

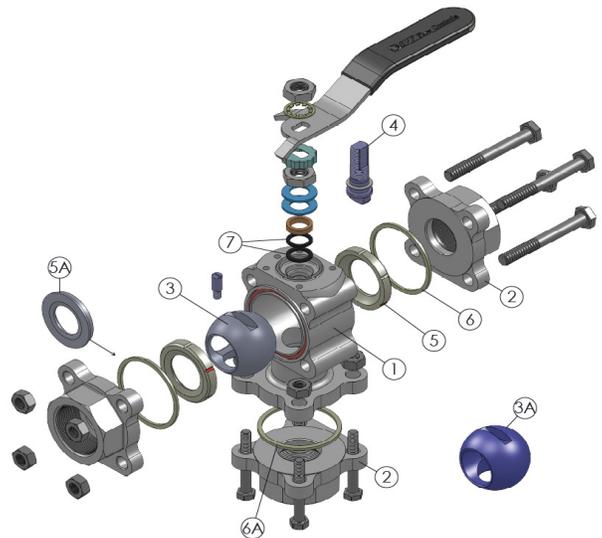
The SVF Series D8/T7, three piece diverter valve represents the next generation in design and performance. This process quality, high-performance ball valve has been engineered and manufactured to meet all of the industry standards for quality and performance.

SERIES D8/T7 DESIGN FEATURES

- ✓ Available in a variety of flow patterns
- ✓ Self-relieving seats that reduce operating torque and improve seat life
- ✓ Encapsulated body seals to facilitate welding without disassembly (D8 Only)
- ✓ Live-loaded stem seal ensures seal-tight pressure containment even under thermal cycling
- ✓ Three-piece "swing out" design offers easy access for in-line maintenance
- ✓ ISO 5211 mounting pad for easy actuation
- ✓ Standard seat material on D8 Series is TFM1600™
- ✓ Blowout proof stem adds safety & reliability
- ✓ Full range of options to suit specific requirements



The Series D8/T7 Ball Valve is available with additional options. Contact SVF for more information.



MATERIALS OF CONSTRUCTION

| ITEM | DESCRIPTION | MATERIALS SPECIFICATIONS |
|---------|-------------------------------------|---|
| 1 | Body | 316 Stainless Steel (ASTM A351 - CF8M) Carbon Steel (ASTM A216 - WCB) |
| 2 | End Connector | 316L Stainless Steel (ASTM A351 - CF3M) Carbon Steel (ASTM A216 - WCB) |
| 3 3A | Ball (S1 = 90°) Ball (S2 = 180°) | 316 Stainless Steel (ASTM A351 - CF8M) |
| 4 | Stem | 316 Stainless Steel (ASTM A276) Stainless Steel 17-4pH (ASTM A456 - 630) |
| 5 | Seat (Series D8) | TFM1600™, Delrin®, UHMWPE, PEEK, SupraLon® |
| 5A | Seat (Series T7) | TFM1600™, SupraLon® (1-piece Seat/ Seal) No other seat material available for Series T7 |
| 6 | Body Seal (D8) | PTFE, Buna "N", GRAFOIL®, UHMWPE, Viton®, EPDM, SupraLon® |
| 6A | Body Seal (T7) | PTFE, GRAFOIL®, SupraLon® |

SPECIFICATION STANDARDS OF COMPLIANCE

SVF Series D8/T7 Ball Valves are available in designs that meet the following Industry Standards:

- ANSI
- ASME
- API
- NACE
- ASTM
- DIN
- ISO
- MSS

Contact SVF for specific applications

What do you need today?™

HIGH PURITY VALVES
CleanFLOW

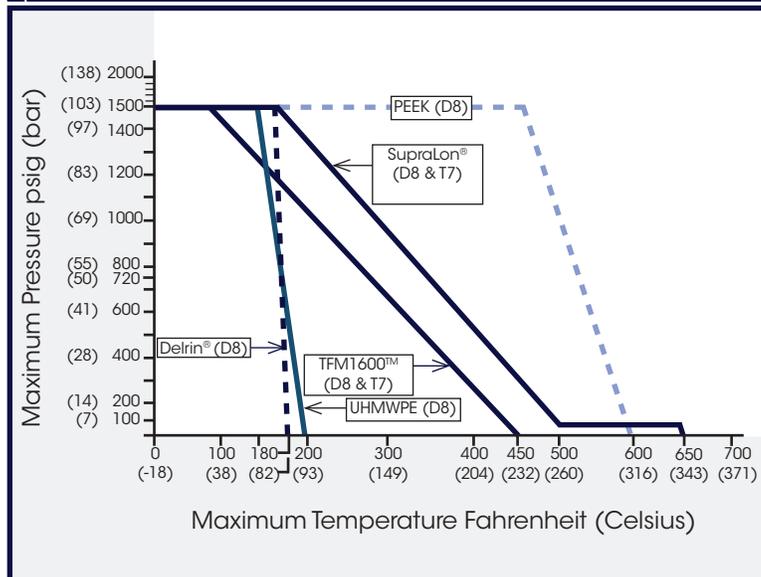
PRO-SPEC
PROCESS SPECIFIC

QUALITY FLOWS THROUGH US

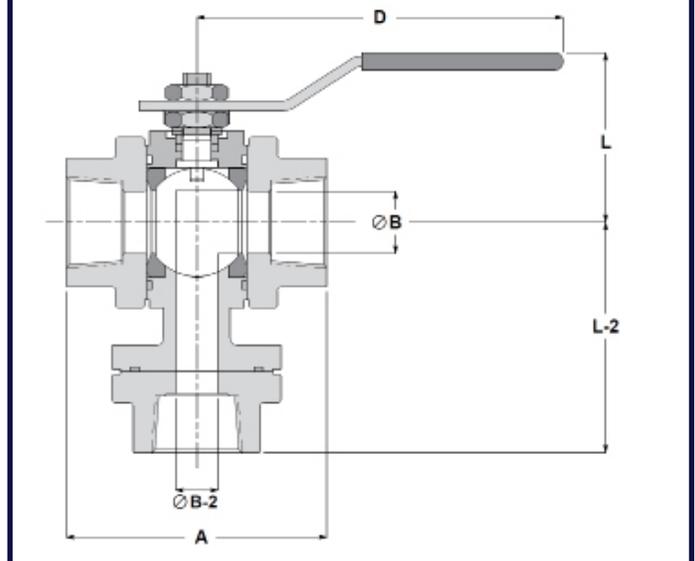
DIMENSIONS, WEIGHT, CV, TORQUE

| Size | A | | B | | B-2 | | D | | L | | L-2 | | Weight | | Cv | Torque ** | |
|--------|------|-----|------|----|------|----|-----|-----|-----|----|------|-----|--------|-----|----|-----------|----|
| | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | lbs | kg | | in-lbf | Nm |
| 1/4"* | 2.60 | 66 | 0.41 | 10 | 0.38 | 10 | 5 | 127 | 1.8 | 46 | 2.75 | 70 | 2 | 0.9 | 3 | 45 | 5 |
| 3/8"* | 2.60 | 66 | 0.41 | 10 | 0.38 | 10 | 5 | 127 | 1.8 | 46 | 2.75 | 70 | 2 | 0.9 | 3 | 45 | 5 |
| 1/2" | 2.60 | 66 | 0.41 | 10 | 0.38 | 10 | 5 | 127 | 1.8 | 46 | 2.75 | 70 | 2 | 0.9 | 5 | 45 | 5 |
| 3/4" | 2.81 | 71 | 0.56 | 14 | 0.47 | 12 | 5 | 127 | 1.9 | 48 | 2.75 | 70 | 2 | 0.9 | 5 | 45 | 5 |
| 1" | 3.70 | 94 | 0.81 | 21 | 0.63 | 16 | 6 | 152 | 2.4 | 61 | 3.45 | 88 | 4 | 1.8 | 10 | 100 | 11 |
| 1-1/2" | 4.57 | 116 | 1.25 | 32 | 1.05 | 27 | 7 | 178 | 3.2 | 81 | 4.27 | 109 | 7 | 3.2 | 27 | 280 | 32 |
| 2" | 5.04 | 128 | 1.50 | 38 | 1.38 | 35 | 7 | 178 | 3.3 | 84 | 4.50 | 114 | 11 | 5.0 | 36 | 360 | 41 |

D8/T7 - PRESSURE/TEMPERATURE CHART



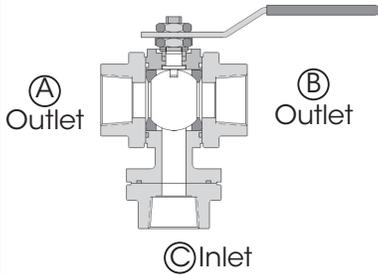
* 1/4" and 3/8" end connections are Full Port
 ** At full differential pressure for clean fluids with TFM1600™ Seats



HOW TO ORDER SERIES D8/T7 BALL VALVES

Please refer to the last page for our comprehensive How to Order Guide for Series D8/T7 Ball Valves.

D8 DIVERTER VALVE FLOW PATHS

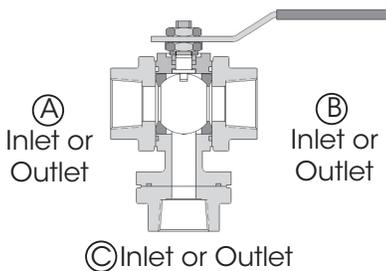


The D8 Diverter Valve consists of a two-piece seat and body seal with the inlet at Port C.

Flow Paths are:

- Inlet Port (C) to Outlet Port (A)
- Inlet Port (C) to Outlet Port (B)

T7 THREE-WAY VALVE FLOW PATHS



The T7 Three-Way Valve consists of a one-piece seat and body seal, allowing the inlet to be at any one of the ports A, B, or C.

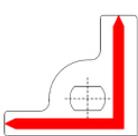
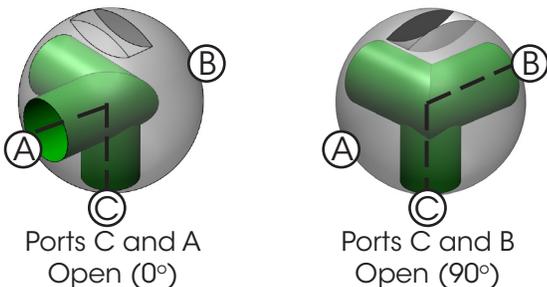
Flow Paths are:

- Inlet Port (C) to Outlet Port (A)
- Inlet Port (C) to Outlet Port (B)
- Inlet Port (A) to Outlet Port (C)
- Inlet Port (B) to Outlet Port (C)

OPERATION

The D8 Diverter Valve or T7 Three-Way Valve can be supplied with either 90° operation (S1 ball) or 180° operation (S2 ball).

S1 (90° Operation)

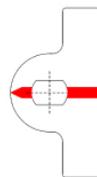
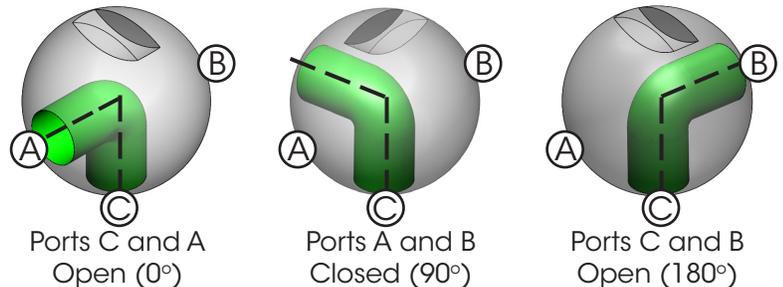


For S1 (90° Operation), the Stop Plate is an integral part of the handle.

NOTE: It is normal that media will flow from Port "C" to both Ports "A" & "B" while the ball is being rotated from one flow path to the other.

Contact SVF for additional flow paths

S2 (180° Operation)



For S2 (180° Operation), the Stop Plate is a separate part (Refer to #20 on the Materials of Construction).

NOTE: Media flow will not occur when the handle is in-line (parallel) with the body of the valve. This is the CLOSED/SHUT-OFF position (Refer to D8/T7 IOM).

Ordering Code Sequence (Columns 1 thru 11)

| 1 | 2 | 3 | 4 | 5 | 6 |
|--------|--|---|--|---|--|
| SERIES | BODY | ENDS | BALL | STEM | SEAT MATERIAL |
| D800 = | 4 = Carbon Steel ASTM A216 WCB 6 = 316 Stainless Steel ASTM A351 CF8M | 4 = Carbon Steel ASTM A216 WCB 6 = 316L Stainless Steel ASTM A351 CF3M | 6 = 316 Stainless Steel ASTM A351 CF8M 6 = 316 Stainless Steel ASTM A351 CF8M | 6 = 316 Stainless Steel ASTM A276-316 M = Stainless Steel 17-4 pH ASTM A564 630 | A = TFM1600™ D = Delrin** U = UHMWPE K = PEEK (Requires 17-4 Stem - Code M) S = SupraLon |

| 7 | 8 | 9 | 10 | 11 |
|--|---|--|---|---|
| BODY SEAL | END CONNECTIONS | VALVE SIZE | OPTIONS* | SPECIAL SERVICES* |
| T = PTFE B = Buna "N" G = GRAFOIL U = UHMWPE V = Viton E = EPDM S = SupraLon | SE0 = Screwed Ends (FNPT) SW0 = Socket Weld Ends BWO = Butt Weld Ends Schedule 40 wall (Standard) Butt Weld Ends: BWA = Schedule 5 BWB = Schedule 10 | 002 = 1/4" (Full Port) 003 = 3/8" (Full Port) 005 = 1/2" 007 = 3/4" 010 = 1" 015 = 1-1/2" 020 = 2" | 00 = None S1 = 3-Way Ball, 90°, "LL" Port S2 = 3-Way Ball, 180°, "L" Port AU = S1 Ball & Locking Device AV = S1 Ball & Oval Handle AW = S1 Ball & ISO Cast Stem Extension AZ = S2 Ball & Locking Device A3 = S1 Ball & Oval Handle A4 = S2 Ball & ISO Cast Stem Extension JZ = S1 Ball, Locking Device & ISO Cast Stem Extension J8 = S1 Ball, Locking Device & Oval Handle KA = S2 Ball, Locking Device & ISO Cast Stem Extension KF = S2 Ball, Locking Device & Oval Handle | 00 = None XC = Oxygen Cleaned SF = Degreased (Silicone Free) HC = High Cycle Stem Kit |

Order Example: (D8006666ATSE0010S100) The Part Number will contain 20 digits.

Ordering Code Sequence >>

Sample Part Number >>

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|--------------|---------------|--------------|------|------|---------------|---------------|-----------------|------------|----------|-------------------|
| D800 | 6 | 6 | 6 | 6 | A | T | SE0 | 010 | S1 | 00 |
| Valve Series | Body Material | End Material | Ball | Stem | Seat Material | Seat Material | End Connections | Valve Size | Options* | Special Services* |

* Not all Options or Special Services available on all ball valves. Consult SVF for additional information.

** Delrin seats cannot be used for Oxygen service.



Ordering Code Sequence (Columns 1 thru 11)

| 1 | 2 | 3 | 4 | 5 | 6 |
|--------|--|---|---|--|---|
| SERIES | BODY | ENDS | BALL | STEM | SEAT MATERIAL |
| T700 = | 4 = Carbon Steel ASTM A216 WCB 6 = 316 Stainless Steel ASTM A351 CF8M | 4 = Carbon Steel ASTM A216 WCB 6 = 316L Stainless Steel ASTM A351 CF3M | 6 = 316 Stainless Steel ASTM A351 CF8M | 6 = 316 Stainless Steel ASTM A276-316 | T = PTFE ** N = NRG ** A = TFM1600™ S = SupraLon |

| 7 | 8 | 9 | 10 | 11 |
|---|---|--|---|---|
| BODY SEAL | END CONNECTIONS | VALVE SIZE | OPTIONS* | SPECIAL SERVICES* |
| T = PTFE ** N = NRG ** A = TFM1600™ S = SupraLon | SE0 = Screwed Ends (FNPT) SW0 = Socket Weld Ends BW0 = Butt Weld Ends Schedule 40 wall (Standard) Butt Weld Ends: BWA = Schedule 5 BWB = Schedule 10 | 002 = 1/4" (Full Port) 003 = 3/8" (Full Port) 005 = 1/2" 007 = 3/4" 010 = 1" 015 = 1-1/2" 020 = 2" | 00 = None S1 = 3-Way Ball, 90°, "LL" Port S2 = 3-Way Ball, 180°, "L" Port AU = S1 Ball & Locking Device AV = S1 Ball & Oval Handle AW = S1 Ball & ISO Cast Stem Extension AZ = S2 Ball & Locking Device A3 = S1 Ball & Oval Handle A4 = S2 Ball & ISO Cast Stem Extension JZ = S1 Ball, Locking Device & ISO Cast Stem Extension J8 = S1 Ball, Locking Device & Oval Handle J9 = S2 Ball, Locking Device & ISO Cast Stem Extension KE = S2 Ball, Locking Device & Oval Handle | 00 = None XC = Oxygen Cleaned SF = Degreased (Silicone Free) HC = High Cycle Stem Kit |

Order Example: (T7006666TTSE0010S100) The Part Number will contain 20 digits.

Ordering Code Sequence >>

Sample Part Number >>

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | | | |
|-----------------------|--------------|---------------|--------------|------|------|---------------|---------------|-----------------|------------|----------|-------------------|----|---|---|---|
| Sample Part Number >> | T | 7 | 0 | 0 | 6 | 6 | 6 | 6 | 6 | T | T | SE | 0 | 1 | 0 |
| | Valve Series | Body Material | End Material | Ball | Stem | Seat Material | Seal Material | End Connections | Valve Size | Options* | Special Services* | | | | |

* Not all Options or Special Services available on all ball valves. Consult SVF for additional information.

** PTFE & NRG "1 Piece Seat & Seal" are the only materials available for "T7" Valve Series.