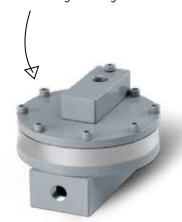
# AV: Volume Booster

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

AV 1/4" aluminium manifold mounting

#### **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

# 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)

# Diaphram 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

#### **Output connections**

Design pressure = 10 bar

Manifold mounting 1/4" NPT

#### **Feeding connections**

1/4" NPT

#### **Options**

Collected exhaust Silencer

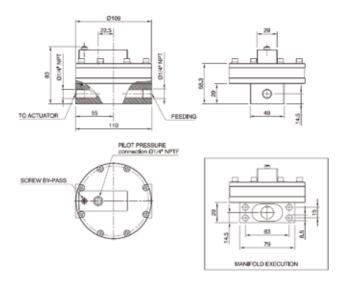
### Weight

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

### 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)

#### Diaphram material

Elastomeric reinforced fabric

# Pilot signal connection

1/4" NPT

SCREW BY-PASS

#### CV max

Inlet = 4.5 Outlet = 3

### **Operating pressure**

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

#### **Output connections**

Manifold mounting 3/4" NPT

## Feeding connections

3/4" NPT

#### **Options**

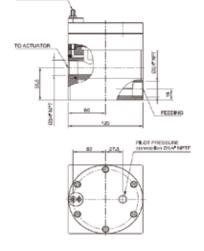
Collected exhaust Silencer

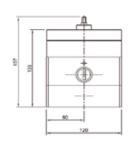
### Weight

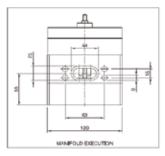
Aluminium = 4kg Stainless steel 316 = 10.3kg

\* Lower or higher temperature available on request

# Dimensional drawing for AV 3/4"









AV 3/4" aluminium