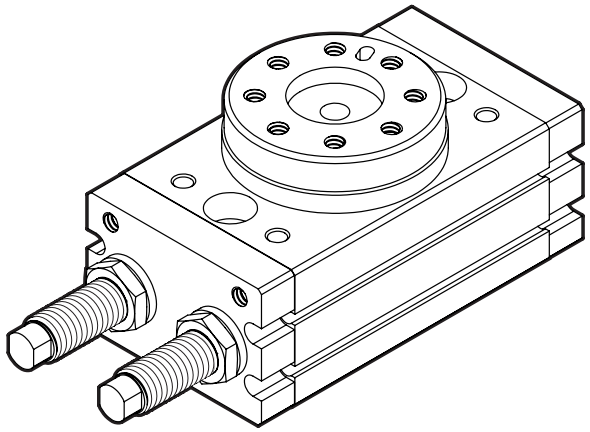
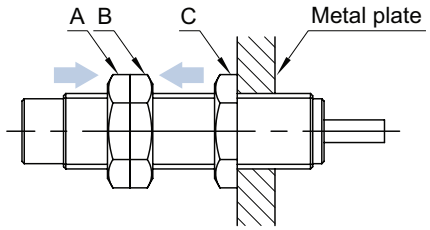
MCRQ2 Installation

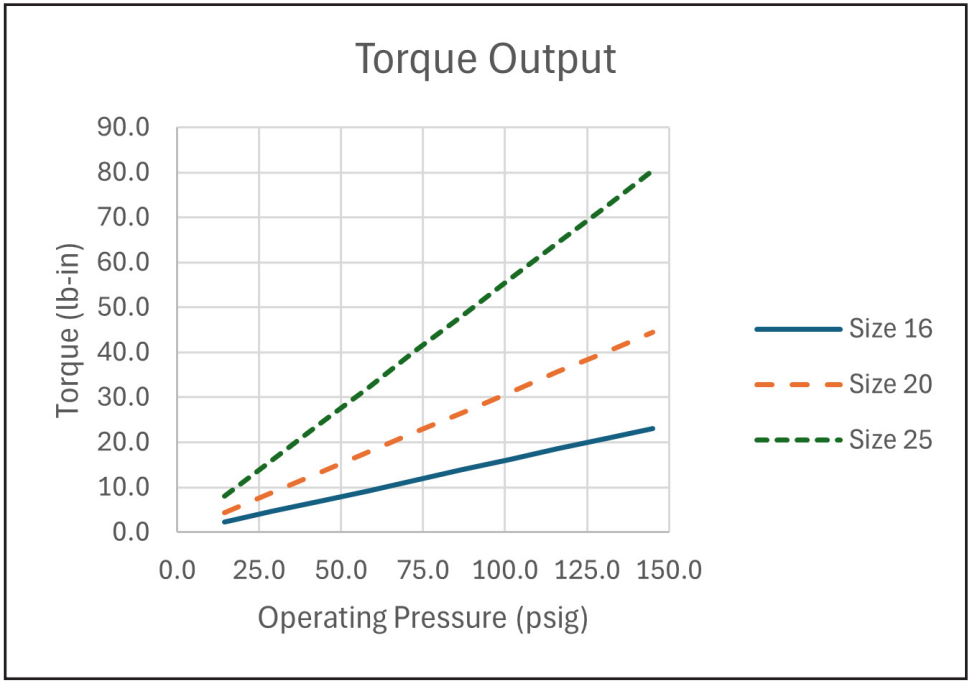


Shock Absorber Installation Guide

1. Install 3 nuts on the shock absorber as shown in the picture.
2. Bind the A nut and B nut together by tightening against each other.
3. Hold B nut and rotate C nut to bind the plate and C nut together.
4. Unbind the A nut and B nut. The installation is complete.
5. For the tightening torque of the fixed nut of the shock absorber, please refer to the table below.

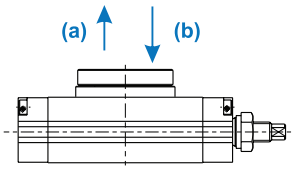
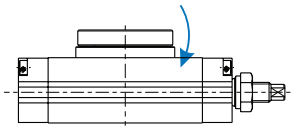


Tube I.D.	*Max. Tightening Torque*
16	1.67 Nm (0.74 lb-ft)
20	3.14 Nm (2.32 lb-ft)
25	10.8 Nm (7.97 lb-ft)



MCRQ2				
Size		*16*	*20*	*25*
Operating Pressue (psig)	14.5	2.3	4.4	8.1
	29.0	4.6	8.9	16.0
	43.5	6.9	13.3	24.1
	58.0	9.2	17.8	32.0
	72.5	11.6	22.2	40.3
	87.0	13.9	26.6	48.2
	101.5	16.2	31.0	56.3
	116.0	18.5	35.6	64.3
	130.5	20.8	40.0	72.3
	145.0	23.1	44.5	80.4

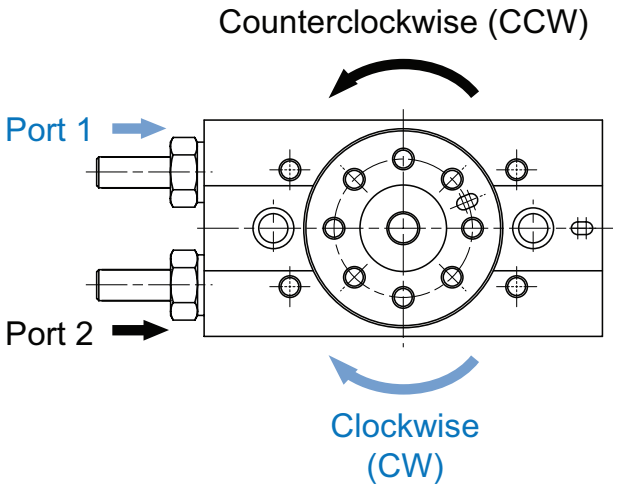
Allowable Load

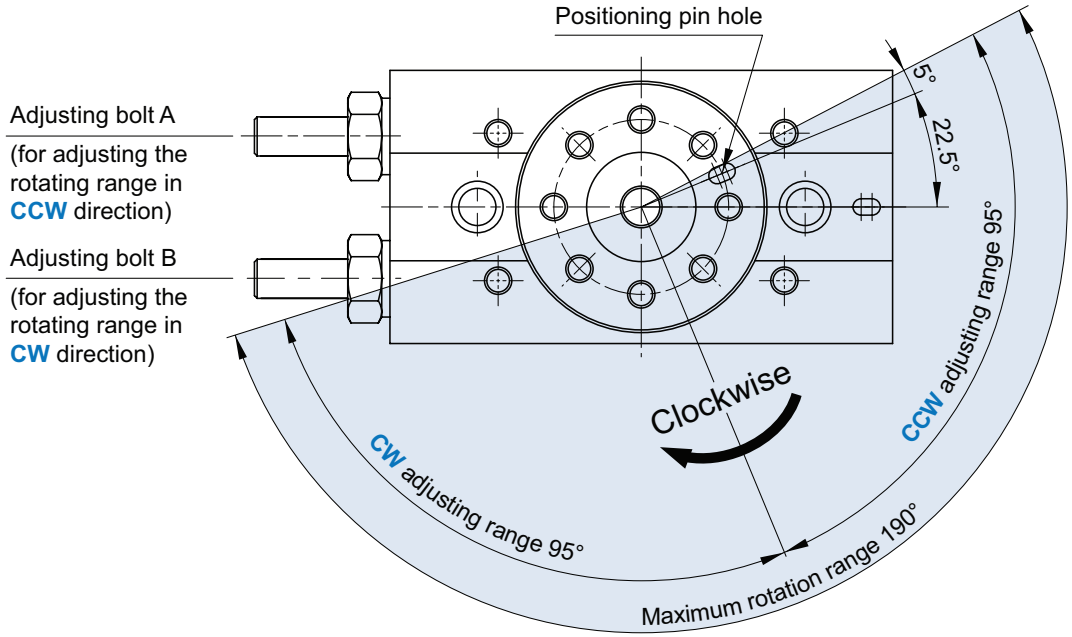
Pictures			
Tube I.D.	Allowable Radial Load	Allowable Thurst Load	Allowable Moment
		(a)	(b)	
16	78N (17.5 lbf)	74N (16.5 lbf)	78N (17.5 lbf)	2.4 Nm (21.2 in-lb)
20	196N (44 lbf)	197N (44 lbf)	363N (81.5 lbf)	5.3 Nm (46.9 in-lb)
25	314 N (70.5 lbf)	296N (66.5 lbf)	451N (101 lbf)	9.7 Nm (85.8 in-lb)

Rotating direction and angle

- When the port 1 is pressurized, the flange rotates in clockwise (CW) direction.
- When the port 2 is pressurized, the flange rotates in counter-clockwise (CCW) direction.

  The rotating angle range can be adjusted by the method shown on the following page.





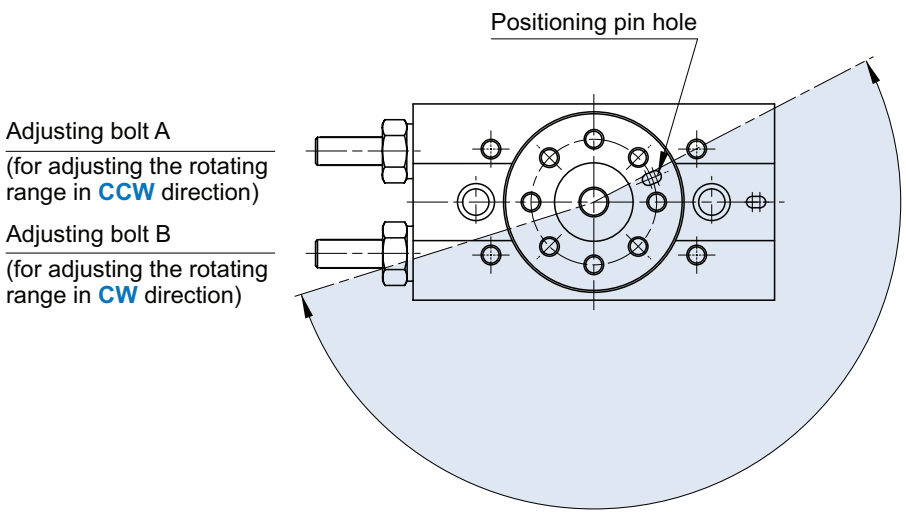
NOTE

- The figure shows the rotating range and use the pin hole as indicator.
- The pin hole position in the figure locates at the situation which the CCW & CW rotating range are both adjusted at 90°.

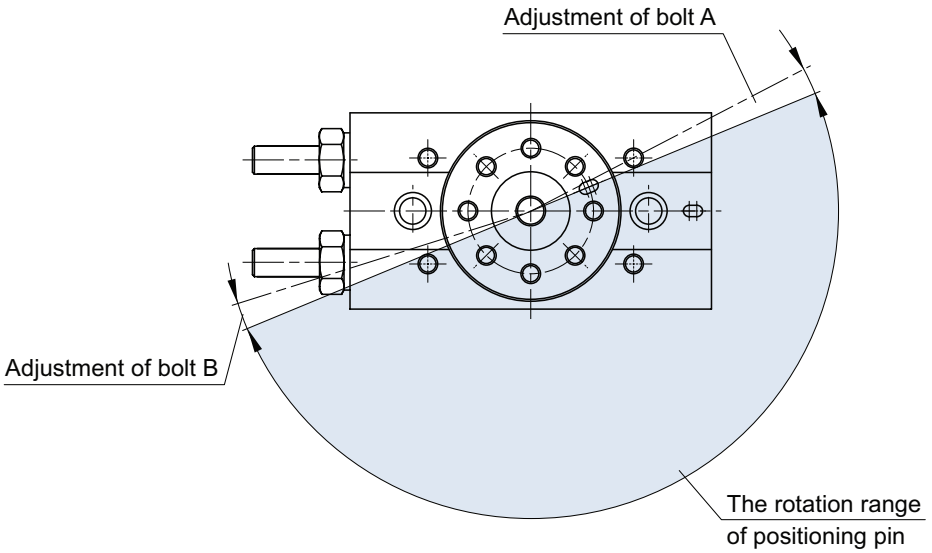
Rotating range adjusting example

- The followed figures show the rotating range of different adjustment via bolt A and B. (The drawings also show the rotation ranges of the positioning pin hole.)

190° (Max) Rotation



180° Rotation



90° Rotation