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).

Compact design

Aluminium manifold mounting

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

> **Big CV**
Unique high value of CV in one device

> **Unique metal piston design**
Without deformable diaphragm

> **Collectable exhaust**
(Silencer/protection/check valve). Suitable for SL exhaust protection system

> **Compact design**
Compact dimensions compared with other high CV options available

Stainless steel 316 manifold mounting

Technical specification

Housing materials
Painted RAL 7001 aluminium
Stainless steel 316

Operating temperature*
-20ºC to 70ºC
-40ºC to 70ºC available on request
-20ºC to 85ºC available on request

Pilot signal connection
1/2" NPT

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

CV max
Inlet = 8
Outlet = 8

Output connections
Manifold mounting

Feeding connections
Manifold mounting

Weight
Aluminium = 5kg
Stainless steel 316 = 12.5kg

* Lower or higher temperature available on request

The best levels of performance are achieved when the booster is piloted by our FT Smart Positioner (see dedicated brochure)

Dimensional drawing