



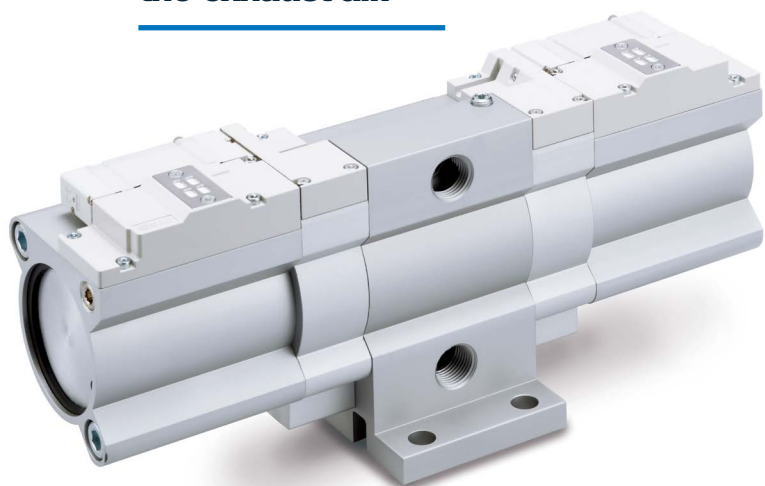
Booster regulator

Low air consumption

VBAE Series +

RoHS

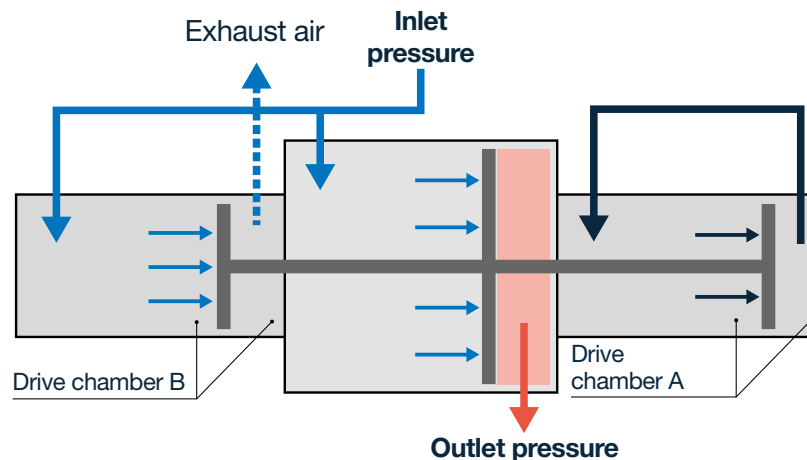
**Driven by reusing
the exhaust air.**



MAIN FEATURES

**Air consumption reduced by max.
40 %**

3 piston construction.



**Operates by recycling air through
the exhaust return circuit**

The air consumption of the drive
chamber on one side (A or B) is "0."

**50 million operation cycles or
more**

Maintenance frequency is reduced due
to improved life.

**Charging time reduced by max.
50 %**

Operation noise: 65 dB (A)

**Compatible with vertical and
horizontal installation**

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

VBAE case study

At a customer's bottling plant, a new 200 ml soda packaging line required 6.4 bar for the PET filler machinery, while the site compressor operated at 5.4 bar. To avoid increasing central pressure, SMC installed three VBAE energy-saving booster regulators in parallel to locally raise pressure at the filling station and prevent production downtime.

By maintaining compressor pressure at 5.4 bar, the brewery saved approximately 2,500 kWh per day. Compared with the conventional booster regulators, the VBAE reduced air consumption by 30 %, lowered maintenance frequency by 60 % with a 50-million-cycle life and achieved a 25 % noise reduction.

Key customer benefits:

- Factory pressure reduction
- Reduction of downtime.

Investment

5,610 €

Annual saving

43,659 €

ROI

1.5 months

Annual CO₂ reduction

37,313 kg

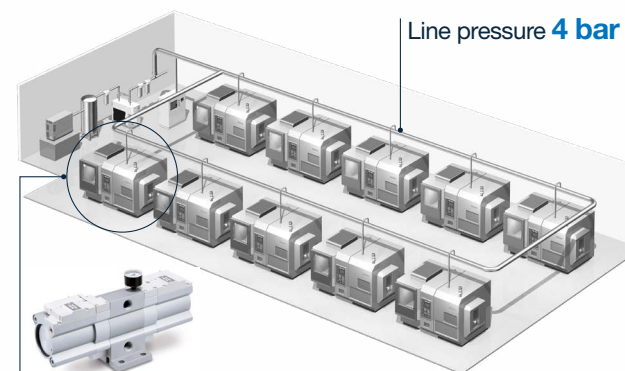
SELECTED PART NUMBERS

Part number	Port size	Option
VBAE10-F02	G1/4	None
VBAE10-F02G	G1/4	OUT side pressure gauge
VBAE20-F04	G1/2	None
VBAE20-F04G	G1/2	OUT side pressure gauge
VBAE20-F04BG	G1/2	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 upsizing 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 **6 bar**



Discover more

