

EQS

Butterfly Valve Actuator



Actuator Model

Model		EQS060	EQS100	EQS160	EQS240	EQS350	EQS500	EQS800	EQS1100	EQS1500	EQS2000	EQS3000
Nominal Torque (Nm)		60	100	160	240	350	500	800	1100	1500	2000	3000
Operating Time (sec)	50 Hz	12	21	26	26	31	31	39	39	93	117	117
	60 Hz	14	18	22	22	26	26	32	32	78	97	97
Rated Current (A) 110VAC	50 Hz	0.40	0.98	1.60	1.62	1.72	3.60	3.90	3.90	3.60	3.80	3.80
	60 Hz	0.39	1.10	1.70	1.72	1.80	3.90	4.20	4.30	3.90	4.20	4.20
Rated Current (A) 230VAC	50 Hz	0.20	0.52	0.85	0.87	0.92	1.50	2.05	2.15	1.50	2.05	2.15
	60 Hz	0.19	0.58	0.90	0.90	0.95	1.60	2.20	23.00	1.60	2.20	2.30
Motor Insulation Class		F	F	F	F	F	F	F	F	F	F	F
Motor Power (W)		40	15	40	40	40	90	180	180	90	180	180
Weight (kg)		3	7	15	15	20	20	25	25	65	75	75
No. of hand wheel turns		8	10	12	12	14	14	17	17	65	70	70

Recommended Actuator Model Selection for Butterfly Valve

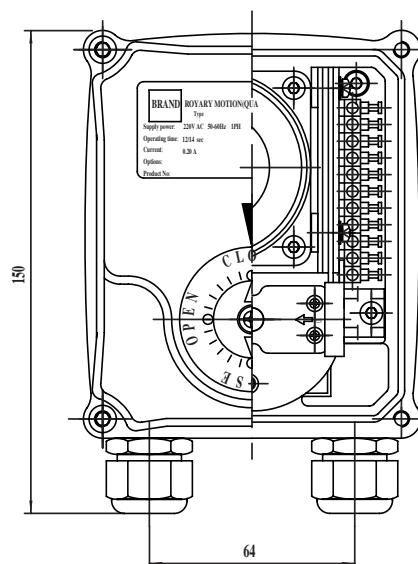
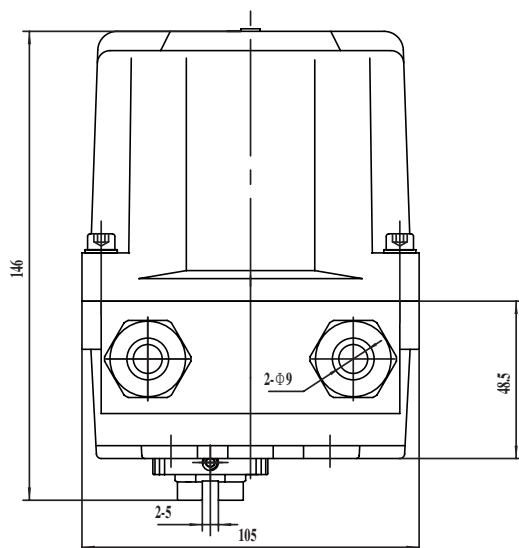
Valve Size DN	On/Off Actuator Model	Modulating Actuator Model	CV @ 90°
50	EQS060	EQS160	138
65	EQS060	EQS160	225
80	EQS060	EQS160	309
100	EQS100	EQS160	612
125	EQS100	EQS160	1043
150	EQS160	EQS160	1611
200	EQS240	EQS240	3199
250	EQS350	EQS350	5447
300	EQS500	EQS500	8415
350	EQS800	EQS800	12156
400	EQS1100	EQS1100	16716
450	EQS1500	EQS1500	22140
500	EQS2000	EQS2000	28467
600	EQS3000	EQS3000	43979

Technical Specification

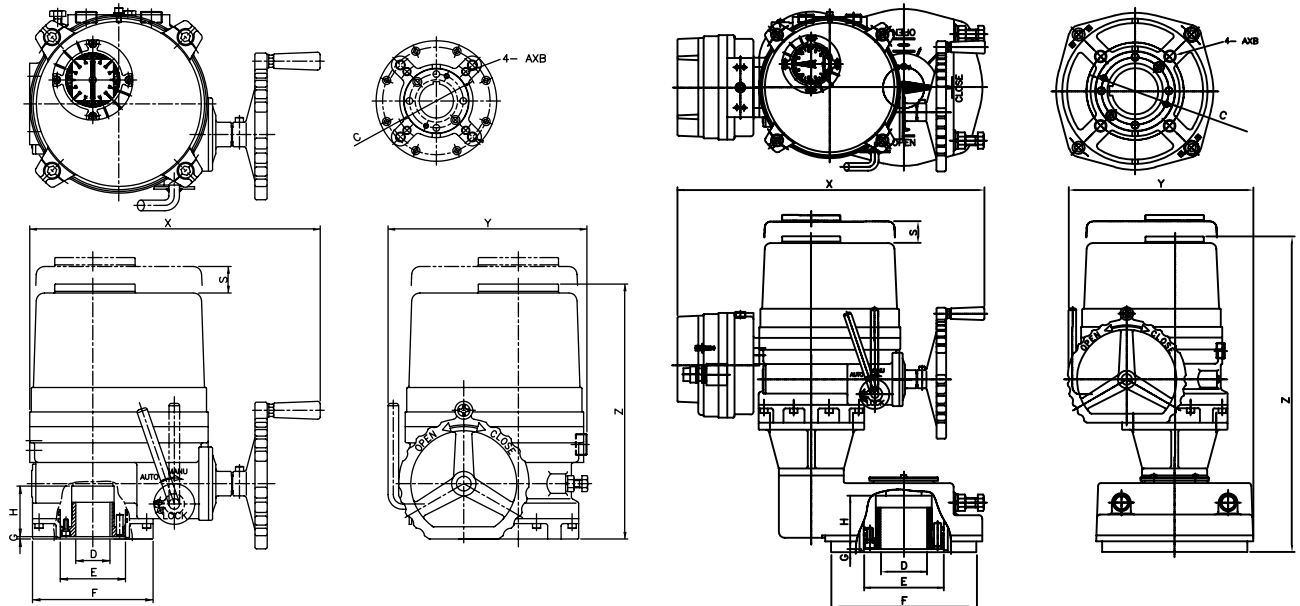
Enclosure	Weatherproof IP67, NAMUR 4 and 6, (IP68 option) O-ring sealed
Main power supply	110 / 220-230V AC / 1Ph / 50 / 60Hz ± 10%, 380 / 400 / 440 / V AC / 3Ph / 50 / 60Hz ± 10%
Control power supply	110 / 220-230V AC / 1Ph / 50 60Hz ±
Duty cycle (on-off)	S2 : 10Min - 30Min / S4 : 20 - 50%
Duty cycle (modulating)	S4 : 30 - 50%, 300 - 1200 start / Hour
Motor	Squirrel Caged Induction motor Class F
Limit switches	2 each for open and close (SPDT 250VAC / 10A rating)
Torque switches	1 each for open and close (SPDT 250VAC / 10A rating)
Stall protection / set temperature	Built in Thermal protection, open 160°C, close 07°C ± 15°C
Travel angle	90° ± 5° (0° - 100°)
Position indicator	Continuous mechanical indicator
Handwheel	Yes
Self locking	Provided double worm gearing (no brake)
Mechanical stopper	1 each for each travel end (open and close), external and adjustable
Heater	5W (110 / 220-230VAC) for Anti-condensation
Cable entries	2 x PF 3/4"
Ambient temperature	Basic type : -20°C - +70°C option : -40°C - +100°C
Ambient humidity	10% RH Min, 100% RH Max, Non-Condensing
Anti vibration	XYZ 10g 02 - 34Hz. 30 Min
External coating	Dry power (Polyester)

Dimensions (mm)

EQS 060



EQS 100-3000



EQS 100-1100

EQS 1500-3000

Actuator Model

Type	EQS100	EQS160	EQS240	EQS350	EQS500	EQS800	EQS1100	EQS1500	EQS2000	EQS3000
Flange	F07	F07	F07	F10	F10	F12	F12	F16	F16	F16
ISO5211	-	F10	F10	F12	F12	F14	F14	-	-	-
C	Ø 70	Ø 70	Ø 70	Ø 102	Ø 102	Ø 125	Ø 125	Ø 165	Ø 165	Ø 165
	-	Ø 102	Ø 102	Ø 125	Ø 125	Ø 140	Ø 140	-	-	-
A	M8	M8/M10	M8/M10	M10/M12	M10/M12	M12/M16	M12/M16	-	-	-
B	14	14/17	14/17	17/21	17/21	20/25	20/25	32	32	32
D (Key)	Ø 22	Ø 25	Ø 25	Ø 40	Ø 40	Ø 48	Ø 48	Ø 75	Ø 75	Ø 75
D (Squ.)	□ 20	□ 23	□ 23	□ 34	□ 34	□ 40	□ 40	□ 64	□ 64	□ 64
E	Ø 50	Ø 58.5	Ø 58.5	Ø 80	Ø 80	Ø 95	Ø 95	Ø 135	Ø 135	Ø 135
F	Ø 88	Ø 125	Ø 125	Ø 148	Ø 148	Ø 178	Ø 178	Ø 245	Ø 245	Ø 245
G	3	3	3	3	3	3	3	5	5	5
H	37	57	57	62	62	67	67	90	90	90
S	100	115	115	145	145	170	170	145	170	170
X	258	338	338	357	357	380	380	368	513	513
Y	172	229	229	244	244	287	287	293	312	312
Z	245	284	284	315	315	313	313	506	531	531



EQS

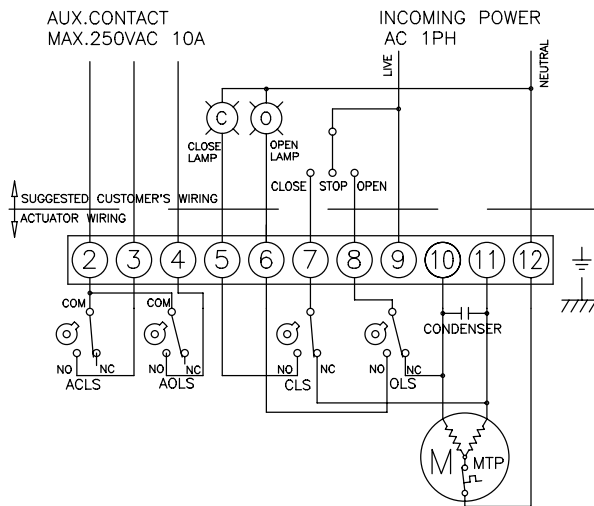
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Wiring Diagrams

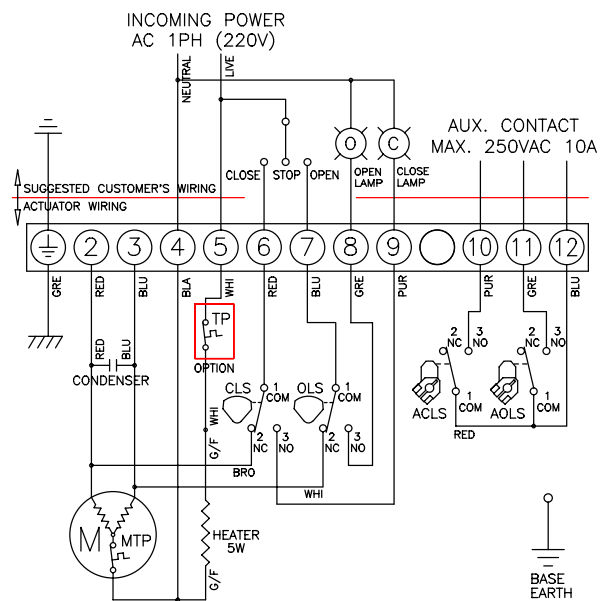
EQS 060

110/220VAC 50/60Hz, 1PH (On/Off)



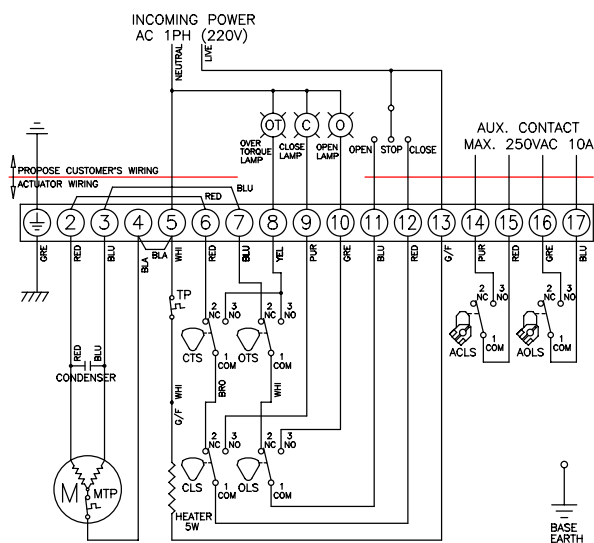
EQS 100

110/220VAC 50/60Hz, 1PH (On/Off)



EQS 160-3000

110/220VAC 50/60Hz, 1PH (On/Off)



EQS 160-3000

110/220VAC 50/60Hz, 1PH (Modulating)

