

AIR DRIVEN STANDARD SYSTEM PACKAGES FOR HIGH PRESSURE LIQUID, GAS, OR AIR

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Liquid Pump Packages

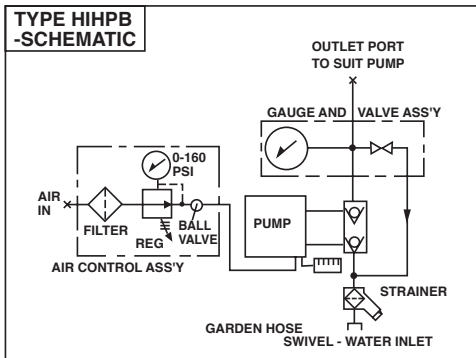
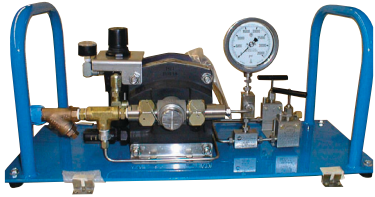
TYPE HIHPB

Description:

Any 3L, 5L, or 7L series pump mounted on an aluminum base plate with dual carry aluminum handles, outlet gauge assembly, air controls, and needle type release valve back to inlet.

Primary Application:

Hydrostatic testing using water hose inlet.



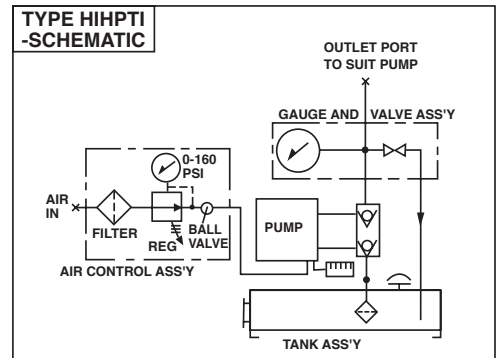
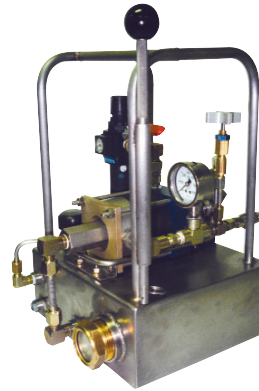
TYPE HIHTI

Description:

Any 3L, 5L, or 7L series pump mounted on a 2 or 5 gallon stainless steel tank with dual carry handles, outlet gauge assembly, air controls and needle type release valve back to tank.

Primary Application: Power unit for hydraulic systems.

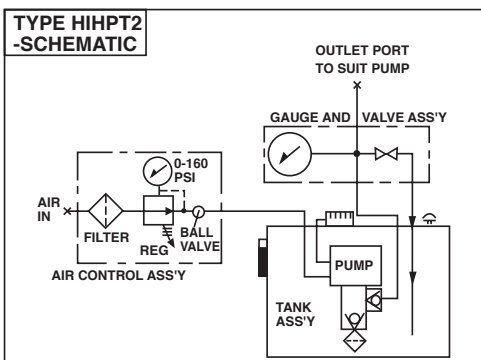
Petroleum base or phosphate ester fluids.



TYPE HIHT2

Description: Any 3L series pump, mounted submerged inside stainless steel 2 or 5 gallon tank with outlet gauge assembly, air controls and needle type release valve back to tank.

Primary Application: power unit for high pressure hydraulic tools. Petroleum base fluid only.

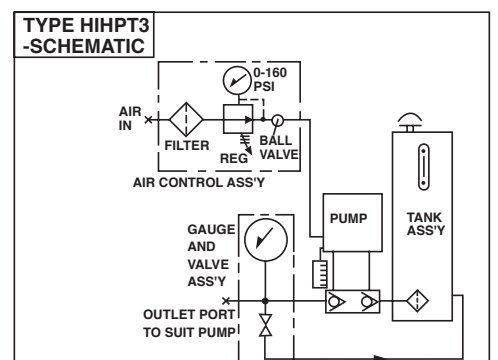


TYPE HIHT3

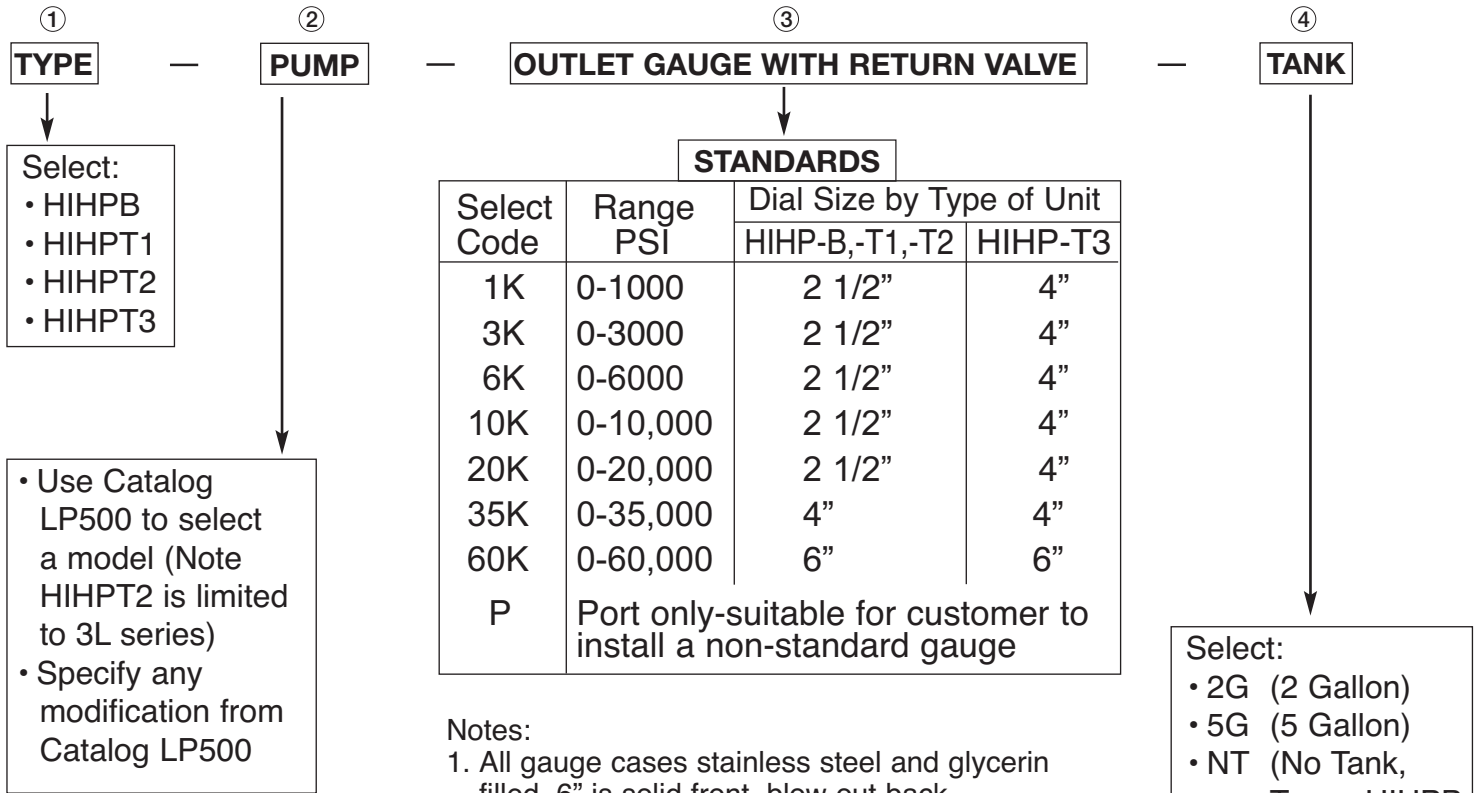
Description:

Any 3L, 5L, or 7L series pump mounted alongside a 2 or 5 gallon stainless steel tank enclosed in a tubular steel frame with expanded metal gauge face protection. Includes outlet gauge assembly, air controls and needle type release valve back to tank. Also available without tank for water hose inlet similar to type HIHPB

Primary Application: Power unit for high pressure and rough handling, water, petroleum base, or phosphate ester fluids.



Model Number Construction:



Notes:

1. All gauge cases stainless steel and glycerin filled. 6" is solid front, blow out back.
2. Accuracy:
 2 1/2" dial: ± 1% full scale.
 4", 6" dials: ± 1/2% full scale.
 Units: PSI, single scale.
3. All outlet piping stainless steel and sized to fit selected pump.
4. Air Control Inlets:
 3L Series - 1/4" NPT
 5L Series - 1/2" NPT
 7L Series - 3/4" NPT

EXAMPLE



- This is a
- Tubular frame system package
 - With Model 5L-SS-205 pump
 - 1/2" NPT Air Drive Inlet
 - 1/4" Superpressure Liquid Outlet
 - 0-35,000 PSI, 4" Outlet Gauge
 - 2 Gallon Tank

Gas Booster Packages

TYPE HIHPG1



Stationary unit ready to receive supply cylinder.

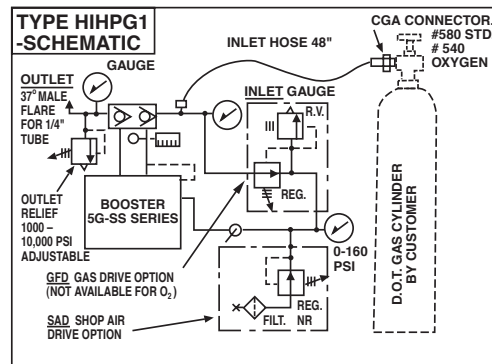
Mobile unit with supply cylinder ready for operation.

Description:

Booster mounted on kick stand equipped, single gas cylinder hand truck. Enables operation upright or at 45% angle for added stability. Options provide for drive power from either the cylinder gas or shop air, or both choices.

- Output range: 1000 - 10,000 PSI
- Booster models 5G - SS - 14,- 30,- 50,- 75
- Gases: nitrogen, helium, argon, oxygen, CO₂*

Primary Applications: Accumulator N₂ servicing, aircraft ground support



* CO₂ gas inlet must be held to 88°F or higher to prevent a phase change to liquid in the booster.

TYPE HIHPG2



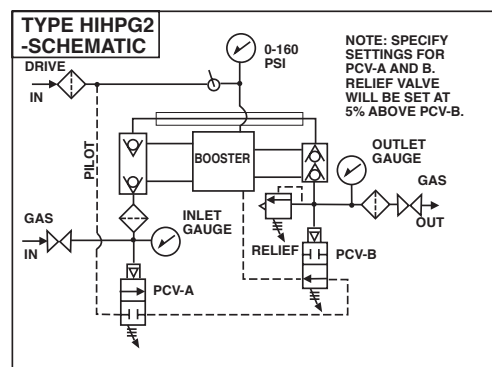
Description:

Booster mounted in an aluminum tubular frame with controls for air drive up to 150 PSI. PCV valves sense both gas inlet and outlet pressures to automatically stop the booster when either minimum inlet or maximum outlet pressures are reached enabling unattended operation. Panel mounted gauges read gas inlet and outlet. The drive air gauge is behind the panel for reference.

- Output range: 1000 - 25,000 PSI
- Booster Models: Select from catalog GB500
- Gases: Most cylinder gases used in industry and life support applications.

Primary Applications:

- High Pressure gas testing
- Gas injection
- Gas transfer to portable bottles



TYPE HIHPG3



Description:

Booster supports all piping, gauges and controls, so that booster's standard foot brackets provide the mounting. Drive controls enable powering the unit from either the inlet gas or shop air. PCV valve and relief valve provide adjustable, automatic outlet pressure control. Note:

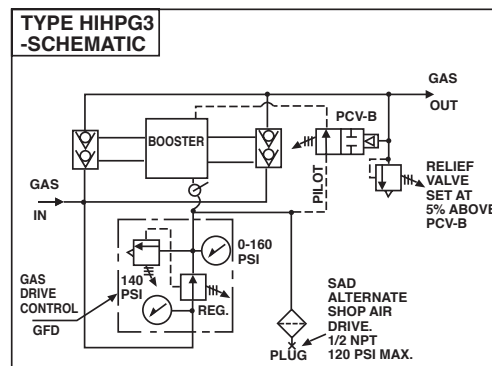
Outlet gauge not included.

- Output Range: 2,500-6,000 PSI. Maximum inlet varies by model-Ref. catalog GB500.
- Booster Models: 5G-DS, DD, TS and TD series.

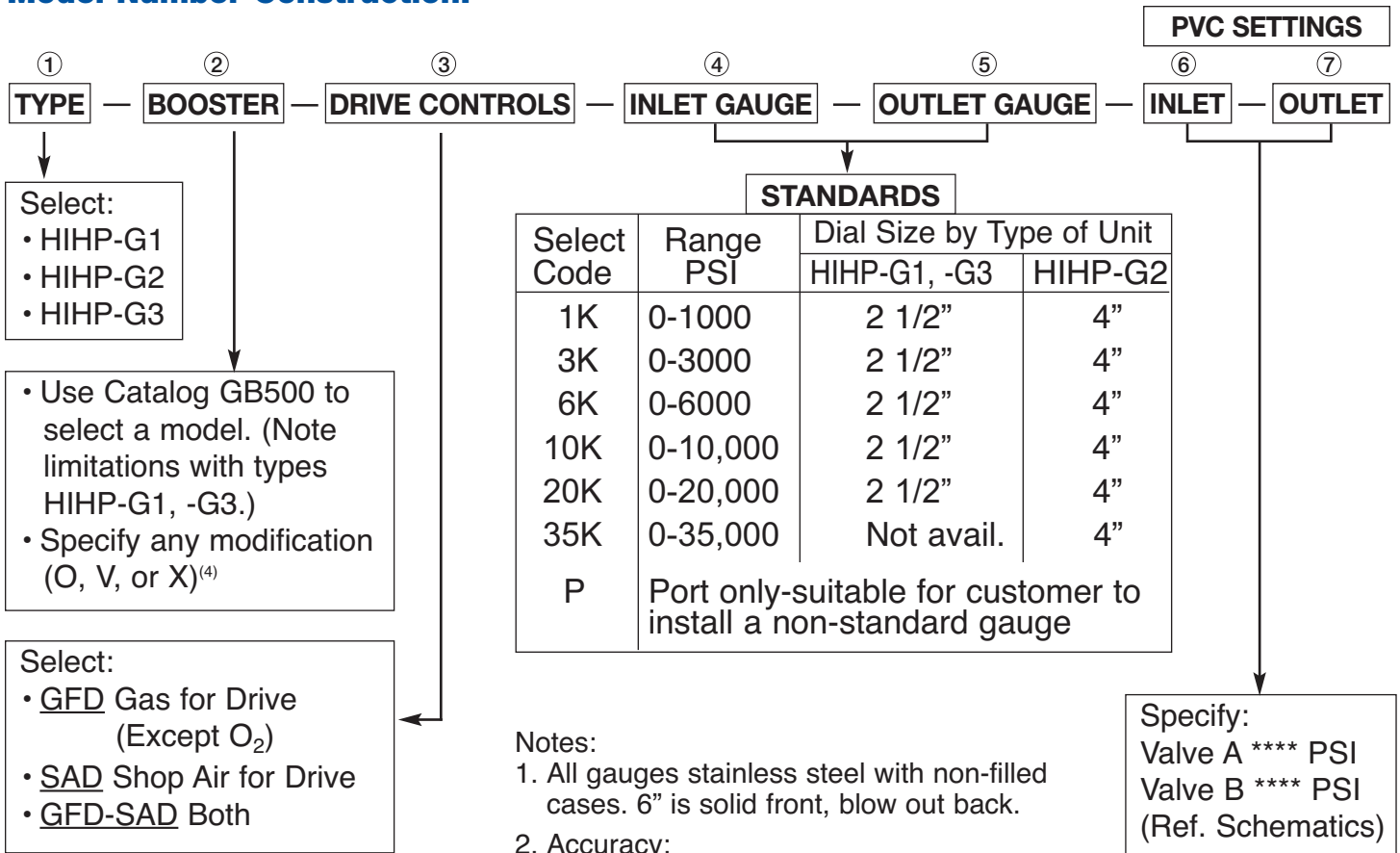
Gases: Breathing air (-50°D.P. min.), nitrogen, helium, argon, oxygen

Primary Applications:

Fire Dept., hasmat, dive shop breathing gases



Model Number Construction:



EXAMPLE



This is a

- Tubular Frame System Package
- With Model 5G-TS-14/30 Booster
- With Shop Air for Drive (GFD not a standard option)
- With 3000 PSI Inlet and Outlet Gauges
- With PCV Valve Settings of 200 PSI Inlet, 2500 PSI Outlet

Air Pressure Amplifier Packages



TYPE HIS-S5A-DS-2

Description:
Model 5A-DS-2 doubles available plant air pressure into a 15 Gal, 200 PSI, ASME code tank. Tank relief is set at 200 PSI. Outlet regulator provides precise control to end use.

Primary Application: Assist air powered machines in large plants with marginal central system air pressure.

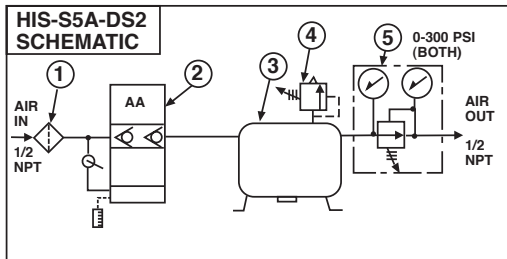


TYPE HIHP-S3A-SS-2.5 or-4

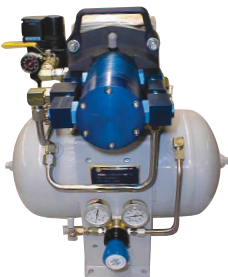
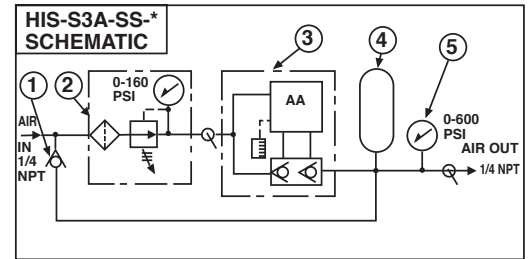
Description:
3A-SS Series amplifies its inlet air into a .6 gallon, D.O.T. code steel bottle. Maximum bottle pressure can be roughly adjusted up to *2.5x or *4x inlet using the inlet regulator.

Primary Application: Assist smaller air powered machines in plants with marginal shop air pressure. Provide air up to 500 PSI for miscellaneous testing.

Item	Description
1	Inlet air filter-water trap, 20 micron
2	5A-DS-2 amplifier
3	Receiver tank, 15 gallon, 200 PSI ASME coded
4	Safety relief valve set at 200 PSI
5	Air regulator, 1/2 NPT, 5-150 PSI range with gauges



Item	Description
1	Bypass check valve
2	Filter/ regulator/ gauge assembly
*3	Amplifier model 3A-SS-2.5 or -4 (specify)
4	.6 Gal, 1800 PSI, D.O.T. bottle
5	Outlet gauge, 0-600 PSI

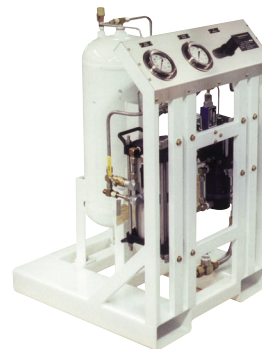
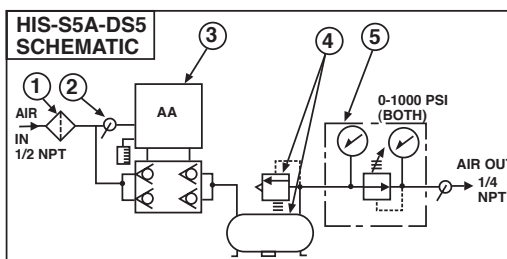


TYPE HIS-S5A-DS5

Description:
Model 5A-DS-5 raises available plant air pressure up to 5x inlet into a 5 Gal, 600 PSI ASME code tank. Tank relief is set at 600 PSI. End use pressure is controlled by the outlet regulator.

Primary Application: 300-500 PSI air for moderate flow air testing or special devices.

Item	Description
1	Watertrap-filter, 20 micron
2	Ball valve- start/stop/ throttle control
3	Model 5A-DS-5 amplifier
4	5 gallon tank, 600 PSI, ASME with relief and drain
5	Gas regulator/ gauge assembly; 50-500 PSI control.

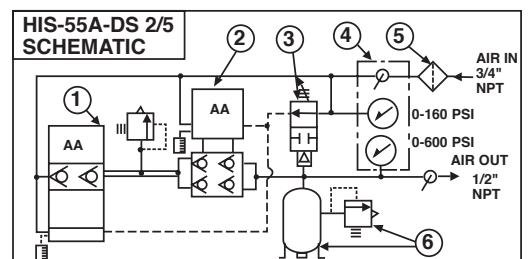


TYPE HIS-S5A-DS-2/5

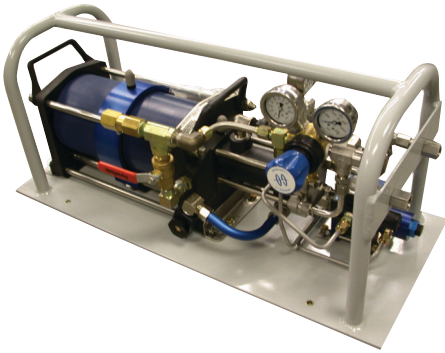
Description:
Model 5A-DS-2X and 5A-DS-5X in series for 2 stage efficiency and high flow to 390 PSI. Tank is 15 gal, 400 PSI, ASME code. Tank pressure is controlled with PCV valve set at 390 PSI.

Primary Application: 150-350 PSI air for high flow testing, purging, clamping.

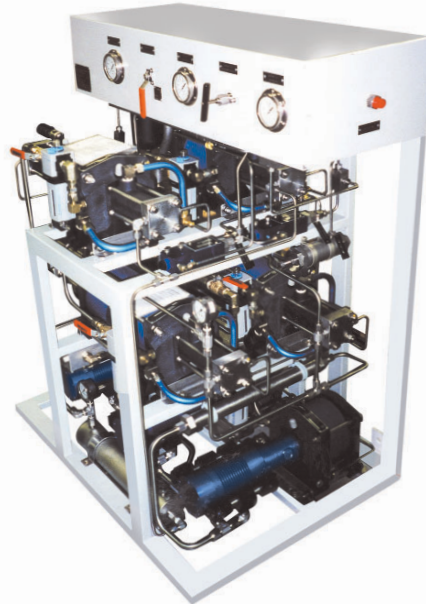
Item	Description
1	Model 5A-DS-2X amplifier
2	Model 5A-DS-5X amplifier
3	Model PCV-E020 pilot cut off set at 390 PSI
4	Panel assy: 2 ea 0-600 PSI gauges, 1 ea 3/4" ball valve
5	Filter/moisture trap, 20 mic 3/4" npt
6	Receiver 15 gal, 400 PSI ASME code, with relief valve set at 400 PSI



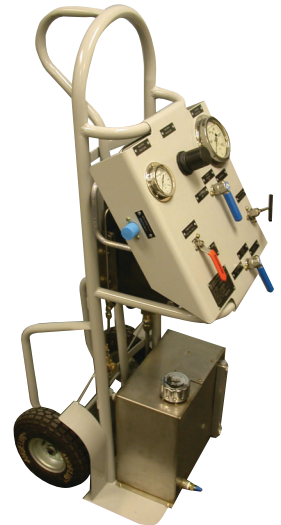
CUSTOMIZED PACKAGE SYSTEM EXAMPLES TO FIT A SPECIFIC REQUIREMENT



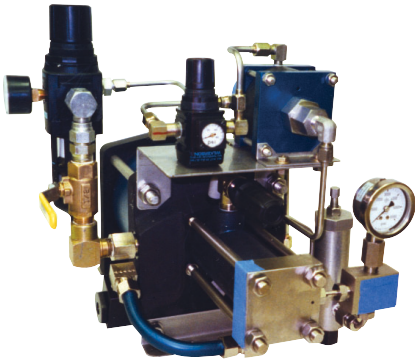
Portable Accumulator Nitrogen Servicing Unit using 5G-SD series booster with drive controls for either plant air or N₂ Bottle.



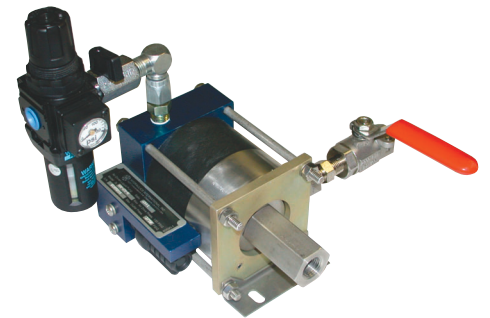
Multistage system for boosting argon gas to 15,000 PSI from a liquid argon vaporizer.



Aircraft Ground Service Hydraulic Cart for both proof testing and gear actuation using 5L-SS Series Pump.



SCUBA and SCBA Air Tank Top-Off Unit with PCV-R100 Dome adjustable pressure control.



Nitrous Oxide Liquid Transfer using modified 3L-SS Series Pump.

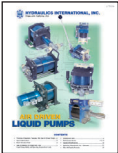








HYDRAULICS INTERNATIONAL, INC. OVERVIEW

Founded in 1976, HII has evolved into a fully integrated manufacturer of hydraulic and pneumatic test equipment. HII maintains two modern facilities in Chatsworth, California, totaling 250,000 square feet.

Along with air driven system packages, HII offers pumps, air amplifiers, gas boosters, flowmeters and high pressure components. HII products are designed and manufactured in the USA.



Detailed Literature Available

Catalogs	Number	Includes
 <p>Liquid Pumps - Air or Gas Driven</p>	LP500	Principle of operation, benefits, applications, installation detail, chart of rated pressures, port sizes, and weights, performance curves, standard modifications. 12 Pages
 <p>Gas Boosters - Air or Gas Driven</p>	GB500	Principle of operation, benefits, applications, typical schematics, selection tables, performance curves and modifications. 16 Pages
 <p>Air Amplifiers - Air Driven</p>	AA500	Principle of operation, replacing dedicated air compressor in large plants, installation, controls, schematics, and packaged systems. 4 Pages
 <p>Flowmeters - Liquid or Gas</p>	FM-100	Principle of operation, applications, design features, flow ranges and sizing guides with calculations. How to order. 58 Pages
Bulletins	Number	Includes
 <p>Liquid Pumps</p>	LP501	Basic pressure ratings, displacement per cycle, weights, dimensions, and key features. 2 Pages
 <p>Gas Boosters</p>	GB501	Basic pressure ratings, displacement per cycle, weights, dimensions, and key features. 2 Pages
 <p>Product Line Overview</p>	PBVF-100	Quick reference to the overall capacities of HII's liquid pumps, gas boosters, air pressure amplifiers, high pressure accessories and flow meters. 4 pages
 <p>High Pressure Valves</p>	V-100	Relief, pilot cutoff, unloading, check, plus gas receivers and needle valves. 2 pages
 <p>Breathing Air - Scuba Diving</p>	GB-102	Breathing air booster unit for dive store SCUBA tank fill stations to 4500 PSI. 1 Page

