

Features

- Quick close actuator– 2, 4 or 8 second cycle times
- Full Port 316SS diverter or selector valve
- Silicone free with RTFE ball seats
- Triple PTFE/Viton live loaded stem seals, adjustable
- Valve anti-static device
- Visual valve position indicator
- Rugged aluminum Type 4X weatherproof enclosure
- Heavy duty motors with overload protection
- Thermostatically controlled anti-condensation heater
- Manual override with end of travel mechanical stops
- Two auxiliary position confirmation limit switches
- Actuators CSA Listed per UL429 and CSA C22.2

Applications

Motorized stainless steel flow diverter or selector valve typically used to control water, air, oil and other media compatible with the materials of construction. Steam service up to 25 PSI with optional high temperature mounting bracket and vacuum service up to 29" Hg. Actuator designed for 70% duty cycle.

Operation

Electric actuated valve uses power-to-open (Pos. 2) and power-to-close (Pos.1), stays in the last known position with power failure. On receipt of a continuous voltage signal, the motor runs and via a rugged all metal gear drive rotates the ball 90°. The motor is automatically stopped by internal cams striking limit switches. On receipt of a reversing continuous signal, the motor turns in the opposite direction reversing the valve position. Power connections are via included cable connector or optional 1/2" NPT conduit adapters. Manual override is available for setup and power failure situations.

Construction

Valve Body	316 stainless steel ASTM A351 CF8M
Ball/Stem	316 stainless steel
Ball Seats	RTFE (reinforced Teflon)
Stem Seals	PTFE / Viton
Anti-static Device	Ball to Stem (1/4" - 1-1/2") + Stem to Body (1-1/4" - 2")
Gear Drive	Heavy duty alloy steel and aluminium bronze
Actuator Enclosure	Aluminum, polyester powder painted, Type 4X, IP67
Visual Valve Position Indicator	Clear polycarbonate cover, red/yellow open-closed
Fasteners	Stainless Steel
Auxiliary Limit Switches	2 x SPDT 3A@125/250VAC, 30VDC resistive load



Description

Electrically operated full port 3-way L-type flow pattern ball valve has four RTFE ball seats, allowing for full pressure at any port. Adjustable live loaded stem seal packing helps compensate for wear, pressure and temperature fluctuations, extending the cycle life of the valve. Rugged corrosion resistant electric actuator includes a manual override, position confirm switches, thermostatically controlled anti-condensation heater, and over-torque protection.

Approvals

Actuators

- CSA Listed:
 - UL429 and CSA C22.2 No. 139
 - Type 4X, IP67 weatherproof enclosure
- CE conformance– EN 60204-1:2006

Valves

- Design: API 608
- Testing: API 598/ EN12266-1
- Threaded Connection:
 - ASME B1.20.1 (NPT)/ ISO 228-1/ BS21
- Pressure/Temperature Rating:
 - ASME B16.34
- Marking: MSS SP-25
- CE Conformance– PED 2014/68/UE



Construction Features

Auxiliary Limit Switches(2)
for confirming valve position

Heavy duty integral motor
design significantly reduces
physical size of actuator

Rugged polyester powder
coated aluminum Type 4X
weatherproof enclosure.

Triple PTFE/ FKM(Viton) live
loaded stem seals design,
adjustable

Full Port 316 stainless steel
3-way ball valve

Anti-Condensation Heater

Terminal Box, wire directly to
terminal strip via included
cable connector, or optional
1/2" NPT conduit adapters.

Manual Override with
protective cover

Self-locking all metal gear
drive, no additional brake
required

Direct mount ISO5211

316SS Ball and Stem, RTFE
ball seats

Pressure-Temperature*

Pressure Rating: 1000 PSI* (69 Bar),
25 PSI saturated steam with high temp kit
Vacuum 29in Hg

Ball Valve Temperature Rating: -4 to 392° F (-20 to 200° C)

Actuator Temperature Rating: -13 to 131° F (-25 to 55° C)

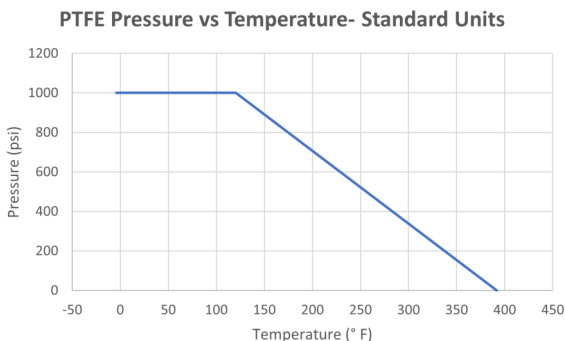
*See P/T chart



Visual Valve
Position Indicator

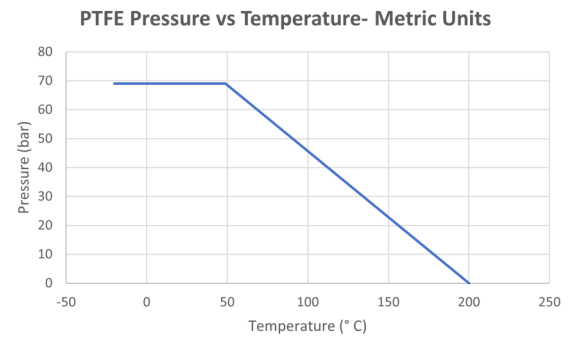
Pressure/Temperature Chart (PSI/°F)

P/T Chart					
PSI	1000	1000	900	700	0
°F	-4	104	167	212	392



Pressure/Temperature Chart (Bar/°C)

P/T Chart					
Bar	69	69	62	48	0
°C	-20	40	75	100	200



Specifications (English units)

Stock Number	Pipe Size (NPT)	Orifice Size (inch)	Cv Flow Factor	Pressure Max.(PSI)*	Cycle Time/ 90°	Voltage	Current (amps)	Duty Cycle	Electrical Dwg.	Quick Close Accessory
120 VAC ELECTRIC ACTUATED 3-WAY L-PORT STAINLESS BALL VALVE –QUICK CLOSE version										
565702F	1/4	0.4	5.0	1000	2	110 VAC, 50/60Hz	0.8	70%	B	A561825
565703F	3/8	0.4	7.3	1000	2	110 VAC, 50/60Hz	0.8	70%	B	A561825
565704F	1/2	0.6	8.9	1000	2	110 VAC, 50/60Hz	0.8	70%	B	A561825
565706F	3/4	0.8	18.9	1000	2	110 VAC, 50/60Hz	0.8	70%	B	A561825
565708F	1	1.0	32.0	1000	2	110 VAC, 50/60Hz	0.8	70%	B	A561825
565710F	1-1/4	1.3	41.2	1000	4	110 VAC, 50/60Hz	0.8	70%	B	A561850
565712F	1-1/2	1.5	52.1	1000	4	110 VAC, 50/60Hz	0.8	70%	B	A561850
565716E	2	2.0	79.3	1000	8	110 VAC, 50/60Hz	1.2	70%	B	A561870
24 VDC ELECTRIC ACTUATED 3-WAY L-PORT STAINLESS BALL VALVE–QUICK CLOSE version										
565744F	1/4	0.4	5.0	1000	4	DC24	6.0	70%	G	A561851
565745F	3/8	0.4	7.3	1000	4	DC24	6.0	70%	G	A561851
565746F	1/2	0.6	8.9	1000	4	DC24	6.0	70%	G	A561851
565747F	3/4	0.8	18.9	1000	4	DC24	6.0	70%	G	A561851
565749F	1	1.0	32.0	1000	4	DC24	6.0	70%	G	A561851
565750F	1-1/4	1.3	41.2	1000	4	DC24	6.0	70%	G	A561851
565751F	1-1/2	1.5	52.1	1000	4	DC24	6.0	70%	G	A561851
565752E	2	2.0	79.3	1000	8	DC24	6.0	70%	G	A561871

* Pressure @ 100° F (see P/T chart for higher temperatures)

Electric Actuated 3-Way L-port Valves

Valworx electric actuated 3-way L-Port valves use power-to-open (pos.2) and power-to-close (pos.1), stays in the last known position with loss of power. The actuator will rotate the output drive 90° to change the position of the ball valve. Limit switches automatically stop the motor/gear drive in either position 1 or position 2 as required.

Two auxiliary limit switches are provided as standard to confirm valve position.

Rugged primary gear drive system is made of heat treated alloy steel for high strength, excellent wear resistance and high torque. Final stage aluminium bronze worm gear drive is self-locking, no motor brake required.

A manual override is provided for use in setup or power failure situations. The override is operated with a standard hex wrench (included).

The standard 4 watt thermostatically controlled anti-condensation heater will help prevent failures due to condensation buildup inside the actuator.

Robust aluminium alloy housing is corrosion-resistant, polyester powder coated, and weatherproof. The housing is rated Type 4X (IP67) and certified by CSA. Heavy duty motors are integral to the actuator housing. The actuator has the smallest physical size to power ratio of most actuators on the market.

Electrical wiring is directly to a terminal strip via cable connectors (included) or optional 1/2" NPT conduit adapters.

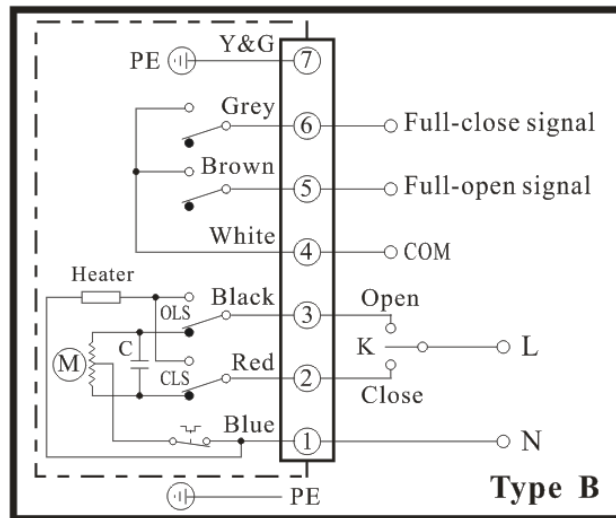
Specifications (Metric units)

Stock Number	Pipe Size (NPT)	Orifice Size (mm)	Kv Flow Factor	Pressure Max.(Bar)*	Cycle Time/ 90°	Voltage	Current (amps)	Duty Cycle	Electrical Dwg.	Quick Close Accessory
120 VAC ELECTRIC ACTUATED 3-WAY L-PORT STAINLESS BALL VALVE-QUICK CLOSE version										
565702F	1/4	11	4.3	69	2	110 VAC, 50/60Hz	0.8	70%	B	A561825
565703F	3/8	11	6.3	69	2	110 VAC, 50/60Hz	0.8	70%	B	A561825
565704F	1/2	16	7.7	69	2	110 VAC, 50/60Hz	0.8	70%	B	A561825
565706F	3/4	20	16.3	69	2	110 VAC, 50/60Hz	0.8	70%	B	A561825
565708F	1	25	27.7	69	2	110 VAC, 50/60Hz	0.8	70%	B	A561825
565710F	1-1/4	32	35.6	69	4	110 VAC, 50/60Hz	0.8	70%	B	A561850
565712F	1-1/2	38	45.1	69	4	110 VAC, 50/60Hz	0.8	70%	B	A561850
565716E	2	50	68.6	69	8	110 VAC, 50/60Hz	1.2	70%	B	A561870
24 VDC ELECTRIC ACTUATED 3-WAY L-PORT STAINLESS BALL VALVE-QUICK CLOSE version										
565744F	1/4	11	4.3	69	4	DC24	6.0	70%	G	A561851
565745F	3/8	11	6.3	69	4	DC24	6.0	70%	G	A561851
565746F	1/2	16	7.7	69	4	DC24	6.0	70%	G	A561851
565747F	3/4	20	16.3	69	4	DC24	6.0	70%	G	A561851
565749F	1	25	27.7	69	4	DC24	6.0	70%	G	A561851
565750F	1-1/4	32	35.6	69	4	DC24	6.0	70%	G	A561851
565751F	1-1/2	38	45.1	69	4	DC24	6.0	70%	G	A561851
565752E	2	50	68.6	69	8	DC24	6.0	70%	G	A561871

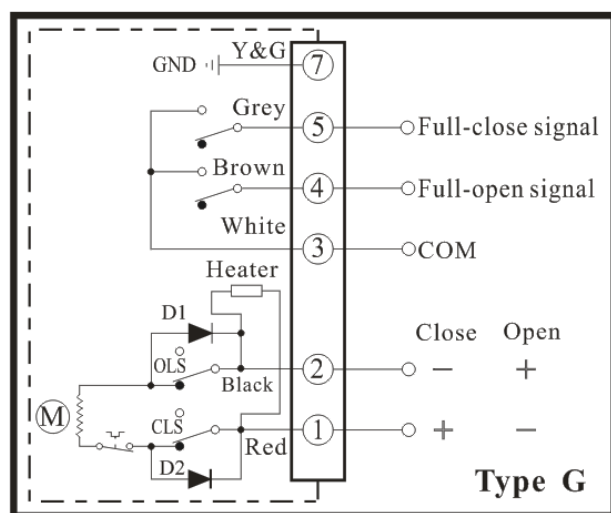
* Pressure @ 38° C (see P/T chart for higher temperatures)

Electrical Wiring

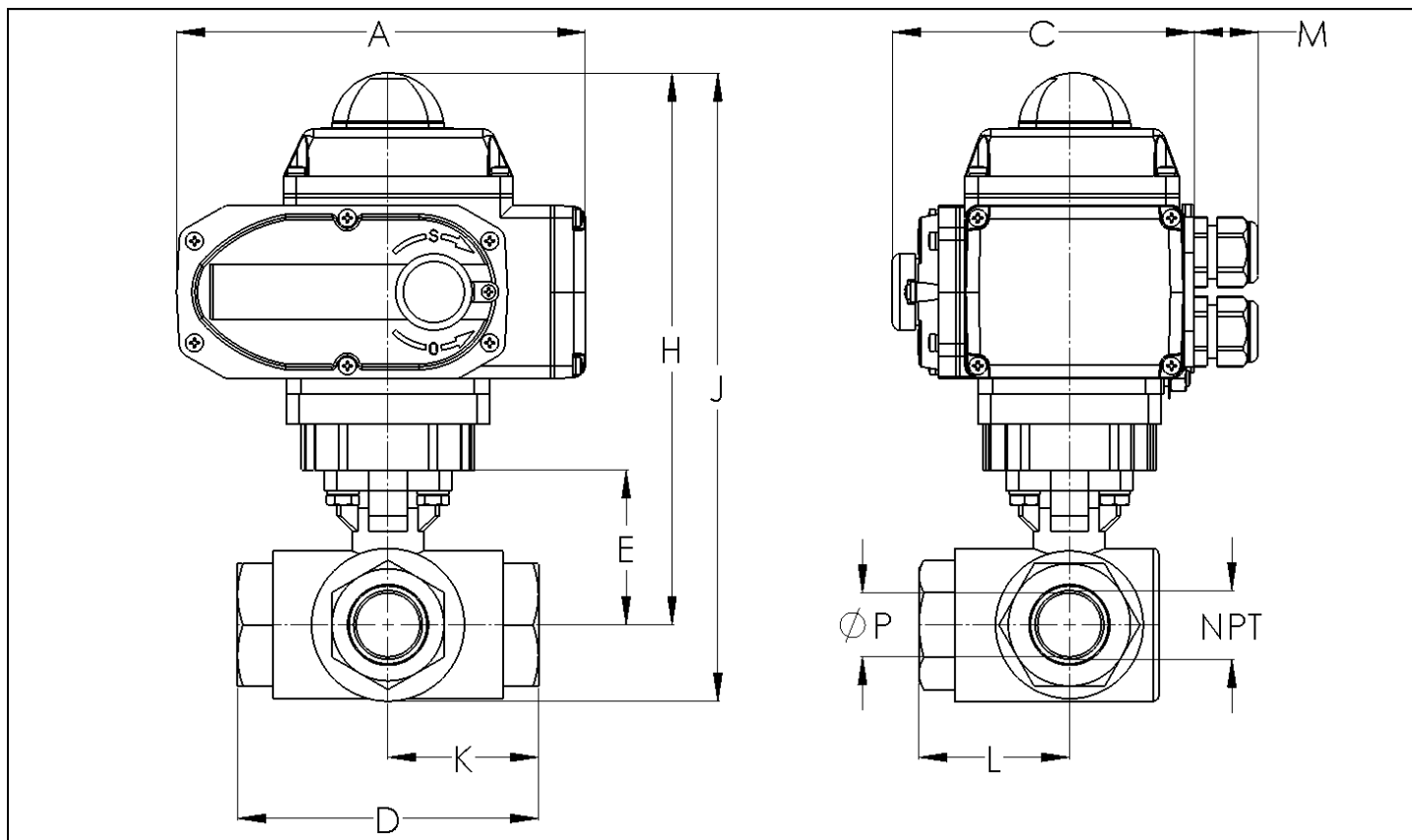
AC Voltages



DC Voltages



Dimensions:



Pipe Size (NPT)		A	C	D	E	H	J	K	L	M	P	Weight
1/4	inch	7.7	5.0	2.9	1.5	8.6	9.4	1.5	1.5	1.0	0.4	11.6 lb
	mm	196.5	126.0	76.0	38.2	218.4	238.8	38.0	38.5	25.0	11.0	5.3 kg
3/8	inch	7.7	5.0	2.9	1.5	8.6	9.4	1.5	1.5	1.0	0.4	11.5 lb
	mm	196.5	126.0	76.0	38.2	218.4	238.8	38.0	38.5	25.0	11.0	5.2 kg
1/2	inch	7.7	5.0	3.3	1.8	8.9	9.8	1.7	1.8	1.0	0.6	12.0 lb
	mm	196.5	126.0	85.0	45.2	226.1	248.9	42.5	45.0	25.0	16.0	5.5 kg
3/4	inch	7.7	5.0	3.9	2.2	9.3	10.4	1.9	2.0	1.0	0.8	13.2 lb
	mm	196.5	126.0	98.0	56.5	236.2	264.2	49.0	51.5	25.0	20.0	6.0 kg
1	inch	7.7	5.0	4.4	2.4	9.5	10.9	2.2	2.3	1.0	1.0	14.9 lb
	mm	196.5	126.0	112.5	61.9	241.3	276.9	56.3	58.0	25.0	25.0	6.8 kg
1-1/4	inch	7.7	5.0	4.9	3.1	10.2	11.7	2.5	2.5	1.0	1.3	17.2 lb
	mm	196.5	126.0	125.0	78.3	259.1	297.2	63.0	63.0	25.0	32.0	7.8 kg
1-1/2	inch	7.7	5.0	5.6	3.4	10.7	12.5	2.8	2.9	1.0	1.5	22.0 Lb
	mm	196.5	126.0	141.0	87.4	271.8	317.5	70.5	74.5	25.0	38.0	4.8 kg
2	inch	10.1	6.3	6.7	4.2	12.7	14.8	3.4	3.4	1.0	2.0	36.5 lb
	mm	256.0	160.0	171.0	105.8	322.5	375.9	85.5	85.5	25.0	50.0	16.6 kg