

Rotary cylinders Series 69

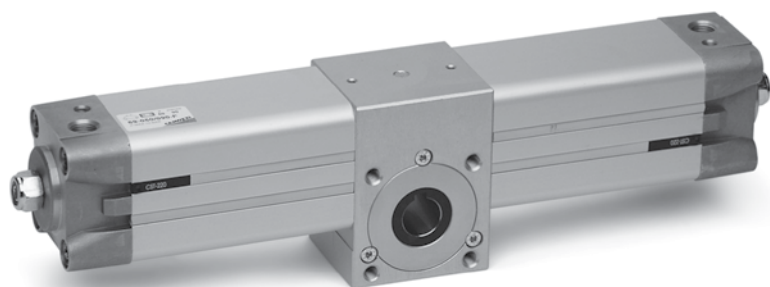
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Magnetic, cushioned

ø32, 40, 50, 63, 80, 100, 125

Rotational angles 90° and 180°

- » Male or female version
- » Clean design



The rotary cylinders of the 69 Series are available in seven different bores from 32 to 125mm and in order to satisfy a large range of operational requirements, they are available in two different versions, one with male pinion and one with female.

As a result of their design and the materials used, these cylinders can be used in extreme conditions with optimum results.

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

GENERAL DATA

Type of construction	with internal tie-rods
Operation	double-acting
Materials	end blocks AL, tube AL, seals NBR, body AL, rack steerack guide shoe in acetal resin; pinion in hardened steel
Type of mounting	threaded holes in the central body by means of Series 60 brackets
Bore	ø 32, 40, 50, 63, 80, 100, 125
Operating temperature	0°C + 80°C (with dry air - 20°C)
Standard rotation angles	90°, 180° (others on request)
Bearings	Ball bearings (ø 32 mm teflon bronze guide)
Operating pressure	1 + 10 bar
Fluid	clean air, without lubrication If lubricated air is used, it is recommended to use oil ISOVG32. Once applied the lubrication should never be interrupted

TABLE OF TORQUE FORCE IN Nm (THEORETICAL)

∅	1 Bar	2 Bar	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar	8 Bar	9 Bar	10 Bar
32	1,2	2,4	3,6	4,8	6	7,2	8,4	9,6	10,8	12
40	2,25	4,5	6,75	9	11,25	13,5	15,75	18	20,25	22,5
50	3,9	7,8	11,7	15,6	19,5	23,4	27,3	31,2	35,1	39
63	7,3	14,6	21,9	29,2	36,5	43,8	51,1	58,4	65,7	73
80	15,7	31,4	47,1	62,8	78,5	94,2	109,9	125,6	141,3	157
100	26,35	52,7	79,05	105,4	131,75	158,1	184,45	210,8	237,15	263,5
125	51	102	153	204	255	306	357	408	459	510

CODING EXAMPLE

69	-	050	/	090	-	F
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69 SERIES

050 BORE
 32 mm
 40 mm
 50 mm
 63 mm
 80 mm
 100 mm
 125 mm

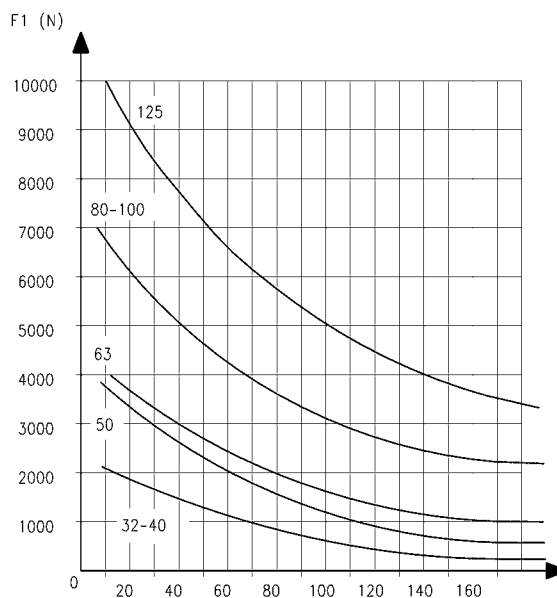
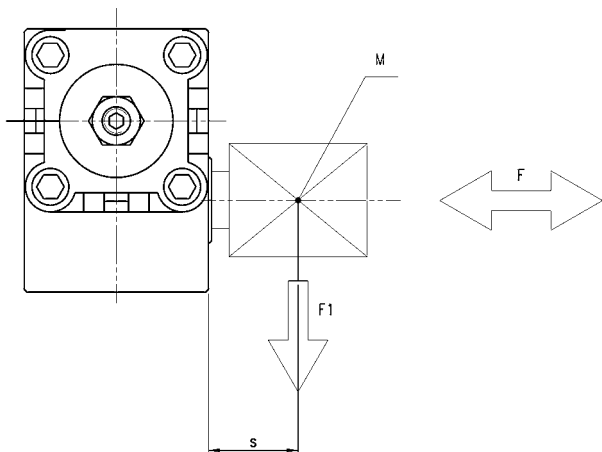
090 ROTATIONAL ANGLES
90 - 180°**F** PINION
F = Female
M = Male

AXIAL LOAD

Max. axial load F with $F_1 = 0$

\varnothing	32	40	50	63	80	100	125
Force F	100 N	100 N	120 N	120 N	200 N	250 N	300 N

RADIAL LOAD



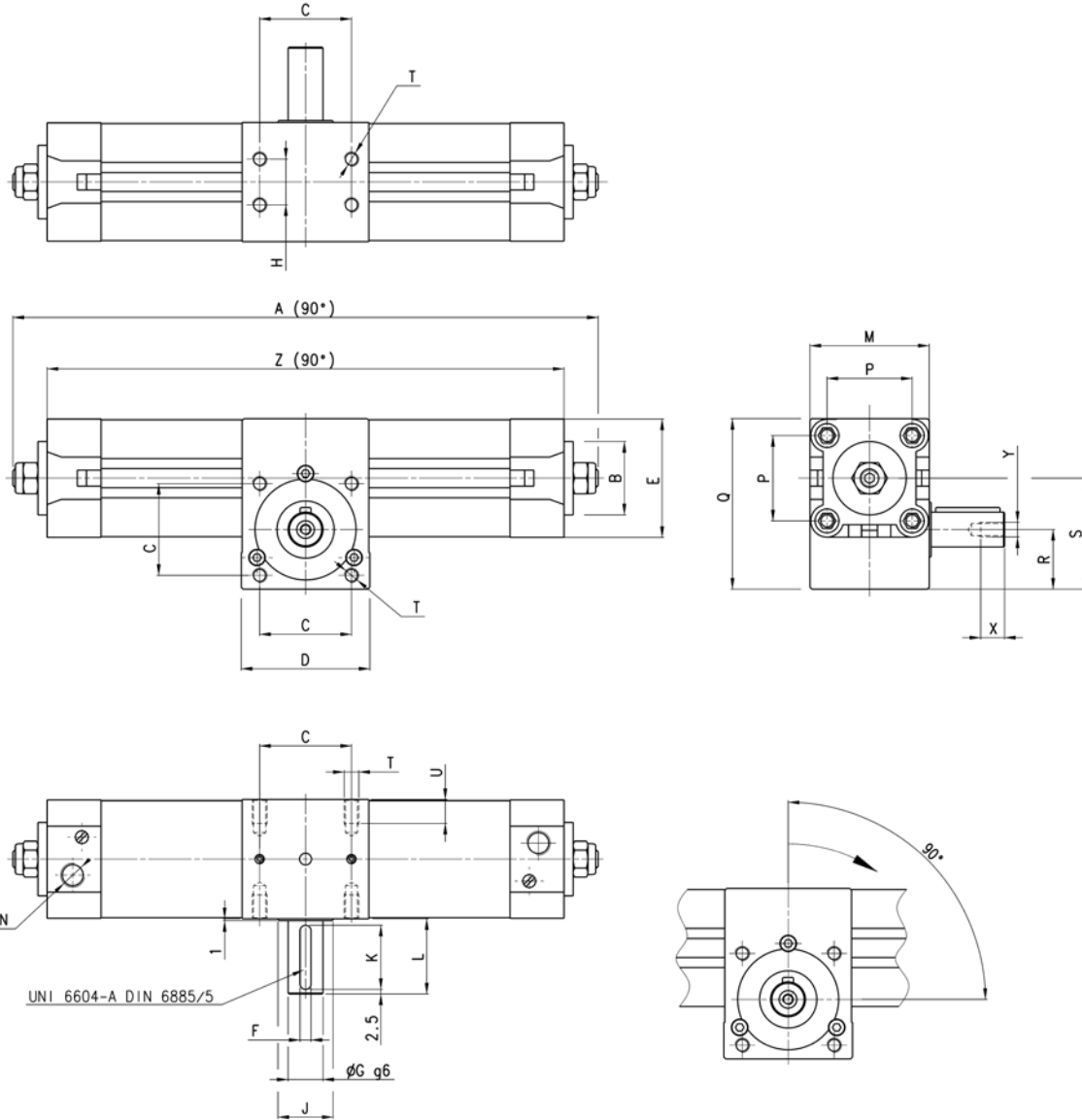
M = Barycenter of the applied theoretical load.

Max. radial load F_1 with $F = 0$

Mod. 69 male pinion



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

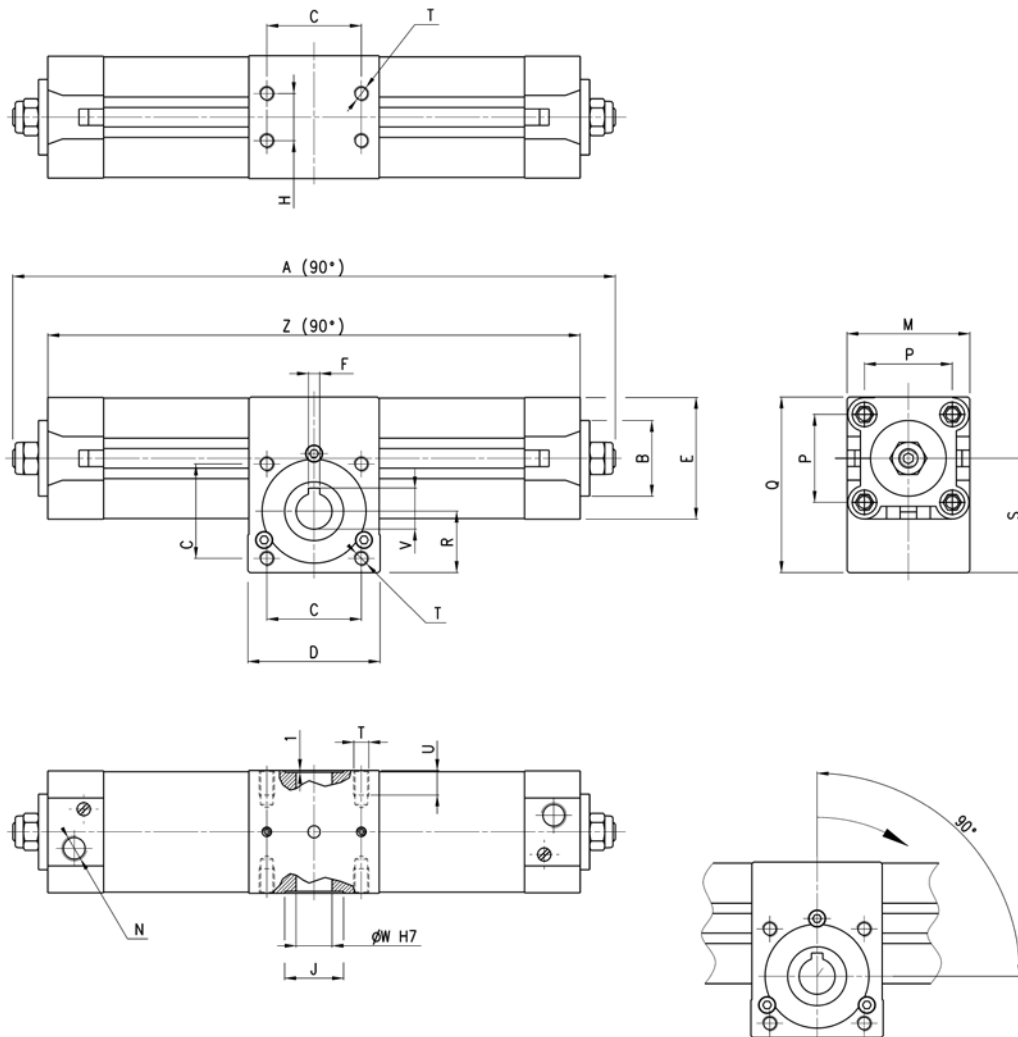


DIMENSIONS																							
∅	A	B	*	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	Y	X	Z
32	249	30	47	33	50	46	5	14	18	25	25	31	50	G1/8	32,5	71,5	25	46,5	M6	10	M5	12,5	219
40	295	35	56,5	40	60	55	5	14	22	25	25	31	60	G1/4	38	82	30	54,5	M6	10	M5	12,5	263
50	316	40	63	50	70	64,5	6	19	25	30	35	41	65	G1/4	46,5	94	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

Mod. 69 female pinion



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



DIMENSIONS																				
∅	A	B	*	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
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80	443	45	99	80	99	93	8	50	45	99	G3/8	72	142	50	93,5	M10	16	27,3	24	404
100	472	55	107	80	115	110	8	60	50	115	G1/2	89	156,5	54	99	M10	16	31,3	28	434
125	549	60	132	90	125	135	8	70	60	140	G1/2	110	188	60	118	M12	16	31,3	28	505

The company reserves the right to vary models and dimensions without notice.
Products designed for industrial applications. Sale to general public is forbidden.