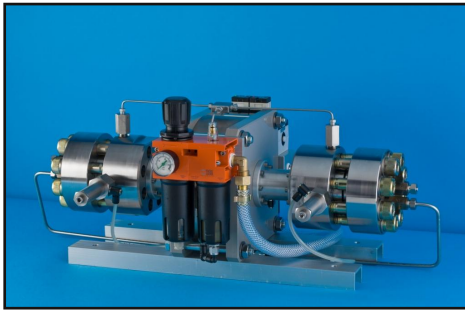


PNEUMATIC BOOSTER



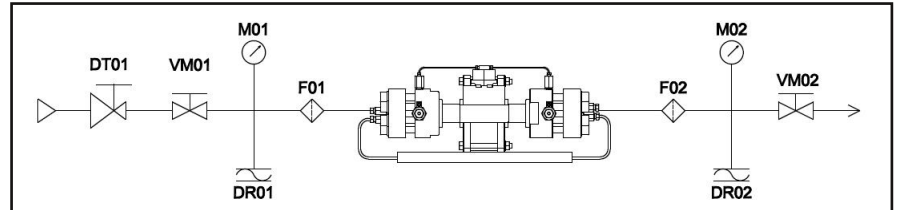
USES:

The purpose of TOP INDUSTRIE boosters is to increase the pressure of a gas. They work for gases entering the booster with a minimal pressure of at least 25 bar, and can increase the pressure at exit point to up to 3500 bar. Both one stage and two stage boosters exist. A special version which is suitable for use with hydrogen is also available. Electric versions of these devices exist with a slightly higher flow capacity.

FEATURES :

- Air consumption 70 Nm³ / h. max.
- Maximum speed 100 strokes /min.
- 1000 bar cylindrical head: 4,54 cm³.
- 3500 bar cylindrical head: 1,53 cm³.
- Delivered with a filter regulator-lubrificator (FRL) for compressed air.
- Weight 1 head: 34 kg. ; 2 heads : 51 kg
- 1 / 8" or 1 / 4" HP Tubing.
- Air entry connexion : 1 / 2" Gas.

DIAGRAM OF MINIMAL CIRCUIT REQUIRED TO INSTALL BOOSTER



MAXIMAL PRESSURE	NUMBER TIER	NUMBER OF HEADS	ASPIRATION PRESSURE		HYDROGEN REFERENCE	STANDARD REFERENCE
			bar (mini)	bar (maxi)		
1 000	1	1	25	190	619 10 00	609 10 00
3 500	1	1	50	190	619 11 00	609 11 00
3 500	2	2	25	100	619 12 00	609 12 00
1 000	2	2	25	190	619 13 00	609 13 00

- Gas is not contaminated thanks to stainless steel double membrane.
- All parts of the booster which come into contact with the gas are made from stainless steel.
- For use for all inert gases (hydrogen is optional).
- Maximal air pressure: 6 bar.
- Optimal performance when air pressure is 4.5 bar.
- The piston is operated according to pneumatic logic, (anti-deflagrating)
- Equipped with an independent command button which allows the booster to be turned on or off without intervening on the FRL or having to interrupt the air supply.
- Working speed can be varied whatever the compressed air pressure
- Each membrane head is protected from excess pressure by a safety valve.
- We recommend that a filter (Ref No 920 90 00) be used at the booster entrance.

OTHER OPTIONS :

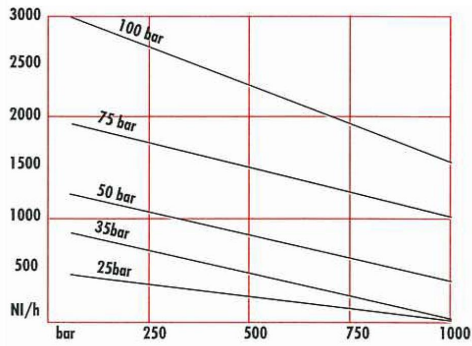
- Command unit which controls the booster and allows pressure to be regulated between 2 selected values
- Programming unit for one or more pressure ramp slopes and one or more tiers



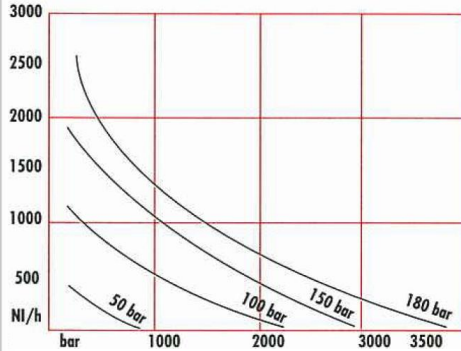
PNEUMATIC BOOSTER

FLOW CURVES

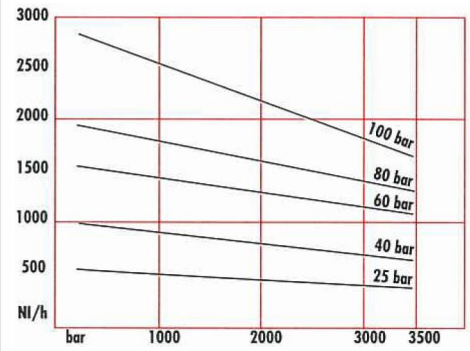
BOOSTER 1000 bar 1 TIER



BOOSTER 3500 bar 1 TIER

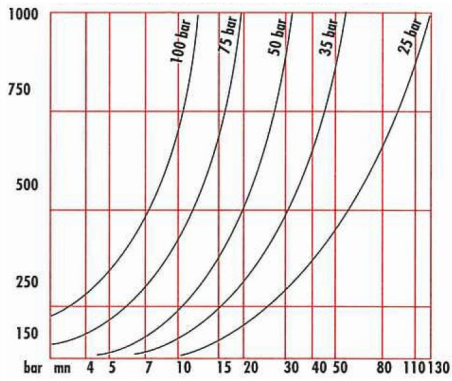


BOOSTER 3500 bar 2 TIER

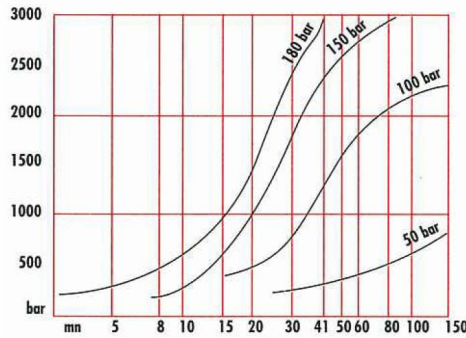


TIME NECESSARY TO RAISE A VOLUME OF 1 LITRE TO A GIVEN PRESSURE

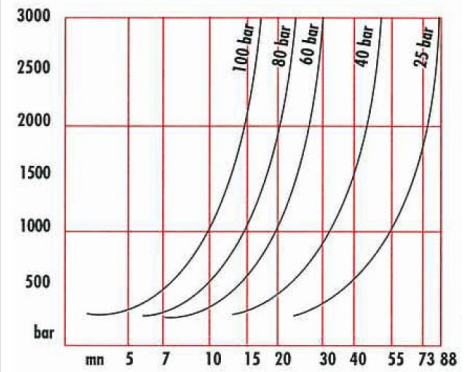
BOOSTER 1000 bar 1 TIER



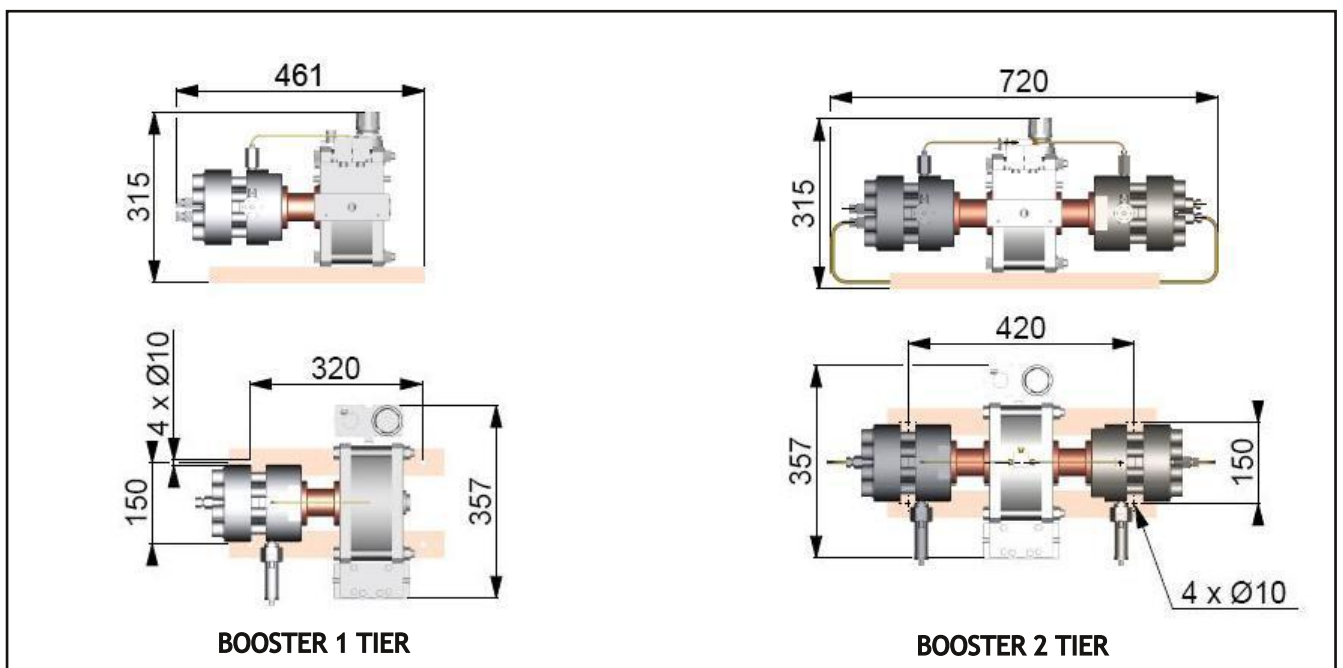
BOOSTER 3500 bar 1 TIER



BOOSTER 3500 bar 2 TIER



The rates at which pressure increases, have been measured using 70 cm³ of nitrogen at 20°C



In view of possible technological advances in our production methods, the products described in this manual are liable to be modified without prior notice.

