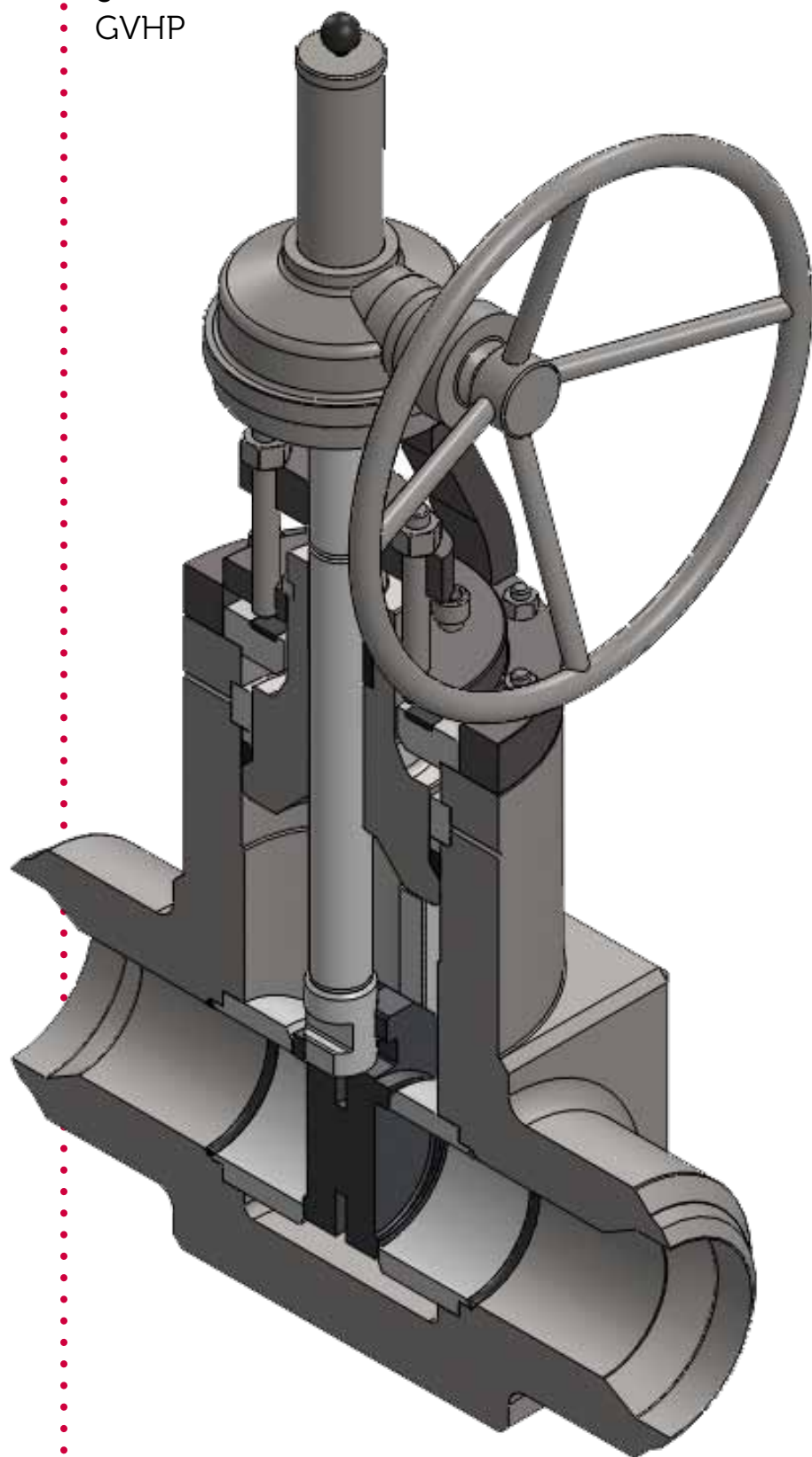




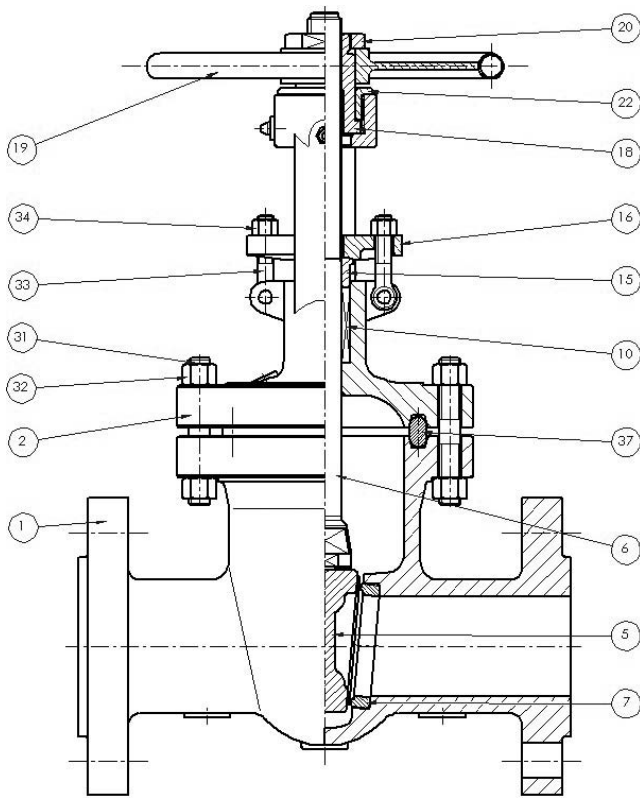
Gate **Valves**

Gate Valves

• GVLP
• &
• GVHP



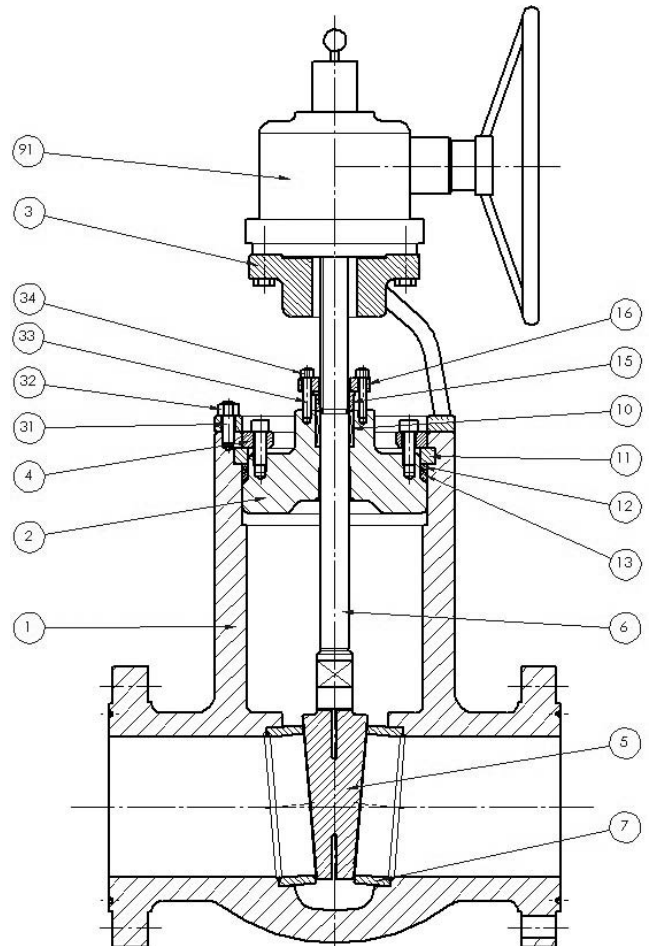
LOW PRESSURE GATE VALVE (ANSI 150-600)



- **GVLP**
- OS&Y, Rising Stem, Flexible or Solid Wedge,
- Bolted Bonnet, Welded-in
- or Threaded Seat Ring
-
- **Basic Design** API 600
- **Face to Face /**
- **End to End Dimension** ANSI B 16.10
-
- **Flanged Ends** ANSI B 16.5 for NPS ≤ 24"
- ANSI B 16.47 for NPS > 24"
-
- **BW Ends** ANSI B 16.25
-
- **Tested to** API 598

HIGH PRESSURE GATE VALVE (ANSI 900-2500)

- **GVHP**
- OS&Y, Rising Stem, Flexible or Solid Wedge,
- Pressure Seal Bonnet, Welded-in
- or Threaded Seat Ring
-
- **Basic Design** API 600
- **Face to Face /**
- **End to End Dimension** ANSI B 16.10
-
- **Flanged Ends** ANSI B 16.5 for NPS ≤ 24"
- ANSI B 16.47 for NPS > 24"
-
- **BW Ends** ANSI B 16.25
-
- **Tested to** API 598



| STANDARD MATERIALS FOR LP GATE VALVE | | CONFIGURATIONS | | | | | | | | | |
|---|-------------------|--|----------|-------------|----------|----------|----------|-----------------|-----------|----------|-----------|
| | | CARBON STEEL | | ALLOY STEEL | | | | STAINLESS STEEL | | | |
| POS. | ITEM | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | BODY | A216 WCB | A352 LCB | A217 WC1 | A217 WC6 | A217 WC9 | A217 WC5 | A351 CF8 | A351 CF8M | A351 CF3 | A351 CF3M |
| 2 | BONNET | A216 WCB | A352 LCB | A217 WC1 | A217 WC6 | A217 WC9 | A217 WC5 | A351 CF8 | A351 CF8M | A351 CF3 | A351 CF3M |
| 5 | WEDGE | TO CHOOSE ACCORDING TO DATA PROCESS AND TRIM MATERIALS TABLE BELOW, CONFIGURATIONS FROM "A" TO "E" | | | | | | | | | |
| 6 | STEM | | | | | | | | | | |
| 7 | SEAT | | | | | | | | | | |
| 10 | PACKING | | | | | | | | | | |
| 15 | GLAND | SS410 | | | | | | SS304 | SS316 | SS304L | SS316L |
| 16 | GLAND FLANGE | A105 | | | | | | SS304 | SS316 | SS304L | SS316L |
| 18 | STEM NUT | SS410 | | | | | | | | | |
| 19 | HANDWHEEL | CS | | | | | | SS | | | |
| 20 | HANDWHEEL NUT | CS | | | | | | SS | | | |
| 22 | YOKE NUT | CS | | | | | | SS | | | |
| 31 | BODY-BONNET STUD | A193 B7 | A320 L7 | A193 B7 | A193 B16 | A193 B16 | A193 B16 | A193 B8 | A193 B8 | A193 B8 | A193 B8 |
| 32 | BODY-BONNET NUT | A194 2H | A194 4 | A194 2H | A194 4 | A194 4 | A194 4 | A194 8 | A194 8 | A194 8 | A194 8 |
| 33 | GLAND FLANGE STUD | A193 B7 | A320 L7 | A193 B7 | A193 B7 | A193 B7 | A193 B7 | A193 B8 | A193 B8 | A193 B8 | A193 B8 |
| 34 | GLAND FLANGE NUT | A194 2H | A194 4 | A194 2H | A194 2H | A194 2H | A194 2H | A194 8 | A194 8 | A194 8 | A194 8 |
| 37 | GASKET | SS+GRAPHITE OR SS+PTFE | | | | | | | | | |
| 91 | GEAR | COMMERCIAL | | | | | | | | | |

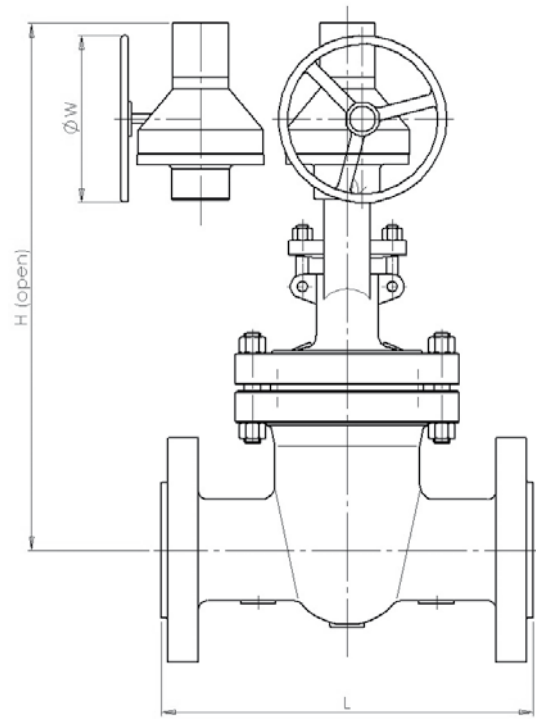
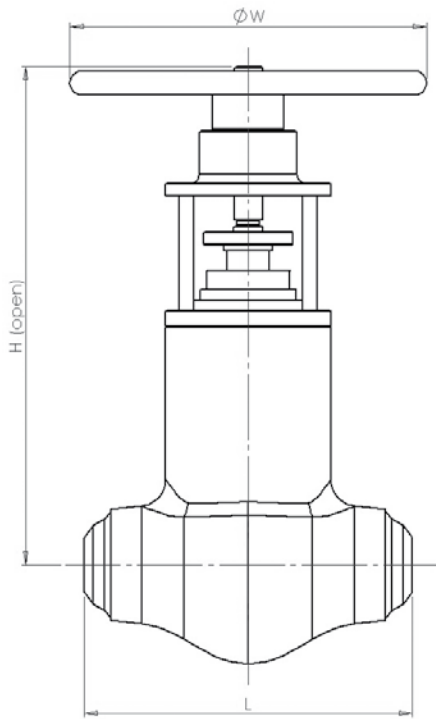
NOTES:
- OTHER MATERIALS ALSO AVAILABLE ON REQUEST
- MATERIALS ACCORDING TO NACE AND OTHER STANDARDS ALSO AVAILABLE ON REQUEST
- MATERIALS CAN VARY DEPENDING ON THE PROJECT

| STANDARD MATERIALS FOR HP GATE VALVE | | CONFIGURATIONS | | | | |
|---|-------------------|--|----------|-------------|----------|-----------------|
| | | CARBON STEEL | | ALLOY STEEL | | STAINLESS STEEL |
| POS. | ITEM | 1 | 2 | 3 | 4 | 5 |
| 1 | BODY | A216 WCB | A217 WC6 | A217 WC9 | A351 CF8 | A351 CF8M |
| 2 | BONNET | A216 WCB | A217 WC6 | A217 WC9 | A351 CF8 | A351 CF8M |
| 3 | YOKE | A216 WCB | A217 WC6 | A217 WC9 | A351 CF8 | A351 CF8M |
| 4 | FLANGE | A105 | | | SS304 | SS316 |
| 5 | WEDGE | TO CHOOSE ACCORDING TO DATA PROCESS AND TRIM MATERIALS TABLE BELOW, CONFIGURATIONS FROM "A" TO "E" | | | | |
| 6 | STEM | | | | | |
| 7 | SEAT | | | | | |
| 8 | RETAINER FLANGE | | | | | |
| 10 | PACKING | BRAIDED GRAPHITE+DIEFORMED GRAPHITE OR PTFE | | | | |
| 11 | SPLIT RING | CS | | | SS | |
| 12 | SPACER RING | CS | | | SS | |
| 13 | SEAL RING | SS+GRAPHITE OR SS316L | | | | |
| 14 | HALF RING | CS | | | SS | |
| 15 | GLAND | SS410 | | | SS304 | SS316 |
| 16 | GLAND FLANGE | A105 | | | SS304 | SS316 |
| 18 | STEM NUT | SS410 | | | | |
| 19 | HANDWHEEL | CS | | | SS | |
| 20 | HANDWHEEL NUT | CS | | | SS | |
| 22 | YOKE NUT | CS | | | SS | |
| 31 | BODY-BONNET STUD | A193 B7 | A193 B7 | A193 B7 | A193 B8 | A193 B8 |
| 32 | BODY-BONNET NUT | A194 2H | A194 2H | A194 2H | A194 8 | A194 8 |
| 33 | GLAND FLANGE STUD | A193 B7 | A193 B7 | A193 B7 | A193 B8 | A193 B8 |
| 34 | GLAND FLANGE NUT | A194 2H | A194 2H | A194 2H | A194 8 | A194 8 |
| 37 | GASKET | SS+GRAPHITE OR SS+PTFE | | | | |
| 91 | GEAR | COMMERCIAL | | | | |

NOTES:
- OTHER MATERIALS ALSO AVAILABLE ON REQUEST
- FORGED MATERIALS ALSO AVAILABLE ON REQUEST
- MATERIALS ACCORDING TO NACE AND OTHER STANDARDS ALSO AVAILABLE ON REQUEST
- MATERIALS CAN VARY DEPENDING ON THE PROJECT

| TRIM MATERIALS | | CONFIGURATIONS | | | | |
|----------------|-------|----------------|-------|-------|-------|-------------|
| POS. | ITEM | A | B | C | D | E |
| 5 | WEDGE | SS410 | SS304 | SS316 | MONEL | HASTELLOY B |
| 6 | STEM | SS410 | SS304 | SS316 | MONEL | HASTELLOY B |
| 7 | SEAT | SS410 | SS304 | SS316 | MONEL | HASTELLOY B |

NOTES:
- STELLITE HAYNES GR. 6 CLADDING ON REQUEST
- OTHER MATERIALS ALSO AVAILABLE ON REQUEST



OVERALL DIMENSIONS FOR MANUAL OPERATED VALVES

| NPS DN | Class | 2" 50 | 2-1/2" 65 | 3" 80 | 4" 100 | 6" 150 | 8" 200 | 10" 250 | 12" 300 | 14" 350 | 16" 400 | |
|-----------|-------|----------|--------------|----------|-----------|-----------|-----------|------------|------------|------------|------------|------|
| RF | 150 | 178 | 190 | 203 | 229 | 267 | 292 | 330 | 356 | 381 | 406 | |
| | 300 | 216 | 241 | 283 | 305 | 403 | 419 | 457 | 502 | 762 | 838 | |
| | 600 | 292 | 330 | 356 | 432 | 559 | 660 | 787 | 838 | 889 | 991 | |
| | 900 | 368 | 419 | 381 | 457 | 610 | 737 | 838 | 965 | 1029 | 1130 | |
| | 1500 | 368 | 419 | 470 | 546 | 705 | 832 | 991 | 1130 | 1257 | 1384 | |
| 2500 | 451 | 508 | 578 | 673 | 917 | 1022 | 1270 | 1422 | - | - | | |
| L BW | 150 | 216 | 241 | 283 | 305 | 403 | 419 | 457 | 502 | 572 | 610 | |
| | 300 | 216 | 241 | 283 | 305 | 403 | 419 | 457 | 502 | 762 | 838 | |
| | 600 | 292 | 330 | 356 | 432 | 559 | 660 | 787 | 838 | 889 | 991 | |
| | 900 | 216 | 254 | 305 | 355 | 508 | 660 | 787 | 914 | 991 | 1092 | |
| | 1500 | 216 | 254 | 305 | 406 | 559 | 711 | 864 | 991 | 1067 | 1194 | |
| 2500 | 279 | 330 | 368 | 457 | 610 | 762 | 914 | 1041 | 1118 | 1245 | | |
| RTJ | 150 | 191 | 203 | 216 | 241 | 279 | 305 | 343 | 368 | 394 | 419 | |
| | 300 | 232 | 257 | 298 | 321 | 419 | 435 | 473 | 518 | 778 | 854 | |
| | 600 | 295 | 333 | 359 | 435 | 562 | 664 | 791 | 841 | 892 | 994 | |
| | 900 | 371 | 422 | 384 | 460 | 613 | 740 | 841 | 968 | 1038 | 1140 | |
| | 1500 | 371 | 422 | 473 | 549 | 711 | 841 | 1000 | 1146 | 1276 | 1407 | |
| 2500 | 454 | 514 | 584 | 683 | 927 | 1038 | 1292 | 1444 | - | - | | |
| H (Open) | 150 | 410 | 475 | 535 | 615 | 810 | 990 | 1190 | 1405 | 1615 | 1815 | |
| | 300 | 400 | 477 | 545 | 650 | 880 | 1040 | 1275 | 1440 | 1650 | 1840 | |
| | 600 | 475 | 553 | 595 | 715 | 970 | 1125 | 1330 | 1520 | 1730 | 1835 | |
| | 900 | 555 | 640 | 680 | 800 | 1085 | 1375 | 1495 | 1550 | 1960 | 2210 | |
| | 1500 | 555 | 640 | 770 | 875 | 1095 | 1375 | 1655 | 1835 | 2150 | 2260 | |
| 2500 | 610 | 655 | 755 | 850 | 1255 | 1375 | 1685 | 1875 | - | - | | |
| W | 150 | 200 | 200 | 250 | 250 | 300 | 350 | 450 | 500 | 450 | 450 | |
| | 300 | 200 | 250 | 250 | 300 | 350 | 450 | 500 | 550 | 450 | 450 | |
| | 600 | 250 | 250 | 300 | 350 | 500 | 550 | 700 | 600 | 600 | 600 | |
| | 900 | 300 | 350 | 350 | 400 | 550 | 450 | 600 | 600 | 600 | 750 | |
| | 1500 | 300 | 450 | 450 | 550 | 300 | 450 | 600 | 600 | 750 | 750 | |
| 2500 | 500 | 500 | 600 | 600 | 450 | 450 | 600 | 750 | - | - | | |
| Weight | RF | 150 | 20 | 30 | 35 | 55 | 85 | 140 | 220 | 325 | 390 | 555 |
| | | 300 | 30 | 40 | 55 | 85 | 140 | 240 | 335 | 540 | 700 | 1010 |
| | | 600 | 41 | 60 | 90 | 130 | 255 | 415 | 625 | 785 | 1290 | 1820 |
| | | 900 | 50 | 85 | 95 | 155 | 345 | 625 | 950 | 1295 | 1720 | 2380 |
| | | 1500 | 60 | 95 | 130 | 185 | 395 | 795 | 1370 | 2120 | 2800 | 3870 |
| | 2500 | 125 | 175 | 195 | 230 | 720 | 1295 | 2250 | 3090 | - | - | |
| | BW | 150 | 17 | 26 | 30 | 50 | 80 | 120 | 205 | 295 | 350 | 510 |
| | | 300 | 25 | 35 | 50 | 70 | 120 | 195 | 270 | 435 | 595 | 850 |
| | | 600 | 35 | 50 | 70 | 105 | 210 | 330 | 500 | 640 | 1120 | 1450 |
| | | 900 | 40 | 65 | 85 | 120 | 270 | 525 | 760 | 1090 | 1450 | 2020 |
| 1500 | | 50 | 75 | 85 | 130 | 295 | 590 | 675 | 1615 | 2010 | 2815 | |
| 2500 | 90 | 135 | 145 | 160 | 500 | 895 | 1550 | 2330 | - | - | | |

NOTES:

- OTHER SIZES ALSO AVAILABLE ON REQUEST
- ELECTRICAL ACTUATOR ALSO AVAILABLE ON REQUEST