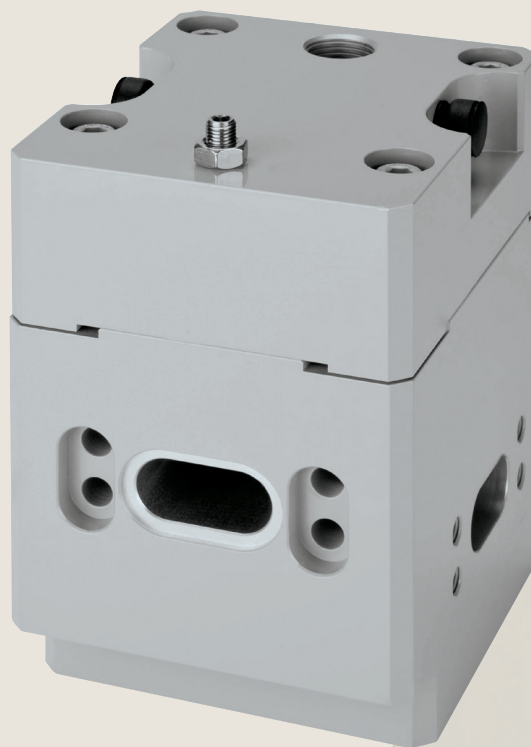


# Process Automation

IMI STI

BV

Big Volume Booster





BV

## Big Volume Booster

The Big Volume Booster (model BV) is designed to meet high speed control applications. It produces a high volume boosting action and contains an integral stabilizing by-pass valve, adjusted by a screwdriver turning the adjustment screw in the body. By opening this valve it is possible to improve the stability of the positioner – volume booster – actuator circuit.

BV was specifically designed to be piloted by a high CV positioner (such as our FT Positioner).

## 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.

## Technical specification

Housing materials  
Painted RAL 7001 aluminium  
Stainless steel 316

CV max  
Inlet = 8  
Outlet = 8

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

Output connections  
Manifold mounting

Feeding connections  
Manifold mounting

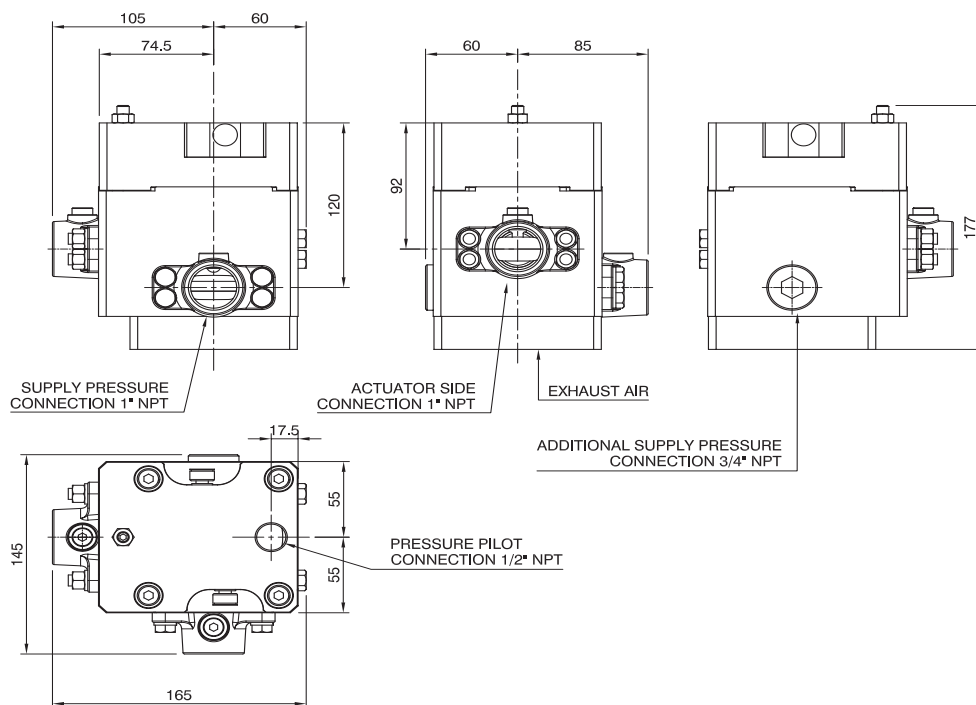
Pilot signal connection  
1/2" NPT

Weight  
Aluminium = 5kg  
Stainless steel 316 = 12.5kg

Operating pressure  
P min = 2.5 bar  
P max = 7 bar  
Design pressure = 10 bar

\* Lower or higher temperature available on request.

## Dimensional drawing



## Benefits

Regulation screw is not ejectable by internal air pressure. Regulation screw is accurate and lockable.

Unique high value of CV in one device.  
**Unique metal piston design** without deformable diaphragm.

Collectable exhaust (For silencer/protection/check valve).

Compact dimensions compared with other high CV options available.

# Process Automation

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