

The RA is a double-acting rotary actuator of very compact design. It has a high torque and small installation dimensions. The actuator has double pistons, which transmit the turning moment to the output shaft.

The toothed piston rods act on the output shaft in a rack-and-pinion type arrangement. Each piston and toothed rod is of integral construction.

The rack-and-pinion type arrangement gives an even turning moment throughout the rotation movement.

- 90° or 180° rotation
- Shaft with key
- Uniform high torque in both directions



Operating information

Working pressure	Max 10 bar
Working temperature	-20 °C to +80 °C
Operation	Dry air, with or without lubrication

For technical information see CD

Rack & pinion type, RA series

Angle	Torque Nm at 6 bar	Port size	Order code
90°	22,8	G1/8	RA2-90
180°	22,8	G1/8	RA2-180
90°	45,0	G1/8	RA4-90
180°	45,0	G1/8	RA4-180
90°	81,70	G1/8	RA8-90
180°	81,70	G1/8	RA8-180
90°	134,0	G1/4	RA12-90
180°	134,0	G1/4	RA12-180
90°	224,0	G1/4	RA20-90
180°	224,0	G1/4	RA20-180



Design Variants

Single acting (90°)

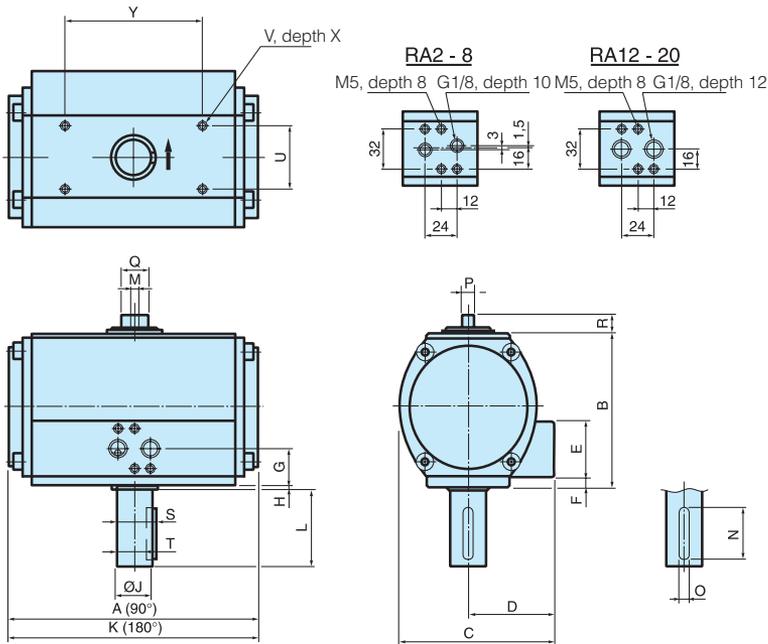
Non-standard turning angle

Other surface treatment



Indicates stocked product.

Dimensions (mm)



Type	A	B	C	D	E	F	G	H	ØJh8	K	L	M	N	O	P
RA2	114,5	73,0	75,5	43,5	41	-	20,5	4	14	169	30	M6	19	5	7,5
RA4	133,0	90,5	87,5	47,5	41	-	20,5	4	19	215	40	M6	31	6	7,5
RA8	162,0	109,0	105,0	57,0	42	7,5	28,5	4	19	245	40	M8	31	6	11,5
RA12	194,0	118,5	121,0	67,0	43	8,0	29,5	5	28	295	60	M8	48	8	11,5
RA20	218,0	140,5	136,5	72,0	43	8,0	29,5	5	28	337	60	M8	48	8	11,5

Type	Q	R	S	T	U	V	X	Y
RA2	13	10,0	16,0	11,0	32	M5	8	50
RA4	15	11,0	21,5	15,5	32	M5	8	73
RA8	17	13,5	21,5	15,5	40	M6	10	90
RA12	20	15,0	31,0	24,0	49	M6	10	107
RA20	25	15,0	31,0	24,0	60	M6	10	120