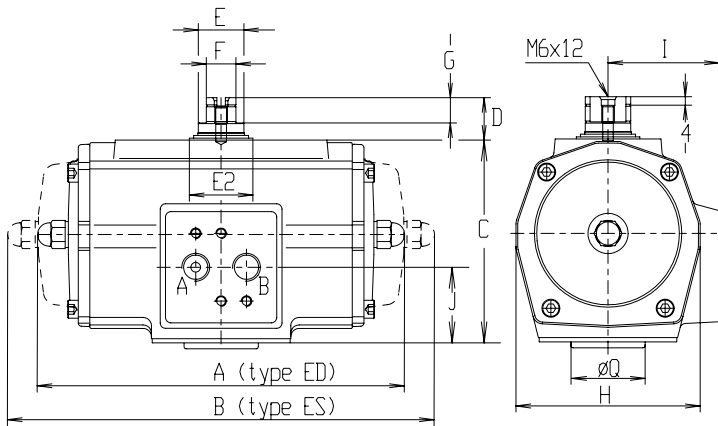


DATASHEET

type ES 350 / ED 350 (DIN version)



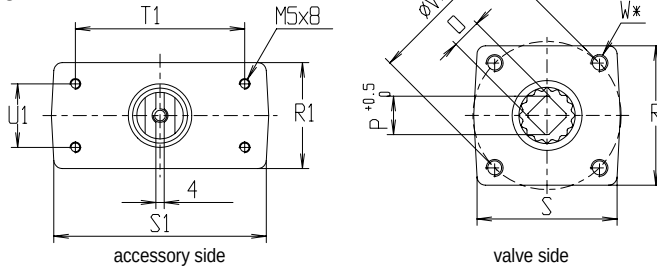
working principle

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

general

construction	: suitable for indoor and outdoor installation
bore	: 145 mm
stroke	: 37,7 mm
weight	ES : 16,9 kg ED : 10,4 kg
air consumption	port A : 1,8 l port B : 1,9 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 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 preassurized (ED)	rotation when A-port preassurized (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)

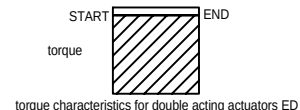
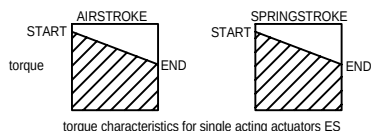
dimensions in mm

A	B	C	D	E	E2	F	G	H	I	J	Omax	Omin
305	387	181	20	36	45	19	12	173	95	73	22,13	22,00
P	Q	R	R1	S	S1	T1	U1	V	W			
28,2	70	114	60	114	100	80	30	102	M10x16			

*: optional mounting pattern F07 via exchange of centering plate --> V = 70 and W = M8x13

torque in Nm

ES 350		airstroke																springstroke	
air pressure barg		3		3,5		4		4,5		5		5,5		6		7			
spring set		START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
torque (Nm)	3	101	30	140	68	179	107	217	146	256	185	295	224	334	263	412	340	174	112
	4					136	41	175	80	214	118	252	157	291	196	369	274	232	149
	5									171	52	210	91	249	130	326	207	289	186
	6													206	63	283	141	347	223
ED 350																			
air pressure barg		2		3		3,5		4		4,5		5		5,5		6		7	
torque (Nm)		143		216		253		290		326		363		400		436		510	



European Directives

PED : suitable for use with group 2 gases according to Pressure Equipment Directive 97/23/EC
ATEX : II 2 GD c T120°C, suitable for use in (ATEX) classified Zones 1 & 2 (Gases) and/or 21 & 22 (Dust)

- 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

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