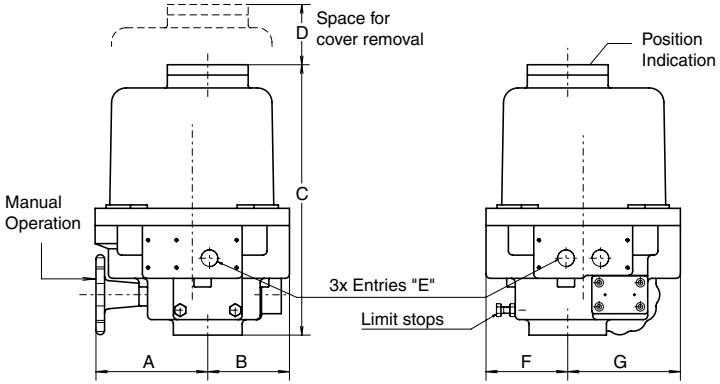
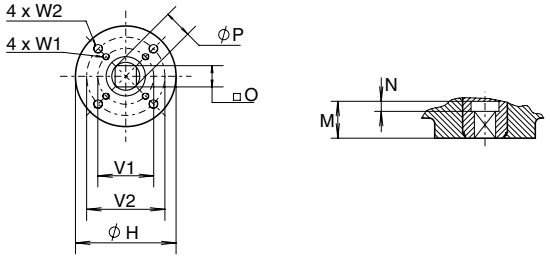
DIMENSIONS AND TECHNICAL DETAILS - ELECTRIC ACTUATOR





Dim in inches	EL 35	EL100	EL150	EL200	EL350	EL500	EL800
A	5.12	5.31	5.31	7.28	7.28	7.68	6.97
B	2.36	3.94	3.94	4.29	4.29	5.04	5.04
C	10.83	11.42	11.50	12.40	12.40	14.96	14.96
D	5.71	6.50	6.50	6.50	6.50	6.50	6.30
E	1/2"NPT	1/2"NPT	1/2"NPT	3/4"NPT	3/4"NPT	3/4"NPT	3/4"NPT
F	2.76	3.03	3.03	3.78	3.78	4.84	4.84
G	3.74	4.72	4.72	5.53	5.53	6.54	6.54
H	3.54	3.54	3.54	4.92	4.92	4.92	4.92
M	1.08	1.30	1.30	1.30	1.30	1.77	1.77
N	0.35	0.35	0.35	0.35	0.35	-	-
O max.	0.556	0.752	0.752	0.752	0.752	1.068	1.068
O min.	0.551	0.748	0.748	0.748	0.748	1.063	1.063
P	0.709	0.984	0.984	0.984	0.984	1.417	1.417
V1	1.969	1.969	1.969	2.756	2.756	4.016	4.921
V2	2.756	2.756	2.756	4.016	4.016	-	-
W1	1/4-20 x .47	1/4-20 x .47	1/4-20 x .47	5/16-18 x .59	5/16-18 x .59	3/8-16 x .71	1/2-13 x .79
W2	5/16-18 x .59	5/16-18 x .59	5/16-18 x .59	3/8-16 x .71	3/8-16 x .71	-	-

Description

Type EL actuators use worm and wormwheel reduction gearing to provide tight positioning control. The self locking feature is necessary for controlling larger valves, particularly butterfly types.

The explosion proof housing consists of two aluminum castings, this contains the drive motor and worm gear assembly, together with the anti-condensation heater and main terminal strip.

EL actuators take the full range of control options, they have handwheel geared manual overrides, mechanical end position stops and torque switches on all the larger sizes. Visual position indication is by a window in the top cover.

General Specification

Nominal Rotation	: 90° - factory set to ±3°
	: Adjustable by limit switches 10° to 320°
Explosion proof	: Class I / Div. I, group C + D
	: Class II/III / Div. I, group E, F + G
	: FM Hazardous area classification is compliant to NEMA 7C and NEMA 7D ratings
FM Approval	: J.1.OTOA7.AE (3615)
Temperature	: -4° to +158°F
Connections	: By 12 and/or 16 point internal terminal strip
Finish	: Two component polyurethane coating
Life	: 50,000 operations minimum
Heather	: 10 Watt
Voltages	: 24VDC or 24VAC
- Single phase	: 110-130VAC 50/60Hz
	: 220-280VAC 50/60Hz
- Three phase	: 380-460VAC 50/60Hz
Stall protection	: By motor thermostat (all sizes)
	: By thermostat and by torque switches (EL 100-800)
Identification	: Example: EL 35 FM

Minimum customer switch or contactor rating 16Amp.

Performance		EL 35	EL100	EL150	EL200	EL350	EL500	EL800
Torque (In.lb.)	**Break**	487	885	1328	1770	3098	4425	7081
	Run	177	310	469	620	1089	1549	2478
Speed (Sec.)	**50Hz**	6	7.5	9	13.5	22	25.5	25.5
Current (A)	**220V AC**	0.6	1.7	1.7	1.7	1.7	1.7	2.3
(Max.)	**110V AC**	1.1	2.9	2.9	2.9	2.9	2.9	4.5
Power (W)	**220V AC**	72	200	200	200	200	200	305
Switches-Indication		4x16A	4x16A	4x16A	4x16A	4x16A	4x16A	4x16A
Torque SPDT at 110/240VAC)		-	2x16A	2x16A	2x16A	2x16A	2x16A	2x16A
Weight (lb.)		16	27	27	41	44	61	69
Duty rating		30%	30%	30%	30%	30%	30%	30%

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