



PNEUMATIC ACTUATORS RACK & PINION ACT - 0010

TECHNICAL FEATURES



GENERAL FEATURES

DESIGN STANDARDS	CERTIFICATES
Conformity with Directive 2014/68/EU on pressure equipment (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	Stroke adjustment by screw	Piston Ø (mm)	Air volume (L)		Operating time (s)		Seal material according to working temperature (°C)		
				Opening	Closing	Opening	Closing	STD (standard)	H (high temp.)	L (low temp.)
8 bar	90° ±5°	For 1° ¼ turn required	32	0,035	0,028	ADA 0,03	ADA 0,07	NBR O-ring (-30° to +100°)	FKM O-ring (-15° to +150°)	Silicone O-ring (-60° to +80°)

ACTUATOR CODIFICATION

ADA 0010 F03 - **L - K - C5 - RALXXXX**
 1 2 3 4 5 6 7

BASIC ACTUATOR FEATURES
1 – Acting type
ADA – Double acting
2 – Actuator size:
0010 – for ADA
3 – Flange connection
F03 according to ISO 5211

OPTIONAL ACTUATOR FEATURES
6 – Operating range temperature
Std – (-30 / 100) °C
H (high) – (-15 / 150) °C
L (low) – (-40 / 80) °C
E (extreme low) – (-60 / 80) °C
8 – Optional features (all combinable)
K – Locking device
R – Stroke regulation
U – Imperial threads
9 – Corrosive coating protection
Std – Protection C3
C4 – Protection C4
C5 – Protection C5
10 – Painting RAL
Std – End caps painted RAL 9005 / Body not painted
RALXXXX – RAL colour specified by the customer

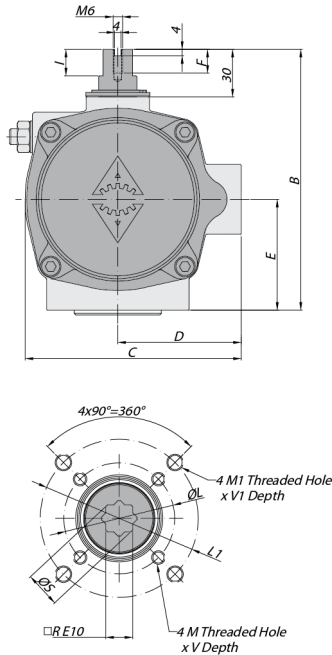
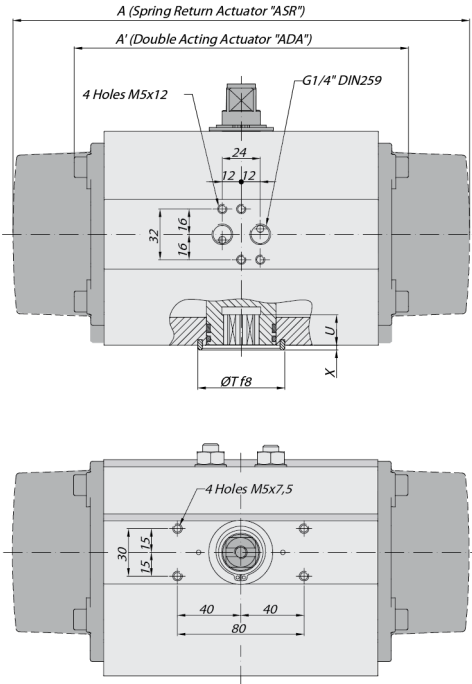
DOUBLE ACTING ACTUATOR “ADA” OUTPUT TORQUE IN Nm

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
Pressure	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°		0°
ADA	3		4		4,5		5,1		6		6,5		7		7,5		8,2		9,1	0,64

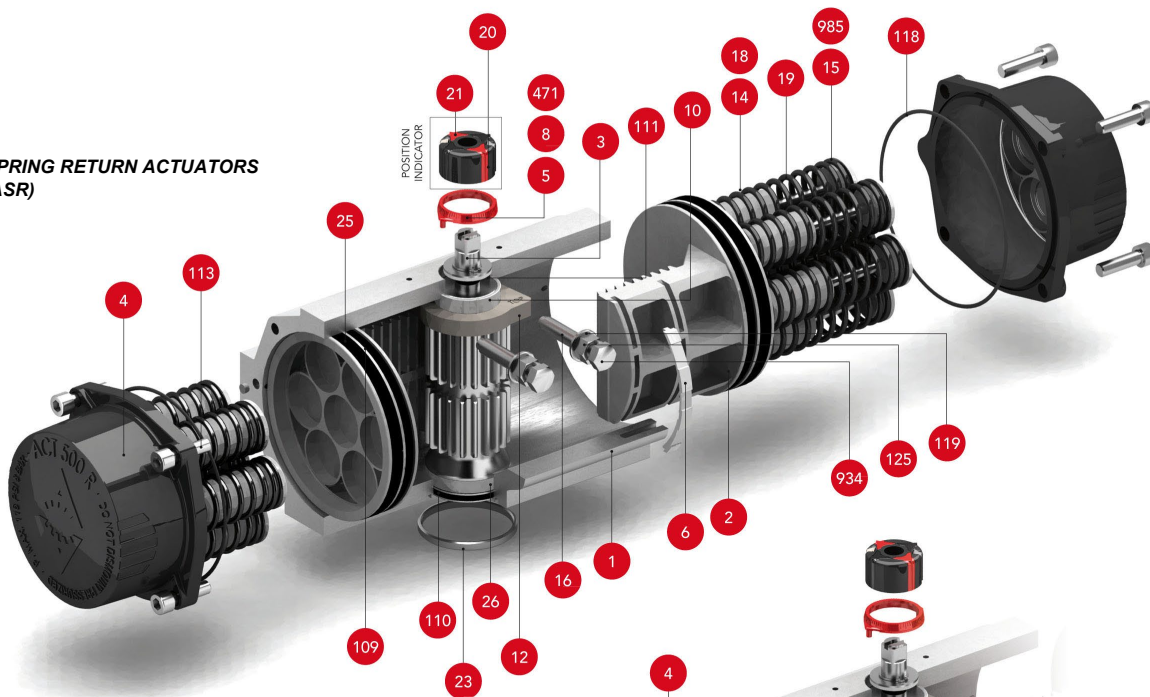
DIMENSIONS

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
-	100	76	56	33	23	9	6	9	12,5	F03	36	M5x8	-	-	-	11	2	12

(*) Dimensions in mm.



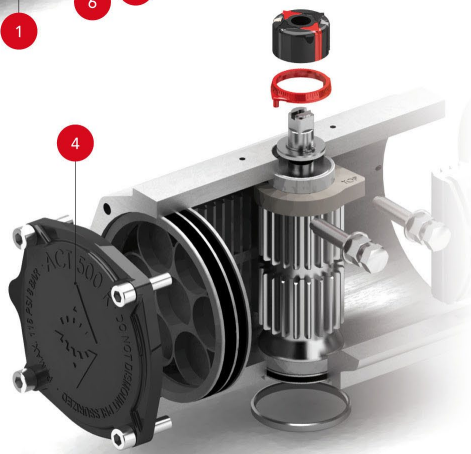
SPRING RETURN ACTUATORS (ASR)



POSITION INDICATOR



DOUBLE ACTING ACTUATOR (ADA)



PARTS AND MATERIALS

Item	Description	Material	Spare parts	Item	Description	Material	Spare parts
1	Body	Hard anodized aluminium	-	23	Centering ring	Nickel-plated carbon steel	-
2	Piston	Aluminium	-	24	Air plug	NBR / FKM / Silicone	2
3	Pinion	Nickel-plated carbon steel	-	25	Sliding guide	Polyamide PA 6.6 + 30% G.F.	2
4	Covers	Epoxy-coated aluminium	-	26	Lower pinion bearing	Hostalen RCH 1000	1
5	Pinion soft washer	Polyamide PA 6.6	1	109	O-ring – Piston	NBR / FKM / Silicone	2
6	Piston slider	Polyamide PA 6.6 + 30% G.F.	2	110	O-ring – Pinion base	NBR / FKM / Silicone	1
8	Pinion washer	Stainless steel	-	111	O-ring – Pinion top	NBR / FKM / Silicone	1
10	Upper pinion bearing	Hostalen RCH 1000	1	113	Screw	Stainless steel	-
12	Stopper	ASTM A-105	-	118	O-ring – Cover	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	(*) Screw	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.

Available options (all combinable)

Locking device

Stroke adjustment

Imperial threads

Accessories

Limit switch box (ATEX ia / EX d)

Declutchable gearbox (DG)

Customized options

Other options available upon request. Please contact ACTREG.



For more information, visit our website
www.actreg.com



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