

## Features

- High quality full port DIN 3357 hot forged brass valve with probe holder for sensor
- Tapped bottom M10x1 connection for temperature detector and other devices at user's option
- Dual sealing system
- Silicone-free lubricant on all seals
- No metal-to-metal moving parts
- 24h 100% seal test guaranteed
- No maintenance ever required
- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- 30 bar (450 PSI) non-shock cold working pressure
- Temperature: -20°C to +170°C

## RS PRO Brass Full port Ball valve with probe holder for sensor, 2 way valve, threaded ISO228 female by female threads, red LEVER handle, 30 bar

RS Stock No.: 0690668



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

RS PRO range of brass manual ball valves with probe holder for sensor.

Manual ball valves are used to operate shut off valves which control water flow and pressure. These quarter turn brass full-bore ball valves have a lever style operating handle and are suitable for high temperature hot water services in domestic, commercial and industrial applications.

The probe holder allows direct insertion of sensors for measuring pressure or temperature, hence granting important cost saving: less number of components and less assembly operations, enhanced tightness, thanks to the elimination of possible leakage points.

Quick and easy assembly, maintenance and cleaning.

Applications:

- Measure of pressure or temperature in heat pumps installations:
- Measure of pressure or temperature in floor heating installations:
- Measure of pressure or temperature in firefighting installations:

Thanks to Silicone-free lubricant on all seals, s94 may be used in automotive plants and installations.

Available configurations:

|         |                   |
|---------|-------------------|
| 0690665 | BALL VALVE 1/2"   |
| 0690666 | BALL VALVE 3/4"   |
| 0690667 | BALL VALVE 1"     |
| 0690668 | BALL VALVE 1.1/4" |
| 0690670 | BALL VALVE 1.1/2" |
| 0690671 | BALL VALVE 2"     |

## General Specifications

|                     |                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------|
| Threaded Connection | ISO 228 parallel female by female threads                                                                     |
| Attachment Type     | Threaded                                                                                                      |
| Bottom              | Tapped bottom M10x1 connection for temperature detector and other devices at user's option                    |
| Body Material       | Brass                                                                                                         |
| Thread Size         | 1.1/4" – DN 32                                                                                                |
| Flow                | Full port to DIN 3357 for maximum flow                                                                        |
| Stem                | Blowout-proof nickel-plated brass stem<br>Maintenance-free, double FPM O-rings at the stem for maximum safety |
| Application         | Ball valve with probe holder allows direct insertion of sensors for measuring pressure or temperature         |

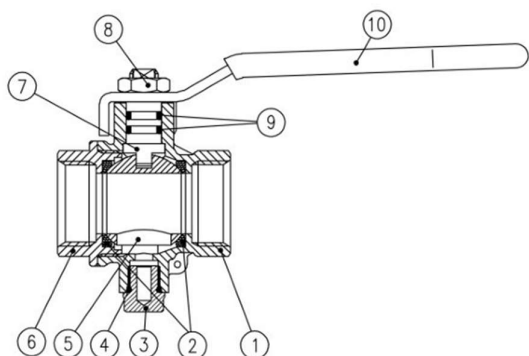
## Operation Specifications

|                          |                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Maximum working pressure | 30 bar (450 PSI) non-shock cold working pressure                                                                      |
| Working temperature      | - 20°C to +170°C (-4°F to +350°F)<br>WARNING: freezing of the fluid in the installation may severely damage the valve |

## Approvals

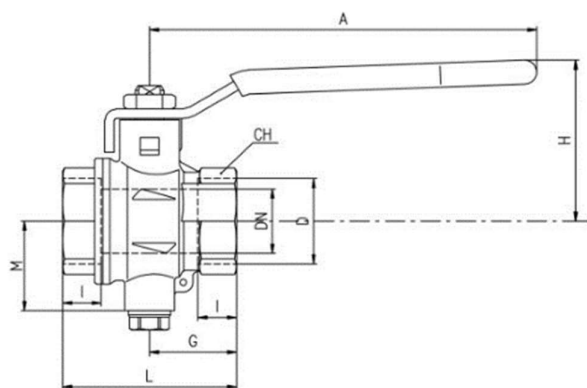
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|---------------------------|---------------------------------------------------------------------------------------------------------|
| Compliance/Certifications | GOST-R (Russia)<br>EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)<br>RoHS Compliant (EU) |
| PED directive             | According to 2014/68/UE module A: it cannot be used with dangerous gases in sizes larger than 25mm      |

## Mechanical Specifications



|    | PART DESCRIPTION                           | Q.TY | MATERIAL          |
|----|--------------------------------------------|------|-------------------|
| 1  | Nickel plated body (external treatment)    | 1    | CW617N            |
| 2  | Seat                                       | 2    | PTFE              |
| 3  | Cap                                        | 1    | CW617N            |
| 4  | O-Ring                                     | 1    | FPM               |
| 5  | Chrome plated ball                         | 1    | CW617N            |
| 6  | Nickel plated end-cap (external treatment) | 1    | CW617N            |
| 7  | Nickel plated stem O-ring design           | 1    | CW617N            |
| 8  | Geomet® nut                                | 1    | CB4FF (EN10263-2) |
| 9  | O-Ring                                     | 2    | FPM               |
| 10 | Red PVC coated Geomet® steel handle        | 1    | DD11 (EN10111)    |

1.1/4" - 2" hollow ball

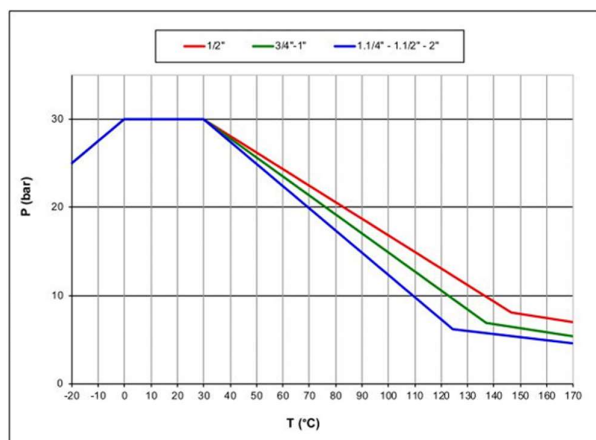


| D (inch)  | 1/2 | 3/4 | 1    | 1 1/4 | 1 1/2 | 2    |
|-----------|-----|-----|------|-------|-------|------|
| DN(mm)    | 15  | 20  | 25   | 32    | 40    | 50   |
| I (mm)    | 11  | 12  | 14   | 15    | 17    | 19   |
| L (mm)    | 50  | 54  | 67   | 77    | 90    | 106  |
| G (mm)    | 25  | 27  | 33.5 | 38.5  | 45    | 53   |
| M (mm)    | 32  | 30  | 32   | 38    | 44.3  | 51.3 |
| A (mm)    | 100 | 120 | 120  | 158   | 158   | 158  |
| H (mm)    | 43  | 50  | 54   | 73    | 79    | 86   |
| CH(mm)    | 25  | 31  | 40   | 49    | 54    | 68.5 |
| Kv (m³/h) | 28  | 36  | 62   | 79    | 124   | 178  |

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

Ball valves are marked CE on handle from 1.1/4" to 2" as follow:  
CE XXCODEXX Cat I-A

Pressure-temperature chart



Pressure drop chart

