

Gas booster package for pressure controllers and piston gauges

MNR 170 GAS BOOSTER PACKAGE

PLUG AND PLAY GAS BOOSTER PACKAGE: INCLUDING THE GAS BOOSTER KIT AND CONNECTION MATERIALS.

The Minerva booster package provides a safe, simple and complete solution to the challenge of very high gas pressure supply generation. It generates up to 103 Mpa gas pressure by boosting the input from a lower gas source, such as a gas bottle. Operations is hands free and self regulating. The booster package is intended to be used as the high-pressure source for calibration and test systems, particularly high pressure gas controllers/calibrators and piston gauges.

- Safe, simple and complete solution for high pressure gas generation
- No electrical power required
- Designed for use with high pressure gas controllers and piston gauges
- Different version available with different pressure outputs depending to match your requirement
- Proven reliability, easy to maintain and robust
- Efficient way to use nitrogen bottles pressure and boost it up to required level

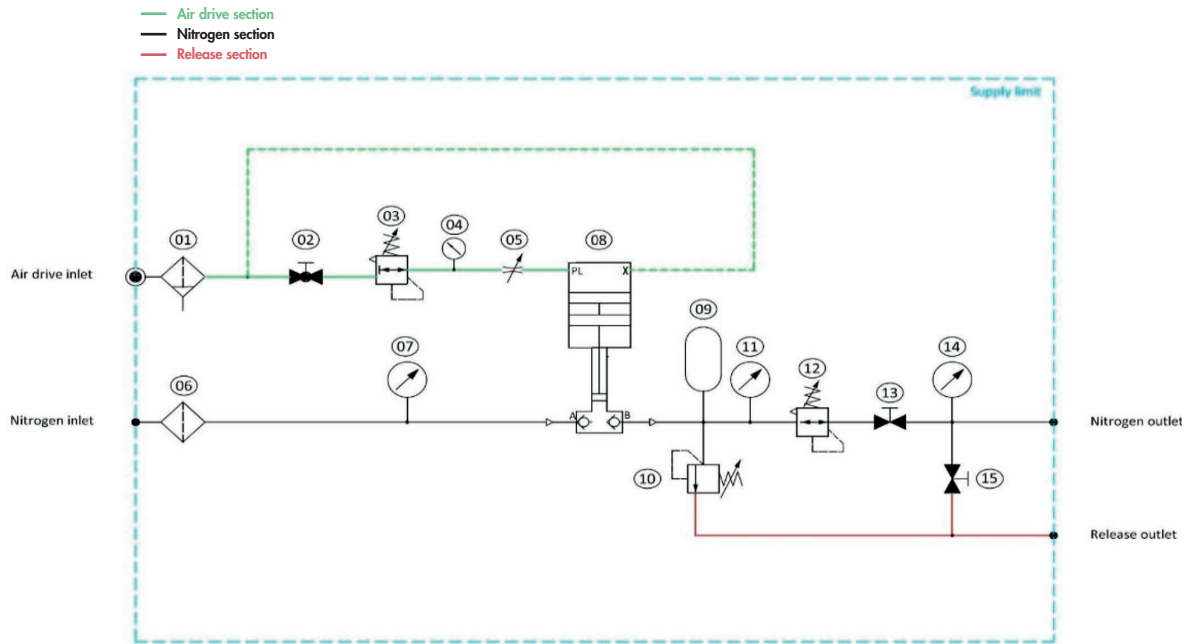


The Minerva booster package generates high gas pressure from a lower gas pressure. The booster is a two-stroke single stage, reciprocating pump that operates continuously until the ratio of the drive air on the low pressure piston and the pressure on the high pressure piston is in equilibrium.

The output pressure is defined by the drive pressure which the user sets with the built-in regulator and gauge. On the high pressure side an accumulator followed by a high pressure regulator dampens the effect of the booster cycling, assuring a stable and continuous output of pressure.

The high pressure gauge allows the user to observe the high pressure regulator setting.

THIS IS HOW IT WORKS - GAS BOOSTER PACKAGE SCHEMATIC:



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|--|---------------------------------|---------------------------------|
| (1) Drive air inlet filter | (6) High pressure inlet filter | (11) Buffer pressure gauge |
| (2) Start/stop ball valve | (7) Inlet pressure gauge | (12) High pressure regulator |
| (3) Drive air regulator 0-10 bar | (8) Booster | (13) High pressure block valve |
| (4) Drive air pressure gauge 0- 10 bar | (9) Buffer, 63 cc | (14) High pressure outlet gauge |
| (5) Speed regulator | (10) High pressure safety valve | (15) High pressure relief valve |

Specifications	MNR-170-30 MPa	MNR-170-60 MPa	MNR-170-100 MPa
Regulated high pressure output	Max. 30 MPa	Max. 60 MPa	Max. 103 MPa
Gas supply pressure	Min. 10 bar/Max. 300 bar	Min. 20 bar/Max. 300 bar	Min. 50 bar/Max. 300 bar
Booster ratio	Supply pressure x 30	Supply pressure x 60	Supply pressure x 150
Shop drive air required	Min. 1 bar / Max. 10 bar	Min. 1 bar / Max. 10 bar	Min. 1 bar / Max. 10 bar
Medium	Nitrogen	Nitrogen	Nitrogen
Safety valve setting	30 MPa	60 MPa	103 MPa
Buffer	1 liter, 36 MPa	63 cc, 155 MPa	63 cc, 155 MPa
High pressure regulator	0,3-41 MPa	1.4-69 MPa	2-103 MPa
Dimensions LxWxH	970x430x460 mm	970x430x460 mm	970x430x460 mm
Weight	55 kg	55 kg	55 kg
Ordering code	MNR-170-30MPa	MNR-170-60MPa	MNR-170-100MPa

your distributor:

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