



# s.6441 NPT

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

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

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

\*All sizes up to 2" included



## QUALITY

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

## BODY

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

## STEM

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

## SEALING

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

## THREADS

- NPT taper ANSI B.1.20.1 female by female threads

## FLOW

- 100% full port for maximum flow

## HANDLE

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

## WORKING PRESSURE & TEMPERATURE

- 600 PSI (49 bar) up to 2", 450 PSI (30 bar) over 2" non-shock cold working pressure
- -4°F to +350°F (-20°C to +150°C)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

## UPON REQUEST

- Custom design

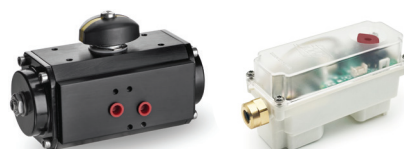
## APPROVED BY OR IN COMPLIANCE WITH

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

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

## OPTIONS

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



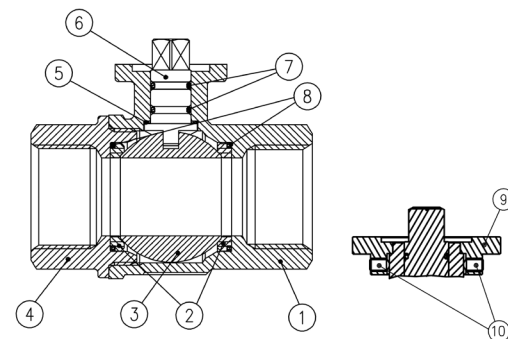
# s.6441 NPT XCES6441 - 5813

Each user should perform his own tests to find out the suitability for his particular application. RuB, Inc 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 RuB, Inc products with your specific field of use.

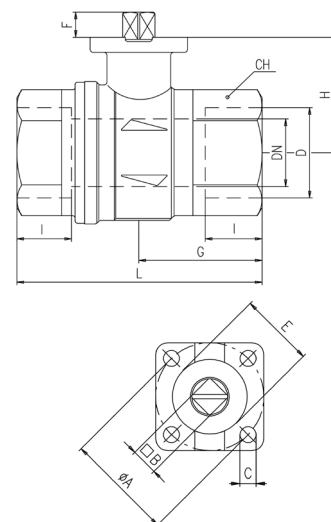


ACTUATION

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



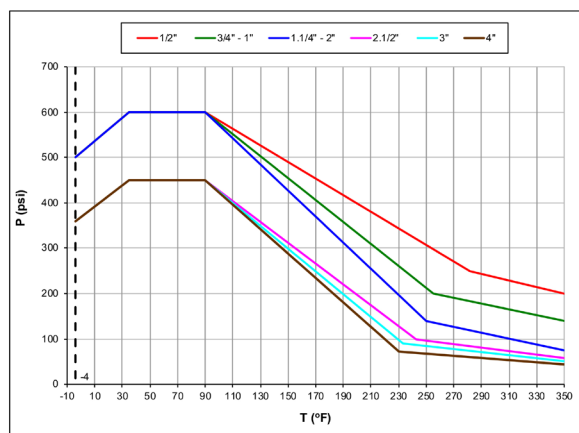
| Code                                         | S64D41 | S64E41 | S64F41 | S64G41 | S64H41 | S64I41 | S95L41AM | S95M41AM | S95N41AM |
|----------------------------------------------|--------|--------|--------|--------|--------|--------|----------|----------|----------|
| Size (inch)               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



## TORQUE FOR ACTUATOR SIZING LB-IN

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

## PRESSURE-TEMPERATURE CHART



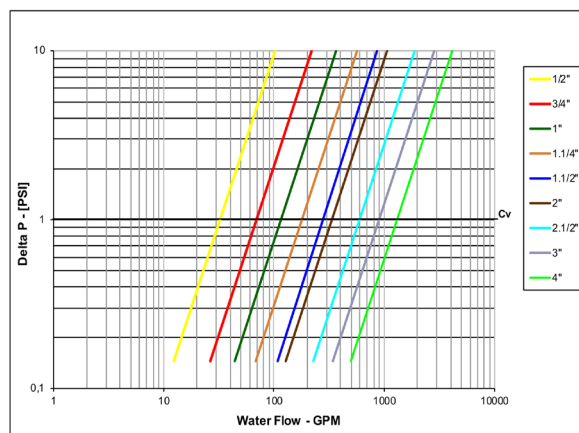
## TORQUE CORRECTION FACTORS

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



**WARNING:** This product can expose you to chemicals including lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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