

Features

- Wafer butterfly valve with ISO5211 direct mount actuator
- Unique wave line seat reduces torque and extends seal life
- Ductile iron body with 3-layer epoxy coating and 316SS disc
- LED light gives continuous status indication (2" to 4" sizes)
- IP67 watertight/weatherproof enclosure
- Multi-voltage capable with auto-voltage sensing
- Electronic torque limiter - protects against valve jams
- Anti-condensation heater
- Manual override with visual valve position indicator
- Electrical connections via external DIN plugs, no need to remove the cover
- Two dry contact auxiliary limit switches used to confirm valve open/closed position

Applications

EPDM seals typically used for on-off control of water and other media compatible with the materials of construction. NBR (Buna-N) seals typically used for air, oil, vacuum and other media compatible with the materials of construction. Actuator designed for 75% duty cycle. Multi-standard alignment holes, suitable for flanges: ANSI/ASME Class 125/150, EN1092 PN10, PN16, BS10 Table D, E and JIS B2239 10K, 16K.

Temperature Rating

Actuator Temperature Rating: -4 to 158° F (-20 to 70° C)

Valve Temperature Rating: EPDM seals 0 to 248° F (-18 to 120°C)

NBR seals 5 to 185° F (-15 to 85°C)

Construction

Valve Body	3-layer Epoxy/Epoxy/PUR coated ductile iron
Disc	316 stainless steel CF8M
Disc Seat/Liner	EPDM or NBR (Buna-N)
Stem/Stem Seals	420 stainless steel / V-ring (same material as seat)
Actuator Enclosure	Anti-corrosive Polyamide, UV protection
Manual Override/Position Indicator	Glass-filled Polyamide / Clear Polyamide Dome
Fasteners	Stainless Steel



Operation

Electric actuated valve uses power-to-open and power-to-close, stays in the last known position with power failure. On receipt of a continuous voltage signal, the motor runs and via a flat 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.

Description

Electric operated direct mount butterfly valves with epoxy-coated ductile iron wafer body are designed for commercial and industrial applications. Valve mounts between two standard ANSI/ASME Class 150 and other international flange types. Seat to flange seal, eliminates the need for flange gaskets. Disc is precision machined 316SS. Two piece stem and disc design enhances the flow capacity and reduces turbulence.

Optional Functions

BSR: Battery Spring Return Kit

- actuator fails to a safe position with loss of power

DPS: Digital Positioning System

- valve disc position controlled by 4-20mA or 0-10V control signal

Specifications (English units)

Stock Number	Pipe Size (inch)	Orifice Diam. (inch)	Cv Flow Factor	Pressure Max.(PSI)	Fluid Media*	Cycle Time/90° (seconds)	Max. Current Draw (Amps)				
							115VAC	240VAC	24VAC	12VDC	24VDC
Wafer Body EPDM Seals: 85-240 Volts AC or DC											
562602	2	2.00	124	230	Water	14	0.24	0.11	-	-	-
562603	2-1/2	2.50	247	230	Water	14	0.24	0.11	-	-	-
562604	3	3.00	470	230	Water	14	0.24	0.11	-	-	-
562605	4	4.00	929	230	Water	14	0.24	0.11	-	-	-
562607A	6	6.00	2243	230	Water	58	0.40	0.20	-	-	-
Wafer Body EPDM Seals: 12-24 Volts AC or DC**											
562612	2	2.00	124	230	Water	16	-	-	1.20	3.08	1.40
562613	2-1/2	2.50	247	230	Water	16	-	-	1.20	3.08	1.40
562614	3	3.00	470	230	Water	16	-	-	1.20	3.08	1.40
562615	4	4.00	929	230	Water	16	-	-	1.20	3.08	1.40
562617A	6	6.00	2243	230	Water	58	-	-	2.50	-	2.00
Wafer Body NBR (Buna- N) Seals: 85-240 Volts AC or DC											
562621	2	2.00	124	230	Air, Oil, Vacuum	14	0.24	0.11	-	-	-
562622	2-1/2	2.50	247	230	Air, Oil, Vacuum	14	0.24	0.11	-	-	-
562623	3	3.00	470	230	Air, Oil, Vacuum	14	0.24	0.11	-	-	-
562624	4	4.00	929	230	Air, Oil, Vacuum	14	0.24	0.11	-	-	-
562626A	6	6.00	2243	230	Air, Oil, Vacuum	58	0.40	0.20	-	-	-
Wafer Body NBR (Buna- N) Seals: 12-24 Volts AC or DC**											
562631	2	2.00	124	230	Air, Oil, Vacuum	16	-	-	1.20	3.08	1.40
562632	2-1/2	2.50	247	230	Air, Oil, Vacuum	16	-	-	1.20	3.08	1.40
562633	3	3.00	470	230	Air, Oil, Vacuum	16	-	-	1.20	3.08	1.40
562634	4	4.00	929	230	Air, Oil, Vacuum	16	-	-	1.20	3.08	1.40
562636A	6	6.00	2243	230	Air, Oil, Vacuum	58	-	-	2.50	-	2.00

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

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

** 12-24 volts for 2" to 4" sizes, 24 volts for 6" size

Specifications (Metric units)

Stock Number	Pipe Size (DN)	Orifice Diam. (mm)	Kv Flow Factor	Pressure Max.(Bar)	Fluid Media*	Cycle Time/90° (seconds)	Max. Current Draw (Amps)				
							115VAC	240VAC	24VAC	12VDC	24VDC
Wafer Body EPDM Seals: 85-240 Volts AC or DC											
562602	50	50	107	16	Water	14	0.24	0.11	-	-	-
562603	65	65	212	16	Water	14	0.24	0.11	-	-	-
562604	80	80	404	16	Water	14	0.24	0.11	-	-	-
562605	100	100	799	16	Water	14	0.24	0.11	-	-	-
562607A	150	150	1929	16	Water	58	0.40	0.20	-	-	-
Wafer Body EPDM Seals: 12-24 Volts AC or DC**											
562612	50	50	107	16	Water	16	-	-	1.20	3.08	1.40
562613	65	65	212	16	Water	16	-	-	1.20	3.08	1.40
562614	80	80	404	16	Water	16	-	-	1.20	3.08	1.40
562615	100	100	799	16	Water	16	-	-	1.20	3.08	1.40
562617A	150	150	1929	16	Water	58	-	-	2.50	-	2.00
Wafer Body NBR (Buna- N) Seals: 85-240 Volts AC or DC											
562621	50	50	107	16	Air, Oil, Vacuum	14	0.24	0.11	-	-	-
562622	65	65	212	16	Air, Oil, Vacuum	14	0.24	0.11	-	-	-
562623	80	80	404	16	Air, Oil, Vacuum	14	0.24	0.11	-	-	-
562624	100	100	799	16	Air, Oil, Vacuum	14	0.24	0.11	-	-	-
562626A	150	150	1929	16	Air, Oil, Vacuum	58	0.40	0.20	-	-	-
Wafer Body NBR (Buna- N) Seals: 12-24 Volts AC or DC**											
562631	50	50	107	16	Air, Oil, Vacuum	16	-	-	1.20	3.08	1.40
562632	65	65	212	16	Air, Oil, Vacuum	16	-	-	1.20	3.08	1.40
562633	80	80	404	16	Air, Oil, Vacuum	16	-	-	1.20	3.08	1.40
562634	100	100	799	16	Air, Oil, Vacuum	16	-	-	1.20	3.08	1.40
562636A	150	150	1929	16	Air, Oil, Vacuum	58	-	-	2.50	-	2.00

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

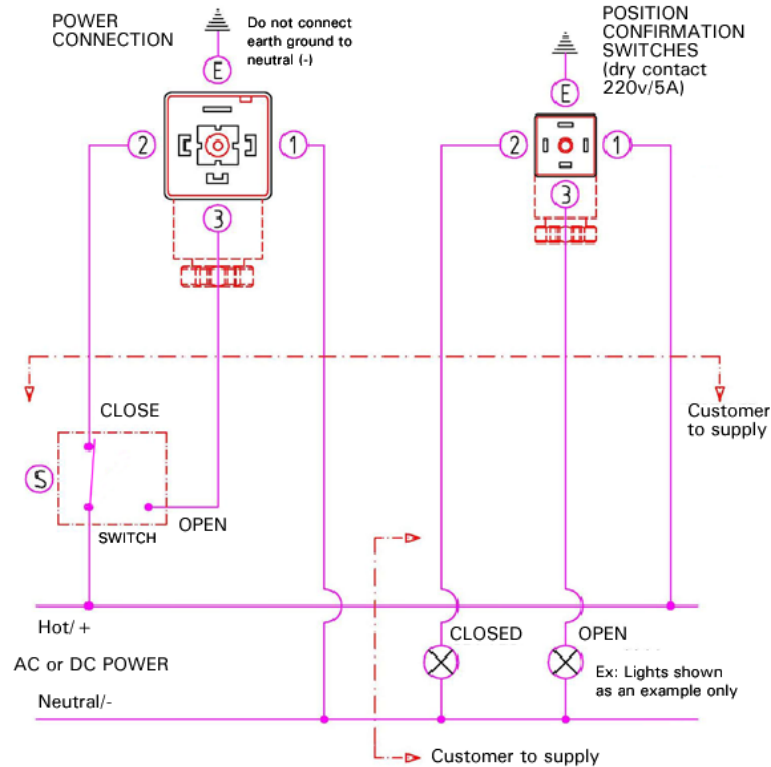
* Consult compatibility chart for other media. Suitable for vacuum up to 29 inHg.

** 12-24 volts for DN50 to DN100 sizes, 24 volts only for DN150 size

Electrical Wiring for On/Off and BSR Failsafe Versions

Voltage: 85-240V AC or DC, 12-24V AC or DC

Auto-voltage sensing



FUNCTION: ON-OFF VERSION

Power Connection

Power to PIN 1(N/-) and PIN 2 (H/+) closes the valve.

Power to PIN 1(N/-) and PIN 3 (H/+) opens the valve.

Stays in last known position with loss of power.

FUNCTION: ON-OFF with FAILSAFE BSR OPTION

Wiring is the same as standard ON-OFF version.

Power open, power close - trickle charges battery system in either open or closed position.

Actuator sent by battery power to pre-set failsafe position with power failure.

Actuator returns to pre-failure position on power resumption.

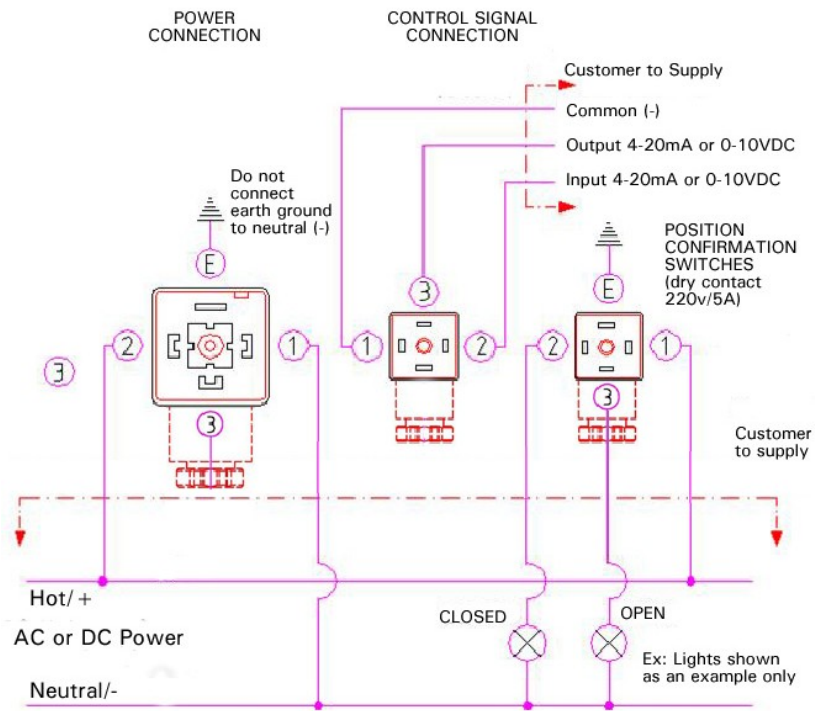
Factory preset to fail normally closed (optional normally open position).

Electrical Wiring for Actuators with DPS Digital Positioning System

Voltage: 85-240V AC or DC, 12-24V AC or DC

Control Signal: 4-20mA or 0-10V

Auto-voltage sensing



FUNCTION: Actuator with DPS- Digital Positioning System

Power open, power close - actuator movement controlled by input signal 4-20mA or 0-10VDC.

Standard operation: 4mA or 0V = actuator closed, 20mA or 10V = actuator open (can be reversed).

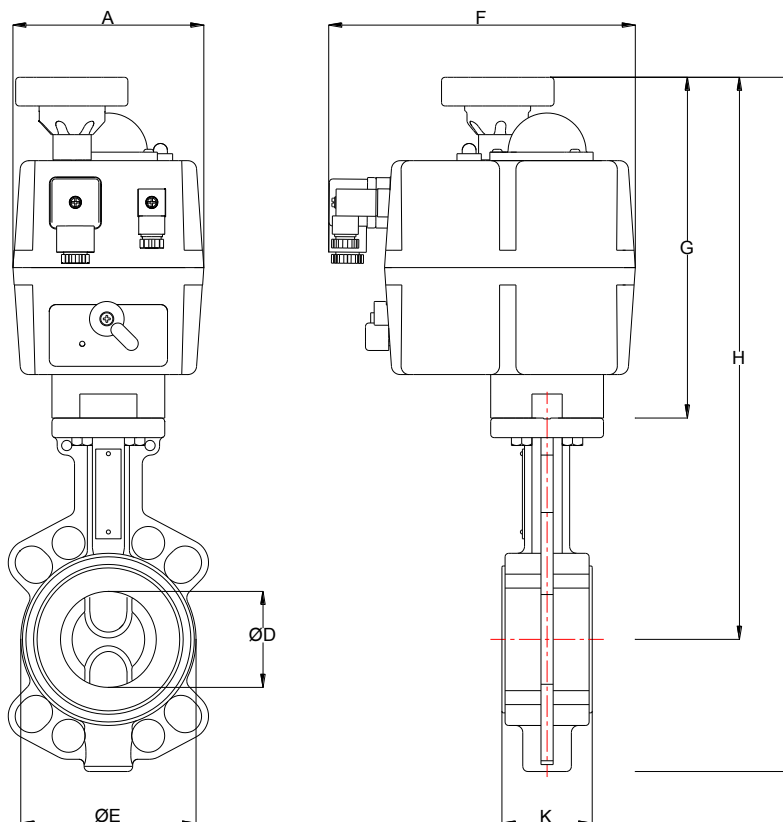
Actuator closes with loss of control signal, stays in last known position with loss of main power.

Output signal (in same format as supply signal) provided as standard.

Dimensions 2" to 6" Sizes

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	D	E	F	G	H	J	K	ISO	Weight
2 DN50	inch	4.33	1.97	3.90	6.97	7.72	12.68	15.67	1.81	F05	9.7 lb
	mm	110	50	99	177	196	322	398	46		4.4 kg
2-1/2 DN65	inch	4.33	2.56	4.46	6.97	7.72	12.99	16.22	1.93	F05	10.8 lb
	mm	110	65	113	177	196	330	412	49		4.9 kg
3 DN80	inch	4.33	3.15	5.07	6.97	7.72	13.90	17.68	1.93	F05	12.6 lb
	mm	110	80	129	177	196	353	449	49		5.7 kg
4 DN100	inch	4.33	3.94	6.17	6.97	7.72	14.29	18.78	2.19	F05/F07	16.1 lb
	mm	110	100	157	177	196	363	477	56		7.3 kg
6 DN150	inch	8.42	5.91	8.39	9.25	9.92	17.99	23.58	2.31	F07	28.3 lb
	mm	214	150	213	235	254	457	599	59		12.8 kg

Dimensions remain unchanged for all versions (On-Off, BSR failsafe & DPS positioning)