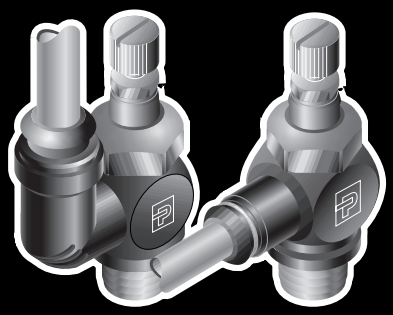


Right Angle Flow Control Valves

General Information

Parker offers a wide range of flow controls to meet a large variety of applications. Parker flow controls are designed for mounting directly onto the cylinder ports to provide precise control of piston rod speed. Due to their compactness they are particularly suitable for applications where space is at a premium.

General Principle

The piston rod moves as a result of the pressure differential on either side of the piston. The speed of the rod is normally determined by the exhaust air flow from the cylinder, although certain applications require control from the inlet. The control of the air flow is via an adjustable flow control valve installed on the exhaust port.

Operation

The mounting of two flow controls on a cylinder permits speed control of the cylinder rod in both directions. Air passes freely through the flow control valve A, with the check valve in the open position. The exhaust is controlled by the flow control valve B, where the check valve in the closed position forces the air to go through the adjustable needle valve. The function of A and B are reversed when inlet air is applied to port B.

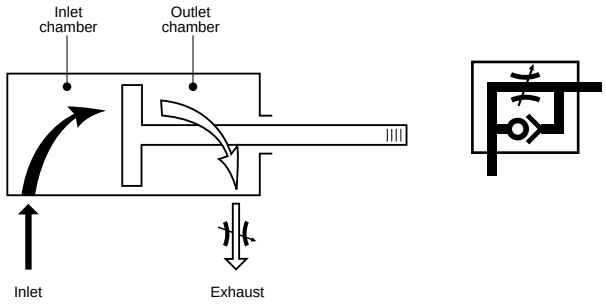
Advantages

- Direct mounting
- Compact
- Positional
- Optimum flow control
- Swivel outlet for use where access is restric

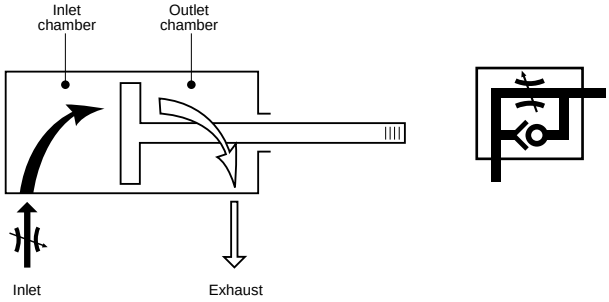
Valve Specifications

Maximum working pressure: 145 PSI
Operating Temperature: - 10° to 200° F
Body Material: Brass black epoxy coated
Bolt Material: Brass

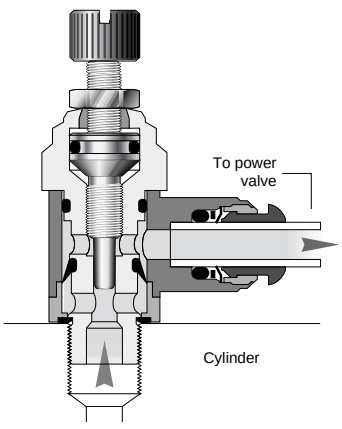
THREAD SIZE	MAXIMUM ASSEMBLY TORQUE FT.-LB
10-32 UNF	0.37
1/8 NPTF	9
1/4 NPTF	17
3/8 NPTF	26
1/2 NPTF	34

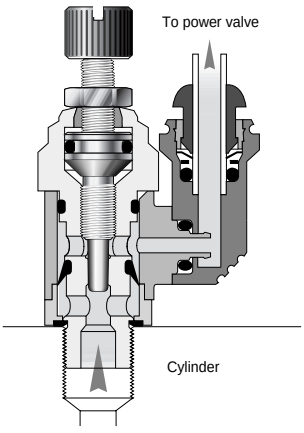


Flow regulation on the exhaust port

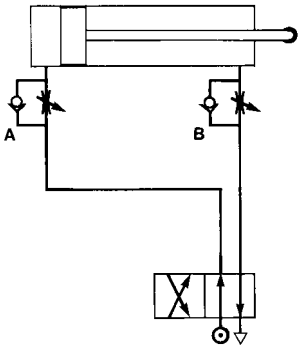


Flow regulation on the inlet port





Flow control on a double acting cylinder



Parker Hannifin Corporation
Parker Brass Products Division