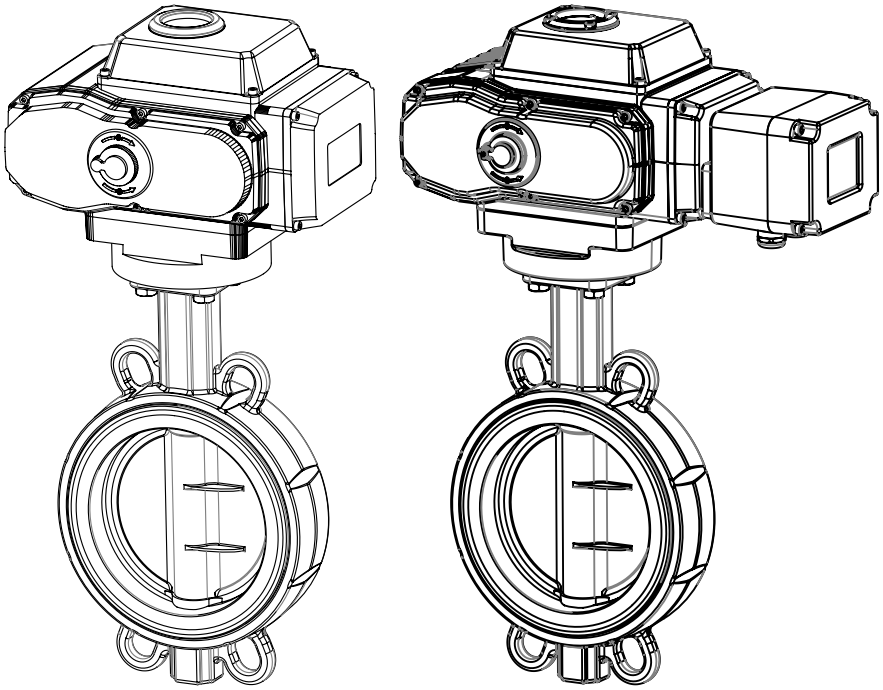
PO8-W SERIES:
WAFER TYPE SOFT SEATED BUTTERFLY VALVE

PO8-WE Series:
MOTORIZED BUTTERFLY VALVE WITH POE ACTUATOR

DESCRIPTION

The POV Motorized Wafer type Butterfly Valve are controlled by POE series fine and small electric actuators. The actuator has small volume, high integration, good protection and stable performance. It can be operated on site or controlled remotely. It is suitable for ball valve control with 90 degree rotation. The control functions include switch control, proportional position regulating control, intelligent control, etc. It can be operated manually due to its high voltage and flexible switching time.



ORDERING CODE

PO 8 9 7 □ — 1 □ □ □ — W E —

Seal Material	
2	EPDM
3	NBR
4	PTFE
V	VITON
H	HYPALON
Q	SILICON RUBBER
P	POLYURETHANE
F	Others

Body Material	
2	Ductile Cast Iron
3	A216 WCB
A	A351 CF8 / SS304
B	A351 CF8M / SS316
C	A351 CF3M / SS316L
E	Duplex S.S. 2205
F	Others

Disc Material	
2	DI c/w Nickel Coated
3	A216 WCB
A	A351 CF8 / SS304
B	A351 CF8M / SS316
C	A351 CF3M / SS316L
D	Duplex S.S. 2507
E	Duplex S.S. 2205
G	Super S.S. 1.4529
K	B148 C95400
N	B148 C95800
H	Halar Coated
R	Rubber Coated
L	Nylon Coated
F	Others

Pressure Rating	
2	PN10
3	PN16
A	CLASS150LB
E	JIS 5K
F	JIS 10K

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Actuator Control Model	
SN	ON-OFF Type
RN	Potentiometer Type
ZN	Regulating Type
FN	Intelligent Type

Voltage	
1	AC220V
2	AC110V
3	AC24V (Only available with SN and RN type)
4	DC24V
5	AC380V (Only available with SN and FN type)
6	Others (Special Customerized Voltage)

Example: PO8972-12A2-WE-ZN1: Motorized Butterfly Valve, Ductile Cast Iron Body, SS304 Disc, EPDM Seat, PN10, with POE Actuator ZN Regulating type AC220V.

SOFT SEATED BUTTERFLY VALVE

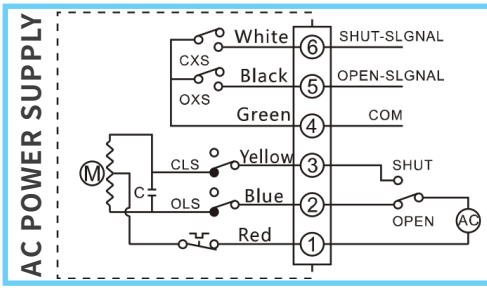
PO8-WE

PO8-WE Series:
MOTORIZED BUTTERFLY VALVE WITH POE ACTUATOR

FUNCTION

The POE Type actuator can be controlled by 4 models, as below model code:

1. SN Type: Open and Close the valve according to remote signal, with feedback of Open and Close position.



Valve open/close operation is realized by switch loop, and a set of powered position signal is output to signify the valve being full-open or full-close.

Wiring method:

1.Terminal 1 connects zero line of the power supply.

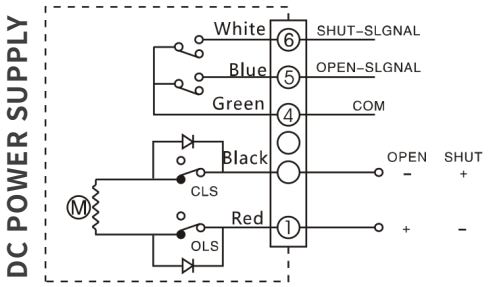
2.When power supply phase line connects to terminal 2, it runs "ON", and when it runs till travel switch OLS acts.

3.When power supply phase line connects to terminal 3, it runs "OFF" till travel switch CLS acts.

4.Terminal 4 is power-less contact point common terminal.

5.When "ON" runs in place, the terminal 5 outputs "full-open signal".

6.When "OFF" runs in place, the terminal 6 outputs "full-shut signal".



By switching over the positive/negative polarity of the external DC power supply, the valve "OPEN" or "SHUT" operation is realized, and meanwhile a set of power less contact point signal is output to signify the value being full-open or full-shut.

Wiring method:

1.When terminal 1 links to power supply positive pole, terminal 2 links to the power supply negative pole, and that is "ON" operation;

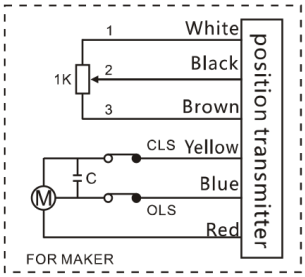
2.When terminal 1 links to power supply negative pole, terminal 2 links to the power supply positive pole, and that is "OFF" operation.

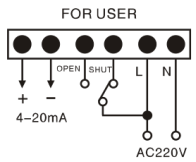
3.Terminal 4 is power-less contact point common terminal.

4.When "ON" runs in place, the terminal 5 outputs 'full-open signal".

5.When "OFF" runs in place, the terminal 6 outputs 'full-shut signal".

2. RN Type: Open and Close the valve according to remote signal, with Potentiometer to feedback position by 1-5K resistance.





The external computer or industrial instrument inputs a standard signal to control the open/close degree of the valve and meanwhile feedbacks the corres ponding standard signal.

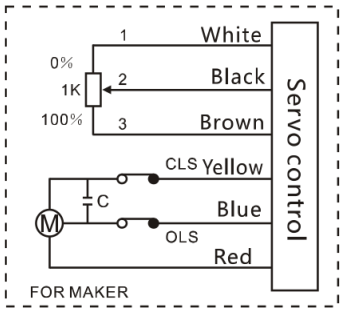
Wiring method:

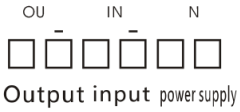
1.On the power input side "N" links to the zero line, and,"L" linksto phase conductors.

2.The "+" on the "external control" side links to the positive pole of the input signal, and "-" links to the negative pole of input signal.

3.The "+" on the "feedback" side links to the positive pole of the output signal, and "-" links to the negative pole of output signal.

3. ZN Type: Proportionally open valve in position 0° ~90° according to digital signal 4-20mA, and feedback 4-20mA position signal.





The external computer or industrial instrument inputs a standard signal to control the open/close degree of the valve and meanwhile feedbacks the corres ponding standard signal.

Wiring method:

1.On the power input side "N" links to the zero line, and "L" linksto phase conductors.

2.The "+ " on the "external control" side links to the positive pole of the input signal, and "-" links to the negative pole of input signal.

3.The "+" on the "feedback" side links to the positive pole of the output signal, and "-" links to the negative pole of output signal.

4. FN Type: Intelligent type can be equipped with LED screen, Control button, Over-torque protection, ESD protection.

a. Non-intrusive design, explosion and water proof, capacitance touch screen control, LED fully menu display.

b. Perfect electric potential breakdown, over torque and ESD protection functions.

c. Adjustment type/on-off type is in common use, 220VAC /380VAC is in common use.

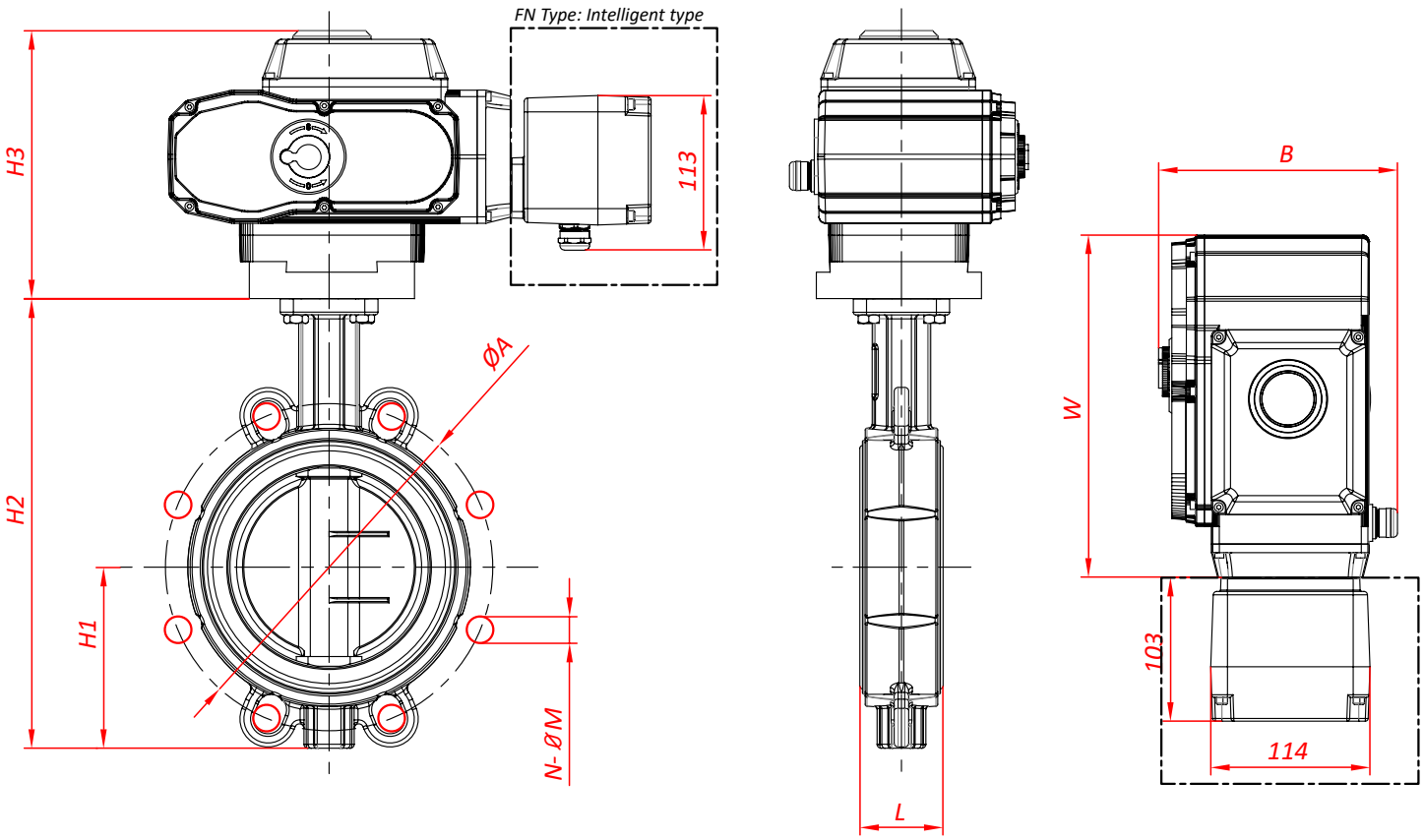
d. Output signal: Adjustment type DC4-20mA (DC1-5V), 0-20mA and other special specifications can customized, on-off type passive stem node signal.

SOFT SEATED BUTTERFLY VALVE

PO8–WE

PO8-WE Series:
MOTORIZED BUTTERFLY VALVE WITH POE ACTUATOR

DIMENSIONS



DIMENSIONS OF MOTORIZED BUTTERFLY VALVE WITH POE ACTUATOR IN RATING PN10

	Size	L	GB standard (PN10)		H1	H2	H3	W	B	POE Model
			ΦA	N-M						
PN10 PRESSURE RATING	DN25	33	85	4-12	46	94	137.5	165	140.5	POE-05
	DN32	33	100	4-16	46	94	137.5	165	140.5	POE-05
	DN40	33	110	4-16	53	94	137.5	165	140.5	POE-05
	DN50	42	125	4-16	55	140	137.5	165	140.5	POE-05
	DN65	44	145	4-16	64	153	137.5	165	140.5	POE-05
	DN80	44	160	8-16	73	159	137.5	165	140.5	POE-05
	DN100	50	180	8-16	88	182	168.5	211.5	154	POE-10
	DN125	56	210	8-16	102	190	168.5	211.5	154	POE-10
	DN150	56	240	8-20	115	203	203	259	186	POE-20
	DN200	60	295	8-20	145	245	203	259	186	POE-40
	DN250	68	350	12-20	184	273	203	259	186	POE-60
	DN300	78	400	12-20	207	311	229.5	283.5	193	POE-100
	DN350	78	460	16-20	247	363	229.5	283.5	193	POE-200

SOFT SEATED BUTTERFLY VALVE

PO8-WE

PO8-WE Series:
MOTORIZED BUTTERFLY VALVE WITH POE ACTUATOR

DIMENSIONS OF MOTORIZED BUTTERFLY VALVE WITH POE ACTUATOR IN RATING PN16

	Size	L	GB standard (PN16)		H1	H2	H3	W	B	POE Model
			ΦA	N-M						
PN16 PRESSURE RATING	DN25	33	85	4-12	46	94	137.5	165	140.5	POE-05
	DN32	33	100	4-16	46	94	137.5	165	140.5	POE-05
	DN40	33	110	4-16	53	94	137.5	165	140.5	POE-05
	DN50	42	125	4-16	55	140	137.5	165	140.5	POE-05
	DN65	44	145	4-16	64	153	137.5	165	140.5	POE-05
	DN80	44	160	8-16	73	159	137.5	165	140.5	POE-05
	DN100	50	180	8-16	88	182	168.5	211.5	154	POE-10
	DN125	56	210	8-16	102	190	168.5	211.5	154	POE-10
	DN150	56	240	8-20	115	203	203	259	186	POE-20
	DN200	60	295	12-20	145	245	203	259	186	POE-40
	DN250	68	355	12-24	184	273	203	259	186	POE-60
	DN300	78	410	12-24	207	311	229.5	283.5	193	POE-100
	DN350	78	470	16-24	247	363	229.5	283.5	193	POE-200

DIMENSIONS OF MOTORIZED BUTTERFLY VALVE WITH POE ACTUATOR IN RATING CLASS 150LBS

	Size	L	ANSI standard (CLASS 150LBS)		H1	H2	H3	W	B	POE Model
			ΦA	N-M						
CLASS 150LBS PRESSURE RATING	DN25	33	79.5	4-14	46	94	137.5	165	140.5	POE-05
	DN32	33	88.9	4-14	46	94	137.5	165	140.5	POE-05
	DN40	33	98.5	4-14	53	94	137.5	165	140.5	POE-05
	DN50	42	120.7	4-16	55	140	137.5	165	140.5	POE-05
	DN65	44	139.7	4-16	64	153	137.5	165	140.5	POE-05
	DN80	44	152.4	4-16	73	159	137.5	165	140.5	POE-05
	DN100	50	190.5	8-16	88	182	168.5	211.5	154	POE-10
	DN125	56	215.9	8-20	102	190	168.5	211.5	154	POE-10
	DN150	56	241.3	8-20	115	203	203	259	186	POE-20
	DN200	60	298.5	8-20	145	245	203	259	186	POE-40
	DN250	68	362	12-24	184	273	203	259	186	POE-60
	DN300	78	431.8	12-24	207	311	229.5	283.5	193	POE-100
	DN350	78	476.3	12-27	247	363	229.5	283.5	193	POE-200