

**Fig no. GBF-300**

**1/2" - 4" (DN15- DN300)**



### Features:

Flexible wedge,  
OS & Yoke design, Body Bolted type  
Rising stem and handwheel  
Integral seat  
For General Chemical and Industrial application

### Standard Compliance :

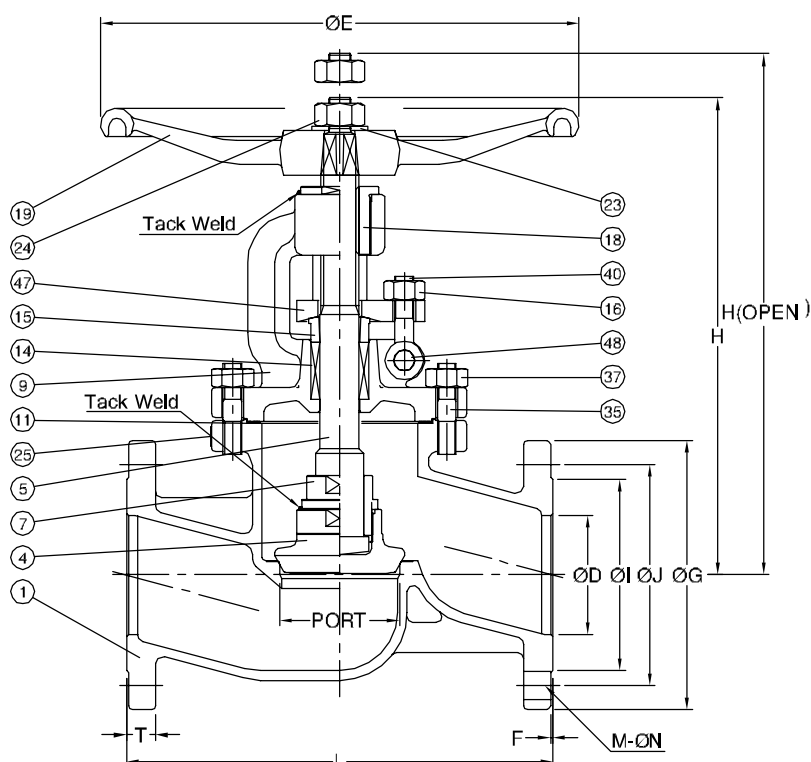
Design : API 603/ ANSI B16.34  
Body wall thickness : ANSI B16.34  
Face to face : ANSI B16.10 class 300  
Flange dimension : ANSI B16.5 class 300 RF  
Body material : A890 6A/ A351 CD3MWCuN  
Pressure testing : EN 12266-1/ API 598

### Specification :

End connection : Flange end  
Working pressure : 750 psi ( CWP )  
Temperature : -20 ~ 180 C

### Options :

1. Gasket/ stem packing to be Graphite
2. Flange surface smooth finished



### MATERIALS LIST

| NO. | NAME PARTS    | MATERIALS                                                        |
|-----|---------------|------------------------------------------------------------------|
| 1   | BODY          | ASTM A890 Gr.6A                                                  |
| 4   | DISC          | ASTM A890 Gr.6A (3" ABOVE)<br>ASTM A479 Gr.S32750 (2-1/2" UNDER) |
| 5   | STEM          | ASTM A479 Gr.S32750                                              |
| 7   | DISC NUT      | ASTM A890 Gr.6A (4" ABOVE)<br>ASTM A479 Gr.S32750 (3" UNDER)     |
| 9   | BONNET        | ASTM A890 Gr.6A                                                  |
| 11  | GASKET        | S.S SPIRAL WOUND+PTFE.                                           |
| 14  | PACKING       | PTFE.                                                            |
| 15  | GLAND         | ASTM A479 Gr.S32750                                              |
| 16  | EYE BOLT NUT  | ASTM A194 Gr.8 (HEAVY)                                           |
| 18  | YOKE SLEEVE   | ASTM A439 Gr.D2C                                                 |
| 19  | HANDWHEEL     | ASTM A536 DUCTILE IRON                                           |
| 23  | SPRING WASHER | ANSI 304                                                         |
| 24  | HANDWHEEL NUT | ASTM A194 Gr.8                                                   |
| 25  | NAME PLATE    | ASTM A666-304                                                    |
| 35  | BONNET STUD   | ASTM A193 Gr.B8 CLASS 2                                          |
| 37  | BONNET NUT    | ASTM A194 Gr.8 (HEAVY)                                           |
| 40  | EYE BOLT      | ASTM A193 Gr.B8                                                  |
| 47  | GLAND FLANGE  | ASTM A351 Gr.CF8                                                 |
| 48  | EYE BOLT PIN  | ASTM A276-304                                                    |

### DIMENSIONS

| DIMENSIONS |        |       |       |       |         |       |       |       |       |      |     |    |      |       |
|------------|--------|-------|-------|-------|---------|-------|-------|-------|-------|------|-----|----|------|-------|
| SIZE       | PORT   | L     | ØE    | H     | H(OPEN) | ØG    | ØJ    | ØI    | T     | F    | M   | ØN | ØD   |       |
| DN15       | 1/2"   | 15.0  | 152.4 | 100.1 | 172.0   | 184.9 | 95.3  | 66.5  | 35.1  | 9.7  | 1.6 | 4  | 15.9 | 15.0  |
| DN20       | 3/4"   | 19.1  | 177.8 | 100.1 | 174.0   | 186.9 | 117.3 | 82.6  | 42.9  | 10.4 | 1.6 | 4  | 19.1 | 19.1  |
| DN25       | 1"     | 24.1  | 203.2 | 150.1 | 211.1   | 230.1 | 124.0 | 88.9  | 50.8  | 11.2 | 1.6 | 4  | 19.1 | 25.4  |
| DN40       | 1-1/2" | 38.1  | 228.6 | 199.9 | 255.0   | 275.1 | 155.4 | 114.3 | 73.2  | 14.2 | 1.6 | 4  | 22.2 | 38.1  |
| DN50       | 2"     | 23.6  | 266.7 | 199.9 | 257.0   | 277.9 | 165.1 | 127.0 | 91.9  | 15.7 | 1.6 | 8  | 19.1 | 50.8  |
| DN65       | 2-1/2" | 63.5  | 292.1 | 249.9 | 294.9   | 316.0 | 190.5 | 149.4 | 104.6 | 17.5 | 1.6 | 8  | 22.2 | 63.5  |
| DN80       | 3"     | 76.2  | 317.5 | 300.0 | 315.0   | 360.9 | 209.6 | 168.1 | 127.0 | 19.1 | 1.6 | 8  | 22.2 | 79.0  |
| DN100      | 4"     | 100.1 | 355.6 | 400.1 | 403.1   | 435.1 | 254.0 | 200.2 | 157.2 | 23.9 | 1.6 | 8  | 22.2 | 101.6 |