

# BR: Booster Relay

The Booster Relay (BR) is designed to meet conventional speed control applications. It produces a volume boosting action and contains an integral stabilising by-pass valve, adjusted by 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.

BR was specifically designed to be piloted by a digital-pneumatic valve controller (such as our FTC Positioner featured at the bottom of this page).



## Key features

- > Suitable for:
  - Standard, offshore, sandstorm and copper-free ambient conditions
  - Single and double acting actuators
  - Low and high ambient temperature
  - PED 2014/68/UE and ATEX 2014/34/UE

## Benefits

- > **Safety**  
Regulation screw is not ejectable by internal air pressure. Regulation screw is accurate and lockable.
- > **High flow rate**  
Unique high Cv value comparing other 1/2" boosters.
- > **Unique metal piston design**  
Without deformable diaphragm.
- > **Collectable exhaust**  
Collectable exhaust (for silencer/ protection/check valve).
- > **Compact design**  
Compact dimensions compared with other boosters on the market.



## FasTrak Compact Smart Positioner

The best levels of performance are achieved when the booster is piloted by our FTC Smart Positioner.

- > Powerful self calibration software with the ability to totally personalise the parameters
- > Set of configurable embedded features
- > Robust design with metal housing
- > Remote control software downloadable free of charge on our company website.

More information available at [www.imi-critical.com](http://www.imi-critical.com)



## Technical specification

### Housing materials

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)\*

### Pilot signal connection

1/4" NPT

### Operating pressure

P min = 3 bar  
 P max = 7 bar  
 Maximum supply pressure = 10.4 bar  
 Pressure containment = up to 15 bar

### CV max

Inlet = 3.8  
 Outlet = 4

### Supply/ output connections

1/2" NPT

### Exhaust connection

3/4" NPT

### Weight

1.6kg

\* Available on request

## Dimensional drawing

