



s.84 BSPT

Female/Female
1/4" - 4"



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 stresses 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

- EN10226-2, ISO 7/1, BS 21 BSPT taper female 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
- **WARNING:** do not exceed reasonable temperature and/or electrical load

WORKING PRESSURE & TEMPERATURE

- 40 bar (600 PSI) up to 2", 30 bar (450 PSI) over 2" non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- For use with dangerous fluids temperature rating is -20°C +60°C and pressure rating is 5 bar
- AS4617 Limitation for GAS: 2100 Kpa up to 2" and 1500 Kpa from 2 1/2" to 4" rated working pressure and 0°C / +60°C temperature
- **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

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

APPROVED BY OR IN COMPLIANCE WITH

- The Australian Gas Association (Australia)
- Factory Mutual (United States)
- BSI Group (United Kingdom)
- RoHS Compliant (EU)
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- DIN-DVGW (Germany) – MOP 5 B 0,1

NOTE: approvals apply to specific configurations/sizes only.

OPTIONS UP TO 2" SIZE

- Stem extension
- Oval lockable handle up to 2", round over 2" **1**
- **RuB** memory stop designed to be installed with our stubby handle **2**
- Stainless steel handle (1.4016 / AISI 430) **3**
- Patented locking device for valves up to 4"
- Stubby handle **4**
- T-handle **5**

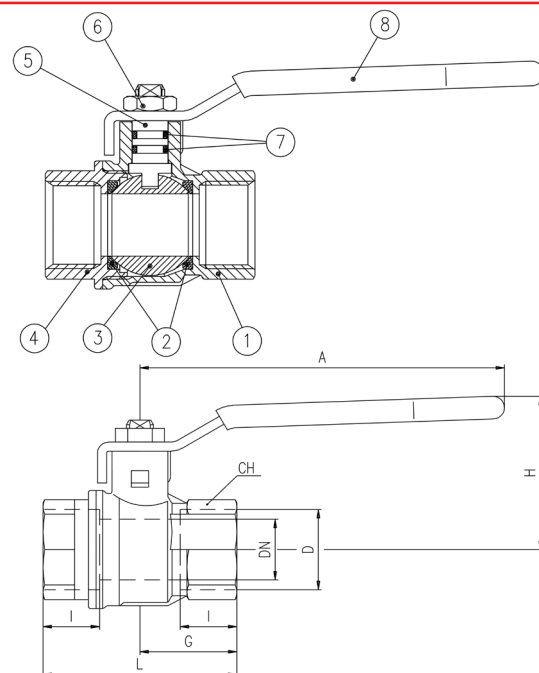


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Each user should perform his own tests to find out the suitability for his particular application. BONOMI INDUSTRIES makes no warranty, express or implied, as to the shape, fit or function of a product for any application. Contact us or consult with 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 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 | Yellow PVC coated Geomet® steel handle | 1 | DD11 (EN10111) |



1 1/4"-2" hollow ball

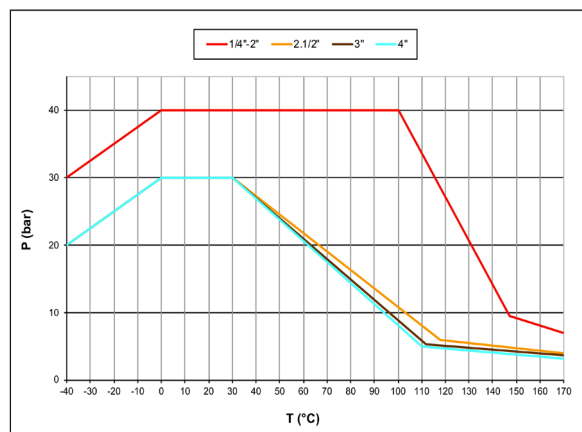
Compliant to CE 2014/68/UE product Equipment category III Module B+D

| Code | S84B50 | S84C50 | S84D50 | S84E50 | S84F50 | S84G50 | S84H50 | S84I50 | S84L50 | S84M50 | S84N50 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| D (inch) | 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) | 12 | 12 | 15.5 | 17 | 21 | 23 | 23 | 26.5 | 32 | 35 | 41.5 |
| L (mm) | 45 | 45 | 59 | 64 | 81 | 93 | 102 | 121 | 156 | 177 | 216 |
| G (mm) | 22.5 | 22.5 | 29.5 | 32 | 40.5 | 46.5 | 51 | 60.5 | 78 | 88.5 | 108 |
| 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 | 40 | 49 | 54 | 68.5 | 85 | 99 | 105 |

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

PRESSURE-TEMPERATURE CHART



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PRESSURE DROP CHART

