

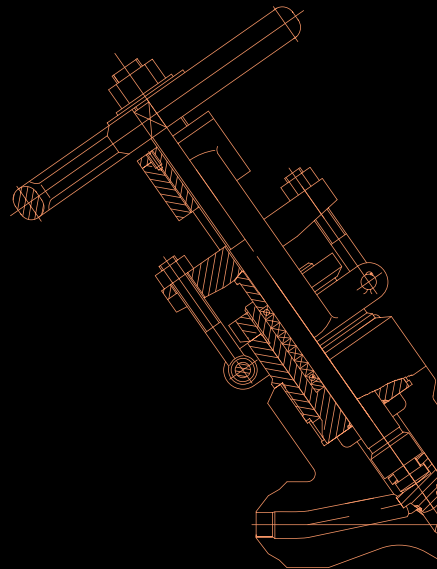
GATE, GLOBE & CHECK VALVES - FORGED STEEL

SHORT VERSION

[Click here](#) complete version of this catalogue



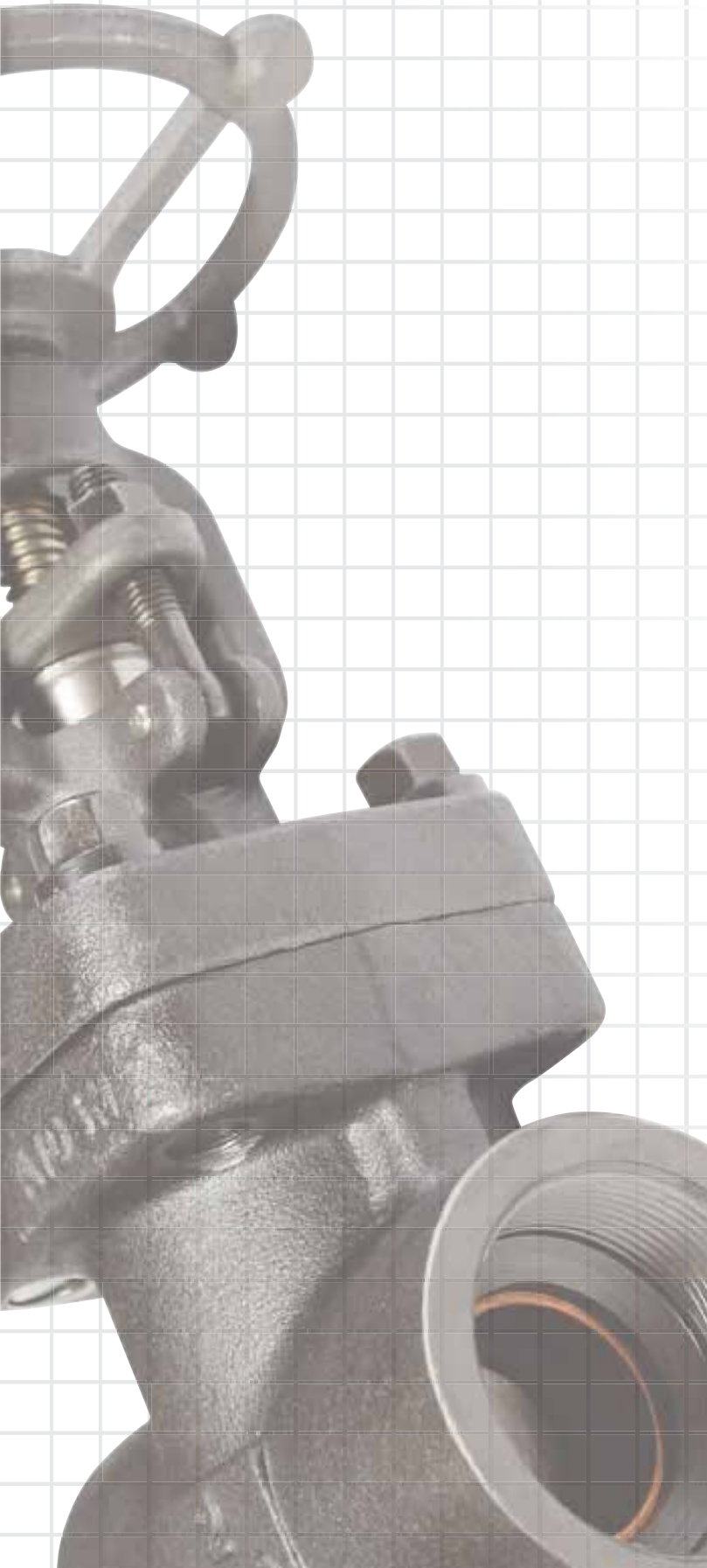
**AUSTRALIAN
PIPELINE VALVE®**



ISO 15848-1 Class C02
Fugitive Emission Certified

www.australianpipelinevalve.com.au

QUALITY VALVE MANUFACTURER



QUALITY COMMITMENT

Quality is Our First Priority.

Consistent product quality and a proven track record makes Australian Pipeline Valve a dependable choice where total reliability is the number one concern.

Since its founding, APV's philosophy has been focused on quality. Our valves are manufactured in full compliance to worldwide standards (such as ASME/ANSI, API, EN, ISO, BS, AS).



**AUSTRALIAN
PIPELINE VALVE®**

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* This version excludes some of these pages, refer to full version at website.



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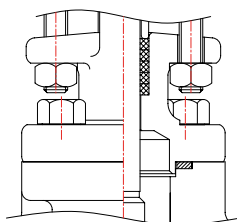
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STANDARD MATERIAL SPECIFICATION

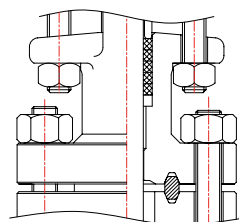
| Material Part Name | Carbon Steel | Low-Temp Carbon Steel | Alloy Steel | Stainless Steel | Special Alloys |
|-------------------------|--|--|---|--|--|
| Body Bonnet Cover | A105N | A350/LF2 | A182/F1 A182/F5 A182/F9 A182/F11 A182/F22 | A182/F304 A182/304L A182/F316 A182/F316L A182/F317 A182/F317L A182/F321 A182/F347 | Monel Inconel Hastelloy |
| Stem Seat Ring * | A276/CA15 A276/304 A276/316 | A276/410 A276/304 A276/316 | A276/410 A276/304 A276/316 | A276/304 A276/316 A276/321 A276/317 A276/347 | Monel Inconel Hastelloy |
| Wedge / Disc * | A217/CA15 A351/CF8 A351/CF8M | A217/CA15 A351/CF8 A351/CF8M | A217/CA15 A351/CF8 A351/CF8M | A351/CF8 A351/CF8M A351/CF3M A351/CF8C A351/CG8M | Monel Inconel Hastelloy |
| Yoke Sleeve Bush | A582-416 | A582-416 | A582-416 | A582-416 | A582-416 |
| Gland Flange | A105N | A105N | A105N | A182/F304 | A182/F304 |
| Gland Packing | Graphite | Graphite | Graphite | Graphite | Graphite |
| Bonnet Bolt | A193/B7 | A320/L7 | A193/B16 | A193/B8M | A193/B8M |
| Gland Bolt | A193/B8 | A193/B8 | A193/B16 | A193/B8M | A193/B8M |
| Gland Nut | A194/2H | A194/2H | A194/2H | A194/8 | A194/8 |
| Gland | A276/410 | A276/410 | A276/410 | A276/304 | A276/304 |
| Handwheel | Carbon Steel | Carbon Steel | Carbon Steel | Carbon Steel | Carbon Steel |
| Gasket | A204/304+Graphite A240/316+Graphite | A204/304+Graphite A240/316+Graphite | A204/304+Graphite A240/316+Graphite | A204/304+Graphite A240/316+Graphite | A204/304+Graphite A240/316+Graphite |
| Handwheel Nut | Carbon Steel | Carbon Steel | Carbon Steel | Carbon Steel | Carbon Steel |
| Name Plate | Aluminium | Aluminium | Aluminium | A240/304 | A240/304 |

* + Stellite hard faced optional

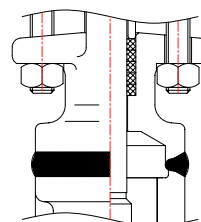
Bolted Bonnet
(Spiral Wound Type)



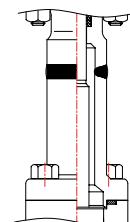
Bolted Bonnet
(Ring Type Joint)



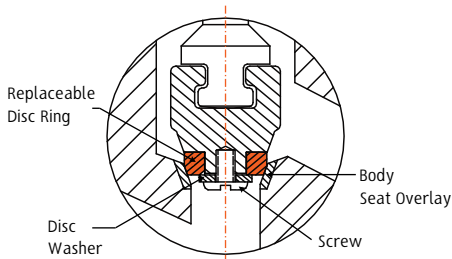
Welded Bonnet
(Full Penetration Welding)



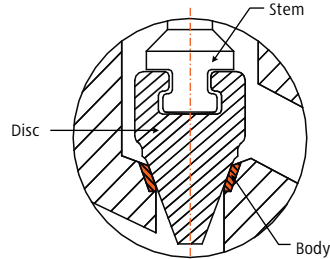
Extended Bonnet
(Full Penetration Welding)



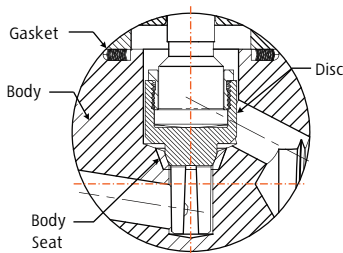
SPECIAL SEATING



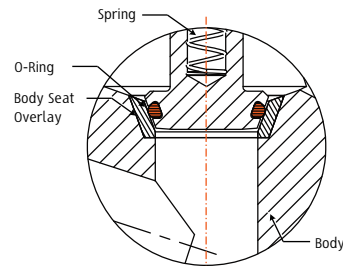
Elastomeric or Plastic Seat Insert
(Globe Valves)



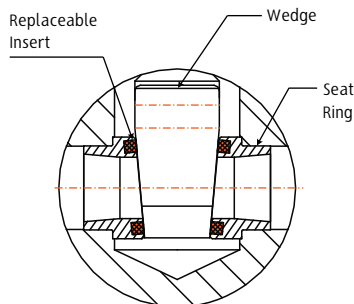
Needle Point Metering Plug
(Globe Valve)



Flow Control Nozzle
(Globe Valves)

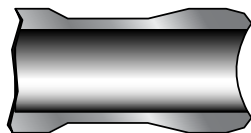


Elastomeric Seat Insert
(Piston Check Valves)

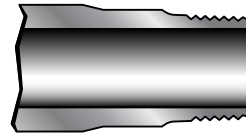


Elastomeric or Plastic Seat Insert
(Gate Valves)

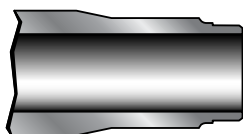
SPECIAL ENDS



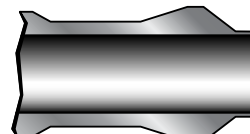
Integrally Reinforced
Contoured End



Male Threaded



Male Socket Weld

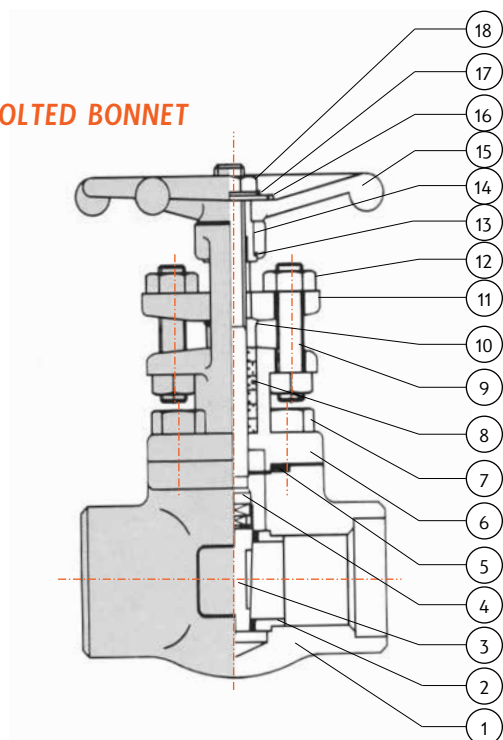


Integrally Reinforced
Lip End

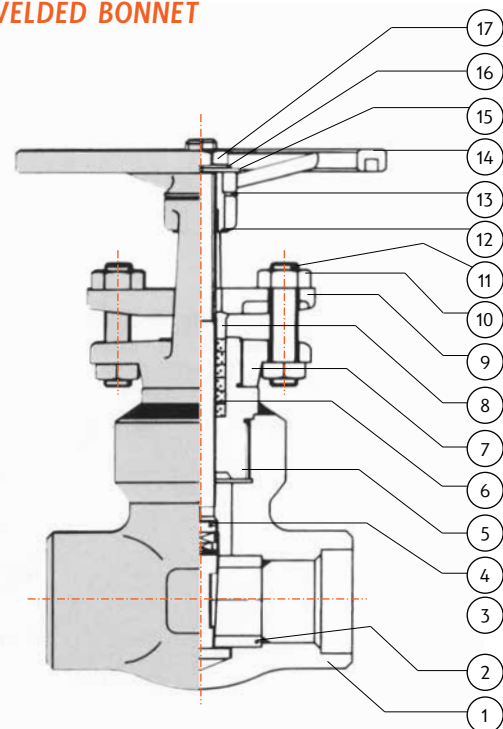
SCREWED & WELD END GATE VALVES

800 TO 2500 CLASS

BOLTED BONNET



WELDED BONNET



FEATURES

- Construction - API 602 & ANSI/ASME B16.34
- End Connections - Socket Weld : ANSI/ASME B16.11
Thread : ANSI/ASME B1.20.1
Butt Weld : ANSI/ASME B16.25
- Inspection & Test - API 598
- Stuffing Box Smoothness - $\leq Ra\ 3.2\ \mu m$ as per API 602
- Stem Smoothness - $\leq Ra\ 0.80\ \mu m$ as per API 602

MATERIALS

| No. | Part Name |
|-----|------------------|
| 1 | Body |
| 2 | Seat Ring |
| 3 | Wedge |
| 4 | Stem |
| 5 | Gasket |
| 6 | Bonnet |
| 7 | Bonnet Bolt |
| 8 | Gland Packing |
| 9 | Gland Bolt |
| 10 | Gland |
| 11 | Gland Flange |
| 12 | Gland Nut |
| 13 | Thrust Washer |
| 14 | Yoke Sleeve |
| 15 | Handwheel |
| 16 | Name Plate |
| 17 | Handwheel Washer |
| 18 | Handwheel Nut |

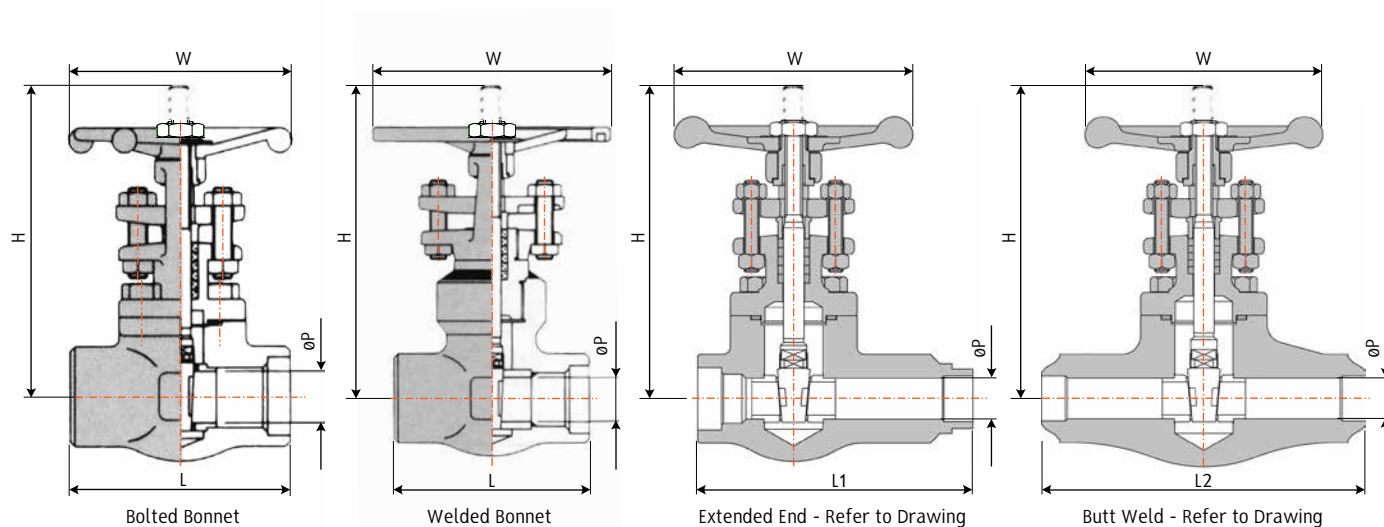
MATERIALS

| No. | Part Name |
|-----|---------------|
| 1 | Body |
| 2 | Seat Ring |
| 3 | Wedge |
| 4 | Stem |
| 5 | Bonnet |
| 6 | Gland Packing |
| 7 | Yoke |
| 8 | Gland |
| 9 | Gland Flange |
| 10 | Gland Nut |
| 11 | Gland Bolt |
| 12 | Yoke Sleeve |
| 13 | Thrust Washer |
| 14 | Handwheel |
| 15 | Name Plate |
| 16 | Tooth Washer |
| 17 | Handwheel Nut |



ISO 15848-1 Class CO2
Fugitive Emission Certified

SCREWED & WELD END GATE VALVES 800 TO 2500 CLASS



DIMENSIONS BOLTED & WELDED BONNET CLASS 800

| Regular Port (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | | 2-1/2" | |
|-------------------|------|------|------|------|------|------|------|------|------|------|--------|-------|--------|-------|--------|-------|--------|-------|
| Full Port (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 1-1/2" | | 2" | |
| L (mm/in) | 76 | 3.0 | 76 | 3.0 | 79 | 3.11 | 92 | 3.62 | 111 | 4.37 | 120 | 4.72 | 120 | 4.72 | 140 | 5.51 | 220 | 8.66 |
| W (mm/in) | 84 | 3.3 | 84 | 3.3 | 100 | 3.93 | 100 | 3.93 | 125 | 4.92 | 160 | 5.39 | 160 | 6.3 | 180 | 7.08 | 200 | 7.87 |
| H (mm/in) | 144 | 5.67 | 144 | 5.67 | 161 | 6.33 | 163 | 6.41 | 196 | 7.72 | 251 | 8.86 | 251 | 9.88 | 290 | 11.4 | 333 | 13.11 |
| P (mm/in) | 6.4 | 0.25 | 9.5 | 0.38 | 10.5 | 0.41 | 13.5 | 0.53 | 17 | 0.67 | 23.5 | 0.93 | 29 | 1.14 | 36 | 1.41 | 46.5 | 1.83 |
| Wt (kgs/lbs) | 1.5 | 3.31 | 1.5 | 3.31 | 1.5 | 3.31 | 2.2 | 4.9 | 2.8 | 6.4 | 5.60 | 12.35 | 5.60 | 12.35 | 8.5 | 18.74 | 13 | 28.66 |
| Typical Cv Factor | 2.0 | | 4.6 | | 5.6 | | 12.0 | | 23.5 | | 48.0 | | 78.0 | | 105.0 | | 200.0 | |

DIMENSIONS BOLTED & WELDED BONNET FULL PORT CLASS 1500

| Full Port (in) | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
|-------------------|------|------|------|------|------|------|--------|-------|--------|-------|-------|------|
| L (mm/in) | 110 | 4.38 | 127 | 5.0 | 155 | 6.13 | 210 | 8.25 | 210 | 8.25 | 229 | 9.0 |
| W (mm/in) | 140 | 5.5 | 160 | 6.25 | 200 | 7.88 | 230 | 9.07 | 230 | 9.07 | 250 | 9.82 |
| H (mm/in) | 224 | 7.88 | 253 | 9.94 | 317 | 12.5 | 337 | 14.88 | 377 | 14.88 | 458 | 18.0 |
| P (mm/in) | 11 | 0.44 | 16 | 0.63 | 20 | 0.82 | 26 | 1.07 | 32 | 1.25 | 43 | 1.69 |
| Wt (kgs/lbs) | 5.0 | 11.0 | 7.0 | 15.4 | 10.0 | 22.0 | 18.2 | 40.1 | 18.0 | 39.7 | 30.0 | 66.1 |
| Typical Cv Factor | 10.6 | | 24.5 | | 38.0 | | 56.0 | | 80.0 | | 197.0 | |

For 'Standard Port' refer to drawing.

DIMENSIONS BOLTED & WELDED BONNET FULL PORT CLASS 2500

| Valve Size (in) | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
|-------------------|------|-------|------|-------|------|-------|--------|-------|--------|-------|------|-------|
| L (mm/in) | 127 | 5 | 155 | 6.102 | 210 | 8.267 | 229 | 9.015 | 229 | 9.015 | 235 | 9.251 |
| W (mm/in) | 160 | 6.299 | 200 | 7.874 | 230 | 9.055 | 250 | 9.84 | 250 | 9.84 | 300 | 11.81 |
| H (mm/in) | 253 | 9.96 | 317 | 12.48 | 377 | 14.84 | 458 | 18.03 | 458 | 18.03 | 470 | 18.5 |
| P (mm/in) | 11 | 0.433 | 16 | 0.629 | 20 | 0.787 | 26 | 1.023 | 28.5 | 1.122 | 38.1 | 1.69 |
| Wt (kgs/lbs) | 8.0 | 17.6 | 11.0 | 24.2 | 19.0 | 41.8 | 34.0 | 74.8 | 32.0 | 70.4 | 45.0 | 99.0 |
| Typical Cv Factor | 5.6 | | 10.6 | | 24.5 | | 59.8 | | 68.0 | | 95.0 | |

For 'Standard Port' refer to drawing.

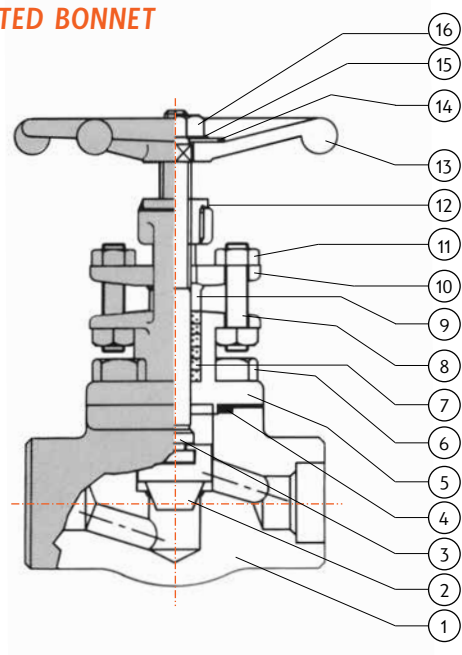
Dimensions are indicative and vary according to standard, port design and body material. Refer to as-built drawing.

SCREWED & WELD END GLOBE VALVES 800 TO 2500 CLASS

FEATURES

- Construction - API 602, BS 5352 & ASME B16.34 (ISO 15761)
- End Connections - Socket Weld : ANSI/ASME B16.11
Thread : ANSI/ASME B1.20.1
Butt Weld : ANSI/ASME B16.25
- Inspection & Test - API 598 / BS 5146
- Stuffing Box
Smoothness - $\leq Ra\ 3.2\ \mu m$ as per API 602
- Stem Smoothness - $\leq Ra\ 0.80\ \mu m$ as per API 602

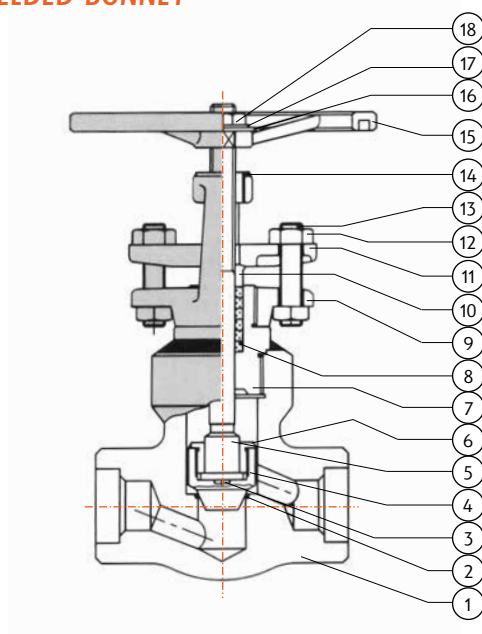
BOLTED BONNET



MATERIALS

| No. | Part Name |
|-----|------------------|
| 1 | Body |
| 2 | Disc |
| 3 | Stem |
| 4 | Gasket |
| 5 | Bonnet |
| 6 | Bonnet Bolt |
| 7 | Gland Packing |
| 8 | Gland Bolt |
| 9 | Gland |
| 10 | Gland Flange |
| 11 | Gland Nut |
| 12 | Yoke Bush |
| 13 | Handwheel |
| 14 | Name Plate |
| 15 | Handwheel Washer |
| 16 | Handwheel Nut |

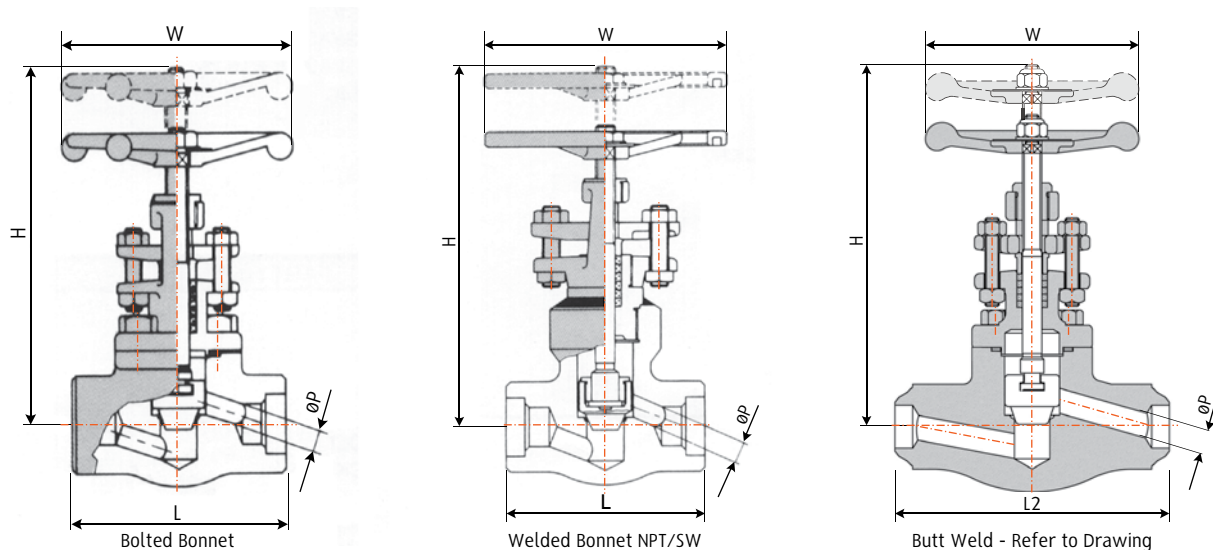
WELDED BONNET



MATERIALS

| No. | Part Name |
|-----|---------------|
| 1 | Body |
| 2 | Seat |
| 3 | Pad |
| 4 | Disc |
| 5 | Stem |
| 6 | Disc Nut |
| 7 | Bonnet |
| 8 | Gland Packing |
| 9 | Yoke |
| 10 | Gland |
| 11 | Gland Flange |
| 12 | Gland Nut |
| 13 | Gland Bolt |
| 14 | Yoke Bush |
| 15 | Handwheel |
| 16 | Name Plate |
| 17 | Tooth Washer |
| 18 | Handwheel Nut |

SCREWED & WELD END GLOBE VALVES 800 TO 2500 CLASS



DIMENSIONS BOLTED & WELDED BONNET CLASS 800

| Regular Port (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | | 2-1/2" | |
|-------------------|------|------|------|------|------|------|------|------|------|------|--------|-------|--------|-------|--------|-------|--------|-------|
| Full Port (in) | 1/4" | | 3/8" | | | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
| L (mm/in) | 76 | 3.0 | 76 | 3.0 | 76 | 3.0 | 92 | 3.62 | 104 | 4.09 | 120 | 5.51 | 152 | 5.98 | 172 | 6.77 | 220 | 8.66 |
| W (mm/in) | 84 | 3.3 | 84 | 3.3 | 84 | 3.3 | 100 | 3.94 | 125 | 4.92 | 137 | 5.39 | 160 | 6.30 | 180 | 7.08 | 200 | 7.87 |
| H (mm/in) | 144 | 5.67 | 144 | 5.67 | 144 | 5.67 | 164 | 6.45 | 203 | 7.99 | 225 | 8.86 | 260 | 10.23 | 300 | 11.81 | 323 | 12.71 |
| P (mm/in) | 6.4 | 0.25 | 9.5 | 0.38 | 9.5 | 0.38 | 12.5 | 0.5 | 18.5 | 0.73 | 23.5 | 0.93 | 23.5 | 0.93 | 36 | 1.41 | 44 | 1.73 |
| Wt (kgs/lbs) | 1.5 | 3.31 | 1.5 | 3.31 | 1.5 | 3.31 | 2.2 | 4.9 | 2.8 | 6.4 | 5.60 | 12.35 | 5.60 | 12.35 | 8.5 | 18.74 | 15.0 | 33.06 |
| Typical Cv Factor | 1.0 | | 1.7 | | 1.8 | | 3.6 | | 6.5 | | 11.5 | | 17.0 | | 21.0 | | 35.0 | |

DIMENSIONS BOLTED & WELDED BONNET FULL PORT CLASS 1500

| Valve Size (in) | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
|---------------------|------|------|------|-------|------|-------|--------|-------|--------|-------|------|------|
| L (mm/in) | 110 | 4.38 | 127 | 5.0 | 155 | 6.13 | 210 | 8.25 | 210 | 8.25 | 229 | 9.0 |
| W (mm/in) | 140 | 5.5 | 160 | 6.25 | 200 | 7.88 | 230 | 9.07 | 230 | 9.07 | 250 | 9.82 |
| H (mm/in) | 230 | 9.03 | 261 | 10.25 | 314 | 12.38 | 377 | 14.88 | 377 | 14.88 | 459 | 18.1 |
| P (mm/in) | 12 | 0.44 | 16 | 0.63 | 20 | 0.82 | 26 | 1.07 | 26 | 1.07 | 43 | 1.69 |
| Wt (kgs/lbs) | 5.0 | 11.0 | 6.0 | 13.2 | 8.0 | 17.6 | 15.0 | 33.1 | 15.0 | 33.1 | 26.0 | 57.3 |
| Full Port Cv Factor | 2.7 | | 5.9 | | 11.2 | | 14.0 | | 19.6 | | 23.3 | |

For 'Standard Port' refer to drawing.

DIMENSIONS BOLTED & WELDED BONNET FULL PORT CLASS 2500

| Valve Size (in) | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
|---------------------|------|--------|------|--------|------|--------|--------|-------|--------|-------|------|-------|
| L (mm/in) | 127 | 5 | 155 | 6.102 | 210 | 8.267 | 229 | 9.015 | 229 | 9.015 | 235 | 9.251 |
| W (mm/in) | 160 | 6.299 | 200 | 7.874 | 230 | 9.055 | 250 | 9.842 | 250 | 9.842 | 300 | 11.81 |
| H (mm/in) | 261 | 10.275 | 314 | 12.362 | 377 | 14.842 | 459 | 18.07 | 459 | 18.07 | 470 | 18.5 |
| P (mm/in) | 11 | 0.433 | 13 | 0.51 | 18 | 0.708 | 23 | 0.905 | 26 | 1.023 | 35 | 1.377 |
| Wt (kgs/lbs) | 8 | 17.6 | 10 | 22 | 17 | 37.4 | 28 | 61.6 | 28.0 | 61.6 | 43 | 94.6 |
| Full Port Cv Factor | 2.7 | | 5.9 | | 12.2 | | 14.0 | | 19.6 | | 23.3 | |

For 'Standard Port' refer to drawing.

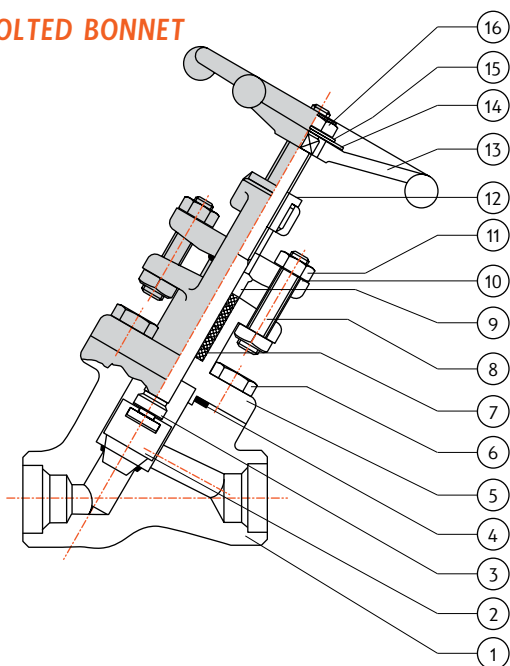
Dimensions are indicative and vary according to standard, port design and body material. Refer to as-built drawing.

SCREWED & WELD END Y-TYPE GLOBE VALVES 800 TO 2500 CLASS

FEATURES

- Construction - API 602, BS 5352 & ASME B16.34 (ISO 15761)
- End Connections - Socket Weld : ANSI/ASME B16.11
Thread : ANSI/ASME B1.20.1
Butt Weld : ANSI/ASME B16.25
- Inspection & Test - API 598 / BS 5146
- Stuffing Box
 - Smoothness - $\leq Ra\ 3.2\ \mu m$ as per API 602
- Stem Smoothness - $\leq Ra\ 0.80\ \mu m$ as per API 602

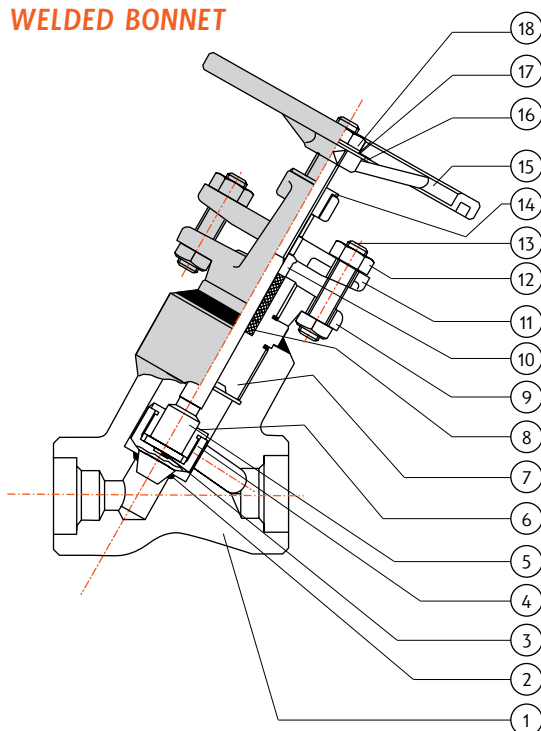
BOLTED BONNET



MATERIALS

| No. | Part Name |
|-----|------------------|
| 1 | Body |
| 2 | Disc |
| 3 | Stem |
| 4 | Gasket |
| 5 | Bonnet |
| 6 | Bonnet Bolt |
| 7 | Gland Packing |
| 8 | Gland Bolt |
| 9 | Gland |
| 10 | Gland Flange |
| 11 | Gland Nut |
| 12 | Yoke Bush |
| 13 | Handwheel |
| 14 | Name Plate |
| 15 | Handwheel Washer |
| 16 | Handwheel Nut |

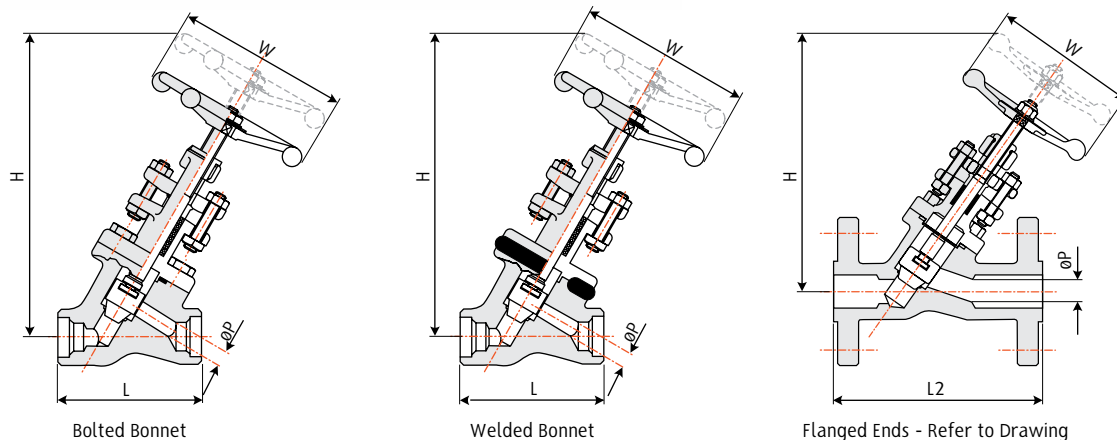
WELDED BONNET



MATERIALS

| No. | Part Name |
|-----|---------------|
| 1 | Body |
| 2 | Seat |
| 3 | Pad |
| 4 | Disc |
| 5 | Stem |
| 6 | Disc Nut |
| 7 | Bonnet |
| 8 | Gland Packing |
| 9 | Yoke |
| 10 | Gland |
| 11 | Gland Flange |
| 12 | Gland Nut |
| 13 | Gland Bolt |
| 14 | Yoke Bush |
| 15 | Handwheel |
| 16 | Name Plate |
| 17 | Tooth Washer |
| 18 | Handwheel Nut |

SCREWED & WELD END Y-TYPE GLOBE VALVES OUTSIDE SCREW & YOKE/SW, NPT, BW, CLASS 800



DIMENSIONS BOLTED BONNET CLASS 800

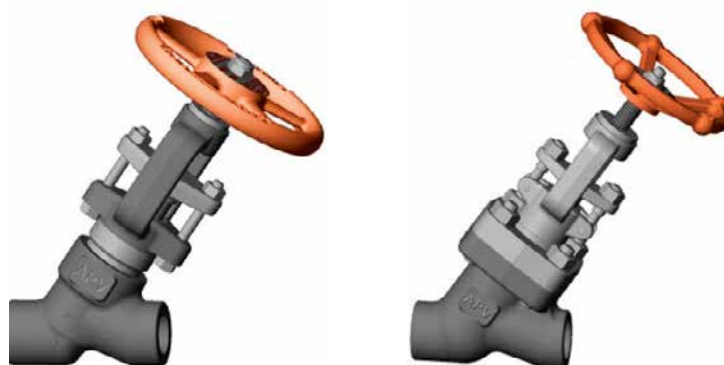
| Regular Port Size (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | | 2-1/2" | |
|------------------------|------|------|------|------|------|------|------|------|------|------|--------|-------|--------|-------|--------|-------|--------|-------|
| Full Port Size (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
| L (mm/in) | 76 | 3.0 | 76 | 3.0 | 76 | 3.0 | 92 | 3.62 | 104 | 4.02 | 124 | 4.89 | 124 | 4.89 | 152 | 5.99 | 200 | 7.87 |
| W (mm/in) | 84 | 3.3 | 84 | 3.3 | 84 | 3.3 | 97 | 3.82 | 97 | 3.82 | 137 | 5.39 | 137 | 5.39 | 157 | 6.18 | 200 | 7.87 |
| H (mm/in) | 167 | 6.58 | 167 | 6.58 | 167 | 6.58 | 180 | 7.09 | 207 | 8.15 | 225 | 10.04 | 225 | 10.04 | 300 | 11.82 | 352 | 13.85 |
| P (mm/in) | 6.4 | 0.25 | 9.5 | 0.38 | 9.5 | 0.38 | 12.5 | 0.5 | 18.5 | 0.73 | 23.5 | 0.93 | 30.5 | 1.20 | 36.0 | 1.41 | 45.0 | 1.77 |
| Wt (kgs/lbs) | 1.8 | 3.97 | 1.8 | 3.97 | 1.8 | 3.97 | 2.1 | 4.83 | 3.5 | 7.72 | 6.70 | 14.8 | 6.70 | 14.8 | 9.7 | 21.4 | 16.0 | 35.27 |
| Typical Cv Factor | 2.9 | | 3.9 | | 4.5 | | 5.5 | | 10.0 | | 18.0 | | 29.5 | | 40.0 | | 52.0 | |

80NB ~ 100NB (3" - 4") refer to drawing

DIMENSIONS WELDED BONNET CLASS 800

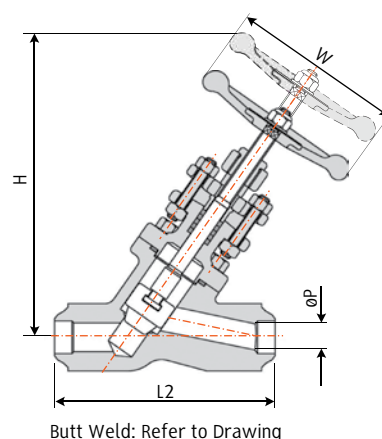
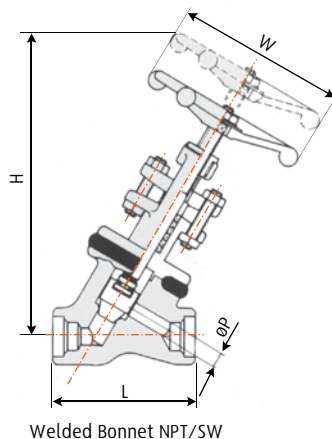
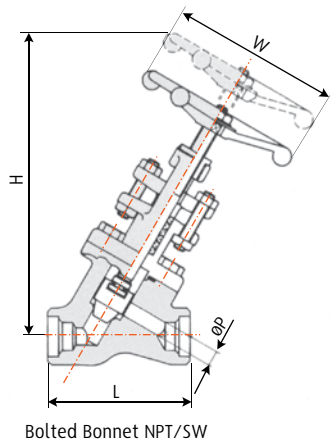
| Regular Port Size (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | | 2-1/2" | |
|------------------------|------|------|------|------|------|------|------|------|------|------|--------|-------|--------|-------|--------|-------|--------|-------|
| Full Port Size (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
| L (mm/in) | 76 | 3.0 | 76 | 3.0 | 76 | 3.0 | 92 | 3.55 | 102 | 4.02 | 124 | 4.89 | 124 | 4.89 | 152 | 5.99 | 200 | 7.87 |
| W (mm/in) | 84 | 3.3 | 84 | 3.3 | 84 | 3.3 | 97 | 3.82 | 97 | 3.82 | 137 | 5.39 | 137 | 5.39 | 157 | 6.18 | 200 | 7.87 |
| H (mm/in) | 167 | 6.58 | 167 | 6.58 | 167 | 6.58 | 180 | 7.09 | 207 | 8.15 | 225 | 10.04 | 225 | 10.04 | 300 | 11.82 | 352 | 13.85 |
| P (mm/in) | 6.4 | 0.25 | 9.5 | 0.38 | 9.5 | 0.38 | 12.5 | 0.5 | 18.5 | 0.73 | 23.5 | 0.93 | 30.5 | 1.20 | 36.0 | 1.41 | 45.0 | 1.77 |
| Wt (kgs/lbs) | 1.6 | 3.53 | 1.6 | 3.53 | 1.6 | 3.53 | 1.9 | 4.2 | 3.2 | 7.1 | 6.4 | 14.1 | 6.4 | 14.1 | 9.3 | 20.5 | 16.0 | 35.27 |
| Typical Cv Factor | 2.9 | | 3.9 | | 4.5 | | 5.5 | | 10.0 | | 18.0 | | 29.5 | | 40.0 | | 52.0 | |

80NB ~ 100NB (3" - 4") refer to drawing



Dimensions are indicative and vary according to standard, port design and body material. Refer to as-built drawing.

SCREWED & WELD END Y-TYPE GLOBE VALVES OUTSIDE SCREW & YOKE/SW, NPT, BW, CLASS 1500



DIMENSIONS BOLTED BONNET CLASS 1500

| Std Port Size (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
|---------------------|------|------|------|------|------|------|------|------|------|-------|--------|-------|--------|-------|------|------|
| Full Port Size (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
| L (mm/in) | 90 | 3.6 | 90 | 3.6 | 90 | 3.6 | 102 | 4.02 | 124 | 4.89 | 152 | 5.99 | 152 | 5.99 | 200 | 7.87 |
| W (mm/in) | 97 | 3.82 | 97 | 3.82 | 97 | 3.82 | 97 | 3.82 | 137 | 5.39 | 157 | 6.18 | 157 | 6.18 | 157 | 6.18 |
| H (mm/in) | 180 | 7.09 | 180 | 7.09 | 180 | 7.09 | 207 | 8.15 | 255 | 10.04 | 300 | 11.82 | 300 | 11.82 | 355 | 14.0 |
| P (mm/in) | 6.4 | 0.38 | 9.5 | 0.38 | 9.5 | 0.38 | 12.5 | .5 | 18.5 | 0.73 | 23.5 | 0.93 | 30.5 | 1.2 | 36.0 | 1.41 |
| Wt (kgs/lbs) | 2.2 | 4.85 | 2.2 | 4.85 | 2.1 | 4.63 | 3.6 | 7.94 | 6.8 | 15.0 | 9.8 | 21.6 | 9.8 | 21.6 | 14.3 | 31.5 |
| Typical Cv Factor | 3.5 | | 4.8 | | 4.8 | | 5.5 | | 10.0 | | 18.0 | | 32.5 | | 48.0 | |

65NB~150NB (2-1/2" ~ 6") refer to drawing

DIMENSIONS WELDED BONNET CLASS 1500

| Std Port Size (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
|---------------------|------|------|------|------|------|------|------|------|------|-------|--------|-------|--------|-------|------|------|
| Full Port Size (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
| L (mm/in) | 90 | 3.55 | 90 | 3.55 | 90 | 3.55 | 102 | 4.02 | 124 | 4.89 | 152 | 5.99 | 152 | 5.99 | 200 | 7.87 |
| W (mm/in) | 97 | 3.82 | 97 | 3.82 | 97 | 3.82 | 97 | 3.82 | 137 | 5.39 | 157 | 6.18 | 157 | 6.18 | 157 | 6.18 |
| H (mm/in) | 180 | 7.09 | 180 | 7.09 | 180 | 7.09 | 207 | 8.15 | 255 | 10.04 | 300 | 11.82 | 300 | 11.82 | 355 | 14.0 |
| P (mm/in) | 6.4 | 0.38 | 9.5 | 0.38 | 9.5 | 0.38 | 12.5 | 0.5 | 18.5 | 0.73 | 23.5 | 0.93 | 30.5 | 1.2 | 36.0 | 1.41 |
| Wt (kgs/lbs) | 2.0 | 4.41 | 2.0 | 4.41 | 1.9 | 4.2 | 3.4 | 7.5 | 6.6 | 14.6 | 9.6 | 21.2 | 9.6 | 21.2 | 14.1 | 31.1 |
| Typical Cv Factor | 3.5 | | 4.8 | | 4.8 | | 5.5 | | 10.0 | | 18.0 | | 32.5 | | 48.0 | |

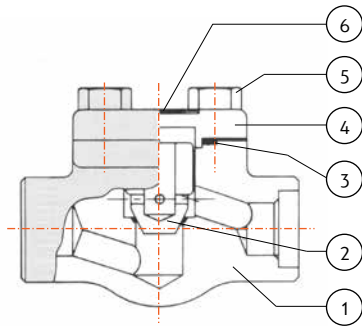
65NB~150NB (2-1/2" ~ 6") refer to drawing

Dimensions are indicative and vary according to standard, port design and body material. Refer to as-built drawing.

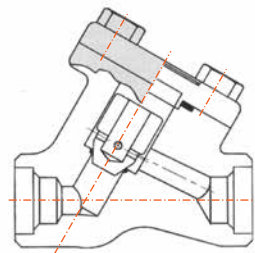
SCREWED & WELD END CHECK VALVES 800 TO 2690 CLASS

BOLTED & WELDED BONNET

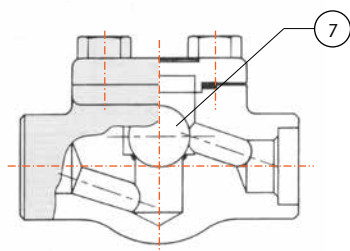
Piston check



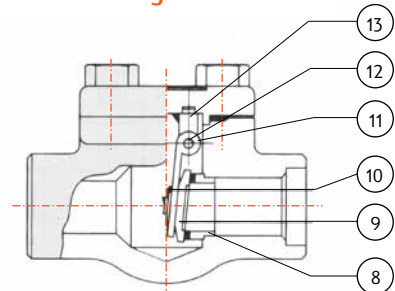
Y-Piston check



Ball check

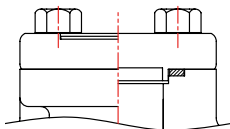


Swing check

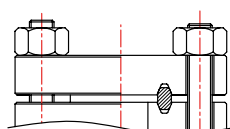


FEATURES

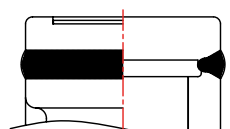
- Construction - API 602, BS 5352 & ANSI/ASME B16.34
- End Connections - Socket Weld : ANSI/ASME B16.11
Thread : ANSI/ASME B1.20.1
Butt Weld : ANSI/ASME B16.25
- Inspection & Test - API 598 / BS 5146



Bolted Cover
(Spiral Wound Type)



Bolted Cover
(Ring Type Joint)



Welded Cover
(Full Penetration Welding)

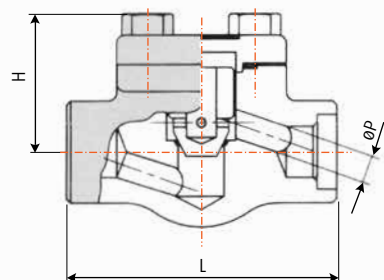
MATERIALS

| No. | Part Name |
|-----|----------------|
| 1 | Body |
| 2 | Disc |
| 3 | Gasket |
| 4 | Bonnet |
| 5 | Bonnet Bolt |
| 6 | Name Plate |
| 7 | Ball |
| 8 | Seat Disc |
| 9 | Disc |
| 10 | Retaining Ring |
| 11 | Hinge |
| 12 | Hinge Pin |
| 13 | Support |

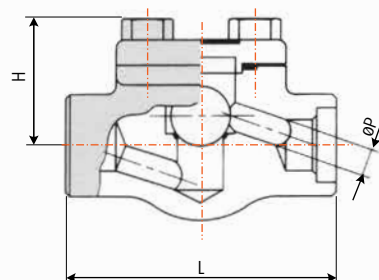
SCREWED & WELD END CHECK VALVES 800 TO 2690 CLASS

DIMENSIONAL DRAWINGS

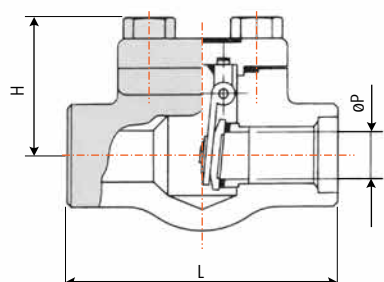
Piston check bolted bonnet



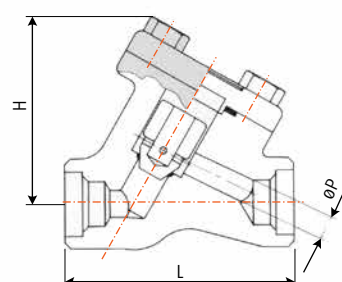
Ball check bolted bonnet



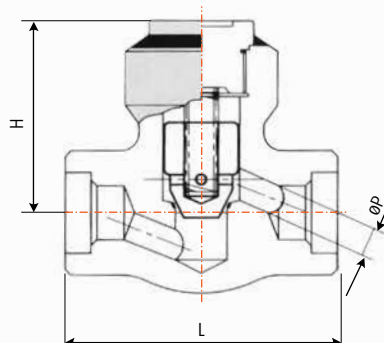
Swing check bolted bonnet



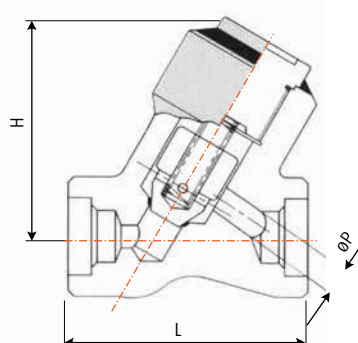
Y-type piston check bolted bonnet



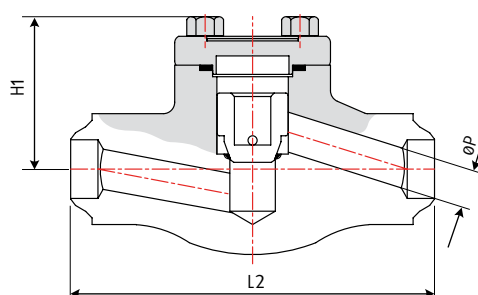
Piston check welded bonnet



Piston check Y-type welded bonnet



Butt Weld



ASME B16.25 - Refer to drawing for dimensions

SCREWED & WELD END CHECK VALVES REGULAR & FULL PORT CLASS 800

DIMENSIONS PISTON CHECK / BALL CHECK

| Regular Port (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | | 2-1/2" | |
|-------------------|------|------|------|------|------|------|------|------|------|------|--------|------|--------|------|--------|------|--------|------|
| Full Port (in) | 1/4" | | 3/8" | | | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
| L (mm/in) | 76 | 3.0 | 76 | 3.0 | 79 | 3.11 | 92 | 3.62 | 111 | 4.37 | 140 | 5.5 | 152 | 5.98 | 172 | 6.77 | 220 | 8.66 |
| H (mm/in) | 46 | 1.8 | 46 | 1.8 | 46 | 1.8 | 61 | 2.40 | 78 | 3.07 | 75 | 2.95 | 84 | 3.30 | 118 | 4.64 | 140 | 5.51 |
| P (mm/in) | 6.4 | 0.25 | 9.5 | 0.38 | 9.5 | 0.38 | 12.5 | 0.5 | 17.5 | 0.69 | 23.5 | 0.93 | 30 | 1.18 | 35 | 1.37 | | |
| Wt (kgs/lbs) | 1 | 2.2 | 1 | 2.2 | 1 | 2.2 | 1.5 | 3.3 | 2 | 4.4 | 4.1 | 9 | 4.1 | 9 | 6.4 | 14.2 | 10.0 | 0.39 |
| Typical Cv Factor | 0.7 | | 1.0 | | 1.2 | | 3.4 | | 6.2 | | 12.9 | | 15.9 | | 18.9 | | 27.0 | |

80NB~150NB (2-1/2" ~ 6") refer to drawing

DIMENSIONS SWING CHECK

| Regular Port (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | | 2-1/2" | |
|-------------------|------|------|------|------|------|------|------|------|------|------|--------|------|--------|------|--------|------|--------|------|
| Full Port (in) | 1/4" | | 3/8" | | | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
| L (mm/in) | 76 | 3.0 | 76 | 3.0 | 79 | 3.11 | 92 | 3.62 | 111 | 4.37 | 115 | 4.53 | 120 | 4.72 | 140 | 5.51 | 220 | 8.66 |
| H (mm/in) | 46 | 1.8 | 46 | 1.8 | 46 | 1.8 | 61 | 2.40 | 78 | 3.07 | 75 | 2.95 | 84 | 3.30 | 120 | 4.72 | 140 | 5.51 |
| P (mm/in) | 6.4 | 0.25 | 9.5 | 0.38 | 10.0 | 0.39 | 13.5 | 0.53 | 18 | 0.71 | 23.5 | 0.93 | 30 | 1.18 | 36.0 | 1.41 | | |
| Wt (kgs/lbs) | 1.0 | 2.2 | 1.0 | 2.2 | 1.0 | 2.2 | 1.5 | 3.3 | 2.0 | 4.4 | 4.1 | 9.0 | 4.1 | 9.0 | 6.0 | 14.2 | 10.0 | 0.39 |
| Typical Cv Factor | 2.6 | | 3.8 | | 4.0 | | 6.3 | | 13.5 | | 18.3 | | 28.3 | | 53.4 | | 70.0 | |

80NB~150NB (2-1/2" ~ 6") refer to drawing

DIMENSIONS Y-PISTON

| Regular Port (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
|-------------------|------|------|------|------|------|------|------|------|------|------|--------|------|--------|------|--------|------|
| Full Port (in) | 1/4" | | 3/8" | | | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | |
| L (mm/in) | 76 | 3.0 | 76 | 3.0 | 76 | 3.0 | 90 | 3.55 | 102 | 4.02 | 124 | 4.89 | 124 | 4.89 | 152 | 5.99 |
| H (mm/in) | 67 | 2.8 | 67 | 2.6 | 67 | 2.6 | 77 | 3.0 | 80 | 3.15 | 111 | 4.4 | 111 | 4.4 | 138 | 5.4 |
| P (mm/in) | 6.4 | 0.25 | 9.5 | 0.38 | 9.5 | 0.38 | 12.5 | 0.5 | 18.5 | 0.73 | 23.5 | 0.93 | 30.5 | 1.2 | 36.0 | 1.41 |
| Wt (kgs/lbs) | 1.2 | 2.6 | 1.2 | 2.6 | 1.2 | 2.6 | 1.4 | 3.1 | 2.4 | 5.3 | 5.2 | 11.5 | 5.2 | 11.5 | 7 | 15.4 |
| Typical Cv Factor | 2.8 | | 3.9 | | 3.9 | | 4.8 | | 8.2 | | 13.0 | | 27.0 | | 39.0 | |

80NB~150NB (2-1/2" ~ 6") refer to drawing

Dimensions are indicative and vary according to standard, port design and body material. Refer to as-built drawing.

SCREWED & WELD END CHECK VALVES STANDARD PORT CLASS 1500

DIMENSIONS PISTON CHECK / BALL CHECK

| Std Port (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
|-------------------|------|------|------|------|------|------|------|------|------|------|--------|------|--------|------|------|------|
| L (mm/in) | 92 | 3.62 | 92 | 3.62 | 92 | 3.62 | 111 | 4.37 | 120 | 4.72 | 146 | 5.74 | 172 | 6.77 | 200 | 7.87 |
| H (mm/in) | 56 | 2.2 | 56 | 2.2 | 56 | 2.2 | 78 | 3.07 | 84 | 3.30 | 100 | 3.94 | 118 | 4.64 | 138 | 5.43 |
| P (mm/in) | 6.4 | 0.25 | 9.5 | 0.38 | 10 | 0.39 | 12.5 | 0.5 | 18.5 | 0.73 | 23.5 | 0.93 | 30.5 | 1.20 | 36.0 | 1.41 |
| Wt (kgs/lbs) | 1.5 | 3.3 | 1.5 | 3.3 | 1.5 | 3.3 | 2.0 | 4.4 | 4.1 | 9 | 6.4 | 14.2 | 6.4 | 14.2 | 9.8 | 21.6 |
| Typical Cv Factor | 0.7 | | 1.0 | | 1.2 | | 3.4 | | 6.2 | | 13.9 | | 14.9 | | 18.2 | |

65NB~150NB (2-1/2" ~ 6") refer to drawing

DIMENSIONS SWING CHECK

| Std Port (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
|-------------------|------|------|------|------|------|------|------|------|------|------|--------|------|--------|------|------|------|
| L (mm/in) | 92 | 3.62 | 92 | 3.62 | 92 | 3.62 | 111 | 4.37 | 120 | 4.72 | 146 | 5.74 | 140 | 5.51 | 178 | 7.0 |
| H (mm/in) | 56 | 2.2 | 56 | 2.2 | 56 | 2.2 | 78 | 3.07 | 84 | 3.30 | 100 | 3.94 | 120 | 4.72 | 133 | 5.23 |
| P (mm/in) | 6.4 | 0.25 | 9.5 | 0.38 | 10 | 0.39 | 13 | 0.51 | 17.5 | 0.69 | 23.5 | 0.93 | 30 | 1.18 | 36.0 | 1.41 |
| Wt (kgs/lbs) | 1.5 | 3.3 | 1.5 | 3.3 | 1.5 | 3.3 | 2.0 | 4.4 | 4.1 | 9.0 | 6.4 | 14.2 | 6.4 | 14.2 | 9.8 | 21.6 |
| Typical Cv Factor | 2.6 | | 4.0 | | 4.0 | | 6.3 | | 13.5 | | 18.3 | | 28.3 | | 53.4 | |

65NB~150NB (2-1/2" ~ 6") refer to drawing

DIMENSIONS Y-PISTON

| Std Port (in) | 1/4" | | 3/8" | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
|-------------------|------|------|------|------|------|------|------|------|------|------|--------|------|--------|------|------|------|
| L (mm/in) | 90 | 3.55 | 90 | 3.55 | 90 | 3.55 | 102 | 4.02 | 124 | 4.89 | 152 | 5.99 | 152 | 5.99 | 200 | 7.87 |
| H (mm/in) | 77 | 3.0 | 77 | 3.0 | 77 | 3.0 | 80 | 3.15 | 111 | 4.4 | 138 | 5.4 | 138 | 5.4 | 178 | 7.0 |
| P (mm/in) | 6.4 | 0.25 | 9.5 | 0.38 | 9.5 | 0.38 | 12.5 | 0.5 | 18.5 | 0.3 | 23.5 | 0.93 | 30.5 | 1.20 | 36.0 | 1.41 |
| Wt (kgs/lbs) | 1.4 | 3.1 | 1.4 | 3.1 | 1.4 | 3.1 | 2.4 | 5.3 | 5.2 | 11.5 | 7.0 | 15.4 | 7.1 | 15.4 | 10.3 | 22.7 |
| Typical Cv Factor | 3.5 | | 3.8 | | 5.0 | | 12.5 | | 18.5 | | 24.9 | | 29.5 | | 36.0 | |

65NB~150NB (2-1/2" ~ 6") refer to drawing

Dimensions are indicative and vary according to standard, port design and body material. Refer to as-built drawing.

SCREWED & WELD END CHECK VALVES STANDARD PORT CLASS 2500

DIMENSIONS PISTON CHECK / BALL CHECK

| Std Port (in) | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
|-------------------|------|------|------|------|------|------|--------|------|--------|------|------|-------|
| L (mm/in) | 127 | 5 | 155 | 6.13 | 210 | 8.25 | 229 | 9 | 229 | 9 | 235 | 9.25 |
| H (mm/in) | 94 | 3.69 | 116 | 4.57 | 147 | 5.75 | 176 | 6.94 | 176 | 6.94 | 195 | 7.625 |
| P (mm/in) | 11 | 0.44 | 13 | 0.5 | 18 | 0.69 | 23 | 0.88 | 26 | 1 | 35 | 1.38 |
| Wt (kgs/lbs) | 4.0 | 8.8 | 7.0 | 15.4 | 14.0 | 30.9 | 21.0 | 46.3 | 21.0 | 46.3 | 30.0 | 66.2 |
| Typical Cv Factor | 1.2 | | 3.4 | | 6.2 | | 9.8 | | 12.9 | | 18.2 | |

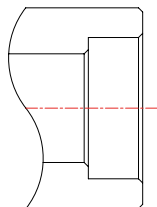
65NB~150NB (2-1/2" ~ 6") refer to drawing. 2690 Class refer to drawing.

DIMENSIONS Y-PISTON CHECK

| Std Port (in) | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
|-------------------|------|------|------|------|------|------|--------|------|--------|------|------|-------|
| L (mm/in) | 127 | 5 | 155 | 6.13 | 210 | 8.25 | 229 | 9 | 229 | 9 | 235 | 9.25 |
| H (mm/in) | 94 | 3.69 | 116 | 4.57 | 147 | 5.75 | 176 | 6.94 | 176 | 6.94 | 195 | 7.625 |
| P (mm/in) | 11 | 0.44 | 13 | 0.5 | 18 | 0.69 | 23 | 0.88 | 26 | 1 | 35 | 1.38 |
| Wt (kgs/lbs) | 4.0 | 8.8 | 7.0 | 15.4 | 14.0 | 30.9 | 21.0 | 46.3 | 21.0 | 46.3 | 30.0 | 66.2 |
| Typical Cv Factor | 3.9 | | 5.9 | | 12.9 | | 24.9 | | 29.9 | | 39.0 | |

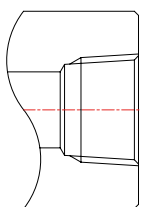
65NB~150NB (2-1/2" ~ 6") refer to drawing. 2690 Class refer to drawing.

Dimensions are indicative and vary according to standard, port design and body material. Refer to as-built drawing.



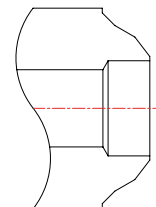
Socket Weld

Design Standard: ASME B16.11



Thread (NPT)

Design Standard: ASME B1.20.1



Butt Weld

Design Standard: ASME B16.25



HIGH PRESSURE GATE VALVES SW, NPT, BW CLASS 1500/2500

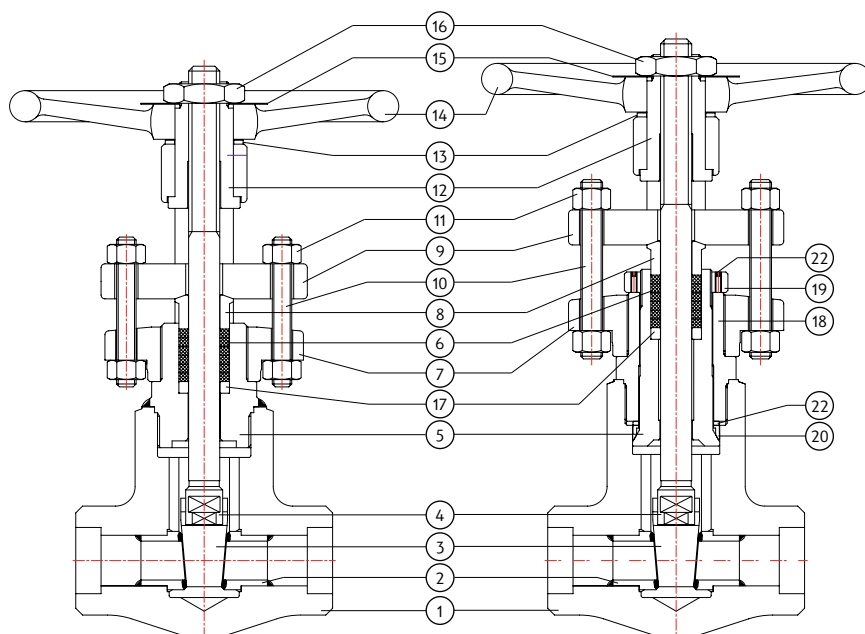
ASME B16.34 DESIGN



ISO 15848-1 Class CO2
Fugitive Emission Certified

Seal Welded Bonnet (SWB)

Pressure Sealed Bonnet (PSB)

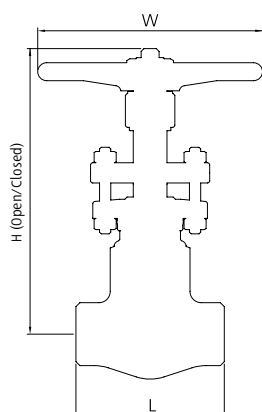


MATERIALS

| No. | Part Name |
|-----|-----------------|
| 1 | Body |
| 2 | Seat Ring |
| 3 | Wedge |
| 4 | Stem* |
| 5 | Bonnet |
| 6 | Packing** |
| 7 | Yoke |
| 8 | Gland |
| 9 | Gland Flange |
| 10 | Gland Bolt |
| 11 | Gland Nut |
| 12 | Yoke Sleeve |
| 13 | Thrust Washer |
| 14 | Handwheel |
| 15 | Nameplate |
| 16 | H/W Nut |
| 17 | Packing Washer |
| 18 | Bonnet Guide |
| 19 | Bonnet Nut |
| 20 | Gasket |
| 21 | Gasket Retainer |
| 22 | Set Screw |

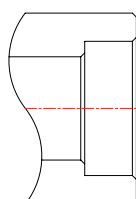
* Stem Smoothness $\leq Ra\ 0.80\ \mu m$ ** Stuffing Box Finish $\leq Ra\ 3.2\ \mu m$

DIMENSIONS (MM) GATE PSB/SWB, CLASS 1500/2500



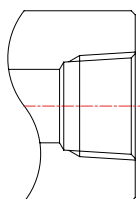
| Symbol | Bonnet Joint | Class | 1/2" (DN15) | 3/4" (DN20) | 1" (DN25) | 1-1/2" (DN40) | 2" (DN50) | 2-1/2" (DN65) | 3" (DN80) |
|-------------------|--------------|-------|-------------|-------------|-----------|---------------|-----------|---------------|-----------|
| L (End to end) | SWB /PSB | 1500 | 102 | 120 | 132 | 152 | 178 | 254 | 280 |
| | | 2500 | 114 | 132 | 152 | 178 | 203 | 254 | 280 |
| W (Handwheel) | | 1500 | 150 | 170 | 200 | 280 | 320 | 360 | 360 |
| | | 2500 | 170 | 200 | 240 | 320 | 360 | 360 | 360 |
| P (Port Dia.) | | 1500 | 12 | 16 | 20 | 32 | 40 | 48 | 59 |
| | | 2500 | 10 | 13 | 18 | 26 | 35 | 40 | 52 |
| H (Height) | | 1500 | 216/227 | 243/256 | 280/294 | 366/385 | 450/473 | 510/536 | 510/536 |
| | | 2500 | 237/249 | 275/289 | 330/347 | 427/449 | 497/522 | 510/536 | 510/536 |
| Wt (kg) | | 1500 | 5.7/6.0 | 6.8/7.2 | 8.2/8.7 | 17.2/18.1 | 34.0/35.7 | 38.0/39.9 | 49.0/51.5 |
| | | 2500 | 6.8/7.2 | 8.2/8.7 | 17.2/18.1 | 34.0/35.7 | 44.5/46.8 | 52.0/54.6 | 58.0/60.9 |

100NB~300NB (4"~12") refer to drawing. 2690 Class refer to drawing.



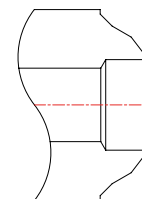
Socket Weld

Design Standard: ASME B16.11



Thread (NPT)

Design Standard: ASME B1.20.1



Butt Weld

Design Standard: ASME B16.25

HIGH PRESSURE GLOBE VALVES SW, NPT, BW, CLASS 1500/2500

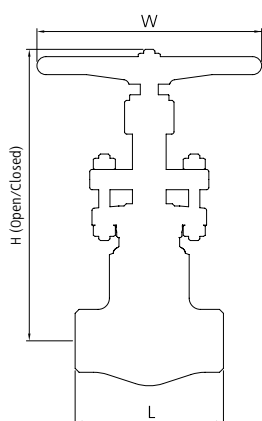
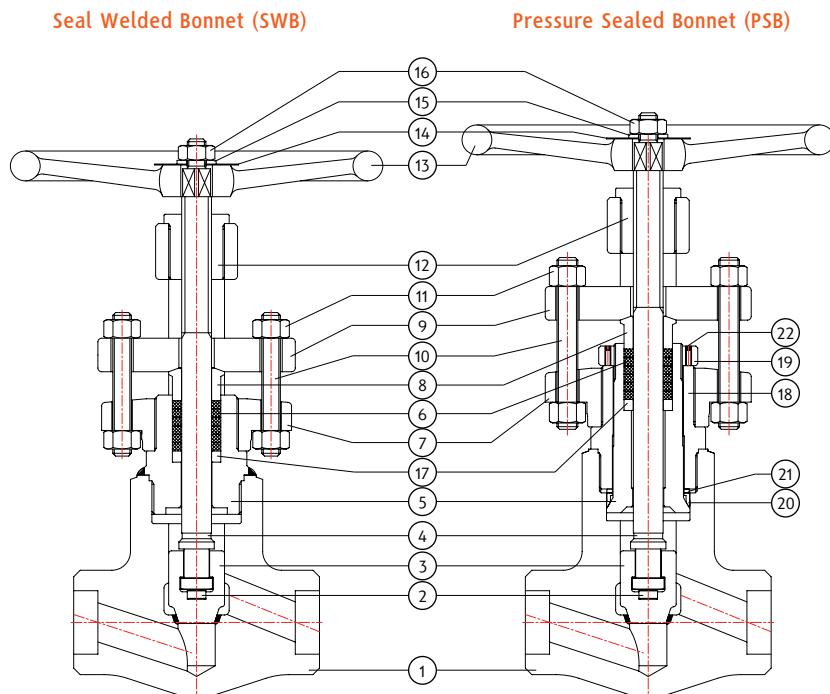
ASME B16.34 DESIGN

MATERIALS

| No. | Part Name |
|-----|-----------------|
| 1 | Body |
| 2 | Disc Pad |
| 3 | Disc |
| 4 | Stem* |
| 5 | Bonnet |
| 6 | Packing** |
| 7 | Yoke |
| 8 | Gland |
| 9 | Gland Flange |
| 10 | Gland Bolt |
| 11 | Gland Nut |
| 12 | Yoke Bush |
| 13 | Handwheel |
| 14 | Nameplate |
| 15 | H/W Washer |
| 16 | H/W Nut |
| 17 | Packing Washer |
| 18 | Bonnet Guide |
| 19 | Bonnet Nut |
| 20 | Gasket |
| 21 | Gasket Retainer |
| 22 | Set Screw |

* Stem Smoothness \leq Ra 0.80 μ m

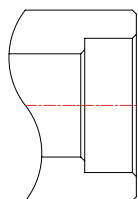
** Stuffing Box Finish \leq Ra 3.2 μ m



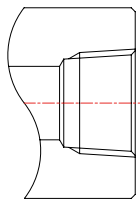
DIMENSIONS (MM) GLOBE PSB/SWB CLASS 1500/2500

| Symbol | Bonnet Joint | Class | 1/2" (DN15) | 3/4" (DN20) | 1" (DN25) | 1-1/2" (DN40) | 2" (DN50) | 2-1/2" (DN65) | 3" (DN80) |
|-------------------|--------------|-------|-------------|-------------|-----------|---------------|-----------|---------------|-----------|
| L (End to end) | SWB /PSB | 1500 | 102 | 120 | 132 | 196 | 248 | 254 | 280 |
| | | 2500 | 114 | 132 | 152 | 216 | 260 | 254 | 280 |
| W (Handwheel) | | 1500 | 150 | 170 | 200 | 280 | 320 | 360 | 360 |
| | | 2500 | 170 | 200 | 240 | 320 | 360 | 360 | 360 |
| P (Port Dia.) | | 1500 | 12 | 16 | 20 | 32 | 40 | 48 | 59 |
| | | 2500 | 10 | 13 | 18 | 26 | 35 | 40 | 52 |
| H (Height) | | 1500 | 212/223 | 240/252 | 277/291 | 372/391 | 455/478 | 510/536 | 510/536 |
| | | 2500 | 236/248 | 276/290 | 331/348 | 446/469 | 513/539 | 510/536 | 510/536 |
| Wt (kg) | | 1500 | 5.7/6.0 | 6.8/7.2 | 8.2/8.7 | 17.2/18.1 | 34.0/35.7 | 38.0/38.9 | 49.0/51.5 |
| | | 2500 | 6.8/7.2 | 8.2/8.7 | 17.2/18.1 | 34.0/35.7 | 44.5/46.8 | 52.0/54.6 | 58.0/60.9 |

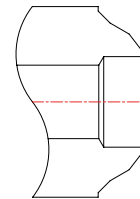
100NB~300NB (4"~12") refer to drawing. 2690 Class refer to drawing.



Socket Weld
Design Standard: ASME B16.11



Thread (NPT)
Design Standard: ASME B1.20.1



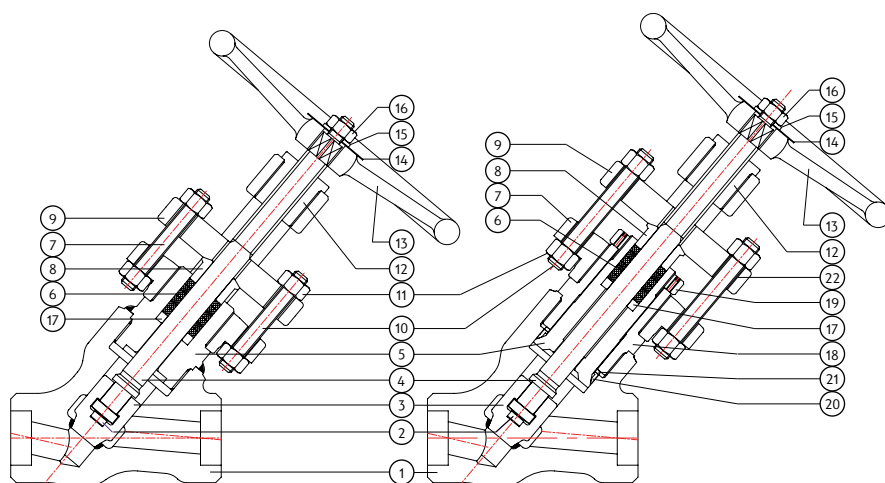
Butt Weld
Design Standard: ASME B16.25

HIGH PRESSURE Y-GLOBE VALVES SW, NPT, BW, CLASS 1500/2500

ASME B16.34 DESIGN

Seal Welded Bonnet (SWB)

Pressure Sealed Bonnet (PSB)



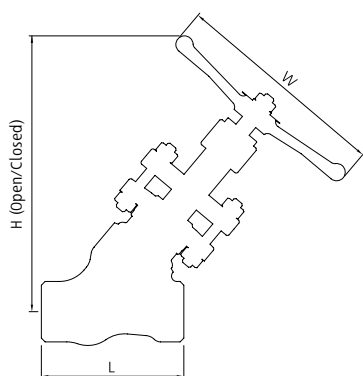
MATERIALS

| No. | Part Name |
|-----|-----------------|
| 1 | Body |
| 2 | Disc Pad |
| 3 | Disc |
| 4 | Stem* |
| 5 | Bonnet |
| 6 | Packing** |
| 7 | Yoke |
| 8 | Gland |
| 9 | Gland Flange |
| 10 | Gland Bolt |
| 11 | Gland Nut |
| 12 | Yoke Bush |
| 13 | Handwheel |
| 14 | Nameplate |
| 15 | H/W Washer |
| 16 | H/W Nut |
| 17 | Packing Washer |
| 18 | Bonnet Guide |
| 19 | Bonnet Nut |
| 20 | Gasket |
| 21 | Gasket Retainer |
| 22 | Set Screw |

* Stem Smoothness \leq Ra 0.80 μ m

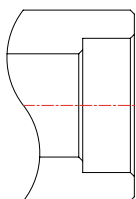
** Stuffing Box Finish \leq Ra 3.2 μ m

DIMENSIONS (MM) Y-GLOBE PSB/SWB CLASS 1500/2500



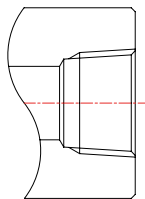
| Symbol | Bonnet Joint | Class | 1/2" (DN15) | 3/4" (DN20) | 1" (DN25) | 1-1/2" (DN40) | 2" (DN50) | 2-1/2" (DN65) | 3" (DN80) |
|-------------------|--------------|-------|-------------|-------------|-----------|---------------|-----------|---------------|-----------|
| L (End to end) | SWB /PSB | 1500 | 102 | 120 | 132 | 196 | 248 | 254 | 280 |
| | | 2500 | 114 | 132 | 152 | 216 | 286 | 254 | 280 |
| W (Handwheel) | | 1500 | 150 | 170 | 200 | 280 | 320 | 360 | 360 |
| | | 2500 | 170 | 200 | 240 | 320 | 360 | 360 | 360 |
| P (Port Dia.) | | 1500 | 12 | 16 | 20 | 32 | 40 | 48 | 59 |
| | | 2500 | 10 | 13 | 18 | 26 | 35 | 40 | 52 |
| H (Height) | | 1500 | 208/218 | 233/245 | 270/283 | 366/384 | 440/462 | 510/535 | 510/535 |
| | | 2500 | 232/244 | 270/283 | 323/339 | 437/459 | 498/523 | 510/535 | 510/535 |
| Wt (kg) | | 1500 | 3.2/3.4 | 4.1/4.3 | 6.1/6.4 | 14.9/15.6 | 28.5/29.9 | 38.0/39.9 | 49.0/51.4 |
| | | 2500 | 4.0/4.2 | 5.0/5.2 | 10.4/10.9 | 22.0/23.1 | 39.5/41.4 | 52.0/54.6 | 58.0/60.9 |

100NB-300NB (4"-12") refer to drawing. 2690 Class refer to drawing.



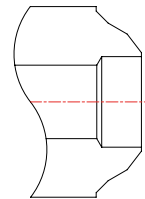
Socket Weld

Design Standard: ASME B16.11



Thread (NPT)

Design Standard: ASME B1.20.1



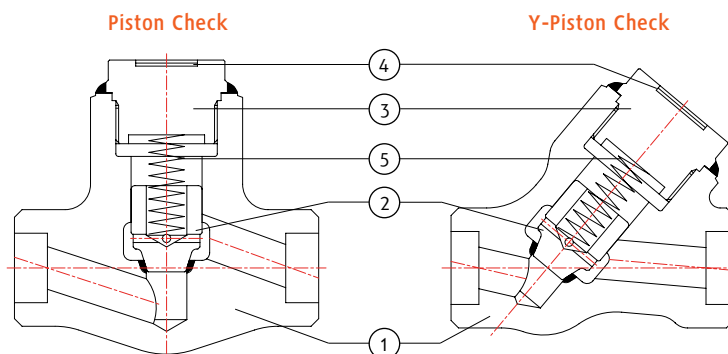
Butt Weld

Design Standard: ASME B16.25

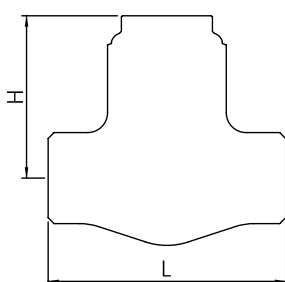
HIGH PRESSURE PISTON CHECK VALVES SW, NPT, BW, CLASS 1500/2500

ASME B16.34 DESIGN

SEAL WELDED COVER (SWC)



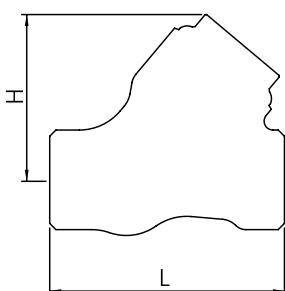
DIMENSIONS (MM) PISTON CHECK - 1500/2500 CLASS



| Symbol | Bonnet Joint | Class | 1/2" (DN15) | 3/4" (DN20) | 1" (DN25) | 1-1/2" (DN40) | 2" (DN50) | 2-1/2" (DN65) | 3" (DN80) |
|-------------------|--------------|-------|-------------|-------------|-----------|---------------|-----------|---------------|-----------|
| L (End to end) | SWC | 1500 | 102 | 120 | 132 | 196 | 248 | 254 | 280 |
| | | 2500 | 114 | 132 | 152 | 216 | 260 | 254 | 280 |
| P (Port Dia.) | | 1500 | 12 | 16 | 20 | 32 | 40 | 48 | 59 |
| | | 2500 | 10 | 13 | 18 | 26 | 35 | 40 | 52 |
| H (Height) | | 1500 | 73 | 84 | 92 | 130 | 153 | 206 | 235 |
| | | 2500 | 82 | 95 | 114 | 149 | 174 | 206 | 235 |
| Wt (kg) | | 1500 | 2.4 | 3.0 | 4.2 | 10.5 | 19.5 | 28 | 36.0 |
| | | 2500 | 2.8 | 3.5 | 7.5 | 12.5 | 27.5 | 30.0 | 38.0 |

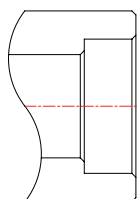
100NB-300NB (4"-12") refer to drawing. 2690 Class refer to drawing.

DIMENSIONS (MM) Y-PISTON CHECK - 1500/2500 CLASS



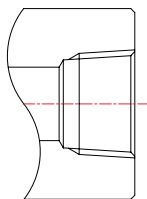
| Symbol | Bonnet Joint | Class | 1/2" (DN15) | 3/4" (DN20) | 1" (DN25) | 1-1/2" (DN40) | 2" (DN50) | 2-1/2" (DN65) | 3" (DN80) |
|-------------------|--------------|-------|-------------|-------------|-----------|---------------|-----------|---------------|-----------|
| L (End to end) | SWC | 1500 | 102 | 120 | 132 | 196 | 248 | 254 | 280 |
| | | 2500 | 114 | 132 | 152 | 216 | 286 | 254 | 280 |
| P (Port Dia.) | | 1500 | 12 | 16 | 20 | 32 | 40 | 48 | 59 |
| | | 2500 | 10 | 13 | 18 | 26 | 35 | 40 | 52 |
| H (Height) | | 1500 | 70 | 79 | 88 | 119 | 141 | 206 | 235 |
| | | 2500 | 80 | 93 | 108 | 146 | 167 | 216 | 235 |
| Wt (kg) | | 1500 | 2.4 | 3.0 | 4.2 | 10.5 | 19.5 | 28 | 36.0 |
| | | 2500 | 2.8 | 3.5 | 7.5 | 12.5 | 27.5 | 30.0 | 38.0 |

100NB-300NB (4"-12") refer to drawing. 2690 Class refer to drawing.



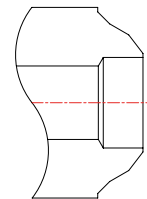
Socket Weld

Design Standard: ASME B16.11



Thread (NPT)

Design Standard: ASME B1.20.1



Butt Weld

Design Standard: ASME B16.25

BELLOW SEALED GLOBE VALVE SW, NPT, BW 800 TO 2500 CLASS

OVERVIEW

- ASME B16.34 Design
- 15NB - 50NB (1/2 - 2") Bolted Bonnet
- Flange Ends, SW, NPT, BSP or Buttweld ends available
150 to 2500 Class
- Design - API 602, BS 5352, MSS SP11, ANSI/ASME B16.34
- End Connections - Socket Weld: ANSI/ASME B16.11
Thread : ANSI/ASME B1.20.1
Butt Weld : ANSI/ASME B16.25
Flange : ANSI/ASME B16.5
- Test and Inspection - API 598 / BS 5146

MATERIALS

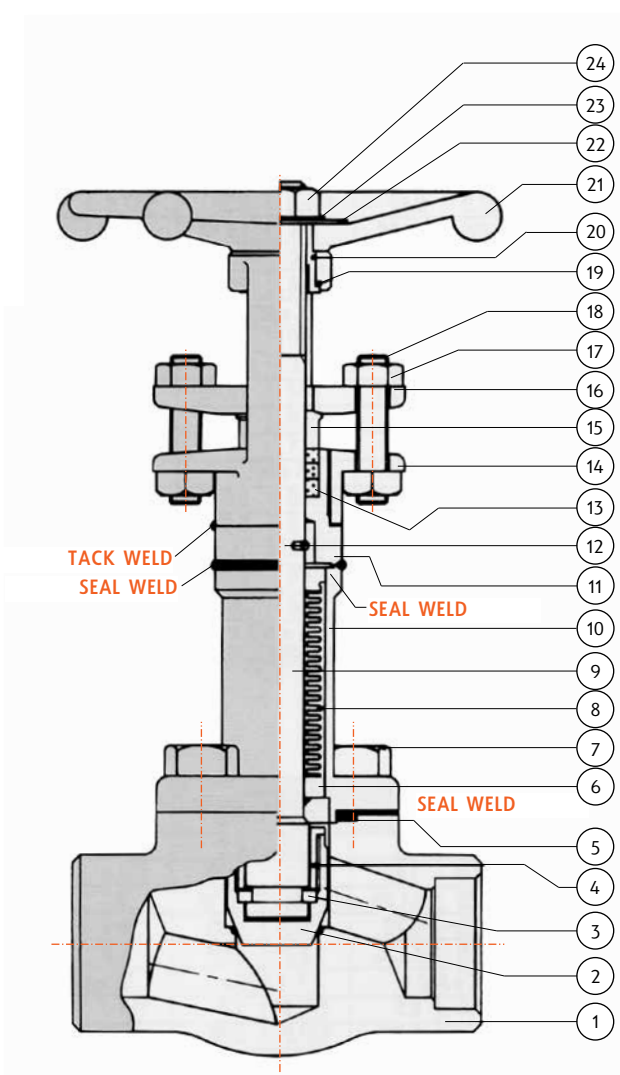
| No. | Part Name |
|-----|----------------------|
| 1 | Body |
| 2 | Disc |
| 3 | Split Ring |
| 4 | Disc Nut |
| 5 | Gasket |
| 6 | Bellows Holder Lower |
| 7 | Bonnet Bolt |
| 8 | Bellows |
| 9 | Stem* |
| 10 | Bonnet |
| 11 | Bonnet Upper |
| 12 | Guide Pin |
| 13 | Gland Packing** |
| 14 | Yoke |
| 15 | Gland |
| 16 | Gland Flange |
| 17 | Gland Nut |
| 18 | Gland Bolt |
| 19 | Thrust Washer |
| 20 | Yoke Sleeve |
| 21 | Handwheel |
| 22 | Handwheel Washer |
| 23 | Name Plate |
| 24 | Handwheel Nut |

* Stem Smoothness \leq Ra 0.80 μ m

** Stuffing Box Smoothness \leq Ra 3.2 μ m

DESIGN FEATURES

- Inconel or 321SS Bellows
 - For longer life
 - Maximum corrosion resistance
- Flanged, screwed or welded end connections
- Welded or bolted bonnet design
- Zero stem leakage
 - Eliminates media loss
 - Satisfies environmental regulations
- Zero maintenance
 - Lower operating costs/no downtime
- Three stem seals for safety
 - Metallic bellows
 - Graphite packing
 - Backseat in open position
- Reduce monitoring costs
- Hardfaced seating surface
 - Stellite 6 for long life
- Valve designed, manufactured and tested
 - To ANSI B16.34/API 602 & 598
- Additional alloy and trims available
- For applications where leakage into or out of the valve is unacceptable
 - Heat transfer oil
 - Toxic fluids
 - Steam
 - Regulated media



BELLOW SEALED GATE VALVE SW, NPT, BW 800 TO 2500 CLASS

OVERVIEW

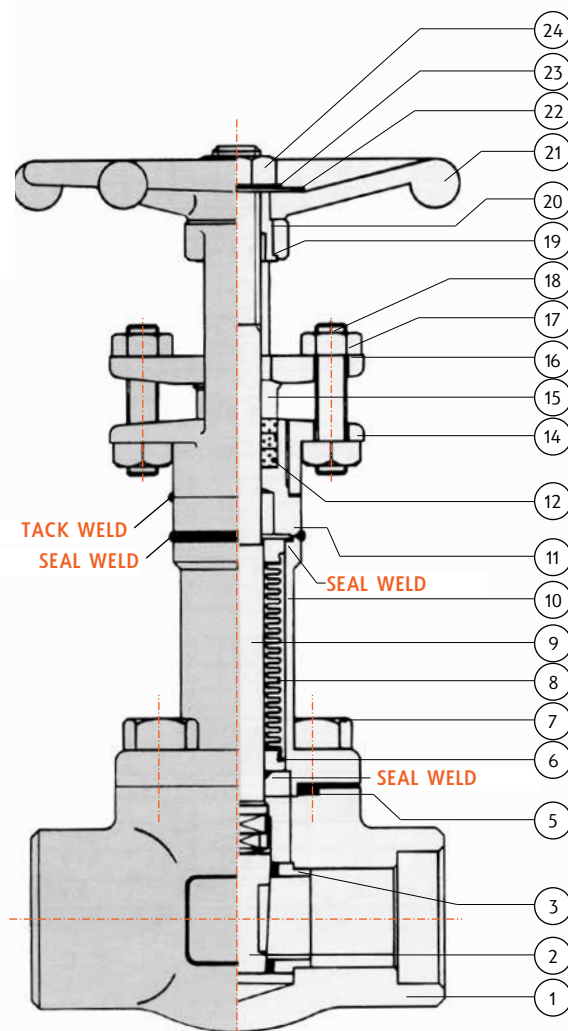
- ASME B16.34 Design
- 15NB - 50NB (1/2 - 2") Bolted Bonnet
- Flange Ends, SW, NPT, BSP or Buttweld ends available
150 to 2500 Class
- Design - API 602, BS 5352, MSS SP11, ANSI/ASME B16.34
- End Connections - Socket Weld : ANSI/ASME B16.11
Thread : ANSI/ASME B1.20.1
Butt Weld : ANSI/ASME B16.25
Flange : ANSI/ASME B16.5
- Test and Inspection - API 598 / BS 5146

MATERIALS

| No. | Part Name |
|-----|----------------------|
| 1 | Body |
| 2 | Disc |
| 3 | Split Ring |
| 5 | Gasket |
| 6 | Bellows Holder Lower |
| 7 | Bonnet Bolt |
| 8 | Bellows |
| 9 | Stem |
| 10 | Bonnet |
| 11 | Bonnet Upper |
| 13 | Gland Packing |
| 14 | Yoke |
| 15 | Gland |
| 16 | Gland Flange |
| 17 | Gland Nut |
| 18 | Gland Bolt |
| 19 | Thrust Washer |
| 20 | Yoke Sleeve |
| 21 | Handwheel |
| 22 | Handwheel Washer |
| 23 | Name Plate |
| 24 | Handwheel Nut |

* Stem Smoothness \leq Ra 0.80 μ m

** Stuffing Box Smoothness \leq Ra 3.2 μ m



DESIGN FEATURES

- Inconel or 321SS Bellows
 - For longer life
 - Maximum corrosion resistance
- Flanged, screwed or welded end connections
- Welded or bolted bonnet design
- Zero stem leakage
 - Eliminates media loss
 - Satisfies environmental regulations
- Zero maintenance
 - Lower operating costs/no downtime
- Three stem seals for safety
 - Metallic bellows
 - Graphite packing
 - Backseat in open position
- Reduce monitoring costs
- Hardfaced seating surface
 - Stellite 6 for long life
- Valve designed, manufactured and tested
 - To ANSI B16.34/API 602 & 598
- Additional alloy and trims available
- For applications where leakage into or out of the valve is unacceptable
 - Heat transfer oil
 - Toxic fluids
 - Steam
 - Regulated media

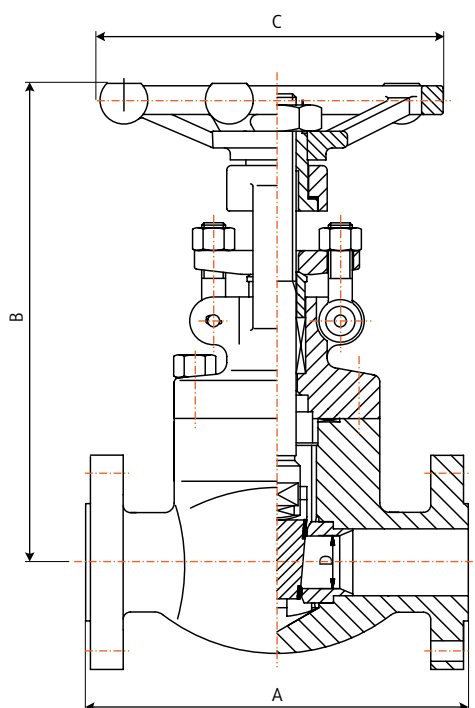


ISO 15848-1 Class CO2
Fugitive Emission Certified

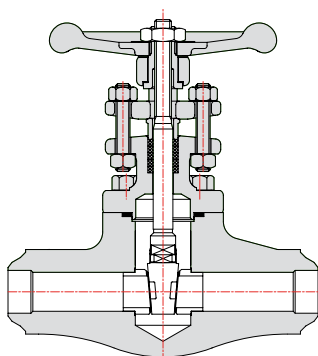
INTEGRAL FLANGED GATE VALVES BOLTED, WELDED & PRESSURE SEAL BONNET CLASS 150 TO 2500

DESIGN FEATURES

- Integral Flanged
- Outside screw
- Bolted bonnet & welded bonnet
- Regular bore & full bore
- Flanging to ANSI B16.5.
- Other flanges available.
- Alternative trim materials available.



(Welded and Bolted Bonnet)



Butt Weld: ASME B16.25
Refer to drawing.

MATERIALS

| No. | Part Name |
|-----|------------------|
| 1 | Body |
| 2 | Disc |
| 3 | Stem* |
| 4 | Gasket |
| 5 | Bonnet |
| 6 | Bonnet Bolt |
| 7 | Gland Packing** |
| 8 | Gland Bolt |
| 9 | Gland |
| 10 | Gland Flange |
| 11 | Gland Nut |
| 12 | Yoke Bush |
| 13 | Handwheel |
| 14 | Name Plate |
| 15 | Handwheel Washer |
| 16 | Handwheel Nut |

* Stem Smoothness \leq Ra 0.80 μ m per API 602

** Stuffing Box Finish \leq Ra 3.2 μ m per API 602

- A = Face to Face
B = Centre to top
C = Wheel diameter
D = Port Diameter



ISO 15848-1 Class CO2
Fugitive Emission Certified

STANDARDS

- Construction - API 602 & ANSI/ASME B16.34
- End Connections - Socket Weld : ANSI/ASME B16.11
Thread : ANSI/ASME B1.20.1
Butt Weld : ANSI/ASME B16.25
Flanged : ANSI/ASME B16.5
- Inspection & Test - API 598



Bolted Bonnet

INTEGRAL FLANGED GATE VALVES

FLANGED DIMENSIONS RF/RTJ - REGULAR BORE*

| ANSI Class | Dimensions | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
|--------------------------------|-------------------|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|
| | | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in |
| 150 | A - Face to Face | 108.08 | 4.25 | 117.0 | 4.6 | 127.0 | 5.0 | 140.0 | 5.5 | 165.0 | 6.5 | 178.0 | 7.0 |
| | C - Wheel Dia. | 84.0 | 3.31 | 97.0 | 3.82 | 97.0 | 3.82 | 137.0 | 5.69 | 137.0 | 5.39 | 157.0 | 6.18 |
| | B - Centre to Top | 138.0 | 5.43 | 147.0 | 5.79 | 174.0 | 6.85 | 217.0 | 8.54 | 217.0 | 8.54 | 256.0 | 10.08 |
| | D - Port Dia.* | 9.6 | 0.38 | 12.7 | 0.5 | 18.5 | 0.73 | 24.0 | 0.95 | 30.5 | 1.20 | 38.1 | 1.5 |
| | Wt (kg/lb) | 2.7 | 6.6 | 3.4 | 7.5 | 5.0 | 11.0 | 9.2 | 20.3 | 9.2 | 20.3 | 12.7 | 28.0 |
| 300 | A - Face to Face | 140.0 | 5.5 | 152.0 | 6.0 | 165.0 | 6.5 | 178.0 | 7.0 | 190.0 | 7.5 | 216.0 | 8.5 |
| | C - Wheel Dia. | 84.0 | 3.31 | 97.0 | 3.82 | 97.0 | 3.82 | 137.0 | 5.39 | 137.0 | 5.69 | 157.0 | 6.18 |
| | B - Centre to Top | 138.0 | 5.43 | 147.0 | 5.79 | 174.0 | 6.85 | 217.0 | 8.54 | 217.0 | 8.54 | 256.0 | 10.08 |
| | D - Port Dia.* | 9.6 | 0.38 | 12.7 | 0.5 | 18.5 | 0.73 | 24.0 | 0.95 | 30.5 | 1.20 | 38.1 | 1.5 |
| | Wt (kg/lb) | 3.0 | 6.6 | 3.7 | 8.16 | 5.3 | 11.7 | 9.5 | 21.0 | 9.5 | 21.0 | 13.1 | 28.9 |
| 600 | A - Face to Face | 165.0 | 6.5 | 190.0 | 7.5 | 216.0 | 8.5 | 229.0 | 9.0 | 241.0 | 9.5 | 292.0 | 11.5 |
| | C - Wheel Dia. | 84.0 | 3.31 | 97.0 | 3.82 | 97.0 | 3.82 | 137.0 | 5.69 | 137.0 | 5.39 | 157.0 | 6.18 |
| | B - Centre to Top | 138.0 | 5.43 | 147.0 | 5.79 | 174.0 | 6.85 | 217.0 | 8.54 | 217.0 | 8.54 | 256.0 | 10.08 |
| | D - Port Dia.* | 9.6 | 0.38 | 12.7 | 0.5 | 18.5 | 0.73 | 24.0 | 0.95 | 30.5 | 1.20 | 38.1 | 1.5 |
| | Wt (kg/lb) | 3.5 | 7.7 | 4.9 | 10.8 | 6.7 | 14.8 | 12.2 | 26.9 | 12.4 | 27.3 | 16.3 | 36.4 |
| 900 / 1500 | A - Face to Face | 216.0 | 8.5 | 229.0 | 9.0 | 254.0 | 10.0 | 279.0 | 11.0 | 305.0 | 12.0 | 368.0 | 14.5 |
| | C - Wheel Dia. | 97.0 | 3.82 | 97.0 | 3.82 | 137.0 | 5.40 | 157.0 | 6.18 | 157.0 | 6.18 | 157.0 | 6.18 |
| | B - Centre to Top | 147.0 | 5.79 | 156.0 | 6.14 | 207.0 | 8.15 | 246.0 | 9.69 | 246.0 | 9.69 | 303.0 | 11.93 |
| | D - Port Dia.* | 10.5 | 0.41 | 13.0 | 0.51 | 18.0 | 0.71 | 24.0 | 0.95 | 29.0 | 1.14 | 36.8 | 1.45 |
| | Wt (kg/lb) | 4.9 | 10.8 | 6.9 | 15.2 | 18.5 | 40.8 | 28.0 | 61.7 | 29.0 | 63.9 | 34.0 | 75.0 |
| 2500 (Pressure Seal Bonnet) | A - Face to Face | 264.0 | 10.4 | 273.0 | 10.74 | 308.0 | 12.12 | 349.0 | 13.74 | 387.5 | 15.25 | 454.0 | 17.87 |
| | C - Wheel Dia. | 200.0 | 7.87 | 200.0 | 7.87 | 200.0 | 7.87 | 300.0 | 11.81 | 300 | 11.81 | 300.0 | 11.81 |
| | B - Centre to Top | 321.0 | 12.63 | 321.0 | 12.63 | 321.0 | 12.63 | 389.0 | 15.31 | 414.0 | 16.3 | 502.0 | 19.76 |
| | D - Port Dia.* | 12.0 | 0.47 | 12.7 | 0.50 | 18.0 | 0.70 | 24.0 | 0.95 | 29.0 | 1.14 | 36.8 | 1.45 |
| | Wt (kg/lb) | 11.6 | 25.57 | 12.3 | 27.11 | 20.8 | 45.85 | 26.8 | 59.08 | 28.4 | 62.61 | 40.0 | 88.18 |

*Regular bore shown, full port refer to drawing.

CV FACTORS

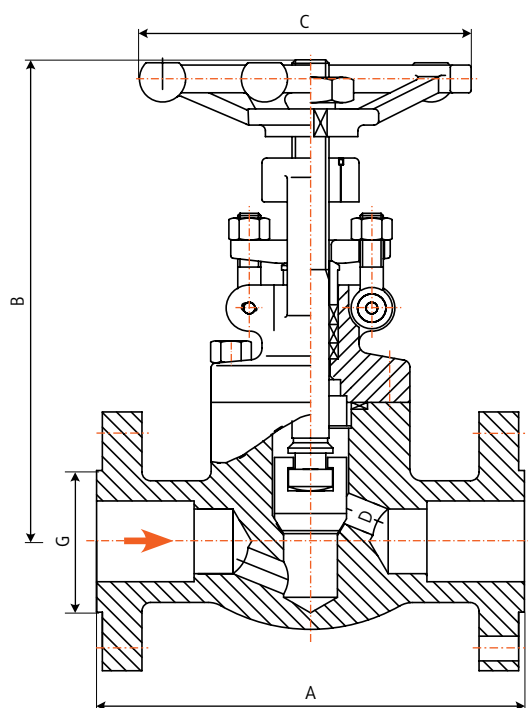
| Class | Size | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
|-----------|-------------------|------|------|------|--------|--------|-------|
| 150~800LB | Typical Cv Factor | 3.0 | 11.3 | 26.3 | 52.4 | 78.0 | 115.0 |

Dimensions are indicative and vary according to standard, port design and body material. Refer to as-built drawing.

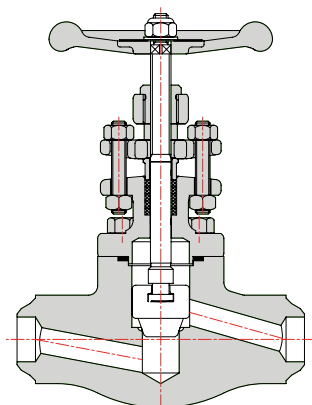
INTEGRAL FLANGED GLOBE & SDNR VALVES BOLTED, WELDED & PRESSURE SEAL BONNET CLASS 150 TO 2500

DESIGN FEATURES

- Integral flanged.
- Outside screw
- Bolted bonnet & welded bonnet
- Regular bore & full bore
- Flanging to ANSI B16.5
- Other flanges available.
- Alternative trim materials available.



(Welded and Bolted Bonnet)



Butt Weld: ASME B16.25
Refer to drawing.

MATERIALS

| No. | Part Name |
|-----|------------------|
| 1 | Body |
| 2 | Disc |
| 3 | Stem* |
| 4 | Gasket |
| 5 | Bonnet |
| 6 | Bonnet Bolt |
| 7 | Gland Packing** |
| 8 | Gland Bolt |
| 9 | Gland |
| 10 | Gland Flange |
| 11 | Gland Nut |
| 12 | Yoke Bush |
| 13 | Handwheel |
| 14 | Name Plate |
| 15 | Handwheel Washer |
| 16 | Handwheel Nut |

* Stem Smoothness \leq Ra 0.80 μ m per API 602

** Stuffing Box Finish \leq Ra 3.2 μ m per API 602

- A = Face to Face
B = Centre to top
C = Wheel diameter
D = Port Diameter

STANDARDS

- Construction - API 602 & ANSI/ASME B16.34
- End Connections - Socket Weld : ANSI/ASME B16.11
Thread : ANSI/ASME B1.20.1
Butt Weld : ANSI/ASME B16.25
Flanged : ANSI/ASME B16.5
- Inspection & Test - API 598



Bolted Bonnet

INTEGRAL FLANGED GLOBE VALVES

FLANGED DIMENSIONS RF/RTJ - REGULAR BORE*

| ANSI Class | Dimensions | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
|--------------------------------|-------------------|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|
| | | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in |
| 150 | A - Face to Face | 108.08 | 4.25 | 117.0 | 4.6 | 127.0 | 5.0 | 140.0 | 5.5 | 165.0 | 6.5 | 203.0 | 8.0 |
| | C - Wheel Dia. | 84.0 | 3.31 | 97.0 | 3.82 | 97.0 | 3.82 | 137.0 | 5.39 | 137.3 | 5.39 | 157.0 | 6.18 |
| | B - Centre to Top | 144.0 | 5.67 | 154.0 | 6.06 | 177.0 | 6.97 | 225.0 | 8.86 | 214.0 | 8.43 | 254.0 | 10.0 |
| | D - Port Dia.* | 9.5 | 0.38 | 12.5 | 0.5 | 18.5 | 0.73 | 23.5 | 0.93 | 30.5 | 1.20 | 36.0 | 1.41 |
| | Wt (kg/lb) | 2.8 | 6.2 | 3.5 | 7.72 | 5.1 | 11.3 | 9.3 | 20.5 | 9.4 | 20.68 | 12.8 | 28.2 |
| 300 | A - Face to Face | 152.0 | 6.0 | 178.0 | 7.0 | 203.0 | 8.0 | 216.0 | 8.5 | 229.0 | 9.0 | 267.0 | 10.5 |
| | C - Wheel Dia. | 84.0 | 3.31 | 97.0 | 3.82 | 97.0 | 3.82 | 137.0 | 5.39 | 137.0 | 5.39 | 157.0 | 6.18 |
| | B - Centre to Top | 144.0 | 5.67 | 154.0 | 6.06 | 177.0 | 6.97 | 225.0 | 8.86 | 214.0 | 8.43 | 254.0 | 10.0 |
| | D - Port Dia.* | 9.5 | 0.38 | 12.5 | 0.5 | 18.5 | 0.73 | 23.5 | 0.93 | 30.5 | 1.20 | 36.0 | 1.41 |
| | Wt (kg/lb) | 3.1 | 6.83 | 3.8 | 8.40 | 5.4 | 11.9 | 9.6 | 21.2 | 9.6 | 21.2 | 13.2 | 29.1 |
| 600 | A - Face to Face | 165.0 | 6.5 | 190.0 | 7.5 | 216.0 | 8.5 | 229.0 | 9.0 | 241.0 | 9.5 | 292.0 | 11.5 |
| | C - Wheel Dia. | 84.0 | 3.31 | 97.0 | 3.82 | 97.0 | 3.82 | 137.0 | 5.39 | 137.0 | 5.39 | 157.0 | 6.18 |
| | B - Centre to Top | 144.0 | 5.67 | 154.0 | 6.06 | 177.0 | 6.97 | 225.0 | 8.86 | 214.0 | 8.43 | 254.0 | 10.0 |
| | D - Port Dia.* | 9.5 | 0.38 | 12.5 | 0.5 | 18.5 | 0.73 | 23.5 | 0.93 | 30.5 | 1.20 | 36.0 | 1.41 |
| | Wt (kg/lb) | 3.6 | 7.94 | 5.0 | 11.0 | 6.8 | 15.0 | 12.3 | 27.1 | 12.5 | 27.6 | 16.6 | 36.6 |
| 900 / 1500 | A - Face to Face | 216.0 | 8.5 | 229.0 | 9.0 | 254.0 | 10.0 | 279.0 | 11.0 | 305.0 | 12.0 | 368.0 | 14.5 |
| | C - Wheel Dia. | 97.0 | 3.82 | 97.0 | 3.82 | 137.0 | 5.40 | 157.0 | 6.18 | 157.0 | 6.18 | 157.0 | 6.18 |
| | B - Centre to Top | 150.0 | 5.91 | 179.0 | 7.05 | 231.0 | 9.09 | 256.0 | 10.08 | 256.0 | 10.08 | 301.0 | 11.85 |
| | D - Port Dia.* | 9.5 | 0.38 | 13.0 | 0.51 | 18.0 | 0.70 | 24 | 0.94 | 29.0 | 1.14 | 36.8 | 1.45 |
| | Wt (kg/lb) | 5.0 | 11.0 | 7.0 | 15.4 | 18.7 | 41.2 | 28.2 | 62.17 | 29.2 | 64.37 | 34.2 | 75.4 |
| 2500 (Pressure Seal Bonnet) | A - Face to Face | 264.0 | 10.39 | 273.0 | 10.74 | 308.0 | 12.12 | 349.0 | 13.74 | 387.5 | 15.25 | 454.0 | 17.87 |
| | C - Wheel Dia. | 200.0 | 7.87 | 200.0 | 7.87 | 200.0 | 7.87 | 300.0 | 11.81 | 300.0 | 11.81 | 300.0 | 11.81 |
| | B - Centre to Top | 333 | 13.11 | 333 | 13.11 | 333.0 | 13.11 | 408.0 | 16.06 | 408.0 | 16.06 | 524.0 | 20.62 |
| | D - Port Dia.* | 12.5 | 0.49 | 12.5 | 0.49 | 18.0 | 0.70 | 23.5 | 0.93 | 29.0 | 1.14 | 35.0 | 1.37 |
| | Wt (kg/lb) | 12.3 | 27.11 | 11.6 | 25.57 | 20.8 | 45.85 | 29.8 | 65.69 | 36.4 | 80.24 | 43.8 | 96.56 |

*Regular bore shown, full port refer to drawing.

CV FACTORS

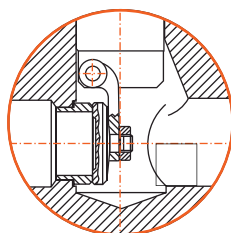
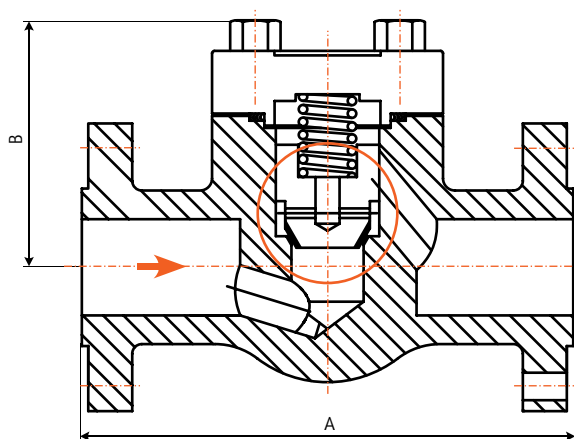
| Class | Size | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
|-----------|-------------------|------|------|-----|--------|--------|------|
| 150~800LB | Typical Cv Factor | 2.0 | 3.0 | 5.5 | 11.5 | 17.0 | 21.0 |

Dimensions are indicative and vary according to standard, port design and body material. Refer to as-built drawing.

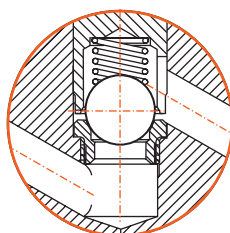
INTEGRAL FLANGED CHECK VALVES BOLTED, WELDED & PRESSURE SEAL COVER CLASS 150 TO 2500

DESIGN FEATURES

- Bolted, welded and pressure seal bonnet.
- Integral flanged.
- Regular port and full port.
- Flanged to ANSI B16.5.
- Other flanging available.
- Alternative trim materials available.
- Spring can be fitted for vertical service to ball and piston type.



Swing check

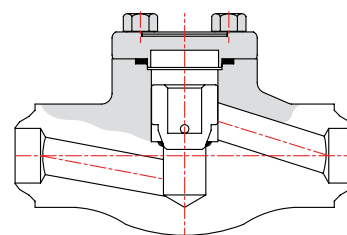


Ball check

MATERIALS

| No. | Part Name |
|-----|----------------|
| 1 | Body |
| 2 | Disc |
| 3 | Gasket |
| 4 | Cover |
| 5 | Cover Bolt |
| 6 | Name Plate |
| 7 | Ball |
| 8 | Seat Ring |
| 9 | Disc |
| 10 | Retaining Ring |
| 11 | Hinge |
| 12 | Hinge Pin |
| 13 | Support |

A = Face to Face
B = Centre to top
D = Port Diameter



Butt Weld: ASME B16.25
Refer to drawing.

STANDARDS

- Construction - API 602, BS 5352 & ASME B16.34 (ISO 15761)
- End Connections - Socket Weld : ANSI/ASME B16.11
Thread : ANSI/ASME B1.20.1
Butt Weld : ANSI/ASME B16.25
Flanged : ANSI/ASME B16.5
- Inspection & Test - API 598



Bolted Bonnet

INTEGRAL FLANGED CHECK VALVES

FLANGED DIMENSIONS - REGULAR BORE*

| ANSI Class | Size | | 1/2" | | 3/4" | | 1" | | 1-1/4" | | 1-1/2" | | 2" | |
|--------------------------------|-------------------|----------------|-------------------------------------|-------|-------|-------|-------|-------|--------|------|--------|--------|-------|--------|
| 150 | A - Face to Face | Piston or Ball | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in |
| | | | 108.0 | 4.25 | 117.0 | 4.60 | 127.0 | 5.0 | 140.0 | 5.5 | 165.0 | 6.5 | 203.0 | 8.0 |
| | Swing | | Same as Piston or Ball Check Valve | | | | | | | | | | | |
| | B - Centre to Top | | 46.0 | 1.81 | 56.0 | 2.2 | 65.5 | 2.58 | 74.6 | 2.94 | 74.6 | 2.94 | 100.5 | 4.0 |
| | D - Port Dia.* | | 9.5 | 0.38 | 12.5 | 0.5 | 18.5 | 0.73 | 23.5 | 0.93 | 30.5 | 1.20 | 36.0 | 1.41 |
| | Wt (kg/lb) | | 1.7 | 3.7 | 2.4 | 5.3 | 3.8 | 8.4 | 7.7 | 17.0 | 7.7 | 17.0 | 11.4 | 25.1 |
| 300 | A - Face to Face | Piston, Ball | 152.0 | 60.0 | 178.0 | 7.0 | 203.0 | 8.0 | 216.0 | 8.5 | 229.0 | 9.0 | 267.0 | 10.5 |
| | | Swing | 140.0 | 5.5 | 152.0 | 6.0 | 165.0 | 6.5 | 229.0 | 9.0 | 241.0 | 9.5 | 267.0 | 10.5 |
| | B - Centre to Top | | 46.0 | 1.81 | 56.0 | 2.20 | 65.5 | 2.58 | 74.6 | 2.94 | 74.6 | 2.94 | 100.5 | 3.96 |
| | D - Port Dia.* | | 9.5 | 0.38 | 12.5 | 0.5 | 18.5 | 0.73 | 23.5 | 0.93 | 30.5 | 1.20 | 36.0 | 1.41 |
| | Wt (kg/lb) | | 2.2 | 4.9 | 3.3 | 7.3 | 5.1 | 11.2 | 9.9 | 21.8 | 9.9 | 21.8 | 12.9 | 28.4 |
| | | | | | | | | | | | | | | |
| 600 | A - Face to Face | Piston, Ball | 165.0 | 6.5 | 190.0 | 7.5 | 216.0 | 8.5 | 229.0 | 9.0 | 241.0 | 9.5 | 292.0 | 11.5 |
| | | Swing | Same as Piston and Ball Check Valve | | | | | | | | | | | |
| | B - Centre to Top | | 46.0 | 1.81 | 56.0 | 2.20 | 65.5 | 2.58 | 74.6 | 2.94 | 74.6 | 2.94 | 100.5 | 2.96 |
| | D - Port Dia.* | | 9.5 | 0.38 | 12.5 | 0.5 | 18.5 | 0.73 | 23.5 | 0.93 | 30.5 | 1.20 | 36.0 | 1.41 |
| | Wt (kg/lb) | | 2.5 | 5.5 | 3.9 | 8.6 | 5.7 | 12.6 | 11.2 | 24.7 | 11.2 | 24.7 | 13.8 | 30.4 |
| | | | | | | | | | | | | | | |
| 900/1500 | A - Face to Face | Piston, Ball | 216.0 | 8.5 | 229.0 | 9.0 | 254.0 | 10.0 | 279.0 | 11.0 | 305.0 | 12.0 | 368.0 | 14.5 |
| | | Swing | Same as Piston or Ball Check Valve | | | | | | | | | | | |
| | B - Centre to Top | | 62.0 | 2.44 | 68.1 | 2.68 | 84.6 | 3.33 | 100.5 | 3.96 | 102.0 | 4.02 | 124.6 | 4.91 |
| | D - Port Dia.* | | 9.5 | 0.38 | 12.5 | 0.5 | 18.5 | 0.73 | 23.5 | 0.93 | 30.5 | 1.20 | 36.0 | 1.41 |
| | Wt (kg/lb) | | 3.0 | 6.6 | 4.3 | 9.5 | 5.9 | 13.0 | 11.6 | 25.6 | 11.6 | 25.6 | 14.0 | 30.8 |
| | | | | | | | | | | | | | | |
| 2500 (Pressure Seal Bonnet) | A - Face to Face | Piston, Ball | 264.0 | 10.39 | 273.0 | 10.74 | 308.0 | 12.12 | | | 387.5 | 15.25 | 454.0 | 17.87 |
| | | Swing | Same as Piston or Ball Check Valve | | | | | | | | | | | |
| | B - Centre to Top | | 128.0 | 5.03 | 130.0 | 5.11 | 152.0 | 5.98 | | | 188.0 | 7.40 | 190.0 | 7.48 |
| | D - Port Dia.* | | 12.5 | 0.49 | 12.5 | 0.49 | 18.0 | 0.71 | | | 29.0 | 1.14 | 35.0 | 1.37 |
| | Wt (kg/lb) | | 14.3 | 31.52 | 16.0 | 35.27 | 23.6 | 52.02 | | | 54.0 | 119.04 | 56.0 | 123.45 |
| | | | | | | | | | | | | | | |

* Port diameter shown is for piston and ball check regular port. For swing and for full bore piston and ball check refer to drawing.

CV FACTORS - LIFT CHECK*

| Class | Size | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
|-----------|-------------------|------|------|-----|--------|--------|------|
| 150~800LB | Typical Cv Factor | 1.0 | 2.7 | 5.4 | 9.5 | 11.0 | 18.0 |

* Reduced Port

CV FACTORS - SWING CHECK*

| Class | Size | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
|-----------|-------------------|------|------|------|--------|--------|-------|
| 150~800LB | Typical Cv Factor | 6.0 | 11.3 | 26.3 | 63.0 | 78.0 | 115.0 |

* Reduced Port

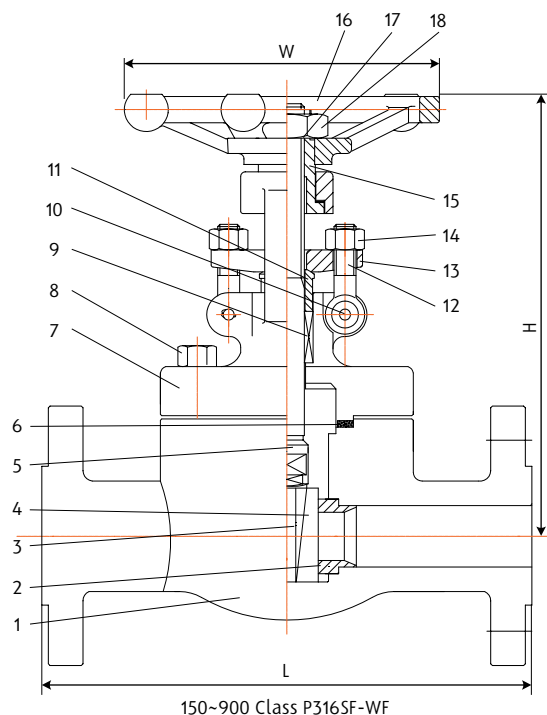
CV FACTORS - Y-PISTON CHECK*

| Class | Size | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
|-----------|-------------------|------|------|------|--------|--------|------|
| 150~800LB | Typical Cv Factor | 4.8 | 7.8 | 11.2 | 18.0 | 37.0 | 69.2 |

* Full Port

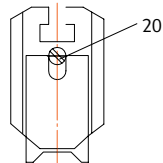
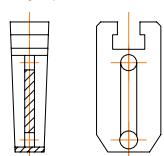
PARALLEL SLIDE GATE VALVE

CAT P316SF-WF CLASS 150-2500 (15~50NB)

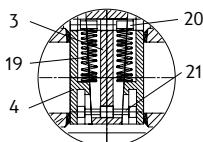
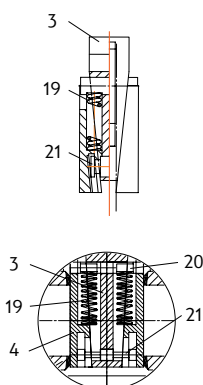
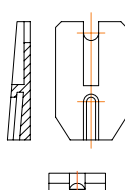


150~900 Class P316SF-WF

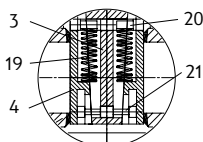
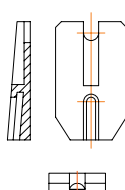
Wedge Spreader Rocker Die



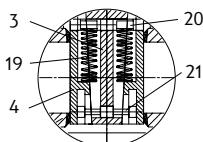
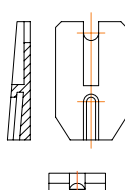
Parallel Disc Gate



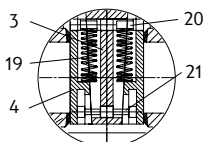
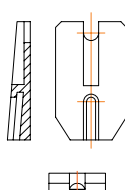
Parallel Disc Gate



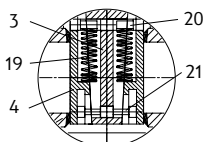
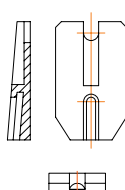
Parallel Disc Gate



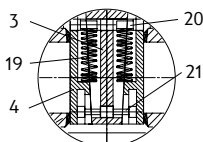
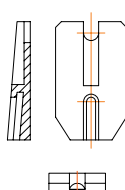
Parallel Disc Gate



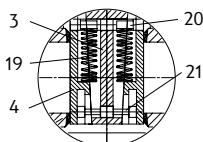
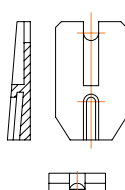
Parallel Disc Gate



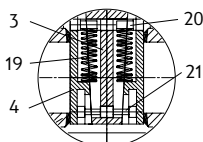
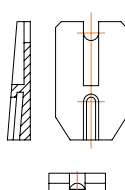
Parallel Disc Gate



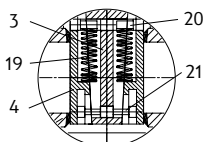
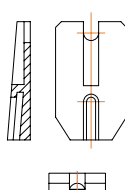
Parallel Disc Gate



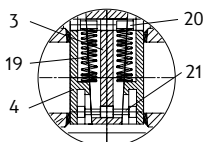
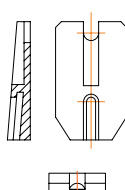
Parallel Disc Gate



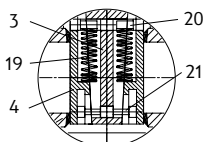
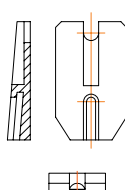
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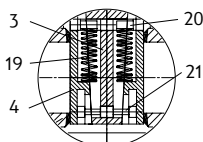
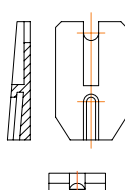
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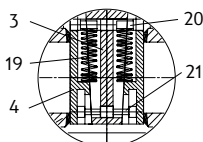
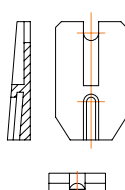
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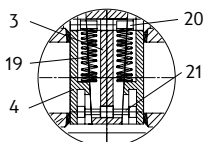
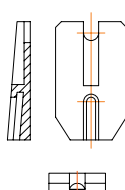
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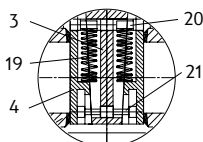
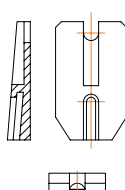
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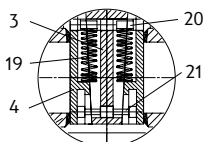
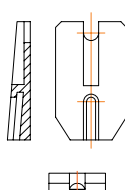
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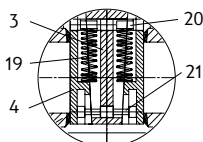
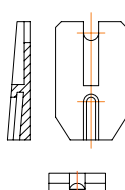
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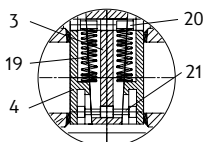
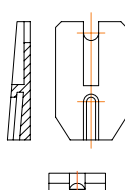
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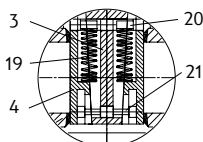
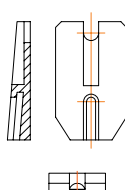
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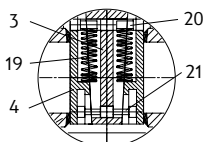
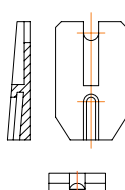
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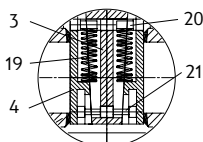
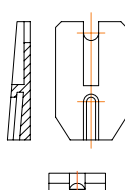
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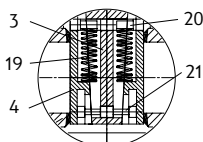
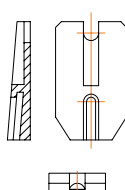
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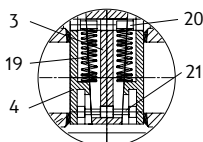
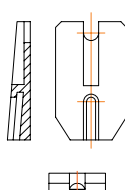
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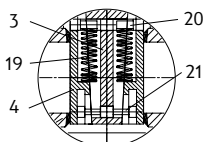
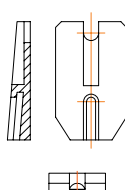
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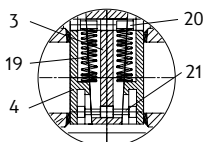
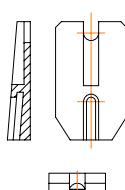
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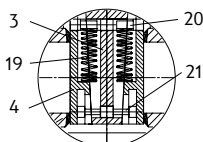
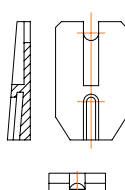
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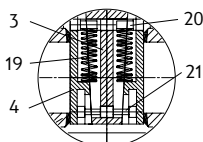
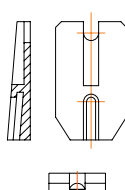
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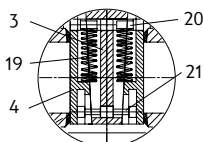
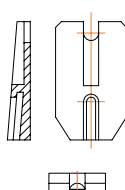
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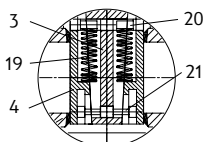
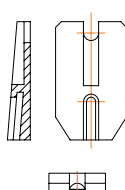
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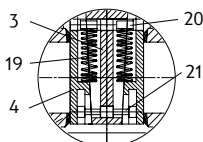
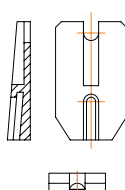
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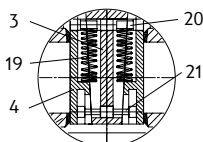
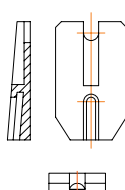
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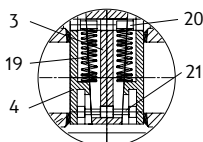
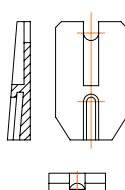
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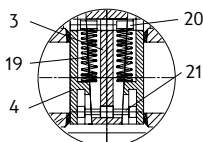
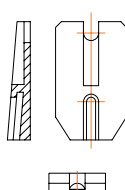
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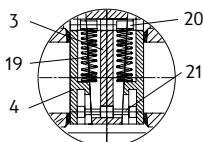
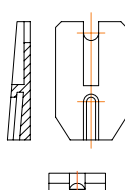
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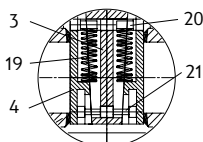
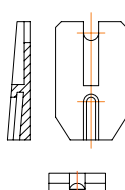
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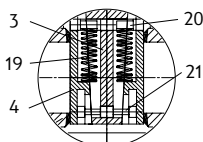
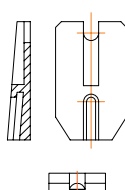
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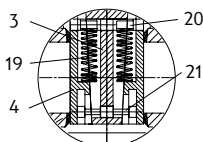
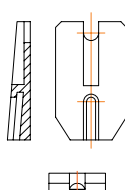
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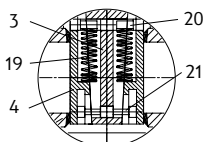
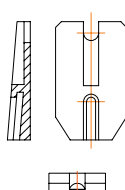
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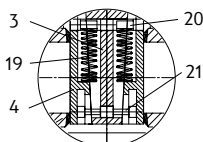
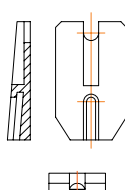
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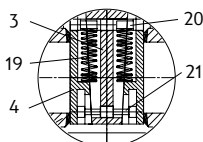
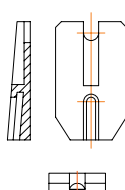
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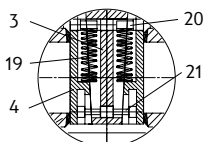
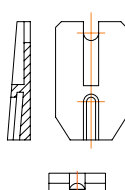
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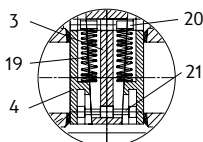
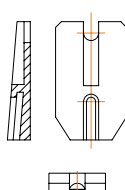
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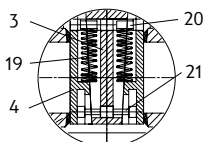
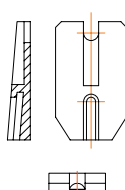
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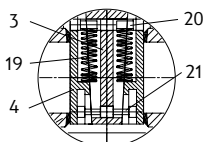
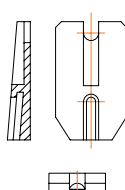
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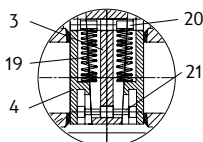
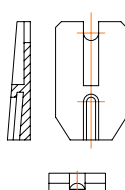
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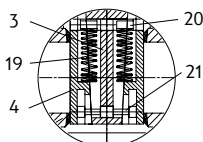
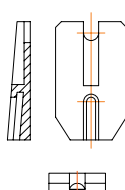
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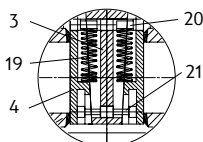
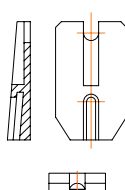
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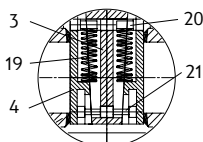
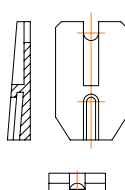
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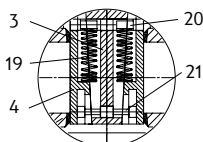
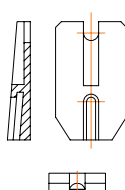
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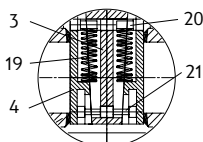
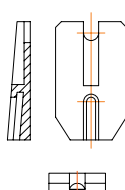
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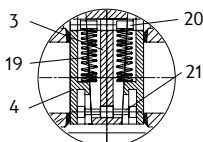
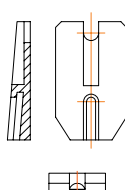
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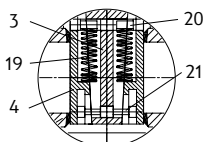
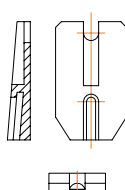
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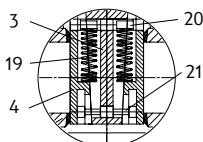
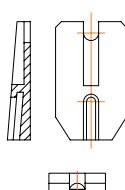
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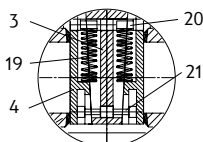
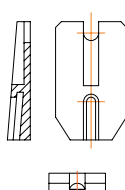
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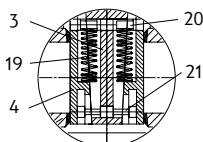
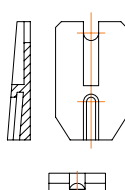
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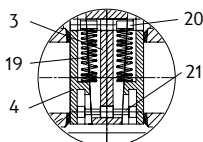
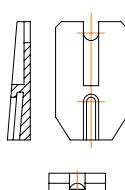
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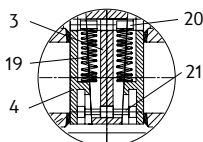
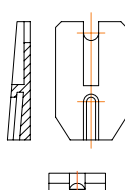
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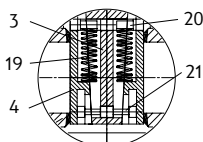
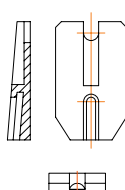
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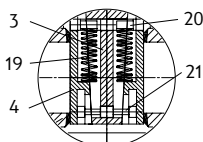
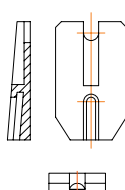
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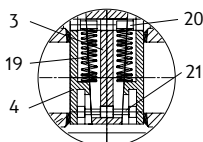
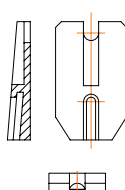
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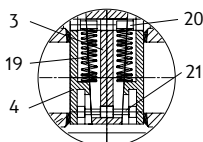
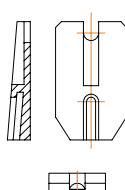
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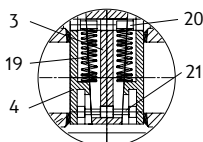
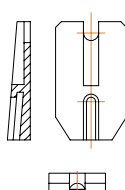
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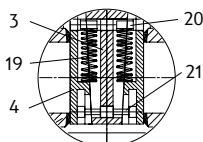
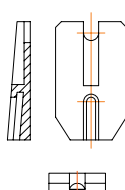
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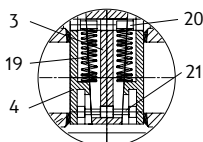
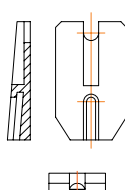
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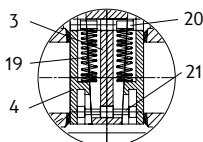
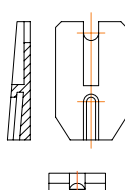
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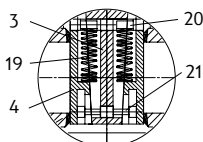
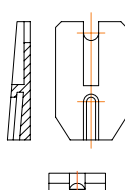
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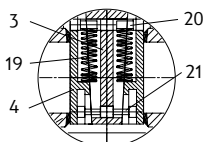
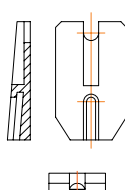
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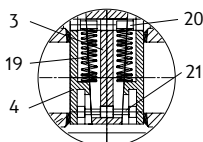
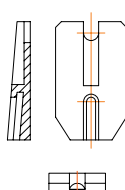
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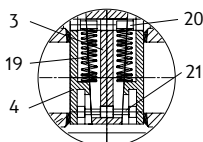
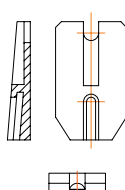
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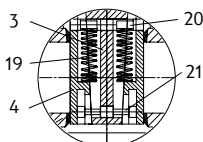
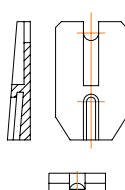
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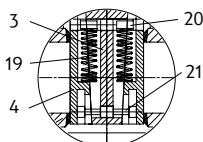
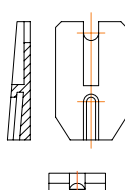
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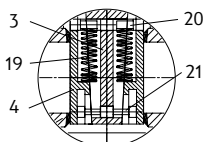
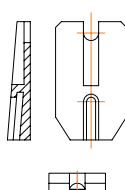
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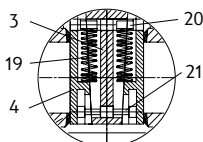
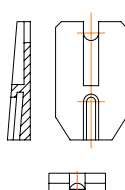
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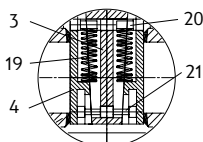
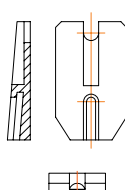
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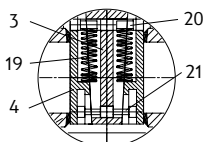
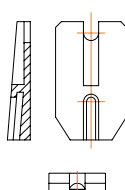
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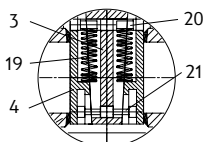
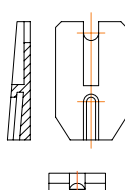
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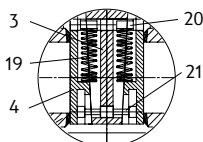
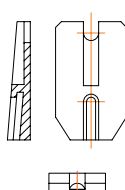
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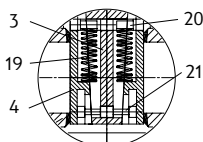
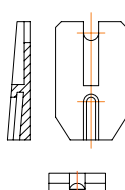
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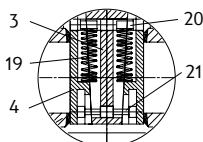
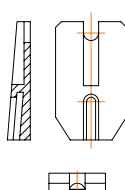
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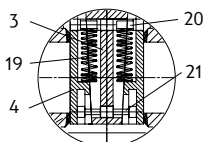
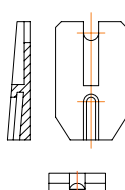
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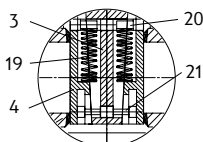
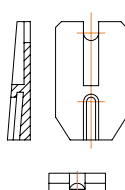
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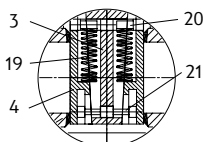
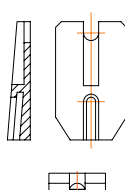
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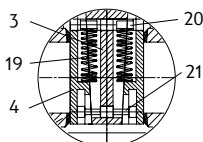
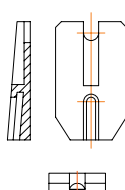
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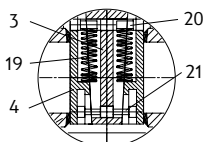
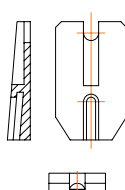
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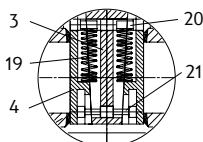
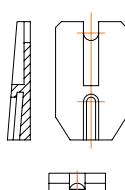
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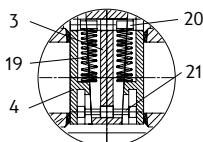
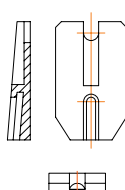
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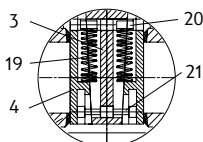
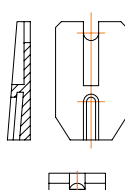
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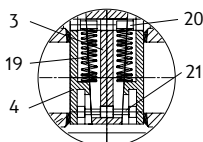
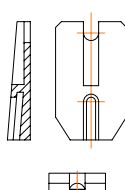
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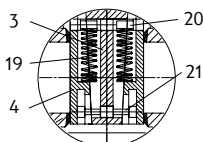
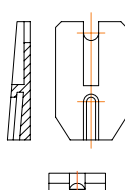
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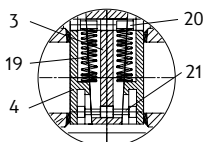
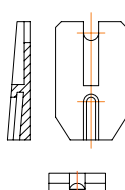
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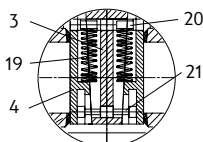
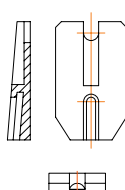
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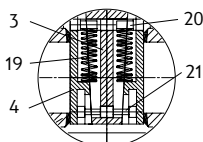
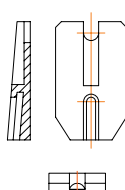
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produces isolation,
control and flow reversal
protection products for
severe and critical service
media in utility, steam,
pipelines, oil & gas
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APV valves and pipeline
products form the most
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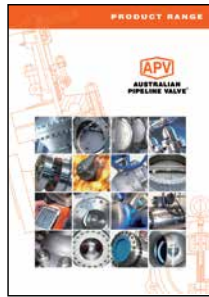
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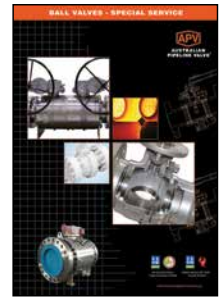
Product Brochure



**Ball Valves Floating
& Trunnion Mounted**



**Ball Valves
Floating Small Bore**



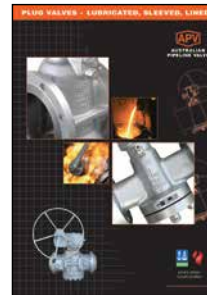
**Ball Valves
Special Service**



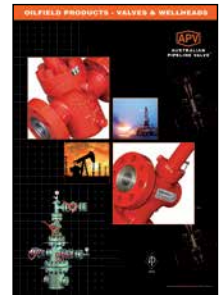
**Gate, Globe & Check
Valves - Cast Steel**



**Gate, Globe & Check
Valves - Forged Steel**



**Plug Valves Lubricated,
Sleeved & Lined**



**Oilfield Products
Valves & Wellheads**

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Gearboxes**



**Flowturn Ball Valves
Multiway & Deadman**



**Flowturn Gate, Globe
& Check Valves**



**Flowturn
Instrument Valves**



**Flowturn Strainers
& Sight Glasses**



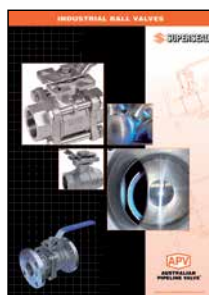
**Steamco
Steam Valves**



**Supercheck
Wafer Check Valves**



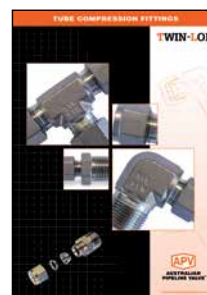
**Superseal
Butterfly Valves**



**Superseal
Industrial Ball Valves**



Torqturn Actuators

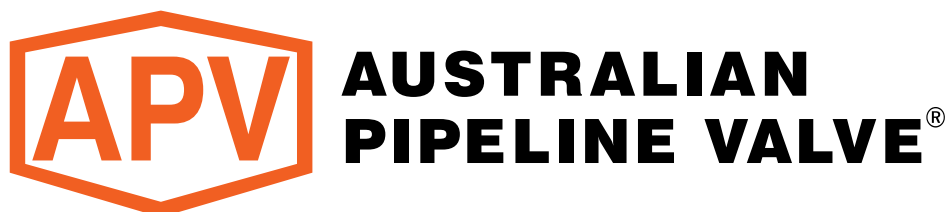


TwinLok Tube Fittings

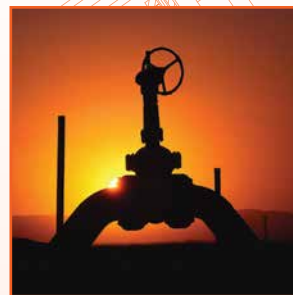


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