



Product description

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.

Advantages

- Safety more sensibility more accuracy
 Regulation screw is not ejectable by internal air pressure.
 Regulation screw is accurate and lockable.
- Environment protection increase

 Exhaust 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 conical plug seat with controlled deformation for elastomeric air-tight.

Key features

Suitable for

- Standard, Offshore, Sandstorm, copper free ambient condition.
- Single and double acting actuators.
- Low and high ambient temperature.

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.



Technical specifications - Model AV 1/4"



AV 1/4" ALUMINUM Manifold mounting



AV 1/4" STAINLESS STEEL 316 Manifold mounting



AV 1/4" ALUMINUM

Housing materials

- Painted RAL 7001 aluminum
- Stainless steel 316

Operating temperature*

- -20°C / +70°C
- -40°C / +70°C available on request
 -20°C / +85°C available on request

Operating pressure

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

Pilot signal connection

• 1/4" NPT

Options

- Collected exhaust
- Silencer

CV Max

- Inlet = 1
- Outlet = 1

Diaphragm material

• Elastomeric fabric reinforced

Output connections

- Manifold mounting
- 1/4" NPT

Feeding connections

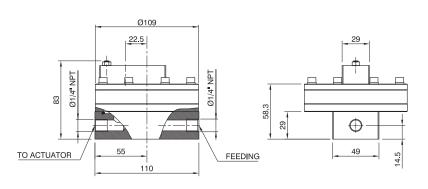
• 1/4" NPT

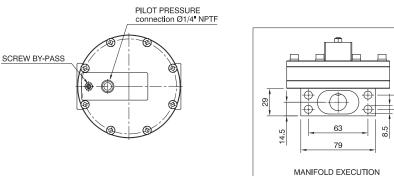
Weight

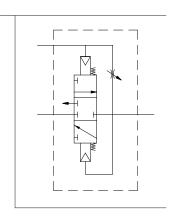
- Aluminum = 1,2 kg
- Stainless steel 316 = 3,3 kg

(*) Lower or higher temperature available on request.

Dimensional drawing









Technical specifications - Model AV 3/4"



AV 3/4" ALUMINUM

AV 3/4" ALUMINUM

Manifold mounting

Housing materials

- Painted RAL 7001 aluminum
- Stainless steel 316

Operating temperature*

- -20°C / +70°C
- -40°C / +70°C available on request
 -20°C / +85°C available on request

Operating pressure

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

Pilot signal connection

Collected exhaust

• 1/4" NPT

Options

• Silencer

CV Max

- Inlet = 4,5
- Outlet = 3

Diaphragm material

• Elastomeric fabric reinforced

Output connections

- Manifold mounting
- 3/4" NPT

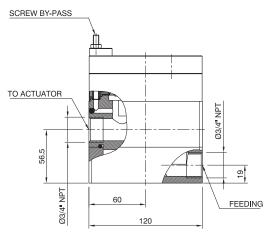
Feeding connections

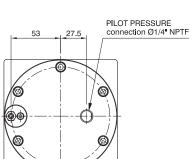
• 3/4" NPT

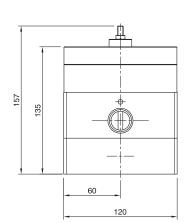
Weight

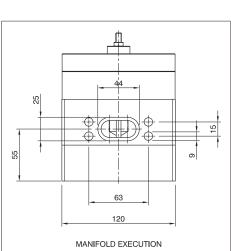
- Aluminum = 4 kg
- Stainless steel 316 = 10,3 kg

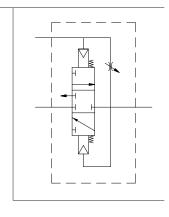
Dimensional drawing













^(*) Lower or higher temperature available on request.