ROTARY ACTUATOR SERIES R2

Actuator with double rack and play take-up.

Four sizes – 12, 16, 20 and 25. Two angles of rotation – 90° and 180°. Stroke adjustment system for all sizes. Pneumatic cushioning for all sizes except the smallest. There are slots in the body to house a magnetic proximity sensor. Air supply, stroke adjustment and cushioning adjustment are all on the same side.

N.B.: We always suggest to use flow microregulators.

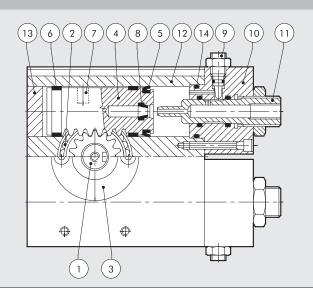
During the setup of the actuator, start with CLOSE flow microregulators, and open gradually till the achievment of the required speed.



TECHNICAL DATA		R2-12	R2-16	R2-20	R2-25
Operating pressure	bar	1.5 to 7			
	MPa	0.15 to 0.7			
	psi		22 to 101		
Temperature range	°C	-10 to +80			
Angle adjustment	degrees	35° (about +10° -25°)			
Fluid		20 µm filtered, lubricated or unlubricated air; lubrification if used, it must be continuous			
Versions		90°/180° rotation			
Ports		Both at the front			
Sizes	mm	12	16	20	25
Theoretical torque (ΔP = pressure in bar)	Nm	0.065 x P	0.11 x P	0.21 x P	0.48 x P
Max. axial load	N	8	14	40	80
Max. radial load	N	8	14	40	80
Weight with 90° rotation	kg	0.18	0.26	0.63	0.8
Weight with 180° rotation	kg	0.21	0.31	0.72	1
Rotation time without load:					
• 90° angle	\$	0.2	0.2	0.2	0.2
• 180° angle	\$	0.3	0.3	0.3	0.3

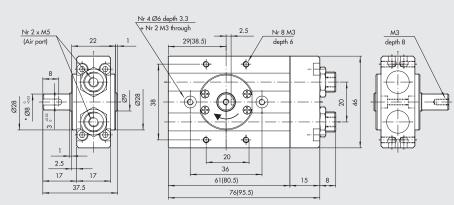
COMPONENTS

- ① ROTARY SHAFT / PINION: hardened and tempered steel
- 2 BALL BEARING
- ③ FLANGE: anodized aluminium
- 4 PISTON / RACK: hardened and tempered steel
- ⑤ PISTON GASKET: NBR
- 6 GUIDE PAD: PTFE
- 7 MAGNET: neodymium
- **®** CUSHIONING GASKET: NBR
- O CUSHIONING PIN: zinc-plated steel
- (1) HEAD: anodized aluminium
- n PNEUMATIC CONNECTION / STROKE ADJUSTMENT: steel
- 12 BARREL: anodized aluminium
- (13) BASE: anodized aluminium
- (4) SEAL: NBR





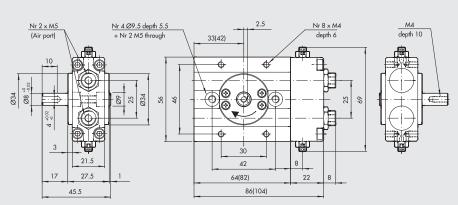
ROTARY ACTUATOR R2-12 90°/180°



* For the version R2-12-90° it was \varnothing 6 mm; spare actuators code W1620122091 can be still supplied Dimensions for 180° rotation are given in brackets

Code Description W1620122090 Rotary actuator R2-12-90 $^{\circ}$ W1620122180 Rotary actuator R2-12-180°

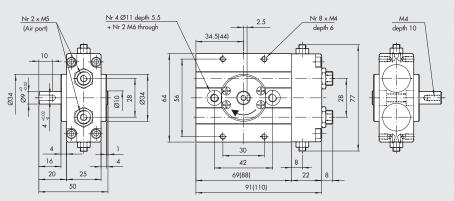
ROTARY ACTUATOR R2-16 90°/180°



Code Description W1620162090 Rotary actuator R2-16-90° W1620162180 Rotary actuator R2-16-180°

Dimensions for 180° rotation are given in brackets

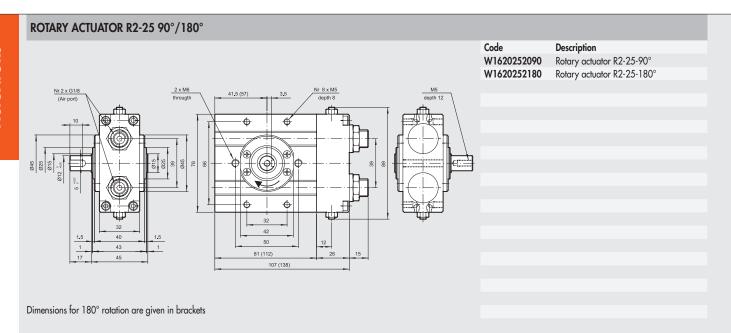
ROTARY ACTUATOR R2-20 90°/180°



Description Rotary actuator R2-20-90° W1620202090 W1620202180 Rotary actuator R2-20-180°

Code

Dimensions for 180° rotation are given in brackets



ACCESSORIES

SENSOR Ø 4



NOTES