MARUTI PNEUMATICS

❖ Compressed Air Driven Gas Booster Pump- HB Series

1) HB SERIES

2) 2HB SERIES

Air Driven Gas Boosters provide for pressures up to 80Mpa (11,600 psi). Used for virtually all known gases, these boosters are ideal for increasing gas pressure, transferring highpressure gas, charging cylinders and scavenging.

Key features includes:

- Compressed Air driven - no electricity required (connect to normal air compressor)
- In order to extend the lifetime of the pump, the driving air pressure shouldnot be higher than 8 bar
- Hydrocarbon free - separation between air and gas sections
- Pressures up to 80Mpa (11,600 psi)
- Wide range of models with different ratios
- Built-in-cooling on most models
- Easy to install, operate and maintain
- Best price / performance ratio
- No heat, flame or spark risk and explosion proof
- Automatic pressure holding, whatever the cause of the pressure drop, the pump will automatically start, keep the loop pressure constant
- Applicable Gas: OXYGEN, NITROGEN, AIR, ARGON, HELIUM, HYDROGEN, CO2, NO2, CH4, C2H2, LNG, LPG, CNG, FM200, SF6, H2S, etc.

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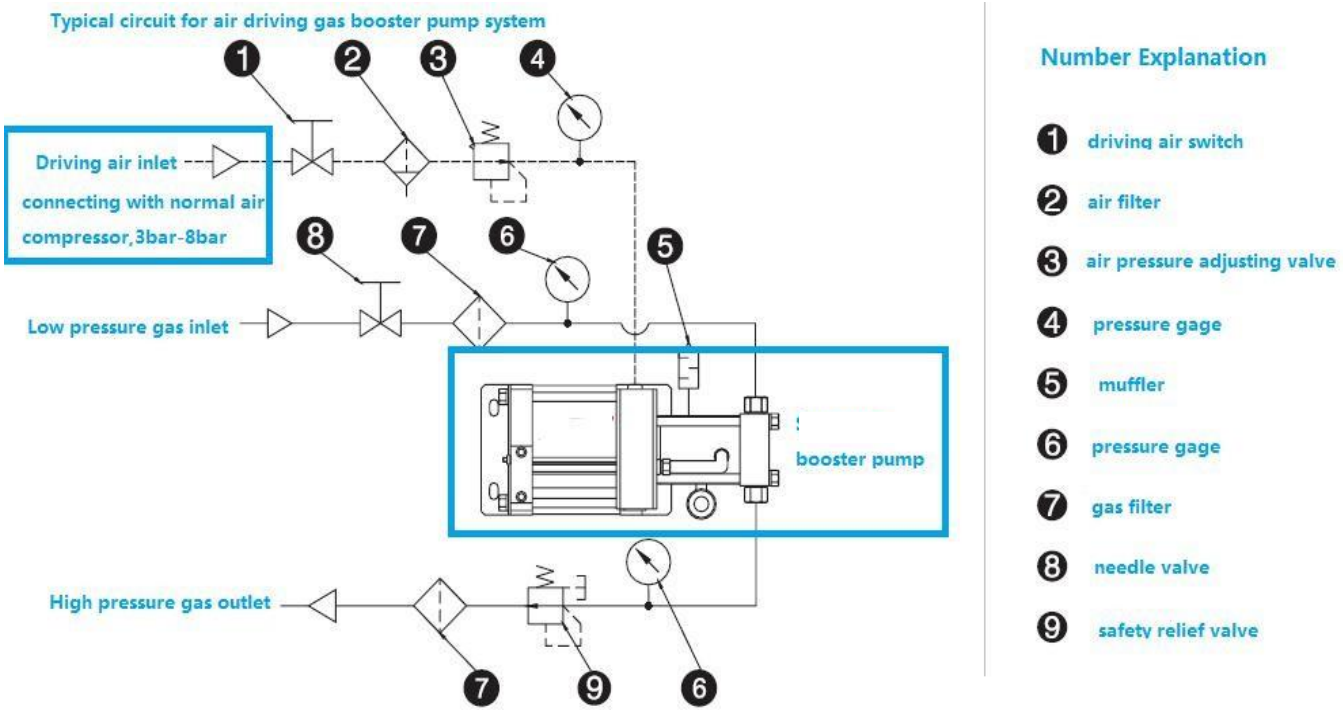
Technical specification for HB Series Air Driven Gas Booster:

Model	Pressure Boost Ratio	Min. gas Inlet Pressure PA (bar)	Max. gas Inlet Pressure PA (bar)	Max. gas outlet Pressure PB (bar)	Driven Air Pressure PL (bar)	Driven Air flow (CFM)	Connection (NPT thread)		Max. flow at driven air pressure of 6 bar	
							Gas Inlet	Gas Outlet	(L/min)	Nm3/Hr
HB-02	2:1	1	16	16	2-8	30	½"	½"	960 (at PA of 6 bar)	58 (at PA of 6 bar)
HA-05	5:1	2	40	40	2-8	30	½"	½"	680 (at PA of 6 bar)	40.8 (at PA of 6 bar)
HB-25	25:1	0.1	10	200	2-8	30	3/8"	¼"	156 (at PA of 8 bar)	9.36 (at PA of 8 bar)
HB-30	30:1	3.4	10	249	2-8	30	3/8"	¼"	118 (at PA of 8 bar)	7.08 (at PA of 8 bar)
2HB7-25	25:1	5	56	200	2-8	50	3/8"	3/8"	300 (at PA of 8 bar)	18 (at PA of 8 bar)
2HB7-30	30:1	3.4	50	249	2-8	50	3/8"	3/8"	212 (at PA of 7 bar)	12.72 (at PA of 7 bar)
HB-40	40:1	0.1	10	320	2-8	30	3/8"	¼"	124 (at PA of 8 bar)	7.44 (at PA of 8 bar)
HD-60	60:1	25	480	480	2-8	30	3/8"	¼"	215 (at PA of 40 bar)	12.9 (at PA of 40 bar)

(Note: - PL: Driven air pressure, PA: Gas inlet pressure, PB: Gas outlet pressure)

- HB pumps are double acting, double stage with single air drive head pumps. They can provide for super high pressure with very low inlet pressure.
- High quality seals are used in pumps for providing better service life.
- SS parts are used in the pump for gas operations.

HB Gas booster system = gas booster pump+ following valves, gauges, and parts



The standard gas booster pumps system including following parts:

- Air –driven gas booster pump (HB series for choosing)
- F.R.L combination for driven air (adjusts air pressure)
- Driven air switch (Pump starting switch), driven air pressure gauge
- Gas inlet switch, Gas inlet pressure gauge, Gas outlet switch, unloading valve, interconnecting pipes etc.

Applications for Air Driven Gas Boosters

Air Driven Gas Boosters provide for pressures up to 80Mpa. Used for oil free compression not only of air, Oxygen or Nitrogen, but also flammable and risk gases like hydrogen, oxygenand natural gas. These boosters are ideal for increasing gas pressure, transferring high pressuregas, charging cylinders and scavenging.

Air driven boosters are an efficient alternative instead of electrically driven products and can be used in explosion- proof areas.

As a result of the wide range of models it is possible to select the optimum booster for each application. Single stage, double acting or two stage boosters or a combination of these models can be used to achieve different operating pressures and flow capacities.

Applications

- Gas transfer and filling
- Charging of gas cylinder and accumulator with nitrogen
- Supply for isolating gas systems # Gas assisted injection molding
- Transfer of oxygen cylinders # Charging of breathing air bottles
- Leak test # Safety valve adjusting
- Pressure test with gas/air # Nitrogen gas spring charging
- Hydrostatic Testing for valves, tanks, pressure vessels, pressure switches, hoses, pipes and tubing, pressure gauges, cylinders, transducers, well casings, BOPs, gas bottles and air craftcomponents

How to select Air Driven Booster/System ?

In order to select suitable booster pump or systems for you, kindly reply us the following questions:

1. What is your present gas pressure? ( ) Bar
2. What is your gas? Oxygen gas, Nitrogen gas or other gases?
3. What outlet pressure do you want? ( ) Bar
4. What outlet gas flow rate do you need? Liter/Minute

If you are interested in any of our products, please feel free to contact us.