

Booster circuit

CO₂ emissions
(Air consumption)

33 %
reduction

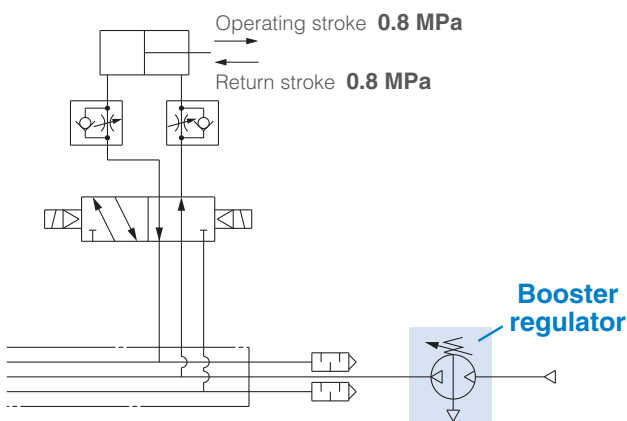
Air consumption can be reduced by **33 %** due to the optimisation of the booster circuit.



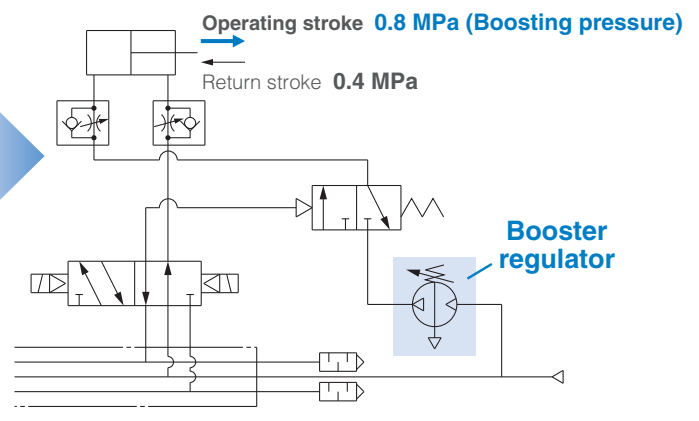
Boost an insufficiently powered portion with a booster regulator

- Optimised booster circuit: Now with a space-saving booster circuit

Example of a two-side booster circuit



Example of a one-side booster circuit
(Boosting pressure on the operating stroke only)



Existing circuit

Bore size: Ø 50
Stroke: 200 mm
Pressure: 0.4 MPa
Boosting pressure: 0.8 MPa

Air consumption:
13 l/cycle (ANR)

When it is operated
900000 times/year

11700 m³/year (ANR)
CO₂ emissions: **686 kg/year**
(141.01 €/year)

Effects of
energy
saving

Energy-saving circuit

When boosting pressure is on the
extension side only
Retraction: 0.4 MPa
Extension: 0.8 MPa (Boosting pressure)

Air consumption:
8.7 l/cycle (ANR)

When it is operated
900000 times/year

7830 m³/year (ANR)
CO₂ emissions: **459 kg/year**
227 kg reduction in annual CO₂ emissions
(94.41 €/year)
(46.60 €/year reduction)

Existing circuit

Energy-saving circuit

33 %
reduction

Corresponding value: Air unit 0.012 €/m³ (ANR), Air – CO₂ conversion factor 0.0586 kg/m³ (ANR)