

EL-O-MATIC™

PNEUMATIC ACTUATORS:



EL-O-Matic Pneumatic actuators are powerful and compact double rack and pinion units for use with ball, butterfly and plug valves and any device requiring accurate and dependable quarter turn rotary motion.

The use of high grade steel and aluminium components together with EL-O-Matic's patented 3 point piston support provides a tough reliable unit for the automation of today's high performance industrial valves. Modern synthetic bearings ensure no metallic contact between moving components.

Spring return actuators incorporate the multiple spring concept for maximum flexibility, they are also "field reverseable". Safety features include anti-blow out spindle and a spring retaining system which ensures no spring tension on disassembly.

A wide range of control options are available to cover each and every industrial application.

'E' Series actuators incorporate a body of cast aluminium and have pistons where the rack teeth are precision machined on to the aluminium casting. Spring return versions have a maximum of 6 springs, 3 in each end cap assembled as a concentric stack.

'P' Series actuators cover the large end of the torque range. These all incorporate a body of cast aluminium and have steel for the rack on pinion drive. Spring return versions have a maximum of 14 springs 7 in each end cap assembled within a hexagon pattern.

All actuators have mounting flanges and drives to ISO 5211. Mounting kits can be provided for most of the worlds quarter turn valves.

OPTIONS



- Double Acting Actuator
- Single Acting Actuator
- Actuator with steel housing
- Actuator with 180° rotation
- Three position Actuator
- Limit stops in the end caps
- Limit stop with Limit stop plate.
- Actuator with $\pm 3^\circ$ extra travel

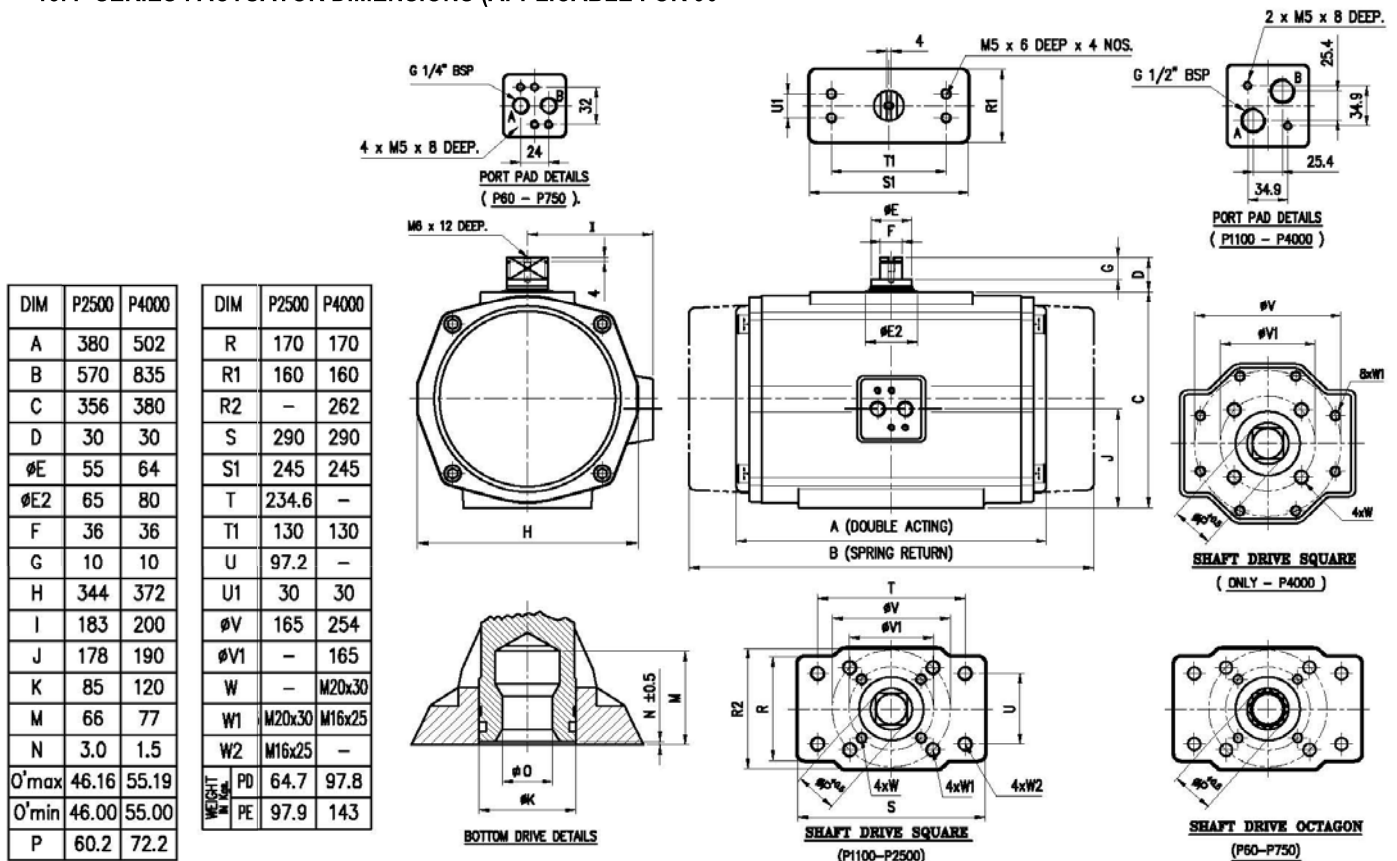
SPECIFICATION:

Pressure : Up to 8 bar
Temperature : -20° to 80°C
Media : Air (dry or lubricated)
 Non corrosive gas or light hydraulic oil
Construction : Suitable for indoor or outdoor installation
Material : Housing - Aluminium Alloy
Drive Shaft : Carbon Steel

Finish : Two coat polyurethane
Rotation (Standard) : Counter clockwise to open with port 'A' pressurised Spring return Actuators air fail to close clockwise.
Movement (Standard) : 91.5° from -0.5° to 91° counterclockwise.
Lubrication : Factory lubricated for the normal life of Actuators
Life : 5,00,000 operations minimum

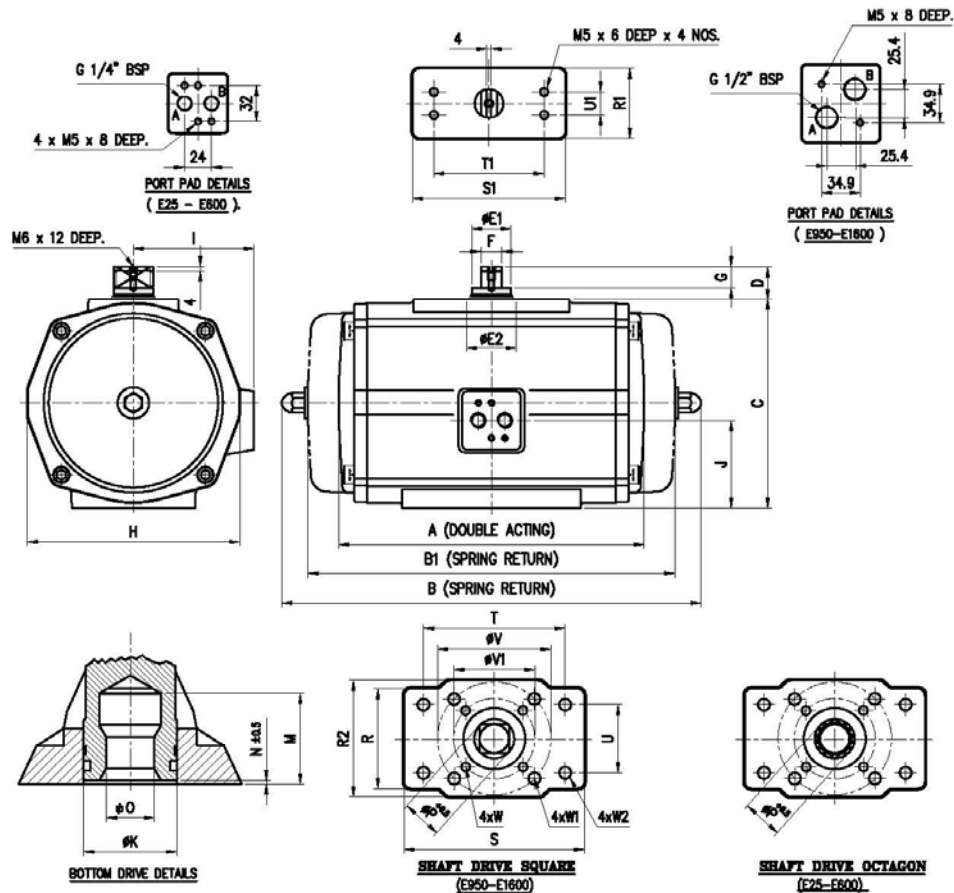
ACTUATOR TORQUE - AT 6 BAR

MODEL			E12	E25	E40	E100	E200	E350	E600	E950	E1600	P2500	P4000
DA TORQUE (Nm)			14.6	27	51	115	251	436	741	1107	1829	2935	4955
SR TORQUE (Nm)	AIR STROKE	START	10.3	13	25	58	125	206	364	554	907	2086	3240
		END	7.5	4	8	21	41	63	114	174	305	1338	1660
	SPRING STROKE	START	7.2	21	40	88	196	347	584	869	1421	1495	3084
		END	4.6	13	25	55	123	223	367	538	897	764	1544

13. P SERIES : ACTUATOR DIMENSIONS (APPLICABLE FOR 90

NOTE : 1. FLANGE & SQUARE DRIVE TO ISO 5211.
 2. TOP & SOLENOID FLANGE TO VDI/VDE 3845 (NAMUR).
 3. FOR P1100 TO P4000 PORT PAD IS NON NAMUR.

15. E SERIES – ACTUATOR DIMENSIONS:



DIM	E25	E40	E100	E200	E350	E600	E950	E1600
A	135	147	176	237	260	331	366	446
B	178	204	267	360	410	—	—	—
B1	—	—	—	—	—	417	460	565
C	80	94	118	143	181	220	259	297
D	20	20	20	20	20	30	30	30
ØE1	16	22	22	36	36	55	55	64
ØE2	23	30	30	45	45	65	65	75
F	10	14	14	19	19	36	36	36
G	12	12	12	12	10	10	10	10
H	74	86	108	128	173	207	231	265
I	46	53	63	73	95	113	126	142
J	32	33.5	45	50.5	73	84.5	106	120.5
K	24	33	38	55	55	68	75	95
M	27	27	27	31	38	38	51	66
N	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5
O'max	11.11	14.11	19.13	22.13	27.13	27.13	36.16	46.16
O'min	11.00	14.00	19.00	22.00	27.00	27.00	36.00	46.00

DIM	E25	E40	E100	E200	E350	E600	E950	E1600
P	14.1	18.1	25.2	28.2	36.2	36.2	48.2	60.2
R	52	65	70	90	114	124	130	132
R1	50	50	60	60	60	90	90	125
R2	—	—	—	—	—	—	—	154
S	52	65	70	90	114	124	142	280
S1	100	100	100	100	100	170	170	210
T	—	—	—	—	—	—	—	234.6
T1	80	80	80	80	80	130	130	130
U	—	—	—	—	—	—	—	97.2
W	—	M6x9	M6x9	M8x13	M8x13	M10x16	M10x16	M20x30
W1	M6x9	M8x13	M8x13	M10x16	M10x16	M12x16	M16x20	—
W2	—	—	—	—	—	—	—	M16x25
U1	30	30	30	30	30	30	30	30
ØV	50	70	70	102	102	125	140	—
ØV1	—	50	50	70	70	102	102	165
ED	1.3	2.0	3.7	6.88	10.4	19.4	26.4	42.7
ES	1.7	2.6	5.0	10.34	16.9	27.6	38.6	65.8

- NOTE : 1. FLANGE & SQUIRE DRIVE TO ISO 5211.
 2. TOP & SOLENOID FLANGE TO VDI/VDE 3845 (NAMUR).
 3. FOR E950 & E1600 PORT PAD IS NON NAMUR.