

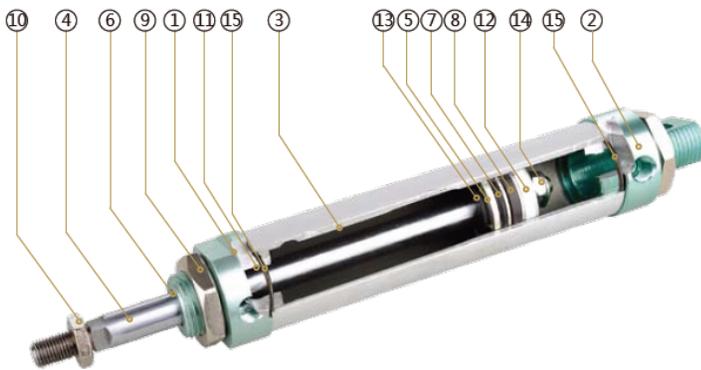


Warning: STC Air Cylinders are designed FOR AIR FLOW ONLY. Please refer to www.StcValve.com for more detailed information, including mounting bracket dimensions, cylinder dimensions, and shaft dimensions.

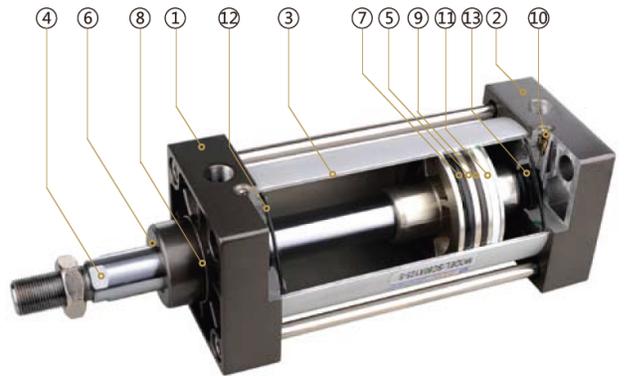
General Installation Instructions

- Install fittings on cylinder body
- Slowly push a clean, perpendicularly cut tube into fitting until it comes to a dead stop.
- Pull the tubing back gently until the grip ring or collet of the fitting grips onto the tubing and provides a good seal.
- Mount the cylinders securely to mounting surface.

MA/MAL Internal Components



SC/SU Internal Components



Item	Name	MA Series Cylinder Material	MAL Series Cylinder Material	Quantity
1	Front Cover	Hard Anodized Aluminum	Hard Anodized Aluminum	1
2	Back Cover	Hard Anodized Aluminum	Hard Anodized Aluminum	1
3	Barrel	Stainless Steel	Hard Anodized Aluminum	1
4	Piston Rod	Chromed Carbon Steel	Chromed Carbon Steel	1
5	Piston	Aluminum	Aluminum	1
6	Piston Rod Seal	NBR	NBR	1
7	Piston Seal	NBR	NBR	1
8	Magnet	Ferric Magnet	Ferric Magnet	1
9	Front & Rear Cover	Carbon Steel	Carbon Steel	1
10	Piston Rod Screw	Carbon Steel	Carbon Steel	1
11	Bearing	Non-Lube Bearing	Non-Lube Bearing	1
12	Anti-Friction Ring	PTFE	PTFE	1
13	Cushing Gasket	NBR	NBR	2
14	Fixing Screw	Carbon Steel	Carbon Steel	1
15	Cover Seal	NBR	NBR	2

Item	Name	Material	Quantity
1	Front Cover	Polymer Coated Aluminum	1
2	Back Cover	Polymer Coated Aluminum	1
3	Cylinder Barrel	Anodized Aluminum	1
4	Piston Rod	Chromed Carbon Steel	1
5	Piston	Aluminum	1
6	Piston Rod Seal	NBR	1
7	Piston Seal	NBR	2
8	Bearing	Non-Lube Bearing	1
9	Magnet	Ferric Magnet	1
10	Cushion Screw	Brass	2
11	Anti-Friction Ring	PTFE	1
12	End Cap Seal	NBR	2
13	Cushion Seal	NBR	2

MA/MAL Round Cylinder Technical Data

Bore (mm)	12	16	20	25	32	40
Motion Pattern	Double Action/Single Action					
Working Medium	Air					
Fixed Type	Basic Type/LB Type/FA Type/SDB Type					
Operating Pressure	Double Acting: 14 to 130 PSI (1.0~9.0 bar); Single Acting: 29 to 130 PSI (2.0~9.0 bar)					
Ensured Pressure Resistance	195 PSI (13.5bar)					
Operating Temperature	0 to 70 °C					
Operating Speed	50 ~ 800mm/s					
Buffer Type	Spacer Buffer	Adjustable Buffer (MA and MAL only have spacer buffer)				
Port Size	M5x0.8			G 1/8		G 1/4