

Features

- All materials comply with FDA, USDA, and 3-A requirements
- Highly polished internals and end caps with 32 Ra finish
- Forged ASTM 316L stainless steel valve body and end caps
- Tri-Clamp ends for hygienic connections
- Valve body machining and chamfering done by a single CNC process for precise fit
- 316L mirror finish disc/stem for minimal flow resistance
- Bi-directional flow
- Single piece forged & machined stem/disc
- 100% tested with full traceability of all components
- 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
- EPS - Electronic Positioning System models available
- Actuators CSA Listed per UL429 and CSA C22.2

Applications

Sanitary 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 disc 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	ASTM 316L stainless steel
Disc/ Stem	316L stainless steel
Disc Seat/ Liner	EPDM
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	304 stainless steel
Auxiliary Limit Switches	2 x SPDT (5A/125VAC), on-off actuators only



Description

Electric operated direct mount sanitary butterfly valves are designed for commercial and industrial applications. 316L stainless steel valve body for excellent corrosion resistance. Single piece 316L disc/stem with disc polished to mirror finish to minimize flow turbulence. Sanitary tri-clamp ends for quick, sanitary connections and easy cleaning.

Approvals

Actuators

- CSA Listed to:
 - UL429 and CSA C22.2 no 139
 - Type 4X, IP67 weatherproof enclosure

- CE conformance
 - ISO5211 Mounting

Valves- Standards

- Construction
 - FDA 21 CFR 177.2600
- Testing
 - API598



Construction Features



Visual Valve
Position Indicator

Pressure Rating

Pressure Rating: 1-2", 160 PSI @ 67 °F,
3-4" 140 PSI @ 67 °F

Temperature Rating

Actuator Temperature Rating: -13 to 131° F (-25 to 55° C)
Valve Temperature Rating: EPDM seals: -67 to 302°F (-55 to 150°C)

Specifications (English units)

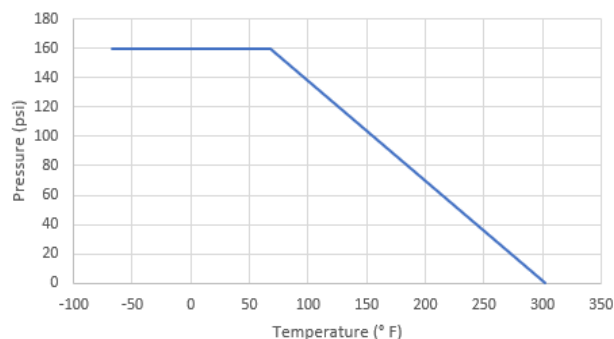
Stock Number	Pipe Size (inch)	Orifice Diam. (inch)	Cv Flow Factor	Pressure Max. (PSI)	Cycle Time/90°	Voltage	Current (amps)	Duty Cycle	Electrical Dwg.
120 VAC ELECTRIC ACTUATED SANITARY BUTTERFLY VALVE, EPDM SEALS									
574102	1	0.9	23.0	160	25/21	110 VAC, 50/60Hz	0.3	70%	B
574103	1-1/2	1.4	80.0	160	25/21	110 VAC, 50/60Hz	0.3	70%	B
574104	2	1.9	230.0	160	25/21	110 VAC, 50/60Hz	0.3	70%	B
574106	3	2.9	372.0	140	30/25	110 VAC, 50/60Hz	0.6	70%	B
574107	4	3.8	800.0	140	30/25	110 VAC, 50/60Hz	0.6	70%	B
24 VDC ELECTRIC ACTUATED SANITARY BUTTERFLY VALVE, EPDM SEALS									
574302	1	0.9	23.0	160	20	DC24	1.3	70%	G
574303	1-1/2	1.4	80.0	160	20	DC24	1.3	70%	G
574304	2	1.9	230.0	160	20	DC24	1.3	70%	G
574306	3	2.9	372.0	140	30	DC24	2.0	70%	G
574307	4	3.8	800.0	140	30	DC24	2.0	70%	G

* Pressure @ -67° to 302° F (reduced pressure at higher temperatures—see P/T chart)

Standard Units 1-2"

Temp °F	-67	68	302
Pressure	160	160	0

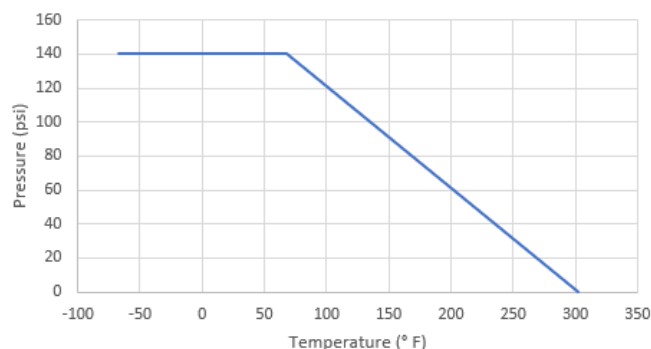
Pressure vs Temperature- Standard Units



Standard Units 3-4"

Temp °F	-67	68	302
Pressure	140	140	0

Pressure vs Temperature- Standard Units



Specifications (Metric units)

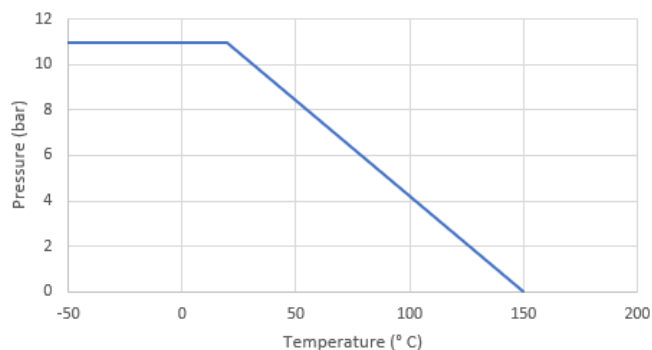
Stock Number	Pipe Size (DN)	Orifice Diam. (mm)	Kv Flow Factor	Pressure Max. (Bar)	Cycle Time/90° (seconds)	Voltage	Current (amps)	Duty Cycle	Electrical Dwg.
120 VAC ELECTRIC ACTUATED SANITARY BUTTERFLY VALVE, EPDM SEALS									
574102	1	22.1	19.9	11.0	25/21	110 VAC, 50/60Hz	0.3	70%	B
574103	1-1/2	34.8	69.2	11.0	25/21	110 VAC, 50/60Hz	0.3	70%	B
574104	2	47.5	199.0	11.0	25/21	110 VAC, 50/60Hz	0.3	70%	B
574106	3	72.9	321.8	9.7	30/25	110 VAC, 50/60Hz	0.6	70%	B
574107	4	97.6	692.0	9.7	30/25	110 VAC, 50/60Hz	0.6	70%	B
24 VDC ELECTRIC ACTUATED SANITARY BUTTERFLY VALVE, EPDM SEALS									
574302	1	22.1	19.9	11.0	20	DC24	1.3	70%	G
574303	1-1/2	34.8	69.2	11.0	20	DC24	1.3	70%	G
574304	2	47.5	199.0	11.0	20	DC24	1.3	70%	G
574306	3	72.9	321.8	9.7	30	DC24	2.0	70%	G
574307	4	97.6	692.0	9.7	30	DC24	2.0	70%	G

* Pressure range @ -55° to 150° C (reduced pressure for higher temperatures—see P/T chart)

Metric Units 1-2"

Temp °C	-55	20	150
Pressure	11	11	0

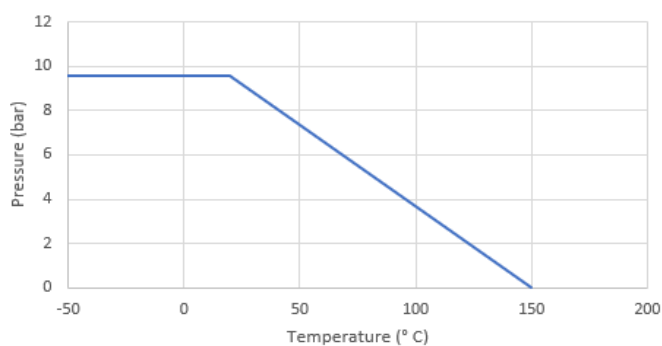
Pressure vs Temperature- Metric Units



Metric Units 3-4"

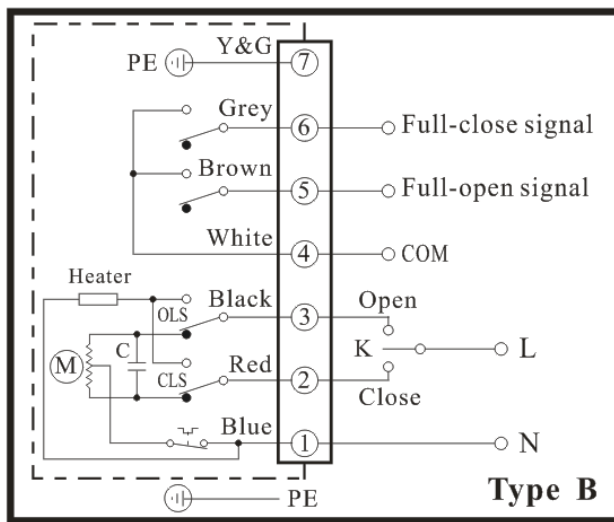
Temp °C	-55	20	150
Pressure	9.6	9.6	0

Pressure vs Temperature- Metric Units

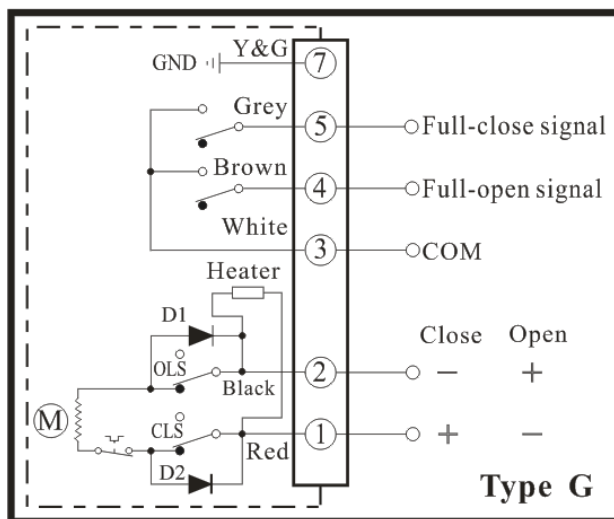


Electrical Wiring

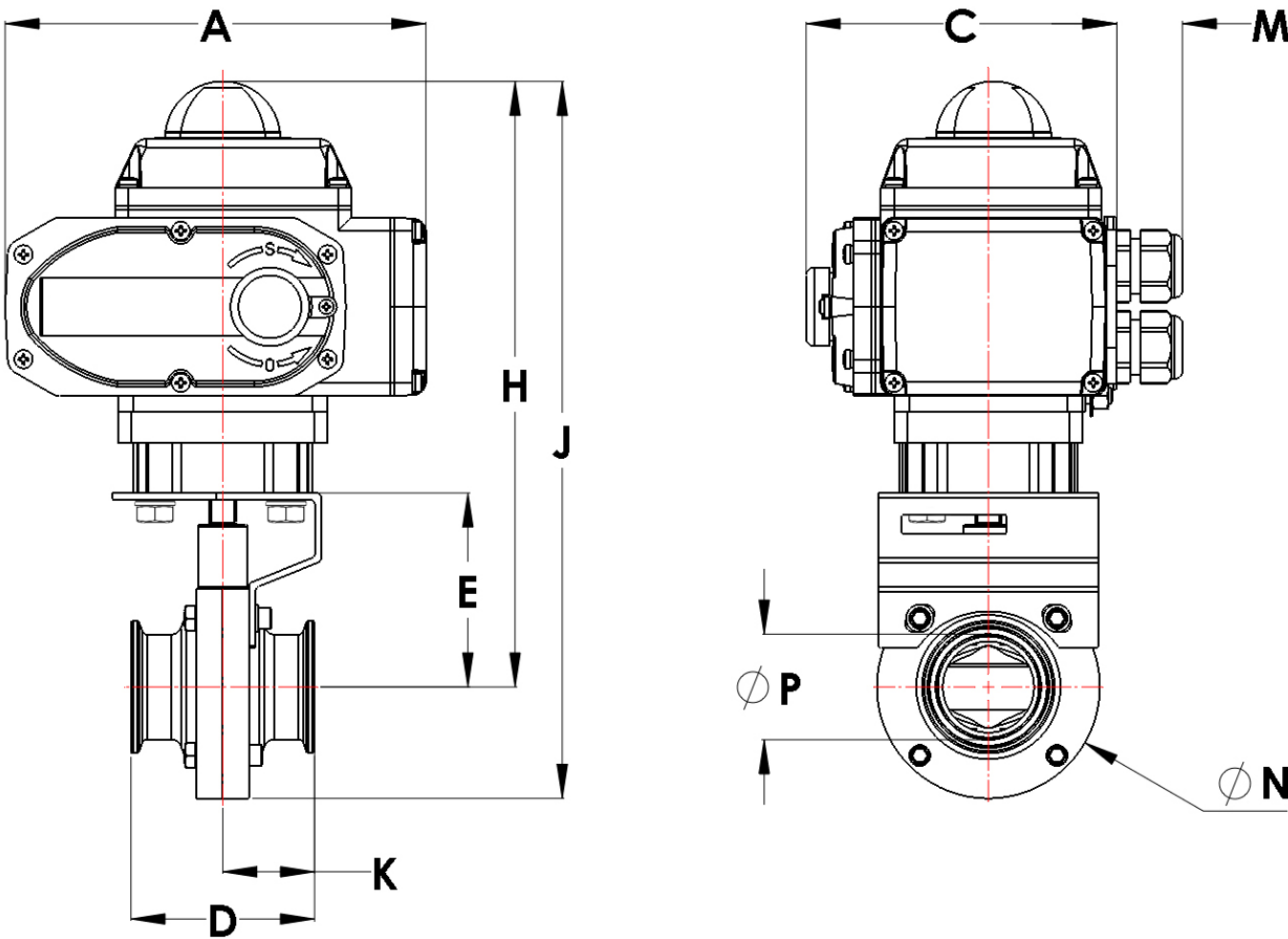
AC Voltages



DC Voltages

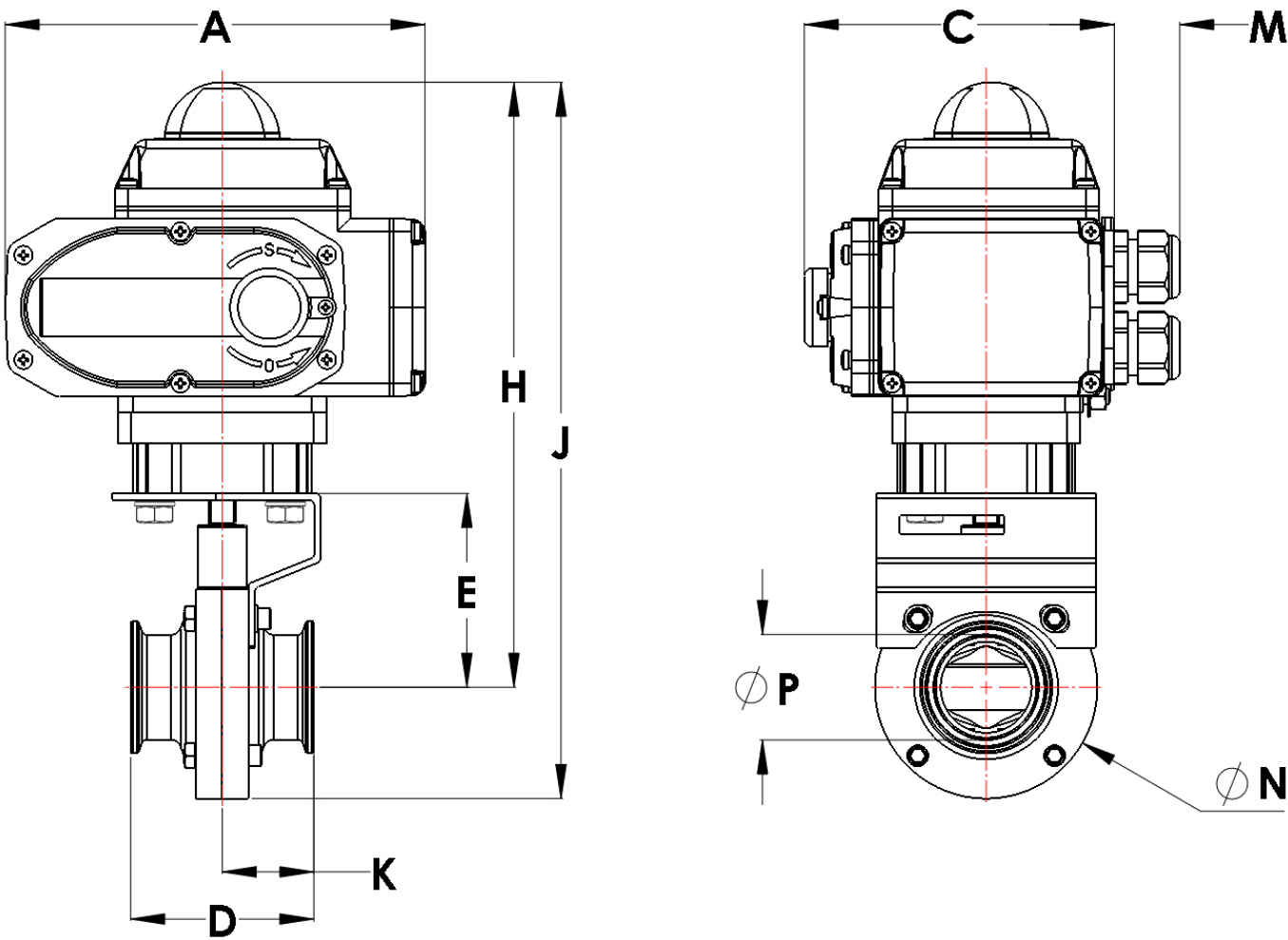


Dimensions: (110AC)



Pipe Size		A	C	D	E	H	J	K	M	N	P	Weight (AC)
1	inch	6.4	4.7	2.8	2.8	8.9	10.5	1.4	1.0	3.1	0.9	9.2 lb
	mm	162.0	118.5	70.0	69.9	226.9	266.4	35.0	25.0	79.0	22.1	4.2 kg
1-1/2	inch	6.4	4.7	2.8	2.9	9.1	10.8	1.4	1.0	8.3	1.4	8.9 lb
	mm	162.0	118.5	70.0	74.0	231.0	273.5	35.0	25.0	85.0	34.8	4.0 kg
2	inch	6.4	4.7	2.9	3.1	9.2	11.2	1.5	1.0	3.9	1.9	9.1 lb
	mm	162.0	118.5	74.0	77.7	234.7	284.7	37.0	25.0	100.0	47.5	4.1 kg
3	inch	7.7	5.0	3.1	3.7	10.8	13.3	1.5	1.0	5.0	2.9	14.6 lb
	mm	196.5	126.0	78.0	94.5	274.5	338.0	39.0	25.0	127.0	72.9	6.6 kg
4	inch	7.7	5.0	3.5	4.3	11.4	14.4	1.8	1.0	6.1	3.8	17.1 lb
	mm	196.5	126.0	90.0	108.7	288.7	366.7	45.0	25.0	156.0	97.6	7.8 kg

Dimensions: (24DC)



Pipe Size		A	C	D	E	H	J	K	M	N	P	Weight (DC)
1	inch	6.4	4.7	2.8	2.8	8.9	10.5	1.4	1.0	3.1	0.9	8.7 lb
	mm	162.0	118.5	70.0	69.9	226.9	266.4	35.0	25.0	79.0	22.1	3.9 kg
1-1/2	inch	6.4	4.7	2.8	2.9	9.1	10.8	1.4	1.0	8.3	1.4	8.4 lb
	mm	162.0	118.5	70.0	74.0	231.0	273.5	35.0	25.0	85.0	34.8	3.8
2	inch	6.4	4.7	2.9	3.1	9.2	11.2	1.5	1.0	3.9	1.9	8.6 lb
	mm	162.0	118.5	74.0	77.7	234.7	284.7	37.0	25.0	100.0	47.5	3.9 kg
3	inch	7.7	5.0	3.1	3.7	10.8	13.3	1.5	1.0	5.0	2.9	14.6 lb
	mm	196.5	126.0	78.0	94.5	274.5	338.0	39.0	25.0	127.0	72.9	6.6 kg
4	inch	7.7	5.0	3.5	4.3	11.4	14.4	1.8	1.0	6.1	3.8	17.1 lb
	mm	196.5	126.0	90.0	108.7	288.7	366.7	45.0	25.0	156.0	97.6	7.8 kg