

Features

- Full port 3-way, L or T flow pattern
- All materials comply with FDA and USDA requirements
- Full port design for unrestricted flow
- Highly polished internals and end caps with 8-12 Ra finish
- ASTM 316 stainless steel investment cast body and end caps
- ASTM 304 stainless steel fasteners
- Dyneon® TF-1641 (PTFE) FDA approved ball seats and cavity fillers
- Triple PTFE/Viton® high cycle live loaded stem seal packing
- Tri-Clamp ends for hygienic connections
- Three piece, swing out design for easy cleaning and maintenance
- Actuator-ready ISO 5211 direct mounting pad
- 100% tested with full traceability of all components
- Valves tested per API598



Description

Investment cast 3-piece full port stainless steel body/ball/end caps enable unrestricted flow and minimum pressure loss. Self-adjusting live loaded stem seal packing helps compensate for wear, pressure or temperature fluctuations, extending the cycle life of the valve. Blow-out proof stainless steel stem. Valve body held together with bolts for easy maintenance. Cavity fillers avoid media entrapment and quick clamp end connections allow for easy cleaning and sanitary operation

Note: Tri-Clamp size is determined by valve size, not the OD of the end cap.

Applications

Sanitary 3-way ball valves are typically used for food, beverage, pharmaceutical, personal care, and pet care applications where sanitary construction is required, as well as for utility, process, and corrosive environment applications where quick clamp connections are beneficial. Often used as a diverter, selector or mixing valve with a variety of flow path options through the valve. Can be manually operated or mounted to air or electric actuators.

Operation

Turning the handle one quarter-turn (90°) rotates the ball from position 1 to position 2 for the desired L or T port flow pattern. Set-up in any one of four different flow configurations (T1-T4). Simply remove the handle and the valve is actuator ready with standard ISO 5211 direct mounting pad and square output shaft.

Construction

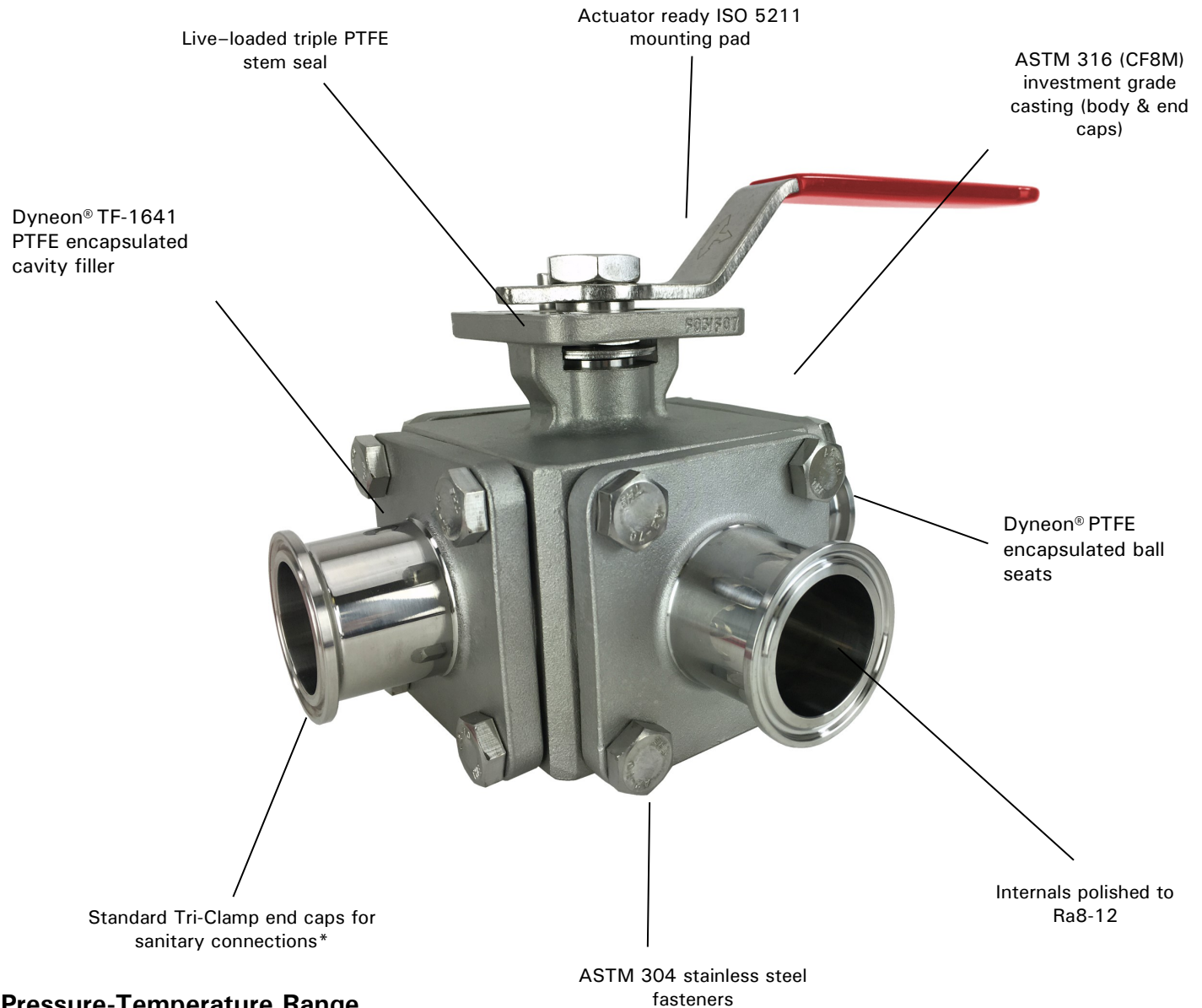
Valve Body	ASTM 316 Stainless Steel
Ball/Stem/End Caps	ASTM 316 Stainless Steel
Ball Seats/Cavity Fillers	Dyneon® PTFE
Stem Seals	PTFE/Viton®
Fasteners	ASTM 304 Stainless Steel
Hand Lever	304SS w/ vinyl grip

Standards

- Construction:
 - ANSI B16/B2/B18
 - FDA 21 CFR 177.1550
 - ANSI B16.34
- Pressure Testing:
 - API 598
- Marking
 - MSS-SP-25

Options

- Air or Electric Actuators



Pressure-Temperature Range

Shell Pressure Rating (Max)*: 1000 PSI @ 120°F (1/2" to 2"),
600 PSI (2 1/2" to 3")

Temperature Rating: -4 to 356° F (-20 to 180°C)

*See P/T Chart

* Refer to specifications table for Tri-Clamp size

* Note: Tri-Clamp size is **NOT** determined by the OD of the end cap

Specifications (English units)

Stock Number	Pipe Size (inch)	Tri-Clamp Size (inch)	Cv Flow Factor –Branch	Shell Pressure Max* (PSI)	Torque (inch lbs)	ISO5211 Mount	Weight (lbs)
3-WAY SS VALVE T-PORT							
572100C	1/2	3/4	4.3	1000	79.7	F03/F05	3.5
572101C	3/4	3/4	10.4	1000	88.5	F03/F05	4.2
572102A	1	1-1/2	17.3	1000	106.2	F04/F05	6.4
572103A	1-1/2	1-1/2	43.3	1000	292.1	F05/F07	12.8
572104A	2	2	77.9	1000	681.5	F05/F07	19.8
572105A	2-1/2	2-1/2	115.9	600	1283.4	F07/F10	25.4
572106A	3	3	210.2	600	1770.1	F10/F12	43.2
3-WAY SS VALVE L-PORT							
573100C	1/2	3/4	4.3	1000	79.7	F03/F05	3.5
573101C	3/4	3/4	10.4	1000	88.5	F03/F05	4.2
573102A	1	1-1/2	17.3	1000	106.2	F04/F05	6.4
573103A	1-1/2	1-1/2	43.3	1000	292.1	F05/F07	12.8
573104A	2	2	77.9	1000	681.5	F05/F07	19.8
573105A	2-1/2	2-1/2	115.9	600	1283.4	F07/F10	25.4
573106A	3	3	210.2	600	1770.1	F10/F12	43.2

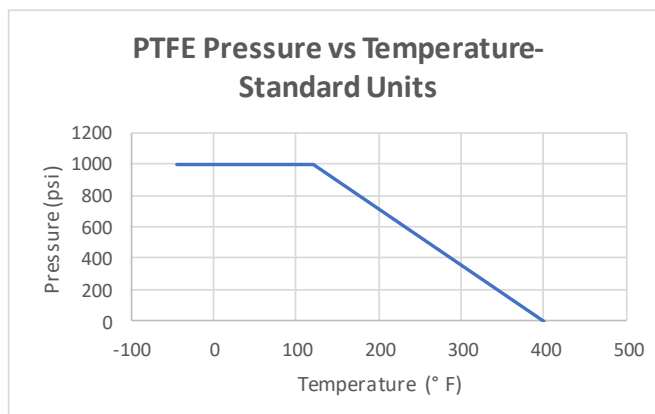
Cv = The GPM of water at 60° F that will pass through the valve with 1 PSI pressure drop

* Pressure @ -4° to 356° F (reduced pressure at higher temperatures—see P/T chart)

• Torque at 1000 PSI and 72°F

Pressure/Temp. Chart - 1000 PSI

Standard Units			
Temp °F	-4	120	356
Pressure	1000	1000	0



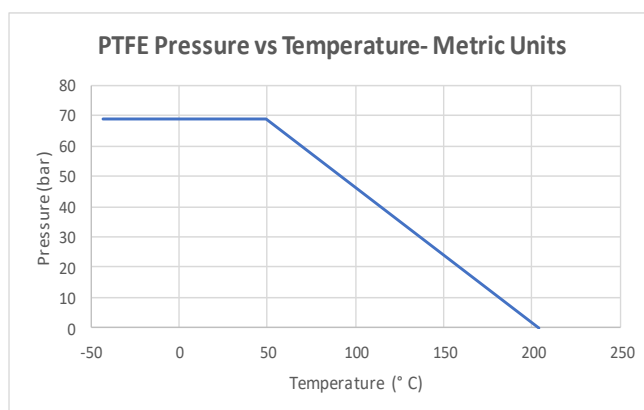
Specifications (Metric units)

Stock Number	Pipe Size (mm)	Tri-Clamp Size (mm)	Kv Flow Factor– Branch	Shell Pressure Max* (Bar)	Torque (Nm)	ISO5211 Mount	Weight (Kg)
3-WAY SS VALVE T-PORT							
572100C	12.7	3/4	5.0	69	9.0	F03/F05	1.8
572101C	19.1	3/4	12.0	69	10.0	F03/F05	2.3
572102A	25.4	1-1/2	20.0	69	12.0	F04/F05	3.2
572103A	38.1	1-1/2	50.0	69	33.0	F05/F07	7.7
572104A	50.8	2	90.0	69	77.0	F05/F07	12.2
572105A	63.5	2-1/2	134.0	41	145.0	F07/F10	31.8
572106A	76.2	3	243.0	41	200.0	F10/F12	34.0
3-WAY SS VALVE L-PORT							
573100C	12.7	3/4	5.0	69	9.0	F03/F05	1.8
573101C	19.1	3/4	12.0	69	10.0	F03/F05	2.3
573102A	25.4	1-1/2	20.0	69	12.0	F04/F05	3.2
573103A	38.1	1-1/2	50.0	69	33.0	F05/F07	7.7
573104A	50.8	2	90.0	69	77.0	F05/F07	12.2
573105A	63.5	2-1/2	134.0	41	145.0	F07/F10	31.8
573106A	76.2	3	243.0	41	200.0	F10/F12	34.0

* Pressure range @ -20° to 180° C (reduced pressure for higher temperatures—see P/T chart)

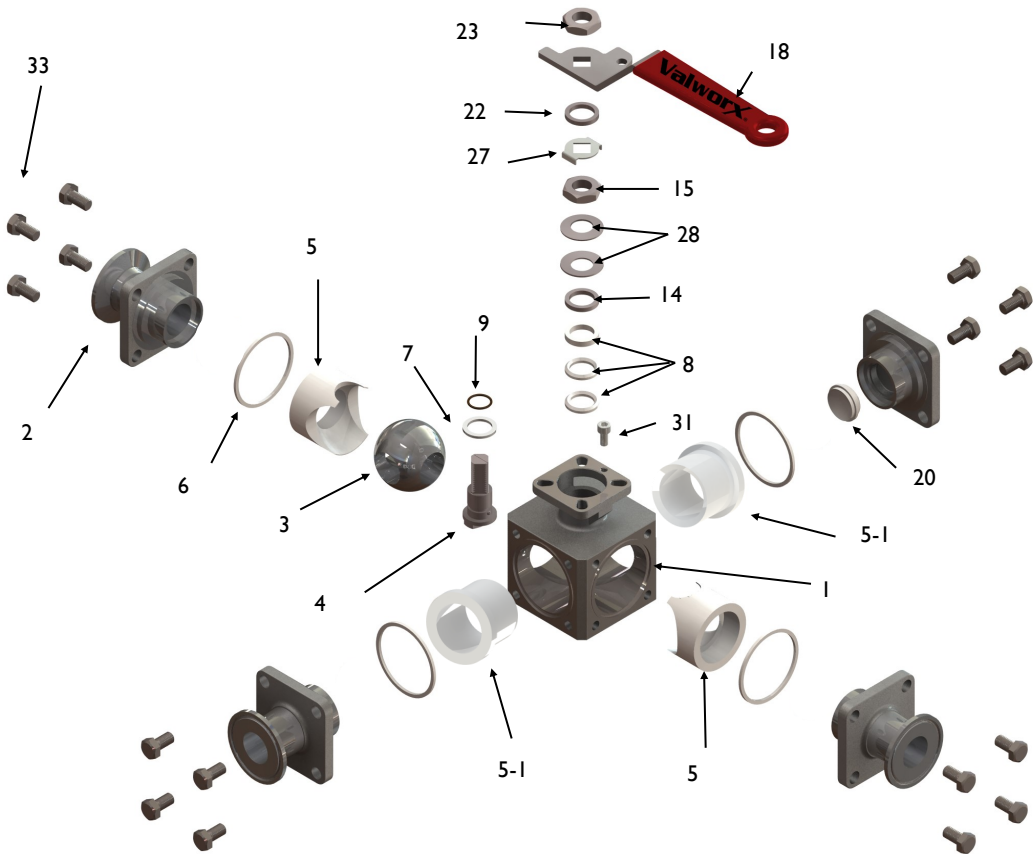
Pressure/Temp. Chart—69 Bar

Metric Units			
Temp °C	-20	49	180
Pressure	69	69	0



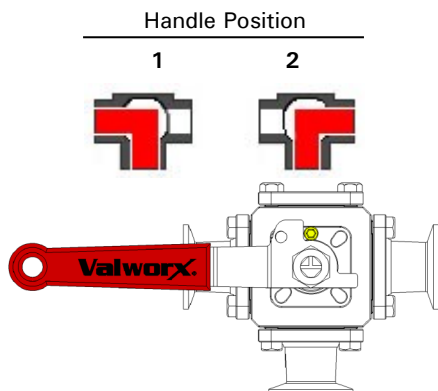
Specifications (Metric units)

Item	Part (Qty)	Material
1	Body	CF8M/316L
2	End Caps (3)	CF8M/316L
3	Ball	SS 316
4	Ball	SS 316
5	Seat 1	Dyneon®PTFE
5-1	Seat 2	Dyneon®PTFE
6	Gasket	PTFE
7	Thrust Washer	PTFE
8	Stem Packing	PTFE
9	O-Ring	VITON®
13	End Cap	CF8M/316L
14	Ring	SS 304
15	Stem Nut	SS 304
18	Handle	SS 304
20	Seat Back	PTFE
22	Plain Washer	SS 304
23	Handle Nut	SS 304
27	Locking Tab	SS 304
28	Belleville Spring Washer	SS 301
31	Stop Pin	SS 304
33	Bolts	SS 304



Flow Path Options

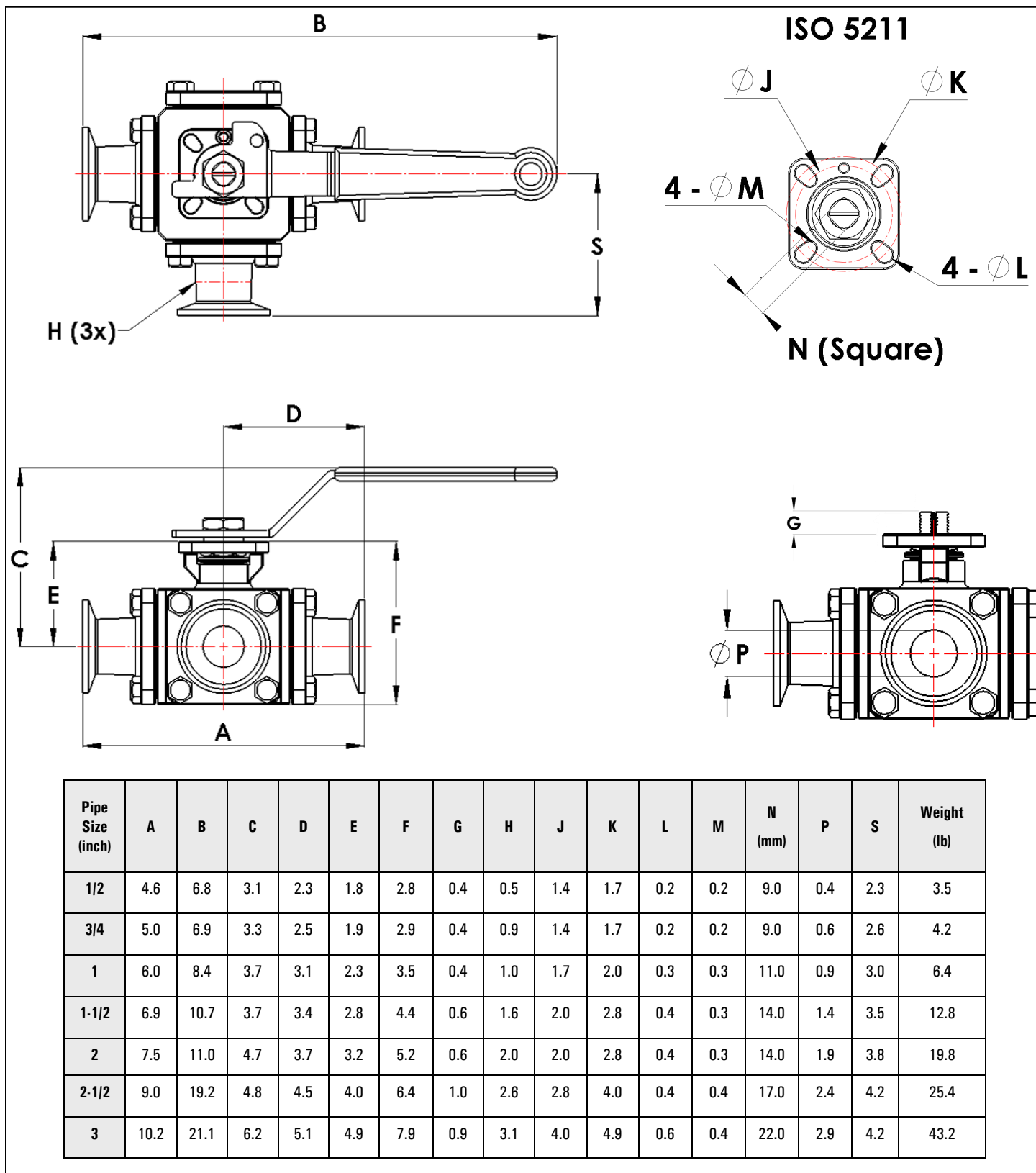
L-port



Valve shown is a T-Port model in T1 position 2. To change this position, you may rotate valve to flow paths T2, T3 or T4 with stop pin removed.

	Handle Position	
	1	2
T1		
T2		
T3		
T4		

Dimensions: (inches)



Dimensions: (mm)

