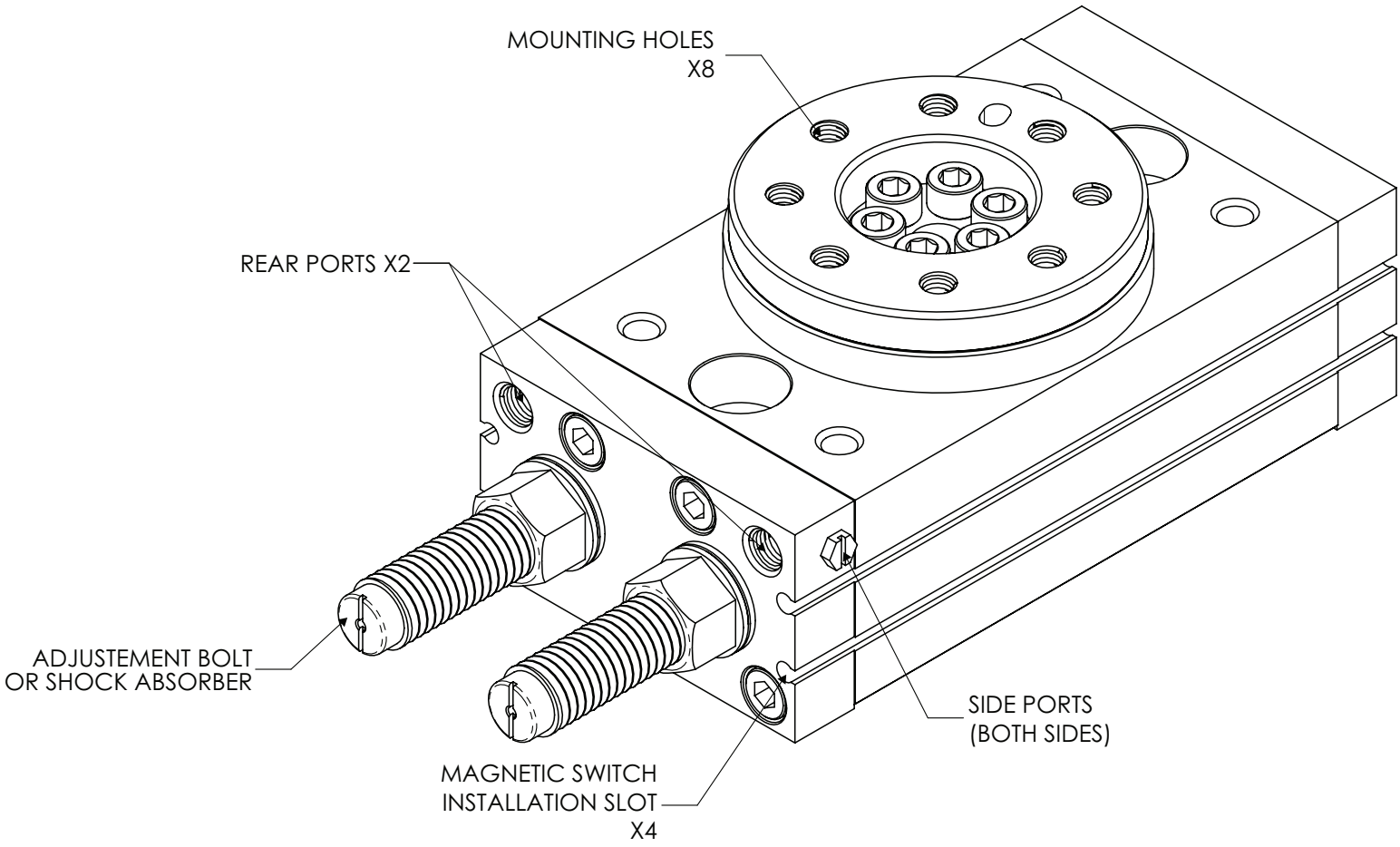
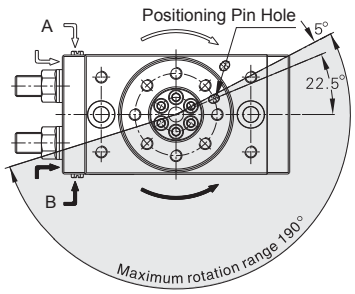


SEE PRODUCT DRAWINGS FOR DIMENSIONS

Rotary Actuators

Installation

Rotation Direction:

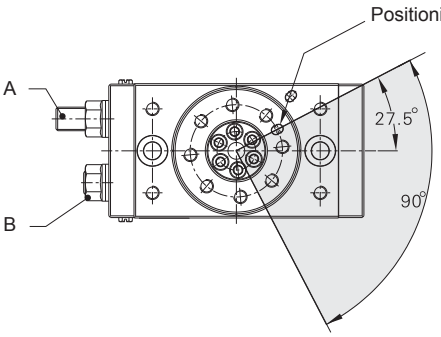


The rotation end can be set within the range by adjusting the adjustment bolt as shown in the above drawing. Note: the maximum rotation range is 190°.

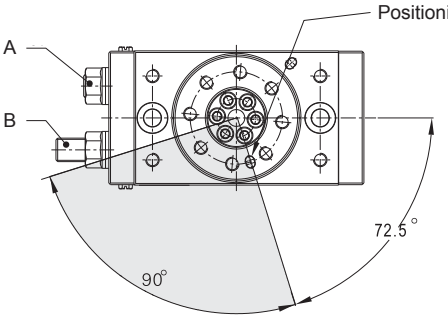
- When the A port is pressurized the rotary table turns in the clockwise direction when B port is pressurized the table turns in the counter-clockwise direction.

Rotation Range Example (90° Rotation):

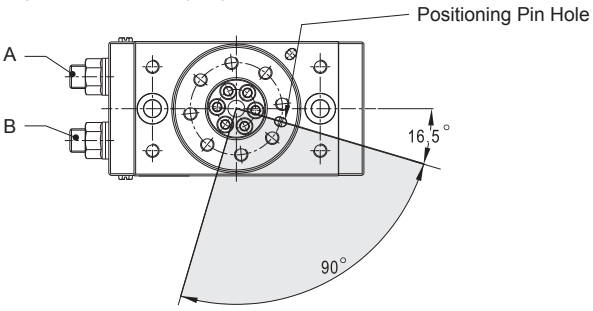
Adjustment amount by adjustment bolt B



Adjustment amount by adjustment bolt A



Adjustment amount by adjustment bolt A, B



On units with internal shock absorbers the rotation angle can also be set, see the chart below:

Model	*Adjustment Angle Per Full Turn of Adjustment Screw or Shock Absorber*
J10MD-M(A)	10.2°
J20MD-M(A)	6.5°
J30MD-M(A)	6.5°
J50MD-M(A)	8.2°

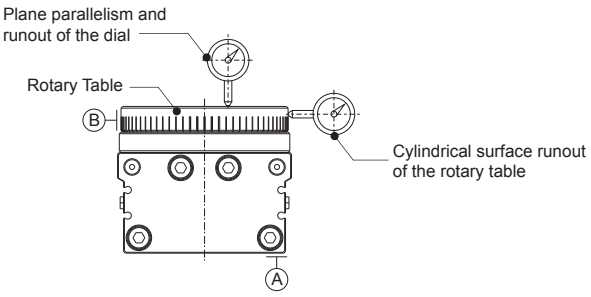
Notes:

- The rotation angle has been adjusted to the maximum angle at the factory.
- To prevent damage to internal components the movement energy should not exceed the allowed maximum energy. See selection guide.
- No further lubrication will be required on the rotary parts.
- As the units are equipped with a rubber bumper or shock absorber it is recommended to perform rotation adjustment in the pressurized condition (min. operation pressure: 0.1 Mpa (14.5 psi) or more for adjustment bolt and internal shock absorber types, and 0.2 MPa (29 psi) or more for external shock absorber type.)
- Refer to the table below for tightening torques of the shock absorber setting nut:

Part Number	*Shock Absorber Size*	*Max. Tightening Torque (Nm [lb·ft])*
J10M-SA	M10	3.5 [2.58]
J2030M-SA	M12	8.0 [5.90]
J50M-SA	M14	11.0 [8.11]

- **To prevent oil loss, do not loosen the bottom screw of the shock absorber as it is NOT an adjustment screw.**
- When a decrease in energy absorption capacity is noticed the shock absorbers should be replaced (sold separately).

When loaded, the requirements of the following table must be met to ensure the proper operation of the rotary table:



Items	*Specific Requirements (mm)*	*Relative Datum*
Plane parallelism of the dial	0.1	A
Plane runout of the dial	0.1	A
Cylindrical surface runout of the dial	0.1	A