

Subject: New Nitrogen Booster Pump	Date: 5/9/2018	Issue: 18-05 Nitrogen Booster Pump
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HYSON Metal Forming Solutions announces a new, compact nitrogen booster pump to enable higher charging pressure for high pressure springs and manifold systems. The booster pump, which replaces HPB-1100A, can achieve an outlet pressure of 300 bar/ 4350 psi and unlike the previous version, includes a pressure regulator removing the necessity of ordering one separately.

Features:

- Boosts N₂ bottles containing as low as 30 Bar (435 psi).
- Suitable for all HYSON cylinders
- Robust, lightweight design
- Male quick release coupling for output hose connection
- Available in two models:
 - Standard: Ideal for single location. Mounted on holding place and capable of hanging on neck of nitrogen bottle.
 - Portable: Ideal for on-the-go applications. Booster pump does not require removal from transport case while in use.

Standard:



Genuinely HYSON Safety Features:

- Overpressure protection with high pressure relief valve

Technical Information:

Inlet Pressure Medium	Pure Nitrogen Gas, N ₂
Inlet Nitrogen Pressure	30-300 Bar 435-4350 psi
Driving Supply Medium	Compressed Air
Driving Supply Pressure	0.5-8 Bar 7.25 – 116 psi
Air Connection	¼ BSPP
Pressure Ratio	1:32
Maximum Operating Temperature	+60 C +140 F
Weight – Standard	11.5 kg 25.3 lbs.
Weight - Portable	15 kg 33 lbs.
Formula for Outlet Pressure	32 x Driving Pressure + Inlet Pressure
Maximum Outlet Pressure*	300 Bar 4350 psi

*Do not exceed max charge pressure as marked on spring / system.

Portable:





PRODUCT ANNOUNCEMENT

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Availability:

Orders can be placed starting in May, 2018.

How to Order:

1. Choose either Standard or Portable model
 - a. Standard: HPB-4350-S
 - b. Portable: HPB-4350-M
2. Choose corresponding bottle connection adapter from Connection Adapter Table required for your facility
 - a. Add gas bottle connection adapter (1-6)

Example:

HPB-4350-M5 = Portable Booster Pump with CGA-680 connection

HPB-4350-S2 = Standard Booster Pump with BS 341 No. 3 connection

Gas Bottle Connection Adapters:		
Adapter Part Number	Thread	Standard
1	W24.32 x 1/14" RH	DIN477 No. 10
2	G 5/8"	BS 341 No. 3
3	G 5/8"	ISO 228
4	SI 21.7 x 1.814	AFNOR NF C
5	1.040" - 14" NGO	CGA 680*
6	W 21.7 x 1/14"	UNI 4409

*CGA 580 fittings must be purchased separately from your local vendor