# SVF Flow Controls

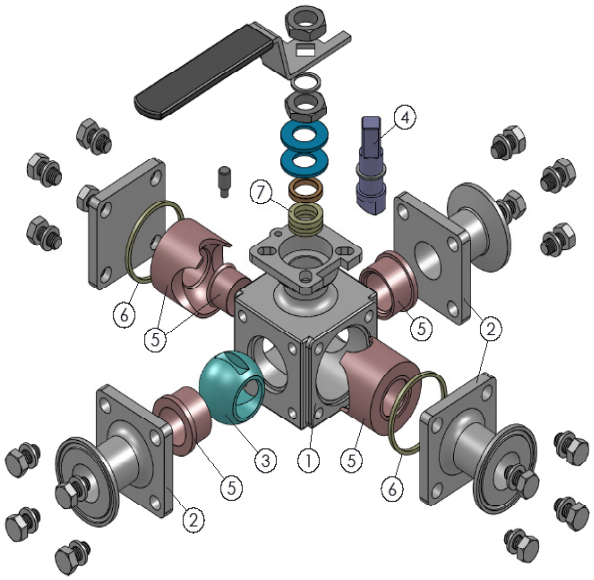
## Series SMC9 Ball Valves

### High Purity Multi-Ported Ball Valve
### Sizes 1/2" - 4"

CleanFLOW™ SMC9 high purity ball valve is available in a multi-port design to satisfy a wide range of flow control applications. The SMC9 ball valve features a selection of flow patterns with "L" or "T" ball configurations as well as an ISO 5211 mounting pad for direct valve actuation.

## SERIES SMC9 DESIGN FEATURES

- ✓ ASME-BPE compliant
- ✓ Drainable with "Tube-ID" flow path
- ✓ Cavity filled TFM1600™ seat standard
- ✓ Complete 316 Stainless Steel cast construction
- ✓ ISO 5211 mounting pad for direct mounting
- ✓ End connections include Tri-Clamp and Extended Tube O.D.
- ✓ Standard interior finish is 20Ra or better
- ✓ ETO ends are designed for Orbital Welding
- ✓ Four seat design provides isolation in all positions
- ✓ Standard locking device




## MATERIALS OF CONSTRUCTION

| ITEM # | DESCRIP-TION | MATERIALS SPECIFICATIONS |
|---|---|---|
| 1 | Body | 316L Stainless Steel (ASTM A351 CF8M) |
| 2 | End Con-nector | ETO 316L Stainless Steel (ASTM A351 CF3M)<br>TR0 316 Stainless Steel (ASTM A351 CF8M) |
| 3 | Ball | 316L Stainless Steel (ASTM A351 CF3M) |
| 4 | Stem | 316 Stainless Steel (AISI 316) |
| 5 | Seat | TFM1600™ |
| 6 | Body Seal | PTFE |
| 7 | Stem Seal | PTFE |

There are no elastomers used for the seats and seals on the SMC9 valves. Only TFM and PTFE are used for the seats and seals.

*What do you need today?™*

HIGH PURITY VALVES CleanFLOW™

PRO-SPEC PROCESS SPECIFIC

UALITY FLOWS THROUGH US

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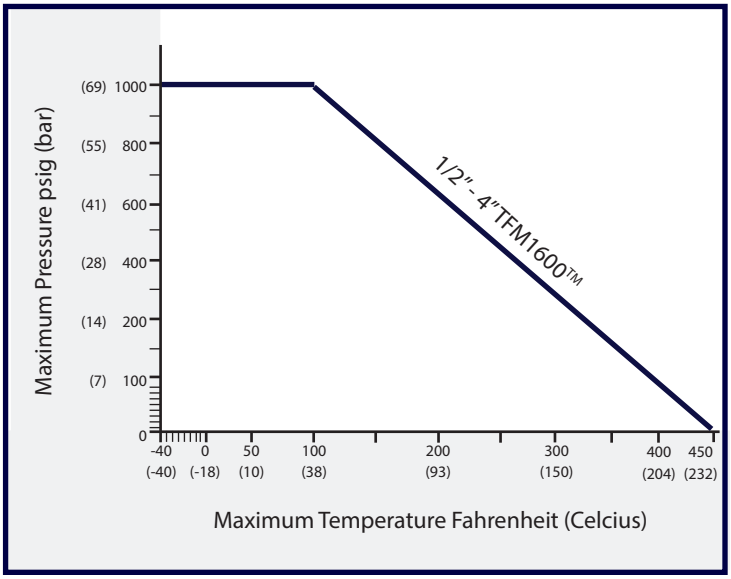
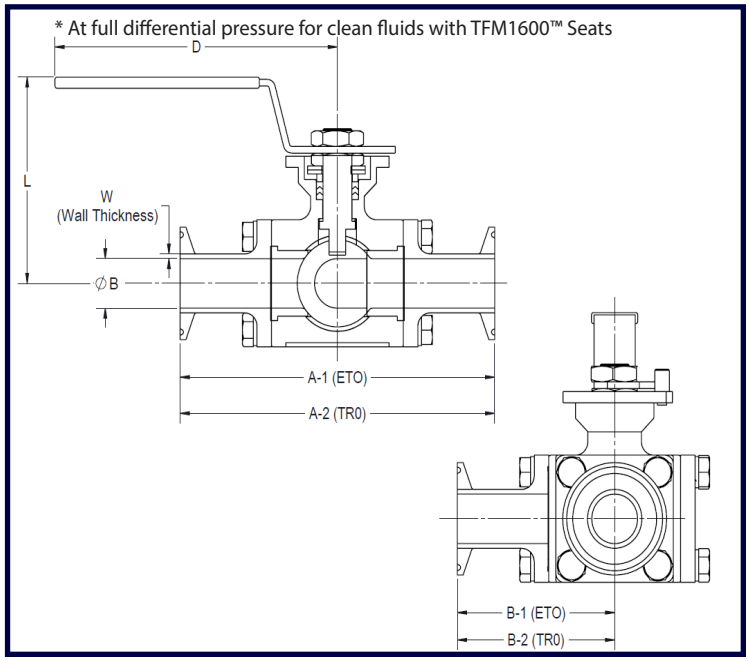
## DIMENSIONS, WEIGHT, CV, TORQUE

| Size | A1 | | A2 | | B-1 | | B-2 | | ØB | | D | | L | | W | | Weight | | Cv | Torque* | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | lbs | kg | | in-lbf | Nm |
| 1/2" | 4.65 | 118 | 4.65 | 118 | 2.33 | 59 | 2.33 | 59 | 0.37 | 9 | 4.76 | 121 | 2.93 | 74 | 0.065 | 1.7 | 2 | 1.1 | 9 | 79 | 9 |
| 3/4" | 5.00 | 127 | 5.00 | 127 | 2.50 | 63 | 2.50 | 63 | 0.62 | 15 | 4.76 | 121 | 3.21 | 81 | 0.065 | 1.7 | 3 | 1.3 | 26 | 85 | 10 |
| 1" | 6.00 | 152 | 6.00 | 152 | 3.00 | 76 | 3.00 | 76 | 0.87 | 22 | 5.39 | 137 | 3.46 | 88 | 0.065 | 1.7 | 5 | 2.5 | 61 | 110 | 12 |
| 1-1/2" | 6.89 | 175 | 6.89 | 175 | 3.45 | 87 | 3.45 | 87 | 1.38 | 35 | 7.17 | 182 | 4.07 | 103 | 0.065 | 1.7 | 10 | 4.7 | 193 | 290 | 33 |
| 2" | 7.48 | 190 | 7.48 | 190 | 3.74 | 95 | 3.74 | 95 | 1.87 | 47 | 7.17 | 182 | 4.42 | 112 | 0.065 | 1.7 | 15 | 6.8 | 432 | 425 | 48 |
| 2-1/2" | 8.98 | 228 | 8.98 | 228 | 4.49 | 114 | 4.49 | 114 | 2.37 | 60 | 14.57 | 370 | 4.42 | 112 | 0.065 | 1.7 | 27 | 12.1 | 728 | 1085 | 123 |
| 3" | 10.26 | 260 | 10.26 | 260 | 5.13 | 130 | 5.13 | 130 | 2.87 | 73 | 15.75 | 400 | 5.08 | 129 | 0.065 | 1.7 | 36 | 16.1 | 1125 | 1597 | 180 |
| 4" | 11.50 | 290 | 11.50 | 290 | 5.75 | 145 | 5.75 | 145 | 3.83 | 97 | 15.75 | 400 | 5.28 | 134 | 0.083 | 2.1 | 54 | 24.4 | 1986 | 1780 | 201 |

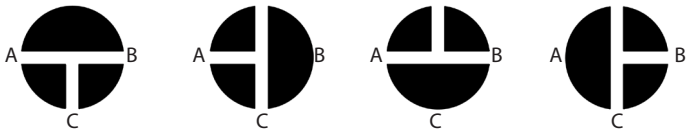
## PRESSURE AND TEMPERATURE RATING




* At full differential pressure for clean fluids with TFM1600™ Seats

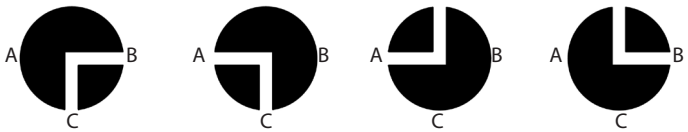



T-PORT FLOW PATHS:




PATH "A" PATH "B" PATH "C" PATH "D"

L-PORT FLOW PATHS:




PATH "E" PATH "F" PATH "G" PATH "H"

## HOW TO ORDER SVF SERIES SMC9 MULTI-PORTED BALL VALVES

Please refer to the next page for our comprehensive
How to Order Guide for Series SMC9 Ball Valves

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Ordering Code Sequence (Columns 1 thru 11)

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| SERIES | BODY | ENDS | BALL | STEM | SEAT MATERIAL |
| SMC9 | 6 =<br>316L Stainless Steel<br>ASTM A351 CF3M | 6 =<br>316L Stainless Steel<br>ASTM A351 CF3M | 6 =<br>316L Stainless Steel<br>ASTM A351 CF3M | 6 =<br>316 Stainless Steel<br>AISI 316 | Q= TFM1600™<br>(Cavity-Filled) |

| 7<br>SEAL MATERIAL | 8<br>END CONNECTIONS | 9<br>VALVE SIZE | 10<br>OPTIONS | 11<br>SPECIAL SERVICES |
|---|---|---|---|---|
| T = PTFE | TR0 = Tri-Clamp Ends<br>ETO = Extended Tube-OD Ends | 005 = 1/2″<br>007 = 3/4″<br>010 = 1″<br>015 = 1-1/2″<br>020 = 2″<br>025 = 2-1/2″<br>030 = 3″<br>040 = 4″ | T1 = T - PORT BALL<br>L1 = L - PORT BALL | 00 = None<br>EP = Electropolished<br>SA = 15Ra ID Finish<br>SB = 10Ra ID Finish<br>AA = Electropolished & 15Ra ID Finish<br>AB = Electropolished & 10Ra ID Finish |

Order Example: (SMC96666QTTR0010T100) The Part Number will contain 20 digits.

| Ordering Code Sequence >> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Part Number >> | SMC9 | 6 | 6 | 6 | 6 | Q | T | TR0 | 010 | T1 | 00 |
| | Valve Series | Body Material | End Material | Ball | Stem | Seat Material | Seal Material | End Connections | Valve Size | Options | Special Services |

NOTE:
All Manual Valves are supplied with lockable lever handles.

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