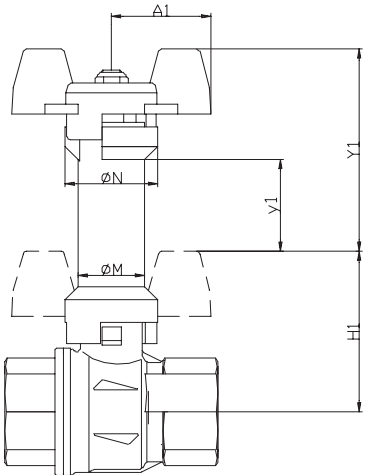
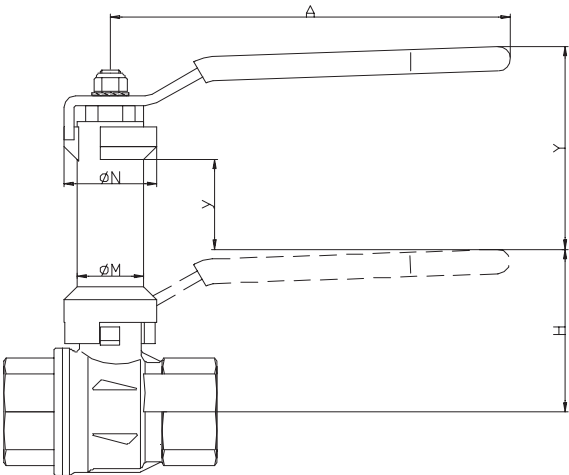


Today's world is conscious of the energy savings required to maintain resources for the future. To avoid heat loss from insulated pipes, **RuB** offers stem extensions which provide easy operation over insulation.

RuB stem extensions are made of strong hot forged brass and are designed for low heat losses from the pipe to the ambient environment. They are easy to install on **RuB** valves even while valves are in service.



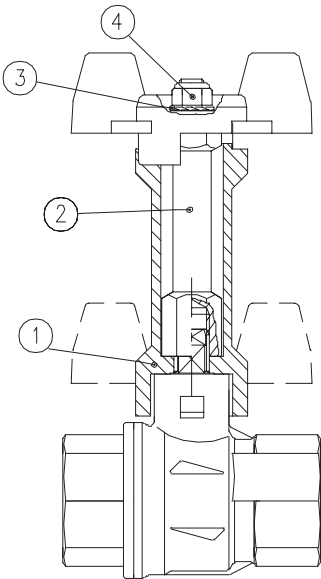
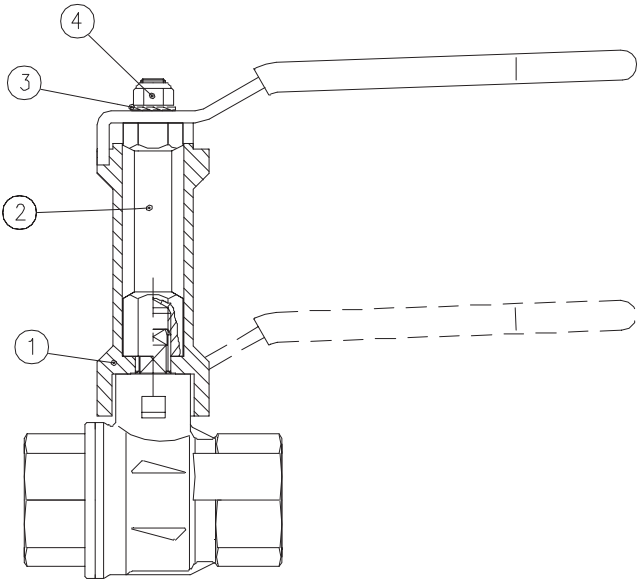
Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.



Dimensions Y, y, Y1 and y1 are additional to dimension H on the relevant valve drawing

Code	PPRO03		PPRO06	PPRO09
Full port valve	1/4"÷3/8"	1/2"	3/4"÷1"	1 1/4"÷1 1/2"÷2"
Reduced port valve		1/2"÷3/4"	1"÷1 1/4"	1 1/2"÷2"÷2 1/2"
M (mm)	17	17	20	26
N (mm)	25	25	28	36
A (mm)	82	100	120	158
Y (mm)	56.5	56.5	62.5	67.5
y (mm)	26.5	26.5	27.5	20.5
A1 (mm)	25	25	30	--
Y1 (mm)	56.5	56.5	62.5	--
y1 (mm)	25.5	26	30.5	--

Note: Stem extensions should not be used on valves with packing gland designs due to regular required maintenance adjustments.



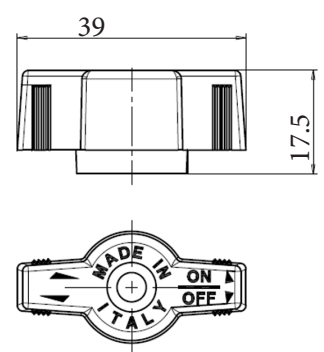
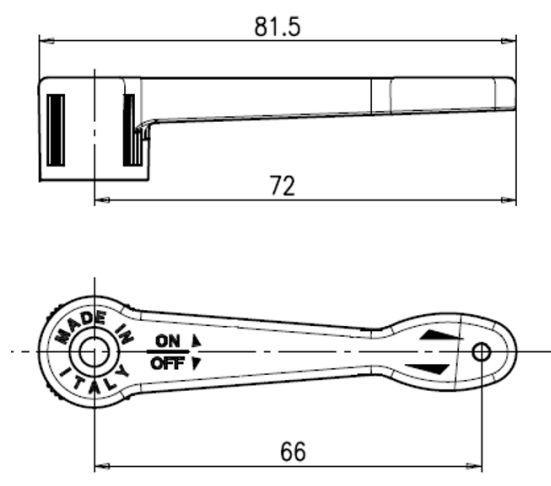
Item	Description	Q.ty	Material
1	Body	1	CW617N
2	Connection	1	CW617N
3	Tab washer	1	Steel
4	Self-locking nut	1	Steel

Accessories

to mini and micro ball valves

Nylon lever and T-handle

for s.34



Item No	Description	Colour
PLNB34	Blue nylon lever for s.34	RAL5017
PLNG34	Yellow nylon lever for s.34	RAL1028
PLNN34	Black nylon lever for s.34	RAL9005
PLNR34	Red nylon lever for s.34	RAL3000

Description	Q.ty	Material
Lever for s.34	1	Nylon glass filled 30%

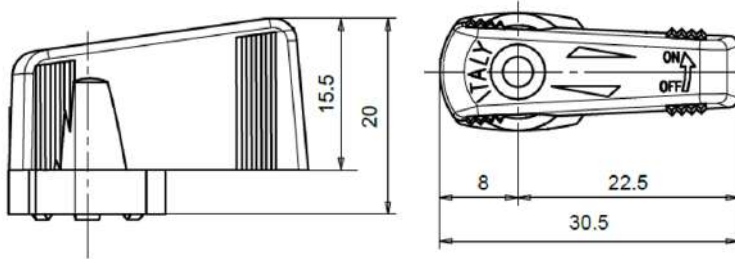
Item No	Description	Colour
PFNA34	Orange nylon T-handle for s.34	RAL2009
PFNB34	Blue nylon T-handle for s.34	RAL5017
PFNG34	Yellow nylon T-handle for s.34	RAL1028
PFNN34	Black nylon T-handle for s.34	RAL9005
PFNR34	Red nylon T-handle for s.34	RAL3000

Description	Q.ty	Material
T-handle for s.34	1	Nylon glass filled 30%



Nylon wedge handle

for s.35



Item No	Description	Colour
PLN35G	Yellow nylon wedge handle for s.35	RAL1028
PLN35N	Black nylon wedge handle for s.35	RAL9005
PLN35R	Red nylon wedge handle for s.35	RAL3000
PLN35V	Green nylon wedge handle for s.35	RAL6001
PLG35N (Upon request)	Grey Grivory® wedge handle for s.35	RAL7012

Description	Q.ty	Material
Wedge handle for s.35	1	Nylon glass filled 30%

Metal wedge handle

for s.35



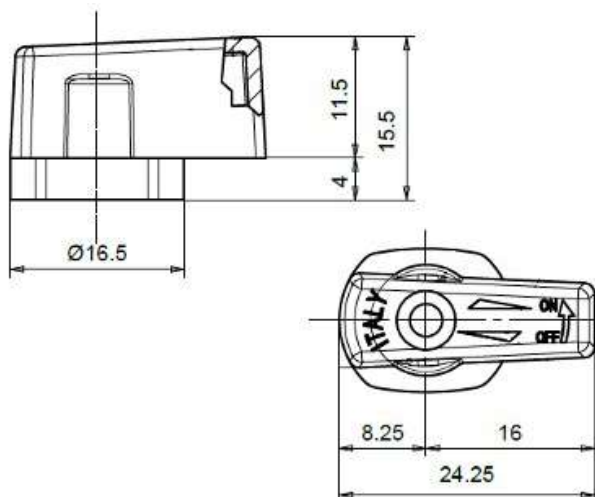
Colours	Yellow	Blue	Black	Red	Green	Chrome
Code	PLZ35G	PLZ35B	PLZ35N	PLZ35R	PLZ35V	PLZ35C

Description	Q.ty	Material
Metal wedge handle for s.35	1	ZAMA Z5

Thanks to the metal wedge handles mounted on s35 series, it's now possible to reach working temperatures up to 120°C (250°F). The metal wedge handles are available in red, black, yellow, green, light blue and chrome plated. Same dimensions as nylon wedge handle.

Nylon wedge handle

for s.39 micro



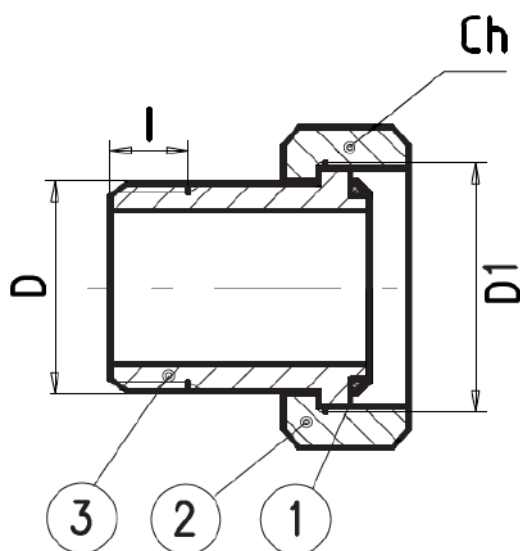
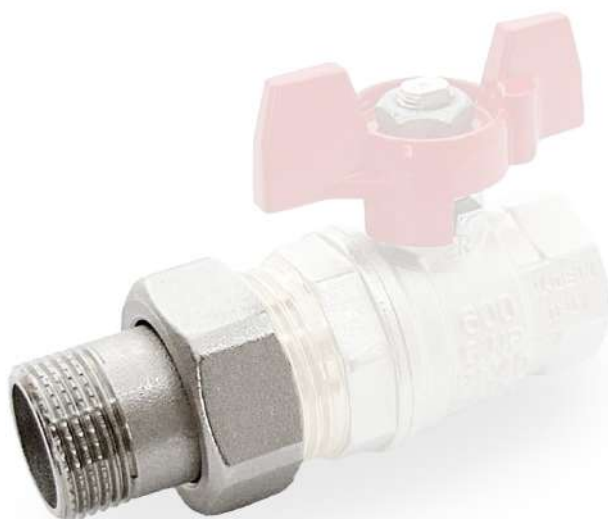
Item No	Description	Colour
PLN39N	Black nylon wedge handle for s.39	RAL9005

Description	Q.ty	Material
Wedge handle for s.39	1	Nylon glass filled 30%

Miscellaneous accessories

Union connection set

for s.9036

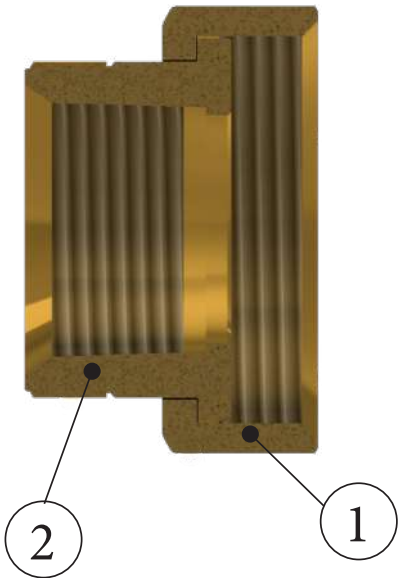


Pos.	Description	Q.ty	Material
1	O-Ring	1	EPDM
2	Nickel plated union nut	1	CW617N
3	Nickel plated union tailpiece	1	CW617N

Size	1/2" x 3/4"	3/4" x 1"	1" x 1 1/4"	1 1/4" x 1 1/2"
D (inch)	1/2" ISO228	3/4" ISO228	1" ISO228	1 1/4" ISO228
D1 (inch)	3/4" ISO228	1" ISO228	1 1/4" ISO228	1 1/2" ISO228
I1 (mm)	10	12	14	15
Ch (mm)	30	37	46	52

Union connection set

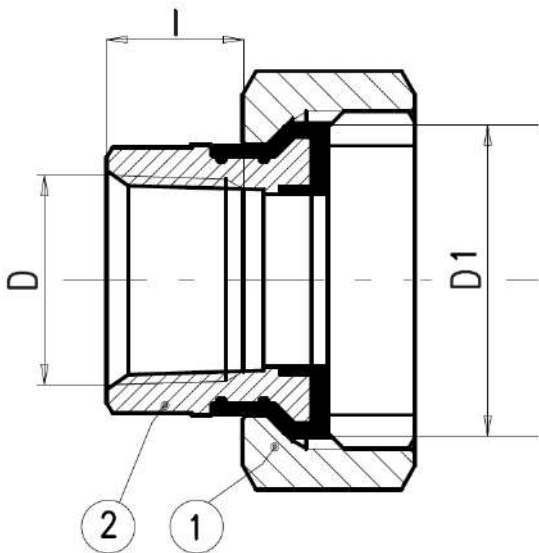
for s.80



Item	Description	Q.ty	Thread type	Material
1	Sand blasted unplated nut	1	G 1.1/2" ISO228	CW617N
2	Unplated female tailpiece	1	1" NPT ANSI B1.20.1	CW617N

Dielectric union connection set

for s.80

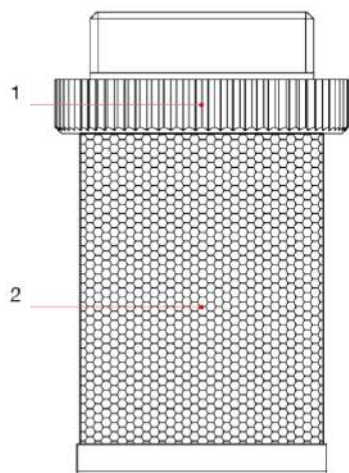
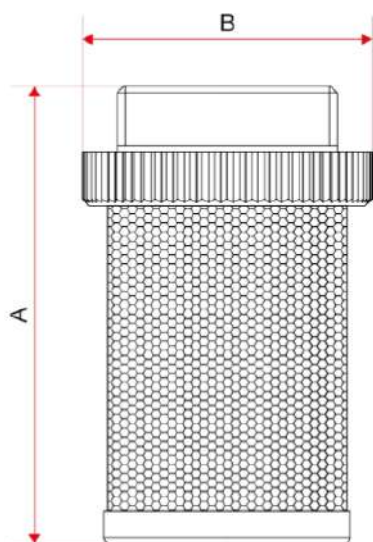


Item	Description	Q.ty	D1	D	I	Material
1	Sand blasted unplated nut	1	G 1 ¼" ISO228			CW617N
2	Unplated female dielectric tailpiece	1		3/4" NPT ANSI B1.20.1	0.67"	CW617N + PA

Filter

for check valves s.120

- Degree of filtration: from 3/8" to 2": 1200µm; from 2 1/2" to 4": 2000µm.
- Threaded connection: ISO 228.



	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	42	47	58	70	76	83	99,5	123	138	152,5
B	25,7	30	35,9	43,9	50,9	56,9	68,9	86	102	129

Item	Description	Q.ty	Material
1	Hose	1	Polymer
2	Grid	1	AISI 304

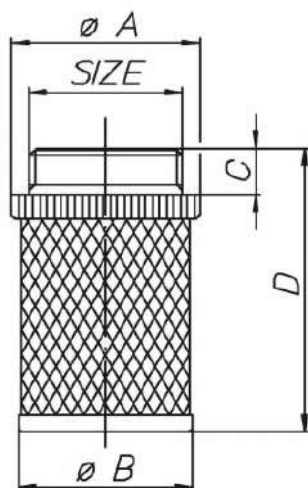
Item No.	For ball valve s.190 size
PFILAC	3/8"
PFILAD	1/2"
PFILAE	3/4"
PFILAF	1"
PFILAG	1 1/4"
PFILAH	1 1/2"
PFILAI	2"
PFILAL	2 1/2"
PFILAM	3"
PFILAN	4"



Filter

for check valves s.123

- Threaded connection: ISO 228.



Code	PF13AC	PF13AD	PF13AE	PF13AF	PF13AG	PF13AH	PF13AI	PF13AL	PF13AM	PF13AN
Size (inch)	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Ø A mm	21	26	32	40	49	55	68	85	99	121
Ø B mm	19	23	29	37	44	50	61	80	93	116
C mm	7	8	9	10	11	11	12	13	14	14
D mm	46,5	50	57	62	68	78	90	97	110	128
Material (s)	1	Polymer								
	2	AISI304								

Filter (500 µm mesh)

for s.190



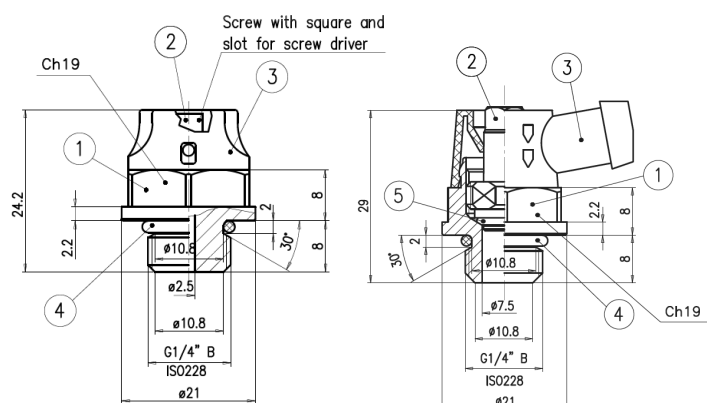
Code	PF190D	PF190E	PF190F	PF190G	PF190H	PF190I
Size (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Ø A mm	12,9	16,8	20,8	29,5	37,5	47,5
Ø B mm	15,3	20,2	24	32,5	39,5	51
C mm	33,5	39,5	46	62	73	89
Material (s)	Nylon + AISI 304					

Drains and caps

for s.81

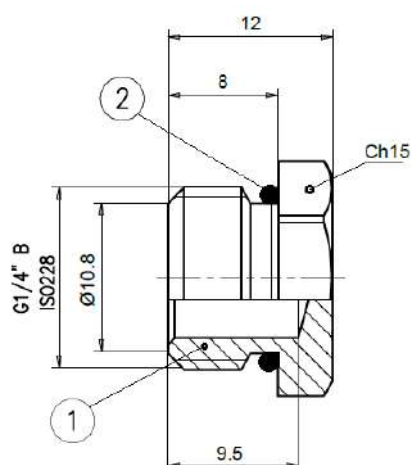


Item No.	Description
PSPR811	Side drain valve G 1/4", compact version screwdriver operated
PSPR81	Side drain valve G 1/4" with hose connection
PTNR81	Side cap G 1/4"



PSPR81 - Side drain valve G 1/4" with hose connection
PSPR811 - Side drain valve G 1/4", compact version screwdriver operated

Pos.	Description	Q.ty	Material
1	Nickel plated body	1	CW614N
2	Nickel plated screw	1	CW612N
3	Rotating plastic head	1	Nylon-6
4	O-Ring	1	EPDM
5	O-Ring for PSR81 only	1	EPDM



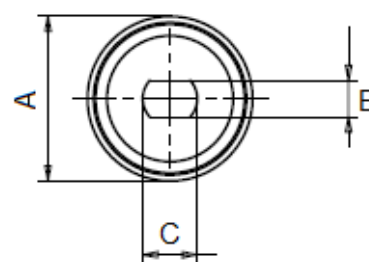
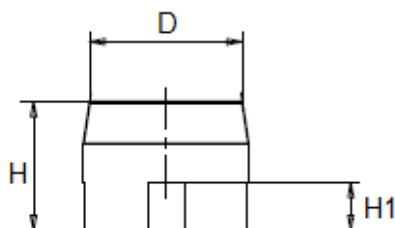
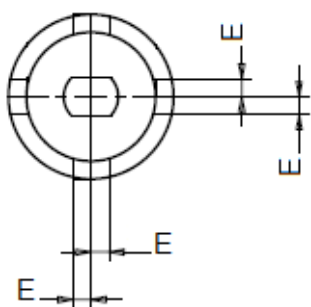
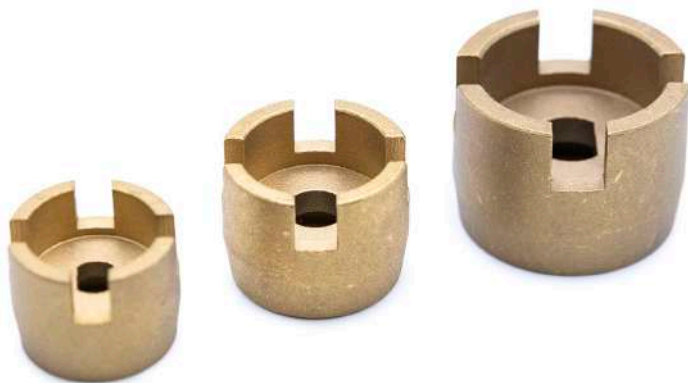
PTNR81 - Side cap G 1/4"

Pos.	Description	Q.ty	Material
1	Nickel plated cap	1	CW617N
2	O-Ring	1	EPDM



Top lever caps

for RuB ball valves



Code	SCOG03	SCOG06	SCOG09
Full port	1/4" - 1/2"	3/4" - 1"	1 1/4" - 2"
Standard port	1/4" - 3/4"	1" - 1 1/4"	1 1/2" - 2 1/2"
ØA (mm)	24	27,5	36,5
B (mm)	5,1	6,1	8
C (mm)	7,1	9,1	12,1
H (mm)	18,5	21,5	27
H1 (mm)	7	8	10
ØD (mm)	18,5	25,4	28,5
E (mm)	2,5	3	4
Material (s)	CW617N		



Limit Switch box



FEATURES AND SPECIFICATIONS:

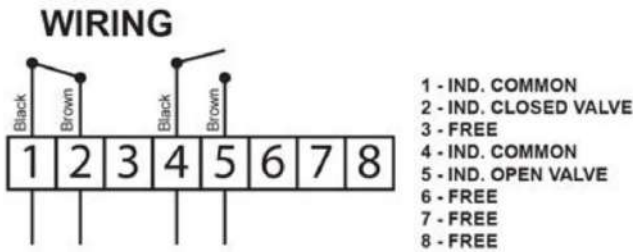
- Enclosure: waterproof IP67, O-ring sealed
- Material: aluminum, polyester coated
- Ambient temperature: -20°C ~ +80°C
- Switch cams: adjustable, preset for 90°
- Cable entries: 2xM20x1.5
- Terminal block: 8 pos of terminal strips (6 for switches, 2 for solenoid valve power)
- Position indicator: dome type 0°C ~ 90°C
- Mounting bracket: stainless steel acc. to VDI/VDE3845, NAMUR
- Mechanical switches: 2 pcs. max 250V AC 16A, 125 V DC 0.6A

LIMIT SWITCH BOX XCESLSE - 5466

Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability of the BONOMI INDUSTRIES products with your specific field of use.

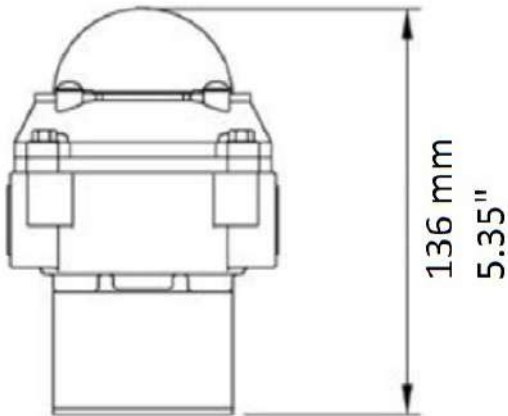
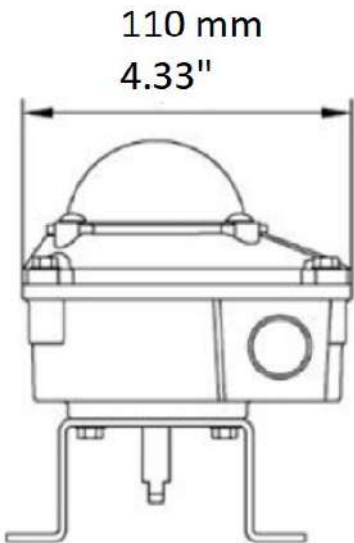
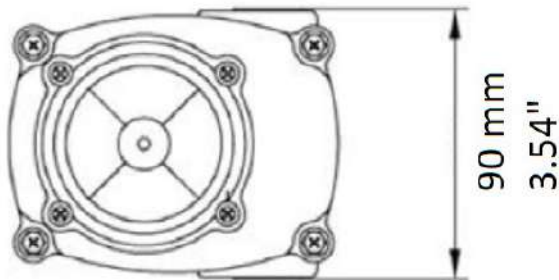


ACCESSORIES



DIMENSIONS :

Dimensions are in mm/inch



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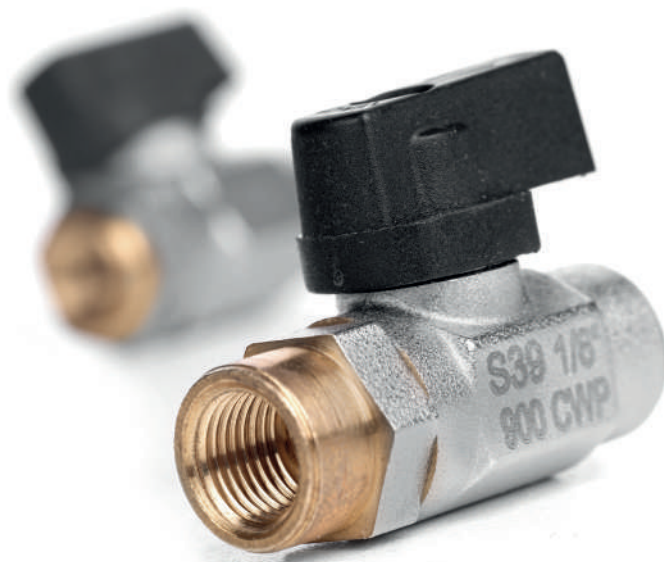
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NOTES



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