



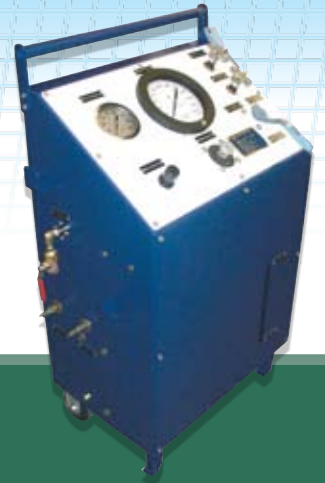
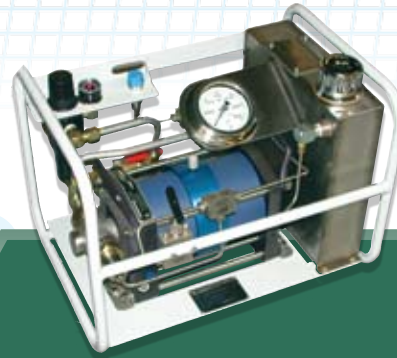
AIR DRIVEN STANDARD SYSTEM PACKAGES

FOR HIGH PRESSURE:

AIR AIR



LIQUID LIQUID



GAS GAS



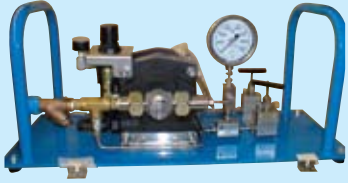
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Liquid Pump Packages

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.

APPROXIMATE DIMENSIONS:
30"W x 12"D x 12"H

TYPE HIHPTI



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.

APPROXIMATE DIMENSIONS:
10"W x 10"D x 15"H

TYPE HIHPT2



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.

APPROXIMATE DIMENSIONS:
13"W x 10"D x 12"H

TYPE HIHPT3



DESCRIPTION:
Any 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

APPROXIMATE DIMENSIONS:
22"W x 16"D x 18"H

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

TYPE HIHPT4



DESCRIPTION:
Any 5L, or 7L series pump alongside a 2 or 5 gallon stainless steel tank enclosed in a tubular frame with valves and gauges panel mounted. Includes outlet gauge, air controls and needle type on/off valves and release valves back to tank.

PRIMARY APPLICATION:
Stationary power unit for hydrostatic testing and hydraulic systems.

APPROXIMATE DIMENSIONS:
33"W x 17"D x 20"H

TYPE HIHPT5



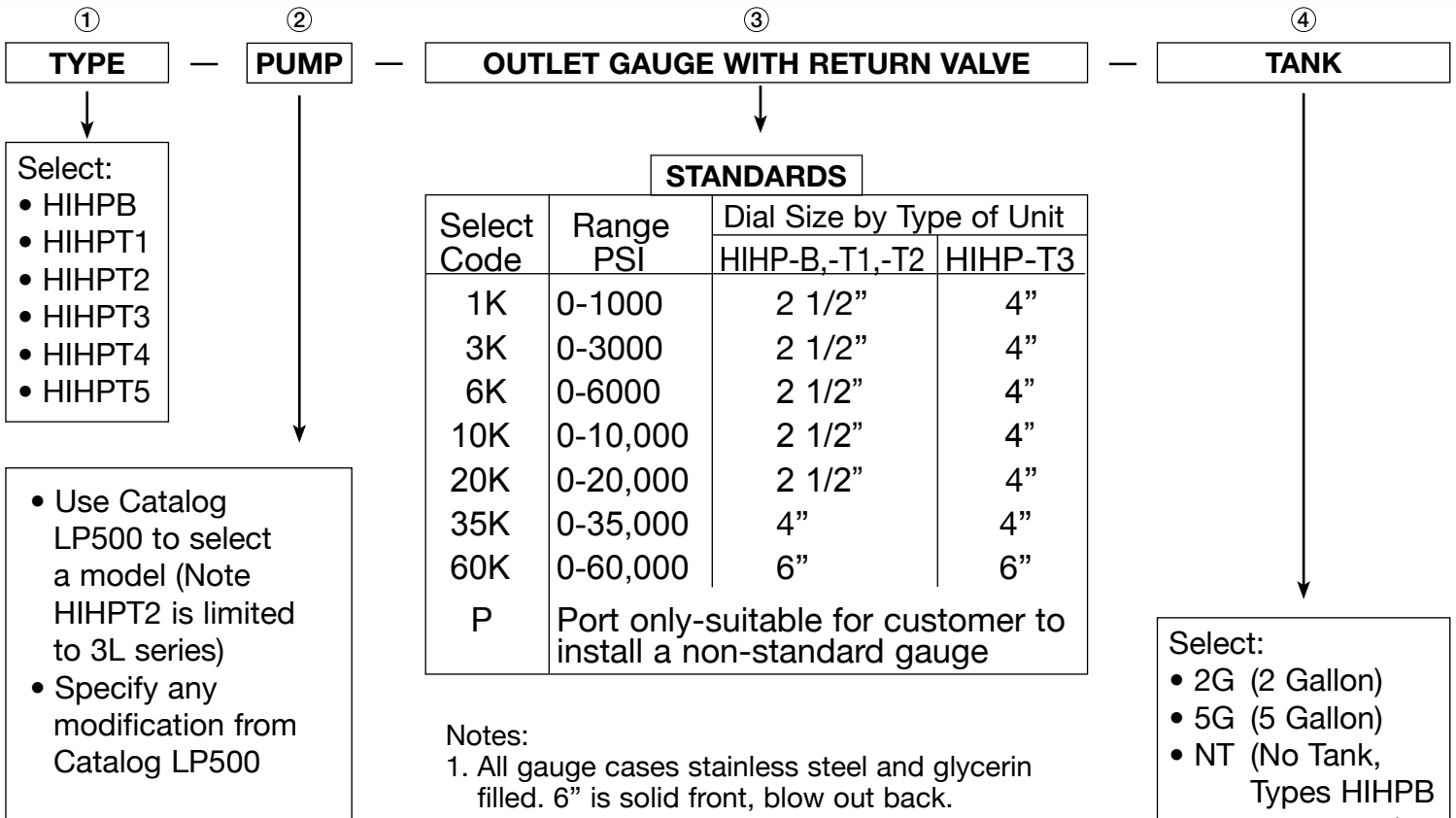
DESCRIPTION:
Any 5L, or 7L series pump mounted on top a 2 or 5 gallon stainless steel tank enclosed in a two-wheel cart with valves and gauges panel mounted. Includes outlet gauge, air controls and needle type on/off valve and release valve back to tank.

PRIMARY APPLICATION:
Mobile test cart for hydrostatic testing, valve actuation, crimping, post preloading and hydraulic systems.

APPROXIMATE DIMENSIONS:
25"W x 20"D x 55"H

HOW TO ORDER A LIQUID PUMP PACKAGE

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

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.

PRIMARY APPLICATION:

Accumulator N2 servicing, aircraft ground support.

- Output range: 1000 - 10,000 PSI
- Booster models 3G; 5G-SS-14, -30, -50, -75
- Gases: nitrogen, helium, argon, oxygen, CO₂*



Stationary unit ready to receive supply cylinder.

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



Mobile unit with supply cylinder ready for operation.

APPROXIMATE DIMENSIONS:

39"W x 13"D x 46"H

APPROXIMATE DIMENSIONS:

39"W x 13"D x 38"H

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.

PRIMARY APPLICATION:

High Pressure gas testing, Gas injection and Gas transfer to portable bottles.

APPROXIMATE DIMENSIONS:

33"W x 17"D x 18"H

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



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.

PRIMARY APPLICATION:

Fire Dept., hasmat, dive shop breathing gases.

APPROXIMATE DIMENSIONS:

34"W x 14"D x 14"H

- Output Range: 2,500-6,000 PSI. Maximum inlet varies by model-Ref. catalog GB500.
- Booster Models: 5G-DS, -DD, -TS & -TD series.
- Gases: Breathing air (-50°D.P. min.), nitrogen, helium, argon, oxygen



TYPE HIHPG4

DESCRIPTION:

Booster mounted on a watertight protective case (control panel is optional). Drive controls enable powering the unit from inlet gas or shop air, or both choices. PCV valve (s) and relief valve provide adjustable, automatic outlet pressure control.

PRIMARY APPLICATION:

Life support, hasmat, general aviation, dive shop, military

APPROXIMATE DIMENSIONS:

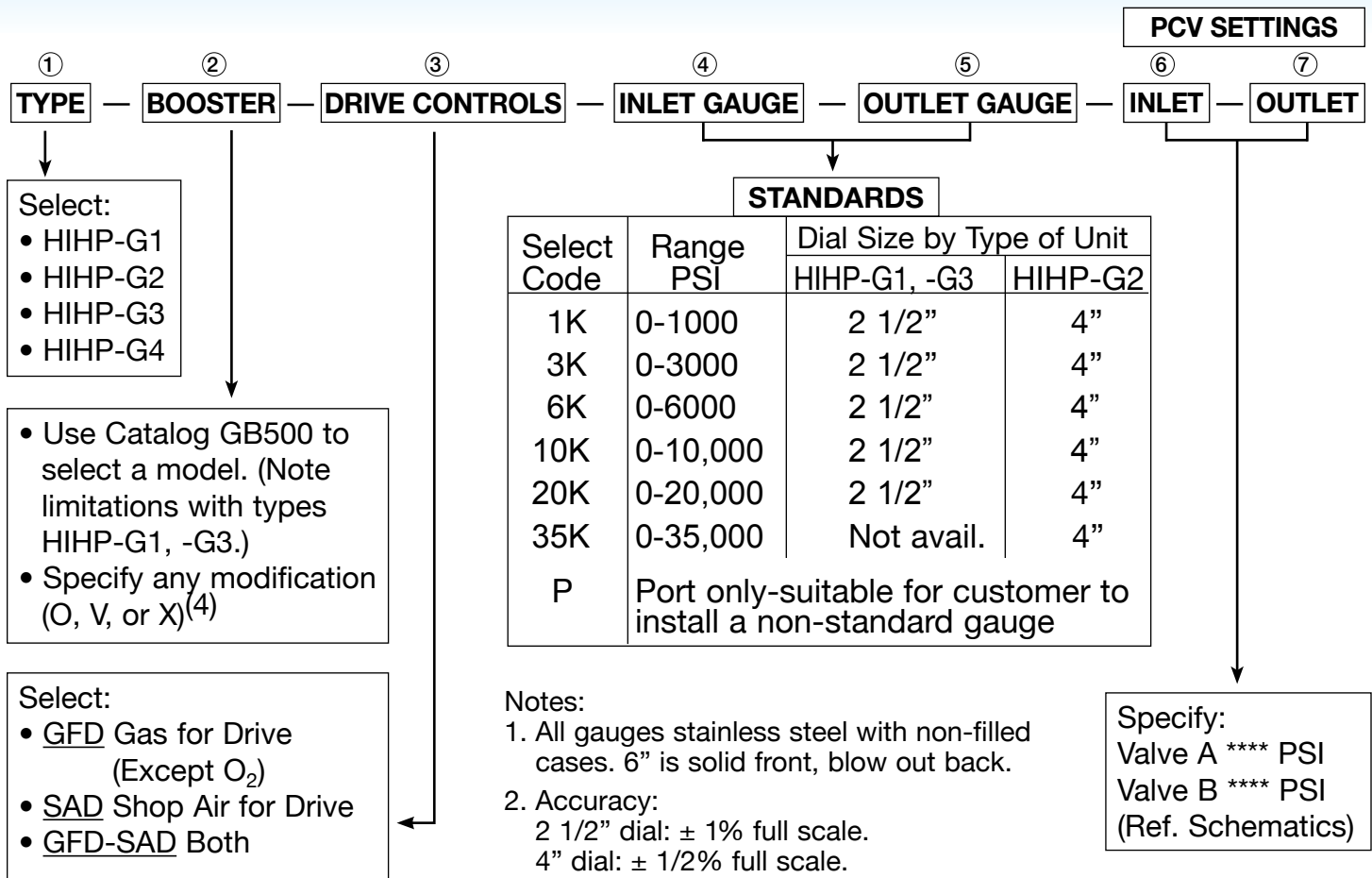
22"W x 13"D x 8"H (3G Series)
25"W x 22"D x 12"H (5G-SS Series)
33"W x 21"D x 12"H (5G-SD, -DS, -TS Series)

- Output range: 1000 - 10,000 PSI
- Booster models: 3G; 5G-SS, -SD, -DS, -TS series
- Gases: Most cylinder gases used in industry and life support applications.



HOW TO ORDER A GAS BOOSTER PACKAGE

Model Number Construction:



Notes:

1. All gauges stainless steel with non-filled cases. 6" is solid front, blow out back.
2. Accuracy:
2 1/2" dial: ± 1% full scale.
4" dial: ± 1/2% full scale.
Units: PSI, single scale.
3. Outlet Gauge on type HIHP-G3 is not a standard option.
4. If oxygen (-0) mod. is specified all other components in O₂ contact will be compatible.

Specify:
Valve A **** PSI
Valve B **** PSI
(Ref. Schematics)

EXAMPLE

① **HIHPG2** — ② **5G-TS-14/30** — ③ **SAD** — ④ **3K** — ⑤ **3K** — ⑥ **A200** — ⑦ **B2500**

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 tools and machines in large plants with marginal central system air pressure. Ideal to boost plant air pressure for tools for operation of automatic clamps, cylinders and other equipment.

APPROXIMATE DIMENSIONS:

44"W x 32"D x 17"H



TYPE HIHP-S3A-SS-2.5 OR-4

DESCRIPTION:

3A-SS Series

Amplifies its inlet air into approximately 1 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 tools and machines in plants with marginal shop air pressure. Provide air up to 500 PSI for miscellaneous testing. Ideal for light duty and boosting air into tight spaces.

APPROXIMATE DIMENSIONS:

11"W x 11"D x 17"H



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. Ideal to boost plant air pressure for tools for operation of automatic clamps, cylinders and other equipment.

APPROXIMATE DIMENSIONS:

17"W x 15"D x 23"H



TYPE HIS-S5A-DS-2/5

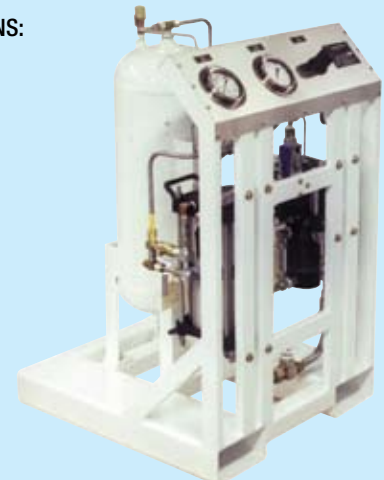
DESCRIPTION:

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.

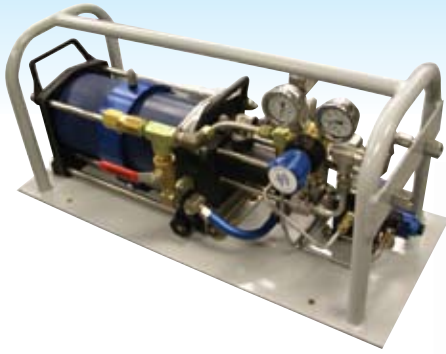
PRIMARY APPLICATION: 150-350 PSI air for high flow testing, purging, clamping.

APPROXIMATE DIMENSIONS:

30"W x 28"D x 43"H



CUSTOMIZED PACKAGE SYSTEM EXAMPLES TO FIT A SPECIFIC REQUIREMENT



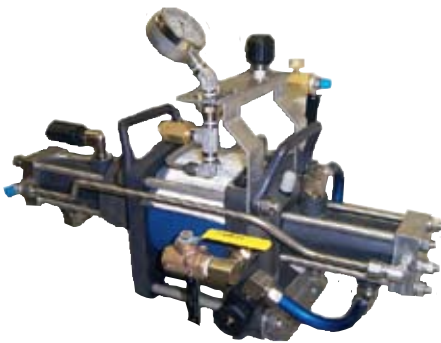
Portable Accumulator Nitrogen Servicing Unit using 5G-SD series booster with drive controls for either plant air or N₂ Bottle.



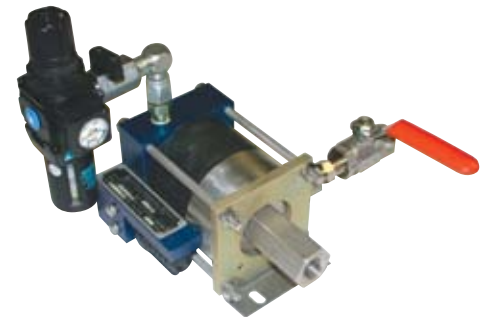
Tube & hose test stand rated to 30,000 PSI fully automated.



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



PAINTBALL propellant bottle filling to 6,000 PSI using 5G-DS and 5G-TS series boosters.



Nitrous Oxide (N₂O) and Carbon Dioxide (CO₂) 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 three modern facilities in Chatsworth, California, totaling 690,000 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.

Corporate Headquarters And Offices, Sales, Administration, Fabrication And Assembly



Engineering, Assembly And Test Facility



Machine Shop Facility



Detailed Literature Available

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