



## **STANDARDS**

- Fire safe design
- API 607
- API 6FA
- BS6755
- JB/T 6899
- API 6D
- NACE Certified

# 9600 Series Floating Ball Valve

### FEATURES & BENEFITS

- Bigger sealing pressure ration between the ring surface and the ball when medium pressure gets lower, where the contacting area is smaller.
- When the medium pressure gets higher, the contacting area between sing ring and ball become bigger as the sealing ring transforms elastically to undertake the bigger force pushed by the medium without any damage
- J-Flow's specially designed structure of auxiliary metal to metal seal is provided to effectively prevent both internal and external leakage of the valve

## **APPLICATIONS & INDUSTRIES**

- Oil and gas production
- Diesel fuel
- Natural gas applications
- Steam service
- Chemical application

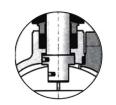
#### **FEATURES**

#### Reliable Stem Seal

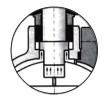
The blow-out proof design has been adopted for the stem to ensure that even if the pressure in the body cavity is risen accidentally and the packing flange becomes invalid, the stem may not be blown out by medium. The stem features the design with a backseat, being assembled from underneath. The sealing force against the backseat gets higher as the medium pressure becomes higher. So the reliable seal of the stem can be assured under variable medium pressure.

#### **Packing**

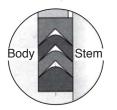
V-type packing structure has been employed to effectively transform the pushing force of the gland flange and the medium pressure into the sealing force against the stem.



Stem assembled from underneath may not be blown out by medium



Stem assembled downward may be blown out



Body Stem

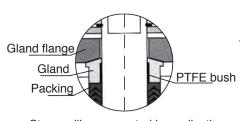
Packing before pressed Packing after pressed

#### **Packing Flange & Gland**

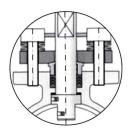
The traditional packing flange design has been improved to be of two piece structure, i.e. being as a gland flange end gland, the latter contacts the gland flange with spherical surface. Thus, the gland remains vertical always, and is lined internally with a PTFE bush to prevent the galling against and friction between the stem, which can also reduce the operation torque of the valve.

#### **Bevelled Washer**

Based on customer's requirement, a packing tightening design may be employed to obtain more reliable stem packing seal, which is loaded by bevelling spring.



Stem galling prevented in application

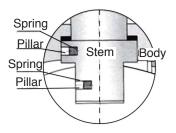




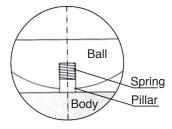
#### **FEATURES**

#### **Anti-Static Feature**

The traditional packing flange design has been improved to be of two piece structure, i.e. being as a packing flange plate and a follower, the latter contacts the flange plate and a follower, the latter contacts the flange plate with spherical surface. Thus the follower remains vertical always, and is lined internally with a PTFE bush to prevent the galling against and friction between the stem, which can also reduce the operation torque of the valve.



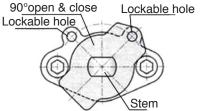
Anti-static design for ball valves > 1-1/4"



Anti-static design for ball valves < 1"

#### **Anti-Static Feature**

To prevent the ball valve from wrong operation, the key lock with 90° of open and close positioning pad has been provided, which can be lockable as required. At the stem head, where the lever fixes, a flat is so designed that the valve opens with the lever in parallel to piping, and with the lever right-angled to the piping, the valve is closed. So, it is ensured that the valve indicator of open and close can never be mistaken.





#### **Anti-Static Feature**

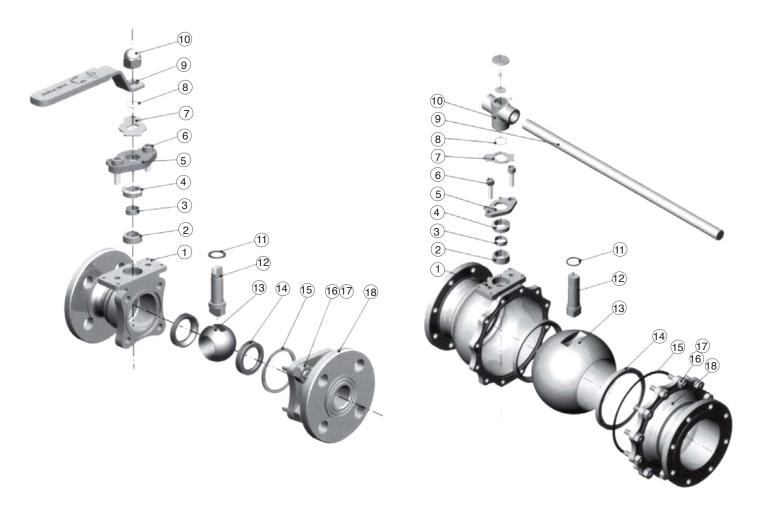
J Flow has provided for flating ball valve with a mounting pad, through which it is easy to fix the actuators, such as worm gear, pneumatic and electric actuators







# **PARTS IDENTIFICATION**

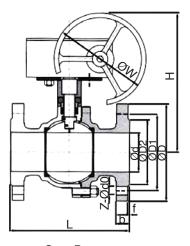


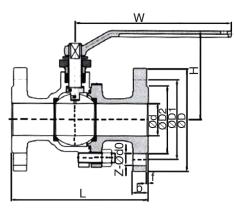
| Na | Davis Name         |                 |                 | Materials           |                 |                 |  |
|----|--------------------|-----------------|-----------------|---------------------|-----------------|-----------------|--|
| No | Parts Name         | WCB/13Cr        | WCB/304         | WCB/316             | CF8             | CF8M            |  |
| 1  | Body               | ASTM A216 WCB   | ASTM A216 WCB   | ASTM A216 WCB       | ASTM A351 CF8   | ASTM A351 CF8M  |  |
| 2  | Packing            | PTFE            | PTFE            | PTFE                | PTFE            | PTFE            |  |
| 3  | Stem Bearing       | PTFE            | PTFE            | PTFE                | PTFE            | PTFE            |  |
| 4  | Gland              | ASTM A182 F6a   | ASTM A182 F304  | ASTM A182 F316      | ASTM A182 F304  | ASTM A182 F316  |  |
| 5  | Gland Flange       | ASTM A246 WCB   | ASTM A216 WCB   | ASTM A216 WCB       | ASTM A351 CF8   | ASTM A351 CF8M  |  |
| 6  | Gland Bolt         | ASTM A193 B7    | ASTM A193 B7    | <b>ASTM A193 B7</b> | ASTM A193 B8    | ASTM A193 B8M   |  |
| 7  | Stop Collar        | Carbon Steel    | Carbon Steel    | Carbon Steel        | Stainless Steel | Stainless Steel |  |
| 8  | Circlip            | Carbon Steel    | Carbon Steel    | Carbon Steel        | Stainless Steel | Stainless Steel |  |
| 9  | Lever              | Carbon Steel    | Carbon Steel    | Carbon Steel        | Stainless Steel | Stainless Steel |  |
| 10 | Nut or Wrench Head | Carbon Steel    | Carbon Steel    | Carbon Steel        | Stainless Steel | Stainless Steel |  |
| 11 | Thrust Washer      | PTFE            | PTFE            | PTFE                | PTFE            | PTFE            |  |
| 12 | Stem               | ASTM A182 F6a   | ASTM A182 F304  |                     | ASTM A182 F304  | ASTM A182 F316  |  |
| 13 | Ball               | ASTM A182 F6a   | ASTM A182 F304  |                     | ASTM A182 F304  | ASTM A182 F316  |  |
| 14 | Seat               | Reinforced PTFE | Reinforced PTFE | Reinforced PTFE     | Reinforced PTFE | Reinforced PTFE |  |
| 15 | Gasket             | PTFE            | PTFE            | PTFE                | PTFE            | PTFE            |  |
| 16 | Body Nut           | ASTM A194 2H    | ASTM A194 2H    | ASTM A194 2H        | ASTM A194 B8    | ASTM A194 B8    |  |
| 17 | Body Bolting       | ASTM A193 B7    | ASTM A193 B7    | ASTM A193 B7        | ASTM A193 B8    | ASTM A193 B8    |  |
| 18 | Closure            | ASTM A216 WCB   | ASTM A216 WCB   | ASTM A216 WCB       | ASTM A351 CF8   | ASTM A351 CF8M  |  |

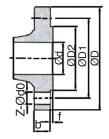
Note: The chart above only lists some common composition of steel ball valve parts. We may provide different parts material composition according to the customer's request or the actual valve working condition. See Model Numbering for available materials.



# **DIMENSIONS**







Gear Box

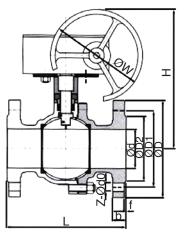
Handwheel

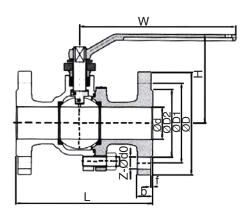
Class 600 ~ Class 1500 flange

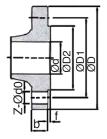
|              |        |      |      |      |      |      |      | Dime | nsions |               |               |             |               |             | Weight        |             |
|--------------|--------|------|------|------|------|------|------|------|--------|---------------|---------------|-------------|---------------|-------------|---------------|-------------|
| Pressure     | Size   |      | L    |      |      |      |      |      |        |               | W             | 1           | H             | 1           | wei           | gnt         |
| riessuie     | OIZC   | RF   | RTJ  | d    | D    | D1   | D2   | b    | f      | <b>Z</b> -Ød0 | Hand<br>wheel | Gear<br>Box | Hand<br>wheel | Gear<br>Box | Hand<br>wheel | Gear<br>Box |
|              | 1/2"   | 4.3  | 4.7  | 0.6  | 3.5  | 2.4  | 1.4  | 0.5  | 0.06   | 0.2-0.6       | 5.5           |             | 3.3           |             | 6.6           |             |
|              | 3/4"   | 4.6  | 5.1  | 0.7  | 3.9  | 2.8  | 1.7  | 0.5  | 0.06   | 0.2-0.6       | 5.5           |             | 3.5           |             | 8.8           |             |
|              | 1"     | 5.0  | 5.5  | 0.9  | 4.3  | 3.1  | 2.0  | 0.5  | 0.06   | 0.2-0.6       | 5.9           |             | 3.9           |             | 11.0          |             |
|              | 1-1/4" | 5.5  | 6.0  | 1.3  | 4.6  | 3.5  | 2.5  | 0.5  | 0.06   | 0.2-0.6       | 7.1           |             | 4.1           |             | 15.4          |             |
|              | 1-1/2" | 6.5  | 7.0  | 1.5  | 5.0  | 3.9  | 2.9  | 0.6  | 0.06   | 0.2-0.6       | 7.9           |             | 5.0           |             | 17.6          |             |
| 01           | 2"     | 7.0  | 7.5  | 2.0  | 6.0  | 4.7  | 3.6  | 0.6  | 0.06   | 0.2-0.7       | 9.8           |             | 5.5           |             | 26.5          |             |
| Class<br>150 | 2-1/2" | 7.5  | 8.0  | 2.5  | 7.0  | 5.5  | 4.1  | 0.7  | 0.06   | 0.2-0.7       | 11.8          |             | 6.5           |             | 39.7          |             |
| 100          | 3"     | 8.0  | 8.5  | 3.0  | 7.5  | 6.0  | 5.0  | 0.8  | 0.06   | 0.2-0.7       | 13.8          |             | 7.0           |             | 52.9          |             |
|              | 4"     | 9.0  | 9.5  | 4.0  | 9.0  | 7.5  | 6.2  | 0.9  | 0.06   | 0.3-0.7       | 19.7          | 12.0        | 9.1           | 15.0        | 83.8          | 117         |
|              | 5"     | 14.0 | 14.5 | 5.0  | 10.0 | 8.5  | 7.3  | 0.9  | 0.06   | 0.3-0.9       | 31.4          | 12.0        | 11.0          | 15.9        | 132           | 174         |
|              | 6"     | 15.5 | 16.0 | 6.0  | 11.0 | 9.5  | 8.5  | 1.0  | 0.06   | 0.3-0.9       | 31.4          | 12.0        | 12.2          | 18.1        | 181           | 225         |
|              | 8"     | 18.0 | 18.0 | 8.0  | 13.5 | 11.8 | 10.6 | 1.1  | 0.06   | 0.3-0.7       | 39.4          | 12.0        | 13.8          | 21.7        | 320           | 408         |
|              | 10"    | 21.0 | 21.5 | 10.0 | 16.0 | 14.3 | 12.8 | 1.2  | 0.06   | 0.5-1.0       |               | 15.8        |               | 27.8        |               | 617         |
|              | 1/2"   | 5.5  | 6.0  | 0.6  | 3.7  | 2.6  | 1.4  | 0.6  | 0.06   | 0.2-0.6       | 5.5           |             | 3.3           |             | 6.6           |             |
|              | 3/4"   | 6.0  | 6.5  | 0.7  | 4.6  | 3.2  | 1.7  | 0.7  | 0.06   | 0.2-0.7       | 5.5           |             | 3.5           |             | 11.0          |             |
|              | 1"     | 6.5  | 7.0  | 0.9  | 4.9  | 3.5  | 2.0  | 0.7  | 0.06   | 0.2-0.7       | 5.9           |             | 3.9           |             | 13.2          |             |
|              | 1-1/4" | 7.0  | 7.5  | 1.3  | 5.2  | 3.9  | 2.5  | 0.8  | 0.06   | 0.2-0.7       | 7.1           |             | 4.1           |             | 17.6          |             |
|              | 1-1/2" | 7.5  | 8.0  | 1.5  | 6.1  | 4.5  | 2.9  | 0.8  | 0.06   | 0.2-0.9       | 7.9           |             | 5.0           |             | 24.3          |             |
| Class        | 2"     | 8.5  | 9.1  | 2.0  | 6.5  | 5.0  | 3.6  | 0.9  | 0.06   | 0.3-0.7       | 9.8           |             | 5.6           |             | 35.3          |             |
| 300          | 2-1/2" | 9.5  | 10.1 | 2.5  | 7.5  | 5.9  | 4.1  | 1.0  | 0.06   | 0.3-0.9       | 11.8          |             | 6.5           |             | 53            |             |
|              | 3"     | 11.1 | 11.8 | 3.0  | 8.3  | 6.6  | 5.0  | 1.1  | 0.06   | 0.3-0.9       | 13.8          |             | 7.0           | 13.0        | 75            | 115         |
|              | 4"     | 12.0 | 12.6 | 4.0  | 10.0 | 7.9  | 6.2  | 1.3  | 0.06   | 0.3-0.9       | 19.7          | 12.0        | 9.1           | 15.0        | 124           | 168         |
|              | 5"     | 15.0 | 15.6 | 5.0  | 11.0 | 9.3  | 7.3  | 1.4  | 0.06   | 0.3-0.9       | 31.4          | 12.0        | 11.0          | 16.5        | 190           | 273         |
|              | 6"     | 15.9 | 16.5 | 6.0  | 12.5 | 10.6 | 8.5  | 1.5  | 0.06   | 0.5-0.9       | 31.4          | 12.0        | 12.2          | 18.9        | 276           | 359         |
|              | 8"     | 19.8 | 20.4 | 8.0  | 15.0 | 13.0 | 10.6 | 1.6  | 0.06   | 0.5-1.0       | 39.4          | 12.0        | 13.8          | 22.0        | 489           | 589         |



# **DIMENSIONS**







Gear Box

Handwheel

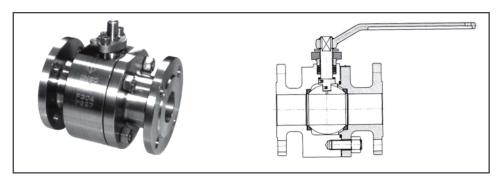
Class 600 ~ Class 1500 flange

|              |        |      |      |     |      |       |     | Dime | nsions |               |             |               |             |               | Weight      |     |
|--------------|--------|------|------|-----|------|-------|-----|------|--------|---------------|-------------|---------------|-------------|---------------|-------------|-----|
| Pressure     | Size   | L    |      |     |      |       |     |      |        |               | W           |               | H           | 1             | wei         | gnt |
| Tressure     | Oize   | RF   | RTJ  | d   | D    | D1 D2 | b   | f    | Z-Ød0  | Hand<br>wheel | Gear<br>Box | Hand<br>wheel | Gear<br>Box | Hand<br>wheel | Gear<br>Box |     |
|              | 1/2"   | 6.5  | 6.5  | 0.6 | 3.7  | 2.6   | 1.4 | 0.06 | 0.25   | 0.2-0.6       | 5.5         |               | 3.1         |               | 11.0        |     |
|              | 3/4"   | 7.5  | 7.5  | 0.7 | 4.6  | 3.2   | 1.7 | 0.7  | 0.25   | 0.2-0.7       | 5.5         |               | 3.3         |               | 15.4        |     |
|              | 1"     | 8.5  | 8.5  | 0.9 | 4.9  | 3.5   | 2.0 | 0.7  | 0.25   | 0.2-0.7       | 7.9         |               | 4.5         |               | 19.8        |     |
| 01           | 1-1/4" | 9.0  | 9.0  | 1.3 | 5.2  | 3.9   | 2.5 | 0.8  | 0.25   | 0.2-0.7       | 7.9         |               | 4.7         |               | 28.7        |     |
| Class<br>600 | 1-1/2" | 9.5  | 9.5  | 1.5 | 6.1  | 4.5   | 2.9 | 0.9  | 0.25   | 0.2-0.9       | 9.8         |               | 4.9         |               | 37.5        |     |
|              | 2"     | 11.5 | 11.6 | 2.0 | 6.5  | 5.0   | 3.6 | 1.0  | 0.25   | 0.3-0.7       | 11.8        |               | 6.1         |               | 55          |     |
|              | 2-1/2" | 13.0 | 13.1 | 2.5 | 7.5  | 5.9   | 4.1 | 1.1  | 0.25   | 0.3-0.9       | 13.8        |               | 6.8         |               | 93          |     |
|              | 3"     | 14.0 | 14.1 | 3.0 | 8.3  | 6.6   | 5.0 | 1.3  | 0.25   | 0.3-0.9       | 19.7        | 12.0          | 8.7         | 14.6          | 124         | 168 |
|              | 4"     | 17.0 | 17.1 | 4.0 | 10.7 | 8.5   | 6.2 | 1.5  | 0.25   | 0.3-1.0       | 25.6        | 12.0          | 9.8         | 15.7          | 187         | 271 |
|              | 1/2"   | 8.5  | 8.5  | 0.6 | 4.8  | 3.2   | 1.4 | 0.9  | 0.25   | 0.2-0.9       | 5.9         |               | 3.9         |               | 20          |     |
|              | 3/4"   | 9.0  | 9.0  | 0.8 | 5.1  | 3.5   | 1.7 | 1.0  | 0.25   | 0.2-0.9       | 5.9         |               | 4.1         |               | 29          |     |
| Class        | 1"     | 10.0 | 10.0 | 0.9 | 5.9  | 4.0   | 2.0 | 1.1  | 0.25   | 0.2-1.0       | 7.9         |               | 4.3         |               | 35          |     |
| 900          | 1-1/4" | 11.0 | 11.0 | 1.3 | 6.3  | 4.4   | 2.5 | 1.1  | 0.25   | 0.2-1.0       | 9.8         |               | 4.7         |               | 53          |     |
|              | 1-1/2" | 12.0 | 12.0 | 1.5 | 7.0  | 4.9   | 2.9 | 1.3  | 0.25   | 0.2-1.1       | 9.8         |               | 4.9         |               | 68          |     |
|              | 2"     | 14.5 | 14.6 | 2.0 | 8.5  | 6.5   | 3.6 | 1.5  | 0.25   | 0.3-1.0       | 13.8        |               | 6.3         |               | 99          |     |
|              | 1/2"   | 8.5  | 8.5  | 0.6 | 4.8  | 3.2   | 1.4 | 0.9  | 0.25   | 0.2-0.9       | 7.2         |               | 3.9         |               | 22          |     |
|              | 3/4"   | 9.0  | 9.0  | 0.8 | 5.1  | 3.5   | 1.7 | 1.0  | 0.25   | 0.2-0.9       | 7.9         |               | 4.1         |               | 31          |     |
| Class        | 1"     | 10.0 | 10.0 | 0.9 | 5.9  | 4.0   | 2.0 | 1.1  | 0.25   | 0.2-1.0       | 9.8         |               | 4.3         |               | 38          |     |
| 1500         | 1-1/4" | 11.0 | 11.0 | 1.3 | 6.3  | 4.4   | 2.5 | 1.1  | 0.25   | 0.2-1.0       | 11.8        |               | 4.7         |               | 55          |     |
|              | 1-1/2" | 12.0 | 12.0 | 1.5 | 7.0  | 4.9   | 2.9 | 1.3  | 0.25   | 0.2-1.1       | 13.18       |               | 5.1         |               | 73          |     |
|              | 2"     | 14.5 | 14.6 | 2.0 | 8.5  | 6.5   | 3.6 | 1.5  | 0.25   | 0.3-1.0       | 19.7        |               | 6.3         |               | 106         |     |



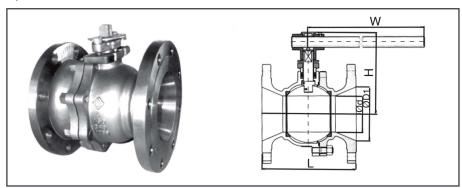
## **DIMENSIONS - FORGED STEEL**

The floating ball valve is generally a cast steel valve body; however, as required by the customer, forged steel valve body is also available, of which the main sizes such as flange connections and face-to-face dimensions are the same as that of the cast steel ball valve



#### REDUCED BORE

In addition to the full bore floating ball valve, the floating ball valve with reduced bore is also available to satisfy different requirements of the customer, which can not only lower the cost and the pricing, but also meet customers' special requirements.



|        |      | Class 300 |     |      |      |      |      |           | Class 600 |      |      |      |      |     |     |     |      |
|--------|------|-----------|-----|------|------|------|------|-----------|-----------|------|------|------|------|-----|-----|-----|------|
| Size   | L    |           | d   | d1   | н    | w    | L    | 1         | d         | d1   | н    | w    | L    | d   | d1  | н   | W    |
|        | Long | Short     | u   | a i  | С    | VV   | Long | Short     | u         | u i  | "    | VV   | _    | a   | a i | П   | VV   |
| 1/2"   | 4    | .3        | 0.4 | 0.6  | 3.1  | 5.5  | 5.   | 5.5       |           | 0.6  | 3.1  | 5.5  | 6.5  | 0.4 | 0.6 | 3.0 | 5.5  |
| 3/4"   | 4    | .6        | 0.6 | 0.7  | 3.3  | 5.5  | 6.   | 0         | 0.6       | 0.7  | 3.3  | 5.5  | 7.5  | 0.6 | 0.7 | 3.1 | 5.5  |
| 1"     | 5    | .0        | 0.8 | 1.0  | 3.5  | 5.5  | 6.   | 6.5       |           | 1.0  | 3.5  | 5.5  | 8.5  | 0.8 | 1.0 | 3.3 | 5.5  |
| 1-1/4" | 5    | .5        | 1.0 | 1.3  | 3.9  | 5.9  | 7.0  |           | 1.0       | 1.3  | 3.9  | 5.9  | 9.0  | 1.0 | 1.3 | 4.5 | 5.9  |
| 1-1/2" | 6    | .5        | 1.3 | 1.5  | 4.1  | 7.1  | 7.5  |           | 1.3       | 1.5  | 4.1  | 7.1  | 9.5  | 1.3 | 1.5 | 4.7 | 7.9  |
| 2"     | 7    | .0        | 1.5 | 2.0  | 5.0  | 7.9  | 8.   | 5         | 1.5       | 2.0  | 5.0  | 7.9  | 11.5 | 1.5 | 2.0 | 4.9 | 9.8  |
| 2-1/2" | 7    | .5        | 2.0 | 2.5  | 5.5  | 9.8  | 9.   | 5         | 2.0       | 2.5  | 5.5  | 9.8  | 13.0 | 2.0 | 2.5 | 6.1 | 11.8 |
| 3"     | 8    | .0        | 2.5 | 3.0  | 6.5  | 11.8 | 11   | .1        | 2.5       | 3.0  | 6.5  | 11.8 | 14.0 | 2.5 | 3.0 | 6.8 | 13.8 |
| 4"     | 9    | .0        | 3.0 | 4.0  | 7.0  | 13.8 | 12   | 0         | 3.0       | 4.0  | 7.0  | 13.8 | 17.0 | 3.0 | 4.0 | 8.7 | 19.7 |
| 5"     | 14   | 1.0       | 4.0 | 5.0  | 9.0  | 19.7 | 15   | .0        | 4.0       | 5.0  | 9.0  | 19.7 | 20.0 | 4.0 | 5.0 | 9.8 | 25.6 |
| 6"     | 15.5 | 10.5      | 5.0 | 6.0  | 11.0 | 31.5 | 15   | 15.9      |           | 6.0  | 11.0 | 31.5 |      |     |     |     |      |
| 8"     | 18.0 | 11.5      | 6.0 | 8.0  | 12.2 | 31.5 | 19.8 | 19.8 16.5 |           | 8.0  | 12.2 | 31.5 |      |     |     |     |      |
| 10"    | 21.0 | 13.0      | 8.0 | 10.0 | 13.8 | 39.4 | 22.4 | 22.4 18.0 |           | 10.0 | 13.8 | 39.4 |      |     |     |     |      |

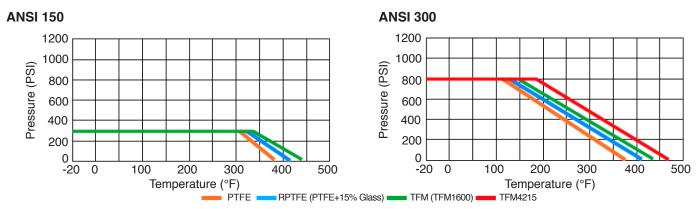


#### FLOATING BALL VALVE TORQUE VALUE INCH POUNDS

| Size       | 1/2" | 3/4" | 1"  | 1-1/4" | 1-1/2" | 2"   | 2-1/2" | 3"   | 4"   | 5"   | 6"   | 8"    |
|------------|------|------|-----|--------|--------|------|--------|------|------|------|------|-------|
| Cv         | 25   | 60   | 115 | 185    | 270    | 500  | 805    | 1160 | 2120 | 3415 | 5075 | 9340  |
| ANSI Class |      |      |     |        |        |      |        |      |      |      |      |       |
| 150        | 124  | 159  | 212 | 319    | 460    | 620  | 797    | 1062 | 2478 | 3806 | 6195 | 9735  |
| 300        | 150  | 186  | 266 | 407    | 531    | 761  | 991    | 1593 | 3717 | 5133 | 8142 | 14160 |
| 600        | 212  | 310  | 602 | 841    | 1150   | 1681 | 3186   | 4071 | 6815 | C/F  | C/F  | C/F   |

For ANSI 900 and ANSI 1500, please contact J Flow Controls. Torques are based on TFE seats

## PRESSURE TEMPERATURE CHART



## **HOW TO ORDER**

| Series | Material |                 | Port |         |    | Packing       |    | Seat              | End Connections |           |  |
|--------|----------|-----------------|------|---------|----|---------------|----|-------------------|-----------------|-----------|--|
| 96     | 23       | Carbon Steel    | F    | Full    | G  | Grafoil       | Т  | Teflon            | BW              | Butt Weld |  |
|        | 33       | Stainless Steel | R    | Reduced | Т  | Teflon        | Р  | Peek              | F1              | ANSI 150  |  |
|        | 03       | LCB Steel       |      |         | TM | Carbon Teflon | R  | Reinforced Teflon | F3              | ANSI 300  |  |
|        |          |                 |      |         |    |               | N  | Nylon             | F6              | ANSI 600  |  |
|        |          |                 |      |         |    |               | ТМ | Carbon Teflon     | F9              | ANSI 900  |  |
|        |          |                 |      |         |    |               |    |                   | F15             | ANSI 1500 |  |
|        |          |                 |      |         |    |               |    |                   | F25             | ANSI 2500 |  |

Size: 1/2" - 8"

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