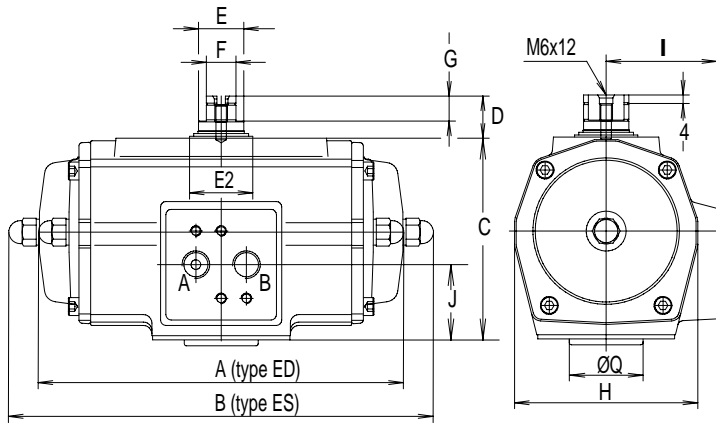


DATASHEET

type ES 950 / ED 950 (DIN version)

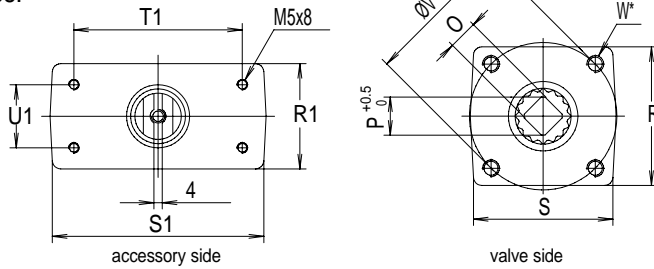


working principle
pneumatic piston type rack and pinion actuator;
quarter turn (0° to 90°)

general

- construction : suitable for indoor and outdoor installation
- bore : 200 mm
- stroke : 50,3 mm
- weight :
 - ES : 38,6 kg
 - ED : 26,4 kg
- air consumption :
 - port A : 4,7 l
 - port B : 4,9 l
- air connection : G1/4"
- pressure range :
 - ES : 3 to 8 bar
 - ED : 0,2 to 8 bar
- operating media : air, dry or lubricated or non-corrosive gas
- temperature : -20°C bis +80°C
- rotation angle : 90° (+1°; -10°)
- coating : polyester non-TGIC based powder

flanges:



notes

- air consumption is the actual free air volume at 1 atm
- flange and square drive to DIN 3337 or DIN ISO 5211
- solenoid mounting interface acc. to VDI/VDE 3845 (according to NAMUR)
- optional temperature range -40°C to +80°C or -20°C to +120°C
- other inserts optional

mounting options

code	mounting direction	action at spring tension (ES) or B-port prepressurized (ED)	rotation when A-port prepressurized (view from above)
A	in line	closing	ccw
B	across line	closing	ccw
C	across line	opening	cw
D	in line	opening	cw

for further information see document 1.504 (ES) or 1.503 (ED)

dimensions in mm

A	B	C	D	E	E2	F	G	H	I	J	Omax	Omin
424	517	259	30	55	65	36	10	231	126	105,5	36,16	36,00

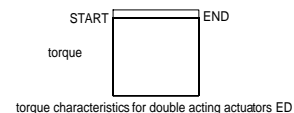
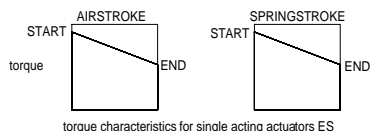
P	Q	R	R1	S	S1	T1	U1	V	W
48,2	100	130	90	142	170	130	30	140	M16x25

*: optional mounting pattern F10 via exchange of centering plate --> V = 102 and W = M10x16

torque in Nm

ES 950		airstroke														springstroke			
		3		3,5		4		4,5		5		5,5		6				7	
air pressure barg	spring set	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
torque (Nm)	3	272	82	371	181	469	279	568	378	666	476	765	575	863	673	1060	870	434	269
	4			268	14	366	113	465	211	563	310	662	408	760	507	957	704	579	359
	5									460	143	559	242	657	340	854	537	724	448
	6											456	75	554	174	751	371	869	538

ED 950		airstroke								springstroke	
air pressure barg	torque (Nm)	2	3	3,5	4	4,5	5	5,5	6	7	
		363	549	642	735	828	921	1014	1107	1293	



European Directives

- PED : suitable for use with group 2 gases according to Pressure Equipment Directive 97/23/EC
- ATEX : II 2 GD c IIC TX

- to determine the configuration code please see document 1.102.10
- for further information regarding materials, certifications and additional execution please contact your regional sales office
- a complete global listing can be found on www.El-O-Matic.com

VALVE AUTOMATION
DIVISION

EL-O-MATIC
www.el-o-matic.com

Nr.	1.106.0950	Date:	01.03.2012
All rights reserved			