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Ļ		S AIR OR GAS DRIVEN				
	Drive Piston(s) (Diameter)	<u>Area Ratios,</u> (Drive vs Boost Piston(s))		Basic Description and Benefits		
	3"	8:1, 14:1, 25:1, 41:1, 81:1, 125:1, 220:1 Optional hand pump kit available.	•	The drive piston(s) is directly connected to the pump plunger or piston, separated by a high pressure seal. When shop air (or gas) is		
	7 Models	Pressures to 22,500 PSI	7 lbs (max)	applied, the assembly reciprocates automatically, producing a positive displacement pumping		
	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		action at the liquid end. This pumping action will stall and hold pressure whenever the system down stream is closed. The final pressure is estimated by multiplying drive air pressure x the area ratio of each model. Drive air or gas can range from 3 to 150 PSI. <u>Benefits:</u> • Start/stop/restart under full load. Hold		
	30 Models	Pressures to 80,000 PSI	30 lbs (max)	 Mo electrical hazard in explosive or damp 		
	7"	7:1, *14:1, 35:1, 60:1, 100:1, *70:1, *120:1, *200:1 *two drive pistons		 environments. Rated for water, oils, solvents, and most liquefied gases to high pressure. Simple maintenance. Simple control in fluid power circuits. 		
	8 Models	Pressures to 22,500 PSI	85 lbs (max)			
	 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

<u>Drive Piston(s)</u> (Diameter)	<u>Area Ratios,</u> (Drive vs Boost Pis	ton(s))	Basic Description and Benefits				
3"	**9:1, *23:1, **29:1 *Available in 2-stage & double acting configurations *Optional hand pump kit.		The drive piston(s) is directly connected to the booster piston(s), separated by a vented, triple seal system. The reciprocating action is the				
3 Model	Pressures to 3,450 PSI	11 lbs (max)	same as the liquid pumps. However, with most				
5-3/4"	4:1, 7:1, *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		 models final pressure is a function of drive pressure (air driven models only), gas inlet pressure and staging so commonly an external pressure control is recommend. <u>Typical Applications:</u> Bottled gas transfer. High pressure gas testing. Rebreather Fillings or topping off. Cas injection plantic forming or chemical 				
38 Models	Pressures to 30,000 PSI (2069 BAR)	53 lbs (24 kg) Max					
7"	7:1 Available in 2-stage & double acting configurations		Gas injection - plastic forming or chemic process.				
2 Models	Pressures to 1,250 PSI	65 lbs (29.5 kg)	 Non lube dry gas pistons ensure hydrocarbon free gas output. 				
			Safe with flammable gases or oxygen.				
GAS BOOSTERS	ELECTRIC DRIVEN		<u>Type of Gas:</u> Nitrogen (N ₂), Breathing Air (N ₂ O ₂),				
<u>Horsepower</u>	Pressure Rati	<u>o</u>	Helium (He), Nitrous Oxide (N ₂ O), Carbon				
2	7:1, 14:1, 30:1, 50:1, 92:1 Available in 2-stage and double acting configurations		Dioxide (CO ₂), Neon (Ne), Argon (Ar), Sulphur Hexafluoride (SF ₆), Oxygen (O ₂), Carbon Monoxide (CO), Hydrogen (H ₂),				
14 Models	Pressures to 15,000 PSI (1034 BAR)	145 lbs (66 kg) Max	Methane (CH ₄), Ethylene (C ₂ H ₄), Natural Gas (CH ₄)				

(818) 407-3400



AIR PRESSURE AMPLIFIERS AIR DRIVEN

<u>Drive Piston(s)</u> (Diameter)	<u>Area Ratios,</u> (Drive vs Boost Piston(s))			
3"	2.5:1, 4:1			
2 Models	Pressures to 675 PSI	7 lbs (max)		
5-3/4"	2:1, 5:1			
2 Models	Pressures to 1,250 PSI	36 lbs (max)		
7"	8:1			
1 Model	Pressures to 1,250 PSI	45 lbs (max)		

Basic Description and Benefits

These units are simplified versions of HII's gas booster design in that they are designed to boost (amplify) the pressure of the same gas (shop air) used for drive.

Benefits:

- Solve low air pressure problems at individual pneumatically actuated production machines.
- Provide higher test station air or nitrogen pressure economically.

HIGH PRESSURE VALVES

Туре	<u>Relief</u> 4 Models	<u>Pilot Cutoff</u> 11 Models	<u>Release/Unloading</u> 5 Models	<u>Check</u> 6 Models to 2" NPT	<u>On/Off</u> 2 Models
Pressures to	60,000 PSI	25,000 PSI	20,000 PSI	20,000 PSI	10,000 PSI
-	A second			H	Available in N.C. and N.O. configurations

GAS RECEIVERS 15 models

Pressures to 20,000 PSI. Volumes to 900cu. inches

FLOWMETERS LIQUID OR GAS

Туре		Turbine		Variable Area			
		Inline	Insertion	Tangential	Standard	Sanitary	Hydraulic 5000PSI
Range	Liquid		000 GPM	.001 - 2.0 GPM	.2 - 100) GPM	
nange	Gas	15,000 ACFM		2 ACFM	.2 - 400 SCFM		0 - 80 GPW
			2 di		-		
Flow Computer				Totalizing, Rate Display, Batching Mass. Intrinsically safe, Explosion proof, Weather Proof. Battery operated, AC/DC.			ner Proof.

PACKAGED SYSTEMS LIQUID OR GAS								
Hydraulic Test Unit	High Pressure O2/N2 Dual Cylinder Hand Truck	High Pressure O2/N2 Portable Unit	Air Amplifier with 200 PSI Receiver and Controls					

Detailed Literature Available

Catalog	s	Number	Includes
Kerner Kerne	iplifiers - ven	AA500	Principle of operation, replacing dedicated air compressor in large plants, installation, controls, schematics, and packaged systems. 4 Pages
Gas Bo Electri	oosters - c Driven	EGB-100	Principal of operation, features & benefits, applications, optional controls, dimensional data, performance curves and specifications. 4 Pages
Flowm Liquid	eters - or Gas	FM-100	Principle of operation, applications, design features, flow ranges and sizing guides with calculations. How to order. 58 Pages
Gas Boosters Gas browners Gas boosters Air or	oosters - Gas Driven	GB500	Principle of operation, benefits. Applications, typical schematics, selection tables, performance curves and modifications. 14 Pages
<image/>	Compact Gas Booster - Air or Manually Driven	GB504 GB505	Principal of operation, features & benefits, applications, optional controls, dimensional data, performance curves and specifications. 2 Pages each
Liquid Air or	Pumps - Gas Driven	LP500	Principle of operation, benefits. applications, installation detail, chart of rated pressures, port sizes, and weights, performance curves, standard modifications. 16 Pages
Packag Description Descriptio	ged Systems - , Boosters and plifiers	SP-100A	11 Packaged systems with ordering guides to fit each to specific applications 8 pages
High P Valves Compo	Pressure and onents	V-100	Relief, pilot cutoff, unloading, check, plus gas receivers and needle valves. 2 pages



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