



Booster regulator

High efficiency type

VBAF Series +

RoHS

Increase factory air pressure by 4 times!



MAIN FEATURES

Boosting efficiency has been optimised

Enable equipment downsizing

Compact, lightweight bodies and the ability to raise pressure locally instead of upsizing cylinders or compressors.

50 million cycles or more

Maintenance frequency is reduced due to improved life.

ENERGY EFFICIENCY DIGITAL SHEET

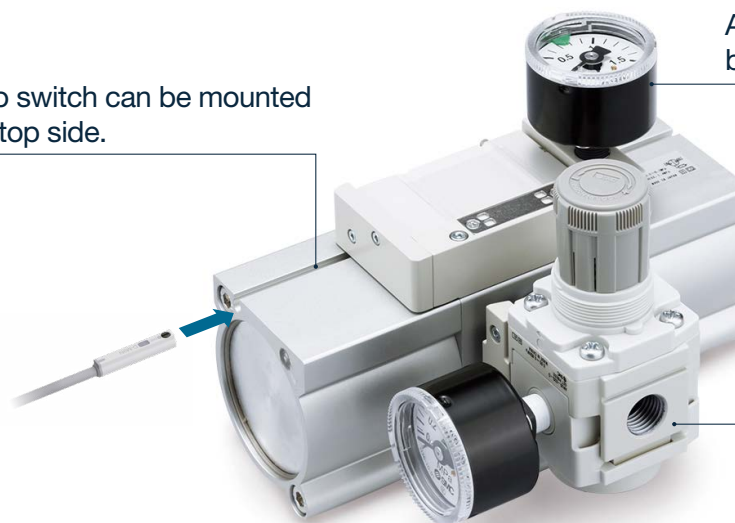


Cut your costs

Up to 30 % reduction of air consumption.

Air-only operation requires no power supply, and allows easy installation

An auto switch can be mounted on the top side.



A pressure gauge can be mounted (OUT side).

A regulator can be mounted.

VBAF case study

Following the launch of the VBAF, a high-pressure leak test application in a HVAC system manufacturing facility. After assessing the initial operating cycle and existing booster regulator performance, the VBAF was implemented on several condenser leak test lines at 2 factories. The result was up to 30 % lower air consumption, 30 % higher maximum flow, 60 % faster filling time, and extended service life from 30 to 50 million cycles compared with existing boosters.

Key customer benefits:

- Proposal of new production of condenser air flow tester high-pressure equipment for pressure booster valve (test condition 1.5 MPa)
- The factory's main pressure is 0.5 MPa, and the booster ratio means this does not need increasing for the sake of the test cell.

Investment **385 €**

Annual saving **153 €**

ROI **30.2 months**

Annual CO₂ reduction **1,135 kg**

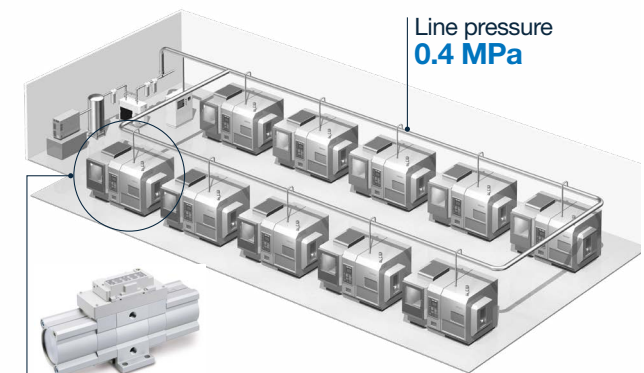
SELECTED PART NUMBERS

Part number	Port size	Pressure increase ratio	Option
VBAF10-F02	G1/4	2 times	None
VBAF10-F02G			OUT side pressure gauge
VBAF11-F02		4 times	None
VBAF11-F02G			OUT side pressure gauge
VBAF20-F03	G3/8	2 times	None
VBAF20-F03G			OUT side pressure gauge
VBAF20-F03GB			OUT side pressure gauge + Air tank mounting bolt
VBAF21-F03		4 times	None
VBAF21-F03G			OUT side pressure gauge
VBAF21-F03GB			OUT side pressure gauge + Air tank mounting bolt

APPLICATIONS

Excellent to avoid raising the line pressure due to certain machines or applications:

- Filler and capping machines
- Labelling systems requiring stable high pressure
- Work holding clamps
- Small pneumatic presses
- Riveting and staking applications
- Pressure decay testing
- Component integrity testing
- Valve and fitting verification
- Increasing cylinder force without uprising actuators
- Retrofitting systems where space is limited
- Mould closing assist
- Ejector boost applications
- New machinery added to older compressed air systems
- Applications needing temporary or intermittent higher pressure
- Local boosting at critical points of use
- Reducing overall compressed air consumption
- Maintaining lower plant-wide compressor pressure.



Power supply not required

Local pressure increase **0.8 MPa**