

# TC-WLF, TC-WTF VALVE

## 150# MULTI-PORT FLANGED 3 WAY BALL VALVE "L" PORT, "T" PORT

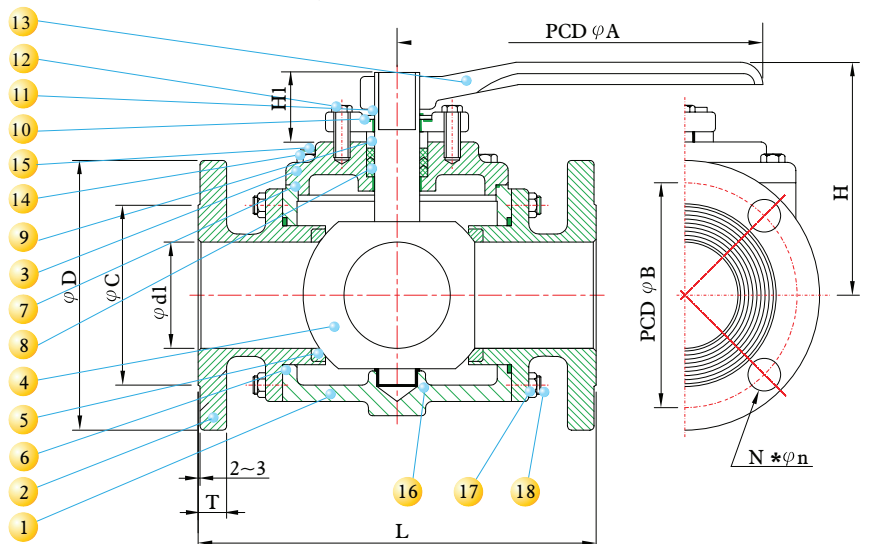
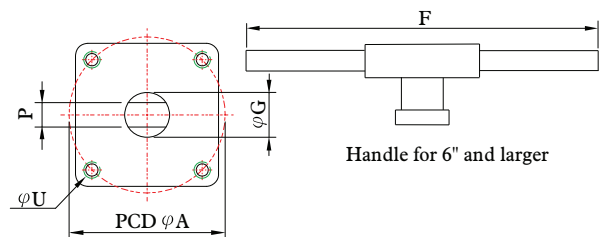


### DESIGN FEATURES:

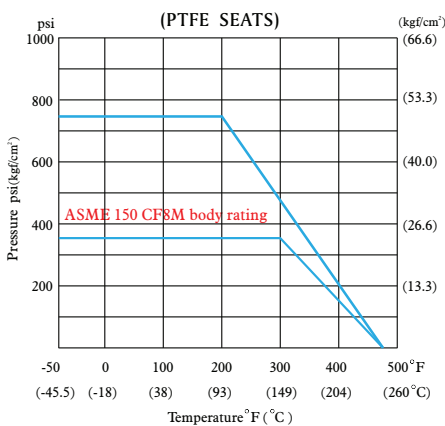
- Steam rating: 150 psi WSP
- Blow-out-proof stem design
- ISO 5211 Actuator Mounting Pad
- Body: ASTM A351 Gr.CF8M
- Ball: SS316
- Stem: SS316
- Seat: PTFE
- Temperature Range: -50° to 450° F
- Multiport design
- Flange Dimensions: ANSI B16.5 150 #
- TEST STANDARD: API 598

### MATERIALS LIST

| NO. | PART NAME       | MATERIAL          | QTY   |
|-----|-----------------|-------------------|-------|
| 1   | BODY            | ASTM A351 Gr.CF8M | 1     |
| 2   | FLANGED CAP     | ASTM A351 Gr.CF8M | 3     |
| 3   | COVER           | ASTM A351 Gr.CF8M | 1     |
| 4   | BALL & STEM     | SS316             | 1     |
| 5   | BALL SEAT       | PTFE              | 3     |
| 6   | JOINT GASKET    | PTFE              | 3     |
| 7   | GASKET          | PTFE              | 1     |
| 8   | STEM PACKING    | PTFE              | 1     |
| 9   | GLAND           | ASTM A351 Gr.CF8  | 1     |
| 10  | STOPPER         | SS304             | 1     |
| 11  | C RETAINER RING | SK7               | 1     |
| 12  | BOLT            | ASTM A193 B8      | 2     |
| 13  | HANDLE          | FCD45             | 1     |
| 14  | BOLT            | ASTM A193 B8      | 4~12  |
| 15  | NUT             | ASTM A194 8       | 4~12  |
| 16  | SLEEVE          | PTFE              | 1     |
| 17  | STUD BOLT       | ASTM A193 B8      | 12~24 |
| 18  | NUT             | ASTM A194 8       | 12~24 |



### PRESSURE TEMPERATURE RATINGS



### DIMENSIONS

| SIZE   | A   |      | B   |      | C     |      | D   |       | dI  |      | G   |      | H    |       | H1  |      |    |
|--------|-----|------|-----|------|-------|------|-----|-------|-----|------|-----|------|------|-------|-----|------|----|
| inch   | mm  | inch | mm  | inch | mm    | inch | mm  | inch  | mm  | inch | mm  | inch | mm   | inch  | mm  |      |    |
| 2"     | 50  | 2.76 | 70  | 4.74 | 120.5 | 3.62 | 92  | 5.98  | 152 | 1.97 | 50  | 0.87 | 22.0 | 4.80  | 122 | 1.73 | 44 |
| 2 1/2" | 50  | 2.76 | 70  | 5.49 | 139.5 | 4.13 | 105 | 7.00  | 178 | 2.60 | 66  | 1.16 | 29.5 | 6.42  | 163 | 2.56 | 65 |
| 3"     | 80  | 4.02 | 102 | 6.00 | 152.5 | 5.00 | 127 | 7.48  | 190 | 2.99 | 76  | 1.16 | 29.5 | 6.34  | 161 | 2.40 | 61 |
| 4"     | 100 | 4.92 | 125 | 7.50 | 190.5 | 6.18 | 157 | 9.01  | 229 | 3.98 | 101 | 1.34 | 34.0 | 8.46  | 215 | 2.20 | 56 |
| 6"     | 150 | 4.92 | 125 | 9.51 | 241.5 | 8.50 | 216 | 10.98 | 279 | 5.94 | 151 | 1.77 | 45.0 | 10.08 | 256 | 3.03 | 77 |

| SIZE   | L    |       | T    |      | N    | n    |      | P    |      | F    |       | U    | ISO6211   | Cv Factor | Weight |     |       |
|--------|------|-------|------|------|------|------|------|------|------|------|-------|------|-----------|-----------|--------|-----|-------|
|        | inch | mm    | inch | mm   |      | inch | mm   | inch | mm   | inch | mm    |      |           |           | Kg     | Lb  |       |
| 2"     | 50   | 8.67  | 220  | 0.63 | 15.9 | 4    | 0.75 | 19   | 0.67 | 17   | 11.81 | 300  | 3/8" -16  | F07       | 500    | 16  | 35.2  |
| 2 1/2" | 50   | 11.10 | 282  | 0.69 | 17.5 | 4    | 0.75 | 19   | 0.67 | 17   | 11.81 | 300  | 7/16" -14 | F10       | 850    | 17  | 37.4  |
| 3"     | 80   | 11.10 | 283  | 0.75 | 19.1 | 4    | 0.75 | 19   | 0.67 | 17   | 15.35 | 390  | 7/16" -14 | F10       | 1150   | 34  | 74.9  |
| 4"     | 100  | 13.70 | 348  | 0.94 | 23.9 | 8    | 0.75 | 19   | 0.91 | 23   | 15.35 | 390  | 1/2" -12  | F12       | 2120   | 55  | 121.2 |
| 6"     | 150  | 16.77 | 426  | 1.00 | 25.4 | 8    | 0.87 | 22   | 1.38 | 35   | 39.37 | 1000 | 1/2" -12  | F12       | 5100   | 136 | 299.6 |