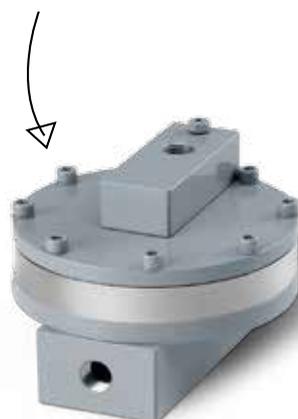


AV: Volume Booster

The Volume Booster (model AV), available sizes 1/4" and 3/4", is designed to meet high speed control valve applications. It produces a high volume boosting action and contains an integral stabilizing by-pass valve controlled by a screwdriver adjustment in the body. By opening this valve it is possible improve the stability of the pneumatic circuit made up of a positioner, volume booster(s) and actuator.

Increased environment protection



AV 1/4" aluminium

Key features

Exclusive manifold mounting system. It is a special STI application to connect our accessories. Fittings or nipples are not necessary as the connection is achieved using machined connection faces with sealing 'o' ring. This system saves time for assembly, reduces cost on items such as fittings, reducing inventory and the shortened dimensions save space.

- > Suitable for:
 - Standard, offshore, sandstorm and copper-free ambient conditions
 - Single and double acting actuators
 - Low and high ambient temperature

Benefits

- > **Safety**
The regulation screw cannot be ejected by the internal air pressure. The regulation screw is accurate and lockable
- > **Increased environment protection**
The exhaust is protected by double differentiated mesh
- > **Cost saving**
Suitable for one air connection to feed both volume boosters on a double acting actuator
- > **Design advantages**
Less leakage, more repeatability. Using a conical plug seat with controlled deformation for elastomeric air-tight



AV 1/4" aluminium manifold mounting

Technical specifications for AV 1/4"

Housing materials

Painted RAL 7001 aluminium
Stainless steel 316

Operating temperature*

-20°C to 70°C
-40°C to 70°C available on request
-20°C to 85°C available on request

Diaphragm material

Elastomeric reinforced fabric

Pilot signal connection

1/4" NPT

CV max

Inlet = 1
Outlet = 1

Operating pressure

P min = 3 bar
P max = 7 bar
Design pressure = 10 bar

Output connections

Manifold mounting
1/4" NPT

Feeding connections

1/4" NPT

Options

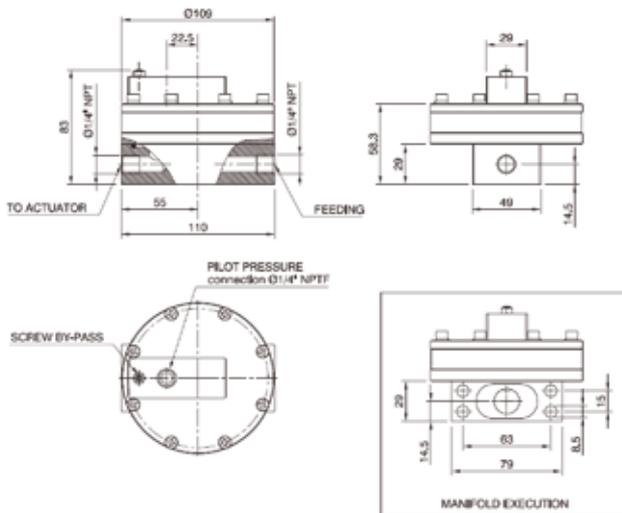
Collected exhaust
Silencer

Weight

Aluminium = 1.2kg
Stainless steel 316 = 3.3kg

* Lower or higher temperature available on request

Dimensional drawing for AV 1/4"



AV 1/4" stainless steel 316 manifold mounting

Technical specifications for AV 3/4"

Housing materials

Painted RAL 7001 aluminium
Stainless steel 316

CV max

Inlet = 4.5
Outlet = 3

Options

Collected exhaust
Silencer

Operating temperature*

-20°C to 70°C
-40°C to 70°C available on request
-20°C to 85°C available on request

Operating pressure

P min = 3 bar
P max = 7 bar
Design pressure = 10 bar

Weight

Aluminium = 4kg
Stainless steel 316 = 10.3kg

Diaphragm material

Elastomeric reinforced fabric

Output connections

Manifold mounting
3/4" NPT

* Lower or higher temperature available on request

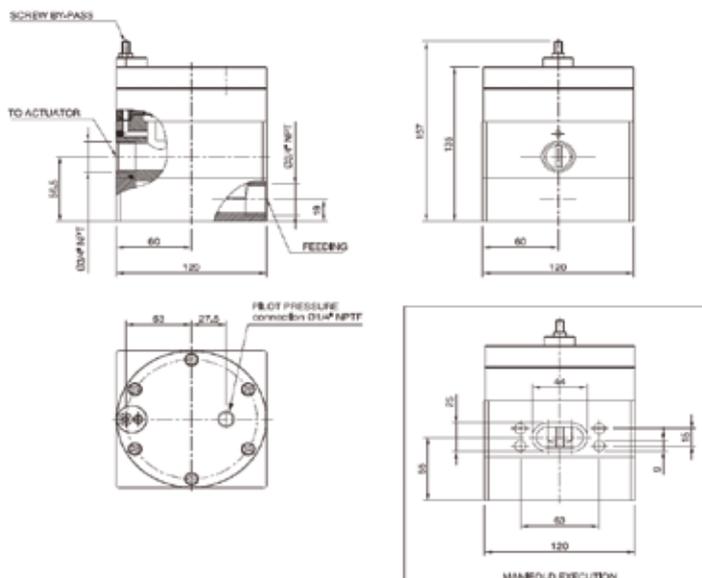
Pilot signal connection

1/4" NPT

Feeding connections

3/4" NPT

Dimensional drawing for AV 3/4"



AV 3/4" aluminium