

Forged Steel Valves



Tel: +44 (0) 1902 63 72 63
Email: process@flowtech.co.uk
www.flowtech.co.uk

PROCESS &
INSTRUMENTATION
DIVISION

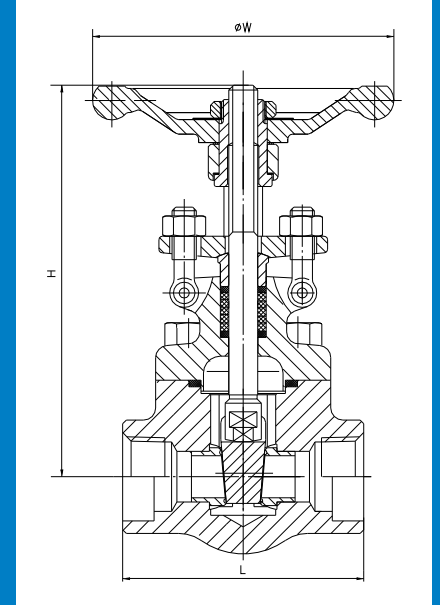
Forged Steel Gate Valves

Features:

- Designed to API 602 and ASME B16.34
- Tested to API 598
- Marking EN 19
- Class 800 rated
- Reduced bore. Full bore option available on request
- NPT ends to ANSI B1.20.1
- SW ends to ANSI B6.16.11

Options Available:

- NACE MR0103 or HIC/SSCC
- Extended body or extended stem/bonnet
- Jacketed
- Cryogenic design
- With a pup piece, locking device, padlock, position indicator, limit switch or actuator
- Fugitive emission
- Free of oil and water



° Working Temperature:
-29°C to +425°C



Maximum Working Pressure:
138 bar

| Size | DN | L | H | ØW | Kg |
|--------|----|-----|-----|-----|------|
| 1/2" | 15 | 79 | 151 | 100 | 2.20 |
| 3/4" | 20 | 92 | 158 | 100 | 2.40 |
| 1" | 25 | 110 | 185 | 125 | 4.20 |
| 1.1/4" | 32 | 120 | 239 | 160 | 6 |
| 1.1/2" | 40 | 120 | 243 | 160 | 7 |
| 2" | 50 | 140 | 279 | 180 | 11 |

| 0905 Part No. | | Size |
|-------------------|--------------------|--------|
| NPT | Socket Weld | |
| GA800C-12 | GA800C-12S | 1/2" |
| GA800C-34 | GA800C-34S | 3/4" |
| GA800C-1 | GA800C-1S | 1" |
| GA800C-114 | GA800C-114S | 1.1/4" |
| GA800C-112 | GA800C-112S | 1.1/2" |
| GA800C-2 | GA800C-2S | 2" |
| Tech Sheet 6075 | | |

| Part Description | Material |
|------------------|----------------------------------|
| Body | A105, Trim 5 |
| Seat | A182 F6A + STL |
| Gate | |
| Stem | AISI 410 |
| Gasket | AISI 304 + Graphite |
| Bonnet | A105 |
| Bolt | A193 B7 |
| Packing | Flexible Graphite + Carbon Fibre |
| Pin | AISI 420 |
| Packing Gland | |
| Eye Bolt | A193 B8 |
| Gland Flange | A105 |
| Hex Nut | A194 8 |
| Washer | AISI 410 |
| Yoke Nut | |
| Handwheel | A197 |
| Name Plate | Aluminium |

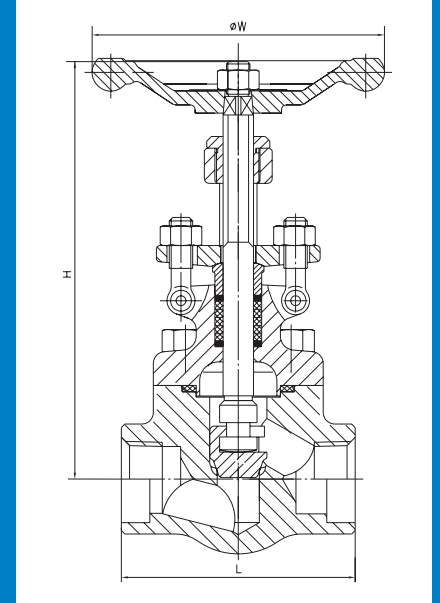
Forged Steel Globe Valves

Features:

- Designed to BS 5352 and ASME B16.34
- Tested to API 598
- Marking EN 19
- Class 800 rated
- Reduced bore. Full bore option available on request
- NPT ends to ANSI B1.20.1
- SW ends to ANSI B6.16.11

Options Available:

- NACE MR0103 or HIC/SSCC
- Extended body or extended stem/bonnet
- Y-pattern forged steel globe valve design
- Angle forged steel globe valve design
- Jacketed
- Cryogenic design
- With a pup piece, locking device, padlock, position indicator, limit switch or actuator
- Fugitive emission
- Free of oil and water



° Working Temperature:
-29°C to +425°C



Maximum Working Pressure:
138 bar



| Size | DN | L | H | ØW | Kg |
|--------|----|-----|-----|-----|-------|
| 1/2" | 15 | 79 | 158 | 100 | 2.20 |
| 3/4" | 20 | 92 | 163 | 100 | 2.40 |
| 1" | 25 | 110 | 193 | 125 | 4.20 |
| 1.1/4" | 32 | 152 | 250 | 160 | 6 |
| 1.1/2" | 40 | 152 | 250 | 160 | 8 |
| 2" | 50 | 172 | 291 | 180 | 12.80 |

| 0905 | Part No. | | Size |
|------|------------|-------------|--------|
| | NPT | Socket Weld | |
| | GL800C-12 | GL800C-12S | 1/2" |
| | GL800C-34 | GL800C-34S | 3/4" |
| | GL800C-1 | GL800C-1S | 1" |
| | GL800C-114 | GL800C-114S | 1.1/4" |
| | GL800C-112 | GL800C-112S | 1.1/2" |
| | GL800C-2 | GL800C-2S | 2" |

Tech Sheet 6014

| Part Description | Material |
|------------------|----------------------------------|
| Body | A105, Trim 5 |
| Disc | AISI 420 + STL |
| Stem | AISI 410 |
| Gasket | AISI 304 + Graphite |
| Bonnet | A105 |
| Bolt | A193 B7 |
| Packing | Flexible Graphite + Carbon Fibre |
| Pin | AISI 420 |
| Packing Gland | AISI 420 |
| Eye Bolt | A193 B8 |
| Gland Flange | A105 |
| Hex Nut | A194 8 |
| Yoke Nut | AISI 410 |
| Handwheel | A197 |
| Name Plate | Aluminium |
| Seat | A105 + STL |

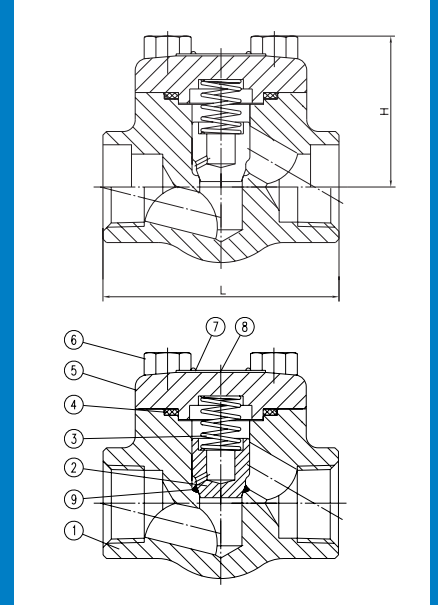
Forged Steel Check Valves

Features:

- Designed to BS 5352, MSS SP 118 and ASME B16.34
- Tested to API 598
- Marking EN 19
- Class 800 rated
- Reduced bore. Full bore option available on request
- NPT ends to ANSI B1.20.1
- SW ends ANSI B6.16.11

Options Available:

- NACE MR0103 or HIC/SSCC
- Y-pattern forged steel check valve design
- With a pup piece
- Free of oil and water
- Jacketed



° Working Temperature:
-29°C to +425°C



Maximum Working Pressure:
138 bar



| Size | DN | L | H | Kg |
|--------|----|-----|-----|-------|
| 1/2" | 15 | 79 | 51 | 1.65 |
| 3/4" | 20 | 92 | 55 | 1.80 |
| 1" | 25 | 110 | 68 | 3.20 |
| 1.1/4" | 32 | 152 | 97 | 5.10 |
| 1.1/2" | 40 | 152 | 97 | 6.20 |
| 2" | 50 | 172 | 103 | 10.20 |

| Part Description | Material |
|------------------|---------------------|
| 1 Body | A105, Trim 5 |
| 2 Piston Disc | A276 420 |
| 3 Spring | 17-4 PH |
| 4 Gasket | AISI 304 + Graphite |
| 5 Bonnet | A105 |
| 6 Bolt | A193 B7 |
| 7 Ribet | A182 F304 |
| 8 Name Plate | Aluminium |
| 9 Seat | A105 + STL |

| Part No. | | Size |
|-----------|-------------|--------|
| NPT | Socket Weld | |
| C800C-12 | C800C-12S | 1/2" |
| C800C-34 | C800C-34S | 3/4" |
| C800C-1 | C800C-1S | 1" |
| C800C-114 | C800C-114S | 1.1/4" |
| C800C-112 | C800C-112S | 1.1/2" |
| C800C-2 | C800C-2S | 2" |

Tech Sheet 6099

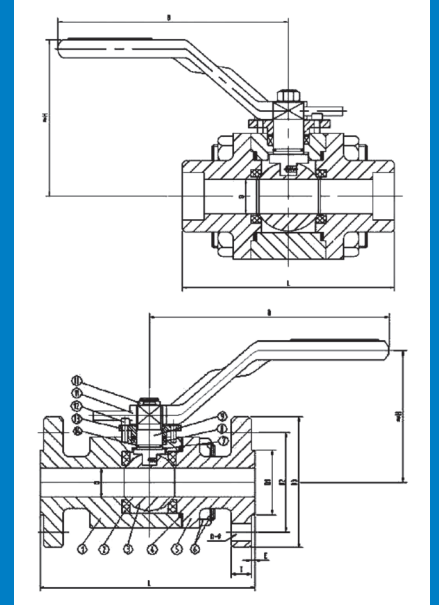
Forged Steel Ball Valves

Features:

- Designed to API 608, ISO 17292, API 6D or ASME B16.34
- Tested to API 598 or API 6D
- Marking MSS SP25
- Full bore or reduced bore
- 2 piece, 3 piece or side entry
- Anti-static, blowout proof stem and fire safe approved
- Direct mount ISO 5211
- Locking device
- SW ends to ASME B16.11
- BW ends to ASME B16.25
- NPT ends to ASME B1.20.1
- Flanges (RF/RTJ) to ASME B16.5

Options Available:

- NACE MR0175, NACE MR0103 or HIC/SSCC
- Single body double ball forged ball valve (DEB)
- Jacketed
- Cryogenic design
- Extended stem/bonnet
- With a pup piece, spring return lever, padlock or actuator
- Fugitive emission
- Free of oil and water



3 Piece Class 800-1500 Floating Ball Valve

| Size | L | D | H | B | Kg |
|--------|-----|-------|-----|-----|------|
| 1/2" | 92 | 12.50 | 66 | 170 | 1.40 |
| 3/4" | 112 | 19 | 72 | 170 | 2.10 |
| 1" | 126 | 24 | 100 | 170 | 3.70 |
| 1.1/2" | 152 | 38 | 112 | 250 | 8.40 |
| 2" | 176 | 49 | 122 | 250 | 15 |

| | Part Description | Material |
|----|------------------|-------------------|
| 1 | Body | ASTM A105 |
| 2 | Seat | PTFE |
| 3 | Ball | A182 F304 |
| 4 | Gasket | 304 SS + Graphite |
| 5 | Gap | ASTM A105 |
| 6 | Bolt/Nut | A193 B7/A194 2H |
| 7 | Thrust Washer | RPTFE |
| 8 | Packing | Graphite |
| 9 | Stem | A182 F304 |
| 10 | Nut | A194 2H |
| 11 | Handle | WCB |
| 12 | Bolt | 1025 |
| 13 | Gland Flange | ASTM A105 |
| 14 | O-Ring | Viton |
| 15 | Spring | 304 SS |

Forged Steel Ball Valves



2 Piece Class 150 Floating Ball Valve

| Size | L | D | D1 | D2 | D3 | H | Kg |
|--------|-----|----|----|--------|-----|-----|-------|
| 1/2" | 108 | 13 | 35 | 60.50 | 95 | 70 | 2.50 |
| 3/4" | 117 | 19 | 43 | 70 | 115 | 77 | 2.80 |
| 1" | 127 | 25 | 51 | 79.50 | 125 | 102 | 3.80 |
| 1.1/2" | 165 | 38 | 73 | 98.50 | 155 | 113 | 7.50 |
| 2" | 178 | 49 | 92 | 120.50 | 165 | 127 | 10.50 |

2 Piece Class 600 Floating Ball Valve

| Size | L | D | D1 | D2 | D3 | H | Kg |
|--------|-----|----|----|--------|-----|-----|----|
| 1/2" | 165 | 13 | 35 | 66.50 | 95 | 70 | 4 |
| 3/4" | 190 | 19 | 43 | 82.50 | 115 | 77 | 5 |
| 1" | 216 | 25 | 51 | 89 | 125 | 102 | 8 |
| 1.1/2" | 241 | 38 | 73 | 114.50 | 155 | 113 | 14 |
| 2" | 292 | 49 | 92 | 127 | 165 | 127 | 22 |

2 Piece Class 300 Floating Ball Valve

| Size | L | D | D1 | D2 | D3 | H | Kg |
|--------|-----|----|----|--------|-----|-----|-------|
| 1/2" | 140 | 13 | 35 | 66.50 | 95 | 70 | 2.80 |
| 3/4" | 152 | 19 | 43 | 82.50 | 115 | 77 | 4 |
| 1" | 165 | 25 | 51 | 89 | 125 | 102 | 5.30 |
| 1.1/2" | 190 | 38 | 73 | 114.50 | 155 | 113 | 10.80 |
| 2" | 216 | 49 | 92 | 127 | 165 | 127 | 15 |

2 Piece Class 900-1500 Floating Ball Valve

| Size | L | D | D1 | D2 | D3 | H | Kg |
|--------|-----|----|----|--------|-----|-----|------|
| 1/2" | 216 | 13 | 35 | 82.50 | 120 | 82 | 7 |
| 3/4" | 229 | 19 | 43 | 89 | 130 | 107 | 9.80 |
| 1" | 254 | 25 | 51 | 101.50 | 150 | 123 | 15 |
| 1.1/2" | 305 | 38 | 73 | 124 | 180 | 136 | 28 |
| 2" | 368 | 49 | 92 | 165 | 215 | 149 | 42 |