

# PRODUCT LINE OVERVIEW







#### LIQUID PUMPS AIR OR GAS DRIVEN

LIGUID FUMF.	IQUID FUMITS AIR OR GAS DRIVEN					
<u>Drive Piston(s)</u> (Diameter)	<u>Area Ratios,</u> (Drive vs Boost Piston(s))		Basic Des			
3"	8:1, 14:1 25:1, 41:1, 81:1, 125:1, 220:1		The drive piston to the pump purple by a high pres			
5 Models	Pressures to 15,000 PSI	7 lbs (max)	air (or gas) is a reciprocates a			
5-3/4"	4:1, 10:1, 15:1, *20:1, 30:1, *30:1, 45:1, 60:1, *60:1, *90:1, 115:1, *120:1, 150:1, 205:1, *230:1, 300:1, *300:1, *410:1, 450:1, *600:1, **900:1 *two drive **Three drive pistons		positive displa at the liquid end will stall and he the system do final pressure drive air pressure model. Drive a to 150 PSI. Benefits:			
20 Models	Pressures to 80,000 PSI	30 lbs (max)	Start/stop/ maximum			
7"	7:1, 35:1, 60:1, 100:1, *70:1, *120:1, *200:1 *two drive pistons	Trans.	No electric damp envir     Rated for v most liquet     Simple mai     Simple cor			
7 Models	Pressures to 20,000 PSI	85 lbs (max)	Cp.3 001			

#### scription and Benefits

ton(s) is directly connected plunger or piston, separated essure seal. When shop applied, the assembly automatically, producing a acement pumping action end. This pumping action hold pressure whenever own stream is closed. The e is estimated by multiplying sure x the area ratio of each air or gas can range from 5

- /restart under full load. Hold pressure indefinitely.
- cal hazard in explosive or ironments.
- water, oils, solvents, and efied gases to high pressure.
- aintenance.
- ntrol in fluid power circuits.

- Typical Applications: •Hydrostatic testing Tanks, piping, instruments.
  - Hydraulic clamps, presses, safety brakes.
  - Valve actuators Compact power source, pneumatically driven.
  - Portable Tools Compact power source for high pressure hydraulics.

### GAS BOOSTERS AIR OR GAS DRIVEN

Drive Piston(s) (Diameter)	Area Ratios, (Drive vs Boost Piston(s))		Basic Description and Benefits		
3"	23:1  Note: Optional hand pump kit available.		The drive piston(s) is directly connected		
1 Model	Pressures to 3,450 PSI 11 lbs (max)		to the booster piston(s), separated by a vented, triple seal system. The		
5-3/4"	4:1, 7:1, 14:1, *14:1, *28:1, 30:1, 50:1, *60:1, 75:1, 92:1, *100:1, *150:1 *two drive pistons Note also that 17 different combinations of these ratios are available in standard 2 stage models		reciprocating action is the same as the liquid pumps. However, with most models final pressure is a function of drive pressure, gas inlet pressure and staging so commonly an external pressure control is recommend.  Benefits:		
36 Models Pressures to 25,000 PSI 53 lbs (max)		<ul> <li>Non lube dry gas pistons ensure hydrocarbon free gas output.</li> </ul>			
Typical Applica	Bottled gas transfe     High pressure gas     Gas injection - plas     or chemical proces     Rebreather Fillings	<ul> <li>Safe with flammable gases or oxygen.</li> <li>Boost most commercially available bottled gases including breathing air.</li> </ul>			



### AIR PRESSURE AMPLIFIERS AIR DRIVEN

<u>Drive Piston(s)</u> (Diameter)	<u>Area Ratios,</u> (Drive vs Boost Piston(s))		Basic Description and Benefits
3"	2.5:1, 4:1		These units are simplified versions of HII's
2 Models	Pressures to 675 PSI	7 lbs (max)	gas booster design in that they are designed to boost (amplify) the pressure of the same
5-3/4"	2:1, 5:1		gas (shop air) used for drive.  Benefits:  Solve low air pressure problems at
2 Models	Pressures to 1,250 PSI	36 lbs (max)	individual pneumatically actuated
7"	8:1		<ul><li>production machines.</li><li>Provide higher test station air or nitrogen pressure economically.</li></ul>
1 Model	Pressures to 1,250 PSI	45 lbs (max)	

## **HIGH PRESSURE VALVES**

Туре	<u>Relief</u> 4 Models	<u>Pilot Cut Off</u> 11 Models	Release/Unloading 5 Models	<u>Check</u> 6 Models to 2" NPT	<u>On/Off</u> 1 Model
Pressures to	60,000 PSI	25,000 PSI	20,000 PSI	20,000 PSI	10,000 PSI
				III	

**Gas Receivers** 15 models. Pressures to 20,000 PSI. Volumes to 900cu. inches

**High Pressure Intensifier** 3 cu. in. to 100,000 PSI, liquid or gas, 10:1 area ratio, oil or water drive.

### FLOWMETERS LIQUID OR GAS

Turn	Tyro		Turbin	Э	Variable Area		Area
Туре		Inline	Insertion	Tangential	Standard	Sanitary	Hydraulic 5000PSI
Range	Liquid	.03 - 15,	000 GPM	.001 - 2.0 GPM	.2 - 10	O GPM	0 - 80 GPM
nalige	Gas	15,000	ACFM	2 ACFM	.2 - 400	SCFM	0 - 00 GFW
Flow Computer			80	Totalizing, Rate D Intrinsically safe, Battery operated,	Explosion proof,		

### PACKAGED SYSTEMS LIQUID OR GAS

TAGINOID OTOTIMO IIGOID	on one	
Hydraulic Power Unit	High Pressure Oxygen Transfer	Air Amplifier with 200 PSI Receiver and Controls
E.O.E.		

# **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
AIR DRIVEN GAS BOOSTERS	Gas Boosters - Air or Gas Driven	GB500	Principle of operation, benefits. Applications, typical schematics, selection tables, performance curves and modifications.  16 Pages
AN ORDER OF PERSONS AND PERSON	Air Amplifiers - Air Driven	AA500	Principle of operation, replacing dedicated air compressor in large plants, installation, controls, schematics, and packaged systems. 4 Pages
Į į Ţ	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
GOOD Printer.	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
ANT DEVENT STANDARD OVERTHER PROCESSES	Standard System Packages for High Pressure Liquid, Gas or Air	SP-100A	11 Packaged systems with ordering guides to fit each to specific applications 8 pages
H MA	High Pressure Valves	V-100	Relief, pilot cutoff, unloading, check, plus gas receivers and needle valves.  2 pages
TO SECURITY	Breathing Air - Scuba Diving	GB-102	Breathing air booster unit for dive store SCUBA tank fill stations to 4500 PSI.  1 Page

