

# 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.

*Small and lightweight*



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 (-4°F to 158°F)  
-40°C to 70°C (-40°F to 158°F)  
-20°C to 85°C (-4°F to 185°F)

### 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

