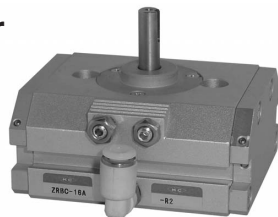


Clean Room Rotary Actuator ZRBC Series

Rack Type Ultra Compact Rotary Actuator



ZRBC-16A-R2

Key Features

- Rack type prevents air leakage
- 40% reduced size compared to the vane type for use in confined spaces
- "Stoppers," "pipes," and "sensors" are on the same surface
- Through hole for 2 mounting directions
- Locating pin holes to align easily when mounting

Clean packaging is not available

How To Order

Standard ----- ZRBC-16A

Option ----- ZRBC- **16A** - **R1** - **ET3S2** - **Z** ----- 90° swivel type ZRBC-16A with 2 of ET3 non-contact reed switches and special processing

Size		Angle		Sensor, Quantity				Option	
Symbol		Symbol	Specification	Symbol	Name	Symbol	Name	Symbol	Name
16A		R1	90°	ET3	Non-Contact 3-Lead	E24L *	Contact 2-Lead	Z	Special Type (Custom)
20A		R2	180°	ET3L	Non-Contact 3-Lead	E25 *	Contact 2-Lead		
25A				ET2	Non-Contact 2-Lead	E25L *	Contact 2-Lead		
30A				ET2L	Non-Contact 2-Lead	S1	1 Sensor		
				E24 *	Contact 2-Lead	S2	2 Sensors		

*Available only for 30AS

For sensor detail ▶ **277P**

For option detail ▶ **36P**

Specification

Model	ZRBC-16A	ZRBC-20A	ZRBC-25A	ZRBC-30A		
Working Pressure	Pneumatic: 0.15 to 0.7MPa					
Lubrication	Not Required or Turbine Oil Class 1 (ISOVG32)					
Ambient Temperature (°C)	5 to 60					
Swivel Time	0.1~1.5 $\frac{1}{90}$ °					
Swivel Angle	90°/180°					
Cylinder Diameter (mm)	dia.16×2	dia.20×2	dia.25×2	dia.30×2		
Swivel Torque (Nm-Theoretical Value)	1.72×P	3.40×P	6.36×P	11.12×P		
Allowable Load	Radial (N)	Fr	29.2	59	84	127
	Thrust (N)	Fsa	14.6	29.5	42	63.5
	Thrust (N)	Fsb	14.6	29.5	42	73
	Moment (N·m)	M	0.715	1.68	2.69	4.70
Kinetic Energy Capacity (J)	Standard	0.0146	0.0307	0.0479	0.0751	
	Absorber Option Available	0.68	0.68	0.68	0.68	
Weight (g)	R1	232	356	572	840	
	R2	266	444	726	1088	

Please go to P477 for Load Direction

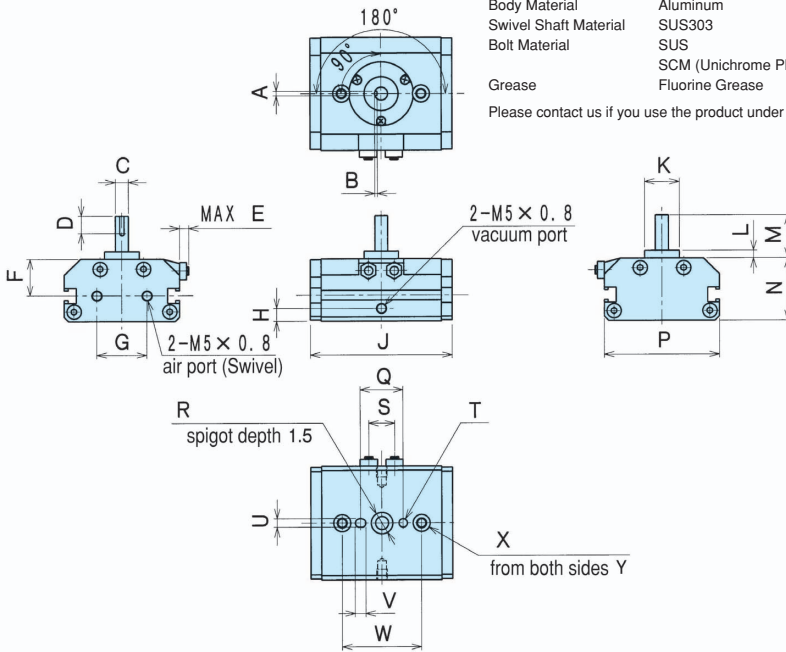
ZRBC-16A/20A/25A/30A

For CAD data, please go to **▶518P**

Layout Drawing

ZRBC-16A to 30A (Swivel Torque 0.86Nm to 5.56Nm)

ZRBC-□□A Standard



Body Material Aluminum
 Swivel Shaft Material SUS303
 Bolt Material SUS
 Grease SCM (Unichrome Plating)
 Fluorine Grease
 Please contact us if you use the product under special environment

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P
ZRBC-16A	2 ^{+0.025} ₀	1.2 ^{+0.1} ₀	dia.6 ⁰ _{-0.015}	8	5	17	23	5	66 (55)	dia.16 ⁰ _{-0.043}	3.5	20	29	53
ZRBC-20A	3 ^{+0.025} ₀	1.8 ^{+0.1} ₀	dia.8 ⁰ _{-0.015}	8.5	7	19	28	6	80 (62)	dia.20 ⁰ _{-0.052}	4.5	23	33	62
ZRBC-25A	4 ^{+0.03} ₀	2.5 ^{+0.1} ₀	dia.10 ⁰ _{-0.015}	12	8	23	35	7	98 (74)	dia.26 ⁰ _{-0.052}	3	25	38	73
ZRBC-30A	4 ^{+0.03} ₀	2.5 ^{+0.1} ₀	dia.12 ⁰ _{-0.018}	14	7	26	43	6	106 (78)	dia.28 ⁰ _{-0.052}	4	28	43	86

Model	Q	R	S	T	U	V	W	X	Y
ZRBC-16A	20	dia.10 ^{+0.032} ₀	12	dia.4 ^{+0.03} ₀ depth 4	4 ^{+0.03} ₀ depth 4	5	37	2-M5 through	dia.8 counterbore depth 4.4
ZRBC-20A	22	dia.12 ^{+0.043} ₀	14	dia.4 ^{+0.03} ₀ depth 4	4 ^{+0.03} ₀ depth 4	5	40	2-M6 through	dia.9.5 counterbore depth 5.4
ZRBC-25A	30	dia.15 ^{+0.043} ₀	17	dia.5 ^{+0.03} ₀ depth 5	5 ^{+0.03} ₀ depth 5	6	52	2-M8 through	dia.11 counterbore depth 6.5
ZRBC-30A	30	dia.18 ^{+0.052} ₀	19	dia.6 ^{+0.036} ₀ depth 6	6 ^{+0.036} ₀ depth 6	7	56	2-M8 through	dia.11 counterbore depth 6.5

*Values inside () are for 90° type