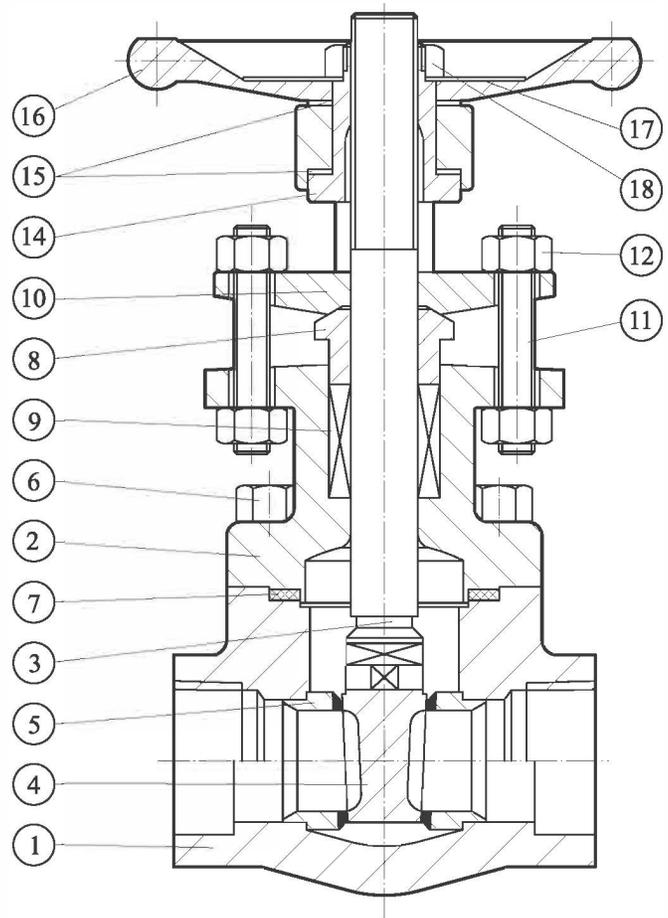


| Trim Material | | | | |
|----------------------|--------------|-------------------------|-----------------------------|----------------|
| Trim Code | API Trim No. | Wedge Surface Part No.4 | Seat Ring Surface Part No.5 | Stem Part No.3 |
| 1 | - | 13CR | 13CR | F6A |
| 2 | 5 | HF | HF | F6A |
| 3 | 8 | 13CR | HF | F6A |
| 4 | 9 | Monel | Monel | Monel |
| 5 | 10 | 316 | 316 | F316 |
| 6 | 11 | Monel | HF | Monel |
| 7 | 12 | 316 | HF | F316 |
| 8 | - | 304 | 304 | F304 |
| 9 | - | 304L | 304L | 304L |
| 0 | - | 316L | 316L | 316L |
| A | - | F51 | F51 | F51 |
| B | 19 | INCONEL 625 | INCONEL 625 | INCONEL 625 |
| C | 16 | HF | HF | F316 |
| D | - | F53 | F53 | F53 |
| E | - | F55 | F55 | F55 |
| F | 19 | INCONEL 825 | INCONEL 825 | INCONEL 825 |



Standard Material Specifications

| No. | Part Name | Carbon Steel to ASTM | | Alloy Steel to ASTM | Stainless Steel to ASTM | | | |
|-----|---------------|----------------------|-------------|----------------------|-------------------------|-------------------------|-------------------------|------------------------|
| | | A105N | A350 LF2 | A182 F11 | A182 F304(L) | A182 F316(L) | A182 F51 | |
| 1 | Body | A105N | A350 LF2 | A182 F11 | A182 F304(L) | A182 F316(L) | A182 F51 | |
| 2 | Bonnet | A105N | A350 LF2 | A182 F11 | A182 F304(L) | A182 F316(L) | A182 F51 | |
| 3 | Stem | A182 F6a | | A182 F316 | A182 F6a | A182 F304(L) | A182 F316(L) | A182 F51 |
| 4 | Wedge | A182 F6a | A182 F6a/HF | A182 F316 | A182 F6a/HF | A182 F304(L)/HF | A182 F316(L)/HF | A182 F51/HF |
| 5 | Seat Ring | A276 410/HF | | A182 F316/HF | A276 410/HF | A182 F304(L)/HF | A182 F316(L)/HF | A182 F51/HF |
| 6 | Bonnet Bolt | A193 B7 | | A320 L7 | A193 B16 | A193 B8 | A193 B8MA | A193 B8MA |
| 7 | Gasket | SPW 304 +Graphite | | SPW 316 +Graphite | SPW 304 +Graphite | SPW 304(L) +Graphite | SPW 316(L) +Graphite | SPW 31803 +Graphite |
| 8 | Gland | A276 410 | | A182 F316 | A276 410 | A182 F304(L) | A182 F316(L) | A182 F51 |
| 9 | Packing | Flexible Graphite | | | | | | |
| 10 | Gland Flange | A105N | A350 LF2 | A105N | A182 F304 | A182 F316 | | |
| 11 | Gland Bolt | A193 B8 | | A193 B8 | A193 B8 | A193 B8MA | | |
| 12 | Gland Nut | A194 2H | | A194 7 | A194 4 | A194 8 | A194 8MA | |
| 14 | Yoke Nut | A276 410 | | | | | | |
| 15 | Sleeve Washer | Stainless Steel | | | | | | |
| 16 | Handwheel | A197 | | | | | | |
| 17 | Nameplate | AL | | | | | | |
| 18 | Handwheel Nut | A194 2H | | | | | | |

Features

- Standard Port
- Full Port is optional
- Outside Screw and Yoke (OS & Y) , Rising Stem
- Two Piece Self-aligning Packing Gland
- Bolted Bonnet or Welded Bonnet
- Integral Backseat
- Threaded Ends or Socket Welding Ends
- Extended Body or Pup Ends available

Specifications

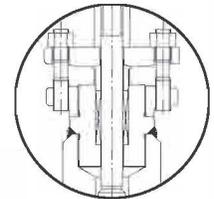
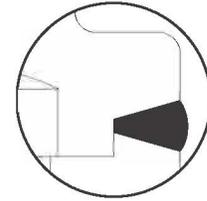
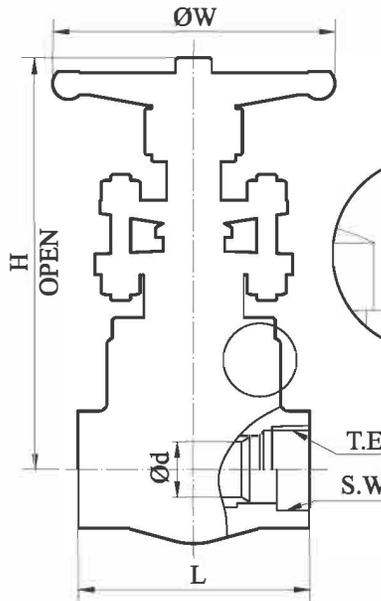
Basic Design: **API 602**
ISO 15761 ASME B16.34

Socket Welding End (S.W): **ASME B16.11**

Threaded End (T.E): **ASME B1.20.1**

Test and Inspection: **API 598**

API 622 Packing, API 624 certified available upon request
ISO 15848-1 certified



Bolted Bonnet or Welded Bonnet
for Class 1500LB

Threaded and Seal Weld Bonnet
for Class 2500LB

| 800LB | | Valve Size | | | | | | |
|------------------|----|------------|------|------|------|-------|-------|-------|
| Description | | - | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
| Standard Port | | - | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
| Full Port | | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| Flow Port d | in | 0.24 | 0.39 | 0.53 | 0.69 | 0.91 | 1.13 | 1.44 |
| | mm | 6 | 10 | 13.5 | 17.5 | 23 | 28.6 | 36.5 |
| Face to Face L | in | 3.11 | 3.11 | 3.62 | 4.37 | 4.65 | 4.65 | 5.20 |
| | mm | 79 | 79 | 92 | 111 | 118 | 118 | 132 |
| Height to Open H | in | 6.22 | 6.22 | 6.42 | 7.76 | 8.86 | 9.72 | 10.51 |
| | mm | 158 | 158 | 163 | 197 | 225 | 247 | 267 |
| Handwheel Dia W | in | 3.94 | 3.94 | 3.94 | 4.72 | 5.91 | 5.91 | 5.91 |
| | mm | 100 | 100 | 100 | 120 | 150 | 150 | 150 |
| Weight | Kg | 2 | 2 | 2.1 | 3.6 | 4.8 | 5.5 | 7.3 |

| 2500LB | | Valve Size | | | | |
|------------------|----|------------|-------|-------|-------|-------|
| Description | | 1/2 | 3/4 | 1 | 1 1/2 | 2 |
| Standard Port | | 1/2 | 3/4 | 1 | 1 1/2 | 2 |
| Full Port | | 1/2 | 3/4 | 1 | 1 1/2 | 2 |
| Flow Port d | in | 0.39 | 0.53 | 0.69 | 1.12 | 1.42 |
| | mm | 10 | 13.5 | 17.5 | 28.5 | 36 |
| Face to Face L | in | 6.10 | 6.10 | 7.32 | 9.13 | 11.18 |
| | mm | 155 | 155 | 186 | 232 | 284 |
| Height to Open H | in | 11.57 | 11.81 | 12.64 | 20.51 | 22.64 |
| | mm | 294 | 300 | 321 | 521 | 575 |
| Handwheel Dia W | in | 8.66 | 8.66 | 9.84 | 11.81 | 13.78 |
| | mm | 220 | 220 | 250 | 300 | 350 |

| 1500LB | | Valve Size | | | | | | |
|------------------|----|------------|------|------|------|-------|-------|-------|
| Description | | - | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
| Standard Port | | - | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
| Full Port | | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| Flow Port d | in | 0.31 | 0.37 | 0.50 | 0.69 | 0.91 | 1.12 | 1.44 |
| | mm | 8 | 9.5 | 12.7 | 17.5 | 23 | 28.5 | 36.5 |
| Face to Face L | in | 3.62 | 3.62 | 4.37 | 4.65 | 4.65 | 5.20 | 5.91 |
| | mm | 92 | 92 | 111 | 118 | 118 | 132 | 150 |
| Height to Open H | in | 6.42 | 6.42 | 6.42 | 7.76 | 8.86 | 9.72 | 10.51 |
| | mm | 163 | 163 | 163 | 197 | 225 | 247 | 267 |
| Handwheel Dia W | in | 3.94 | 3.94 | 4.72 | 5.91 | 5.91 | 5.91 | 7.87 |
| | mm | 100 | 100 | 120 | 150 | 150 | 150 | 200 |
| Weight | Kg | 2.25 | 2.25 | 3.75 | 5.4 | 5.9 | 8.5 | 13.65 |

| 2500LB | | Valve Size | | | |
|------------------|----|------------|-------|-------|-------|
| Description | | 1/2 | 3/4 | 1 | 1 1/2 |
| Standard Port | | 1/2 | 3/4 | 1 | 1 1/2 |
| Full Port | | 1/2 | 3/4 | 1 | 1 1/2 |
| Flow Port d | in | 0.50 | 0.69 | 0.91 | 1.44 |
| | mm | 12.7 | 17.5 | 23 | 36.5 |
| Face to Face L | in | 6.10 | 7.32 | 9.13 | 11.18 |
| | mm | 155 | 186 | 232 | 284 |
| Height to Open H | in | 11.73 | 12.60 | 19.57 | 22.68 |
| | mm | 298 | 320 | 497 | 576 |
| Handwheel Dia W | in | 8.66 | 8.66 | 11.81 | 13.78 |
| | mm | 220 | 220 | 300 | 350 |