k.6405

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

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

The line has successfully passed 100,000 cycle life tests and is available in a variety of standard and customized configurations some with special seat design to compensate for wear.

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

Quality

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

Body

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

Stem

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

Sealing

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

Threads

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

Flow

- 100% full port for maximum flow

Operating device

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

Working pressure & temperature

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

Options

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

PED directive

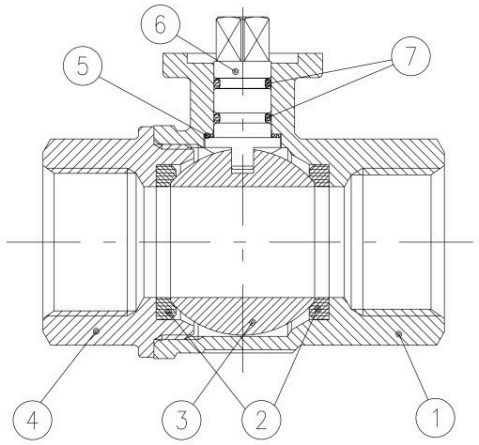
- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by ICIM (0425)

Approved by or in compliance with

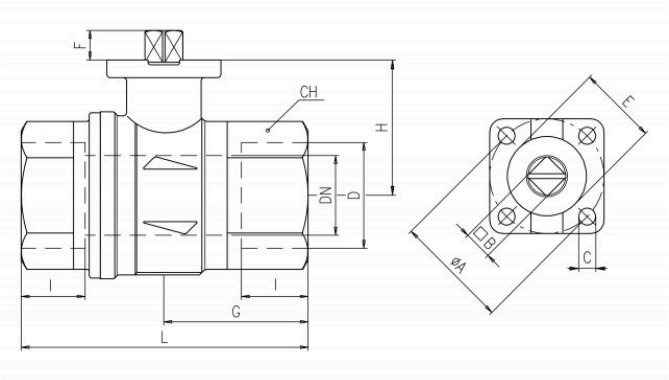
- DVGW (Germany) – MOP 5 B 0,1
- SVGW (Switzerland)
- GOST-R (Russia)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- RoHS Compliant (EU)

NOTE: approvals apply to specific configurations/sizes only.

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



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



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

Code	S64D05	S64E05	S64F05	S64G05	S64H05	S64I05
D (inch)	1/2	3/4	1	1 1/4	1 1/2	2
DN(mm)	15	20	25	32	40	50
I (mm)	15.5	18	21	23	24.5	26.5
L (mm)	75 ±2	80 ±2	90 ±2	110 ±2	120 ±2	140 ±2
G (mm)	30.5	37	45.5	52	59	67.5
H (mm)	31	38.5	42.5	55.5	62	69
CH(mm)	27 +0 -0.84	32 +0 -1	41 +0 -1	50 +0 -1	55 +0 -1.2	70 +0 -1.9
ØA(mm)	36	36	36	50	50	50
□B(mm)	9	9	9	11	11	14
C (mm)	5.6	5.6	5.6	6.6	6.6	6.6
E(mm)	25	25	25	35	35	35
F(mm)	7.5	8.5	8.5	10	10	14.5
Flange connection DIN ISO 5211 DIN 3337	F03	F03	F03	F05	F05	F05
Kv (m3/h)	28	60	100	155	245	290

Ball valves are marked CE on body from 1.1/4" to 2" as follow:
CE 0425 cat IIIB+D PS: 5 GAS TS1: -20°C TS2: +60°C

Torque for actuator Sizing N.m

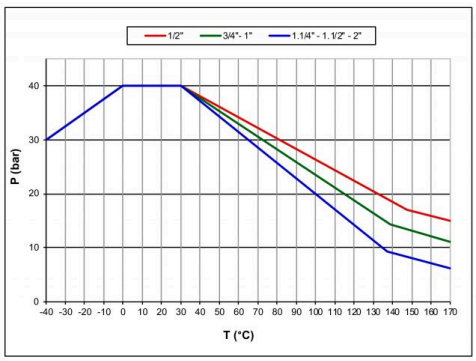
Delta P →	*0 ÷ 15 bar*		*40 bar*	
Valve size	*To open*	*To close*	*To open*	*To close*
1/2"	*3,2*	*2,4*	*3,2*	*2,4*
3/4"	*4,6*	*3,5*	*4,6*	*3,5*
1"	*11*	*8,2*	*11*	*8,2*
1.1/4"	*16*	*14,4*	*16*	*14,4*
1.1/2"	*28,2*	*25,4*	*31*	*28*
2"	*38,9*	*35*	*49,5*	*44,5*

Torque correction factors

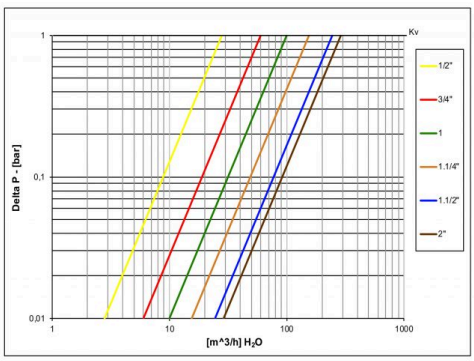
Valve torque can vary according to operating frequency, temperature and friction characteristics of the media. If media has more or less friction than water, multiply torque by the following factors.

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

Pressure-temperature chart



Pressure drop chart



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

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