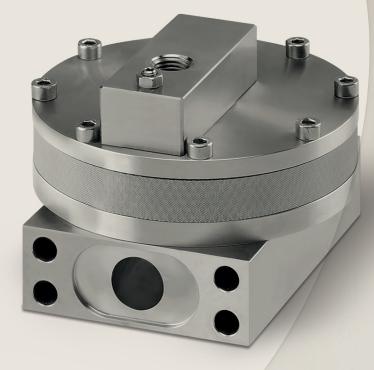
Process Automation

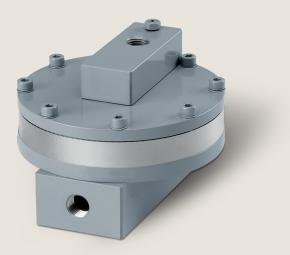
IMI STI

AV Volume Booster





Breakthrough engineering for a better world





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.

Product 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.

Pilot signal connection

1/4" NPT

CV max

lnlet = 1

Outlet = 1

P min = 3 bar

P max = 7 bar

Operating pressure

Design pressure = 10 bar



AV 1/4" aluminium manifold mounting.

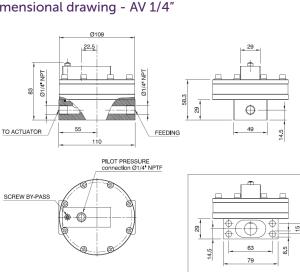
Technical specifications - AV 1/4"

Housing materials Painted RAL 7001 aluminium Stainless steel 316

Operating temperature* -20°C to 70°C -40°C to 70°C -20ºC to 85ºC

Diaphram material Elastomeric reinforced fabric

Dimensional drawing - AV 1/4"



Technical specifications-r AV 3/4"

Housing materials Painted RAL 7001 aluminium Stainless steel 316

Operating temperature* -20°C to 70°C -40°C to 70°C -20ºC to 85ºC

Diaphram material Elastomeric reinforced fabric Pilot signal connection 1/4" NPT CV max

MANIFOLD EXECUTION

Inlet = 4.5Outlet = 3

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

Output connections

Feeding connections

Collected exhaust

Manifold mounting

1/4" NPT

1/4" NPT

Options

Silencer

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

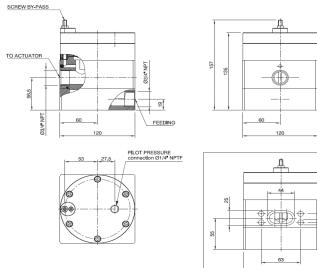
Weiaht Aluminium = 1.2kg Stainless steel 316 = 3.3kg

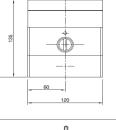
* Lower or higher temperature available on request

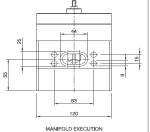


AV 1/4" stainless steel 316 manifold mounting.

Dimensional drawing - AV 3/4"









AV 3/4" aluminium.

Benefits

The regulation screw cannot be ejected by the internal air pressure. The regulation screw is accurate and lockable.

The exhaust is protected by double differentiated mesh.

Suitable for one air connection to feed both volume boosters on a double acting actuator.

Less leakage, more repeatability. Using a conical plug seat with controlled deformation for elastomeric air-tight.

Process Automation

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