



Model: TC-603FT

Rating: Class 150 ~300

Design feature:

- Applications for Hydraulic, Chemical, Steam, Oil/ Gas, Oxygen, Vacuum.
- Investment Cast Stainless Steel Body & Bonnet.
- Bolted Bonnet Outside Screw And Yoke.
- Rising Stem And Handle wheel
- Yoke Integral With Bonnet.
- Wedge Disc.
- Integral Stainless Steel Seat.
- DIN 50049-3.1 Certificate Available

Specifications:

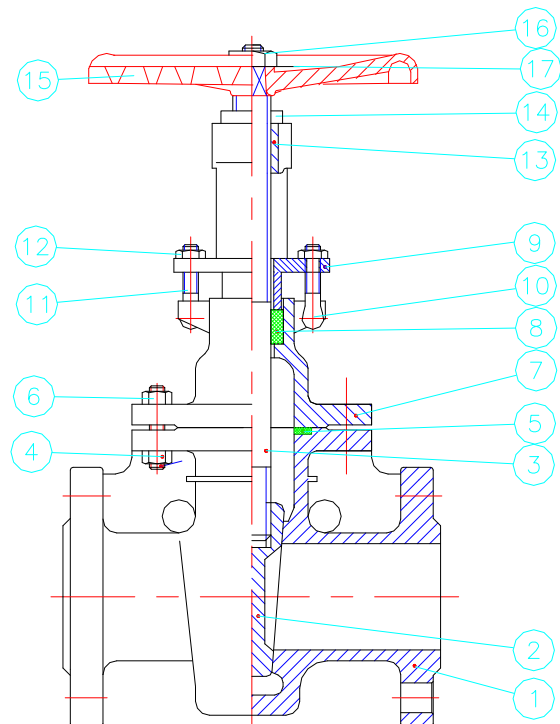
- Flow bore: full port.
- Rating: ANSI Class150/ 300; JIS 10K/ 20K; DIN PN16
- Temperature:
-20°F ~ 400°F (PTFE Packing & Gasket)
-20°F ~ 800°F (Graphite Packing & Gasket)
- Materials: ASTM A351 CF8M,CF8,CF3M, CF3
- Size range: 1/2”~12”

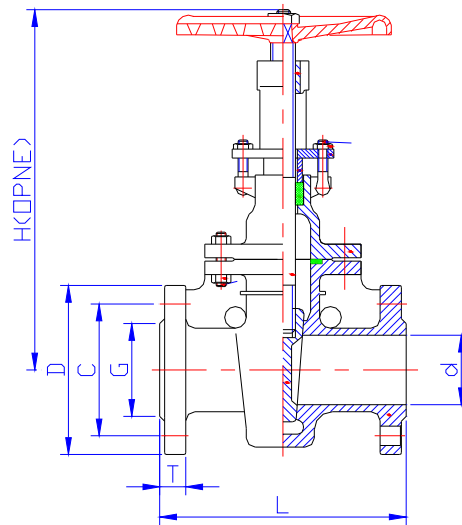
Standard:

- Basic Design to API 603; ASME B16.34
- Flange dimension according to ANSI B16.5
- Face-to-face meets to ANSI B16.10
- Inspection & testing according to API 598

Materials List:

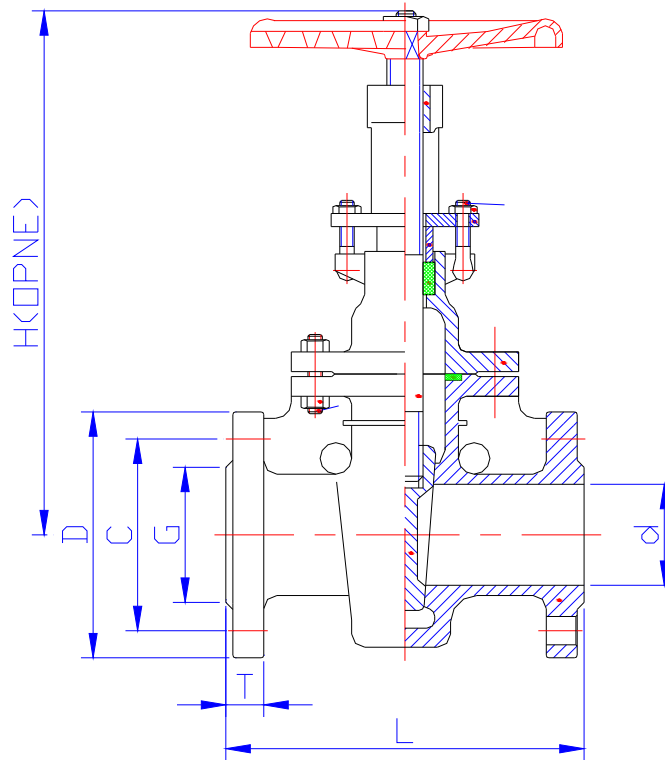
| No. | Part Name | Material |
|-----|--------------|------------------------|
| 1 | Body | ASTM A351 CF8M/ CF8 |
| 2 | Disc | ASTM A351 CF8M/ CF8 |
| 3 | Stem | ASTM A276 Gr.316 / 304 |
| 4 | Bolt | SS 304 |
| 5 | Gasket | PTFE |
| 6 | Nut | A194 B8 |
| 7 | Bonnet | ASTM A351 CF8M/ CF8 |
| 8 | Stem Packing | PTFE |
| 9 | Gland Flange | CF8 |
| 10 | Hinge Pin | SS 304 |
| 11 | Eye Bolt | SS 304 |
| 12 | Nut | A194 B8 |
| 13 | Yoke Sleeve | Bronze |
| 14 | Washer | Bronze |
| 15 | Handwheel | Ductile Iron |
| 16 | Nut | Bronze |
| 17 | Nameplate | SS 304 |





| ANSI Class 150 & JIS 10K Dimensions | | | | | | | | | | | | |
|-------------------------------------|-----|-----|------|-----|-----|-----|-------|-----|-----|-----|------|-----|
| Size | d | L | H | W | D | | C | | G | | T | |
| | | | | | 150 | 10K | 150 | 10K | 150 | 10K | 150 | 10K |
| 1/2 | 15 | 108 | 183 | 120 | 89 | 95 | 60.5 | 70 | 35 | 51 | 11.1 | 12 |
| 3/4 | 20 | 117 | 190 | 120 | 98 | 100 | 70 | 75 | 43 | 56 | 11.1 | 14 |
| 1 | 25 | 127 | 210 | 120 | 108 | 125 | 79.5 | 90 | 51 | 67 | 11.1 | 14 |
| 1-1/4 | 32 | 140 | 270 | 200 | 117 | 135 | 89 | 100 | 64 | 76 | 12.7 | 16 |
| 1-1/2 | 40 | 165 | 270 | 200 | 127 | 140 | 98.5 | 105 | 73 | 81 | 14.3 | 16 |
| 2 | 50 | 178 | 320 | 200 | 152 | 155 | 120.5 | 120 | 92 | 96 | 15.9 | 16 |
| 2-1/2 | 65 | 190 | 375 | 200 | 178 | 175 | 139.5 | 140 | 105 | 116 | 17.5 | 18 |
| 3 | 80 | 203 | 445 | 250 | 190 | 185 | 152.5 | 150 | 127 | 126 | 19.1 | 18 |
| 4 | 100 | 229 | 523 | 250 | 229 | 210 | 190.5 | 175 | 157 | 151 | 23.9 | 18 |
| 5 | 125 | 254 | 606 | 300 | 254 | 250 | 216 | 210 | 186 | 182 | 23.9 | 20 |
| 6 | 150 | 267 | 710 | 300 | 279 | 280 | 241.5 | 240 | 216 | 212 | 25.4 | 22 |
| 8 | 200 | 292 | 910 | 350 | 343 | 330 | 298.5 | 290 | 270 | 262 | 28.6 | 22 |
| 10 | 250 | 330 | 1117 | 400 | 406 | 400 | 362 | 355 | 324 | 324 | 30.2 | 24 |
| 12 | 300 | 356 | 1324 | 400 | 483 | 445 | 432 | 400 | 381 | 368 | 31.8 | 24 |

| ANSI Class 300 & JIS 20K Dimensions | | | | | | | | | | | | |
|-------------------------------------|-----|-----|------|-----|-----|-----|-------|-----|-----|-----|------|-----|
| Size | d | L | H | W | D | | C | | G | | T | |
| | | | | | 300 | 20K | 300 | 20K | 300 | 20K | 300 | 20K |
| 1/2 | 15 | 140 | 197 | 120 | 95 | 95 | 66.5 | 70 | 35 | 52 | 14.3 | 14 |
| 3/4 | 20 | 152 | 211 | 120 | 117 | 100 | 82.5 | 75 | 43 | 58 | 15.9 | 16 |
| 1 | 25 | 165 | 232 | 120 | 124 | 125 | 89 | 90 | 51 | 70 | 17.5 | 16 |
| 1-1/2 | 40 | 190 | 283 | 250 | 156 | 140 | 114.5 | 105 | 73 | 85 | 20.7 | 18 |
| 2 | 50 | 216 | 353 | 250 | 165 | 155 | 127 | 120 | 92 | 100 | 22.3 | 18 |
| 2-1/2 | 65 | 241 | 404 | 250 | 190 | 175 | 149 | 140 | 105 | 120 | 25.4 | 20 |
| 3 | 80 | 283 | 470 | 250 | 210 | 200 | 168 | 160 | 127 | 135 | 28.6 | 22 |
| 4 | 100 | 305 | 560 | 300 | 254 | 225 | 200 | 185 | 157 | 160 | 31.8 | 24 |
| 5 | 125 | 381 | 626 | 300 | 279 | 270 | 235 | 225 | 186 | 195 | 35 | 26 |
| 6 | 150 | 403 | 753 | 350 | 318 | 305 | 270 | 260 | 216 | 230 | 36.6 | 28 |
| 8 | 200 | 419 | 968 | 400 | 381 | 350 | 330 | 305 | 270 | 275 | 41.3 | 30 |
| 10 | 250 | 457 | 1117 | 400 | 444 | 430 | 387.5 | 380 | 324 | 345 | 41.7 | 34 |
| 12 | 300 | 502 | 1380 | 500 | 521 | 480 | 451 | 430 | 381 | 395 | 50.8 | 36 |



DIN PN16 Dimensions

| Size | d | L | H | W | D | C | G | T |
|------|-----|-----|-----|-----|-----|-----|-----|----|
| 15 | 15 | 130 | 130 | 120 | 95 | 65 | 45 | 14 |
| 20 | 20 | 150 | 150 | 120 | 105 | 75 | 58 | 16 |
| 25 | 25 | 160 | 160 | 120 | 115 | 85 | 68 | 16 |
| 32 | 32 | 180 | 180 | 200 | 140 | 100 | 78 | 16 |
| 40 | 40 | 200 | 200 | 200 | 150 | 110 | 88 | 16 |
| 50 | 50 | 230 | 230 | 200 | 165 | 125 | 102 | 18 |
| 65 | 65 | 290 | 290 | 200 | 185 | 145 | 122 | 18 |
| 80 | 80 | 310 | 310 | 250 | 200 | 160 | 138 | 20 |
| 100 | 100 | 350 | 350 | 250 | 220 | 180 | 158 | 20 |
| 125 | 125 | 400 | 400 | 300 | 250 | 210 | 188 | 22 |
| 150 | 150 | 480 | 480 | 300 | 285 | 240 | 212 | 22 |
| 200 | 200 | 600 | 600 | 350 | 340 | 295 | 268 | 24 |
| 250 | 250 | 730 | 730 | 400 | 405 | 355 | 320 | 26 |
| 300 | 300 | 850 | 850 | 400 | 460 | 410 | 378 | 28 |