

Gate Valve

SICCA 800-2500 GTF

Class 800 / 2500
NPS 1/4-2 Inches

Type Series Booklet



Legal information/Copyright

Type Series Booklet SICCA 800-2500 GTF

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Gate Valves

Gate Valves to ANSI/ASME

SICCA 800-2500 GTF



Main applications

- Pulp and paper industry
- Pharmaceutical industry
- Fossil-fuelled power stations
- Petrochemical industry
- Pipelines and tank farms
- Refineries
- Process engineering

Fluids handled

- Service water
- Steam
- Fluids containing gas
- Gas
- High-temperature hot water
- Heating water
- Condensate
- Cooling water
- Fire-fighting water
- Fluids containing mineral oils
- Oil
- Lubricants
- Grey water
- Feed water
- Thermal oil
- Wash water

Operating data

Operating properties

| Characteristic | Value |
|-----------------------------------|------------------|
| Nominal pressure | Class 800 - 2500 |
| Nominal size [inch] | NPS ¼ - 2 |
| Max. permissible pressure [bar] | 431 |
| Max. permissible pressure [psi] | 6250 |
| Min. permissible temperature [°C] | ≥ 0 |
| Max. permissible temperature [°C] | ≤ +816 |
| Min. permissible temperature [°F] | ≥ 0 |
| Max. permissible temperature [°F] | ≤ +1500 |

Selection as per pressure/temperature ratings (⇒ Page 6)

Body materials

Overview of available materials

| Material | Temperature limit | |
|----------------|-------------------|--------|
| | [°C] | [°F] |
| ASTM A105 | ≤ 425 | ≤ 800 |
| ASTM A182 304L | ≤ 450 | ≤ 850 |
| ASTM A182 316L | ≤ 450 | ≤ 850 |
| ASTM A182 F22 | ≤ 593 | ≤ 1100 |
| ASTM A182 F91 | ≤ 650 | ≤ 1200 |
| ASTM A182 F304 | ≤ 816 | ≤ 1500 |
| ASTM A182 F316 | ≤ 816 | ≤ 1500 |
| ASTM A350 LF2 | ≤ 425 | ≤ 800 |

Design details

Design

- Gate valve to API 602 (Class 800 / 1500)
- Gate valve to ASME B16.34 (Class 2500)
- Tested to API 598
- Body made of forged steel
- Straight-way pattern
- Bolted bonnet (Class 800)
- Welded bonnet (Class 1500 / 2500)
- Hard-faced seat/disc interface (13 % chrome steel/Stellite)
- Fully confined bonnet gasket (Class 800)
- Two-piece self-aligning gland follower
- Graphite gland packing with braided graphite packing end rings
- Solid wedge
- Stem with burnished shank
- Non-rotating stem
- Rising stem
- Non-rising handwheel
- Outside screw
- Outside yoke
- Seat ring ST6(HF) swaged
- The valves satisfy the safety requirements of Annex I of the European Pressure Equipment Directive 2014/68/EU (PED) for fluids in Groups 1 and 2.

Variants

- Position indicator
- Locking device
- Electric actuators
- Threaded ends
- Butt weld ends

Product benefits

- Long service life and high functional reliability
 - Two-piece self-aligning gland follower ensures even compression of packing rings.
 - Inconel-reinforced braided packing end rings offer smooth wiping action and prevent extrusion of graphite.
 - Burnished stem and smooth stuffing box surfaces extend the service life of the gland packing.
- Additional features ensure safe sealing to atmosphere:
 - Additional safety and blow-out protection by standard back seat.
 - Fully confined bonnet gasket with controlled compression ensures leak-proof joint.
 - Welded body/bonnet joint provides added safety at high operating pressures and operating temperatures.
 - Die-formed endless graphite packing rings reliably seal the stem passage.
- Reliable, tight shut-off
 - Hard-faced body seat made of wear-resistant and corrosion-resistant 13 % chrome steel or Stellite.
 - Perfect contact at seat/wedge interface ensures tight shut-off.

Related documents

Information/documents

| Document | Reference number |
|------------------|------------------|
| Operating manual | 0500.80 |

Purchase order specifications

Please specify the following information in all enquiries or purchase orders:

1. Type
2. Class
3. Nominal size
4. Design pressure
5. Design temperature
6. Operating pressure
7. Operating temperature
8. Differential pressure
9. Material
10. Fluid handled
11. Flow rate
12. Pipe connection
13. Pipe schedule
14. Variants
15. Reference number

Always indicate the original serial number and the year of construction when ordering spare parts.

Pressure/temperature ratings

Permissible operating pressures [bar] (in acc. with ASME B16.34 Standard Class)

| Class | Material | [°C] | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|------------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | | -29 to +38 | 93 | 149 | 204 | 260 | 316 | 343 | 371 | 399 | 427 | 454 | 482 | 510 | 538 | 566 | 593 | 621 | 649 | 677 | 704 | 732 | 760 | 788 | 816 | |
| 150 | A105 ¹⁾ | 20 | 18 | 16 | 14 | 12 | 10 | 9 | 8 | 7 | 6 | 5 | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | |
| 300 | A350 LF2 | 51 | 47 | 45 | 44 | 42 | 39 | 38 | 37 | 35 | 28 | 22 | 16 | 9 | 6 | - | - | - | - | - | - | - | - | - | - | |
| 600 | | 102 | 94 | 90 | 87 | 83 | 78 | 76 | 73 | 70 | 57 | 44 | 32 | 19 | 12 | - | - | - | - | - | - | - | - | - | - | - |
| 800 ²⁾ | | 136 | 125 | 120 | 117 | 111 | 105 | 101 | 98 | 93 | 76 | 59 | 42 | 25 | 16 | - | - | - | - | - | - | - | - | - | - | - |
| 1500 | | 256 | 234 | 226 | 219 | 208 | 196 | 189 | 184 | 175 | 142 | 110 | 79 | 47 | 30 | - | - | - | - | - | - | - | - | - | - | - |
| 2500 | | 425 | 390 | 376 | 364 | 347 | 326 | 315 | 305 | 292 | 237 | 183 | 132 | 79 | 49 | - | - | - | - | - | - | - | - | - | - | - |
| 150 | A182 F22 ³⁾ | 20 | 18 | 16 | 14 | 12 | 10 | 9 | 8 | 7 | 6 | 5 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | |
| 300 | | 52 | 52 | 50 | 49 | 46 | 42 | 41 | 39 | 37 | 35 | 33 | 31 | 27 | 18 | 12 | 8 | 5 | 3 | - | - | - | - | - | - | |
| 600 | | 103 | 103 | 100 | 97 | 92 | 83 | 81 | 78 | 73 | 70 | 67 | 62 | 52 | 37 | 24 | 15 | 9 | 6 | - | - | - | - | - | - | |
| 800 ²⁾ | | 138 | 138 | 134 | 130 | 122 | 111 | 108 | 105 | 98 | 93 | 90 | 83 | 71 | 49 | 32 | 20 | 12 | 8 | - | - | - | - | - | - | |
| 1500 | | 259 | 259 | 251 | 243 | 229 | 209 | 203 | 196 | 183 | 175 | 168 | 155 | 133 | 92 | 60 | 38 | 24 | 14 | - | - | - | - | - | - | - |
| 2500 | 431 | 431 | 419 | 405 | 382 | 348 | 338 | 326 | 305 | 292 | 280 | 258 | 222 | 154 | 100 | 63 | 39 | 24 | - | - | - | - | - | - | - | |
| 1500 | A182 F91 | 259 | 259 | 251 | 243 | 229 | 209 | 203 | 196 | 183 | 175 | 168 | 155 | 133 | 125 | 124 | 104 | 77 | 50 | - | - | - | - | - | - | |
| 2500 | | 431 | 431 | 419 | 405 | 382 | 347 | 338 | 326 | 305 | 292 | 280 | 258 | 222 | 209 | 207 | 173 | 128 | 83 | - | - | - | - | - | - | |
| 150 | | A182 F316L A182 F304L | 16 | 13 | 12 | 11 | 10 | 10 | 9 | 8 | 8 | 6 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | | | 41 | 35 | 31 | 29 | 27 | 26 | 25 | 25 | 24 | 24 | 23 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 600 | | | 83 | 70 | 63 | 58 | 54 | 51 | 50 | 50 | 49 | 48 | 47 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 800 ²⁾ | 110 | | 94 | 84 | 77 | 72 | 68 | 67 | 66 | 65 | 63 | 62 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1500 | 207 | | 176 | 157 | 145 | 136 | 128 | 126 | 124 | 122 | 119 | 117 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2500 | 345 | 294 | 262 | 241 | 226 | 214 | 210 | 207 | 203 | 199 | 194 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 150 | A182 F316 | 19 | 22 | 15 | 13 | 12 | 10 | 9 | 8 | 7 | 6 | 4 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 300 | | 50 | 43 | 39 | 36 | 33 | 31 | 30 | 30 | 29 | 29 | 29 | 27 | 25 | 25 | 21 | 16 | 13 | 10 | 8 | 7 | 5 | 4 | 3 | 3 | |
| 600 | | 99 | 85 | 77 | 71 | 66 | 62 | 61 | 60 | 59 | 58 | 58 | 57 | 53 | 50 | 50 | 42 | 33 | 26 | 20 | 16 | 13 | 10 | 8 | 6 | |
| 800 ²⁾ | | 132 | 114 | 103 | 94 | 88 | 83 | 81 | 80 | 79 | 78 | 77 | 76 | 71 | 67 | 66 | 56 | 43 | 34 | 27 | 21 | 18 | 14 | 11 | 8 | |
| 1500 | | 248 | 213 | 193 | 177 | 165 | 155 | 152 | 150 | 147 | 145 | 144 | 143 | 133 | 125 | 124 | 105 | 82 | 64 | 51 | 40 | 33 | 26 | 20 | 14 | |
| 2500 | 414 | 377 | 321 | 295 | 274 | 259 | 254 | 250 | 245 | 243 | 240 | 239 | 222 | 209 | 207 | 175 | 136 | 107 | 85 | 67 | 55 | 43 | 33 | 24 | | |
| 150 | A182 F304 | 19 | 16 | 14 | 13 | 12 | 10 | 9 | 8 | 7 | 6 | 4 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 300 | | 50 | 41 | 37 | 34 | 32 | 30 | 30 | 29 | 29 | 28 | 27 | 27 | 26 | 24 | 22 | 18 | 14 | 11 | 9 | 8 | 7 | 5 | 4 | 3 | |
| 600 | | 99 | 83 | 74 | 69 | 64 | 61 | 60 | 58 | 57 | 56 | 54 | 54 | 53 | 49 | 45 | 36 | 28 | 23 | 18 | 16 | 13 | 10 | 8 | 6 | |
| 800 ²⁾ | | 132 | 110 | 99 | 91 | 85 | 81 | 79 | 78 | 76 | 74 | 73 | 71 | 70 | 65 | 60 | 47 | 38 | 30 | 24 | 21 | 17 | 14 | 11 | 8 | |
| 1500 | | 248 | 207 | 185 | 171 | 161 | 152 | 149 | 145 | 142 | 140 | 137 | 134 | 132 | 122 | 112 | 89 | 71 | 57 | 46 | 39 | 32 | 26 | 20 | 14 | |
| 2500 | 414 | 345 | 309 | 285 | 268 | 254 | 248 | 243 | 237 | 233 | 228 | 223 | 219 | 203 | 187 | 148 | 118 | 94 | 77 | 65 | 53 | 43 | 33 | 24 | | |

Permissible operating pressures [psi] (in acc. with ASME B16.34 Standard Class)

| Class | Material | [°F] | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|------------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | -20 to +100 | 200 | 300 | 400 | 500 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
| 150 | A105 ¹⁾ | 285 | 260 | 230 | 200 | 170 | 140 | 125 | 110 | 95 | 80 | 65 | 50 | 35 | 20 | - | - | - | - | - | - | - | - | - | - |
| 300 | A350 LF2 | 740 | 680 | 655 | 635 | 605 | 570 | 550 | 530 | 505 | 410 | 320 | 230 | 135 | 85 | - | - | - | - | - | - | - | - | - | - |
| 600 | | 1480 | 1360 | 1310 | 1265 | 1205 | 1135 | 1100 | 1060 | 1015 | 825 | 640 | 460 | 275 | 170 | - | - | - | - | - | - | - | - | - | - |
| 800 ²⁾ | | 1975 | 1810 | 1745 | 1690 | 1610 | 1515 | 1465 | 1415 | 1350 | 1100 | 850 | 615 | 365 | 225 | - | - | - | - | - | - | - | - | - | - |
| 1500 | | 3705 | 3395 | 3270 | 3170 | 3015 | 2840 | 2745 | 2665 | 2535 | 2055 | 1595 | 1150 | 685 | 430 | - | - | - | - | - | - | - | - | - | - |
| 2500 | | 6170 | 5655 | 5450 | 5280 | 5025 | 4730 | 4575 | 4425 | 4230 | 3430 | 2655 | 1915 | 1145 | 715 | - | - | - | - | - | - | - | - | - | - |
| 150 | A182 F22 ³⁾ | 290 | 260 | 230 | 200 | 170 | 140 | 125 | 110 | 95 | 80 | 65 | 50 | 35 | 20 | 20 | 20 | 20 | 15 | - | - | - | - | - | - |
| 300 | | 750 | 750 | 730 | 705 | 665 | 605 | 590 | 570 | 530 | 510 | 485 | 450 | 385 | 265 | 175 | 110 | 70 | 40 | - | - | - | - | - | - |
| 600 | | 1500 | 1500 | 1455 | 1410 | 1330 | 1210 | 1175 | 1135 | 1065 | 1015 | 975 | 900 | 755 | 535 | 350 | 220 | 135 | 80 | - | - | - | - | - | - |
| 800 ²⁾ | | 2000 | 2000 | 1940 | 1880 | 1775 | 1615 | 1570 | 1515 | 1420 | 1355 | 1300 | 1200 | 1025 | 710 | 465 | 295 | 180 | 110 | - | - | - | - | - | - |
| 1500 | | 3750 | 3750 | 3640 | 3530 | 3325 | 3025 | 2940 | 2840 | 2660 | 2540 | 2435 | 2245 | 1930 | 1335 | 875 | 550 | 345 | 205 | - | - | - | - | - | - |
| 2500 | 6250 | 6250 | 6070 | 5880 | 5540 | 5040 | 4905 | 4730 | 4430 | 4230 | 4060 | 3745 | 3220 | 2230 | 1455 | 915 | 570 | 345 | - | - | - | - | - | - | |
| 1500 | A182 F91 | 3750 | 3750 | 3640 | 3530 | 3325 | 3025 | 2940 | 2840 | 2660 | 2540 | 2435 | 2245 | 1930 | 1820 | 1800 | 1510 | 1115 | 720 | - | - | - | - | - | - |
| 2500 | | 6250 | 6250 | 6070 | 5880 | 5540 | 5040 | 4905 | 4730 | 4430 | 4230 | 4060 | 3745 | 3220 | 3030 | 3000 | 2515 | 1855 | 1200 | - | - | - | - | - | - |
| 150 | | A182 F316L A182 F304L | 230 | 195 | 175 | 160 | 150 | 140 | 125 | 110 | 110 | 80 | 65 | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | | | 600 | 510 | 455 | 420 | 395 | 370 | 365 | 360 | 355 | 345 | 340 | - | - | - | - | - | - | - | - | - | - | - | - |
| 600 | | | 1200 | 1020 | 910 | 840 | 785 | 745 | 730 | 720 | 705 | 690 | 675 | - | - | - | - | - | - | - | - | - | - | - | - |
| 800 ²⁾ | 1600 | | 1365 | 1215 | 1120 | 1050 | 990 | 975 | 960 | 940 | 920 | 900 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1500 | 3000 | | 2555 | 2280 | 2100 | 1970 | 1860 | 1825 | 1800 | 1765 | 1730 | 1690 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2500 | 5000 | 4260 | 3800 | 3500 | 3280 | 3100 | 3040 | 3000 | 2940 | 2880 | 2820 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 150 | A182 F316 | 275 | 325 | 215 | 195 | 170 | 140 | 125 | 110 | 95 | 80 | 65 | 50 | 35 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 15 |
| 300 | | 720 | 620 | 560 | 515 | 480 | 450 | 440 | 435 | 425 | 420 | 420 | 415 | 385 | 365 | 360 | 305 | 235 | 185 | 145 | 115 | 95 | 75 | 60 | 40 |
| 600 | | 1440 | 1240 | 1120 | 1025 | 955 | 900 | 885 | 870 | 855 | 845 | 835 | 830 | 775 | 725 | 720 | 610 | 475 | 370 | 295 | 235 | 190 | 150 | 115 | 85 |
| 800 ²⁾ | | 1920 | 1655 | 1495 | 1370 | 1275 | 1205 | 1180 | 1160 | 1140 | 1125 | 1115 | 1105 | 1030 | 970 | 960 | 815 | 630 | 495 | 390 | 310 | 255 | 200 | 155 | 110 |
| 1500 | | 3600 | 3095 | 2795 | 2570 | 2390 | 2255 | 2210 | 2170 | 2135 | 2110 | 2090 | 2075 | 1930 | 1820 | 1800 | 1525 | 1185 | 925 | 735 | 585 | 480 | 380 | 290 | 205 |
| 2500 | 6000 | 5460 | 4660 | 4280 | 3980 | 3760 | 3680 | 3620 | 3560 | 3520 | 3480 | 3460 | 3220 | 3030 | 3000 | 2545 | 1970 | 1545 | 1230 | 970 | 800 | 630 | 485 | 345 | |
| 150 | A182 F304 | 275 | 230 | 205 | 190 | 170 | 140 | 125 | 110 | 95 | 80 | 65 | 50 | 35 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 15 |

- 1) Although Standard Class A105 can be used for temperatures exceeding approx. 427 °C (800 °F), prolonged use at such temperatures is not recommended.
- 2) To API 602
- 3) A182 F22 normalised and tempered

| Class | Material | [°F] | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|-----------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | -20 to +100 | 200 | 300 | 400 | 500 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
| 300 | A182 F304 | 720 | 600 | 540 | 495 | 465 | 440 | 430 | 420 | 415 | 405 | 395 | 390 | 380 | 355 | 325 | 255 | 205 | 165 | 135 | 115 | 95 | 75 | 60 | 40 |
| 600 | | 1440 | 1200 | 1075 | 995 | 930 | 885 | 865 | 845 | 825 | 810 | 790 | 780 | 765 | 710 | 650 | 515 | 410 | 330 | 265 | 225 | 185 | 150 | 115 | 85 |
| 800 ⁴⁾ | | 1920 | 1600 | 1435 | 1325 | 1240 | 1180 | 1150 | 1125 | 1100 | 1080 | 1055 | 1035 | 1020 | 945 | 865 | 685 | 545 | 440 | 355 | 300 | 250 | 200 | 155 | 110 |
| 1500 | | 3600 | 3000 | 2690 | 2485 | 2330 | 2210 | 2160 | 2110 | 2065 | 2030 | 1980 | 1945 | 1910 | 1770 | 1630 | 1285 | 1030 | 825 | 670 | 565 | 465 | 380 | 290 | 205 |
| 2500 | | 6000 | 5000 | 4480 | 4140 | 3880 | 3680 | 3600 | 3520 | 3440 | 3380 | 3300 | 3240 | 3180 | 2950 | 2715 | 2145 | 1715 | 1370 | 1115 | 945 | 770 | 630 | 485 | 345 |

Test pressure for A105/A182 F22/A182 F91

| Test | Test medium | Class 800 ⁴⁾ | Class 1500 ⁴⁾ | Class 2500 ⁵⁾ |
|-----------------------|-------------|-------------------------|--------------------------|--------------------------|
| | | [bar] | [bar] | [bar] |
| Shell | Water | 207 | 388 | 647 |
| Leak test (back seat) | | 152 | 285 | 474 |
| Leak test (seat) | | 152 | 285 | 474 |

Test pressure for A182 F304L/A182 F316L

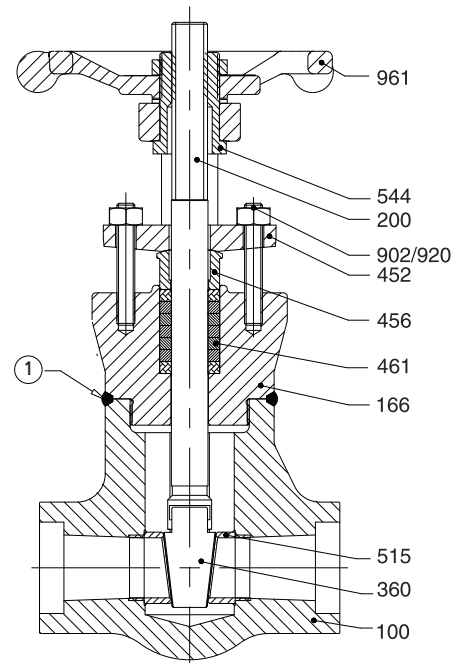
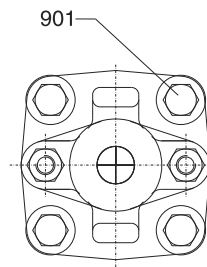
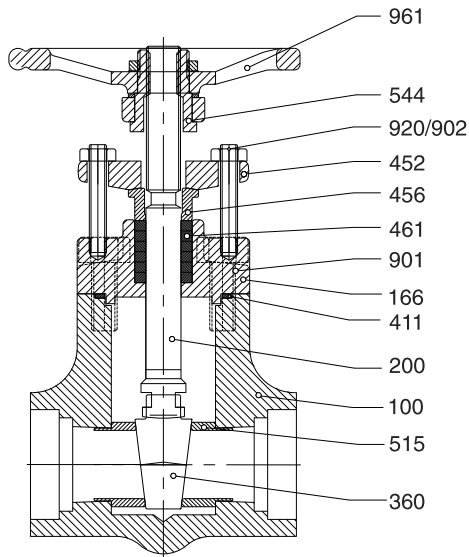
| Test | Test medium | Class 800 ⁴⁾ | Class 1500 ⁴⁾ | Class 2500 ⁵⁾ |
|-----------------------|-------------|-------------------------|--------------------------|--------------------------|
| | | [bar] | [bar] | [bar] |
| Shell | Water | 166 | 347 | 578 |
| Leak test (back seat) | | 122 | 256 | 424 |
| Leak test (seat) | | 122 | 256 | 424 |

Test pressure for A182 F304/A182 F316

| Test | Test medium | Class 800 ⁴⁾ | Class 1500 ⁴⁾ | Class 2500 ⁵⁾ |
|-----------------------|-------------|-------------------------|--------------------------|--------------------------|
| | | [bar] | [bar] | [bar] |
| Shell | Water | 199 | 388 | 647 |
| Leak test (back seat) | | 146 | 285 | 475 |
| Leak test (seat) | | 146 | 285 | 475 |

4) To API 598
5) To ASME B16.34

Materials



SICCA 800 GTF

SICCA 1500 GTF

SICCA 2500 GTF

① Seal-welded

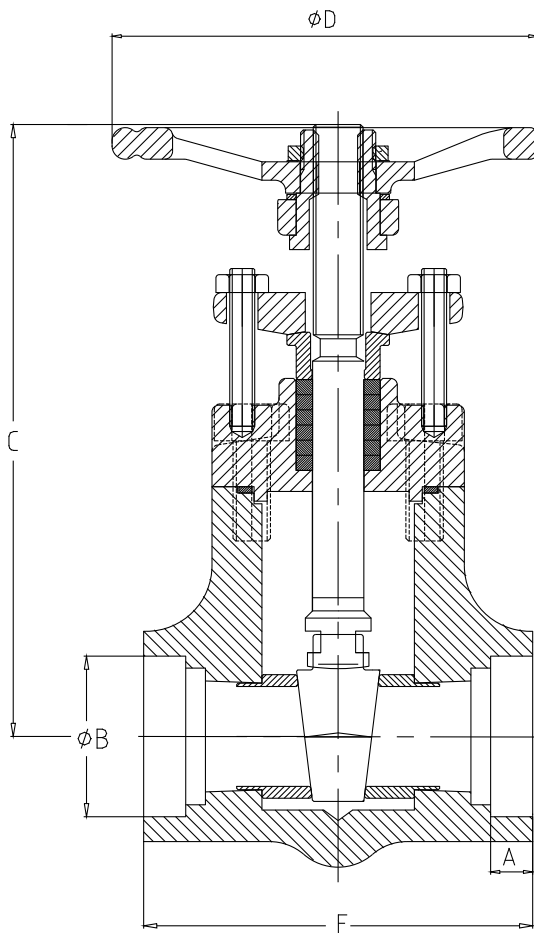
Parts list

| Part No. | Description | Class | Material |
|----------|-------------|-------------|--|
| 100 | Body | 800 | A105 A182 F304 A182 F316 A182 F316L A350 LF2 |
| | | 1500 / 2500 | A105 A182 F22 A182 F91 A182 F304 A182 F316 A350 LF2 |
| 166 | Yoke | 800 | A105 A182 F304 A182 F316 A182 F316L |
| | | 1500 / 2500 | A105 A182 F22 A182 F91 A182 F304 A182 F316 |
| 200 | Stem | 800 | A182 F304 A276 304 A276 316 A479 410-2 |
| | | 1500 / 2500 | A276 304 A276 316 A479 410-2 A479 XM19 |
| 360 | Wedge | 800 | A217 CA15 A217 CA15+ST6 A351 CF3M A351 CF8 |

| Part No. | Description | Class | Material |
|----------|---------------------|-------------------|----------------------------|
| 360 | Wedge | 1500 / 2500 | A217 CA15 |
| | | | A217 CA15+ST6 |
| | | | A351 CF8M |
| | | | A351 CF3M |
| 411 | Spiral wound gasket | 800 | Stainless steel + graphite |
| 452 | Gland follower | 800 | A105 |
| | | | A182 F316 |
| | | | A182 F316L |
| | | 1500 / 2500 | A105 |
| | | | A182 F22 |
| | | | A182 F316 |
| 456 | Lower gland section | 800 | A276 304 |
| | | | A276 316 |
| | | | A276 316L |
| | | | A276 410 |
| | | 1500 / 2500 | A276 304 |
| | | | A276 316 |
| | | | A276 410 |
| | | | A276 410 |
| 461 | Gland packing | 800 / 1500 / 2500 | Graphite |
| 515 | Seat ring | 800 | A276 304 |
| | | | A276 316 |
| | | | A276 316L |
| | | | A276 410 (H) |
| | | | A276 410+ST6 |
| | | 1500 / 2500 | A276 304 |
| | | | A276 316 |
| | | | A276 410 (H) |
| | | | A276 410+ST6 |
| | | | A276 410+ST6 |
| 544 | Threaded bush | 800 / 1500 / 2500 | A582 416 |
| 901 | Hexagon head bolt | 800 | A193 B7 |
| | | | A193 B8M |
| 902 | Stud | 800 | A193 B6 |
| | | | A193 B8M |
| | | 1500 / 2500 | A193 B8M Cl.2 |
| 920 | Nut | 800 | A194 2H |
| | | | A194 B8 |
| | | 1500 / 2500 | A194 2H |
| 961 | Handwheel | 800 / 1500 / 2500 | Cast steel |

Dimensions and weights

Dimensions and weights of SICCA 800 GTF



Dimensions and weights

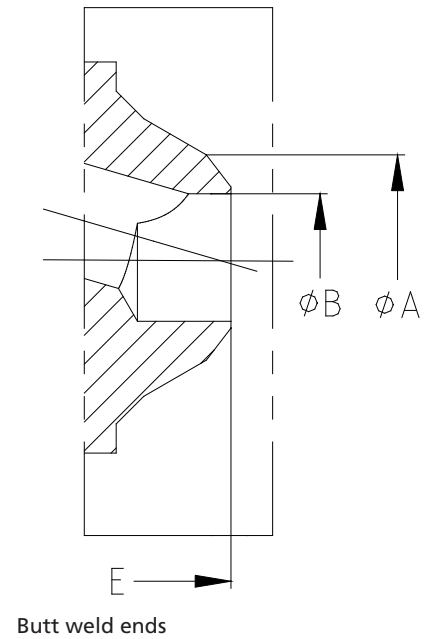
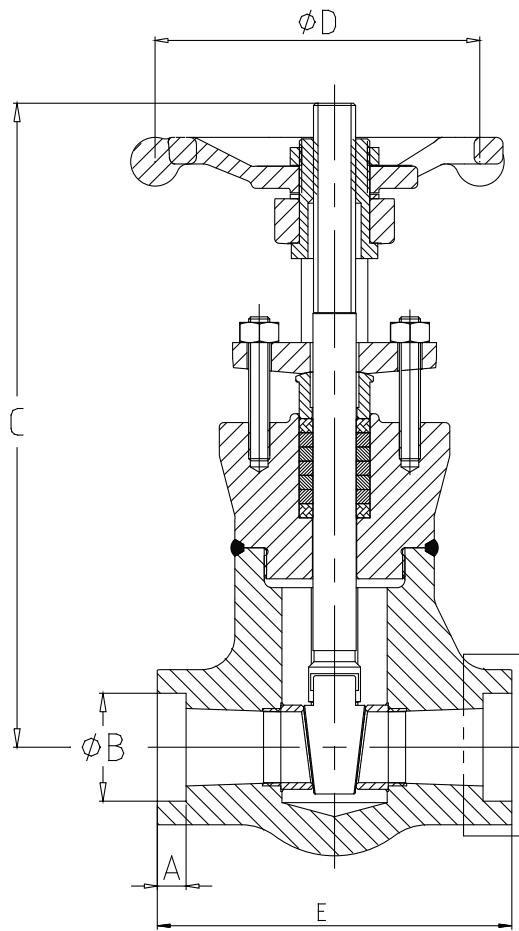
| Class | NPS [inch] | A [mm] | ØB [mm] | C ⁶⁾⁷⁾ [mm] | ØD [mm] | E [mm] | [kg] ⁷⁾ |
|-------|---------------|-----------|------------|---------------------------|------------|-----------|--------------------|
| 800 | 1/4 | 9,5 | 14,4 | 140 | 96 | 73 | 2,0 |
| | 3/8 | 9,5 | 17,6 | 140 | 96 | 73 | 2,0 |
| | 1/2 | 9,5 | 21,8 | 140 | 90 | 73 | 2,0 |
| | 3/4 | 13,0 | 27,1 | 155 | 90 | 82 | 2,5 |
| | 1 | 13,0 | 33,8 | 170 | 105 | 90 | 3,0 |
| | 1 1/2 | 13,0 | 48,7 | 240 | 127 | 127 | 6,5 |
| | 2 | 16,0 | 61,1 | 285 | 150 | 148 | 10,0 |

Mating dimensions as per standard

Face-to-face lengths: Manufacturer's standard
 Threaded sockets (F): ASME B1.20.1
 Socket weld ends: ASME B16.11

6) Open
 7) Approximate values

Dimensions and weights of SICCA 1500 GTF and SICCA 2500 GTF



Dimensions and weights

| Class | NPS | A ⁸⁾ | ØA ⁹⁾ | ØB ⁹⁾ | ØB ⁸⁾ | C ¹⁰⁾¹¹⁾ | ØD | E | [kg] ¹¹⁾ |
|-------|--------|-----------------|------------------|------------------|------------------|---------------------|------|------|---------------------|
| | [inch] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | |
| 1500 | 1/4 | 9,5 | - | - | 14,4 | 195 | 96 | 73 | 2,5 |
| | 3/8 | 9,5 | - | - | 17,6 | 195 | 96 | 73 | 2,5 |
| | 1/2 | 9,5 | 21,3 | 11,8-15,8 | 21,8 | 195 | 96 | 73 | 2,5 |
| | 3/4 | 13,0 | 26,7 | 15,6-20,9 | 27,1 | 235 | 96 | 94 | 4,0 |
| | 1 | 13,0 | 33,4 | 20,7-26,6 | 33,8 | 255 | 127 | 122 | 5,5 |
| | 1 1/2 | 13,0 | 48,3 | 27,9-40,9 | 48,7 | 330 | 152 | 160 | 11,0 |
| | 2 | 16,0 | 60,3 | 42,8-52,5 | 61,1 | 355 | 152 | 178 | 13,0 |
| 2500 | 1/4 | 9,5 | - | - | 14,4 | 253 | 127 | 94 | 5,0 |
| | 3/8 | 9,5 | - | - | 17,6 | 253 | 127 | 94 | 5,0 |
| | 1/2 | 9,5 | 21,3 | 13,6-15,8 | 21,8 | 253 | 127 | 94 | 5,0 |
| | 3/4 | 13,0 | 26,7 | 11,0-20,9 | 27,1 | 253 | 127 | 94 | 5,0 |
| | 1 | 13,0 | 33,4 | 15,2-26,6 | 33,0 | 303 | 152 | 122 | 9,3 |
| | 1 1/2 | 13,0 | 48,3 | 27,9-40,9 | 48,7 | 335 | 203 | 160 | 13,5 |
| | 2 | 16,0 | 60,3 | 41,8-52,5 | 61,1 | 390 | 254 | 178 | 19,5 |

Mating dimensions as per standard

Face-to-face lengths: Manufacturer's standard
 Socket weld ends: ASME B16.11
 Butt weld ends: API 602

Installation information

Flow may pass a gate valve in either direction.

- 8) Valve with socket weld ends
- 9) Valve with butt weld ends
- 10) Open
- 11) Approximate values



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