

PLUMBING CATALOG



**Started in 1954 by a young Silvio Bonomi, Bonomi Industries Srl
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 Srl 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 Srl 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 Srl 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 Srl 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 Srl, 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 Srl 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 Srl, 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 Srl the trusted partner in fluid control solutions.



Bonomi Industries srl

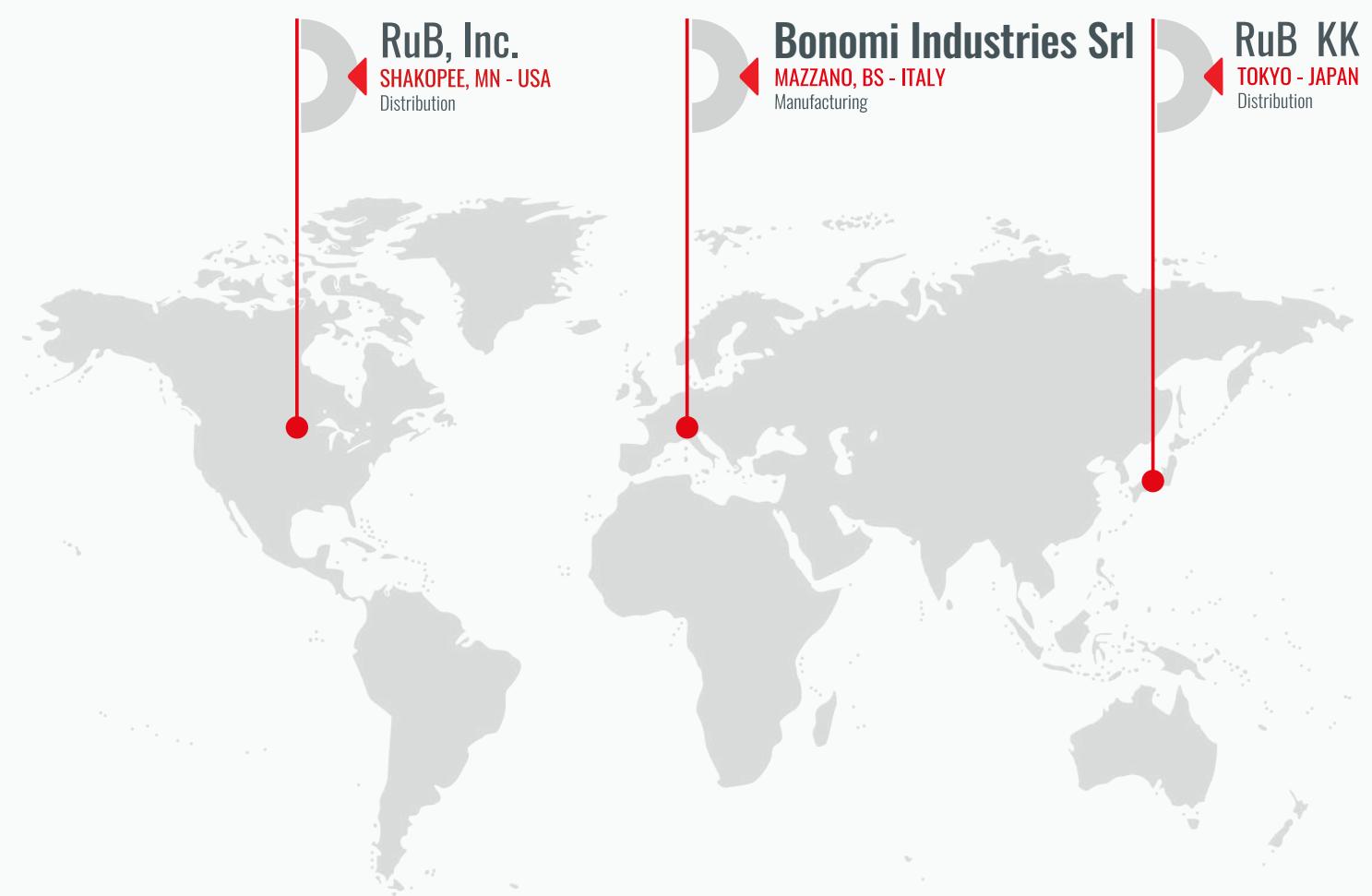
MAZZANO, BS - ITALY
Manufacturing



RuB, Inc.
SHAKOPEE, MN - USA
Distribution



RuB KK
TOKYO - JAPAN
Distribution



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 Srl 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

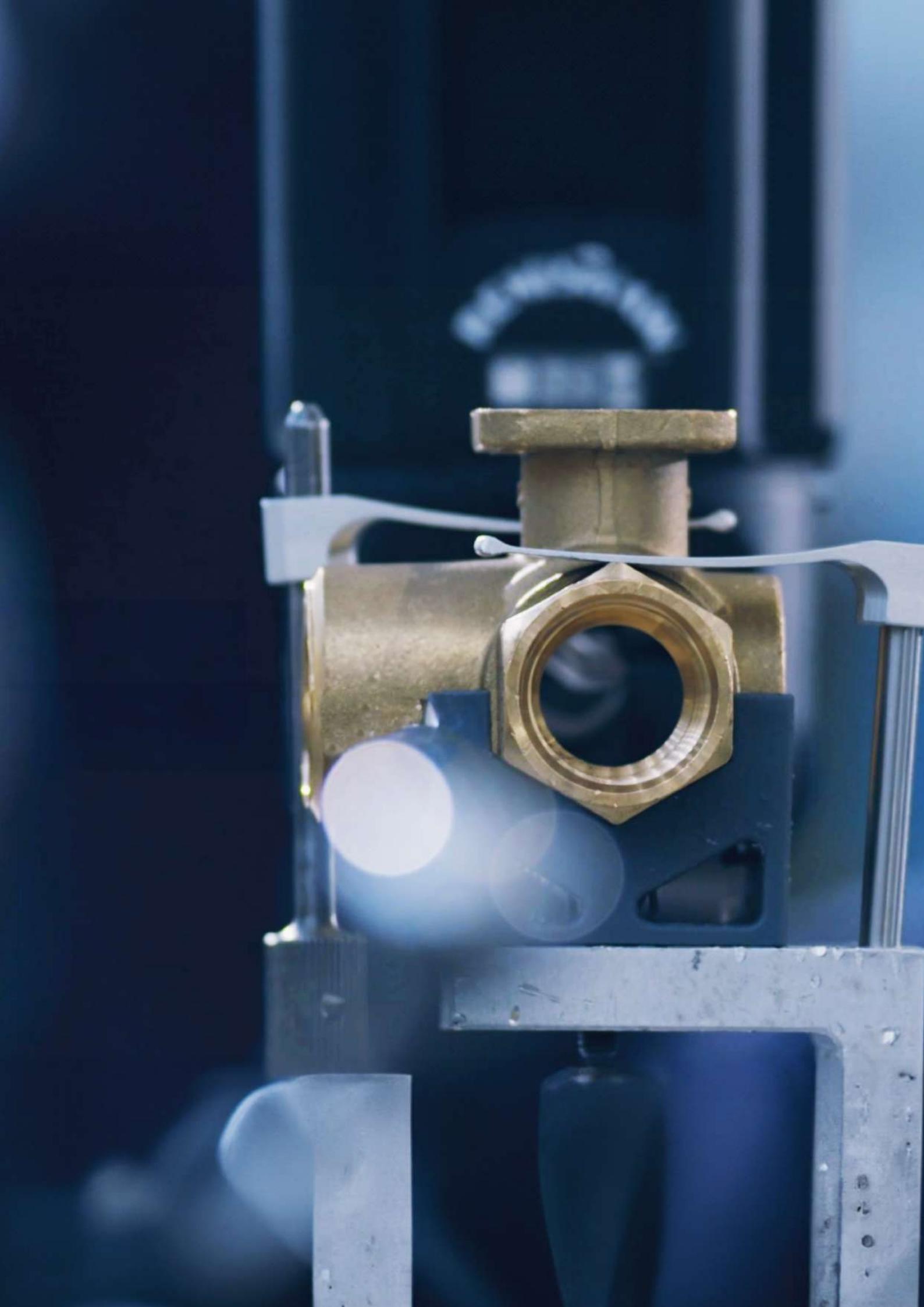


In compliance with the **PED Directive** since 2002



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.

The diligence with which we strive to make our process and products less impactful on the environment is confirmed by the certifications awarded by international bodies, in particular ISO 14001:2018 and the "silver" medal in the EcoVadis sustainability assessment.

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

Every year, OEMs all over the world rely on RuB custom solutions to reduce leaks, equipment breakages and production downtime. We're heavily invested in OEM customizations with custom-made machinery for innovative products and solutions.

We have proven expertise in solving technical and operational challenges for leading boilers, heat pumps and burners manufacturers, LPG gas tank and system manufacturers, manufacturers of watering systems, fire protection, refrigeration, HVAC manufacturers, marine applications with shipbuilders, compressors, tanks, machine tools manufacturers, filtration, chemical, food processing and pharmaceutical companies.

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

PRIVATE LABEL

We strive to meet the needs of our customers in every way possible. And we do so not only through specifically designed, engineered and manufactured OEM products, but also by customizing standard RuB ball valves.

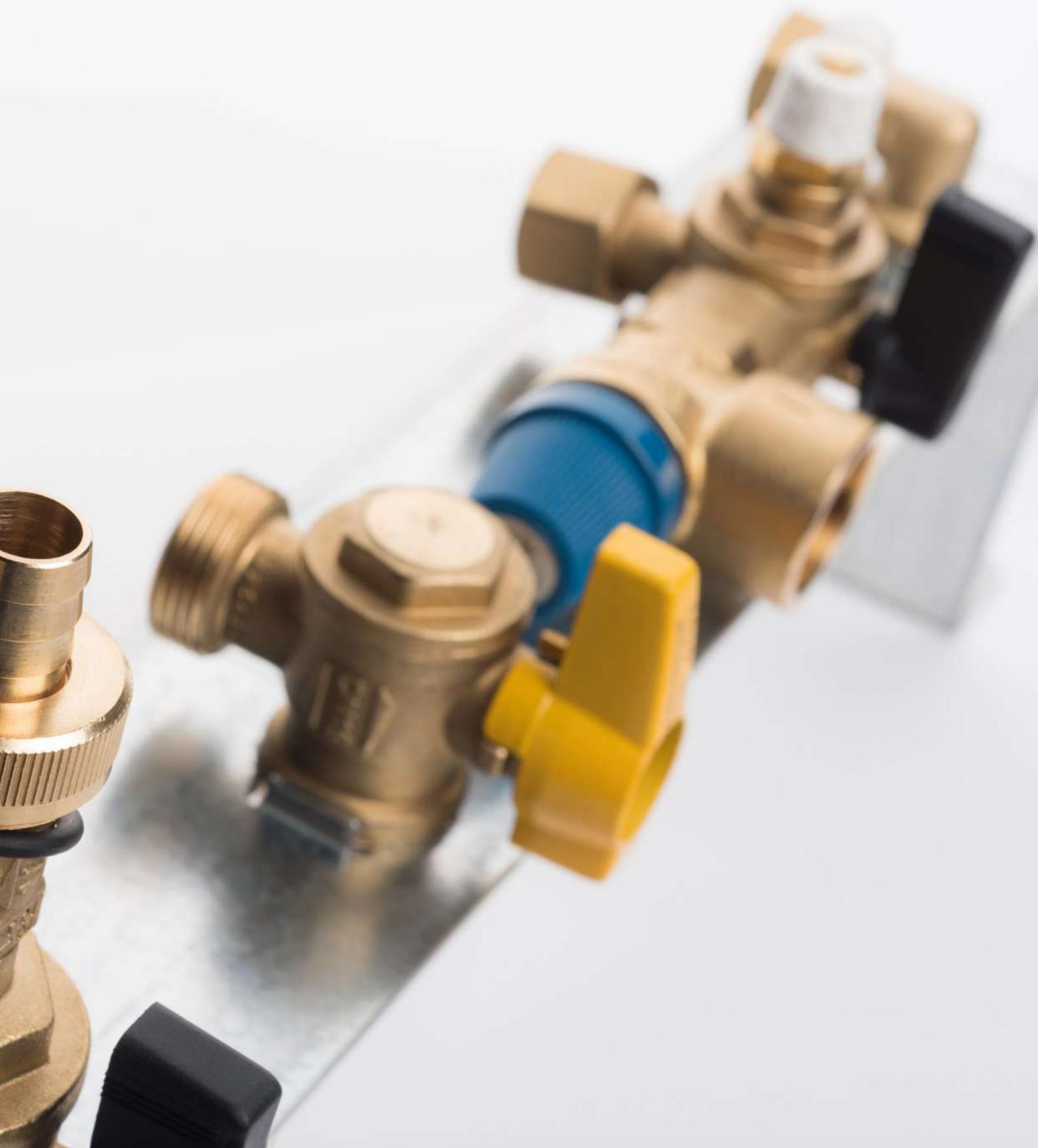
The possible branding options to choose from include:

- Changing the lever marking to the customer's trademark
- Packing with a custom label
- Customized handle colors and materials
- Customized valve fittings
- Dedicated valve body stamping
- Special marking on the valve body
- Custom installation instructions



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	
	Deutsche Vereinigung des Gas und Wasserfaches	
	Deutsche Vereinigung des Gas und Wasserfaches Hygiene	
	Schweizerischer Verein des Gas und Wasserfaches	
	Attestation de Conformité Sanitaire	
	ARGB-KVBG	
	Water Regulations Advisory Scheme	
	British Standards Institution	
	Kiwa KUKreg4	
	Ri.se. / Boverket	
	Kiwa - Swedcert	

	General Directorate of Civil Defence	
	The Australian Gas Association	
	OSHA Compliant	
	Factory Mutual Research Corporation	
	Underwriter Laboratories Inc.	
	CRN-TSSA	
	CSA International for Drinking Water to NSF/ANSI 61- NSF/ANSI 372	
	CSA - Canadian Standards Association	
	KSFD -Kuwait Fire Service Directorate	
	LIA - L.P Gas Instruments Inspections Association	

COMPLIANCES

	ROHS	
	Reach declaration	

	PED 2014/68/UE by ICM (0425)	
	Декларация соответствия	

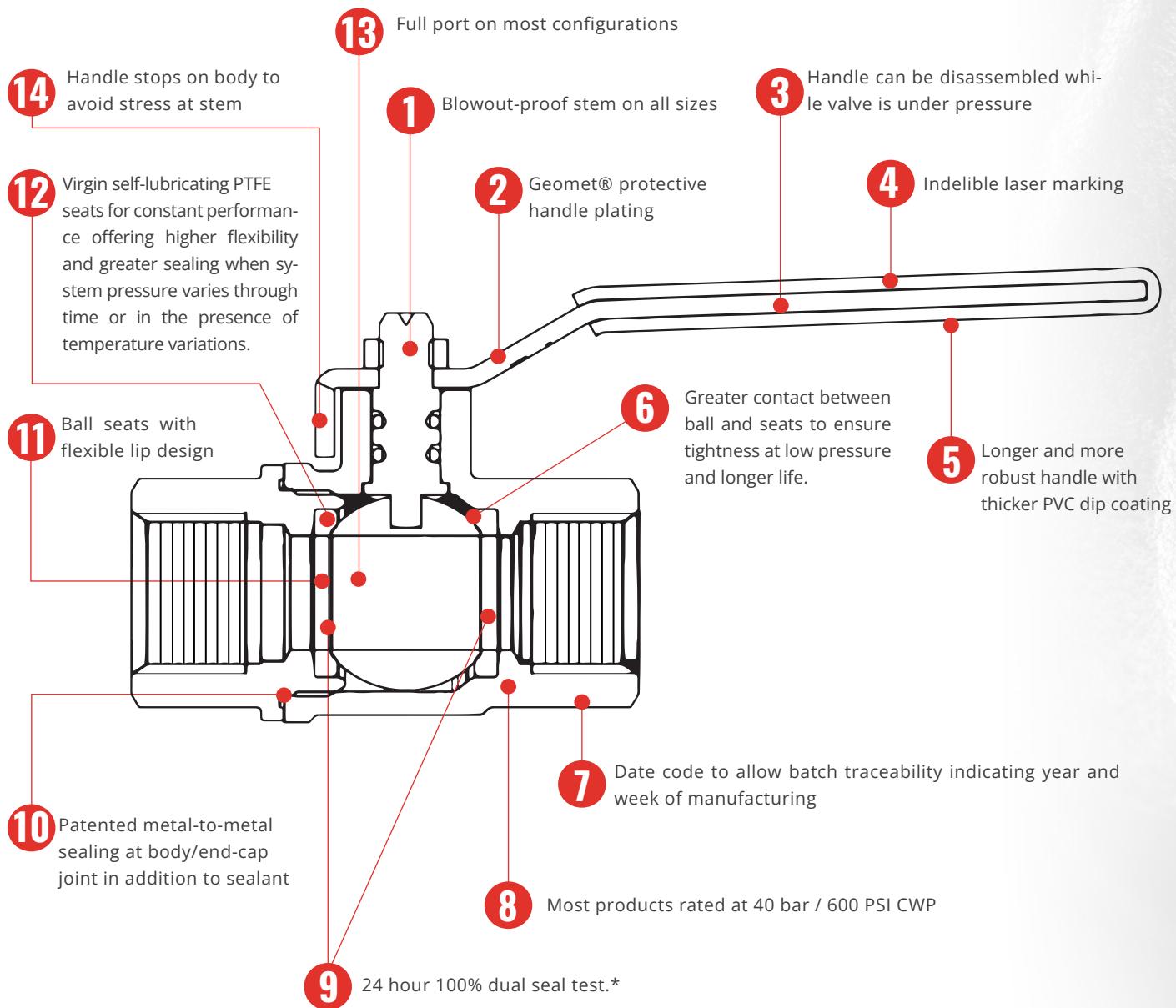


We developed and constantly innovate strict protocols and processes
Discover all the certifications and awards received from international bodies

↑ OPEN
↓ SHUT

PATENTED
NO.1421306

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 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



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



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s.42

**Female/Female
1/2" - 3"
solder-ends ball valve**

***150 WSP STEAM RATED**



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
- *For sales within EU: CE marking needed, please contact us

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
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- RoHS Compliant (EU)
- CRN-TSSA acc. to MSS SP110 (Canada)
- Meeting WW-V-35C Federal U.S. Specification (United States)

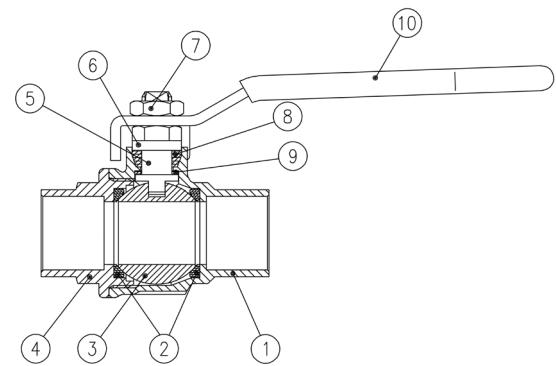
NOTE: approvals apply to specific configurations/sizes only.



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 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

For sales within EU: CE marking needed,
please contact us

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

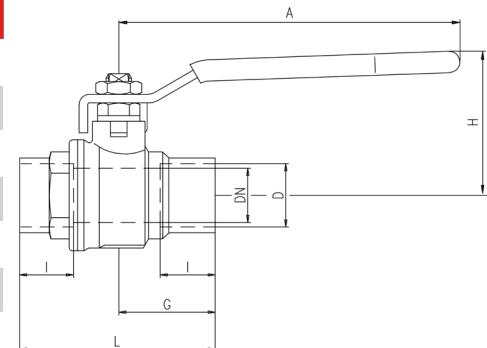


TABLE 1 PRESSURE - TEMPERATURE RATINGS

Joining material	Melting range degrees		Working temperature degrees		Maximum working gauge pressure					
					°F	°C	°F	°C	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

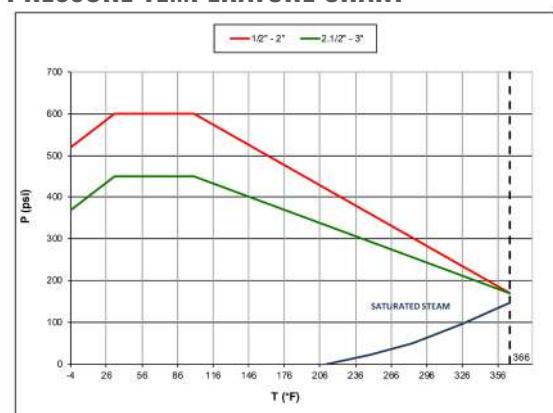
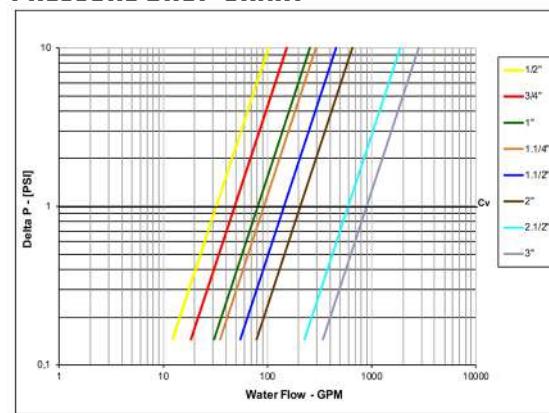


Chart applies to valve, not to solder joints

BONOMI INDUSTRIES SRL - www.rubvalves.com

PRESSURE DROP CHART





s.50

Female/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
- 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 O-rings at the stem for maximum safety (EPDM + FPM for sizes 1/4" and 3/8", 2xFPM for sizes 1/2" through 2")

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.

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

- 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)

NOTE: approvals apply to specific configurations/sizes only.



s.50 XCES50 - 6012

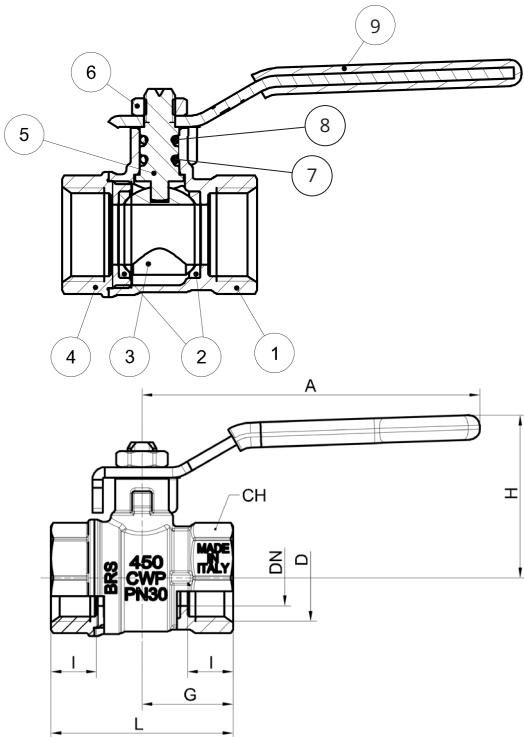
Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability 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 (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	1	EPDM for sizes 1/4" and 3/8" FPM for sizes 1/2" through 2"
8	O-Ring	1	FPM
9	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



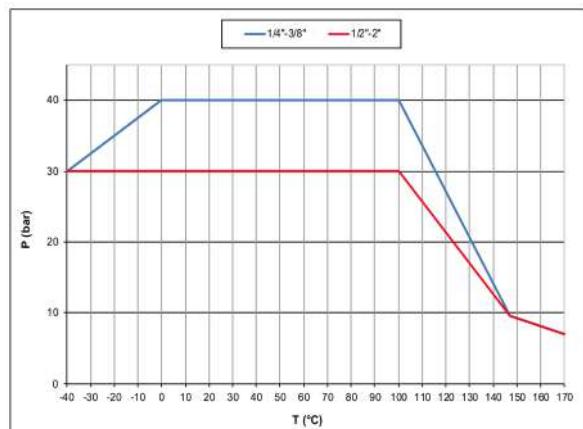
Compliant to CE 2014/68/UE product
Equipment category I Module A

Code	S50B0099	S50C0099	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

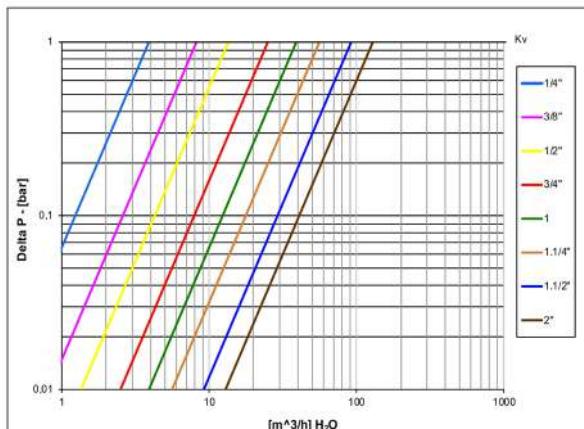
DN shows actual flow diameter. Configuration of valves 1/4" and 3/8" sizes is slightly different.

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
1/4" - 2"
ISO 228



QUALITY

- 24h 100% seal test guaranteed
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- No metal-to-metal moving parts
- No maintenance ever required
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- Maintenance-free, double FPM O-rings at the stem for maximum safety (EPDM + FPM for sizes 1/4" and 3/8", 2xFPM for sizes 1/2" through 2")

SEALING

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

THREADS

- ISO 228 parallel male by female threads

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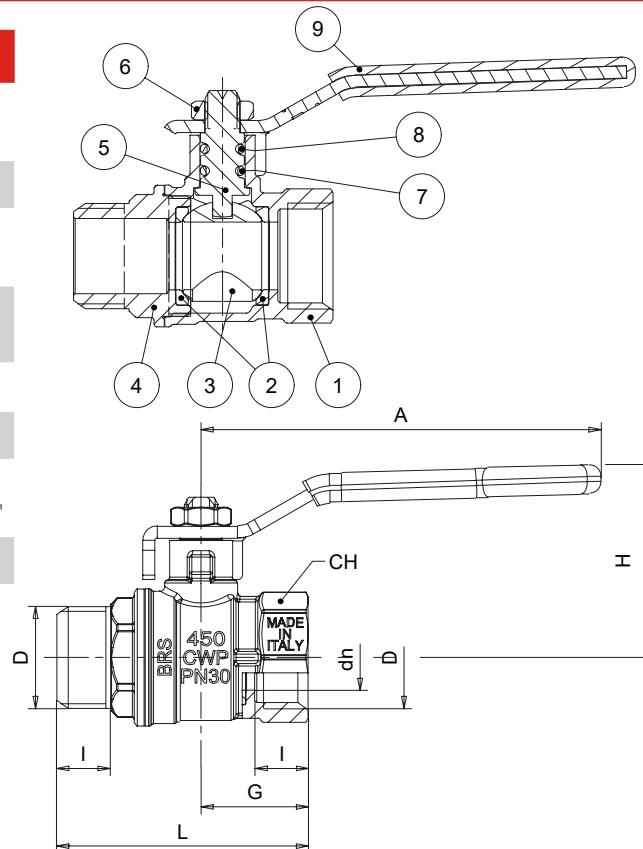
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Part description		Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball with rinse hole (read rinse hole on sizes from 1/2" up to 2")	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	1	EPDM for sizes 1/4" and 3/8" FPM for sizes 1/2" through 2"
8	O-Ring	1	FPM
9	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/4"-2" hollow ball

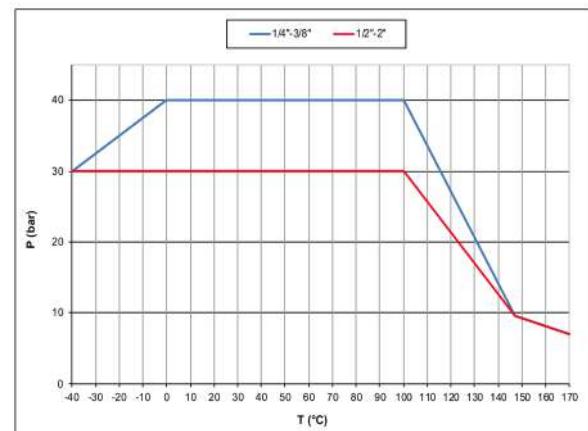


Compliant to CE 2014/68/UE product
Equipment category I Module A

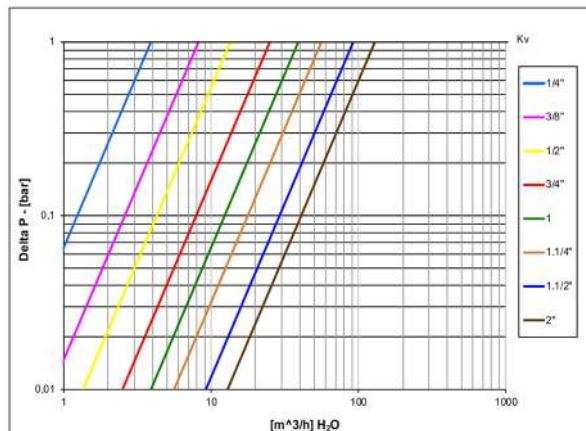
Code	S50B2099	S50C2099	S50D20	S50E20	S50F20	S50G20	S50H20	S50I20
Size (inch)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	8	10	13.5	18	22	28.5	36	45
I (mm)	9	9	11	12	14	15	17	19
L (mm)	49	49	51.5	60.5	70	82	95	111.5
G (mm)	19.5	195	22	26	30.7	36.5	43	50.5
A (mm)	82	82	82	100	120	120	158	158
H (mm)	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. 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

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

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)

NOTE: approvals apply to specific configurations/sizes only.



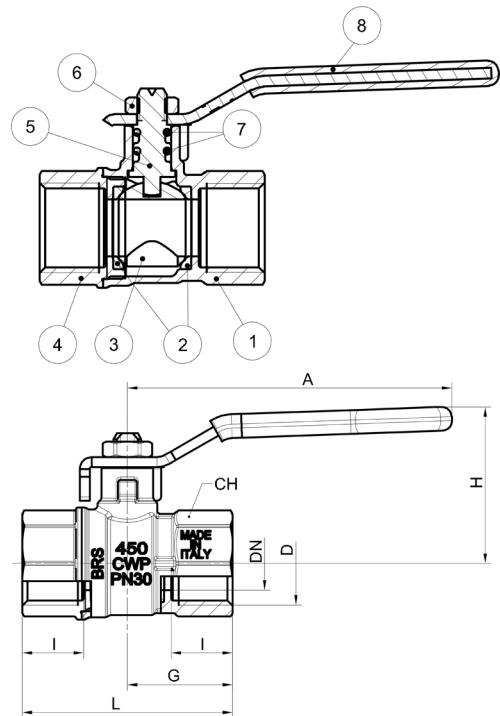
s.51 XCES51 - 6012

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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 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



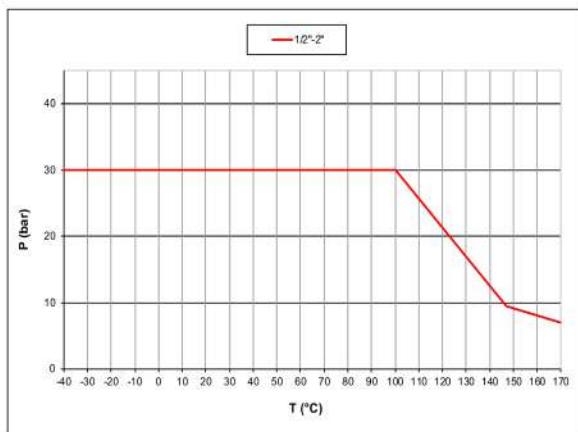
Compliant to CE 2014/68/UE product
Equipment category I Module A

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

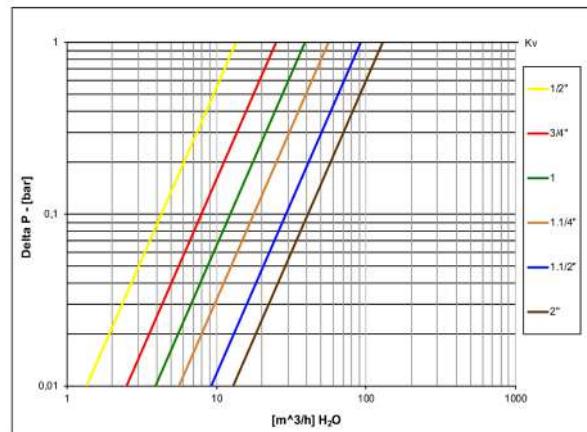
DN shows the nominal flow diameter.

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

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

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)

NOTE: approvals apply to specific configurations/sizes only.



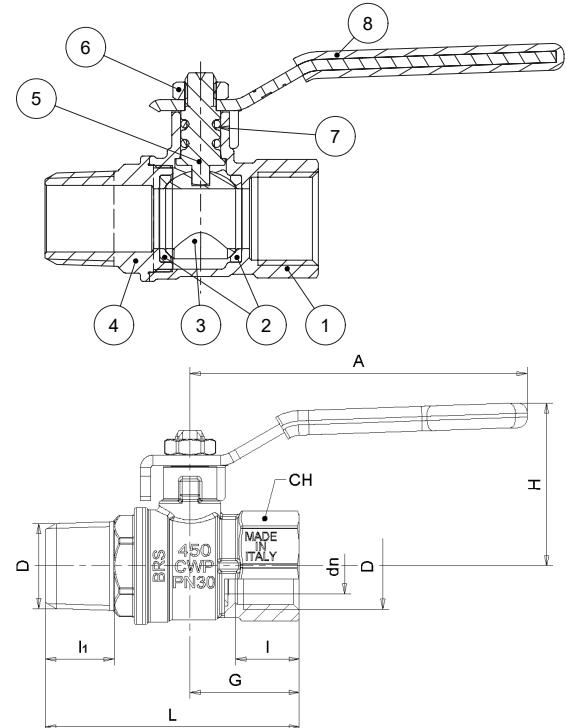
s.51 MF XCES51M - 6012

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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 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



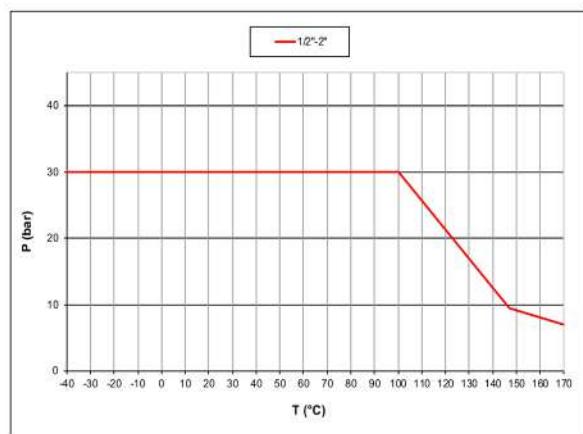
Compliant to CE 2014/68/UE product
Equipment category I Module A

Code	S51D20	S51E20	S51F20	S51G20	S51H20	S51I20
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
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

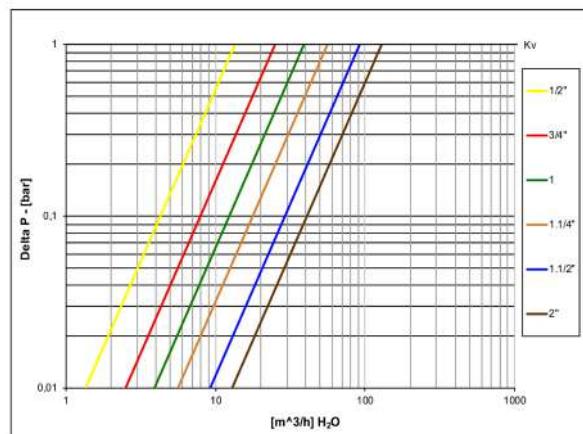
DN shows the nominal flow diameter.

Ball valves are marked CE on handle from 1 1/4" 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

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

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

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

NOTE: approvals apply to specific configurations/sizes only.

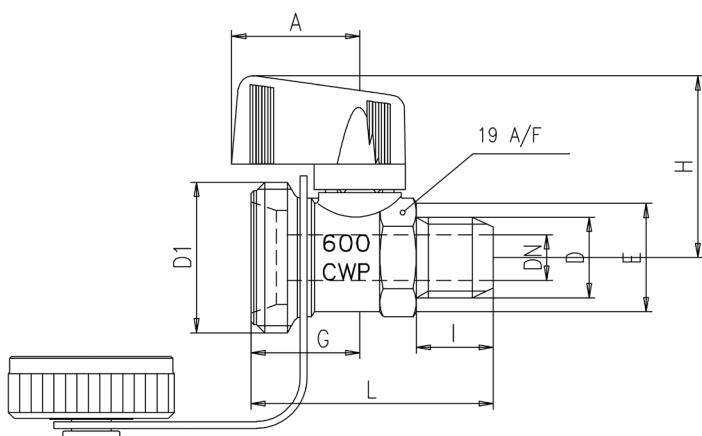
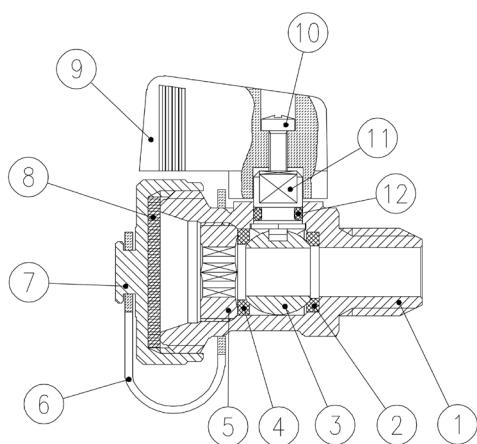


s.55 KFE XCES55KFE - 5813

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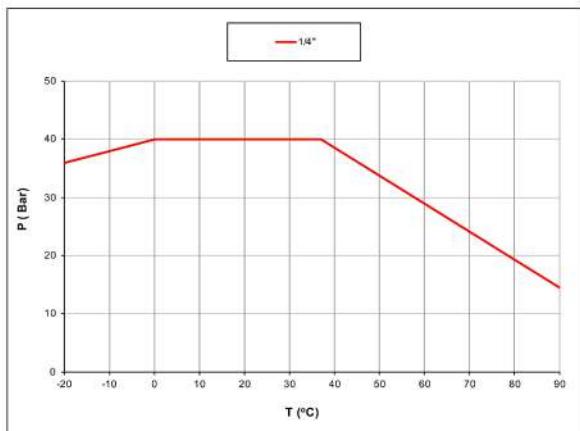


Part description		Q.ty	Material	Code	S55B00
1	Unplated body	1	CW617N	D (inch)	1/4"
2	Body seat	1	PTFE	D1 (mm)	3/4"
3	Chrome plated ball	1	CW617N	DN (mm)	8
4	Retainer seat	1	PTFE	E (mm)	19
5	Unplated retainer nut	1	CW617N	I (mm)	10
6	Black strap	1	Plastic	G (mm)	19.1
7	Unplated cap	1	CW617N	L (mm)	39
8	Seal cap	1	EPDM	A (mm)	22.5
9	Black handle	1	Nylon glass filled 30%	H (mm)	32
10	Zinc plated screw	1	CB4FF (EN10263-2)	Kv (m ³ /h)	5.8
11	Unplated stem	1	CW617N		
12	O-Ring	1	EPDM		

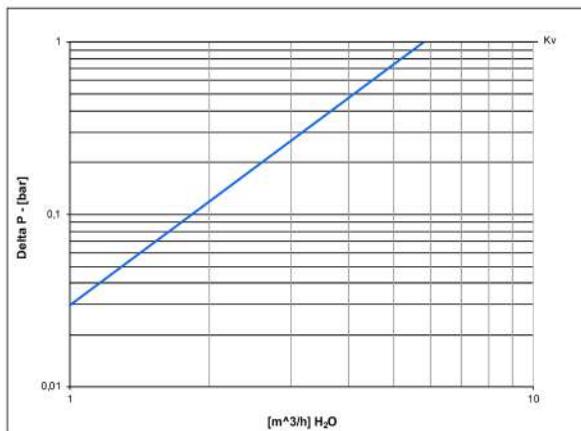


DN shows the nominal flow diameter.

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

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

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

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

NOTE: approvals apply to specific configurations/ sizes only.

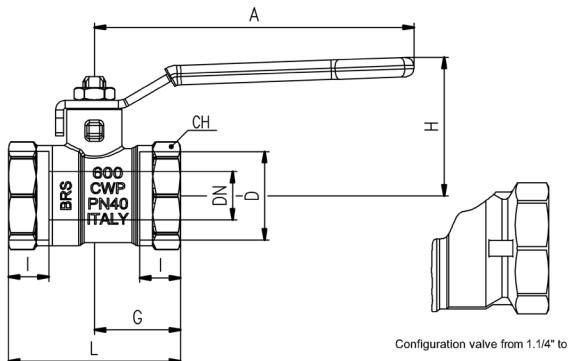
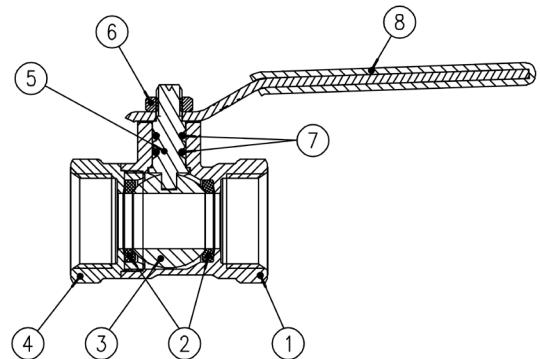


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Part description		Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside up to 2")	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external nickel plated, unplated inside up to 2")	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-Ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/2"-2 1/2" hollow ball



Configuration valve from 1.1/4" to 3"

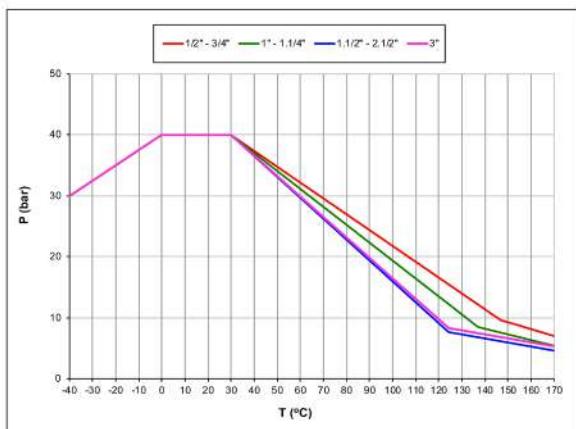
Compliant to CE 2014/68/UE product Equipment category I Module A

Code	S63D00	S63E00	S63F00	S63G00	S63H00	S63I00	S63L00	S63M00
D (Size)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	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

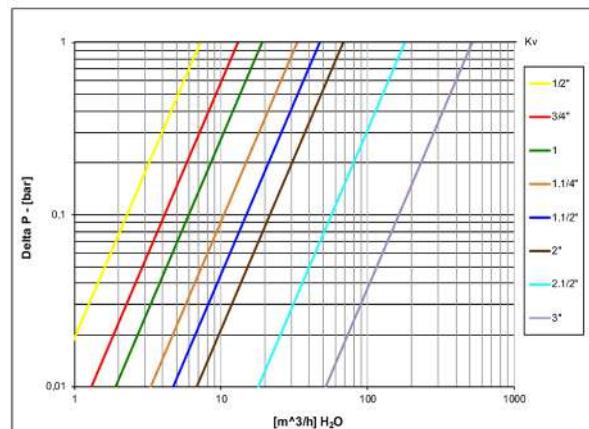
DN shows the nominal flow diameter. Stem configuration of valves over 2 1/2" is slightly different.

Ball valves are marked CE on handle from 1 1/2" to 2 1/2", on body over 2 1/2" 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

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

HANDLE

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection

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
- * For sales within EU: CE marking needed, please contact us

APPROVED BY OR IN COMPLIANCE WITH

- Canadian standards Association (United States, Canada)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.



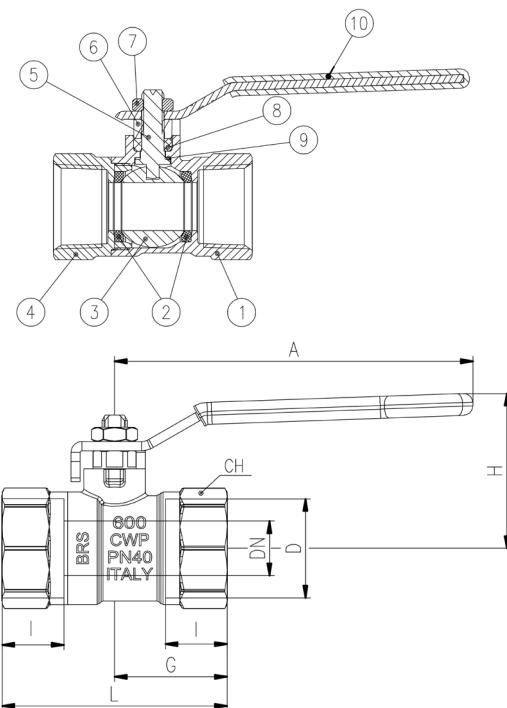
s.71 XCES71 - 6012

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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 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 1/2"-2 1/2" hollow ball



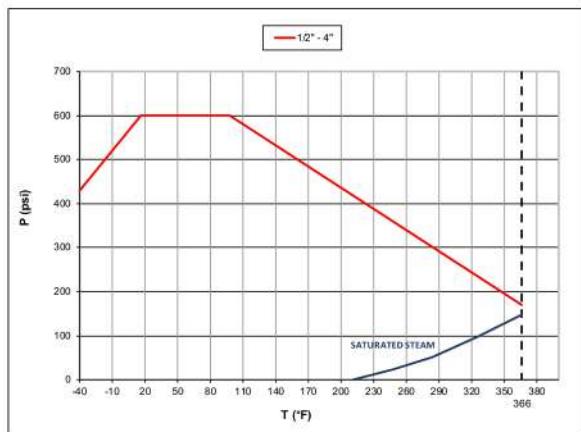
For sales within EU: CE marking needed, please contact us

Code	S71D41	S71E41	S71F41	S71G41	S71H41	S71I41	S71L41	S71M41	S71N41
Size (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	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

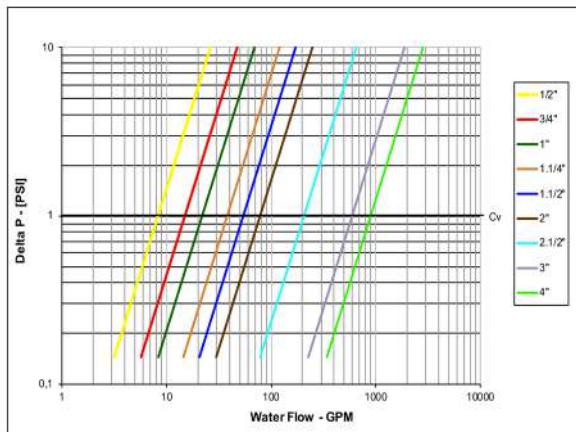
DN shows the nominal flow diameter.

Stem configuration of valves over 2 1/2" is slightly different.

PRESSURE-TEMPERATURE CHART



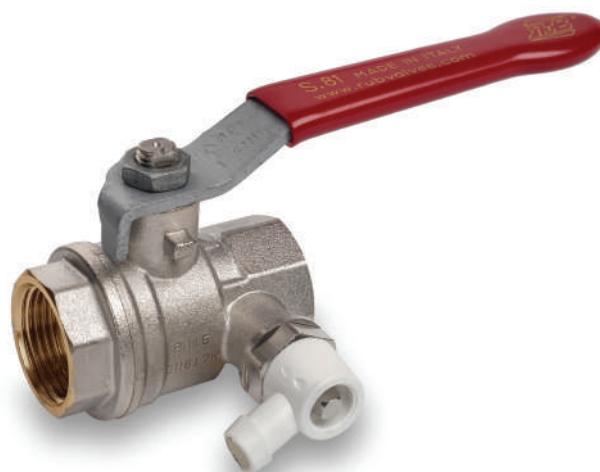
PRESSURE DROP CHART





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

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

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

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

NOTE: approvals apply to specific configurations/sizes only.



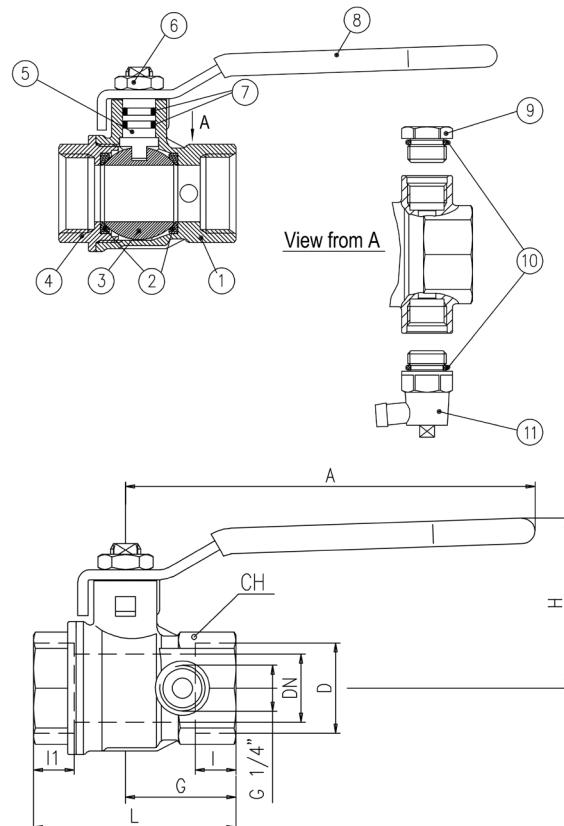
s.81 XCES81 - 5813

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 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	-

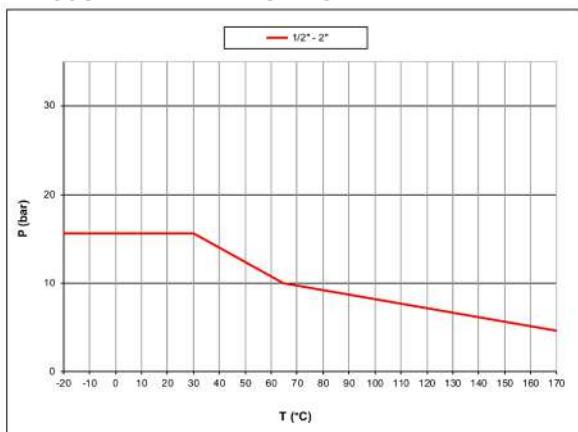
1 1/4"-2" hollow ball



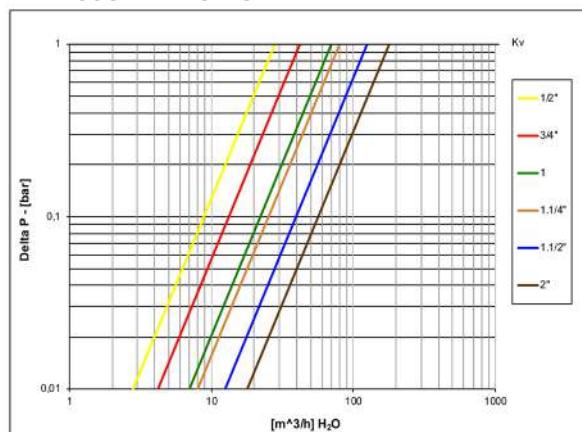
Code	S81D00	S81E00	S81F00	S81G00	S81H00	S81I00
D (mm)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	15	20	25	32	40	50
I1 (mm)	11	12	21	23	17	26,5
I (mm)	11	12	14	15	17	19
L (mm)	56	59,5	79,5	90,5	95,5	118,5
G (mm)	31	32,5	39	44	50,5	58
A (mm)	100	120	120	158	158	158
H (mm)	43	50	54	73	79	86
CH (mm)	25	31	40	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

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

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

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

NOTE: approvals apply to specific configurations/sizes only



s.88 BSPT XCES8850 - 6012

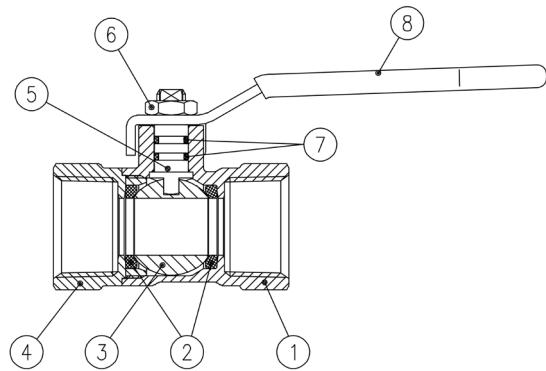
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Part description		Q.ty	Material
1	Unplated body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated end-cup	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-ring	2	FPM
8	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/2"-2" hollow ball

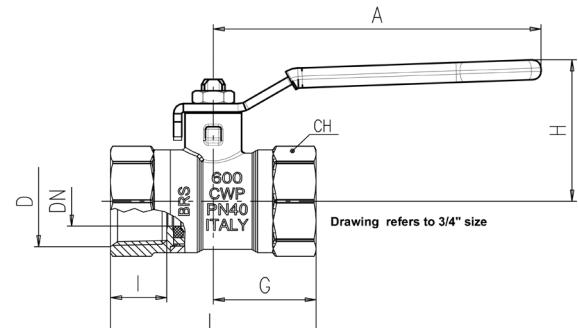
Compliant to CE
2014/68/UE product
Equipment category
I Module A



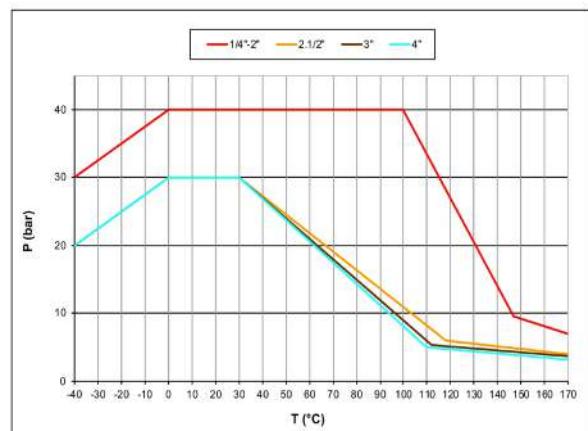
Code	S88B50	S88C50	S88D50	S88E50	S88F50	S88G50	S88H50	S88I50
D (inch)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	6	8	11.5	15	20	25	32	40
I (mm)	12	12	15.5	17	21	23	23	26.5
L (mm)	45	45	54	62	72	88	96	112
G (mm)	22.5	22.5	26.5	31	36	44	48	56
A (mm)	82	82	100	100	120	120	158	158
H (mm)	38	38	41	43	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:

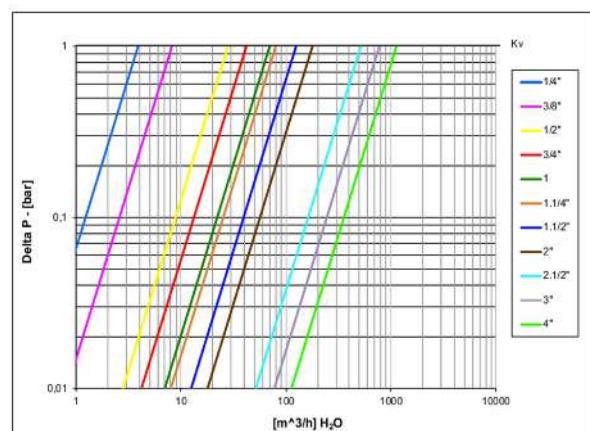
CE XXCODEXX Cat. I-A



PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.88 BSPT T-handle

1/2" - 1"
reduced port
hot forged brass ball valve



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
- 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, 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

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
- Stubby handle
- Geomet® carbon steel handle
- **RuB** memory stop designed to be installed with our stubby handle

HANDLE

- Aluminium T-handle, painted yellow
- 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
- -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

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

NOTE: approvals apply to specific configurations/sizes only



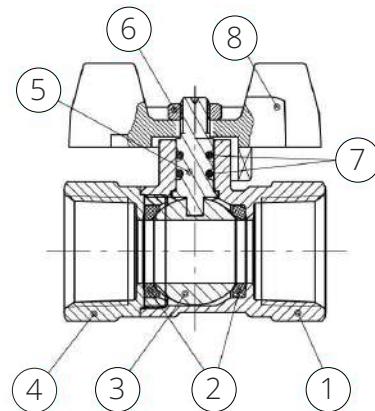
s.88 BSPT T-handle XCES8856 - 5813

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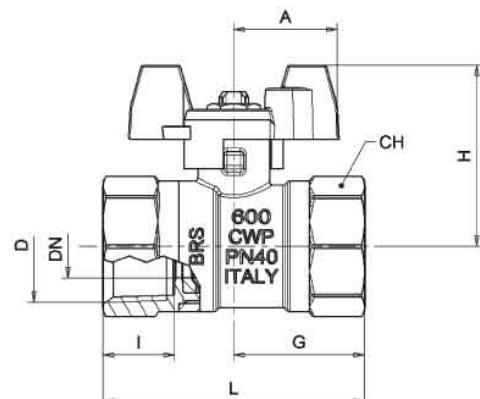


Part description		Q.ty	Material
1	Unplated body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated end-cap	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	C4C (EN10263-2)
7	O-ring	2	FPM
8	Yellow T-handle	1	EN AC-46100 (EN1676)

1 1/2"-2" hollow ball



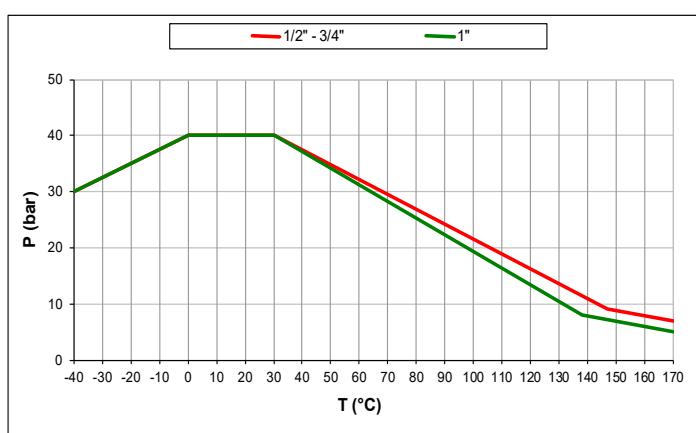
Code	S88D56	S88E56	S88F56
D (inch)	1/2"	3/4"	1"
DN (mm)	11.5	15	20
I (mm)	15.5	17	21
L (mm)	54	62	72
G (mm)	26.5	31	36
A (mm)	25	25	30
H (mm)	41	43	49
CH (mm)	25	31	38
Kv (m³/h)	7.2	13.0	19.0



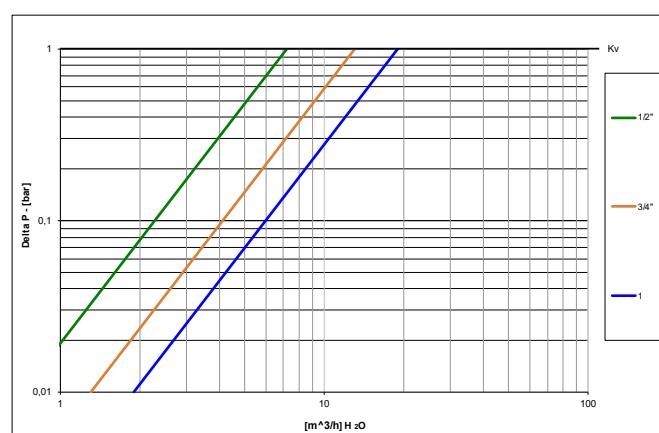
DN shows the nominal flow diameter. Ball valves are marked CE on handle from 1 1/2" to 2" as follow:

CE XXCODEXX Cat. I-A

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.90 ACS

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 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

OPTIONS

- Oval lockable handle up to 2", round over 2" **①**
- Patented locking device **②**
- Stainless steel handle (1.4016 / AISI 430) **③**
- T-handle **④**
- 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"

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) 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)*
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- RoHS Compliant (EU)
- Attestation de Conformité Sanitaire (France)*

NOTE: approvals apply to specific configurations/sizes only.

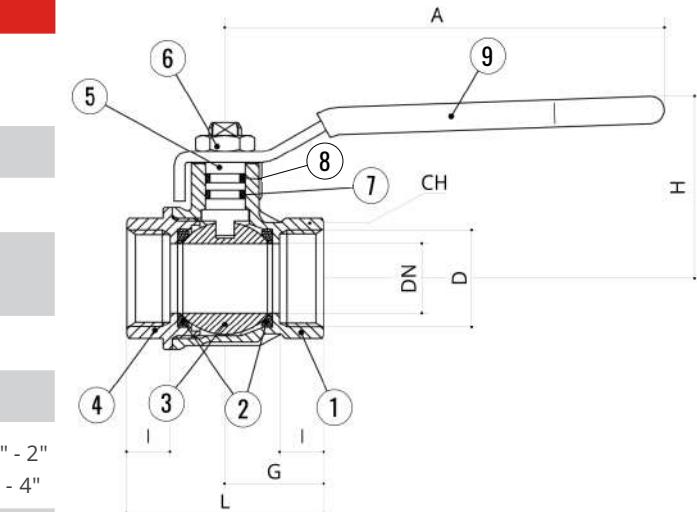
***NOTE:** for sizes 1/4" to 2"





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	1	EPDM for sizes 1/4" - 2" FPM for sizes 2 1/2" - 4"
8	O-ring	1	FPM
9	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/4"-2" hollow ball

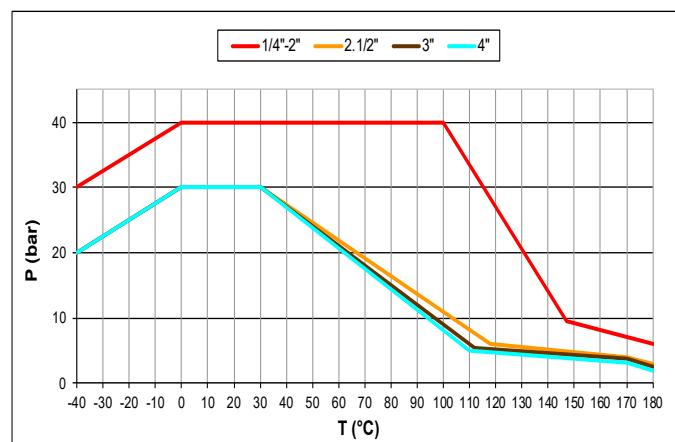


Compliant to CE 2014/68/UE product Equipment category I Module A

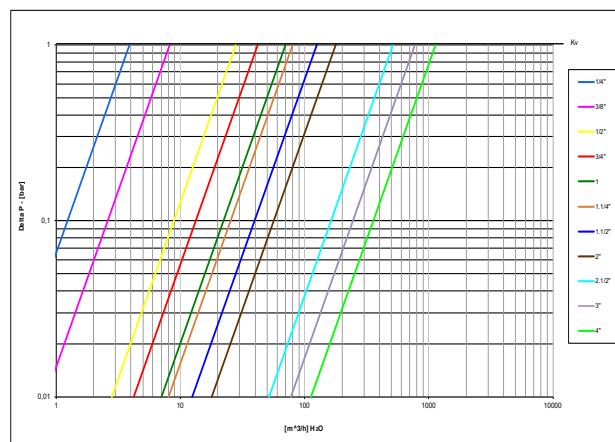
Code	S90B0099	S90C0099	S90D0099	S90E0099	S90F0099	S90G0099	S90H0099	S90I0099	S90L00	S90M00	S90N00
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (mm)	8	10	15	20	25	32	40	50	65	80	100
I (mm)	9	9	11	12	14	15	17	19	22	25	29
L (mm)	39	39	50	54	67	77	90	106	136	157	191
G (mm)	19,5	19,5	25	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 ACS 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, two O-rings at the stem (EPDM + FPM) 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 ①
- Patented locking device ②
- Stainless steel handle (1.4016 / AISI 430) ③
- T-handle ④
- Stem extension
- **RuB** memory stop is designed to be installed with our stubby handle
- Dezincification resistant brass body and components
- Stubby handle

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)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- RoHS Compliant (EU)
- Attestation de Conformité Sanitaire (France)

NOTE: approvals apply to specific configurations/sizes only.



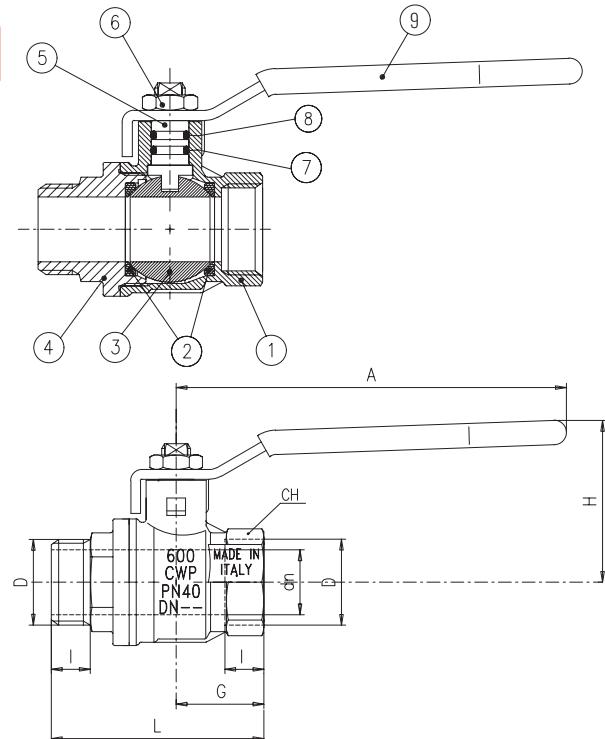
s.90 ACS MF XCES9099M - 6012

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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	1	EPDM
8	O-ring	1	FPM
9	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)

1 1/4"-2" hollow ball

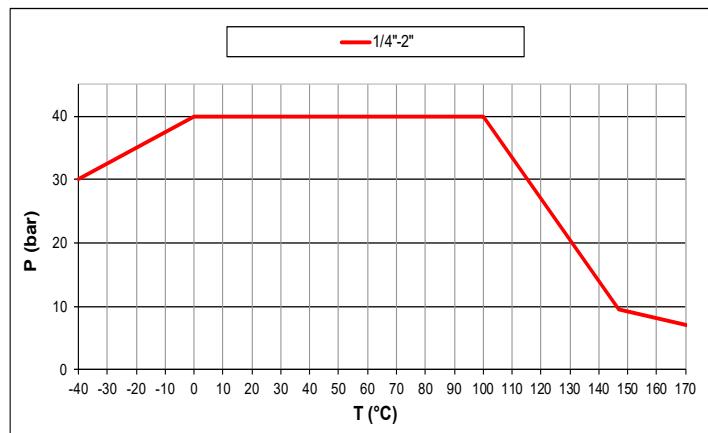


Compliant to CE 2014/68/UE product
Equipment category I Module A

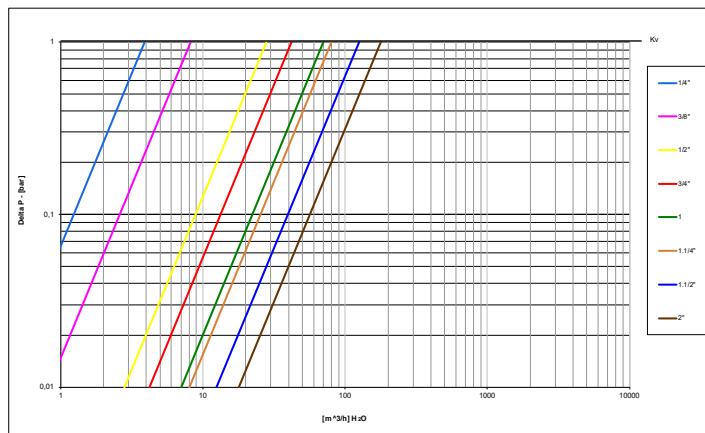
Code	S90B2099	S90C2099	S90D2099	S90E2099	S90F2099	S90G2099	S90H2099	S90I2099
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	9	9	11	12	14	15	17	19
L (mm)	49	49	60	65.5	77.5	89	100	117
G (mm)	19,5	19,5	25	27	33,5	38,5	45	53
A (mm)	82	82	100	120	120	158	158	158
H (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 ACS 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, two O-rings at the stem (EPDM + FPM) 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

OPTIONS

- Oval lockable handle ①
- Patented locking device ②
- Stainless steel handle (1.4016 / AISI 430) ③
- T-handle ④
- Stem extension
- **RuB** memory stop is designed to be installed with our stubby handle
- Dezincification resistant brass body and components
- 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

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)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- RoHS Compliant (EU)
- Attestation de Conformité Sanitaire (France)

NOTE: approvals apply to specific configurations/sizes only.

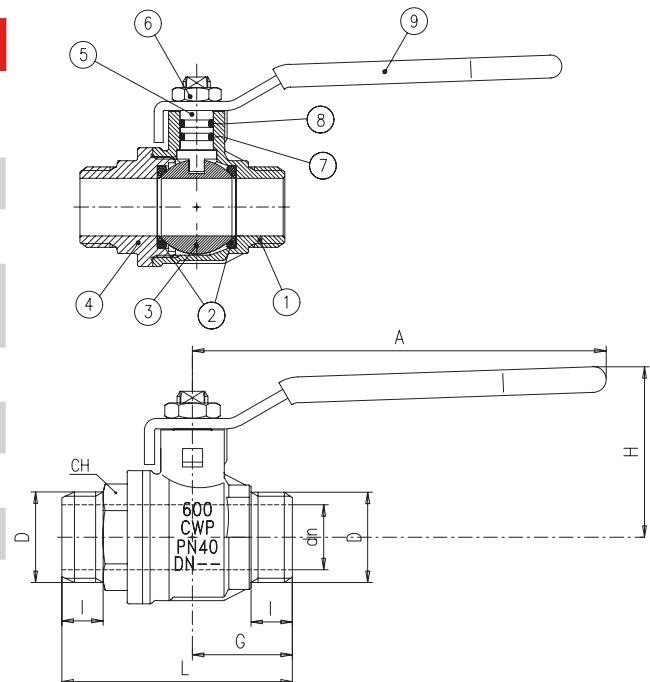


s.90 ACS MM XCES9099MM - 6012

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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	1	EPDM
8	O-ring	1	FPM
9	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)



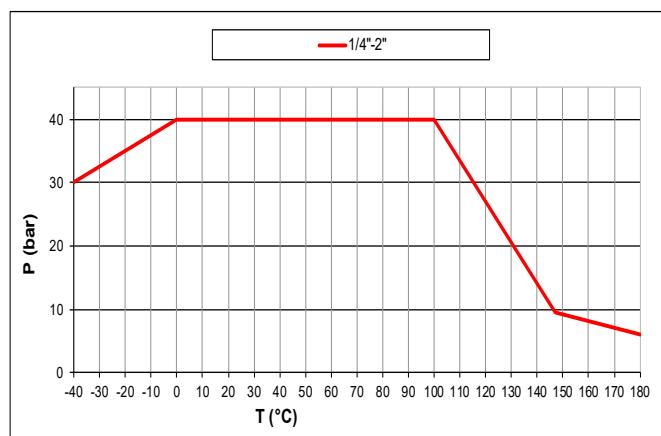
1 1/4"-2" hollow ball

Compliant to CE 2014/68/UE product
Equipment category I Module A

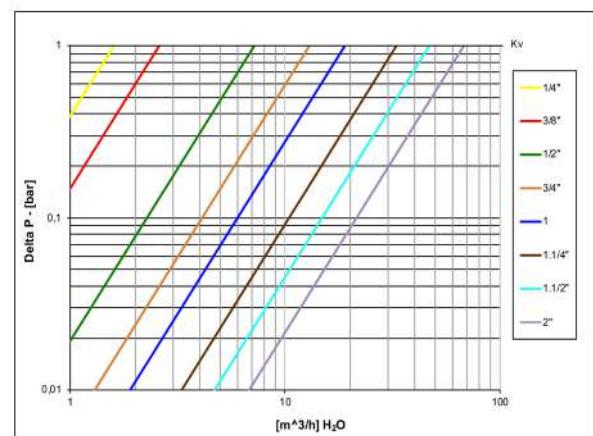
Code	S90B2299	S90C2299	S90D2299	S90E2299	S90F2299	S90G2299	S90H2299	S90I2299
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	9	9	11	12	14	15	17	19
L (mm)	50.5	50.5	62	67	80	91.5	103	120
G (mm)	21	21	27	29	36	41	48	56
A (mm)	82	82	100	120	120	158	158	158
H (mm)	38	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

UPON REQUEST

- *For sales within EU: CE marking needed, please contact us

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

- 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

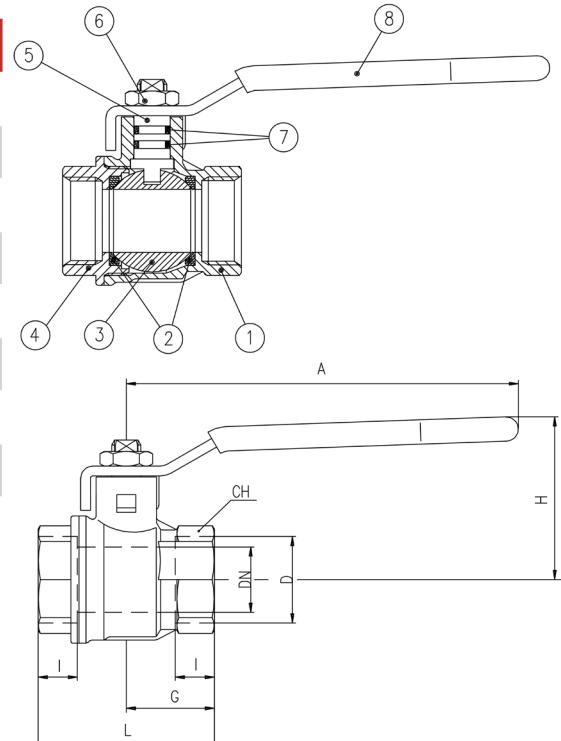


s.90 NPT SHORT XCES90N - 6012

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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	Red PVC coated Geomet® steel handle	1	DD11 (EN10111)



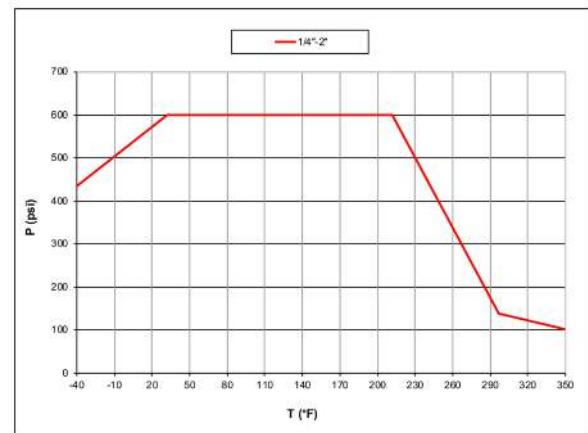
1 1/4"-2" hollow ball

For sales within EU: CE marking needed,
please contact us

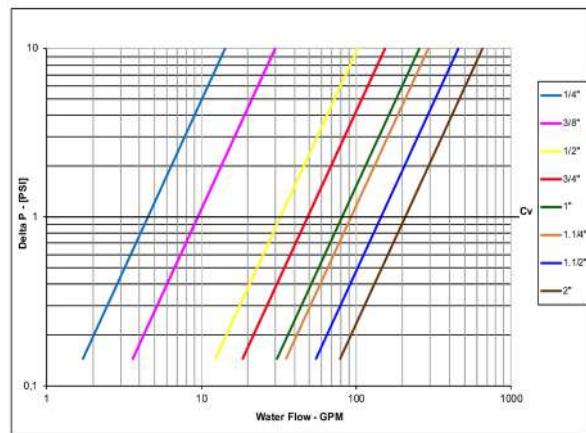
Code	S90B41	S90C41	S90D41	S90E41	S90F41	S90G41	S90H41	S90I41
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (inch)	0.315	0.374	0.591	0.748	0.945	1.181	1.496	1.890
I (inch)	0.354	0.354	0.433	0.472	0.551	0.59	0.669	0.748
L (inch)	1.535	1.535	1.968	2.125	2.637	3.031	3.543	4.173
G (inch)	0.767	0.767	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



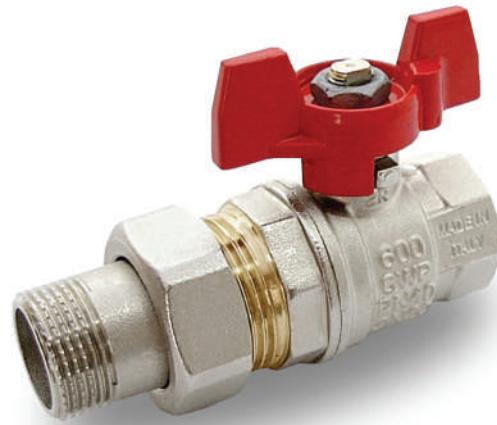


s.9036

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

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

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

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

NOTE: approvals apply to specific configurations/sizes only.

s.9036 XCES9036 - 6012

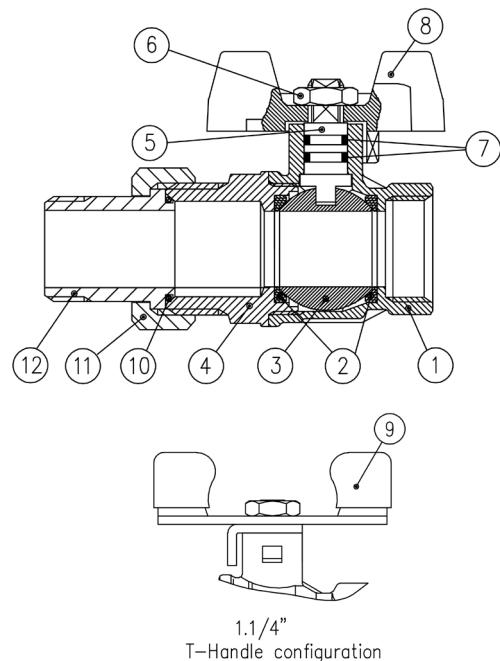
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Part description		Q.ty	Material
1	Nickel plated body (external nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap (external nickel plated excluding male thread, unplated inside)	1	CW617N
5	Nickel 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" hollow ball

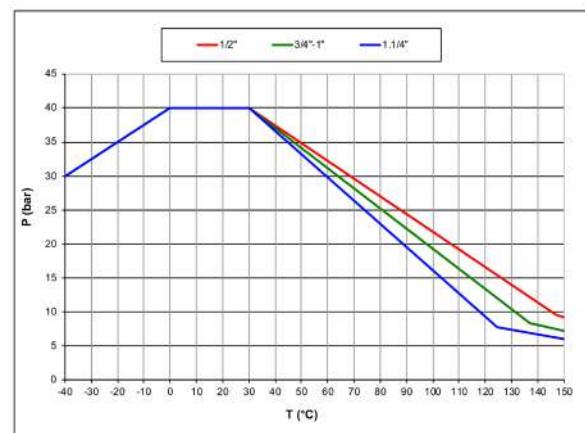
Compliant to
CE 2014/68/
UE product
Equipment
category I
Module A



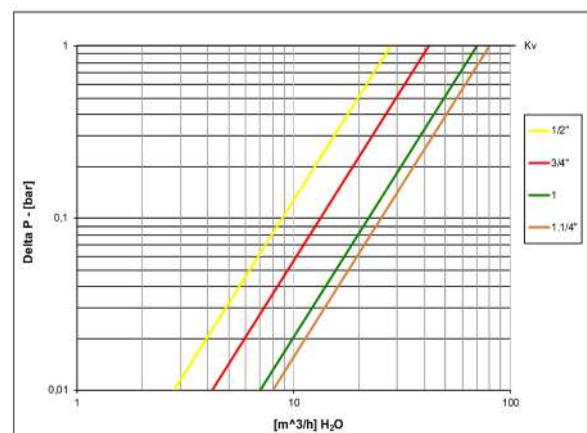
Code	S90D36	S90E36	S90F36	S90G36
D (inch)	1/2"	3/4"	1"	1 1/4"
DN (mm)	15	20	25	32
I1 (mm)	10	12	14	15
I (mm)	11	12	14	15
L (mm)	85	98	113	126,5
G (mm)	25	27	33,5	38,5
A (mm)	25	30	30	57
H (mm)	43	47	51	84,5
CH (mm)	25	31	38	48
CH1 (mm)	30	37	46	52
Kv (m³/h)	28	42	70	80

DN shower 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

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
- -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

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

NOTE: approvals apply to specific configurations/sizes only.

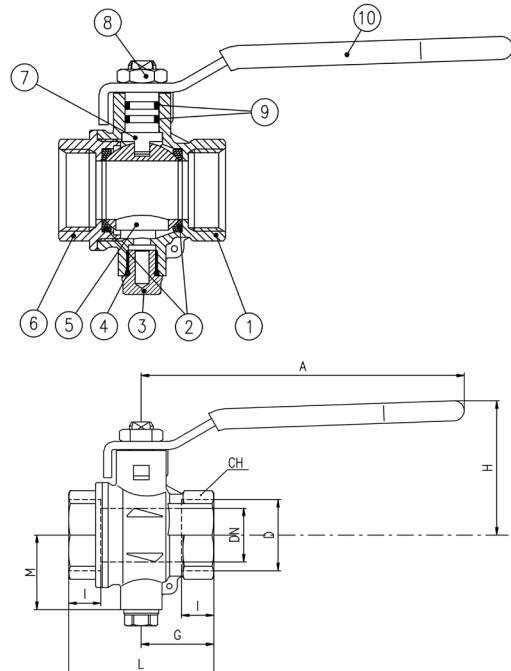


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Part description		Q.ty	Material
1	Nickel plated body (external treatment)	1	CW617N
2	Seat	2	PTFE
3	Cap	1	CW617N
4	O-Ring	1	FPM
5	Chrome plated ball	1	CW617N
6	Nickel plated end-cap (external treatment)	1	CW617N
7	Nickel plated stem O-ring design	1	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

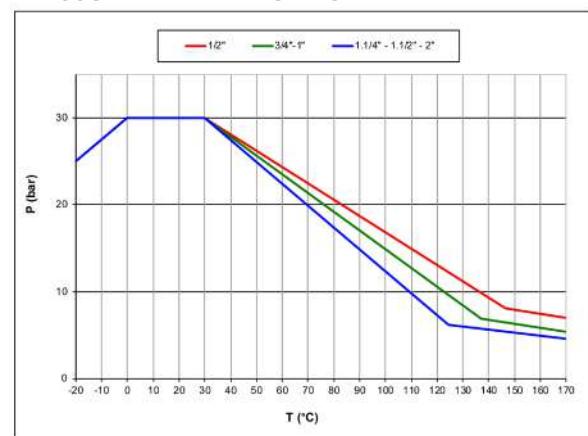


Compliant to CE 2014/68/UE product
Equipment category I Module A

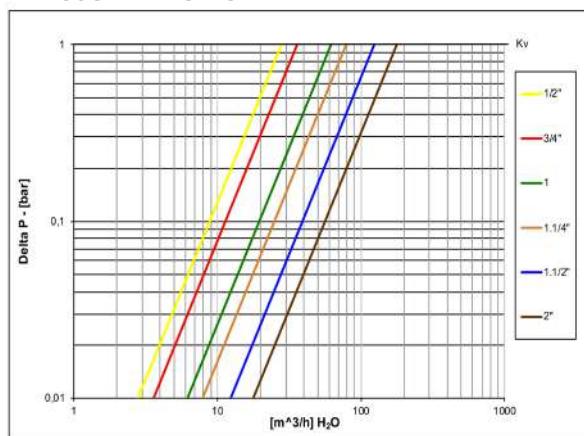
Code	S94D00	S94E00	S94F00	S94G00	S94H00	S94I00
D (mm)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	15	20	25	32	40	50
I (mm)	11	12	14	15	17	19
L (mm)	50	54	67	77	90	106
G (mm)	25	27	33.5	38.5	45	53
M (mm)	32	30	32	38	44.3	51.3
A (mm)	100	120	120	158	158	158
H (mm)	43	50	54	73	79	86
CH (mm)	25	31	40	49	54	68.5
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)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.



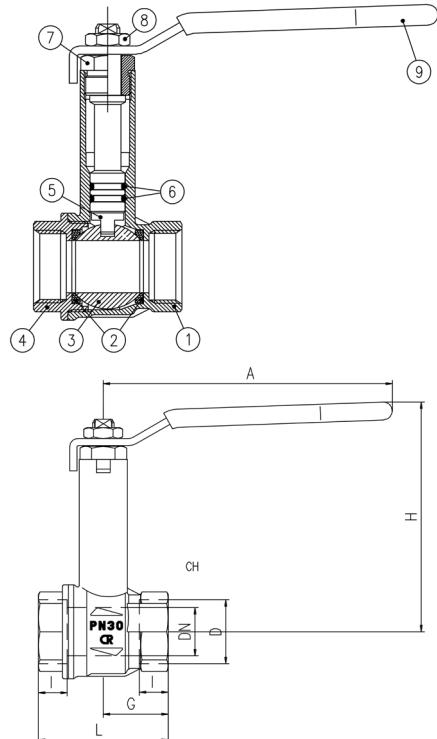
S.96 XCES96 - 6012

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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

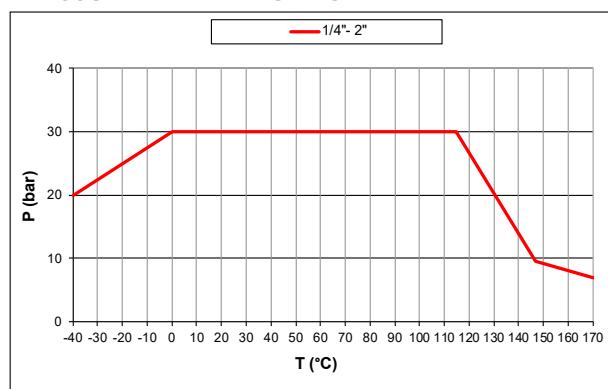


Compliant to CE 2014/68/UE product
Equipment category I Module A

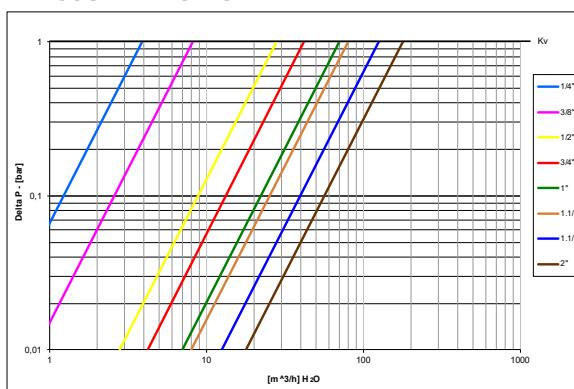
Code	S96B00	S96C00	S96D00	S96E00	S96F00	S96G00	S96H00	S96I00
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN (mm)	8	10	15	20	25	32	40	50
I (mm)	9	9	11	12	14	15	17	19
L (mm)	39	39	50	54	67	77	90	106
G (mm)	19.5	19.5	25	27	33.5	38.5	45	53
A (mm)	100	100	100	120	120	158	158	158
H (mm)	85	85	88	95	99	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.97

3/4" - 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 (filtration degree: 500 microns / 35 mesh).
- 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
- Water glycol ready

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
- Double EPDM O-rings at the stem for maximum safety

SEALING

- Pure PTFE seats

THREADS

- ISO 228 parallel female by female threads

FLOW

- Nominal port

OPTIONS

- T-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

- Shell rating: 30 bar (450 PSI) non-shock cold working pressure for sizes 3/4" and 1", 20 bar (290 PSI) for sizes 1 1/4" to 2"
- -20°C to +150°C (-4°F to +302°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve
- **WARNING:** with pressure differentials higher than 2 bar, cleaning operation is mandatory (refer to Installation, Maintenance and Operating Instructions provided with 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

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

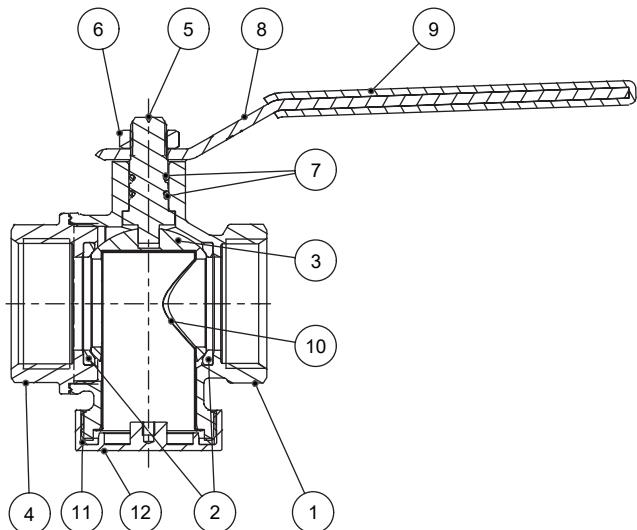
NOTE: approvals apply to specific configurations/sizes only.



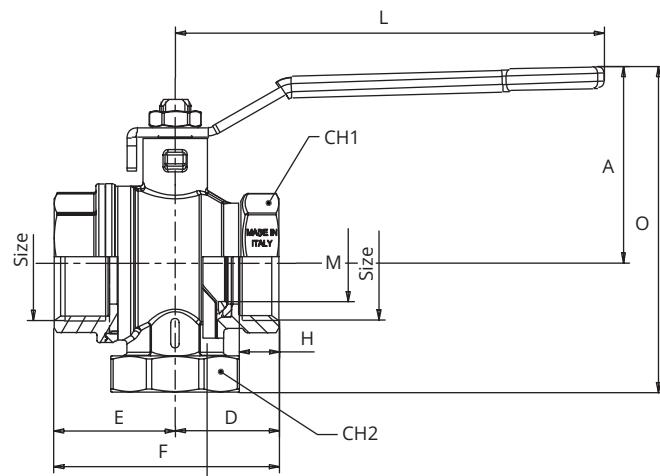
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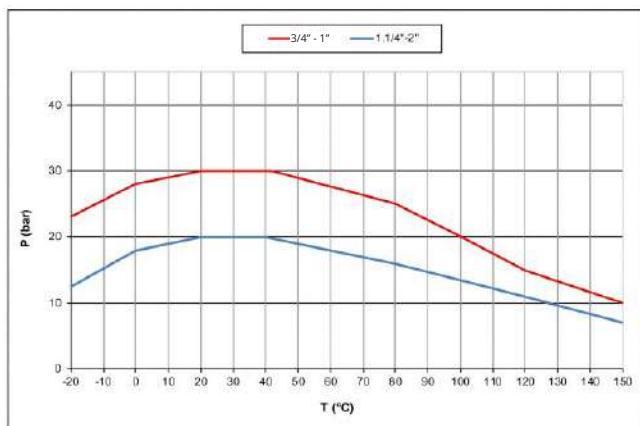
Part description		Q.ty	Material
1	Sand blasted nickel plated body (External nickel plated, unplated inside)	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Sand blasted nickel plated end cap (External nickel plated, unplated inside)	1	CW617N
5	Nickel plated stem O-Ring design	1	CW617N
6	Geomet® plated steel nut	1	C4C
7	O-Ring peroxide cured Shore A 70±5	2	EPDM
8	Geomet® steel handle	1	Carbon steel
9	Black dipped coating (RAL 9005)		PVC
10	Sheet metal filter - 500 µm mesh	1	AISI 304
11	Gasket	1	EPDM
12	Nickel plated filter cap	1	CW617N



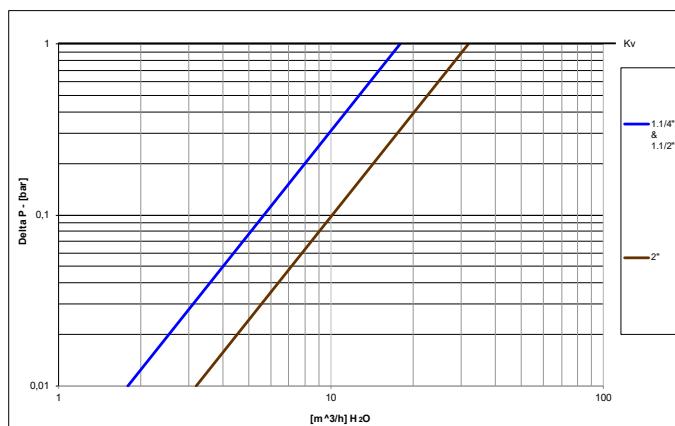
Code	S97E00	S97F00	S97G00	S97H00	S97I00
Size (inch)	3/4"	1"	1 1/4"	1 1/2"	2"
A (mm)	50	73	73	79	86
D (mm)	27	38	38.5	45	53
E (mm)	29.5	33.5	44.8	51	60.95
F (mm)	56.5	71.5	83.3	96	113.95
H (mm)	12	14	15	17	19
L (mm)	120	120	158	158	158
M (mm)	16	20	28.5	37	48
O (mm)	85	94	120	133.5	151
CH1 (mm)	31	38	48	54	65
CH2 (mm)	30	38	48	55	68
PN (bar)	30	30	20	20	20
Kv (m³/h)	TBD	TBD	18	18	32



PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.110

Female/Female
3/8" - 4"
ISO 228, gate valve



EAC

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

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

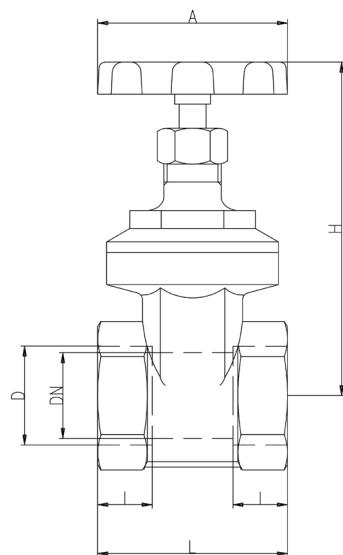
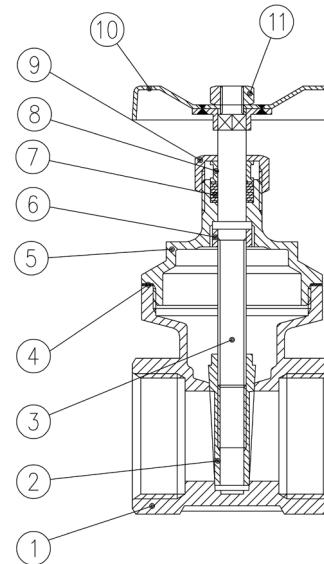
NOTE: approvals apply to specific configurations/sizes only.

s.110 XCE110 - 5813

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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



EAC

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

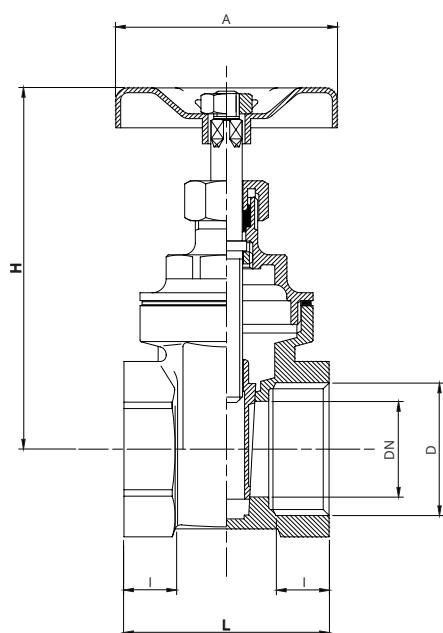
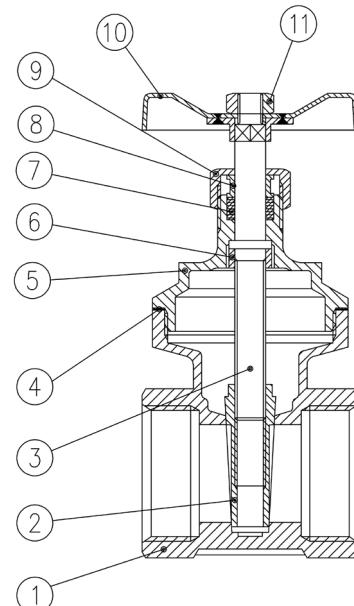
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

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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



EAC

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

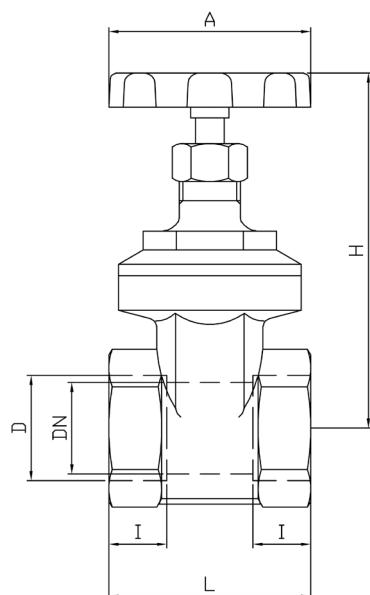
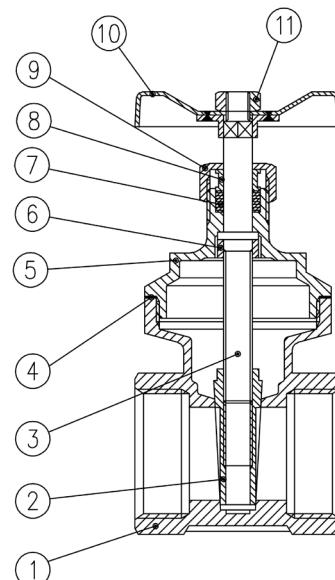
- 150 PSI non-shock cold working pressure
- +14°F to +176°F (-10°C to +80°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

APPROVED BY OR IN COMPLIANCE WITH

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

NOTE: approvals apply to specific configurations/sizes only.

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

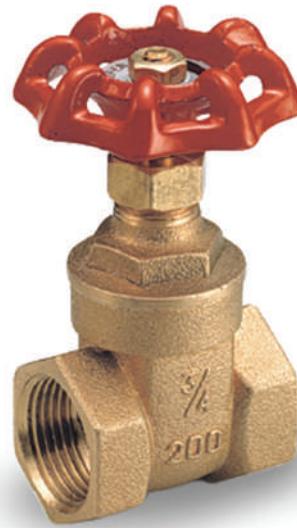


Code	112D00	112E00	112F00	112G00	112H00	112I00	112L00	112M00	112N00
D (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (inch)	0,531	0,61	0,748	1,062	1,299	1,732	1,85	2,362	2,834
I (inch)	0,354	0,354	0,393	0,393	0,433	0,472	0,511	0,511	0,59
L (inch)	1,377	1,535	1,692	1,889	2,125	2,283	2,48	2,755	3,149
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



EAC

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

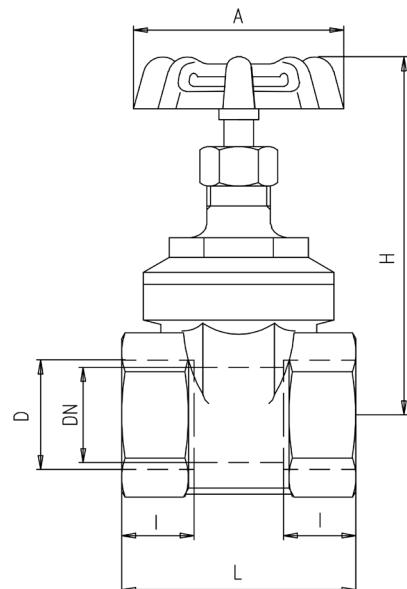
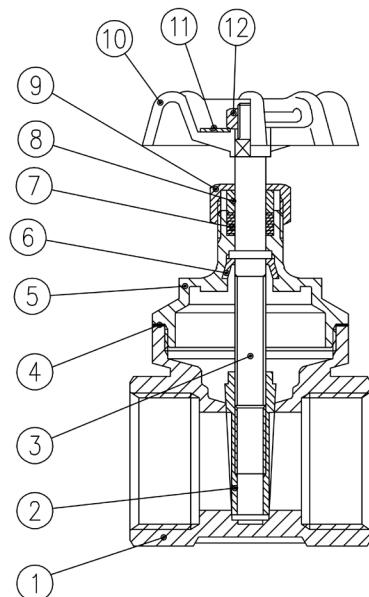
- 200 PSI non-shock cold working pressure
- -4°F to +350°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

APPROVED BY OR IN COMPLIANCE WITH

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

NOTE: approvals apply to specific configurations/sizes only.

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.115 sweat end

Female/Female
1/2" - 2"
heavy pattern gate valve



EAC

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

CONNECTIONS

- Solder end connections

HANDLE

- Strong cast aluminum hand-wheel
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 200 PSI (for solder joints rating see table 1) non-shock cold working pressure
- -4°F to +200°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

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

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS

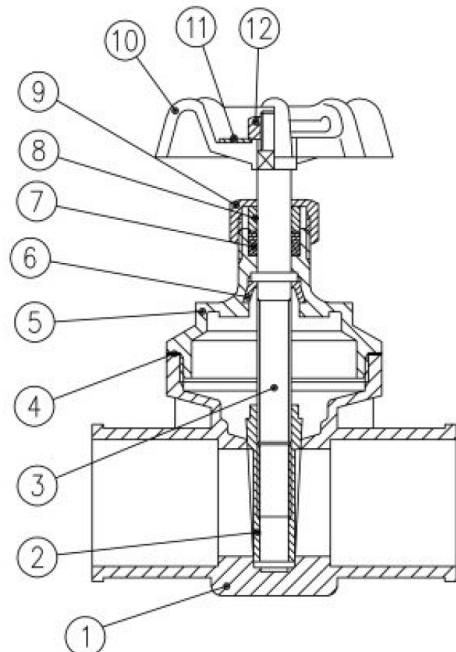
- s.114 NPT female by female taper threads

s.115 sweat end XCE115 - 5813

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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	115D00	115E00	115F00	115G00	115H00	115I00
Size (inch)	Nominal	1/2"	3/4"	1"	1 1/4"	1 1/2"
	Actual	0,630	0,878	1,130	1,378	1,630
DN (inch)	0,500	0,748	1,000	1,248	1,500	2,000
I (inch)	0,492	0,748	0,905	0,964	1,102	1,338
L (inch)	1,772	2,362	2,716	3,031	3,386	4,016
A (inch)	2,165	2,165	2,362	2,835	3,150	3,937
H (inch)	2,815	3,130	3,661	4,331	4,862	6,083
PSI	200	200	200	200	200	200

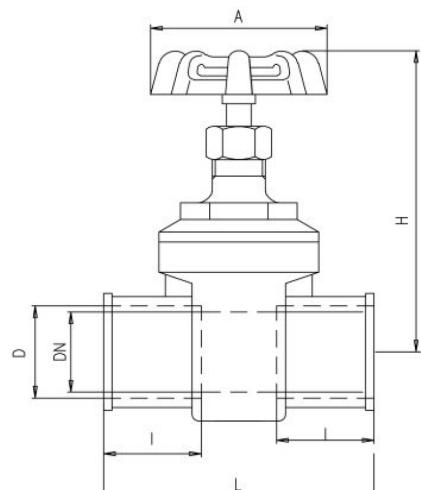


TABLE 1 PRESSURE - TEMPERATURE RATINGS

Joining material	Melting range degrees		Working temperature degrees		Maximum working gauge pressure					
	°F	°C	°F	°C	Size 1/8" - 1"		Size 1 1/4" - 2"		Size 2 1/2" - 4"	
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:

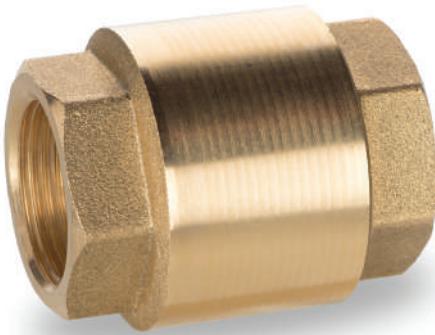
Above stated limits are not imposed by the valve, but by the strength of the soldering joint according to ASME B16.22.

* This alloy contains more than 0,2% lead and, according to certain specifications, cannot be used for potable water or other foods.



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

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

NOTE: approvals apply to specific configurations/sizes only.

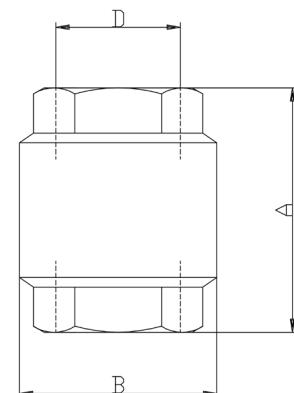
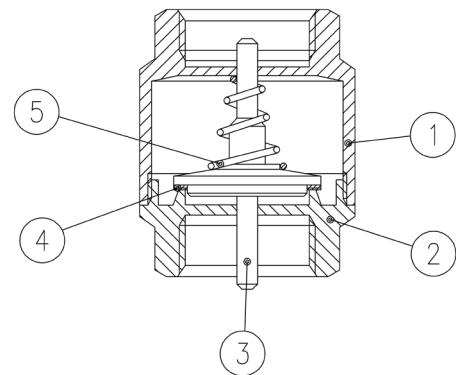
OPTIONS

- Stainless steel filter (1.4301 / AISI 304)

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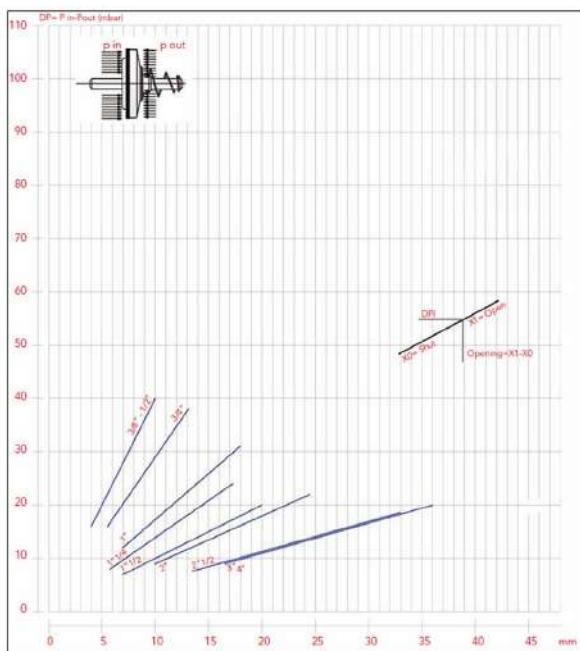


Part description		Q.ty	Material
1	Body	1	CW617N
2	Seat	1	CW617N
3	Stem-seat	1	Nylon
4	Seat	1	NBR
5	Stainless steel spring	1	1.4325/AISI 302
6	Strainer	1	AISI304 (1.4301)

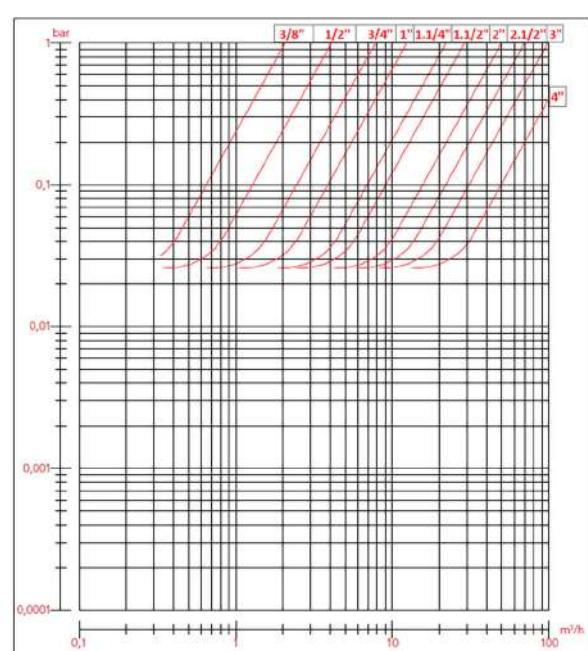


Code	120C00	120D00	120E00	120F00	120G00	120H00	120I00	120L00	120M00	120N00
D (inch)	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A (mm)	46,5	47	53	60,5	66,5	74	80	98	103	118,5
B (mm)	34,5	34,5	42	47,5	59,5	71	86,5	102	125	155
PN (Kg/cm²)	12	12	12	12	10	10	10	8	8	8
Kv	2,11	4,22	7,92	11,67	22,42	29,39	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.

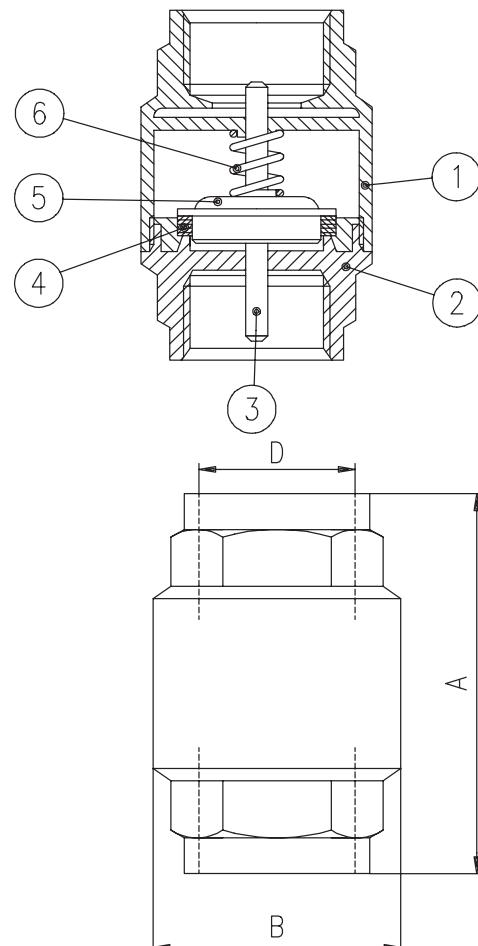
OPTIONS

- 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"

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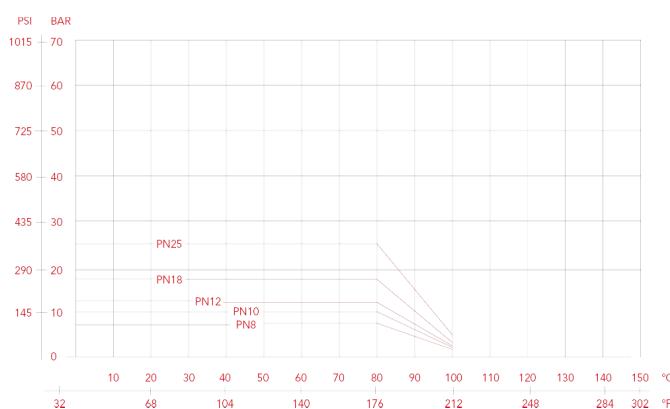


Part description		Q.ty	Material
1	Body	1	CW617N
2	End-cap	1	CW617N
3	Stem	1	CW614N
4	Seat	1	NBR
5	Seat holder	1	1.4301 / AISI 304
6	Stainless steel spring	1	1.4325 / AISI 302

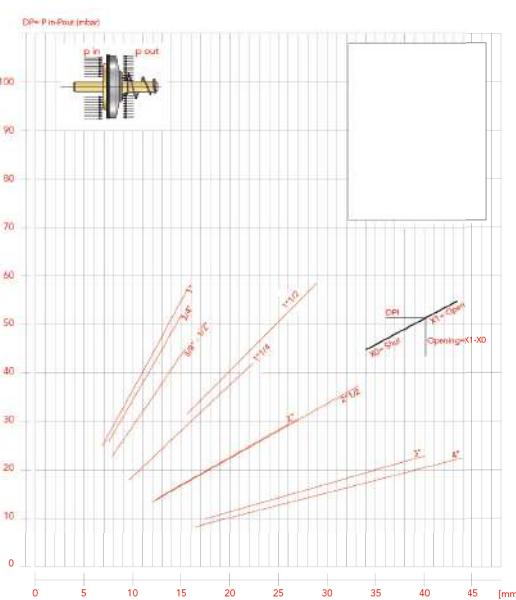


Code	122B00	122C00	122D00	122E00	122F00	122G00	122H00	122I00	122L00	122M00
Size (inch)	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A (mm)	55	58.5	65	74.5	83	93	101	122	141.5	158.5
ØB (mm)	34.5	34.5	41.5	48	60.5	71	87	120	140	172
PN (Kg/cm²)	25	25	25	25	18	18	18	12	12	12

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

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

NOTE: approvals apply to specific configurations/sizes only.

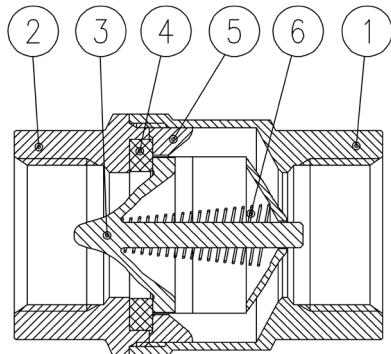
OPTIONS

- Stainless steel filter

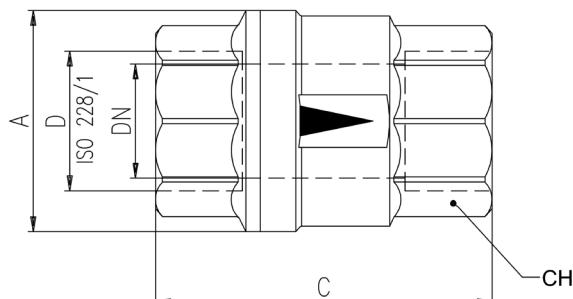
Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with your supplier for additional information on the suitability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

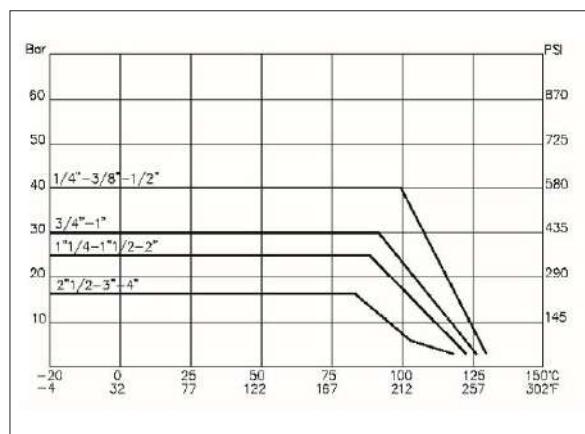


FLOW DIRECTION →

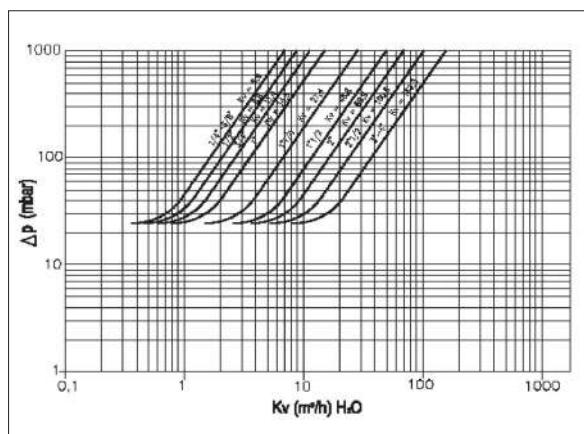


Code	123B00	123C00	123D00	123E00	123F00	123G00	123H00	123I00	123L00	123M00	123N00
D (Size)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (mm)	10	10	15	20	25	32	40	50	65	80	80
A (mm)	28	28	34	41,5	50	60,5	73,5	89	114	137	142
C (mm)	46,5	46,5	50	59	67	76	90	101	127	150	133,5
CH (mm)	21	21	26	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

- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- Attestation de Conformité Sanitaire (France)
- **NOTE:** approvals apply to specific configurations/sizes only.

OPTIONS

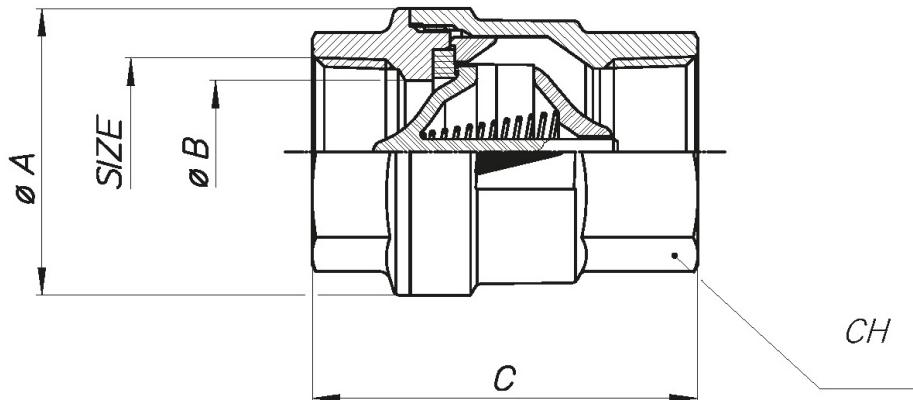
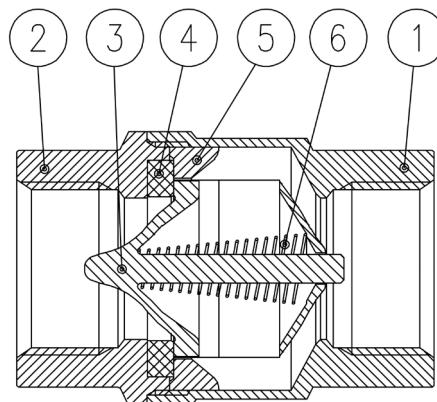
- Stainless steel filter
- ISO 228 parallel female by female threads

s.123 NPT XCE123N - 5813

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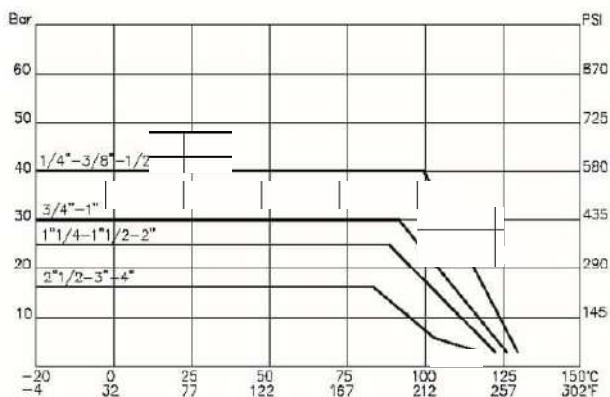


Part description		Q.ty	Material
1	Body	1	CW617N
2	End-cap	1	CW617N
3	Disc	1	Hostaform
4	Seat	1	NBR
5	Disc guide	1	Hostaform
6	Stainless steel spring	1	1.4325 / AISI 302

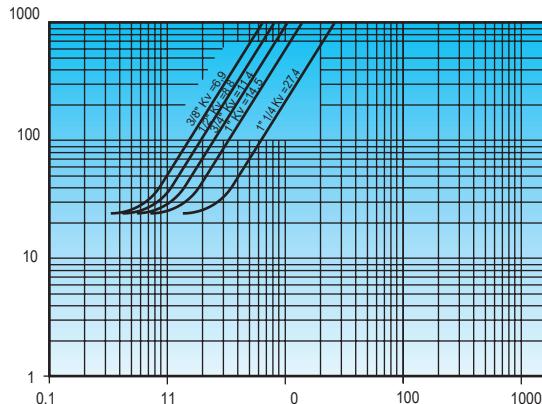


Code	123B41	123C41	123D41	123E41	123F41	123G41
Size (inch)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"
ØA (inch)	1,1	1,1	1,34	1,63	1,97	2,38
B (inch)	0,39	0,39	0,59	0,79	0,98	1,26
C (inch)	1,83	1,83	2,07	2,32	2,64	2,99
CH (inch)	0,83	0,83	1,02	1,26	1,54	1,93
PN (psi)	580	580	580	435	435	363
Cv (GPM)	5,96	5,96	7,6	9,85	12,53	23,67

PRESSURE-TEMPERATURE CHART



PRESSURE DROP CHART





s.124

1/2" - 4"
ISO 228
foot valve



EAC

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 1/4" 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

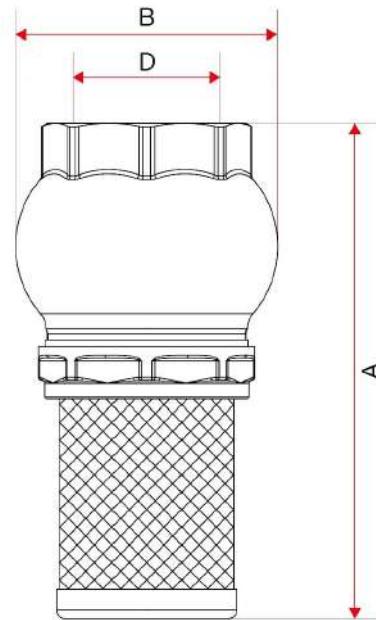
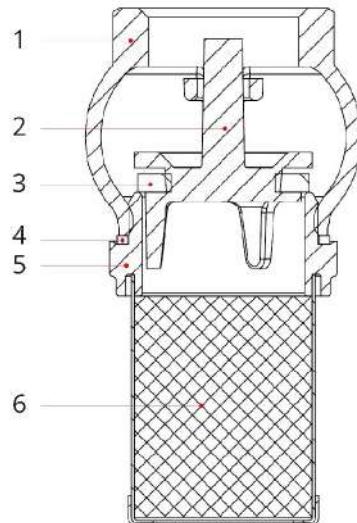
APPROVED BY OR IN COMPLIANCE WITH

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

NOTE: approvals apply to specific configurations/sizes only.



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/cm²)	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**



EAC

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

APPROVED BY OR IN COMPLIANCE WITH

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

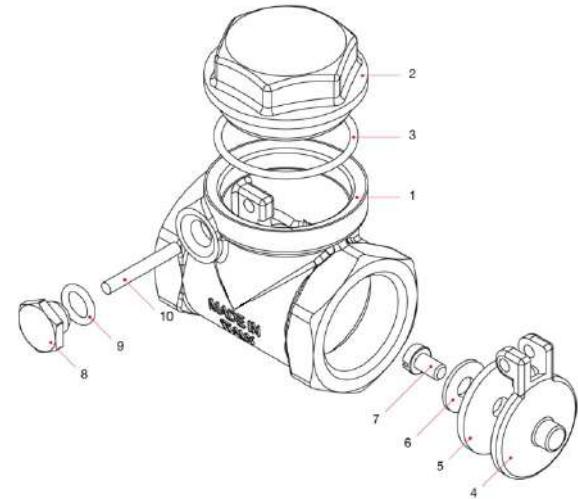
NOTE: approvals apply to specific configurations/sizes only.

s.126 XCE126 - 5813

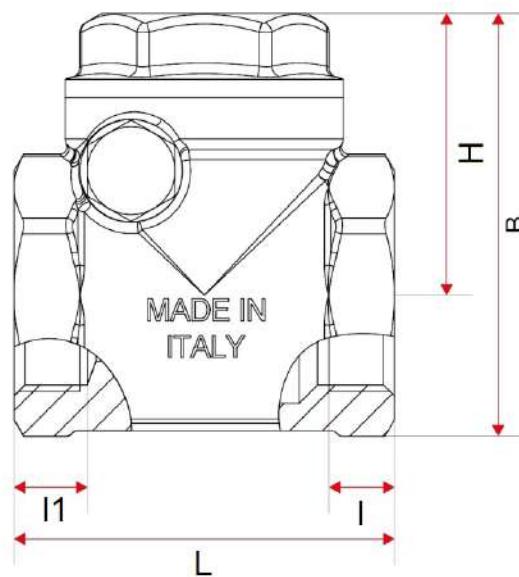
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Part description		Q.ty	Material
1	Unplated body	1	CW617N
2	Unplated hexagonal cap	1	CW617N
3	Hexagonal cap O-ring	1	NBR
4	Bonnet	1	CW617N
5	Seal	1	NBR
6	Washer	1	CW508L
7	Screw	1	CW508L
8	Plug	1	CW614N
9	Plug O-ring	1	NBR
10	Nail	1	CW614N



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/cm²)	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" - 4" swing check valve with metal seals**



EAC

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

APPROVED BY OR IN COMPLIANCE WITH

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

NOTE: approvals apply to specific configurations/sizes only.

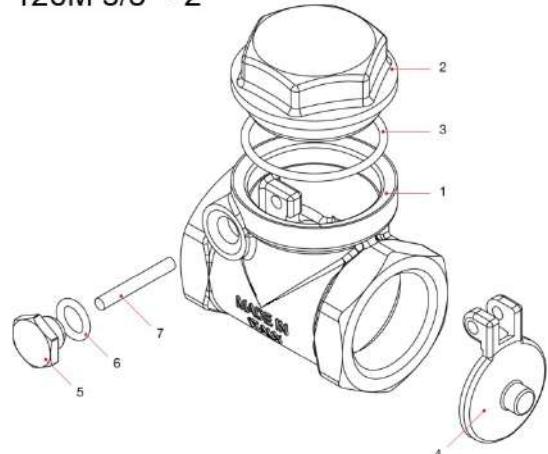
s.126 M XCE126M - 5932

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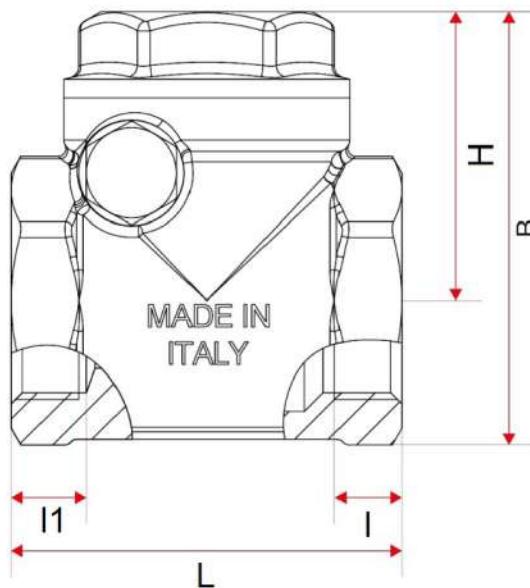


Part description		Q.ty	Material
1	Unplated body	1	CW617N
2	Unplated hexagonal cap	1	CW617N
3	Hexagonal cap O-ring	1	NBR
4	Bonnet	1	CW617N
5	Plug	1	CW614N
6	Plug O-ring	1	NBR
7	Nail	1	CW614N

126M 3/8" - 2"



Code	126C0M	126D0M	126E0M	126F0M	126G0M	126H0M	126I0M	126L0M	126M0M	126N0M
D (Size)	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (mm)	10	15	20	25	32	40	50	65	80	100
I (mm)	8	8	9	11,5	11,5	14,5	13	18	20	24
I1 (mm)	12	9,5	10	13	13	13	13,5	20,5	22,5	30,5
L (mm)	43	43	52	62	72	81	94	119	134	169
H (mm)	35	35	38,5	42	47	54	61	78	90	111
B (mm)	50	50	58	66	76	86	100	126,7	146,5	183,5
PN (Kg/cm²)	16	16	16	12	10	10	10	8	8	8



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For complete disclaimer: www.rubvalves.com/disclaimer



s.126 M NPT

Female/Female
1/2" - 2"
NPT swing check valve with metal seals



EAC

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

APPROVED BY OR IN COMPLIANCE WITH

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

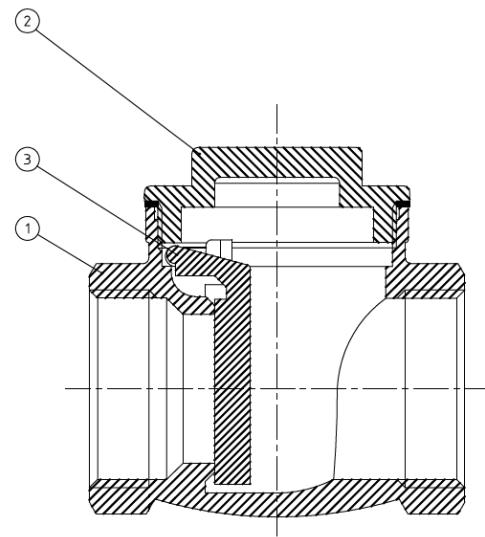
NOTE: approvals apply to specific configurations/sizes only.

s.126 M NPT XCE126MN - 5813

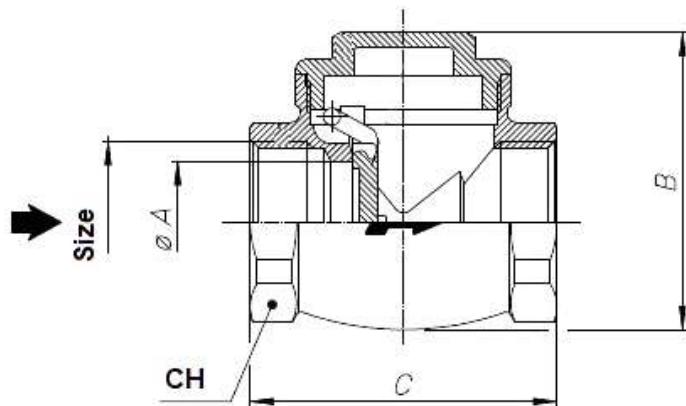
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Part description		Q.ty	Material
1	Unplated body	1	CW617N
2	Unplated bonnet	1	CW617N
3	Unplated sealing disc	1	CW617N



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

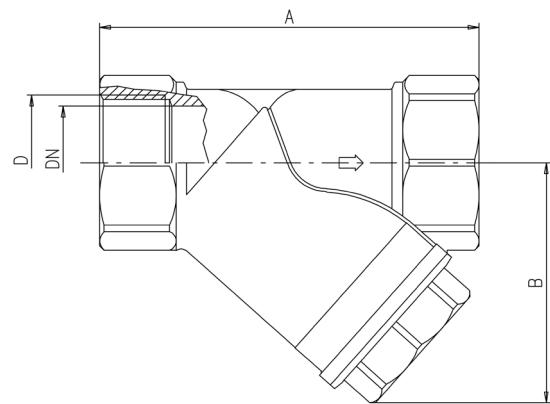
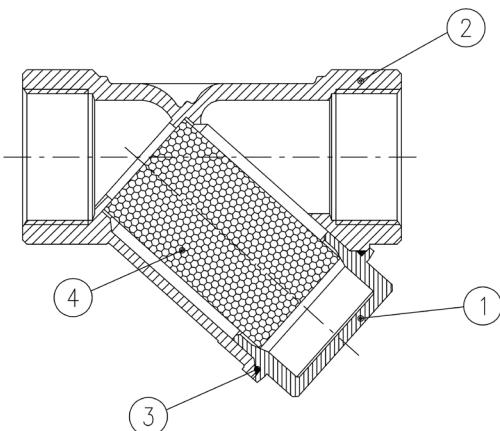
- Attestation de Conformité Sanitaire (France)

NOTE: approvals apply to specific configurations/sizes only.

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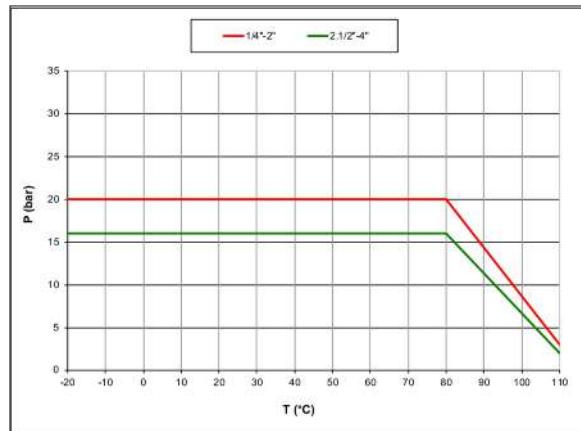


Part description		Q.ty	Material
1	End-cap	1	CW617N
2	Body	1	CW617N
3	O-Ring	1	NBR
4	Stainless steel strainer	1	1.4301 / AISI 304

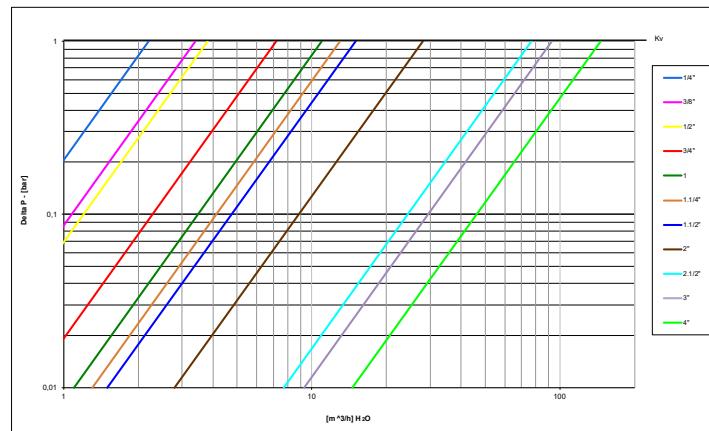


Code	128B00	128C00	128D00	128E00	128F00	128G00	128H00	128I00	128L00	128M00	128N00
D (inch)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A (mm)	55	55	58	70	87	96	106	126	150	169	219
B (mm)	40	40	40	48	56	64	73	88,5	105	120	162
DN	8	10	15	20	25	32	40	50	65	80	100
PN (Kg/cm²)	20	20	20	20	20	20	20	20	16	16	16
Kv (m³/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



EAC

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

- Enamelled 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

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

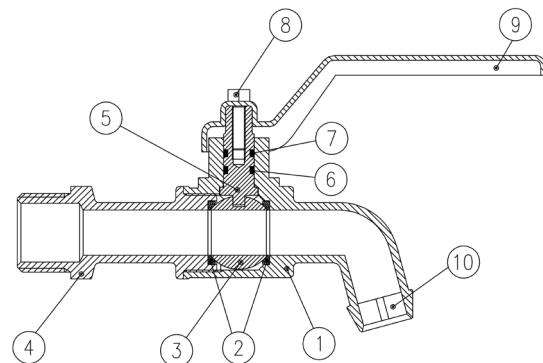
NOTE: approvals apply to specific configurations/sizes only.

s.140 XCE140 - 5813

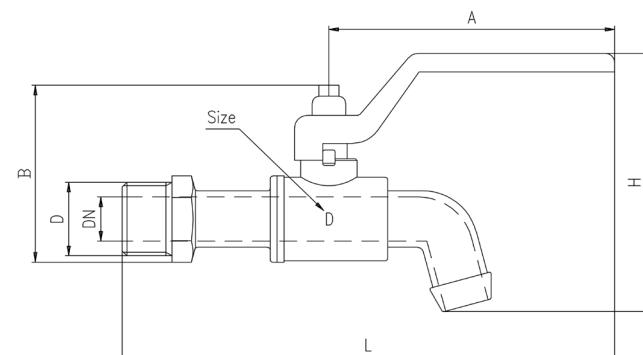
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Part description		Q.ty	Material
1	Nickel plated body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW614N
4	Nickel plated end-cap	1	CW617N
5	Stem O-Ring design	1	CW617N
6	O-Ring	1	FPM
7	O-Ring	1	NBR
8	Screw	1	Steel
9	Enameled red handle	1	Steel
10	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



EAC

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

- Enamelled 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

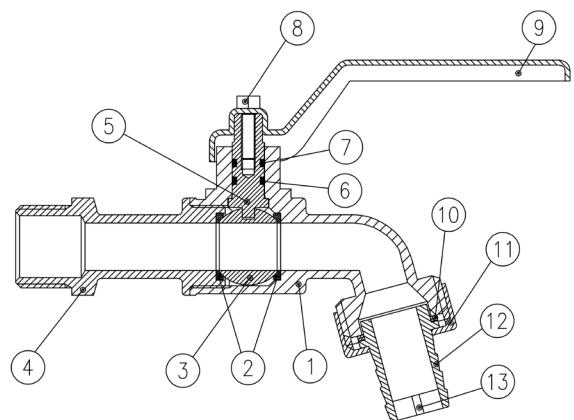
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)

NOTE: approvals apply to specific configurations/sizes only.

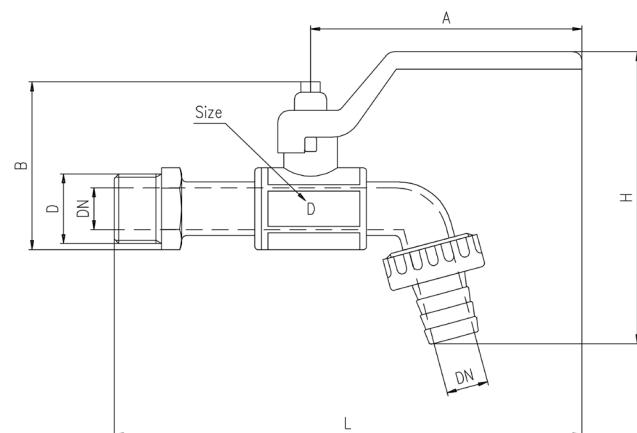
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Part description		Q.ty	Material
1	Nickel plated body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW614N
4	Nickel plated end-cap	1	CW617N
5	Stem O-Ring design	1	CW614N
6	O-Ring	1	FPM
7	O-Ring	1	NBR
8	Zinc plated screw	1	CB4 (EN10263-2)
9	Enameled 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	142COP	142DOP	142EOP	142FOP
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

OPTIONS

- T-handle for 1/2" to 1" sizes.

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

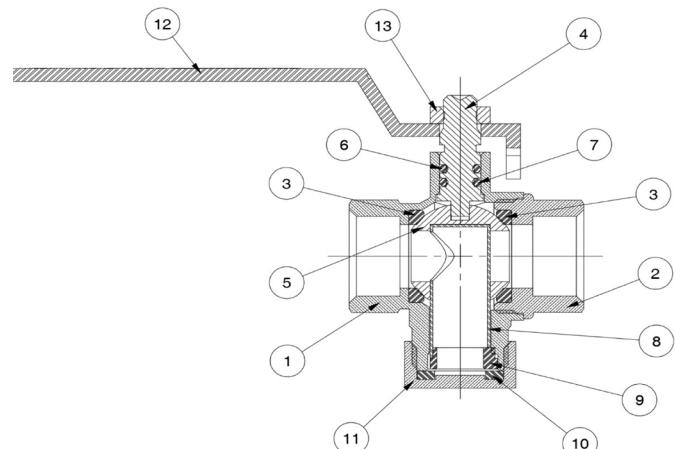
NOTE: approvals apply to specific configurations/sizes only.



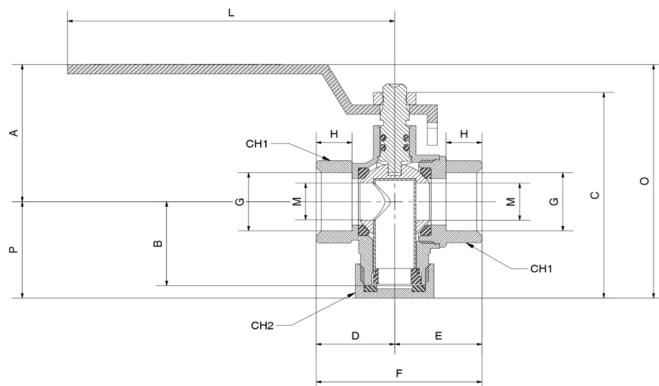
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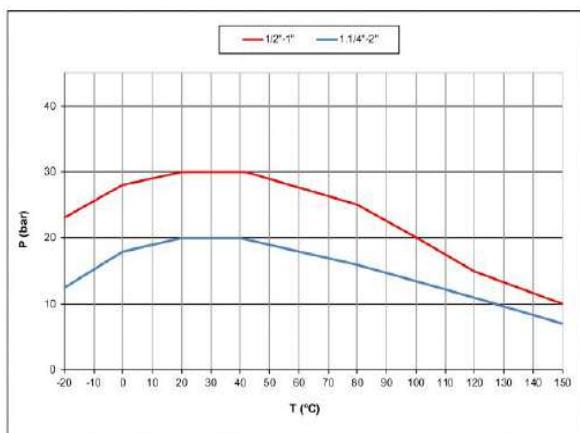
Part description		Q.ty	Material
1	Nickel plated body (external treatment)	1	CW617N
2	Nickel plated end-cap (external treatment)	1	CW617N
3	Seat	1	PTFE
4	Unplated stem O-ring design	1	CW614N
5	Chrome plated ball	1	CW617N
6	O-Ring	1	NBR
7	O-Ring	1	FKM
8	Filter	1	AISI304 + Nylon
9	Filter	1	AISI304 + Nylon
10	Flat seal	1	NBR
11	Plug	1	CW614N
12	Black plastic coated zinc plated handle	1	Steel
13	Zinc plated nut	1	Steel



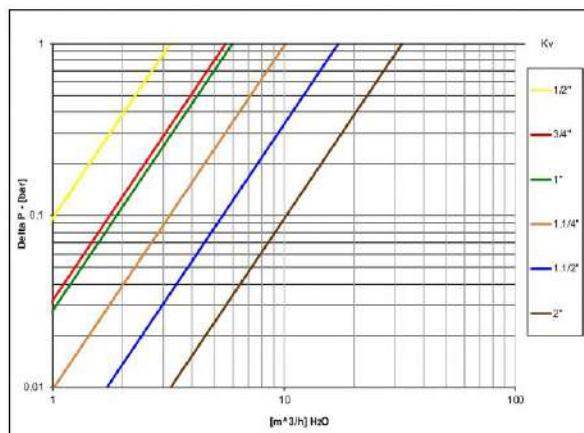
Code	190D00	190E00	190F00	190G00	190H00	190I00
Size (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A (mm)	44,2	47,4	50,8	74	80	88,5
B (mm)	27	30,9	34,5	46,5	52,5	63,5
C (mm)	66,2	73,5	80,5	106	118	143
D (mm)	24	29	34,5	40	45,5	54
E (mm)	26,7	32,3	35,6	45	52	63
F (mm)	50,7	61,3	70,1	85	97,5	117
H (mm)	11	13	15	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

OPTIONS

- T-handle for 1/2" to 1" sizes

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

NOTE: approvals apply to specific configurations/sizes only.

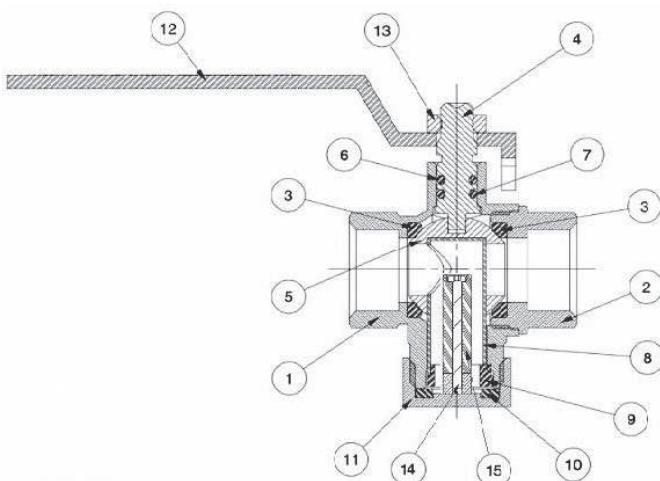


s.190 M XCE190M - 5813

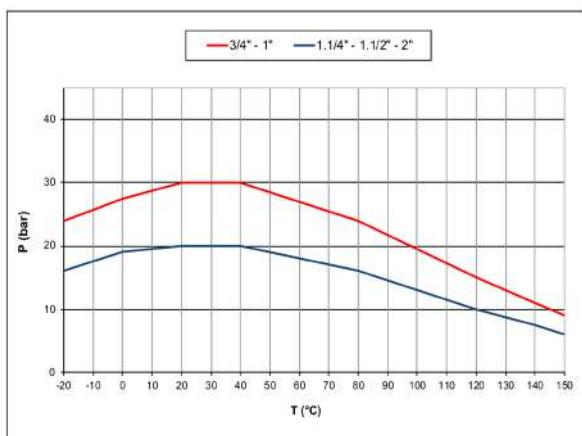
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Part description			Q.ty	Material
1	Nickel plated body	1	CW617N	
2	End connection	1	CW617N	
3	Seals	2	PTFE	
4	Stem	1	CW614N	
5	Chrome plated ball	1	CW617N	
6	O-Ring	1	NBR	
7	O-Ring	1	FKM	
8	Filter	1	1.4301 / AISI304 + Nylon	
9	Filter	1	1.4301 / AISI304 + 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	

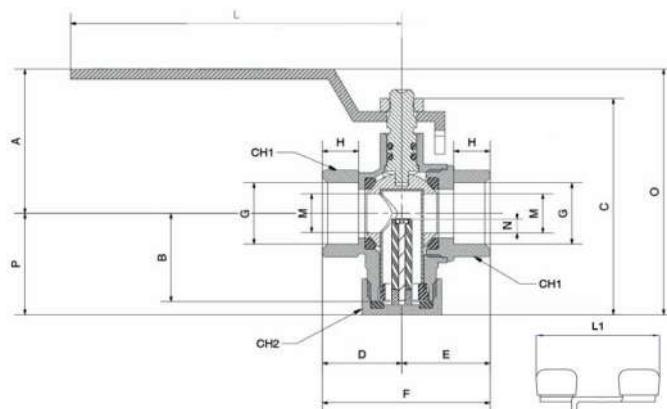


PRESSURE-TEMPERATURE CHART

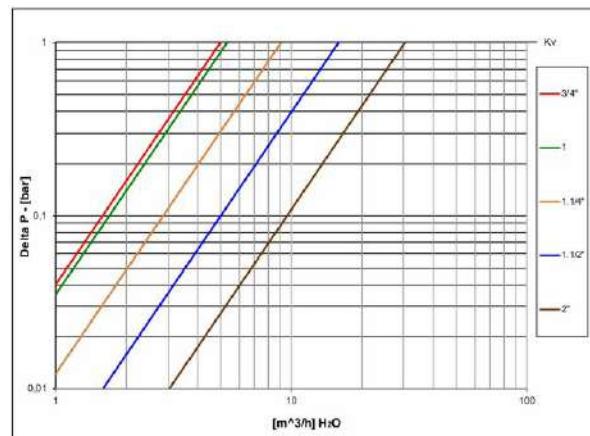


Code	190E00M	190F00M	190G00M	190H00M	190I00M
D (inch)	3/4"	1"	1 1/4"	1 1/2"	2"
A	47,4	50,8	74	80	88,5
B	30,9	34,5	46,5	52,5	63,5
C	73,5	80,5	106	118	143
D	29	34,5	40	45,5	54
E	32,3	35,6	45	52	63
F	61,3	70,1	85	97,5	117
H	13	15	17	17	20
L	100	100	158	158	158
L1	68	68	-	-	-
DN M	16	20	28	36	46
N	8	5,5	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



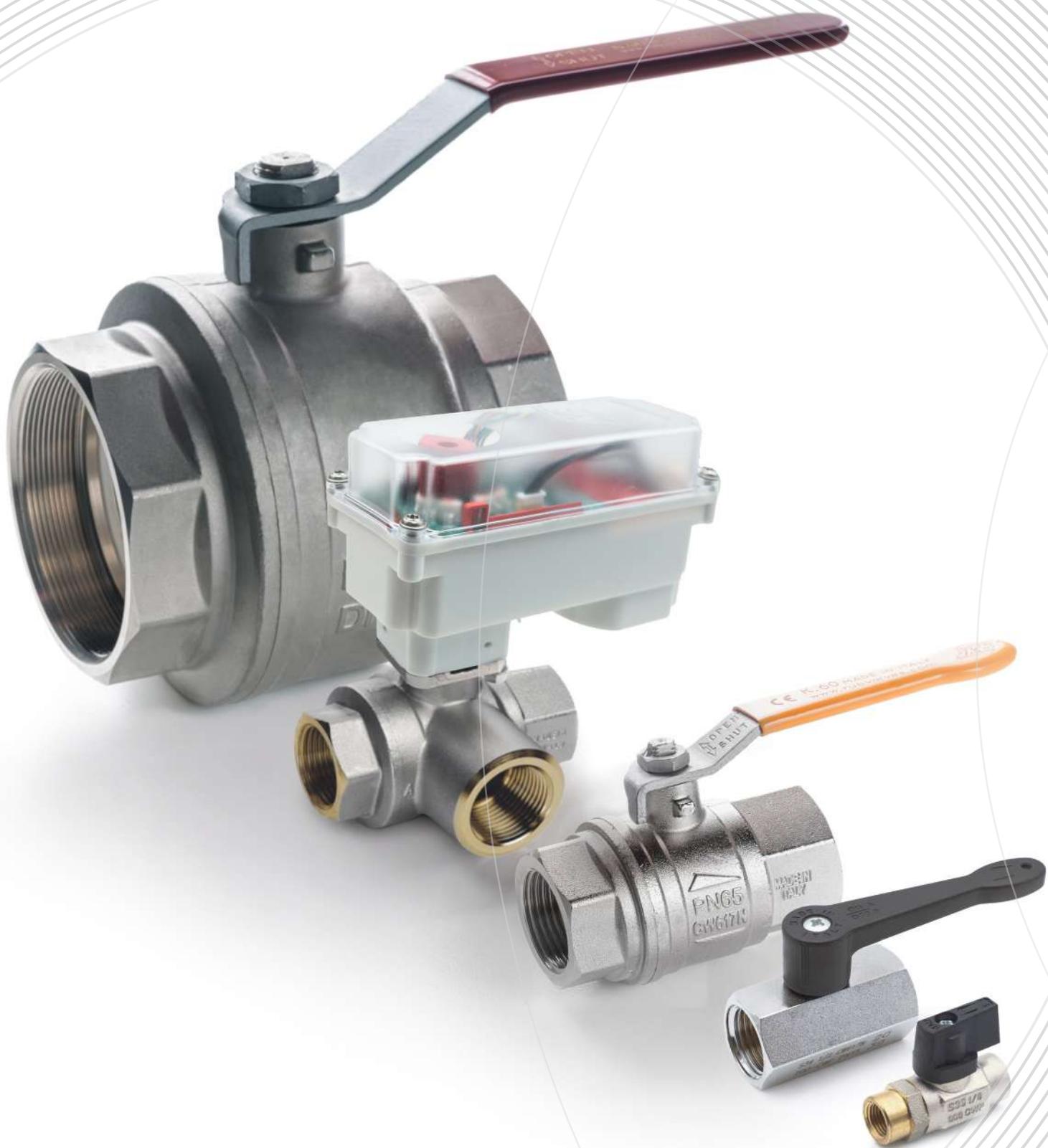
PRESSURE DROP CHART





Notes





Application Catalog



ACTUATION



INDUSTRY



PNEUMATIC



GAS



FIREFIGHTING



DRINKING WATER



PLUMBING



ACCESSORIES

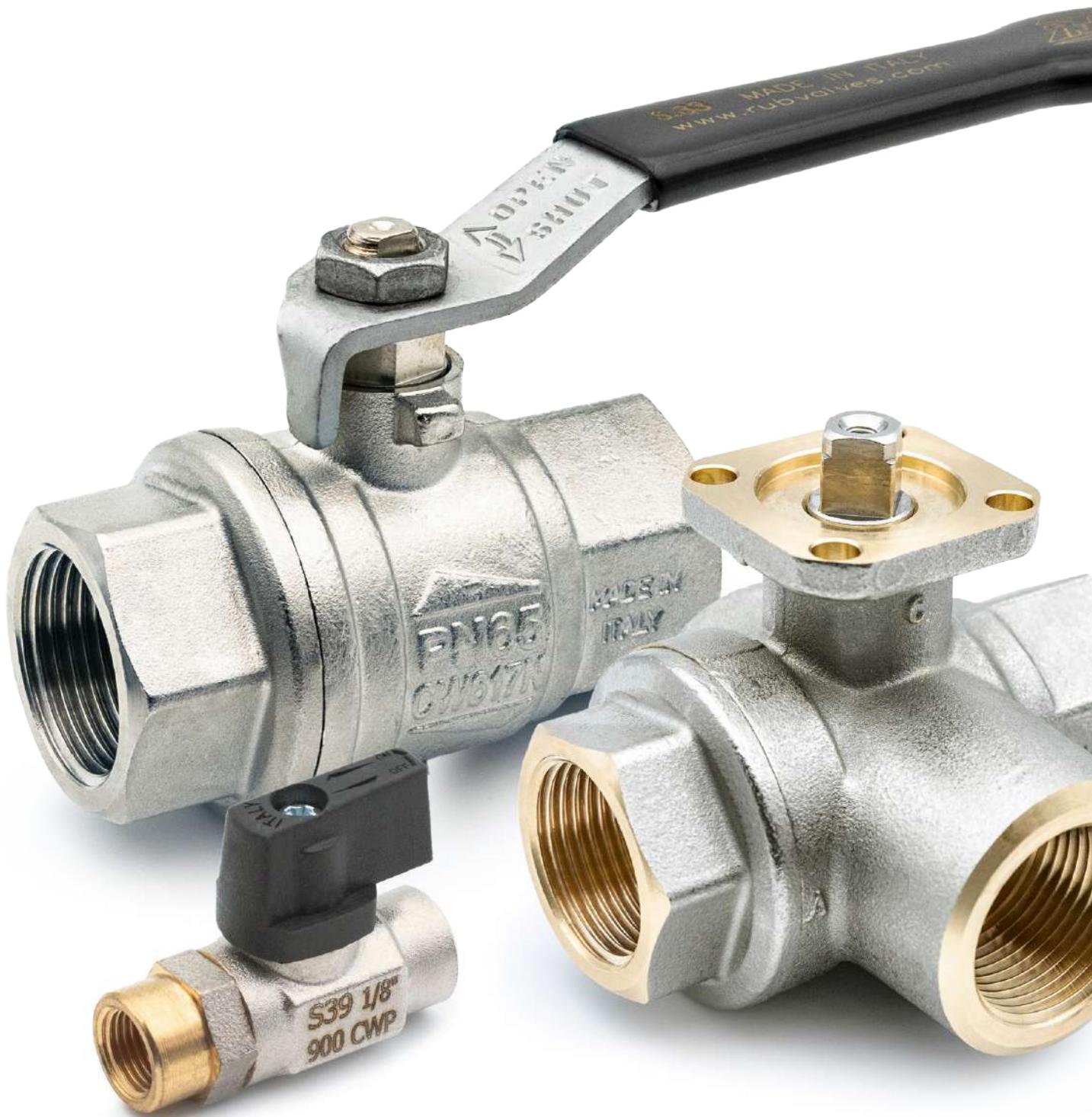


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