



# s.6500

**Female/Female  
ISO 5211  
full port 1/2" - 1 1/4"  
hot forged brass ball valve**



## QUALITY

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

## BODY

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

## STEM

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

## SEALING

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

## THREADS

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

## OPERATING MECHANISM

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

## OPTIONS

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

## FLOW

- Full port to DIN 3357 for maximum flow

## WORKING PRESSURE & TEMPERATURE

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

## UPON REQUEST

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

## PED DIRECTIVE

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

## APPROVED BY OR IN COMPLIANCE WITH

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

NOTE: approvals apply to specific configurations/sizes only.



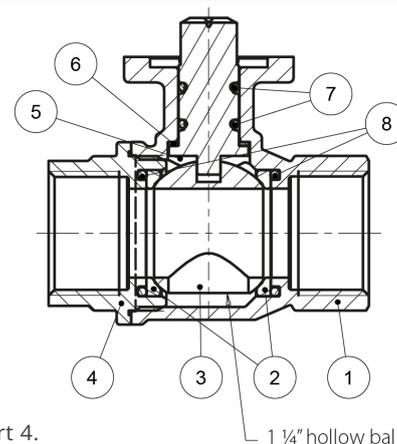
# s.6500 XCES6500 - 6071

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



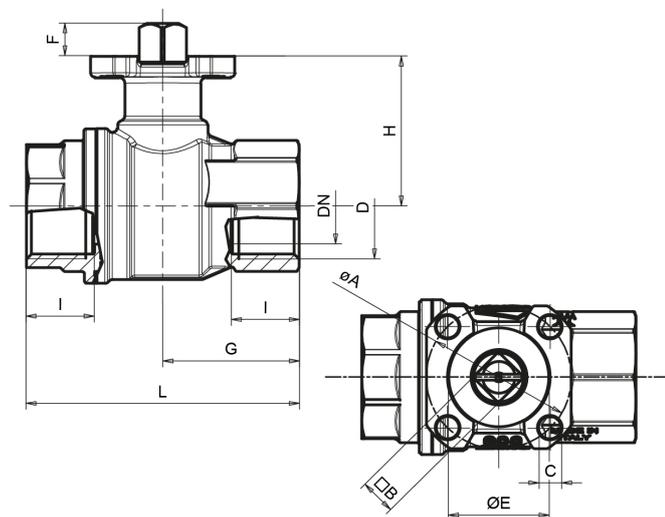
ACTUATION

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



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

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



## TORQUE FOR ACTUATOR SIZING N.M

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

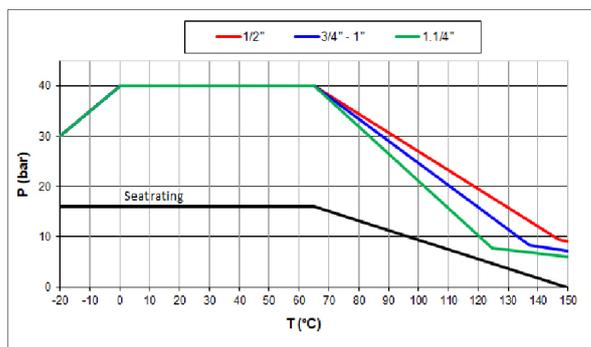
## TORQUE CORRECTION FACTORS

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

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

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

## PRESSURE-TEMPERATURE CHART



## PRESSURE DROP CHART

