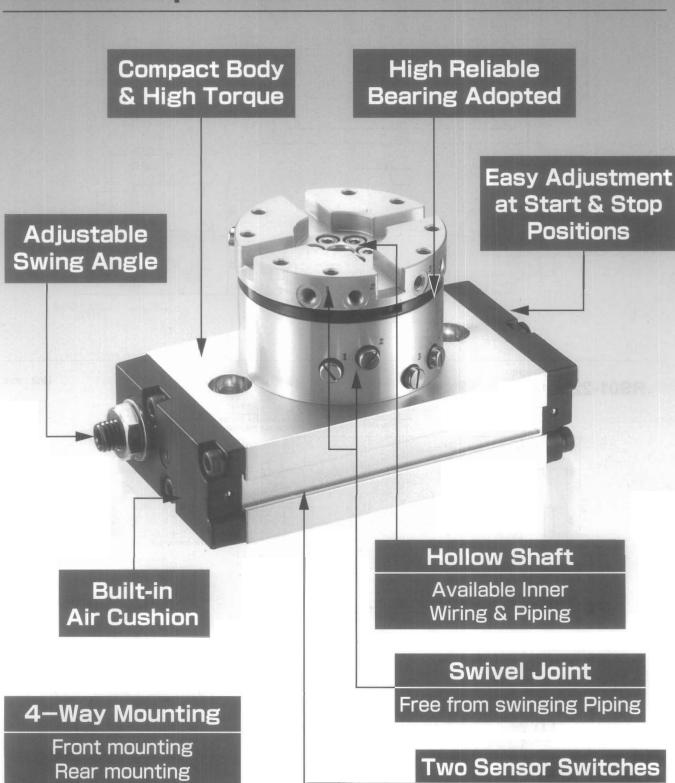
Rotary Actuator

Smooth Operation with Free Backlash



(Optional)

Bottom mounting

Through mounting

RT01 Series (B)

Model Code No.



Series Name

Standard Swing Angle

90: 90° 180:180°

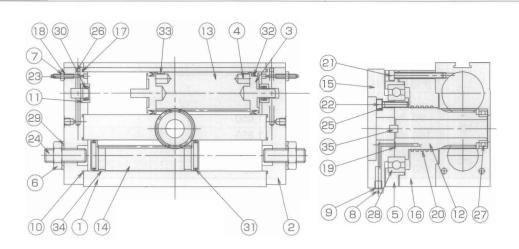
Cylinder Bore

18:18mm 22:22mm Stop Position Type

B: 2 stop position (with Air Cushion)

Sensor switch: Refer to "Selection from New-Era Sensor Switch" (Page 265)

Internal Structure



Parts List

No.	Name	Material	No.	Name	Material
1	Main Body	Aluminium Alloy	19	O Ring	NBR
2	Head Cover	Aluminium Alloy	20	O Ring	NBR
3	Piston	Brass	21	Slotted Head Screw	Carbon Tool Steel
4	Magnet	Resin	22	Slotted Head Screw	Carbon Tool Steel
5	Bearing Retainer	Mild Steel	23	Needle	Stainless Steel
6	Hexagonal Nut	Mild Steel	24	Slotted Head Screw	Carbon Tool Steel
7	Hexagonal Nut	Mild Steel	25	Spring Plate Washer	Carbon Steel
8	Plug	Mild Steel	26	Steel Ball	Mild Steel
9	Gasket	Mild Steel + NBR	27	Bearing	Bearing Steel
10	Gasket	NBR	28	Bearing	Bearing Steel
11	Packing Holder	Brass	29	Fastener Seal	Mild Steel+NBR
12	Pinion Rod	Carbon Steel	30	Packing	NBR
13	Rack	Stainless Steel	31	Packing	NBR
14	Rack Piston	Carbon Steel	32	Packing	NBR
15	Table (SwivelJoint upper)	Aluminium Alloy	33	Wearing	Teflon
16	Case (SwivelJoint lower)	Aluminium Alloy	34	Wearing	Teflon
17	O Ring	NBR	35	Key	Carbon Steel
18	O Ring	NBR			

RT01 Series (B)

Specifications

			RT01-18B-90 RT01-18B-180	RT01-22B-90 RT01-22B-180		
Stop Positions			2			
Cylinder Bore	(m	ım)	18+26	22+30		
Fluid			Air			
Operating Pressure	(N	IPa)	0.2~0.7			
Proof Pressure	(N	IPa)	1.05			
Ambient Temperaure (°C)			5~60			
Standard Swing Angle (°)			90 or 180			
Adjustable (°)			95			
Swing Angle	180° type		160~185			
Detecting (°)	90° ty	ре	Mas easth Manuschiceness pollur 20~95 manusches a natella datiwa normas			
Swing Angle (°)	180° type		20~185			
Cushion			Air Cushion			
Cushioning Angle (°) Permissible Kinetic Energy (J)			40			
			0.28	0.42		
Theoretical Torque * (N⋅m)			8.6×Operating pressure	14×Operating pressure		
Permissible Moment (N·m)			6.5	(E) (E) 10		
Permissible Radial Load (N)			185	430		
Permissible	(Pull)	N	175	400		
Thrust Load	(Push)	N	260	600		
Air Port Size			M5×0.8			
Main Body (a)	90° type		1,650	2,620		
Weight (g)	180° type		1,650	2,620		
Inner Volume	90° type		27	44		
(one cycle) (cc)	180° type		55	89		

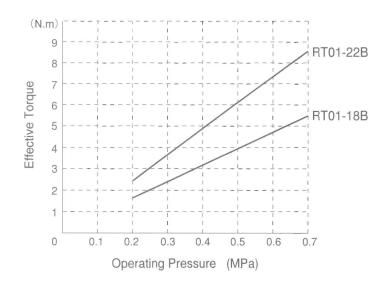
For the swing angle beyond the Standard Swing Angle (180°), consult New-Era Co., Ltd.

The above Adjustable Swing Angle is recommendatory.

The above "Detecting Swing Angle" is shown the Swing Angle Range datected by Sensor Switches.

A speed controller is recommended to control a swing speed.

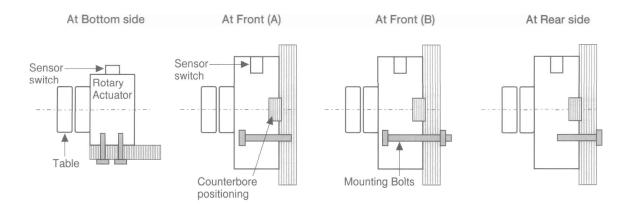
■Effective Torque



^{*} Theoretical Torque can be calculated by the following formula using Operating Pressure (MPa). (Example): Theoretical Torque (N \cdot m) = (Coefficient in the above list) \times (Operating Pressure, MPa)



Installation Examples



	Specifiocations of Mounting holes / thread							
	At Bottom side	At Front (A)	At Front (B)	At Rear side				
RT01-18B	4×M5×0.8 Depth 7	2×M10×1.5 Through Counterbored ∮14 Depth 8.5		2×M10×1.5 Through				
RT01-22B	4×M6×1 Depth 8	2×M10×1.5 Counterbored	2×M10×1.5 Through					

Series (B)

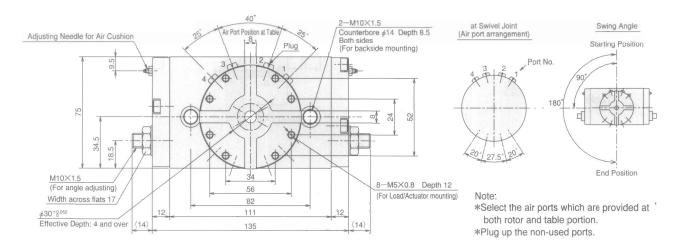
Dimensions

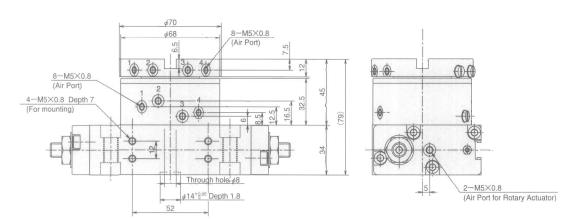
Unit: mm

RT01-18B-90

Weight

1,650g RT01-18B-180 1,650g

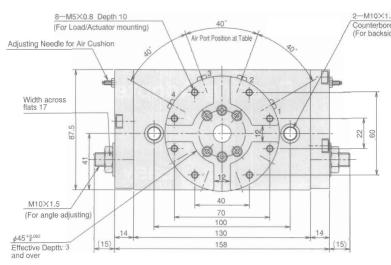


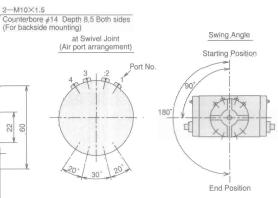


Dimensions

Unit: mm

RT01-22B-90 Weight 2,620g RT01-22B-180 2,620g





Note:

- *Select the air ports which are provided at both rotor and table portion.
- *Plug up the non-used ports.

