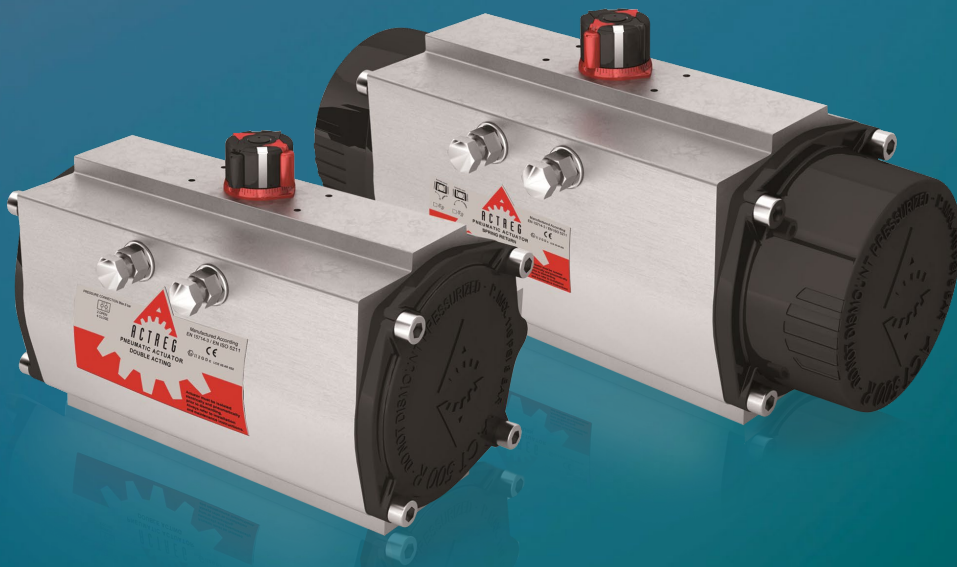




POWER IN AUTOMATION

PNEUMATIC ACTUATORS RACK & PINION ACT - 2500

TECHNICAL FEATURES



GENERAL FEATURES

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 SC3 capability certification
Mounting devices according to NAMUR VDI / VDE 3845 standard.	ISO 9001 quality certification / ISO 14001 environmental certification
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.				Seal material according to temperature (°C)		
				Opening	Closing	Opening		Closing		STD (standard)	H (high temp.)	L (low temp.)
8 bar	90° ±5°	For 1° ¼ turn is required	300	15,6	14,4	ADA 2,8	ADA 2,1	ASR 3,8	ASR 4,1	NBR O-Ring (-30° to +100°)	FKM O-Ring (-15° to +150°)	Silicone O-Ring (-60° to +80°)

ACTUATOR CODIFICATION

<u>ASR</u>	<u>2500</u>	<u>F16</u>	<u>S14</u>	<u>FC</u>	-	<u>L</u>	-	<u>F38</u>	-	<u>K</u>	-	<u>C5</u>	-	<u>RALXXXX</u>
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: 2500 – for ASR 2500 – for ADA	7 –Air inlet connection non-standard F38 – Air inlet 3/8" G F12 – Air inlet 1/2" G F34 – Air inlet 3/4" G F1 – Air inlet 1" G
3 – Flange connection F14 according to ISO 5211 F16 according 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 2500	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	1730		2019		2307		2596		2884		3172		3461		3749		4038		4614		69,6

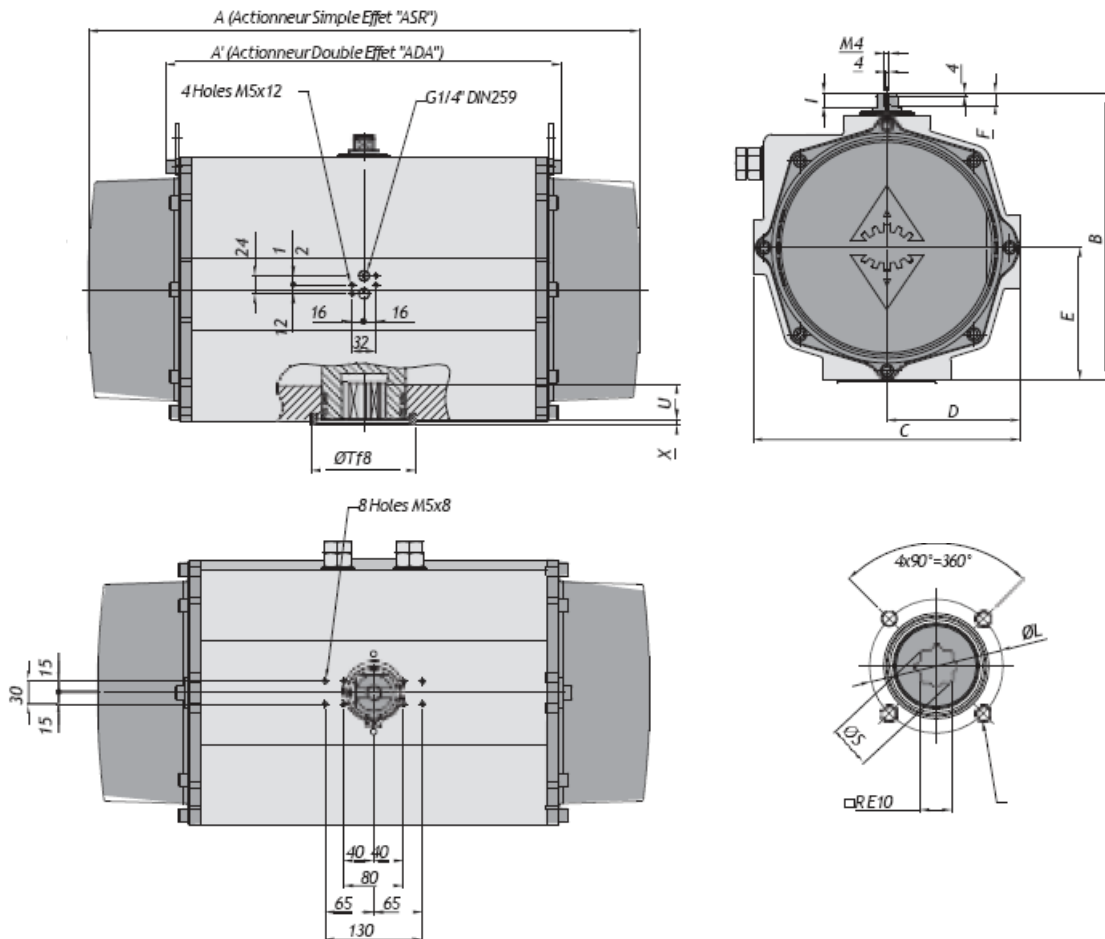
SPRING-RETURN ACTUATOR "ASR" TORQUE OUTPUT IN Nm

TYPE	Output torque with 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	1299	1045	1587	1333	1876	1622	2164	1910	2453	2199	2741	2487	3029	2775	3318	3064	3606	3352	4183	3929	508	806	85,9
S08	1155	816	1444	1105	1732	1393	2020	1682	2309	1970	2597	2258	2886	2547	3174	2835	3462	3124	4039	3700	677	1075	89,4
S10			1300	876	1588	1165	1877	1453	2165	1742	2453	2030	2742	2318	3030	2607	3319	2895	3895	3472	846	1344	92,9
S12					1444	936	1733	1225	2021	1513	2310	1802	2598	2020	2886	2378	3175	2667	3752	3243	1015	1613	96,4
S14							1589	996	1877	1285	2166	1573	2454	1861	2742	2150	3031	2438	3608	3015	1184	1882	99,9

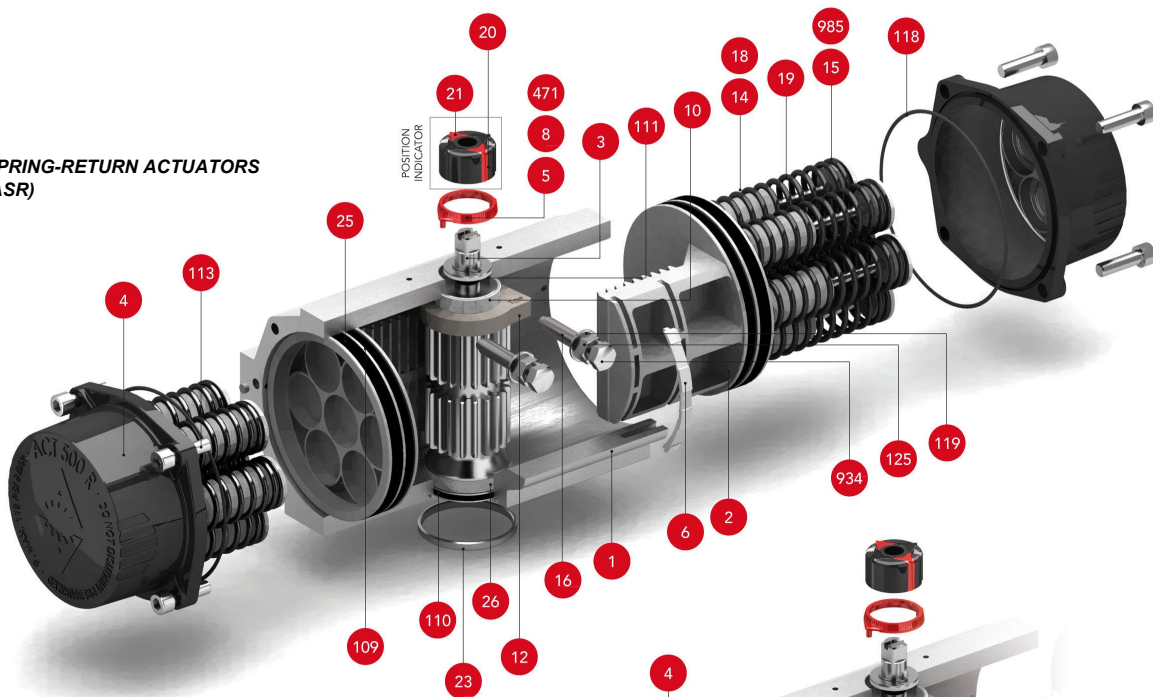
DIMENSIONS

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
738	518	383	356	177,5	176,5	16	18,6	46	60,2	F14	140	M16x26	-	-	-	130	4	58
738	518	383	356	177,5	176,5	16	18,6	46	60,2	F16	165	M20x29	-	-	-	130	4	58

(*) Dimensions in mm.



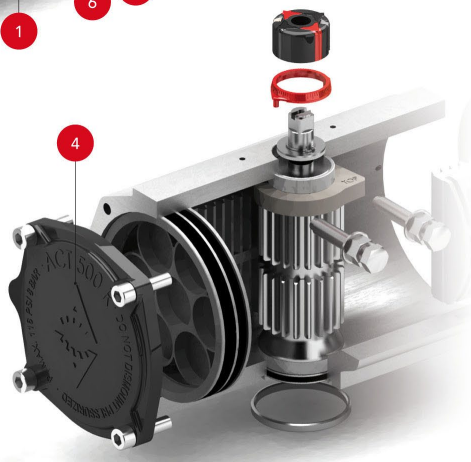
SPRING-RETURN ACTUATORS (ASR)



POSITION INDICATOR



DOUBLE-ACTING ACTUATOR (ADA)



PARTS & MATERIALS

Item	Description	Material	Spare parts	Item	Description	Material	Spare parts
1	Body	Hard anodised 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% GF	2
4	Covers	Aluminium with epoxy coating	-	26	Pinion lower bearing	Hostalen RCH 1000	1
5	Pinion soft washer	Polyamide PA 6.6	1	109	O-ring – Piston	NBR / FKM / Silicone	2
6	Piston guide	Polyamide PA 6.6 + 30% GF	2	110	O-ring – Pinion base	NBR / FKM / Silicone	1
8	Pinion washer	Stainless steel	-	111	O-ring – Pinion upper	NBR / FKM / Silicone	1
10	Pinion upper bearing	Hostalen RCH 1000	1	113	Screw	Stainless steel	-
12	Stop	ASTM A-105	-	118	O-ring – Cover	NBR / FKM / Silicone	2
14	(*) Spring – Long support	Polyamide PA 6.6	-	119	O-ring – screw adjustment	NBR / FKM / Silicone	2
15	(*) Spring – Short support	Polyamide PA 6.6	-	125	Washer	Stainless steel	-
16	Leveling screw	Stainless steel	-	913	Grub 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.

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 more information, visit our website
www.actreg.com



ACTREG S.A.U. (headquarters)

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

ACTREG do Brasil, Sorocaba (SP)

Avenida Liberdade, 4565
 Iporanga District - Sorocaba - SP
 CEP 18.087-170
 São Paulo, Brazil
 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