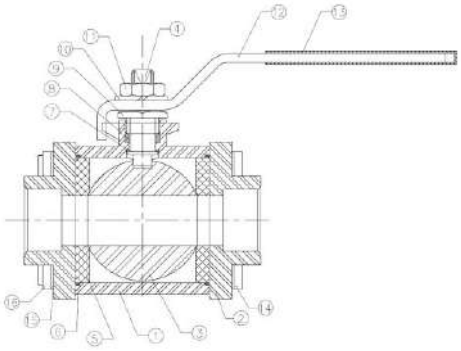
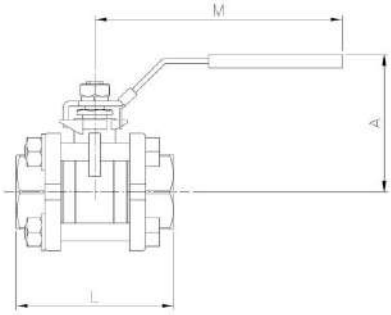
# Art2034S
# Carbon Steel 3-Piece Full Bore Ball Valve (Socket Weld)

## Features

*1. Full port ball valve, 3 piece.*
*2. Socket Weld ends according to ANSI B 16.11.*
*3. Made of Carbon Steel WCB.*
*4. Ball seats PTFE + 15 % G.F.*
*5. Stem gasket and Body seal made of PTFE.*
*6. Locking system.*
*7. Blow-out proof stem.*
*8. Max.. Working pressure 1000 WOG.*
*9. Working Temperature –25 ºC + 180 ºC.*






| Nº | Name | Material | Surface Treatment | Ref |
|---|---|---|---|---|
| 1 | Body | Carbon Steel | Phosphatized | |
| 2 | Cap | Carbon Steel | Phosphatized | |
| 3 | Ball | Stainless Steel 316 | | |
| 4 | Stem | Stainless Steel 316 | | |
| 5* | Seat Ball | PTFE + 15% Graphite | | 2838 |
| 6* | Gasket | PTFE | | 2838 |
| 7* | Thrust Washer | PTFE | | 2838 |
| 8* | Stem Packing | PTFE | | 2838 |
| 9 | Gland | Stainless Steel 304 | | |
| 10 | Spring Washer | Stainless Steel 304 | | |
| 11 | Nut | Stainless Steel 304 | | |
| 12 | Handle | Stainless Steel 304 | | |
| 13 | Handle Sleeve | Vinyl | | |
| 14 | Bolt | Stainless Steel 304 | | |
| 15 | Spring Washer | Stainless Steel 304 | | |
| 16 | Nut | Stainless Steel 304 | | |

* Available spare parts

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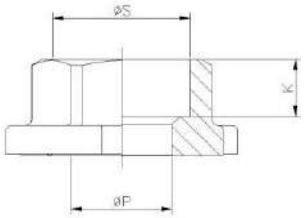
## General Dimensions

| Ref | Size | MOP | Bore | Dimensions (mm) | | | Weight (Kg) |
|---|---|---|---|---|---|---|---|
| | | | | A | L | M | |
| 2034S 02 | 1/4" | 1000 | 11.6 | 48 | 50 | 100 | 0.290 |
| 2034S 03 | 3/8" | 1000 | 11.6 | 48 | 50 | 100 | 0.290 |
| 2034S 04 | 1/2" | 1000 | 15 | 50 | 61 | 103 | 0.390 |
| 2034S 05 | 3/4" | 1000 | 20 | 60 | 70 | 127 | 0.610 |
| 2034S 06 | 1" | 1000 | 25 | 64 | 80 | 127 | 0.860 |
| 2034S 07 | 1 ¼" | 1000 | 32 | 79 | 93 | 154 | 1.370 |
| 2034S 08 | 1 ½" | 1000 | 40 | 85 | 102 | 154 | 2.040 |
| 2034S 09 | 2" | 1000 | 50 | 87 | 124 | 192 | 3.740 |
| 2034S 10 | 2 ½" | 1000 | 65 | 117 | 156 | 244 | 6.440 |
| 2034S 11 | 3" | 1000 | 80 | 125 | 179 | 244 | 10.200 |
| 2034S 12 | 4" | 1000 | 100 | 173 | 218 | 330 | 20.490 |

## Socket Weld Ends - ANSI B16.11




| Ref | Size | P | K | ØS |
|---|---|---|---|---|
| 2034S 02 | 1/4" | 11,6 | 10 | 14.1 |
| 2034S 03 | 3/8" | 11,6 | 10 | 17.6 |
| 2034S 04 | 1/2" | 15 | 10 | 21.7 |
| 2034S 05 | 3/4" | 20 | 14 | 27.1 |
| 2034S 06 | 1" | 25 | 14 | 33.8 |
| 2034S 07 | 1 ¼" | 32 | 15 | 42.6 |
| 2034S 08 | 1 ½" | 40 | 15 | 48.7 |
| 2034S 09 | 2" | 50 | 19 | 61.1 |
| 2034S 10 | 2 ½" | 65 | 21 | 73.8 |
| 2034S 11 | 3" | 80 | 24 | 89.8 |
| 2034S 12 | 4" | 100 | 35 | 115.5 |

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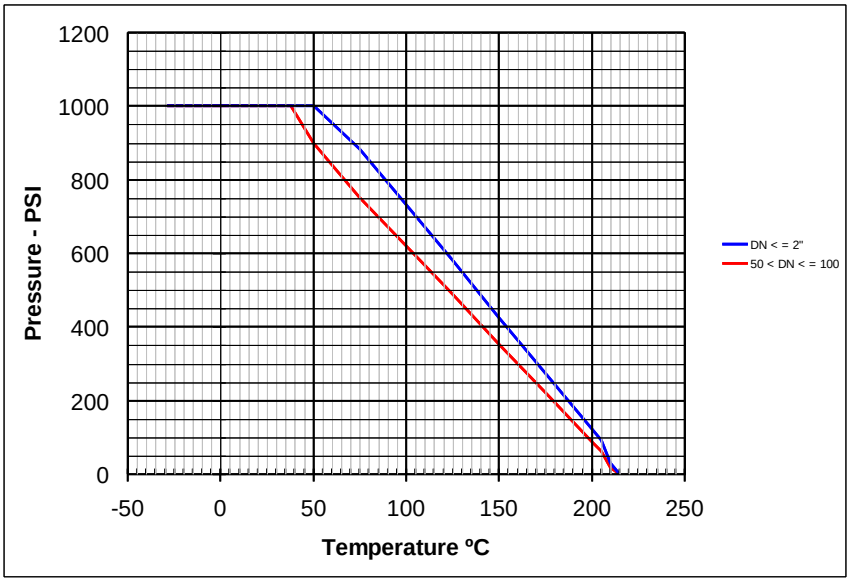
## Pressure/Temperature Rating




## Kv Values

Kv: Water flow rate in cubic meter per hour that will generate a 1 bar pressure drop across the valve.

| 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1 ¼" | 1 ½" | 2" | 2 ½" | 3" | 4" |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 10 | 24 | 43 | 83 | 130 | 205 | 340 | 520 | 1100 | 1820 |

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