

iPolymer | Air Cylinders

Air Cylinders

Air Cylinders are used where splash-back or fumes from highly aggressive chemicals are prime concerns. These Polypropylene or PVDF cylinders provide strength, durability and reliability in severe service actuation applications near corrosive chemicals.

Air cylinders are available in strokes from 1–16 inches and have standard easy-to-use mounting and optional position sensors. Our Air Cylinders are design to drive: 90 lbf | 400 N | 40.8 kg.

The weight an Air Cylinder can push and pull depends on the orientation, sliding surface friction, gravity, desired speed, travel distance, available air pressure, the pneumatic circuit design, and other factors.

Specifications

Cylinder Bore	1.25"
Port Connections	1/8 FNPT
Min. Actuation Pressure (psi)	20
Max. Actuation Pressure (psi)	80
Max. Ambient Temperature	
- Polypropylene	160° F / 70° C
- PVDF	212° F / 100° C
O-Rings Material	FKM (Viton Eq.)
Rod Style Thru Hole (in)	1/8

Ordering

Part	Materials	Stroke (in)
AC-POL-1VTVTA	Natural Polypro	1
AC-POL-2VTVTA	Natural Polypro	2
AC-POL-3VTVTA	Natural Polypro	3
AC-POL-4VTVTA	Natural Polypro	4
AC-POL-5VTVTA	Natural Polypro	5
AC-POL-6VTVTA	Natural Polypro	6
AC-POL-7VTVTA	Natural Polypro	7
AC-POL-8VTVTA	Natural Polypro	8
AC-POL-9VTVTA	Natural Polypro	9
AC-POL-10VTVTA	Natural Polypro	10
AC-POL-11VTVTA	Natural Polypro	11
AC-POL-12VTVTA	Natural Polypro	12
AC-POL-16VTVTA	Natural Polypro	16
AC-POL-15VTVTA	Natural Polypro	15
AC-PVDF-08VTVTA	PVDF	8

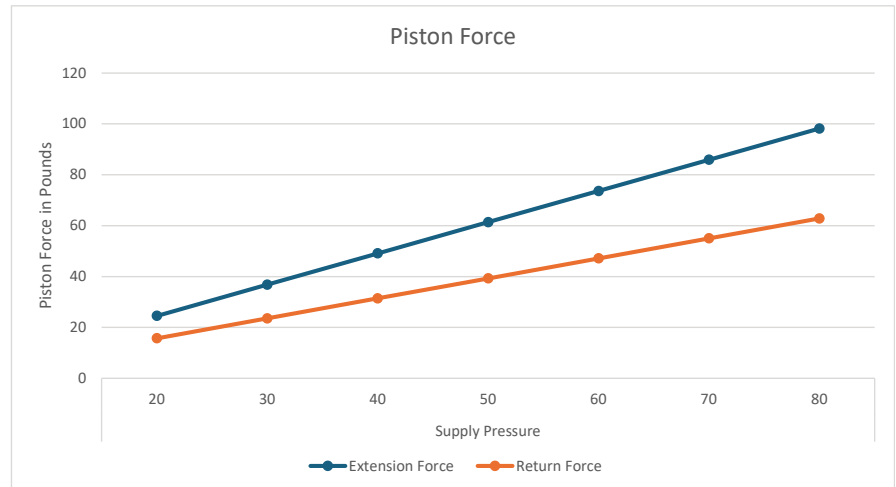
Lengths >7 inches require minimum order quantities.
Clevis bracket with stainless steel screws available.

Applications

- Remotely actuate doors, drawers
- Actuate drains and vents
- Repositioning of process loads



Performance



*Some efficiency loss is associated with exhaust rate and friction loss due to O-ring drag expected. Design systems accordingly with minimum 10X safety margin.

Dimensions

