

Features

- FULL PORT 3-way L or T flow pattern
- Stainless hand lever with latch locking device
- Actuator ready ISO5211 direct mounting pad
- 316SS CF8M investment cast body
- 316SS ball and stem
- PTFE (Teflon) ball seats
- Triple PTFE/Viton live loaded stem seals, adjustable
- Anti-static device
- Silicone Free
- Valves tested per API 598

Applications

Stainless steel 3-way ball valves are typically used to control water, air, oil, vacuum and other media compatible with the materials of construction. Often used as a diverter, selector or mixing valve with a variety of flow path options through the valve. Unique four ball seat design allows for full pressure at any port. Air or electric actuators can be direct mounted using standard ISO5211 mounting pad, eliminating the need for extra mounting brackets and couplings. Suitable for vacuum service to 29inHg.

Pressure-Temperature

Pressure Rating*: 1000 PSI (69 Bar) CWP non-shock

Vacuum 29inHg, Steam 100 PSI

Temperature Rating: -4 to 338° F (-20 to 170°C)

*See P/T chart

Construction

Valve Body	316SS ASTM A351, CF8M
Ball	316SS CF8M
Stem	316SS
Ball Seats	PTFE (Teflon)
Stem Seals	PTFE, Viton
Anti-Static Device	Ball to Stem (1/4" - 1-1/2") + Stem to Body (1-1/4 - 2")
Hand Lever	304SS with vinyl cover
Belleville Washers/Adjust. Nut	304SS



Operation

Turning the hand lever one quarter-turn (90°) rotates the ball from position one to position two. Latch locking device allows for pad locking the valve in either position. Valves can be set-up in any one of four different flow patterns (T1-T4) in the field by simply moving the handle and stop pin. Remove the hand lever and the valve is actuator ready with standard ISO5211 mounting pad and square output shaft.

Description

Full port investment cast stainless steel body and ball for maximum flow and minimum pressure drop. Adjustable live loaded stem seal packing helps compensate for wear, pressure or temperature fluctuations, extending the cycle life of the valve. Blow-out proof stem.

Options

- Air Actuators
- Electric Actuators

Specifications (English units)

Stock Number	Pipe Size (inch)	Orifice Diameter (inch)	Cv	Pressure* (PSI)	Torque (inch lbs)	ISO5211 Mount	Weight (lbs)
3-WAY SS VALVE L-PORT							
552802A	1/4	0.43	3.2	1000	40	F03/F04	1.6
552803A	3/8	0.43	3.5	1000	43	F03/F04	1.5
552804A	1/2	0.63	4.5	1000	62	F03/F04	2.4
552806A	3/4	0.79	10	1000	78	F04/F05	3.8
552808A	1	1.00	16	1000	132	F04/F05	5.5
552810A	1-1/4	1.25	31	1000	290	F05/F07	7.9
552812A	1-1/2	1.50	49	1000	323	F05/F07	12.8
552816A	2	2.00	82	1000	702	F07/F10	18
3-WAY SS VALVE T-PORT							
552902A	1/4	0.43	3.2	1000	40	F03/F04	1.6
552903A	3/8	0.43	3.5	1000	43	F03/F04	1.5
552904A	1/2	0.63	4.5	1000	62	F03/F04	2.4
552906A	3/4	0.79	10	1000	78	F04/F05	3.8
552908A	1	1.00	16	1000	132	F04/F05	5.5
552910A	1-1/4	1.25	31	1000	290	F05/F07	7.9
552912A	1-1/2	1.50	49	1000	323	F05/F07	12.8
552916A	2	2.00	82	1000	702	F07/F10	18

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

* Pressure range @ 0-100° F (reduced pressure for higher temperatures—see P/T chart)

• Torque at 0 PSI and 75°F

Flow Path Options

L-port

Handle Position
1 2

T-port

Handle Position
1 2

T1

T2

T3

T4

Handle shown in position 1. For T-port valves, this handle position is for T2 flow path; move stop pin and handle to set-up for flow paths T1, T3 or T4.

Specifications (Metric units)

Stock Number	Pipe Size (NPT)	Orifice Diameter (mm)	Kv	Pressure* (Bar)	Torque (Nm)	ISO5211 Mount	Weight (Kg)
3-WAY SS VALVE L-PORT							
552802A	1/4	11	2.8	69	4.5	F03/F04	0.72
552803A	3/8	11	3.0	69	4.9	F03/F04	0.66
552804A	1/2	16	3.9	69	7.0	F03/F04	1.07
552806A	3/4	20	8.6	69	8.8	F04/F05	1.70
552808A	1	25	14	69	14.9	F04/F05	2.50
552810A	1-1/4	32	27	69	32.8	F05/F07	3.60
552812A	1-1/2	38	42	69	36.5	F05/F07	5.80
552816A	2	50	70	69	79.3	F07/F10	8.00
3-WAY SS VALVE T-PORT							
552902A	1/4	11	2.8	69	4.5	F03/F04	0.72
552903A	3/8	11	3.0	69	4.9	F03/F04	0.66
552904A	1/2	16	3.9	69	7.0	F03/F04	1.07
552906A	3/4	20	8.6	69	8.8	F04/F05	1.70
552908A	1	25	14	69	14.9	F04/F05	2.50
552910A	1-1/4	32	27	69	32.8	F05/F07	3.60
552912A	1-1/2	38	42	69	36.5	F05/F07	5.80
552916A	2	50	70	69	79.3	F07/F10	8.00

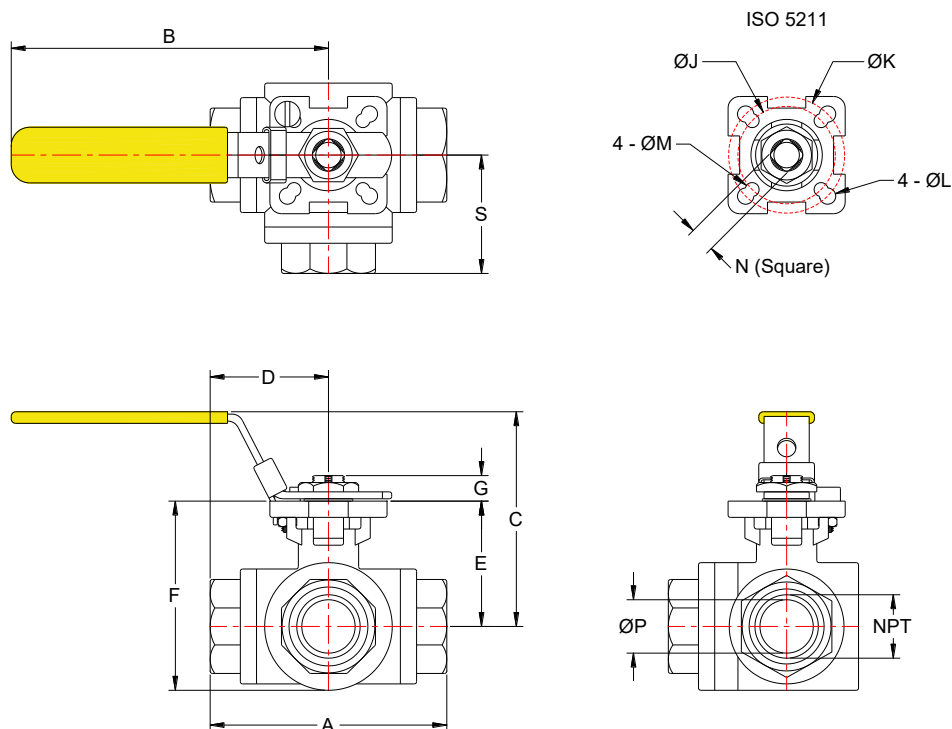
* Pressure range @ -18 to 38° C (reduced pressure for higher temperatures—see P/T chart)

• Torque at 0 Bar and 24°C

Pressure/Temperature Chart

P/T Chart (PSI/°F)							
PSI	1000	1000	1000	875	600	325	125
°F	0	50	100	150	200	250	300
P/T Chart (BAR/°C)							
BAR	69	69	69	60	41	22	8.6
°C	-18	10	38	66	93	121	149

Dimensions:



Pipe Size (NPT)		A	B	C	D	E	F	G	J	K	L	M	N	P	S	ISO	Weight
1/4	inch	2.98	5.20	3.07	1.49	1.50	2.22	0.35	1.42	1.65	0.24	0.24	0.35	0.43	1.51	F03/F04	1.6 lb
	mm	75.7	132	78.0	37.9	38.2	56.3	9.0	36	42	6	6	9	11	38.3		0.7 kg
3/8	inch	2.98	5.20	3.07	1.49	1.50	2.22	0.35	1.42	1.65	0.24	0.24	0.35	0.43	1.51	F03/F04	1.6 lb
	mm	75.7	132	78.0	37.9	38.2	56.3	9.0	36	42	6	6	9	11	38.3		0.7 kg
1/2	inch	3.41	5.20	3.25	1.70	1.78	2.68	0.35	1.42	1.65	0.24	0.24	0.35	0.63	1.76	F03/F04	2.3 lb
	mm	86.6	132	82.5	43.3	45.2	68.0	9.0	36	42	6	6	9	16	44.7		1.1 kg
3/4	inch	4.06	7.09	3.79	2.03	2.22	3.28	0.43	1.65	1.97	0.28	0.24	0.43	0.79	2.00	F04/F05	3.7 lb
	mm	103	180	96.3	51.5	56.5	83.3	11.0	42	50	7	6	11	20	50.8		1.7 kg
1	inch	4.65	7.09	4.0	2.33	2.44	3.74	0.43	1.65	1.97	0.28	0.24	0.43	0.98	2.27	F04/F05	5.4 lb
	mm	118	180	101.6	59.1	61.9	94.9	11.0	42	50	7	6	11	25	57.7		2.5 kg
1-1/4	inch	4.95	8.86	4.78	2.48	3.08	4.49	0.56	1.97	2.76	0.35	0.28	0.55	1.26	2.46	F05/F07	8.2 lb
	mm	126	225	121.3	62.9	78.3	114	14.3	50	70	9	7	14	32	62.6		3.7 kg
1-1/2	inch	5.87	8.86	5.15	2.93	3.44	5.20	0.55	1.97	2.76	0.35	0.28	0.55	1.50	2.93	F05/F07	12.9 lb
	mm	149	225	130.9	74.5	87.4	132	14.0	50	70	9	7	14	38	74.3		5.8 kg
2	inch	6.74	10.51	5.94	3.37	4.17	5.83	0.67	2.76	4.02	0.43	0.35	0.67	1.97	3.36	F07/F10	17.9 lb
	mm	171	267	150.8	85.6	105.8	148	17.0	70	102	11	9	17	50	85.3		8.1 kg