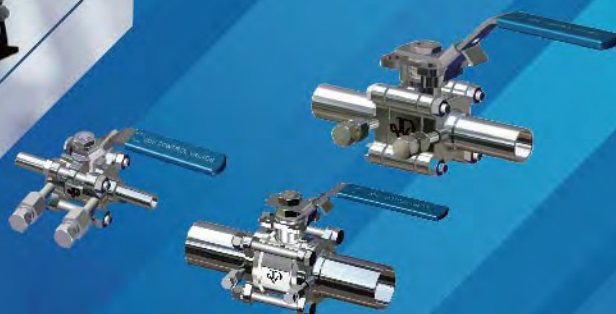


# JBF

S E R I E S

**E / ED / ELK Type**

**Semiconductor Ball Valves**



# JBF - E / ED / ELK

## BALL VALVE

### Industrial fields

- Semiconductor
- Clean For Oxygen Service
- Hook Up
- Inert Bulk Gas Distribution
- CDA / OFAS systems
- Utility Nitrogen Systems
- Bulk Chemical Delivery
- Process Vacuum Exhaust
- Point-of-Use Isolation

### Application Standards / Tests

- **Valve Body Material**  
304 / 316 / 304L / 316L  
Other materials on request.
- **Size**
  - JBF-E: Tube OD 1/4" to 6"  
Pipe ID 1/2" to 14"
  - JBF-ED: Pipe 1/2" to 4"
  - JBF-ELK: Tube OD 1/4" to 3/4"
- **Temperature Range**  
-20~350°F (-29~175°C)
- **Pressure Rating**  
ASME CLASS 150  
JIS 10K / JIS 20K
- **Connection Type**
  - SCH 5S/TUBE by automatic butt welding
  - SCH 10S by manual butt welding
- **Clean Production Line**
  - 10,000 Particles clean room
  - Oil-free treatment
  - Fully assembly and testing in clean room
  - Vacuum bag package
- **Operation Mode**
  - Lever / Handle / Gear Box
  - Actuator
- **Purge Port Options**  
NPP / OPP / IOPP
- **Casting Standard**  
MSS-SP-25 / MSS-SP-55
- **Leak Test**  
100% Leak tested.
- **Helium Leakage Rate**
  - 1/4" - 8" valves leak tested to  $1 \times 10^{-8}$  scc / sec
  - 10" - up valves leak tested to  $1 \times 10^{-7}$  scc / sec
- **Internal Surface Roughness Level**
  - AP: Ra 0.8μm
  - BA: Ra 0.4μm for 4" and below
  - Ra 0.5μm for 5" and above
  - EP: Ra 0.2μm Electrdytic Polishing
  - Average roughness can be customized according to project requirements.

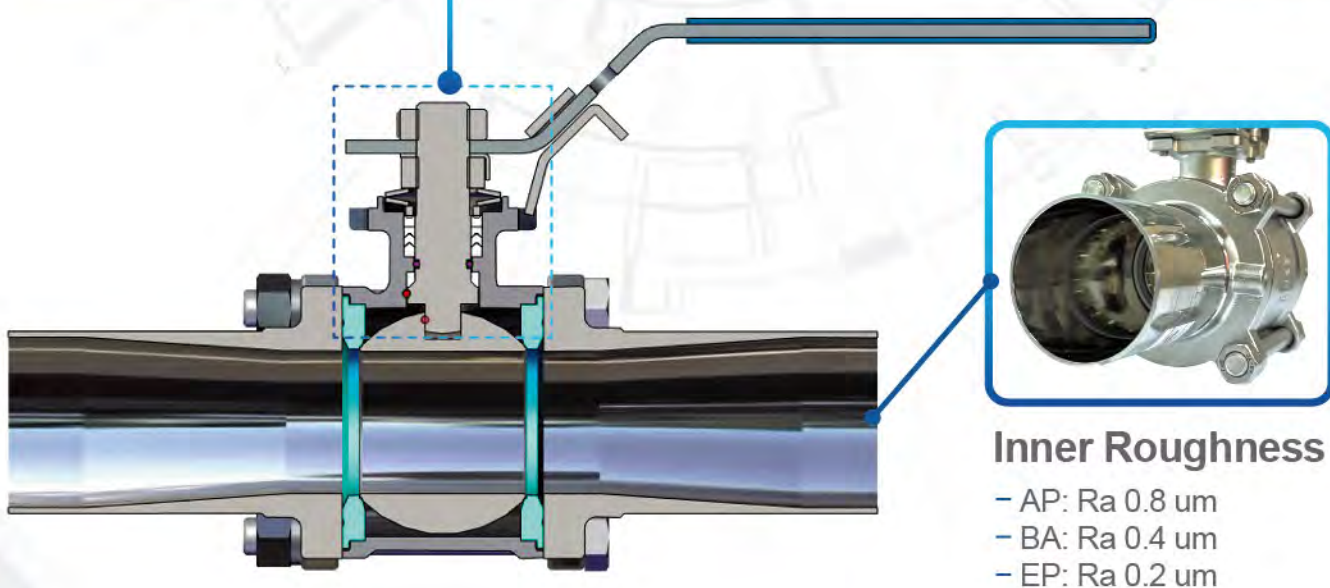
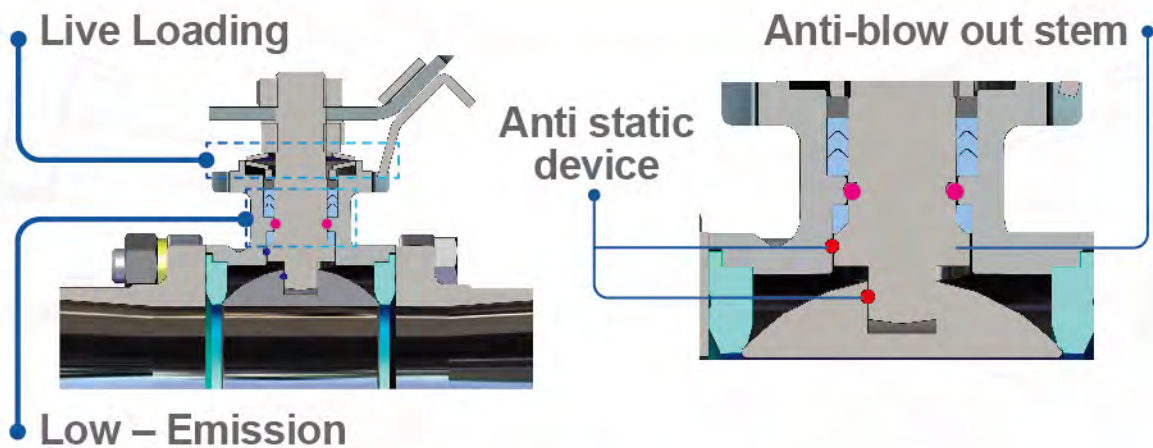
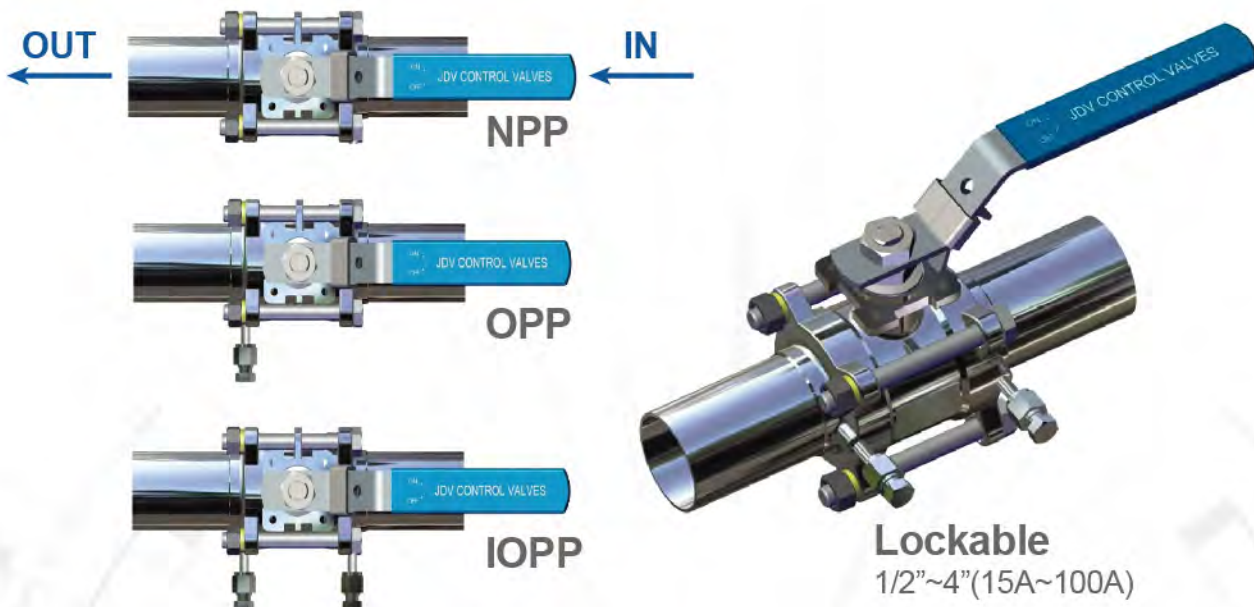


## Highly-sophisticated Clean Process

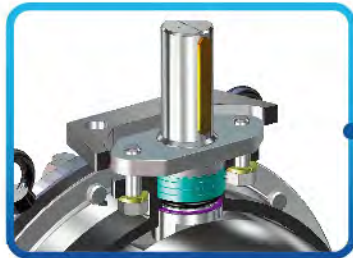




# **JBF - E / ED TYPE 1 / 4"~4" (8A~100A)** **DESIGN FEATURES**



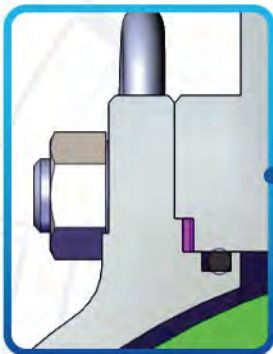
## JBF - E TYPE 5"~14" (125A~350A) DESIGN FEATURES



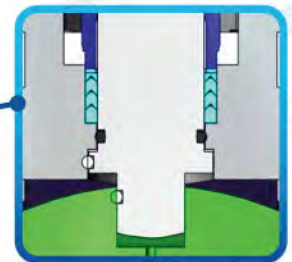
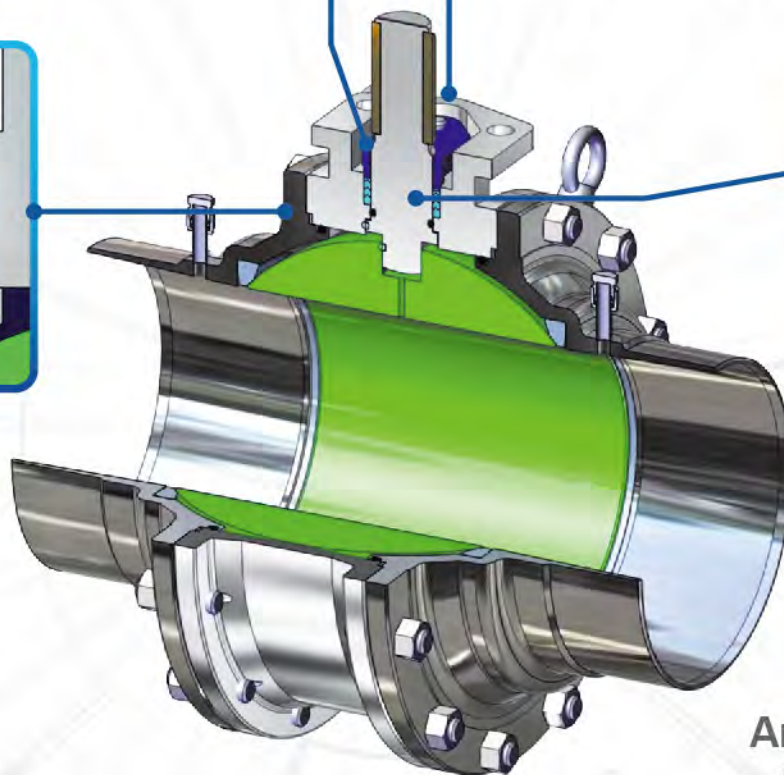
Adjustable Gland



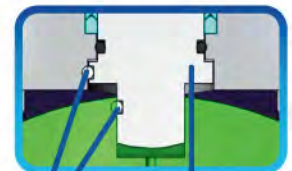
ISO 5211 Direct  
Mounting Pad



Double  
Seal Ring



Low-Emission



Anti static  
device      Anti-blow  
out stem

Lifting  
Eye Bolt



Purge Port  
NPP / OPP / IOPP  
SIZE: 1/4" or 1/2"

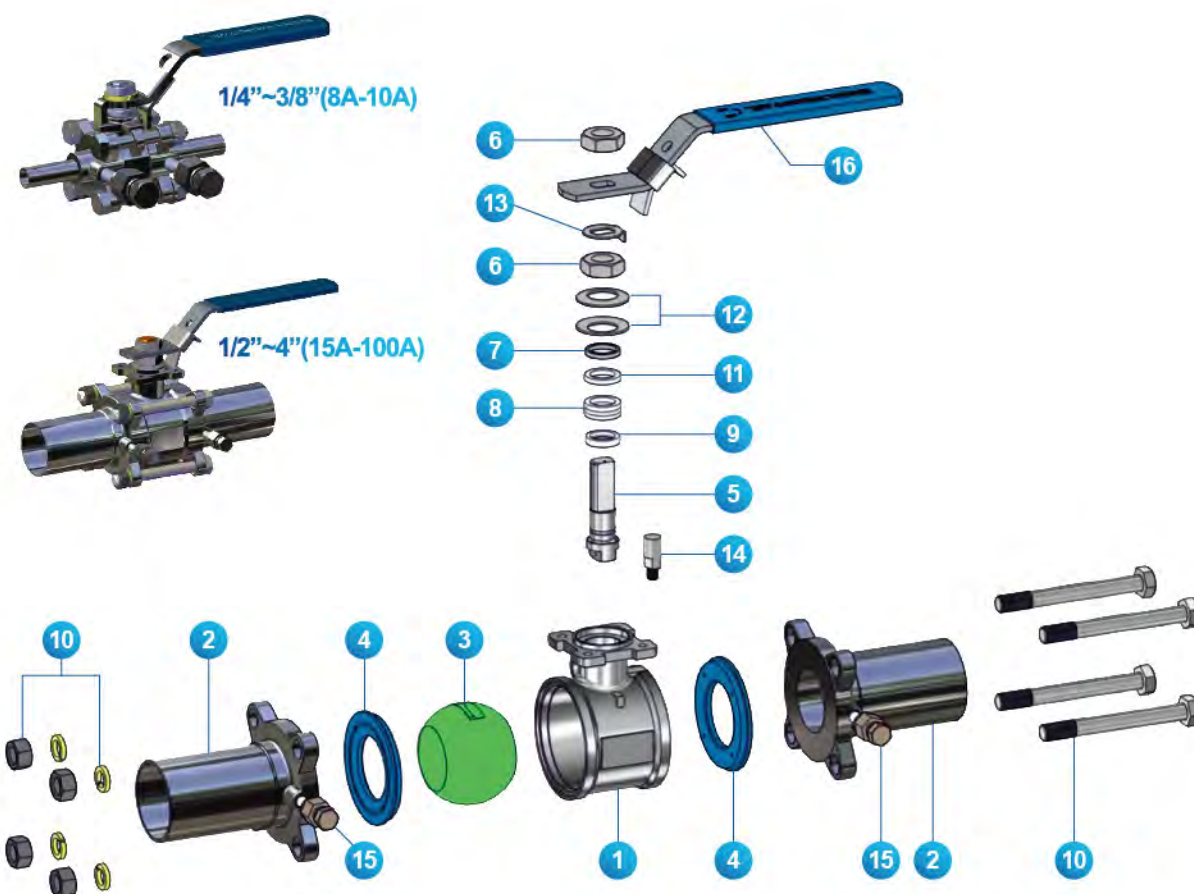
Lock Device





# JBF - E

SIZE 1/4"~4" (8A~100A)

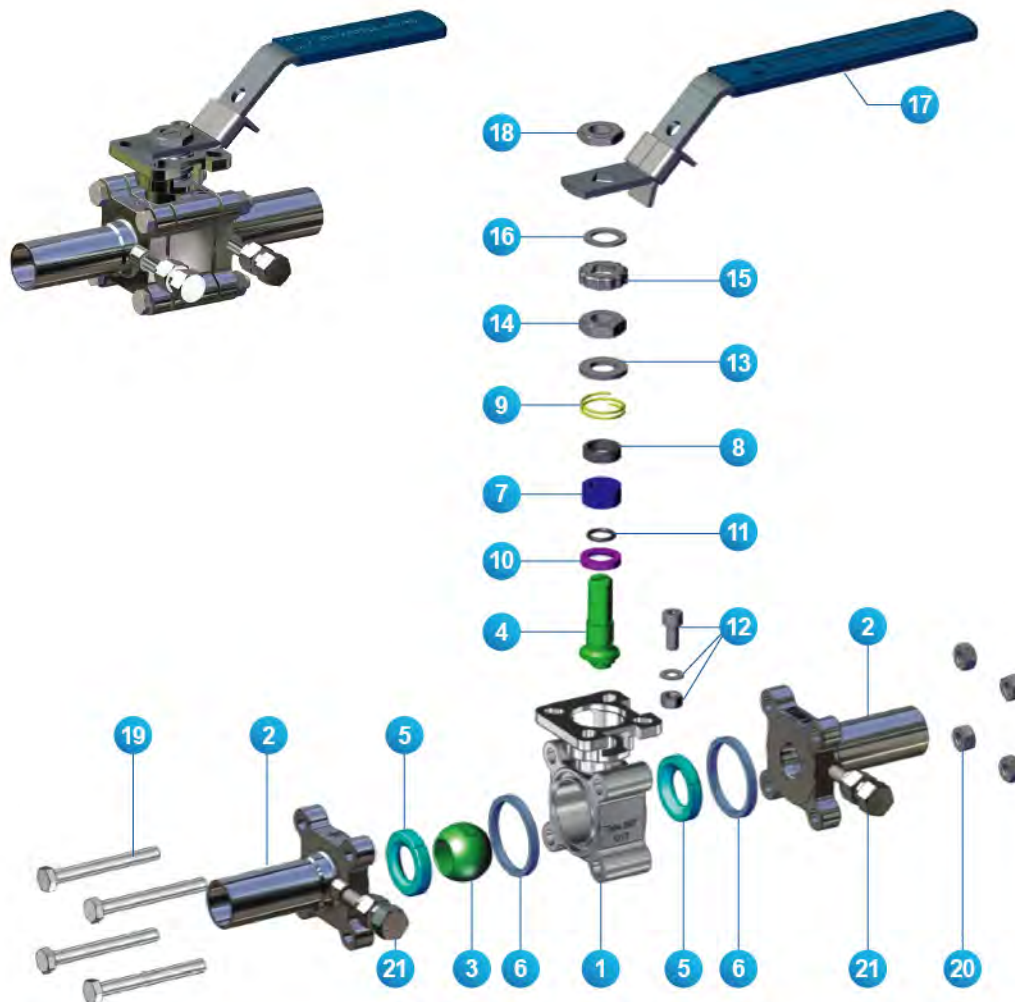


## MATERIALS

| NO | PART NAME     | MATERIAL    | NO | PART NAME              | MATERIAL                     |
|----|---------------|-------------|----|------------------------|------------------------------|
| 1  | BODY          | 316 / CF8M  | 9  | STEM WASHER            | PTFE                         |
| 2  | END CAP       | 316L / CF3M | 10 | BOLT & NUT<br>& WASHER | 304SS                        |
| 3  | BALL          | 316SS       | 11 | BEARING                | 50% Stainless<br>Filled PTFE |
| 4  | SEAT          | PTFE        | 12 | SPRING                 | 301SS                        |
| 5  | STEM          | A276-316    | 13 | WASHER                 | 304SS                        |
| 6  | GLAND NUT     | 304SS       | 14 | POSITIONING PIN        | 304SS                        |
| 7  | GLAND BEARING | 304SS       | 15 | PURGE PORT SET         | 316SS                        |
| 8  | GLAND PACKING | PTFE        | 16 | HANDLE SET             | 304SS                        |

## JBF - ED

SIZE 1/2"~4" (15A~100A )



## MATERIALS

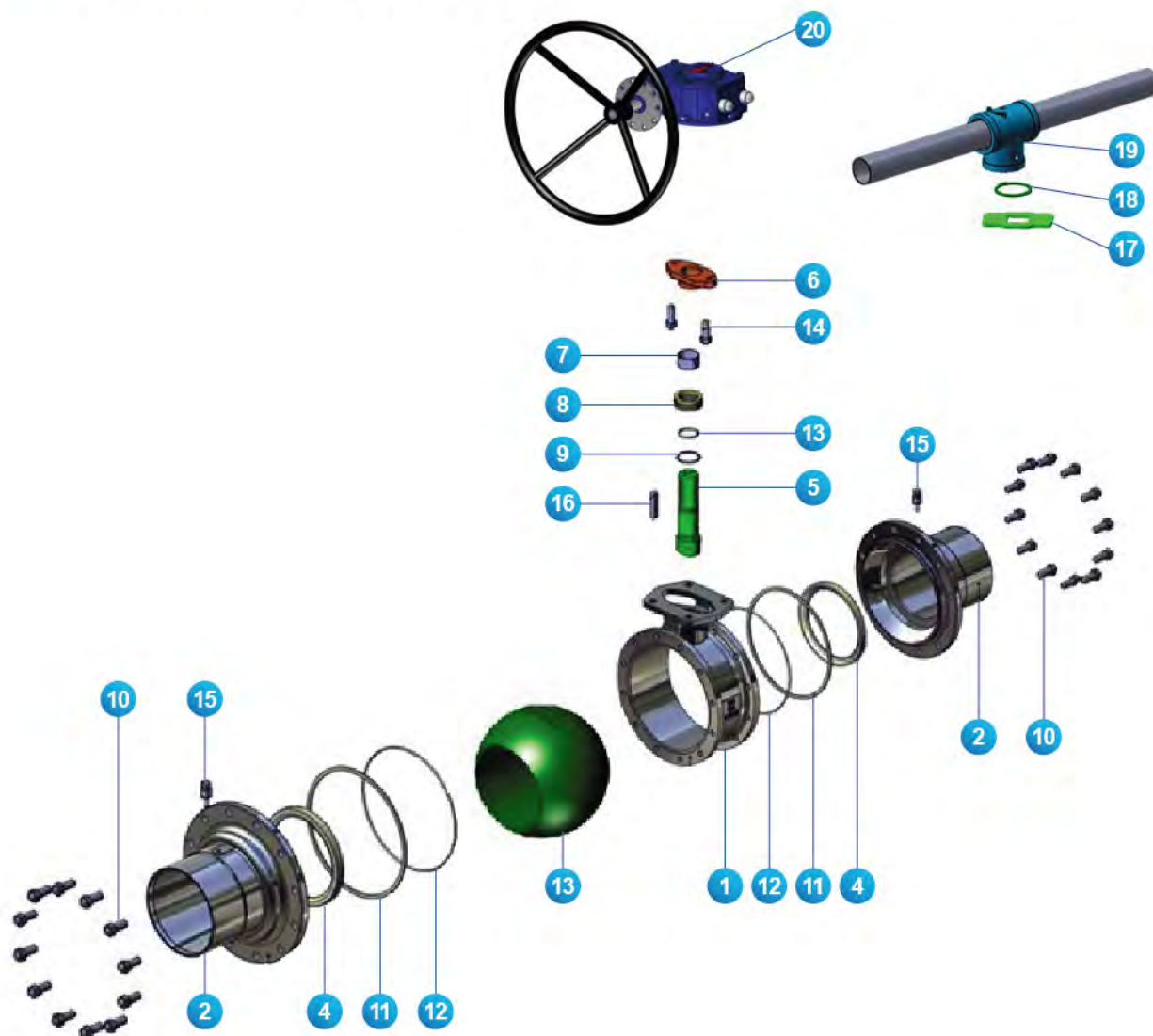
| NO | PART NAME     | MATERIAL               | NO | PART NAME         | MATERIAL     |
|----|---------------|------------------------|----|-------------------|--------------|
| 1  | BODY          | SCS14A ( 316 / CF8M )  | 11 | O-RING            | FKM          |
| 2  | CAP           | SCS16A ( 316L / CF3M ) | 12 | STOPPER SET       | A2-70 /SS304 |
| 3  | BALL          | A182-316               | 13 | BELLEVILLE WASHER | SS301        |
| 4  | STEM          | A182-316               | 14 | STEM NUT          | A2-70        |
| 5  | SEAT          | G-PTFE                 | 15 | SAFETY CAP        | SS304        |
| 6  | GASKET        | PTFE                   | 16 | DISTANCE RING     | SS304        |
| 7  | PACKING       | PTFE                   | 17 | HANDLE            | SS304-PVC    |
| 8  | PRESSURE RING | SS316                  | 18 | LOCK NUT          | A2-70        |
| 9  | SPRING        | SS304                  | 19 | SCREW             | A2-70        |
| 10 | STEM SEAL     | PTFE                   | 20 | NUT               | A2-70        |
|    |               |                        | 21 | PURGE PORT        | 316SS        |

NOTE : 1.NO.9 SPRING for 1/2"(15A) ONLY



# JBF - E

SIZE 5"~10" (125A~250A)



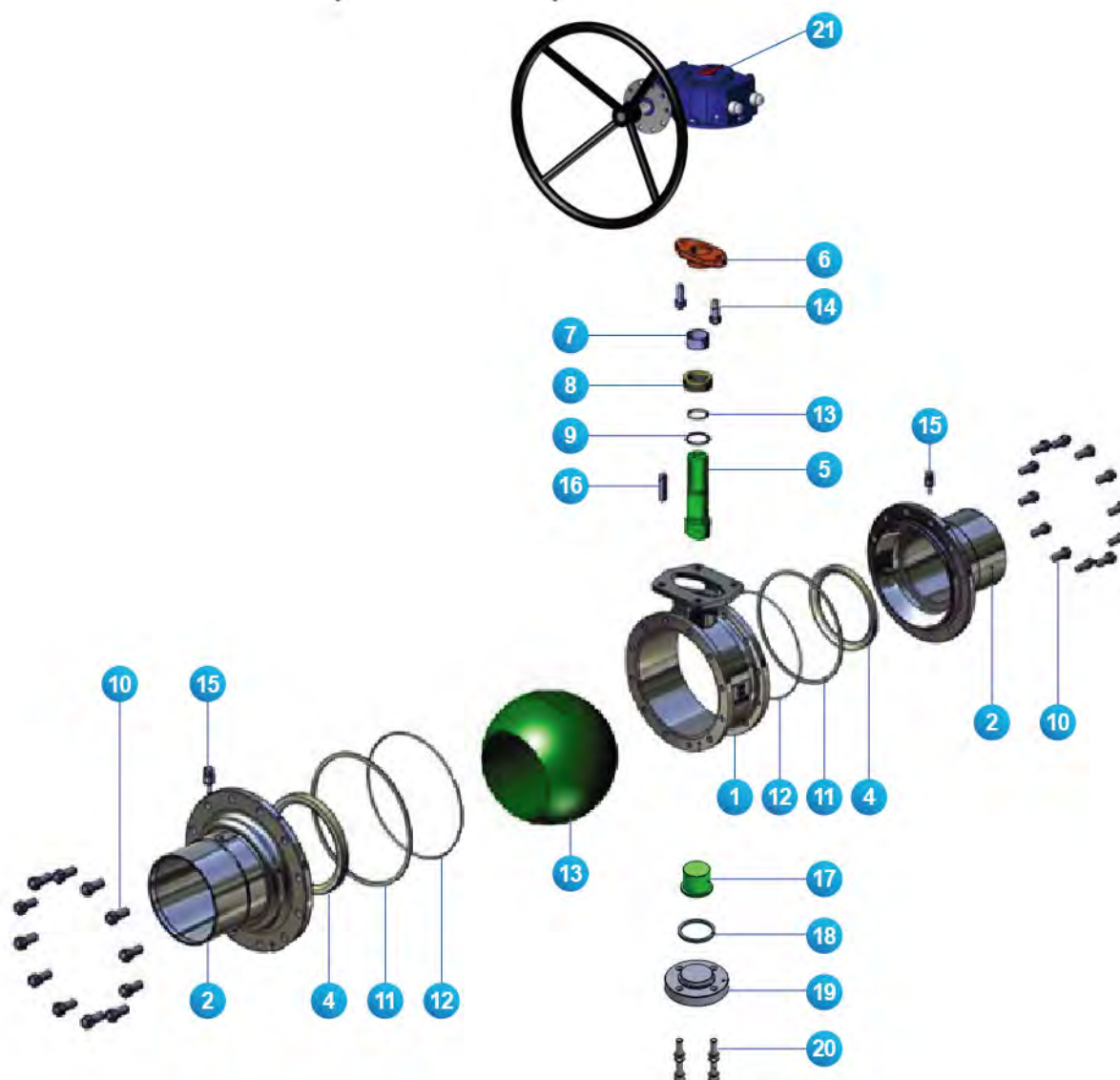
## MATERIALS

| NO | PART NAME     | MATERIAL                      | NO | PART NAME       | MATERIAL             |
|----|---------------|-------------------------------|----|-----------------|----------------------|
| 1  | BODY          | SCS13A / SCS14A<br>CF8 / CF8M | 11 | BODY SEAL       | PTFE                 |
| 2  | END CAP       | SCS19A / SCS16A<br>CF3 / CF3M | 12 | O-RING(BODY)    | VITON                |
| 3  | BALL          | A351-CF8M                     | 13 | O-RING(STEM)    | VITON                |
| 4  | SEAT          | RTFE                          | 14 | BOLT & NUT      | A2-70                |
| 5  | STEM          | A276-316                      | 15 | PURGE PORT SET  | 316SS                |
| 6  | GLAND         | A351-CF8                      | 16 | KEY(GEAR BOX)   | S45C                 |
| 7  | GLAND BEARING | RTFE                          | 17 | TRAVEL STOP(MO) | A240-304(5")         |
| 8  | GLAND PACKING | PTFE                          | 18 | SNAP RING(MO)   | AISI 420(5")         |
| 9  | STEM WASHER   | RTFE                          | 19 | HANDLE SET(MO)  | FCD45+SGP(5")        |
| 10 | BOLT & NUT    | A2-70                         | 20 | GEAR GROUP      | DUCTILE IRON / STEEL |



# JBF - E

SIZE 12"~14" (300A~350A)

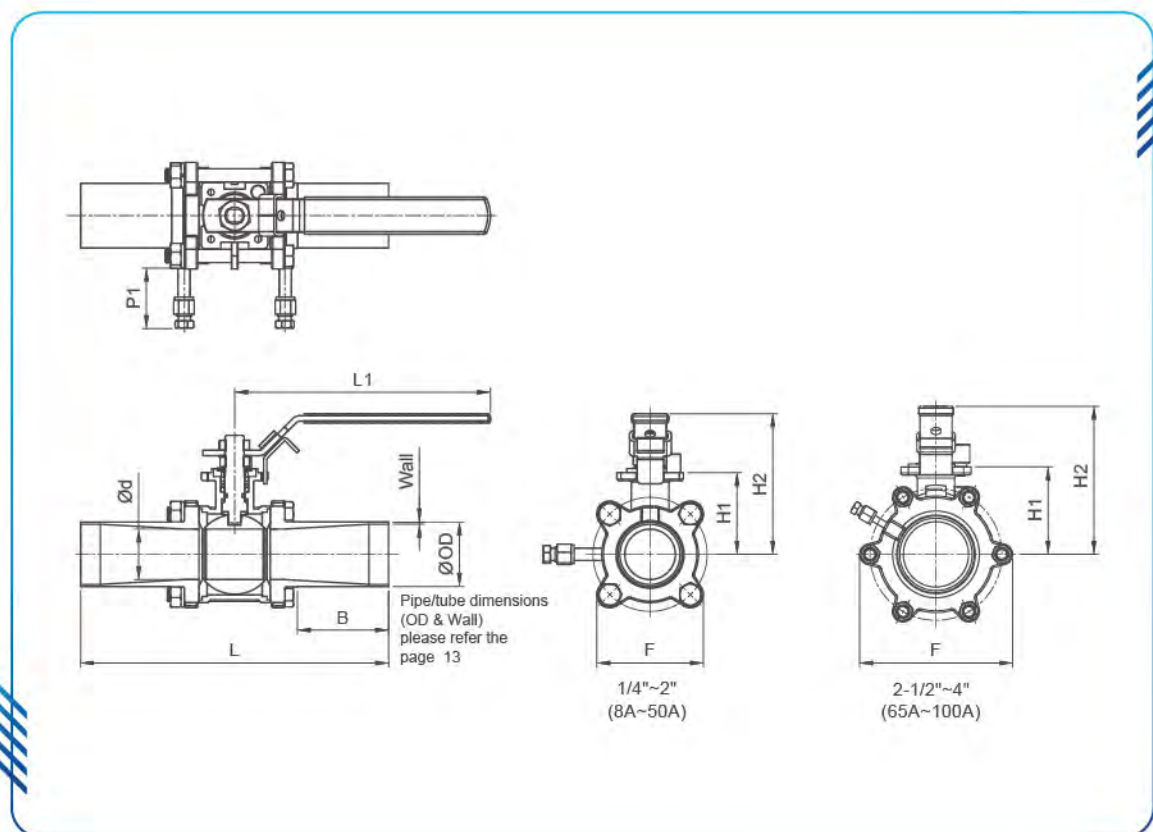


## MATERIALS

| NO | PART NAME     | MATERIAL                      | NO | PART NAME           | MATERIAL             |
|----|---------------|-------------------------------|----|---------------------|----------------------|
| 1  | BODY          | SCS13A / SCS14A<br>CF8 / CF8M | 11 | BODY SEAL           | PTFE                 |
| 2  | END CAP       | SCS19A / SCS16A<br>CF3 / CF3M | 12 | O-RING(BODY)        | VITON                |
| 3  | BALL          | A351-CF8M                     | 13 | O-RING(STEM)        | VITON                |
| 4  | SEAT          | RTFE                          | 14 | BOLT & NUT          | A2-70                |
| 5  | STEM          | A276-316                      | 15 | PURGE PORT SET      | 316SS                |
| 6  | GLAND         | A351-CF8                      | 16 | KEY(GEAR BOX)       | S45C                 |
| 7  | GLAND BEARING | RTFE                          | 17 | SUPPORT STEM        | A276-316+HF          |
| 8  | GLAND PACKING | PTFE                          | 18 | SUPPORT STEM GASKET | PTFE                 |
| 9  | STEM WASHER   | RTFE                          | 19 | COVER               | A276-316             |
| 10 | BOLT & NUT    | A2-70                         | 20 | BOLT                | A2-70                |
|    |               |                               | 21 | GEAR GROUP          | DUCTILE IRON / STEEL |

# JBF - E

SIZE 1/4" ~4" (8A-100A)



## DIMENSIONS

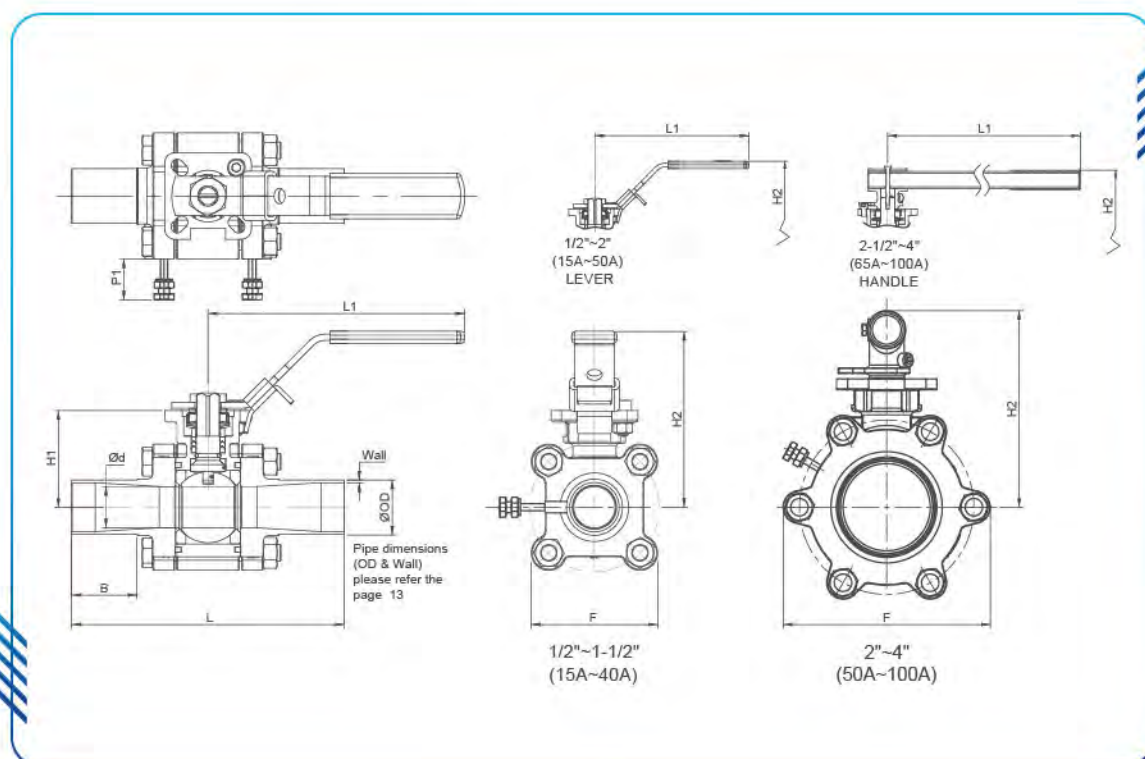
(mm)

| SIZE |        | d<br>(bore) | L     | F     | B    | P1 | H1    | H2    | L1    | TUBE | PURGE<br>PORT | PIPE | PURGE<br>PORT | Wt (Kg) |       |
|------|--------|-------------|-------|-------|------|----|-------|-------|-------|------|---------------|------|---------------|---------|-------|
|      |        |             |       |       |      |    |       |       |       |      |               |      |               | TUBE    | PIPE  |
| 8A   | 1/4"   | 8           | 100.4 | 37    | 25.4 | 39 | -     | 50    | 105   | V    | 1/4"          | -    |               | 0.5     | -     |
| 10A  | 3/8"   | 10          | 100.4 | 37    | 25.4 | 39 | -     | 50    | 105   | V    | 1/4"          | -    |               | 0.5     | -     |
| 15A  | 1/2"   | 15          | 150.7 | 46.2  | 45.3 | 39 | 34.5  | 71.7  | 136   | V    | 1/4"          | 5S   | 1/4"          | 0.8     | 0.9   |
| 20A  | 3/4"   | 20          | 155.7 | 51.2  | 45.3 | 39 | 37    | 74.2  | 136   | V    | 1/4"          | 5S   | 1/4"          | 1       | 1.1   |
| 25A  | 1"     | 25          | 186.2 | 56.9  | 58.3 | 39 | 43.5  | 95.4  | 152   | V    | 1/4"          | 5S   | 1/4"          | 1.4     | 1.5   |
| 32A  | 1-1/4" | 32          | 195.6 | 65.0  | 58.3 | 39 | 49.0  | 100.9 | 152   | V    | 1/4"          | 5S   | 1/4"          | 1.9     | 2.1   |
| 40A  | 1-1/2" | 38          | 231.6 | 78.7  | 67.9 | 39 | 57.1  | 105.7 | 190   | V    | 1/4"          | 5S   | 1/4"          | 3       | 3.2   |
| 50A  | 2"     | 50          | 243.4 | 90.4  | 68.0 | 39 | 65.3  | 113.9 | 190   | V    | 1/4"          | 5S   | 1/4"          | 4.4     | 4.4   |
| 65A  | 2-1/2" | 65          | 290.2 | 152.3 | 77.8 | 39 | 87.0  | 148.5 | 303   | V    | 1/4"          | 5S   | 1/4"          | 9.53    | 9.65  |
| 80A  | 3"     | 80          | 302.2 | 180.8 | 78.0 | 39 | 96.5  | 157.5 | 303   | V    | 1/2"          | 5S   | 1/4"          | 13.95   | 13.47 |
| 100A | 4"     | 100         | 324.6 | 215.1 | 76.8 | 39 | 117.5 | 182.7 | 446.5 | V    | 1/2"          | 5S   | 1/4"          | 22.79   | 22.93 |



## JBF - ED

### SIZE 1/2" ~4" (15A-100A)



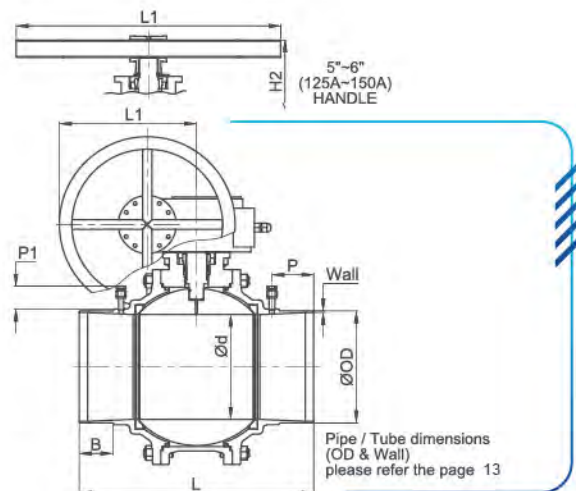
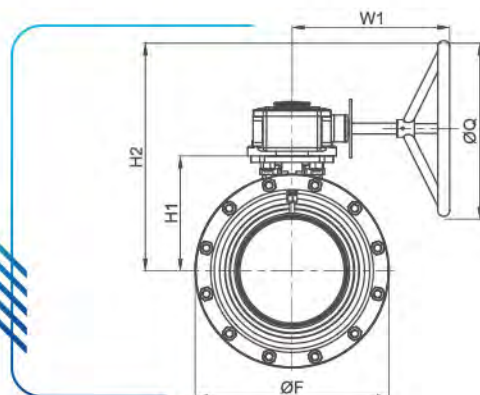
## DIMENSIONS

(mm)

| SIZE |        | d<br>(bore) | L     | F     | B    | P1 | H1    | H2    | L1    | PIPE   | PURGE<br>PORT | Wt (Kg)<br>-----<br>PIPE |
|------|--------|-------------|-------|-------|------|----|-------|-------|-------|--------|---------------|--------------------------|
| 15A  | 1/2"   | 15          | 150.7 | 59.5  | 45.5 | 39 | 42.6  | 80.7  | 144   | 5S/10S | 1/4"          | 0.9                      |
| 20A  | 3/4"   | 20          | 155.7 | 66.5  | 45.5 | 39 | 46.8  | 85.8  | 144   | 5S/10S | 1/4"          | 1.1                      |
| 25A  | 1"     | 25          | 186.2 | 74.6  | 58.5 | 39 | 59.3  | 95.6  | 165   | 5S/10S | 1/4"          | 1.5                      |
| 32A  | 1-1/4" | 32          | 195.6 | 86.1  | 58.5 | 39 | 62.6  | 99.6  | 165   | 5S/10S | 1/4"          | 2.1                      |
| 40A  | 1-1/2" | 38          | 231.6 | 103.8 | 68.5 | 39 | 79.0  | 127   | 215   | 5S/10S | 1/4"          | 3.2                      |
| 50A  | 2"     | 50          | 243.4 | 120.3 | 68.5 | 39 | 87.7  | 135.7 | 243.4 | 5S/10S | 1/4"          | 4.4                      |
| 65A  | 2-1/2" | 65          | 290.2 | 152.3 | 78.5 | 39 | 108.7 | 173   | 290.2 | 5S/10S | 1/4"          | 9.65                     |
| 80A  | 3"     | 80          | 302.2 | 177.8 | 78.5 | 39 | 117.7 | 185   | 302.2 | 5S/10S | 1/4"          | 13.47                    |
| 100A | 4"     | 100         | 326.2 | 212.9 | 78.5 | 39 | 133.7 | 198   | 326.2 | 5S/10S | 1/4"          | 22.93                    |

# JBF - E

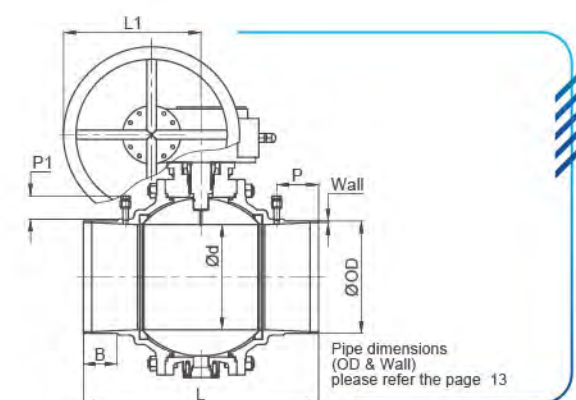
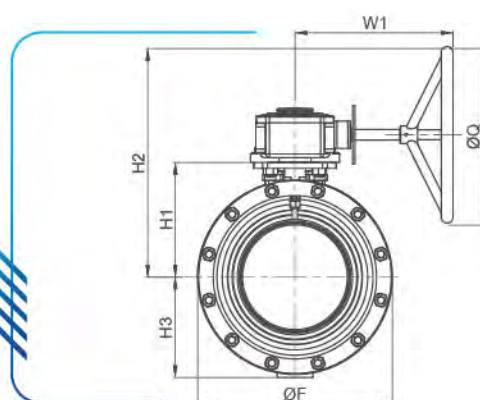
SIZE 5"~14"(125A~350A)



## DIMENSIONS

(mm)

| SIZE |     | d   | L   | F   | B  | P   | P1 | H1  | HANDLE |     | GEAR BOX |     |     |     | TUBE | PURGE PORT | PIPE   | PURGE PORT | Wt (Kg) |      |
|------|-----|-----|-----|-----|----|-----|----|-----|--------|-----|----------|-----|-----|-----|------|------------|--------|------------|---------|------|
|      |     |     |     |     |    |     |    |     | H2     | L1  | H2       | L1  | W1  | Q   |      |            |        |            | TUBE    | PIPE |
| 125A | 5"  | 125 | 386 | 250 | 65 | 80  | 39 | 172 | 250    | 450 | 412      | 266 | 288 | 400 | V    | ½"         | 5S/10S | ¼"         | 45      | 51   |
| 150A | 6"  | 150 | 415 | 295 | 65 | 80  | 54 | 191 | 274    | 600 | 431      | 266 | 288 | 400 | V    | ½"         | 5S/10S | ¼"         | 67      | 74   |
| 200A | 8"  | 200 | 521 | 380 | 80 | 100 | 54 | 237 | -      | -   | 477      | 266 | 288 | 400 | -    | ½"         | 5S/10S | ½"         | 123     | 123  |
| 250A | 10" | 250 | 559 | 465 | 80 | 100 | 54 | 275 | -      | -   | 626      | 386 | 329 | 600 | -    | ½"         | 5S/10S | ½"         | 218     | 218  |



## DIMENSIONS

(mm)

| SIZE |     | d   | L   | F   | B  | P   | P1 | H1  | H3  | GEAR BOX |     |     |     | PIPE   | PURGE PORT | Wt (Kg) |
|------|-----|-----|-----|-----|----|-----|----|-----|-----|----------|-----|-----|-----|--------|------------|---------|
|      |     |     |     |     |    |     |    |     |     | H2       | L1  | W1  | Q   |        |            |         |
| 300A | 12" | 300 | 635 | 560 | 80 | 100 | 54 | 340 | 287 | 695      | 386 | 329 | 600 | 5S/10S | 1/2"       | 360     |
| 350A | 14" | 336 | 810 | 635 | 80 | 100 | 54 | 613 | 402 | 970      | 405 | 330 | 600 | 5S/10S | 1/2"       | 687     |



## PIPE DIMENSIONS

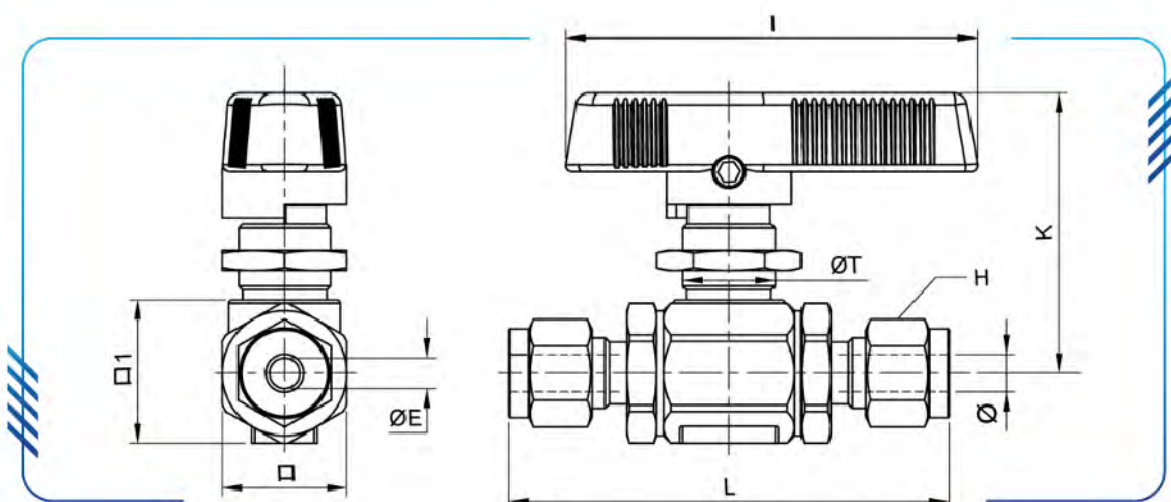
| ASME PIPE<br>Dimensions |        |        |         |      |          |      | JIS PIPE<br>Dimensions in Millimeters |       |         |          |
|-------------------------|--------|--------|---------|------|----------|------|---------------------------------------|-------|---------|----------|
| SIZE                    | O.D.   |        | 5S Wall |      | 10S Wall |      | SIZE                                  | O.D.  | 5S Wall | 10S Wall |
|                         | in     | mm     | in      | mm   | in       | mm   |                                       |       |         |          |
| NPS 1/2                 | 0.840  | 21.34  | 0.065   | 1.65 | 0.083    | 2.11 | 15A                                   | 21.7  | 1.65    | 2.10     |
| NPS 3/4                 | 1.050  | 26.67  | 0.065   | 1.65 | 0.083    | 2.11 | 20A                                   | 27.2  | 1.65    | 2.10     |
| NPS 1                   | 1.320  | 33.53  | 0.065   | 1.65 | 0.109    | 2.77 | 25A                                   | 34.0  | 1.65    | 2.80     |
| NPS 1-1/4               | 1.660  | 42.16  | 0.065   | 1.65 | 0.109    | 2.77 | 32A                                   | 42.7  | 1.65    | 2.80     |
| NPS 1-1/2               | 1.900  | 48.26  | 0.065   | 1.65 | 0.109    | 2.77 | 40A                                   | 48.6  | 1.65    | 2.80     |
| NPS 2                   | 2.380  | 60.45  | 0.065   | 1.65 | 0.109    | 2.77 | 50A                                   | 60.5  | 1.65    | 2.80     |
| NPS 2-1/2               | 2.880  | 73.15  | 0.083   | 2.11 | 0.120    | 3.05 | 65A                                   | 76.3  | 2.10    | 3.00     |
| NPS 3                   | 3.500  | 88.90  | 0.083   | 2.11 | 0.120    | 3.05 | 80A                                   | 89.1  | 2.10    | 3.00     |
| NPS 3-1/2               | 4.000  | 101.60 | 0.083   | 2.11 | 0.120    | 3.05 | 90A                                   | 101.6 | 2.10    | 3.00     |
| NPS 4                   | 4.500  | 114.30 | 0.083   | 2.11 | 0.120    | 3.05 | 100A                                  | 114.3 | 2.10    | 3.00     |
| NPS 5                   | 5.560  | 141.22 | 0.109   | 2.77 | 0.134    | 3.40 | 125A                                  | 139.8 | 2.80    | 3.40     |
| NPS 6                   | 6.620  | 168.15 | 0.109   | 2.77 | 0.134    | 3.40 | 150A                                  | 165.2 | 2.80    | 3.40     |
| NPS 8                   | 8.620  | 218.95 | 0.109   | 2.77 | 0.148    | 3.76 | 200A                                  | 216.3 | 2.80    | 4.00     |
| NPS 10                  | 10.750 | 273.05 | 0.134   | 3.40 | 0.165    | 4.19 | 250A                                  | 267.4 | 3.40    | 4.00     |
| NPS 12                  | 12.750 | 323.85 | 0.156   | 3.96 | 0.180    | 4.57 | 300A                                  | 318.5 | 4.00    | 4.50     |
| NPS 14                  | 14.000 | 355.60 | 0.156   | 3.96 | 0.188    | 4.78 | 350A                                  | 355.6 | 4.00    | 5.00     |
| NPS 16                  | 16.000 | 406.40 | 0.165   | 4.19 | 0.188    | 4.78 | 400A                                  | 406.4 | 4.50    | 5.00     |
| NPS 18                  | 18.000 | 457.20 | 0.165   | 4.19 | 0.188    | 4.78 | 450A                                  | 457.2 | 4.50    | 5.00     |
| NPS 20                  | 20.000 | 508.00 | 0.188   | 4.78 | 0.218    | 5.54 | 500A                                  | 508.0 | 5.00    | 5.50     |
| NPS 22                  | 22.000 | 558.80 | 0.188   | 4.78 | 0.218    | 5.54 | 550A                                  | 558.8 | 5.00    | 5.50     |
| NPS 24                  | 24.000 | 609.60 | 0.218   | 5.54 | 0.250    | 6.35 | 600A                                  | 609.6 | 5.50    | 6.50     |
|                         |        |        |         |      |          |      | 650A                                  | 660.4 | 5.50    | 6.50     |

## TUBE DIMENSIONS

| ASME / JIS TUBE<br>Dimensions |       |       |       |      | ASME / JIS TUBE<br>Dimensions |       |        |       |      |
|-------------------------------|-------|-------|-------|------|-------------------------------|-------|--------|-------|------|
| SIZE                          | O.D.  |       | Wall  |      | SIZE                          | O.D.  |        | Wall  |      |
|                               | in    | mm    | in    | mm   |                               | in    | mm     | in    | mm   |
| 1/8"                          | 0.125 | 3.18  | 0.028 | 0.71 | 1-1/2"                        | 1.500 | 38.10  | 0.065 | 1.65 |
| 1/4"                          | 0.250 | 6.35  | 0.035 | 0.89 | 2"                            | 2.000 | 50.80  | 0.065 | 1.65 |
| 3/8"                          | 0.375 | 9.53  | 0.035 | 0.89 | 2-1/2"                        | 2.500 | 63.50  | 0.065 | 1.65 |
| 1/2"                          | 0.500 | 12.70 | 0.049 | 1.24 | 3"                            | 3.000 | 76.20  | 0.065 | 1.65 |
| 3/4"                          | 0.750 | 19.05 | 0.065 | 1.65 | 4"                            | 4.000 | 101.60 | 0.083 | 2.11 |
| 1"                            | 1.000 | 25.40 | 0.065 | 1.65 | 6"                            | 6.000 | 152.40 | 0.109 | 2.77 |

# JBF-ELK

SIZE 1/4"~3/4" (8A~20A)



## DIMENSIONS

MATERIAL : 316/CF8M/SCS14A

| Order No.                        | Tube OD       | Panel Hole Size | Dimensions      |    |      |      |           |             | H     |
|----------------------------------|---------------|-----------------|-----------------|----|------|------|-----------|-------------|-------|
|                                  | $\varnothing$ | $\varnothing T$ | $\varnothing E$ | I  | K    | L    | $\square$ | $\square 1$ |       |
| JB-F-ELK-8A-F<br>JB-F-ELK-8A-C   | 1/4"          | 16.3            | 4.8             | 53 | 53.5 | 69   | 22        | 22          | 14    |
| JB-F-ELK-10A-F<br>JB-F-ELK-10A-C | 3/8"          | 16.3            | 7               | 53 | 53.5 | 71   | 22        | 22          | 17    |
| JB-F-ELK-15A-F<br>JB-F-ELK-15A-C | 1/2"          | 19.5            | 9.2             | 71 | 60   | 81.5 | 26        | 28          | 22    |
| JB-F-ELK-20A-F<br>JB-F-ELK-20A-C | 3/4"          | 19.5            | 12.6            | 71 | 65.5 | 86.6 | 32        | 34          | 28.57 |

F: FORGING 316SS

C: CASTING CF8M / SCS14A



## TORQUE TABLE

### JBF-E / ED PIPE / TUBE BALL VALVE (8A~100A)

| SIZE | 1 Mpa | 2 Mpa | Type        |
|------|-------|-------|-------------|
| 8A   | 3     | 7     | TUBE        |
| 10A  | 3     | 7     | TUBE        |
| 15A  | 6     | 13    | PIPE / TUBE |
| 20A  | 10    | 21    | PIPE / TUBE |
| 25A  | 12    | 25    | PIPE / TUBE |
| 32A  | 16    | 33    | PIPE / TUBE |
| 40A  | 18    | 37    | PIPE / TUBE |
| 50A  | 22    | 45    | PIPE / TUBE |
| 65A  | 60    | 122   | PIPE / TUBE |
| 80A  | 75    | 152   | PIPE / TUBE |
| 100A | 110   | 223   | PIPE / TUBE |

### JBF-E PIPE / TUBE BALL VALVE (125A~350A)

| SIZE | 1 Mpa | 2 Mpa | Type        |
|------|-------|-------|-------------|
| 125A | 227   | 454   | PIPE / TUBE |
| 150A | 418   | 680   | PIPE / TUBE |
| 200A | 672   | 1184  | PIPE        |
| 250A | 855   | 1421  | PIPE        |
| 300A | 1150  | 1600  | PIPE        |
| 350A | 1750  | 2650  | PIPE        |

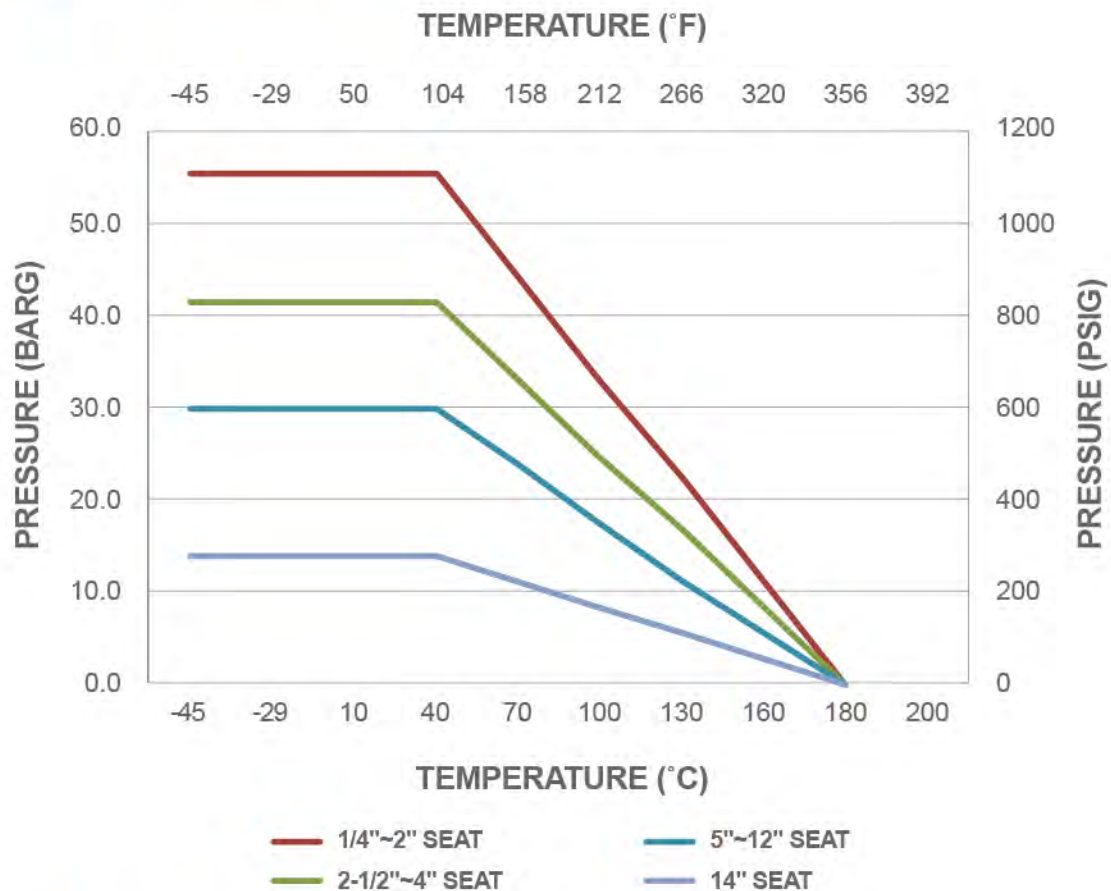
## JBF - E C<sub>v</sub> VALUES

### DIMENSIONS

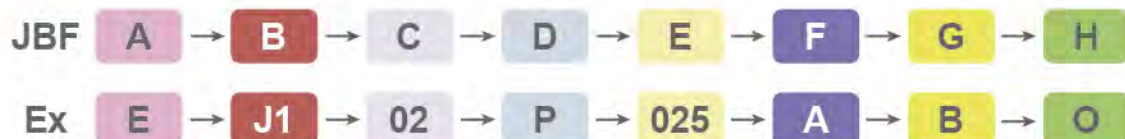
(mm)

| SIZE | 8A   | 10A  | 15A  | 20A  | 25A | 32A    | 40A    | 50A | 65A    | 80A  | 100A | 125A | 150A | 200A | 250A  | 300A  | 350A  |
|------|------|------|------|------|-----|--------|--------|-----|--------|------|------|------|------|------|-------|-------|-------|
|      | 1/4" | 3/8" | 1/2" | 3/4" | 1"  | 1-1/4" | 1-1/2" | 2"  | 2-1/2" | 3"   | 4"   | 5"   | 6"   | 8"   | 10"   | 12"   | 14"   |
| Tube | 2.9  | 9    | 16   | 41   | 86  | 146    | 223    | 432 | 713    | 1069 | 1971 | 3171 | 4688 | -    | -     | -     | -     |
| Pipe | -    | -    | 37   | 69   | 110 | 178    | 269    | 481 | 839    | 1301 | 2085 | 3338 | 4902 | 8980 | 14354 | 21048 | 26864 |

## JBF - E P-T Chart



## How to order



| A. TYPE | B. SPECIFICATION |              | C. BODY MAT'L |             | D. SEAT MAT'L |                        |
|---------|------------------|--------------|---------------|-------------|---------------|------------------------|
| E       | J1               | JIS SCH 5S   | 01            | CF8 / CF3   | P             | PTFE                   |
| ED      | J2               | JIS SCH 10S  | 02            | CF8M / CF3M | G             | G-PTFE                 |
|         | A1               | ASTM SCH 5S  |               |             | T             | (15% GLASS FIBER+PTFE) |
|         | A2               | ASTM SCH 10S |               |             |               | TFM-1600               |
|         | T                | TUBE         |               |             |               |                        |

| E. SIZE |        | F. OPTION |            | G. ROUGHNESS |    | H. Purge Port |       |
|---------|--------|-----------|------------|--------------|----|---------------|-------|
| 008     | 1/4"   | A         | BARE SHAFT | A            | AP | N             | NPP   |
| 010     | 3/8"   | H         | LEVER      | B            | BA | O             | OPP   |
| 015     | 1/2"   | G         | GEAR BOX   | E            | EP | IO            | I/OPP |
| 020     | 3/4"   | C         | ACTUATOR   |              |    |               |       |
| 025     | 1"     |           |            |              |    |               |       |
| 040     | 1-1/2" |           |            |              |    |               |       |
| 050     | 2"     |           |            |              |    |               |       |
| 065     | 2-1/2" |           |            |              |    |               |       |
| 080     | 3"     |           |            |              |    |               |       |
| 100     | 4"     |           |            |              |    |               |       |
| 125     | 5"     |           |            |              |    |               |       |
| 150     | 6"     |           |            |              |    |               |       |
| 200     | 8"     |           |            |              |    |               |       |
| 250     | 10"    |           |            |              |    |               |       |
| 300     | 12"    |           |            |              |    |               |       |
| 350     | 14"    |           |            |              |    |               |       |



## Reference Photos - Semiconductor Industry



Buk Gas System



CDA System



Bulk Gas System



Buk Gas System



CDA, N2, System



# Certificates

More than 180 certificates included quality system and product function tests to satisfy various market demand



ISO 9001



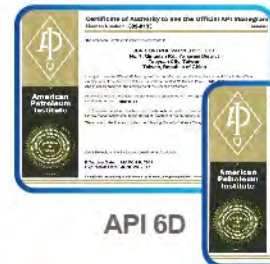
CE / PED



ISO 14001



ISO 18001



API 6D



API 609



ISO 45001



API 607



ISO 10497



API 6FA



ATEX



TA LUFT



ISO 15848



High Temperature Test



Cryogenic Test



SIL2/3



CRN



TSG



German TÜV Rheinland



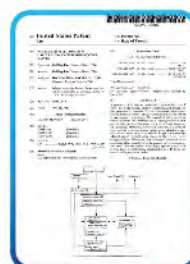
## OWNS Most Patents in Taiwan



Taiwan



China



USA



Germany



**The 1st valve manufacturer in Taiwan got awarded by Taiwan Excellence, and has been continuously 10 years.**



### • R&D

- The product features innovative R&D, demonstrating excellence in product functions and service systems.
- The product is characterized by intelligence and safety, energy efficiency, and design with environmental benefits such as energy conservation and carbon reduction.

### • Design

- Adopts a systematic development strategy and has market competitiveness potential.
- The materials and processes used in the product do not cause pollution and are designed for environmental protection, energy saving, and carbon reduction.

### • Product

- Total Quality Management (TQM) is extended to supply chain vendors, rapidly providing high-quality, innovative products that meet potential customer needs.
- Customer satisfaction is highly valued, with a systematic approach to measuring satisfaction that is integrated into the company's operational processes and control.

### • Marketing

- Having a highly effective customer service system that can resolve customer issues in the shortest possible time.
- Developing and integrating diverse marketing communication media to conduct brand marketing and promotion.

**The only valve manufacturer in Taiwan approved by TIPS (Taiwan Intellectual Property Management System) in Taiwan**



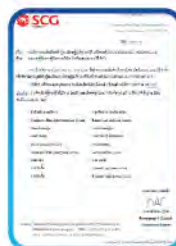
### Patents, Trademarks, Trade secrets Copyrights

Developed by the JDV R&D/IP team, patent law firms, etc., to establish a patent map layout and manage the patent search database. Effectively grasp the core technology to ensure smooth operations for avoiding design conflicts, infringement protection, and resource utilization.

### Letters of Appreciation



**SABIC**



**SCG Thailand**



**BASF**



**HITACHI  
Singapore**





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