

Construction characteristics

Cover plates	UNI 5079 aluminium alloy casting
Central body	oxidised aluminium
Pinion	18 NiCrMo4 cemented and tempered
Rack	C43
Barrel	anodised aluminium Ra=0.3-0.5
Sliding shoe	acetal resin
Cushion bushings	hardened aluminium
Piston	vulcanized rubber block on steel core with incorporated permanent magnet or without magnet plus rear spacer for non magnetic version
Seals	NBR 80 shore rubber
Cushion adjustment screw	nickel plated steel
Rotating angle adjustment assy	nickel plated brass

Technical characteristics

Fluid	filtered and preferably lubricated air
Max. pressure	10 bar
Working temperature	-5°C- +70°C
Standard rotation	90° - 180° - 270° - 360°(+1°)
Rotating angle adjustment assy	±10°

Please follow the suggestions below to ensure a long life for these cylinders:

- use clean and lubricated air
- correct alignment during assembly with regard to the applied load so as to avoid radial components or bending the rod.
- avoid high speeds together with long strokes and heavy loads: this would produce kinetic energy which the cylinder cannot absorb, especially if used as a limit stop (in this case use mechanical stop device)
- evaluate the environmental characteristics of cylinder used (high temperature, hard atmosphere, dust, humidity etc.)

Please note: air must be dried for applications with lower temperature.

Use hydraulic oils H class (ISO Vg32) for correct continued lubrication.

Our Technical Department will be glad to help.

Bore	32	40	50	63	80	100
Torque moments Nm/bar	0.9	1.7	2.9	5.55	13.2	23.8
Axis load max. kg.	8	10	10	12	18	22
Cushioning angle	60°	60°	50°	50°	40°	40°

Female pinion version

Ordering code

1330.Ø.*.01

magnetic

1331.Ø.*.01

non magnetic

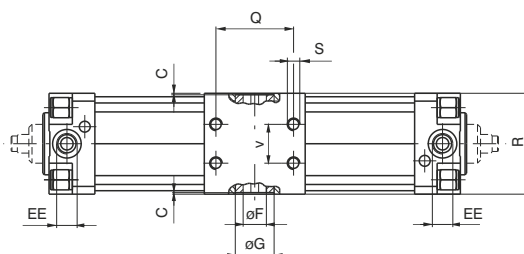
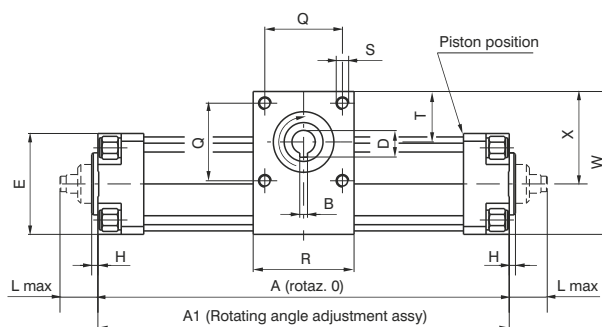
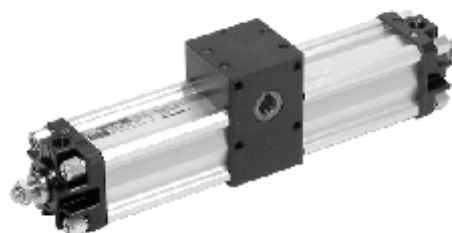
1330.Ø.*.01R

magnetic with
rotating adjustment
angle

1331.Ø.*.01R

non magnetic with
rotating adjustment
angle

* = rotating angle



Male pinion version

Ordering code

1332.Ø.*.01

magnetic

1333.Ø.*.01

non magnetic

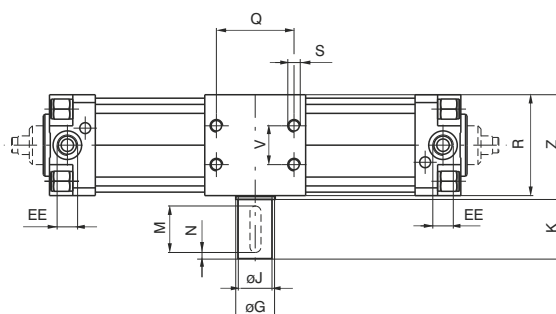
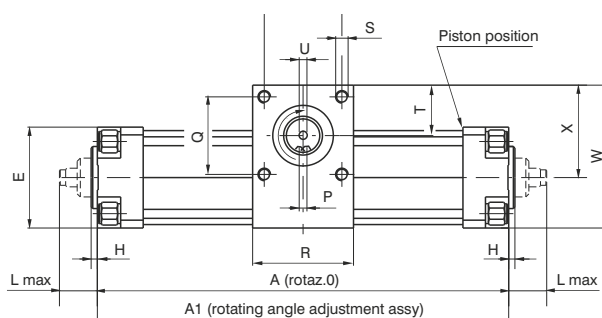
1332.Ø.*.01R

magnetic with
rotating adjustment
angle

1333.Ø.*.01R

non magnetic with
rotating adjustment
angle

* = rotating angle



Dimensions

Bore	32	40	50	63	80	100
A rot. 0°	171	195	202	233	268	300
A rot. 90°	218	252	265	308	378	427
A rot. 180°	265	308	328	382	488	555
A rot. 270°	312	364	390	457	598	682
A rot. 360°	359	421	453	531	708	809
A1 rot. 0°	174	198	206	237	274	307
A1 rot. 90°	221	255	269	312	384	434
A1 rot. 180°	268	311	332	386	494	562
A1 rot. 270°	315	367	394	461	604	689
A1 rot. 360°	362	424	457	535	714	816
B	5	5	5	6	6	8
C	1	1	1	1	1	1
D	17.3	17.3	17.3	20.8	22.8	28.3
E	46	52	65	75	95	115
Ø F (H 7)	15	15	15	18	20	25
Ø G	25	25	25	30	40	55
H	4	4	4	4	4	4
Ø J (h 7)	14	14	22	25	30	35
K	30	30	40	40	50	50
L max.	23	23	28.5	28.5	34.5	34.5
M	25	25	35	35	45	45
N	2.5	2.5	2.5	2.5	2.5	2.5
P	5	5	6	8	8	10
Q	33	40	50	60	80	80
R	50	60	65	75	100	115
S	M6	M6	M8	M8	M10	M10
T	27.5	35	32.5	35.5	50	54.5
U	M5	M5	M6	M8	M8	M10
V	18	22	25	35	50	60
W	71	85	92	105	141	162
X	48	59	59.5	67.5	93.5	104.5
Z	51	61	66	76	101	116
EE	G 1/8"	G 1/4"	G 1/4"	G 3/8"	G 3/8"	G 1/2"
Piston stroke every 10 ° of rotation	2.61	3.14	3.49	4.14	6.11	7.07
Female Pinion weight gr.	rot. 90°	1450	2020	3050	4850	10000
	rot. 180°	1600	2240	3350	5350	11000
	rot. 270°	1750	2460	3650	5850	12000
	rot. 360°	1900	2680	3950	6350	13000
Male Pinion weight gr.	rot. 90°	1550	2150	3280	5150	10500
	rot. 180°	1700	2370	3580	5650	11500
	rot. 270°	1850	2590	3880	6150	12500
	rot. 360°	2000	2810	4180	6650	13500

Magnetic sensors

Sensors 1500._, RS._, HS._ series
Mounting brackets codes 1320._(A, B, C)