

Series SB7 Ball Valve

Three-Piece CleanFLOW[™] High Purity Ball Valve Sizes 1/2" ~ 6"

CleanFLOW[™] SB7 ball valves are engineered to be a true process piping component to specifically meet the demanding processes found in the pharmaceutical and food & beverage industries. The "Tube-ID" port opening is dimensionally identical to the adjacent tubing to comply with ASME-BPE guidelines. The standard TFM1600[™] seat material complies with 21 CFR 177.1550.

SERIES SB7 DESIGN FEATURES

- ✓ ASME-BPE compliant
- ✓ Silicone Free
- ✓ Cavity filled TFM1600™ seat option available
- ✓ Complete 316L Stainless Steel cast construction
- ✓ Drainable design with "Tube-ID" dimensions
- ✓ Weld bosses for easy purge porting on ends
- √ ISO 5211 mounting pad for easy actuation
- Encapsulated body seals to facilitate welding without disassembly
- End connections include Tri-Clamp and Extended Tube O.D.
- Controlled delta ferrite chemistry
- ✓ Chevron (V-Ring) Stem Seals assures low friction and leak tight performance (Sizes 2-1/2" ~ 4" only)
- ✓ Standard interior finish is 20Ra or better
- ETO ends are designed for Orbital Welding
- \checkmark Exclusive "Fine Adjust" handle for precise positioning on sizes 1/2" ~ 2 "
- Locking device is standard on 3" and 4" valves

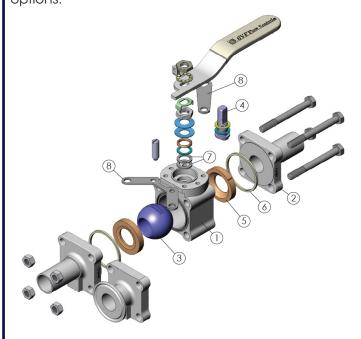
MATERIALS OF CONSTRUCTION

| ITEM # | DESCRIPTION | MATERIALS SPECIFICATIONS (Additional options available) | | | | | |
|-----------|------------------------------|---|--|--|--|--|--|
| 1 | Body | 316L Stainless Steel (ASTM A351 CF3MN) | | | | | |
| 2 | End Connector | 316L Stainless Steel (ASTM A351 CF3MN) | | | | | |
| 3 | Ball | 316L Stainless Steel (ASTM A351 CF3MN) | | | | | |
| 4 | Stem | 316L Stainless Steel (ASTM A351 CF3MN) | | | | | |
| 5 | Seat | TFM1600™ | | | | | |
| 6 | Body Seal | PTFE/TFM1600™ | | | | | |
| 7 | Stem Seal | TFM1600™ | | | | | |
| 8 | Locking Device (Optional) | 304 Stainless Steel | | | | | |

CleanFLOW



The Series SB7 Ball Valve is available with additional options.



There are no elastomers used for any of the components on the SB7 valves. Only PTFE and TFM are used for seats and seals.





What do you need today?™



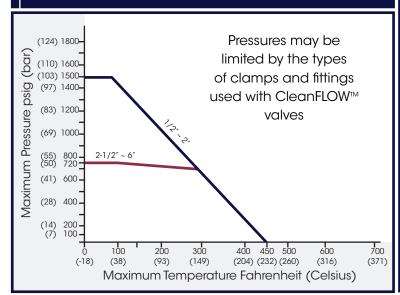
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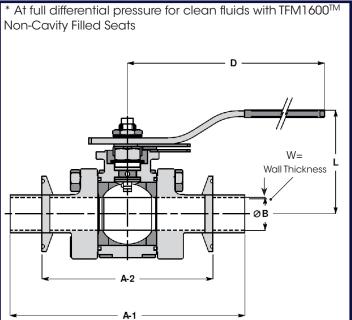
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DIMENSIONS, WEIGHT, CV, TORQUE

| Size | A | -1 | A. | -2 | E | 3 | [|) | I | | V | V | Wei | ght | С٧ | Torq | ue* |
|--------|-------|-----|-------|-----|------|-----|-----|-----|-------|-----|-------|-----|-----|------|------|--------|-----|
| | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | lbs | kg | | in-lbf | Nm |
| 1/2″ | 5.50 | 140 | 3.50 | 89 | 0.37 | 9 | 5 | 114 | 2.22 | 56 | 0.065 | 1.7 | 2 | 0.9 | 8 | 60 | 7 |
| 3/4" | 6.00 | 152 | 4.00 | 102 | 0.62 | 16 | 5 | 114 | 2.28 | 58 | 0.065 | 1.7 | 2 | 0.9 | 29 | 60 | 7 |
| 1" | 6.50 | 165 | 4.50 | 114 | 0.87 | 22 | 6 | 146 | 2.56 | 65 | 0.065 | 1.7 | 4 | 1.8 | 66 | 100 | 11 |
| 1-1/2″ | 7.50 | 191 | 5.50 | 140 | 1.37 | 35 | 7 | 178 | 3.09 | 78 | 0.065 | 1.7 | 8 | 3.6 | 192 | 200 | 23 |
| 2″ | 8.00 | 203 | 6.25 | 159 | 1.87 | 47 | 7 | 178 | 3.45 | 88 | 0.065 | 1.7 | 13 | 5.9 | 434 | 250 | 28 |
| 2-1/2" | 9.50 | 241 | 6.75 | 171 | 2.37 | 60 | 10 | 254 | 5.35 | 136 | 0.065 | 1.7 | 23 | 10.4 | 723 | 450 | 51 |
| 3″ | 10.50 | 267 | 7.00 | 178 | 2.87 | 73 | 14 | 348 | 6.55 | 166 | 0.065 | 1.7 | 31 | 14.1 | 1124 | 1300 | 147 |
| 4" | 12.50 | 318 | 8.50 | 216 | 3.83 | 97 | 22 | 559 | 7.14 | 181 | 0.083 | 2.1 | 46 | 20.9 | 2100 | 1400 | 158 |
| 6" | 16.00 | 406 | 17.00 | 432 | 5.78 | 147 | 26 | 660 | 12.00 | 305 | 0.109 | 2.8 | 196 | 88.5 | 4700 | 4160 | 470 |

SB7 - PRESSURE/TEMPERATURE CHART





HOW TO ORDER SERIES SB7 BALL VALVES

Please refer to our website for our comprehensive How to Order Guide for Series SB7 Ball Valves.



Series SB7 Ball Valve

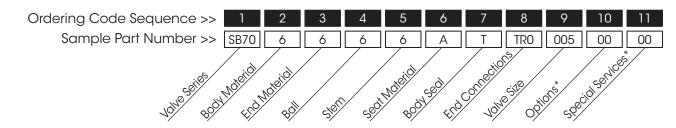
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—Ordering Code Sequence (Columns 1 thru 11)

| 1 | 2 | 3 | 4 | 5 | 6 |
|--------|----------------------|----------------------|----------------------|----------------------|---------------|
| SERIES | BODY | ENDS | BALL | STEM | SEAT MATERIAL |
| SB70 | 6 = | 6 = | 6 = | 6 = | A = TFM1600™ |
| | 316L Stainless Steel | 316L Stainless Steel | 316L Stainless Steel | 316L Stainless Steel | |
| | ASTM A351 CF3MN | ASTM A351 CF3MN | ASTM A351 CF3M | ASTM A351 CF3M | Q = TFM1600™ |
| | | | | | Cavity Filled |
| | | | | | |

| 7 | 8 | 9 | 10 | |
|--------------------|------------------------|--------------|----------------------------|------------------------|
| BODY SEAL | END CONNECTIONS | VALVE SIZE | OPTIONS* | SPECIAL SERVICES* |
| T = PTFE | TR0 = Tri-Clamp Ends | 005 = 1/2" | 00 = Standard Lever Handle | 00 = None |
| | | | | XC = Oxygen Cleaned |
| $A = TFM1600^{TM}$ | ETO = | 007 = 3/4" | LK = Locking Device | EP = Electropolished |
| (6" Size Only) | Extended Tube-OD Ends | | | |
| | | 010 = 1" | AA = Oval Handle & | SB = 10Ra ID Finish |
| | JAH = Extended Tube-OD | | Locking Device | AB = Electropolished & |
| | End X Tri-Clamp End | 015 = 1-1/2" | AC = Locking Device & | 10Ra ID Finish |
| | (Extended Tube-OD End | | Anti-Static Device | AD = Oxygen Cleaned & |
| | is under the handle on | 020 = 2" | AG = ISO Stem Extension | Electropolished |
| | manual valves) | | & Locking Device | JB = Electropolished, |
| | | 025 = 2-1/2" | JA = Oval Handle, | Oxygen Cleaned & |
| | | | ISO Stem Extension | 10Ra ID Finish |
| | | 030 = 3" | & Locking Device | |
| | | | JB = Oval Handle, | |
| | | 040 = 4" | ISO Stem Extension | |
| | | | & Anti-Static Device | |
| | | 060 = 6" | JE = Locking Device, | |
| | | | ISO Stem Extension | |
| | | | & Anti-Static Device | |
| | | | | |
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Order Example: (SB706666ATTR00050000) The Part Number will contain 20 digits.



- * Not all Options or Special Services available on all ball valves. Consult SVF for additional information.
- * Oval Handles are only upto Size 2".