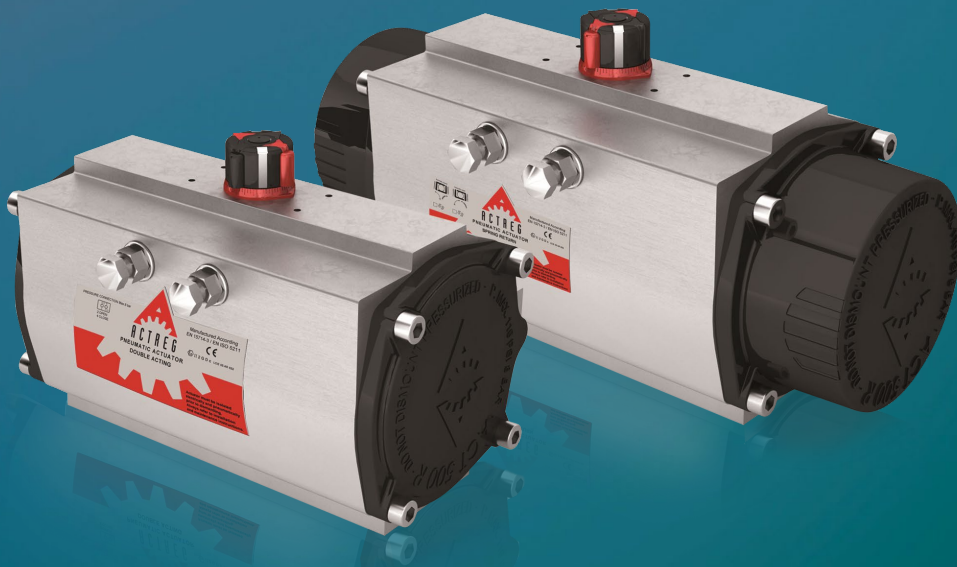




PNEUMATIC ACTUATORS RACK & PINION ACT - 1750

TECHNICAL FEATURES



GENERAL CHARACTERISTICS

DESIGN STANDARDS	CERTIFICATES
Conformity with 2014/68/EU Pressure equipment device (PED) and 2006/42/EC European Machinery Directive	ATEX - Ex II 2 G D
Conformity with EN 15714-3 Pneumatic part-turn actuators for industrial valves	SIL Capability certification SC3
Mounting devices according to NAMUR VDI / VDE 3845 Std.	Quality certification ISO 9001 / Environmental certification ISO 14001
Valve connection according to ISO 5211	IP68 – 1.5m / 30 min.

Max. Pressure	Rotation	Screw stroke Adjustment	Piston Ø (mm)	Air Volume (L)		Stroke Time (sec) Tested at 6 bar. ASR with 14 springs.		Seals material acc. to operating temperature (°C)		
				Opening	Closing	Opening	Closing	STD (standard)	H (high temp.)	L (low temp.)
8 bar	90° ±5°	For 1° Need ¼ Turn	210	9,8	9,3	ADA 1,8 ASR 2,8	ADA 2,0 ASR 3,2	NBR O-Ring (-30° to +100°)	FKM O-Ring (-15° to +150°)	Silicone O-Ring (-60° to +80°)

ACTUATOR CODIFICATION

ASR	1750	F14	S14	FC	-	L	F38	-	K	-	C5	-	RALXXXX
1	2	3	4	5		6	7	8	9		10		

ACTUATOR BASIC FEATURES	ACTUATOR OPTIONAL FEATURES
1 – Acting type ASR – Single Acting ADA – Double Acting	6 – Operating range temperature Std – (-30 / 100) °C H (high) – (-15 / 150) °C L (low) – (-40 / 80) °C E (extreme low) – (-60 / 80) °C
2 – Actuator size: 1750 – for ASR 1750 – for ADA	7 – Air inlet connection not standard F38 – Air inlet 3/8" G F12 – Air inlet 1/2" G F34 – Air inlet 3/4" G
3 – Flange connection F12 acc. to ISO 5211 F14 acc. to ISO 5211	8 – Optional features (all combinable) K – Locking device R – Stroke regulation U – Imperial threads
4 – Number of springs (only for ASR): S06 / 08 / 10 / 12 / 14 – for ASR 1750	9 – Corrosive coating protection Std – Protection C3 C4 – Protection C4 C5 – Protection C5
5 – Fail Position (only for ASR): FC – Fail Close FO – Fail Open	10 – Painting RAL Std – End caps painted RAL 9005 / Body not painted RALXXXX – RAL specified by the customer

DOUBLE ACTING ACTUATOR "ADA" TORQUE OUTPUT IN Nm

TYPE	Output Torque For Double Acting in Nm																		Weight (Kg)		
	3 bar		3,5 bar		4 bar		4,5 bar		5 bar		5,5 bar		6 bar		6,5 bar		7 bar			8 bar	
	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°		0°	90°
ADA	707		824		942		1060		1178		1295		1413		1531		1649		1884		32,5

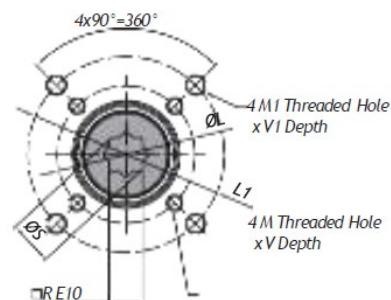
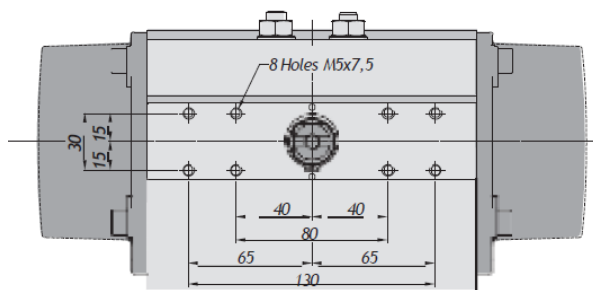
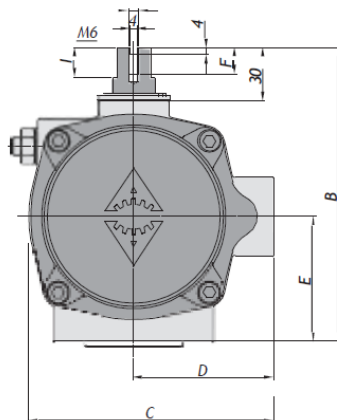
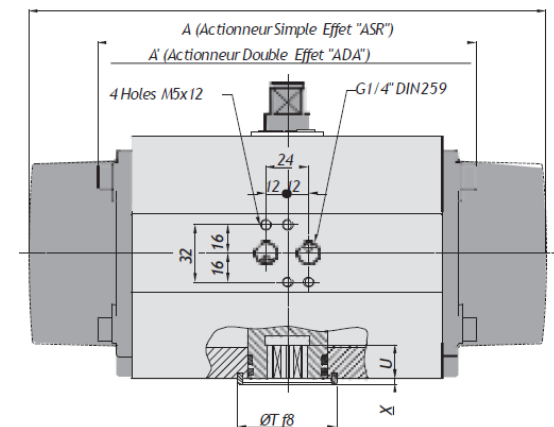
SPRING RETURN ACTUATOR "ASR" TORQUE OUTPUT IN Nm

TYPE	Output Torque for Spring Return in Nm																				Spring		Weight (Kg)
Pressure	3 bar		3,5 bar		4 bar		4,5 bar		5 bar		5,5 bar		6 bar		6,5 bar		7 bar		8 bar		stroke		
Position	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	END	START	
S06	477	349	595	466	712	584	830	702	948	820	1066	937	1183	1055	1301	1173	1419	1291	1654	1526	270	421	39,3
S08	400	229	518	347	636	465	754	582	871	700	989	818	1107	936	1225	1053	1342	1171	1578	1407	360	562	41,0
S10			441	228	559	345	677	463	795	581	912	699	1030	816	1148	934	1266	1052	1501	1287	451	702	42,7
S12							600	344	718	461	836	579	954	697	1071	815	1189	933	1425	1168	541	843	44,4
S14									642	342	759	460	877	578	995	695	1113	813	1348	1049	631	983	46,0

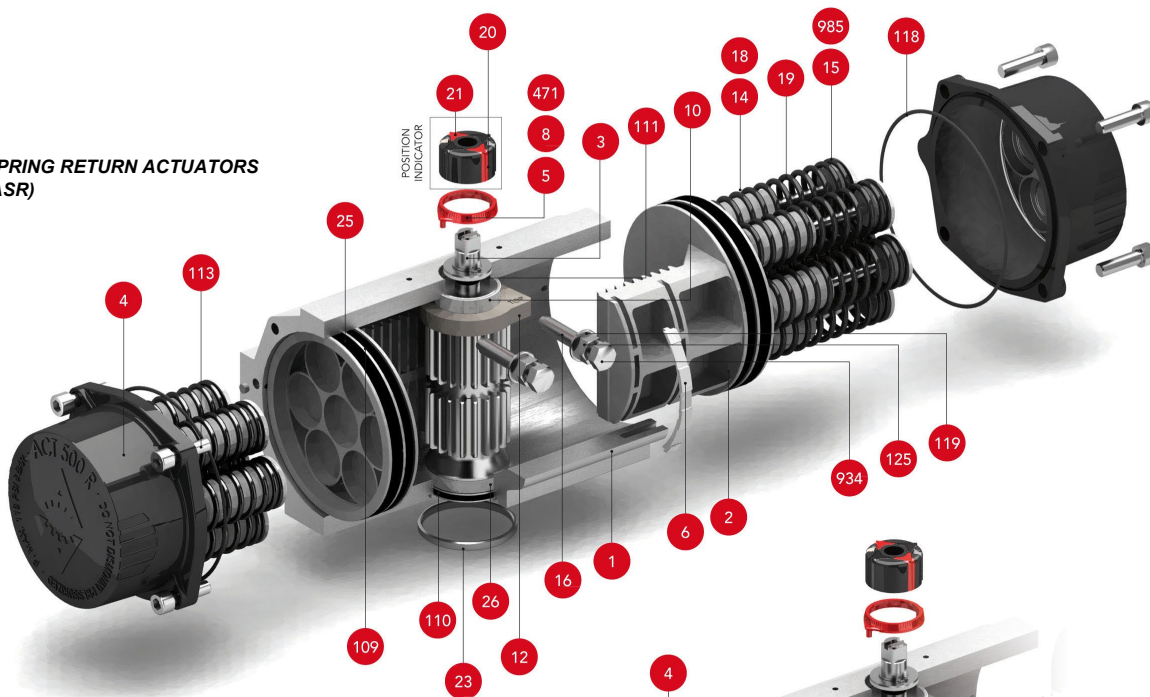
DIMENSIONS

A	A'	B	C	D	E	F	I	R	ØS	ISO 5211	ØL	M x V	ISO 5211	ØL1	M1 x V1	ØT	X	U
601	461	280	242,5	131	130	16	18,6	36	48,5	F12	125	M12x20	-	-	-	100	4	50
601	461	280	242,5	131	130	16	18,6	36	48,5	F14	140	M16x26	-	-	-	100	4	50

(*) Dimensions in mm.



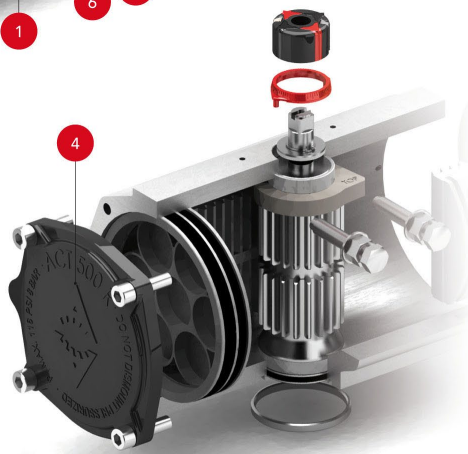
SPRING RETURN ACTUATORS (ASR)



POSITION INDICATOR



DOUBLE ACTING ACTUATOR (ADA)



PARTS & MATERIALS

Item	Description	Material	Spare parts	Item	Description	Material	Spare parts
1	Body	Aluminium Hard Anodized	-	23	Centering Ring	Nickel Plated Carbon Steel	-
2	Piston	Aluminium	-	24	Plug Air Stop	NBR / FKM / Silicone	2
3	Pinion	Nickel Plated Carbon Steel	-	25	Slide Guide	Polyamide PA 6.6 + 30% G.F.	2
4	End Caps	Aluminium Epoxy Coated	-	26	Lower Pinion Bearing	Hostalen RCH 1000	1
5	Soft Pinion Washer	Polyamide PA 6.6	1	109	O-Ring – Piston	NBR / FKM / Silicone	2
6	Slide piston	Polyamide PA 6.6 + 30% G.F.	2	110	O-Ring – Base pinion	NBR / FKM / Silicone	1
8	Pinion Washer	Stainless Steel	-	111	O-Ring – Top pinion	NBR / FKM / Silicone	1
10	Upper Pinion Bearing	Hostalen RCH 1000	1	113	Bolt	Stainless Steel	-
12	Stop	ASTM A-105	-	118	O-Ring – End cap	NBR / FKM / Silicone	2
14	(*) Spring Long Support	Polyamide PA 6.6	-	119	O-Ring – Adjusting screw	NBR / FKM / Silicone	2
15	(*) Spring Short Support	Polyamide PA 6.6	-	125	Washer	Stainless Steel	-
16	Leveling Screw	Stainless Steel	-	913	Set Screw	Stainless Steel	-
18	(*) Bolt	Stainless Steel	-	471	External Circlip	Stainless Steel	1
19	(*) Spring	DIN 2076 -D-5.6	-	934	Nut	Stainless Steel	-
20	Position Indicator	Polyamide	-	985	(*) Nut	Stainless Steel	-
21	Cam	Polyamide	-				

(*) Only for ASR series.



Corrosive protection

Corrosive protection acc. to ISO 12944-5.

Optional features (all combinable)

Locking device

Stroke Regulation

Imperial threads

Accessories

Limit switch Box (Atex Ia / DX)

Declutchable Gear Operator (DG)

Custom features

Other options available upon request. Please contact Actreg



For further information visit our website
www.actreg.com



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