

Features

- Quick close actuator– 8 second cycle time
- Double offset design reduces seal wear
- High quality, 316SS (CF8M) valve body, disc, and stem
- Reinforced Teflon (RPTFE) seats for expanded temperature range
- Heavy-duty, single piece cast & machined disc with integral mounting sleeve
- Spring loaded seat cover for easier removal and replacement of the valve seat
- 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

High performance wafer butterfly valves are used to control the flow of waters, oils, air, certain caustics, and other media compatible with the materials of construction for general service and where an expanded temperature range or higher pressure is required. Actuators designed for 70% duty cycle.

Operation

On-Off electric actuated valve uses power-to-open and power-to-close, stays in the last known position with loss of power. On receipt of a continuous voltage signal, the motor runs and via a rugged all metal gear system 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 direct to terminal strip via included cable connector, or optional 1/2" NPT conduit adapters.

Construction

Valve Body	316 stainless steel CF8M
Disc	316 stainless steel CF8M
Disc Seat/ Liner	RPTFE
Stem/ Stem Seals	17-4PH/316SS/ V-ring (same material as seat)
Gear Drive	Heavy duty alloy steel/ aluminum bronze, self locking
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 (5A/125VAC), on-off actuators only



Description

Electric operated direct mount high performance butterfly valves with 316 stainless steel wafer body are designed for commercial and industrial applications. Valve mounts between two standard ANSI/ASME Class 125/150 flanges. Disc is precision machined 316SS. Double offset design to reduce seal wear. Rugged corrosion resistant electric actuator includes a manual override, valve position confirmation switches (on-off units), thermostatically controlled anti-condensation heater, and over-torque protection.

Approvals

Actuators

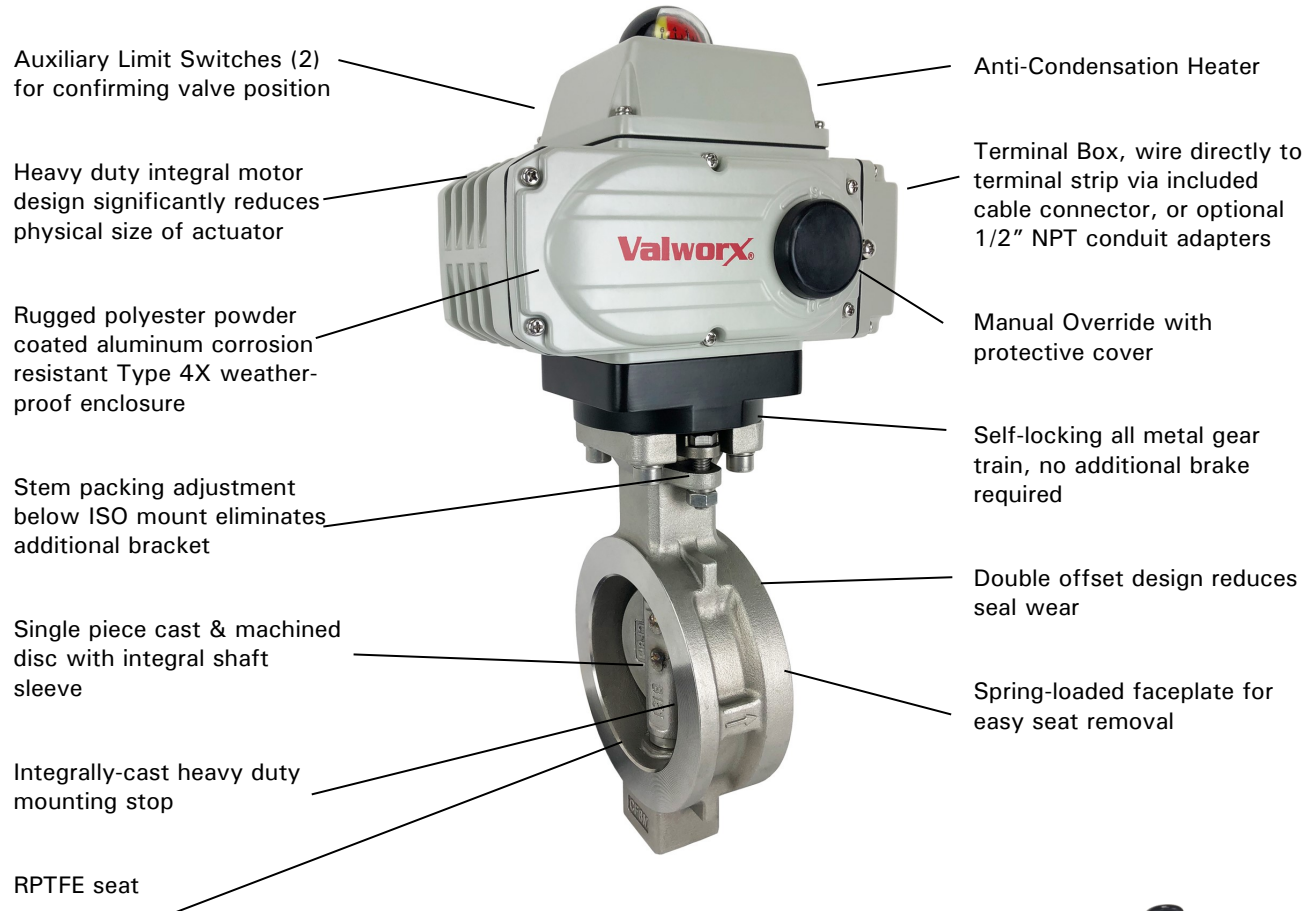
- CSA Listed to:
 - UL429 and CSA C22.2 no 139
 - Type 4X, IP67 weatherproof enclosure
- CE conformance– EN60204-1:2006
- ISO5211 Mounting



Valves– Standards

- ANSI/ASME B16.5 CLASS150
- ANSI/ASME B16.1 CLASS125
- EN1092 PN10, PN16
- JIS B 2239 10K, 16K
- CE conformance– PED 2014-68/UE

Construction Features



Visual Valve
Position Indicator

Pressure Rating

Pressure Rating: 285 PSI (19.7 Bar)

Temperature Rating

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

Valve Temperature Rating: RPTFE seals: -20 to 500° F (-29 to 260°C)

Specifications (English units)

Stock Number	Pipe Size (inch)	Orifice Diam. (inch)	Cv Flow Factor	Pressure Max. (PSI)	Cycle Time/90° (seconds)	Voltage	Current (amps)	Duty Cycle	Electrical Dwg.	Quick Close Accessory
120 VAC ELECTRIC ACTUATED HIGH PERFORMANCE WAFER BODY BUTTERFLY VALVE, RPTFE SEALS- QUICK CLOSE version										
569103	3	2.9	165	285	8	110 VAC, 50/60Hz	0.65	70%	B	A561862
569104	4	3.8	400	285	8	110 VAC, 50/60Hz	0.65	70%	B	A561862
569106	6	5.6	1050	285	8	110 VAC, 50/60Hz	0.65	70%	B	A561870
24 VDC ELECTRIC ACTUATED HIGH PERFORMANCE WAFER BODY BUTTERFLY VALVE, RPTFE SEALS- QUICK CLOSE version										
569303	3	2.9	165	285	8	DC24	6.0	70%	G	A561865
569304	4	3.8	400	285	8	DC24	6.0	70%	G	A561865
569306	6	5.6	1050	285	8	DC24	6.0	70%	G	A561871

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

* Consult compatibility chart for other fluid media. Suitable for vacuum up to 29 inHg

* See P/T Chart (Page 4)

Specifications (Metric units)

Stock Number	Pipe Size (DN)	Orifice Diam. (mm)	Kv Flow Factor	Pressure Max. Bar)	Cycle Time/90° (seconds)	Voltage	Current (amps)	Duty Cycle	Electrical Dwg.	Quick Close Accessory
120 VAC ELECTRIC ACTUATED HIGH PERFORMANCE WAFER BODY BUTTERFLY VALVE, RPTFE SEALS- QUICK CLOSE version										
569103	80	73.7	143	19.7	8	110 VAC, 50/60Hz	0.65	70%	B	A561862
569104	100	96.5	346	19.7	8	110 VAC, 50/60Hz	0.65	70%	B	A561862
569106	150	142.2	908	19.7	8	110 VAC, 50/60Hz	0.65	70%	B	A561870
24 VDC ELECTRIC ACTUATED HIGH PERFORMANCE WAFER BODY BUTTERFLY VALVE, RPTFE SEALS- QUICK CLOSE version										
569303	80	73.7	143	19.7	8	DC24	6.0	70%	G	A561865
569304	100	96.5	346	19.7	8	DC24	6.0	70%	G	A561865
569306	150	142.2	908	19.7	8	DC24	6.0	70%	G	A561871

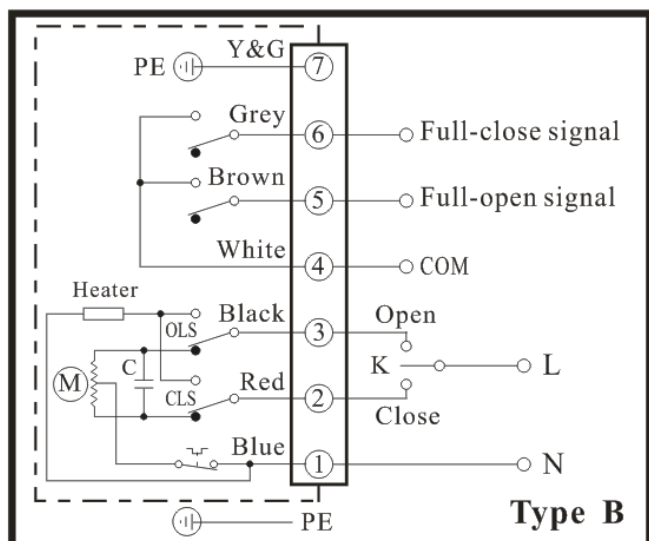
Kv = The number of m³ per hour of 20° C water at 1 bar pressure drop

* Consult compatibility chart for other fluid media. Suitable for vacuum up to 29 inHg

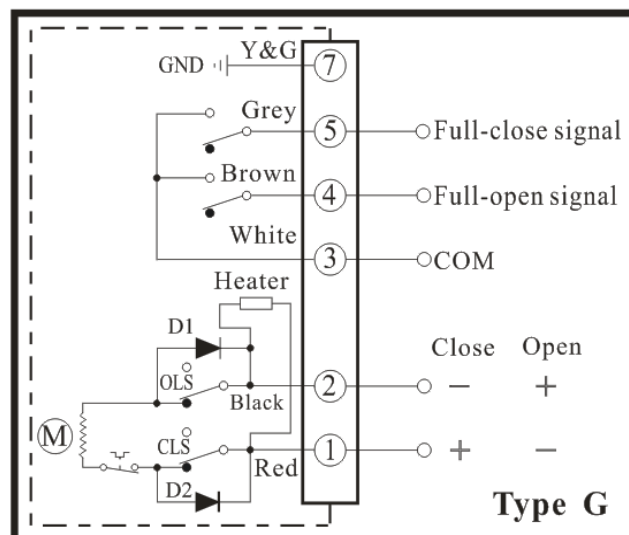
* See P/T Chart (Page 4)

Electrical Wiring

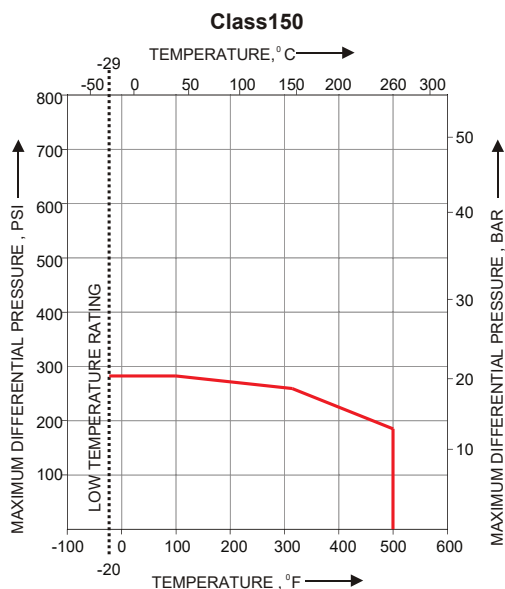
AC Voltages



DC Voltages

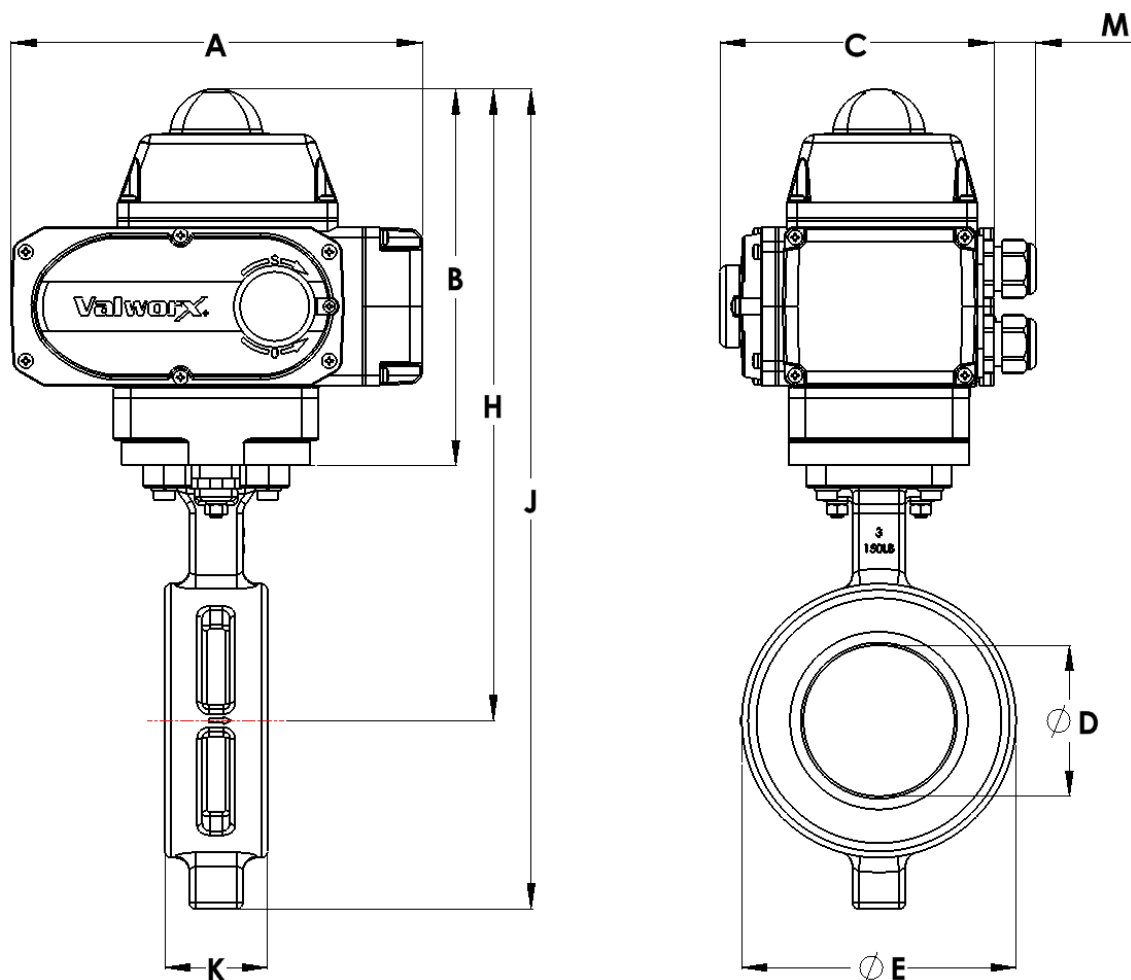


PT Chart



Rated value for 150 Lb body			
Temperature °F	Temperature °C	CF8M (PSI)	CF8M (bar)
-20.2 to 100.4	-29 to 38	275.6	19.0
199.4	93	235.0	16.2
300.2	149	214.7	14.8
399.2	204	194.4	13.4
500	260	169.7	11.7

Dimensions:



Suitable between flanges:

- ◆ ANSI/ASME B16.5 CLASS150
- ◆ ANSI/ASME B16.1 CLASS125
- ◆ EN1092 PN10, PN16
- ◆ JIS B 2239 10K, 16K
- ◆ BS 10 Table D, Table E

Pipe Size		A	B	C	D	E	H	J	K	M	Weight (AC)
3 DN80	inch	10.1	8.5	6.4	2.8	5.2	13.3	16.8	1.9	1.0	29.5 lb
	mm	256.5	215.9	162.6	72	131	337.8	426.7	49	25.4	13.4 kg
4 DN100	inch	10.1	8.5	6.4	3.7	6.1	13.8	17.9	2.1	1.0	32.7 lb
	mm	256.5	215.9	162.6	94	155	350.5	454.7	54	25.4	14.9 kg
6 DN150	inch	10.1	8.5	6.4	5.5	8.5	15.1	20.5	2.2	1.0	45.4 lb
	mm	256.5	215.9	162.6	140	216	383.5	520.7	57	25.4	20.5 kg