



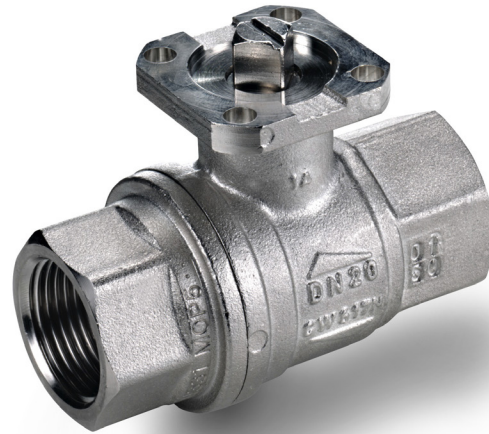
# s.6400

1/2" - 4"

EN 10226-1

ISO 5211

heavy duty



## Quality

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

## Body

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

## Stem

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

## Sealing

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

## Threads

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

## Flow

- 100% full port for maximum flow

## Operating mechanism

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

## Working pressure & temperature

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

## Options

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

## Upon request

- Custom design

## PED directive

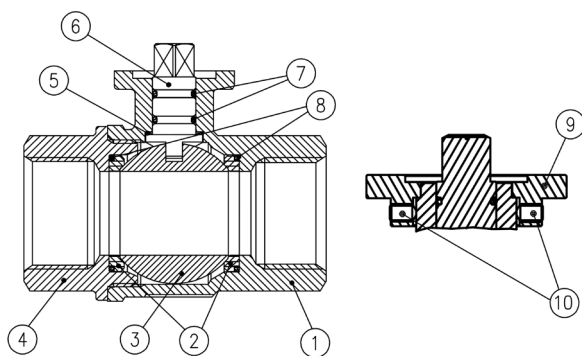
- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by ICIM (0425)

## Approved by or in compliance with

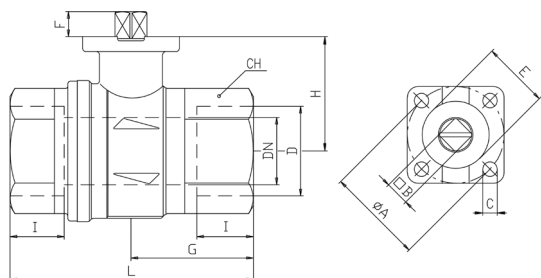
- GOST-R (Russia)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- Water Regulations Advisory Scheme (United Kingdom)

**NOTE:** approvals apply to specific configurations/sizes only.





Valves configuration up to 2"



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

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

| Compliant to<br>CE 2014/68/UE product<br>Equipment category III Module B+D |        |        |        |        |        |        |          |          |          |
|--|--------|--------|--------|--------|--------|--------|----------|----------|----------|
| Code   | S64D00 | S64E00 | S64F00 | S64G00 | S64H00 | S64I00 | S84L00AM | S84M00AM | S84N00AM |
| D (inch)   | 1/2    | 3/4    | 1      | 1 1/4  | 1 1/2  | 2      | 2 1/2    | 3        | 4        |
| DN(mm)   | 15     | 20     | 25     | 32     | 40     | 50     | 65       | 80       | 100      |
| I (mm)   | 15.5   | 18     | 21     | 23     | 24.5   | 26.5   | 32       | 35       | 41.5     |
| L (mm)   | 75     | 80     | 90     | 110    | 120    | 140    | 156      | 177      | 216      |
| G (mm)   | 30.5   | 37     | 45.5   | 52     | 59     | 67.5   | 78       | 88.5     | 108      |
| H (mm)   | 31     | 38.5   | 42.5   | 55.5   | 62     | 69     | 89       | 96       | 111      |
| CH(mm)   | 27     | 32     | 41     | 50     | 55     | 70     | 85       | 99       | 125      |
| ØA(mm)   | 36     | 36     | 36     | 50     | 50     | 50     | 70       | 70       | 70       |
| □B(mm)   | 9      | 9      | 9      | 11     | 11     | 14     | 17       | 17       | 17       |
| C (mm)   | 5.6    | 5.6    | 5.6    | 6.6    | 6.6    | 6.6    | 8.5      | 8.5      | 8.5      |
| E(mm)  | 25     | 25     | 25     | 35     | 35     | 35     | 55       | 55       | 55       |
| F(mm)  | 7.5    | 8.5    | 8.5    | 10     | 10     | 14.5   | 18       | 18       | 18       |
| Flange connection<br>DIN ISO 5211<br>DIN 3337                              | F03    | F03    | F03    | F05    | F05    | F05    | F07      | F07      | F07      |
| Kv(m3/h)   | 28     | 60     | 100    | 155    | 245    | 290    | 516      | 770      | 1120     |

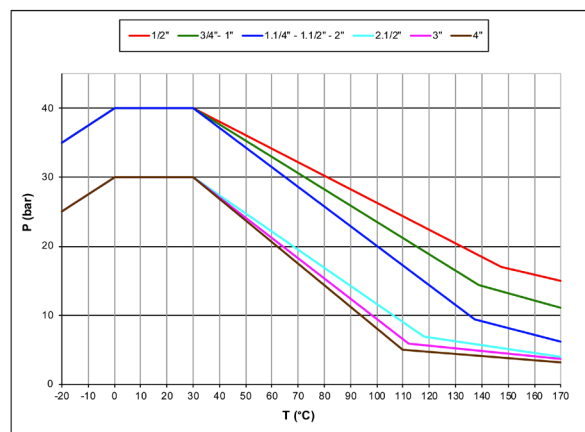
Ball valves are marked CE on end-cap from 1 1/4" to 4" as follow:

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

## Torque for actuator sizing N.m

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

## Pressure-temperature chart



## Torque correction factors

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

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

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

## Pressure drop chart

