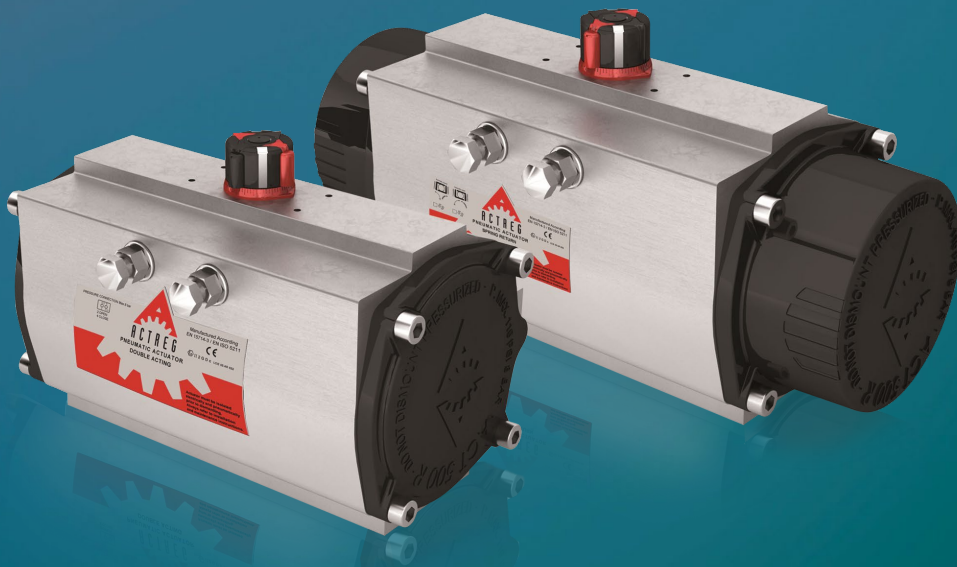




PNEUMATIC ACTUATORS RACK & PINION ACT - 0500

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	140,2	2,95	2,74	ADA 0,40 ASR 0,90	ADA 0,50 ASR 1,1	NBR O-Ring (-30° to +100°)	FKM O-Ring (-15° to +150°)	Silicone O-Ring (-60° to +80°)

ACTUATOR CODIFICATION

ASR	0500	F10	S14	FC	-	L	-	F38	-	K	-	C5	-	RALXXXX
1	2	3	4	5		6		7		8		9		10

ACTUATOR BASIC FEATURES
1 – Acting type
ASR – Single Acting
ADA – Double Acting
2 – Actuator size:
0500 – for ASR
0500 – for ADA
3 – Flange connection
F07 - F10 acc. to ISO 5211
F10 acc. to ISO 5211
4 – Number of springs (only for ASR):
S06 / 08 / 10 / 12 / 14 – for ASR 0500
5 – Fail Position (only for ASR):
FC – Fail Close
FO – Fail Open

ACTUATOR OPTIONAL 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
7 – Air inlet connection not standard
F38 – Air inlet 3/8" G
F12 – Air inlet 1/2" G
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 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	
Pressure	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	
ADA	217		253		289		325		361		397		433		469		505		577		11,2

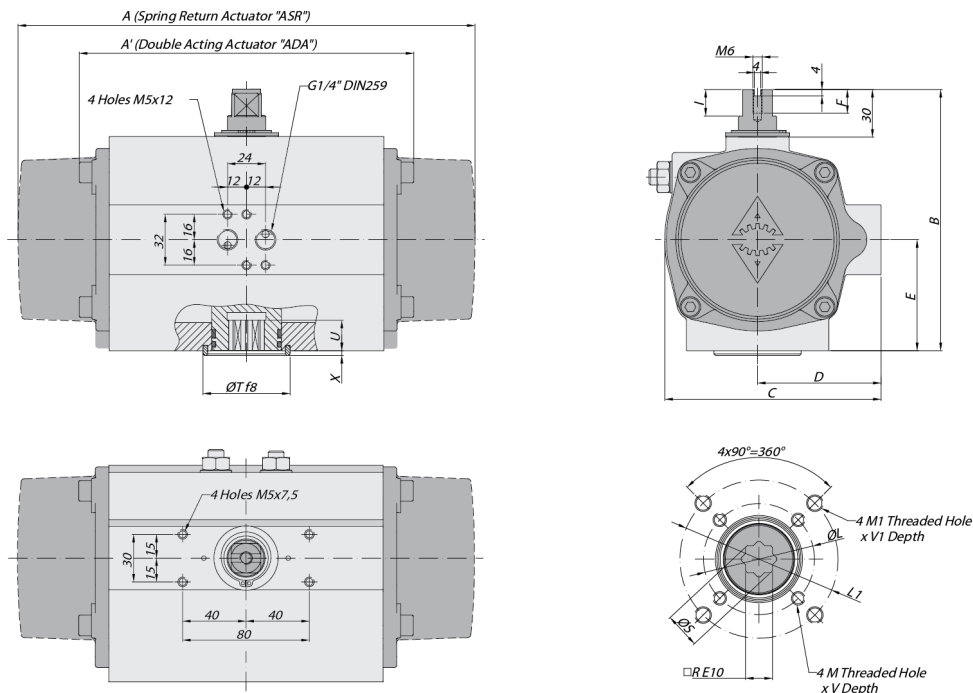
SPRING RETURN ACTUATOR "ASR" TORQUE OUTPUT IN Nm

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	152	119	188	155	224	191	260	227	296	263	333	299	369	335	405	371	441	407	513	480	76	115	
S08	131	86	167	122	203	158	239	194	275	231	311	267	347	303	383	339	419	375	492	447	101	153	
S10					181	126	217	162	254	198	290	234	326	270	362	306	398	342	470	414	126	192	
S12							196	129	232	165	268	201	304	238	340	274	376	310	449	382	152	230	
S14											247	169	283	205	319	241	355	277	427	349	177	268	

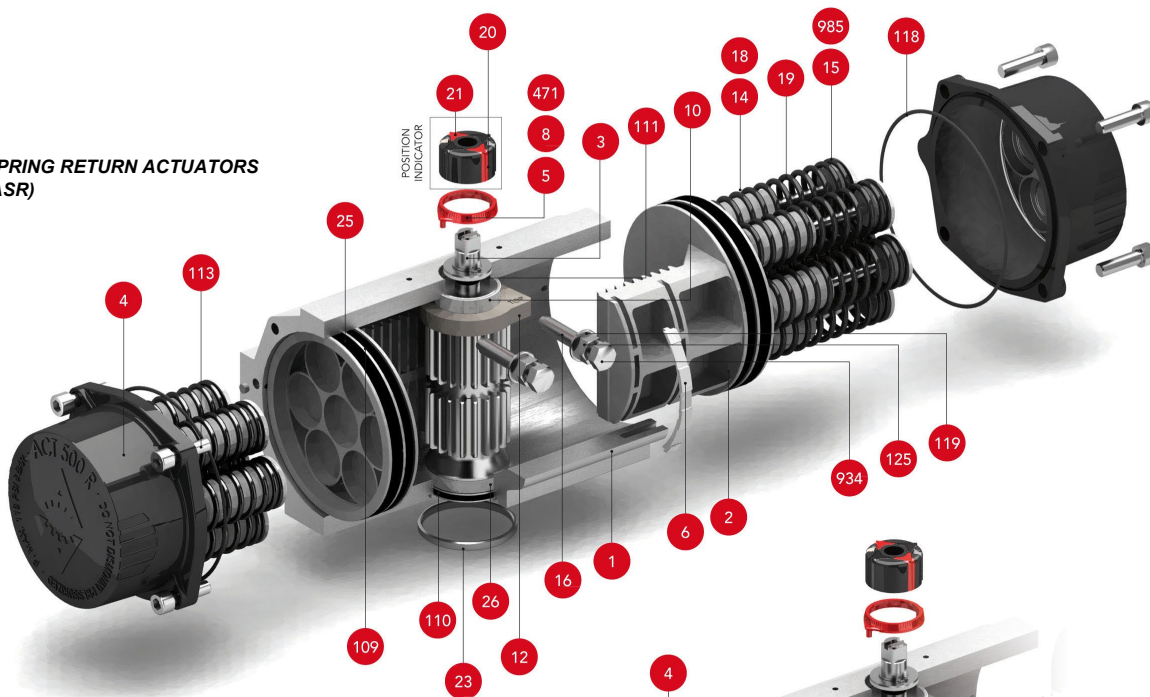
DIMENSIONS

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
397	304	199	173	96	85	12	12,5	22	28,5	F07	70	M8X16	F10	102	M10X16	70	3	32
397	304	199	173	96	85	12	12,5	22	28,5	F10	102	M10X16	-	-	-	70	3	32

(*) 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 / EX d)

Declutchable Gear Operator (DG)

Custom features

Other options available upon request. Please contact ACTREG



For further information visit our website
www.actreg.com



ACTREG S.A.U. (headquarters)

Carrer de l'Energia 15-25, naves 1 y 2
 Pol. Industrial Barnasud
 08850 Gavà
 Barcelona (Spain)
 Phone +34 936 614 410
actreg@actreg.com

ACTREG do Brasil, Sorocaba (SP)

Avenida Liberdade, 4565
 Barrio Iporanga - Sorocaba - SP
 CEP 18.087-170
 Sao Paulo, Brasil
 Phone 0055 15 3228 1010
actreg@actregdobrasil.com.br

ACTREG Shanghai Actuator Co., Ltd.

No.125 Ji Ye Road
 She Shan Industrial Zone
 Songjiang District, Shanghai, China
 P.R.C. 201602
 Phone +86 21 57796818
sale@actreg.net.cn

ACTREG UK, LTD

Units 2 & 3 Henson Close
 Telford Way Industrial Estate
 Kettering Northants NN 16 8PZ
 United Kingdom
 Phone 0044 1536412525
sale@actreg.co.uk

ACTREG North America

20675 Boul. Industrial
 Ste. Anne-de-Bellevue, Quebec
 H9X 4B2 Canada
 Toll Free: 1 800 667 4819
 Phone 001514 457 5777
truline.sales@truline.ca