

# Series 69 rotary cylinders

למידע נוסף באתר אוטומציה ירוחם לחצו כאן

Magnetic, cushioned  
0 32, 40, 50, 63, 80, 100, 125 mm  
Rotational angles: 90°, 180°, 270° and 360°

» Male or female version »

Clean design



Through an adjustment screw it is possible to recover part of the play between pinion and rack.

On the heads there is a screw which allows rotation to be adjusted by  $\pm 5^\circ$ .

**Series 69 rotary cylinders are available in 7**

**operational requirements.**

**different bores and can satisfy a large range of**

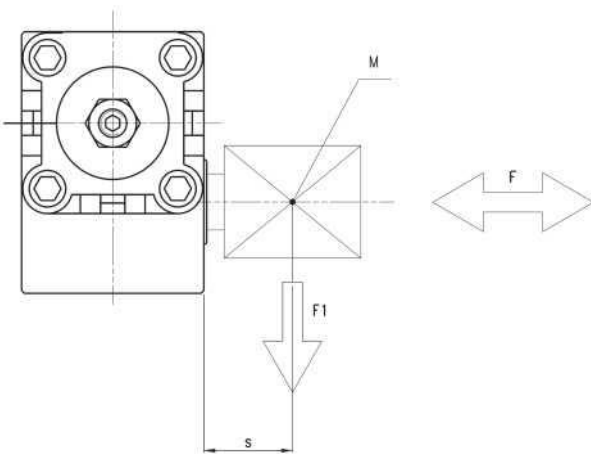
## GENERAL DATA

<b>Type of construction</b>	with internal tie-rods
<b>Operation</b>	double-acting
<b>Materials</b>	end blocks / tube / body = AL rack = steel rack guide shoe = acetal resin pinion = hardened steel seals = NBR
<b>Type of mounting</b>	threaded holes in the central body by means of brackets for ISO 15552 cylinders
<b>Bore</b>	0 32, 40, 50, 63, 80, 100, 125
<b>Operating temperature</b>	0°C + 80°C (with dry air - 20°C)
<b>Standard rotation angles</b>	90°, 180°, 270°, 360° (others on request)
<b>Bearings</b>	Ball bearings ( 0 32 mm teflon bronze guide)
<b>Operating pressure</b>	1 + 10 bar
<b>Fluid</b>	filtered air class 7.8.4 according to ISO 8573-1. If lubricated air is used, it is recommended to use oil ISOVG32. Once applied the lubrication should never be interrupted



**MAXIMUM ADMISSIBLE LOADS AND FORCES**

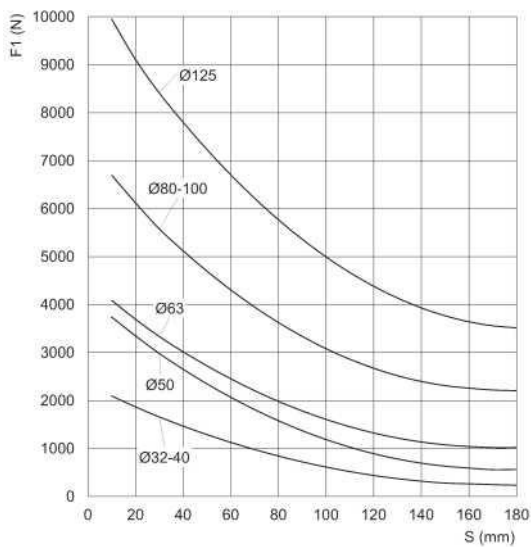
	0 32	0 40	0 50	0 63	0 80	0 100	0 125
Maximum axial load F with F1 = 0	100 N	100 N	120 N	120 N	200 N	250 N	300 N
Maximum angular speed $\psi$ (rad/s)	66 (rad/s)	55 (rad/s)	49 (rad/s)	42 (rad/s)	31 (rad/s)	29 (rad/s)	23 (rad/s)
Maximum cushionable kinetic energy (J) calculated as $E = \frac{1}{2} \cdot J \cdot \psi^2$	0.8 (J)	1.4 (J)	2.1 (J)	4.0 (J)	7.5 (J)	9.0 (J)	15 (J)



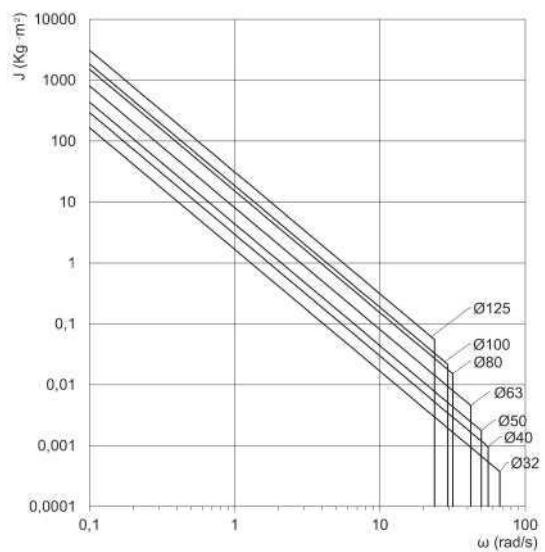
M = Center of gravity of the applied theoretical load F =  
Axial load (N)  
F1 = Radial load (N)

s = distance between actuator and center of gravity of the applied  
theoretical load (mm)

**CHOICE AND CHECK OF THE ACTUATOR TO BE USED**



Max. radial load F1 with F = 0  
S = distance between actuator and center of gravity of the applied  
theoretical load (mm)  
Maximum energy that can be cushioned according to the angular



speed.  
J = Moment of inertia (Kg · m<sup>2</sup>)  
 $\omega$  = Angular speed (rad/s)

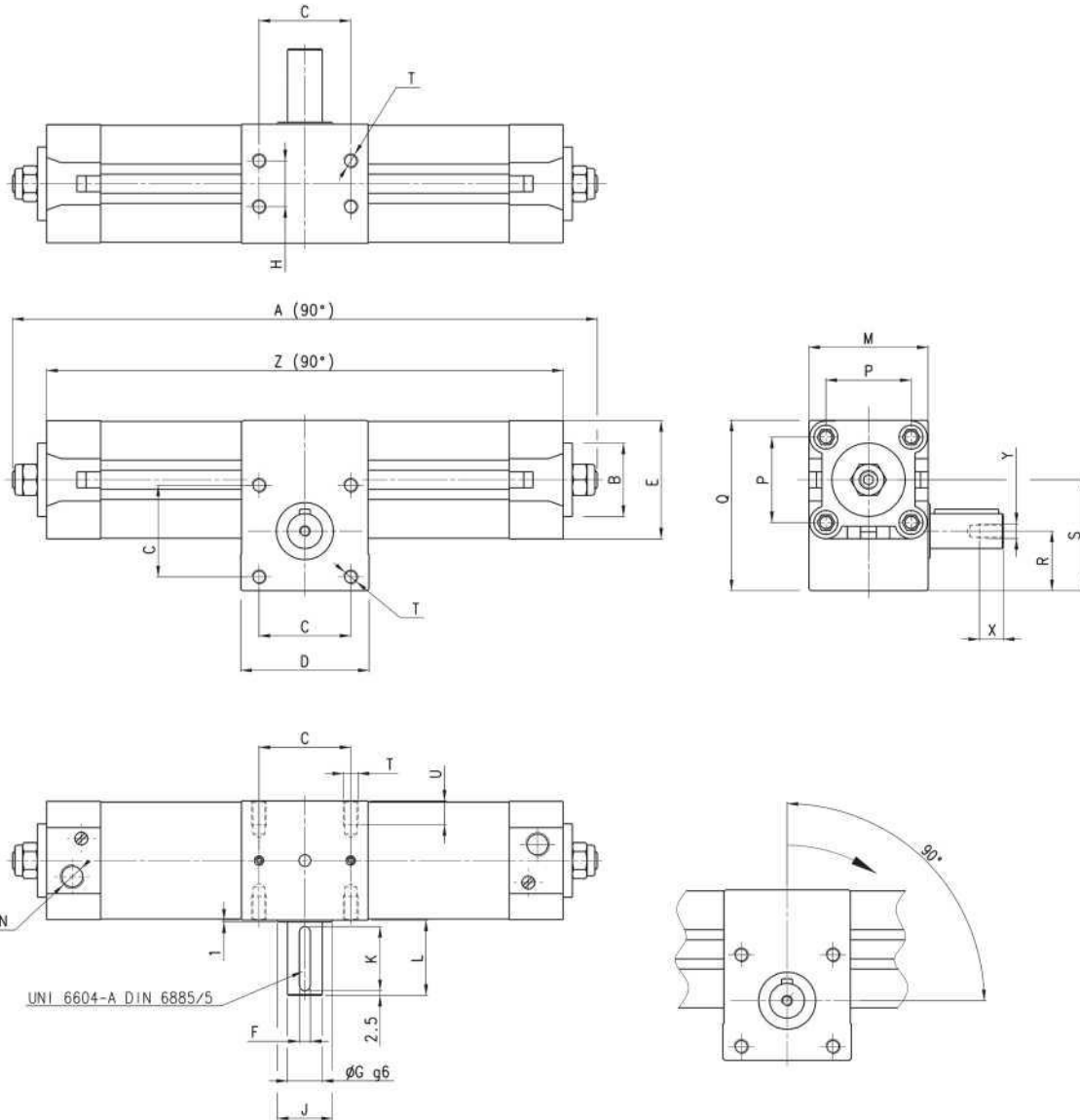
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**Series 69 cylinders - male pinion**



\* increase in "A" and "Z" for each 90° of rotation

SERIES 69 ROTARY



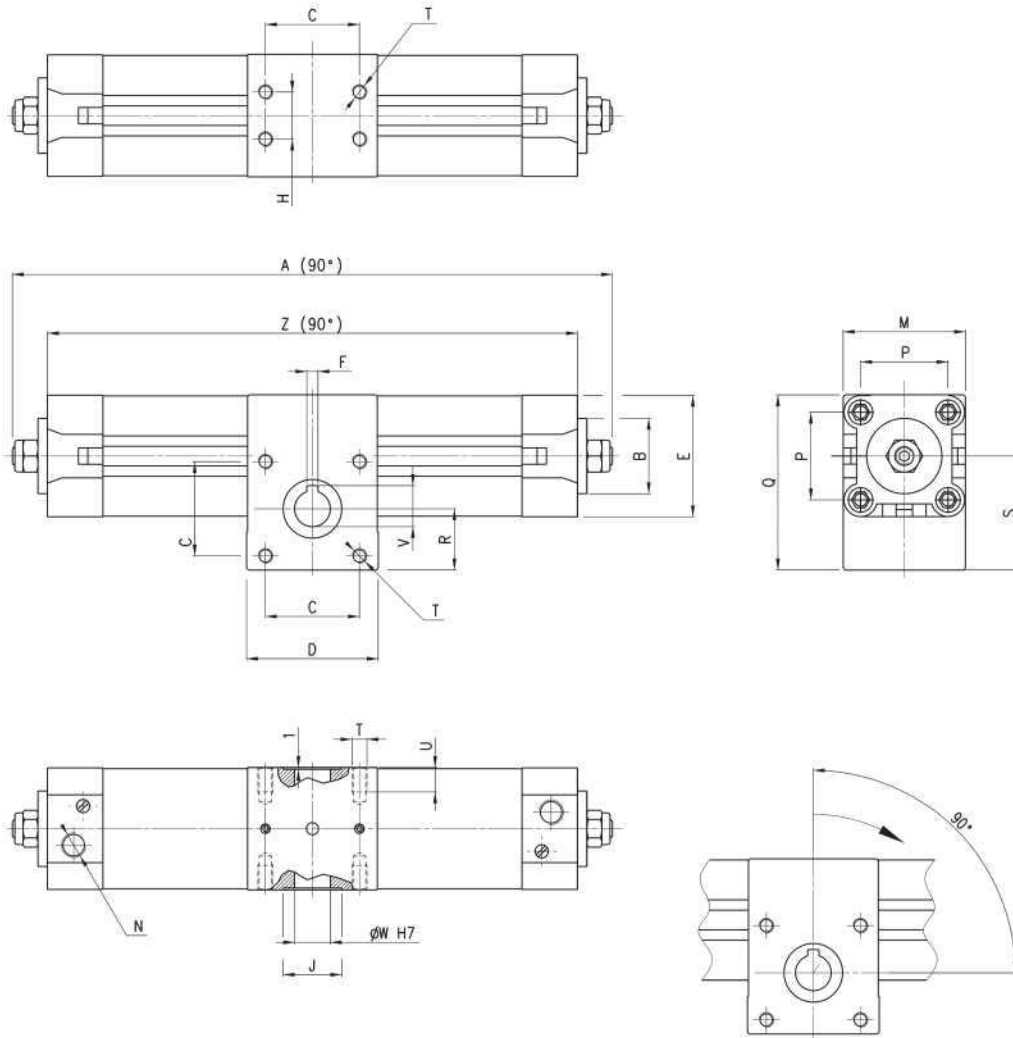
**DIMENSIONS**

0	A	B	ψ	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	Y	X	Z
32	249	30	47	33	50	46	5	14	18	25	25	31	50	G1/8	32,5	71,5	25	46,5	M6	10	M5	12,5	219
40	295	35	56,5	40	60	55	5	14	22	25	25	31	60	G1/4	38	82	30	54,5	M6	10	M5	12,5	263
50	316	40	63	50	70	64,5	6	19	25	30	35	41	65	G1/4	46,5	94	32,5	60,5	M8	13	M6	16	282
63	357	45	74,5	60	75	75	8	24	35	30	35	41	75	G3/8	56,5	110	37	70,8	M8	13	M8	19	325
80	443	45	99	80	99	93	8	28	50	45	45	51	99	G3/8	72	142	50	93,5	M10	16	M8	19	404
100	472	55	107	80	115	110	10	38	60	50	45	51	115	G1/2	89	156,5	54	99	M10	16	M10	22	434
125	549	60	132	90	125	135	10	38	70	60	45	51	140	G1/2	110	188	60	118	M12	20	M10	22	505

Series 69 cylinders - female pinion



\* increase in "A" and "Z" for each 90° of rotation



SERIES 69 ROTARY

DIMENSIONS

0	A	B	$\psi$	C	D	E	F	H	J	M	N	P	Q	R	S	T	U	V	W	Z
32	249	30	47	33	50	46	5	18	25	50	G1/8	32,5	71,5	25	46,5	M6	10	16,3	14	219
40	295	35	56,5	40	60	55	5	22	25	60	G1/4	38	82	30	54,5	M6	10	16,3	14	263
50	316	40	63	50	70	64,5	6	25	30	65	G1/4	46,5	94	32,5	60,5	M8	13	21,8	19	282
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125	549	60	132	90	125	135	8	70	60	140	G1/2	110	188	60	118	M12	16	31,3	28	505

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