

Application Guide



MAXPRO[®]
TECHNOLOGIES

Liquid Pumps

AIR DRIVEN FROM 60 PSI TO 60,000 PSI

OIL or OIL/ WATER MIXTURE SERVICE PUMPS

SERIES PPO, S, S-D and LO

The rugged construction, light weight and wide range of pressure ratios make these series of pumps ideal for powering a variety of oil/hydraulic operations.

Pressures to 14,500 psi.

- **Lifting and Jacking** – lifting tables, scissor jack lifts, beam jacking and aircraft jacking
- **Hydraulic Operation** – clamping devices, punch and pin presses, grippers, chucks, valve actuation
- **Presses** – cold isostatic presses, filter presses, hydraulic press actuation and system overload
- **Tooling and Tightening** – actuating cropping, crimping, cable shears and pipe bending tools; bolt tensioning and torque wrenches

WATER or OIL SERVICE PUMPS

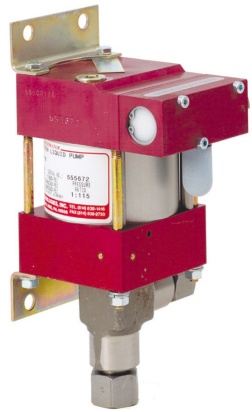
SERIES PP, L and HAND LEVER PUMP

The PP and L series pumps are available in single or double acting models with single or double air drive heads and stainless steel materials, making them an excellent choice for water applications.

PP series pumps are available with a hand lever option.

PP pump pressures to 58,000 psi. L pump pressures to 60,000 psi. Hand lever pressures to 31,900 psi.

- **Hydrostatic Testing** – valves, tanks, pressure vessels, pressure switches, hose, pipe and tubing, pressure gauges, cylinders, transducers, well casings, BOPs, gas bottles and air craft components
- **Burst and Cycle** – fatigue testing of above components
- **Calibration** – of pressure gauges and transducers
- **Water Blasting**



- **Paper** – roller tensioning, cutters/knives
- **Testing** – hydrostatic pressure testing and tensile test machines
- **Miscellaneous** – lubrication systems, trash compactors, truck bed and trailer wheel cylinders, powering small transfer cylinders, extraction of press fit gears and fittings, and replacement of hand pumps

- **Leak Testing** – and relief valve setting
- **Emergency** – shutdown systems for oil and gas wells
- **Pressurization** – of pressure vessels for testing various components
- **Operation and Control** – of well service and well head equipment
- **Hand Pump**



CHEMICAL SERVICE PUMPS

SERIES PPSF and LSF

PPSF and LSF series pumps are similar to the PP and L series described above and feature a distance piece and PTFE seals to address the specific requirements of chemical service.

PPSF pump pressures to 14,500 psi.

LSF pump pressures to 23,200 psi.

GX pump pressures to 14,500 psi.

DC pump pressures to 2,900 psi.

- **Inhibitor Injection** – of methanol and glycol in wells
- **Coolant Injection**
- **Aviation and Automotive Testing** – brake fluid, skydrol, transmission fluid and power steering fluid
- **Chemical Fluid Transfer and Pressurization**
- **Composite Injection, Urethanes and Acrylics**

SERIES GX

This is the largest of our liquid pumps. It provides high flow of most any fluid and is built of corrosion resistant materials, inside and outside.

SERIES DC

The DC series pumps are dual component liquid pumps capable of pumping two different liquids, separate and at the same time, in a corrosion resistant environment.

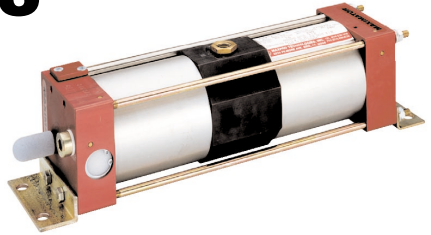
Air Amplifiers

Point-of-Use Air Solutions

Maximator® air amplifiers are designed to boost plant air pressure or increase the supply air pressure at work stations and pneumatically operated machinery when the available working pressure is insufficient. Air operated tools become more efficient when coupled with air amplifiers. These amplifiers are capable of generating pressures from 30 psi to 4,350 psi.

Applications

- **Boost insufficient shop air or supply air**
- **Work benches and equipment with limited space**
- **High pressure air cleaning of weld areas**
- **Drive pneumatic cylinders**
- **Improve efficiency of pneumatic tools and machinery**
- **Boost air for part removal, valve gates and/or automation equipment for injection molding**



Gas Boosters

AIR DRIVEN FROM 30 PSI TO 18,850 PSI

Maximator gas boosters are an excellent alternative to high pressure stationary type compressors. These boosters offer a compact, lightweight design that requires no electrical power or lubrication, thereby providing a more flexible and efficient source for delivering high pressure gas.

Maximator gas boosters will compress gases such as nitrogen and argon up to 18,850 psi, while oxygen can be compressed up to 5,000 psi using special seals and cleaning procedures. A wide variety of other gases can be compressed including hydrogen, natural gas, ethylene, nitrous oxide, neon, carbon dioxide, carbon monoxide and breathing air. Consult MAXPRO for special seals, venting, or cleaning requirements for these gases.



Applications

- Low pressure gas reclaim from storage bottles
- Breathing air systems for scuba and fire department tanks
- Gas pressure and leak testing
- Charging of accumulators
- Boosting gas pressures from nitrogen generators
- Nitrogen injection for molding machines
- Leak detection systems
- Low pressure autoclaving
- Typical Gases – air, nitrogen, helium, oxygen, carbon dioxide, nitrous oxide, neon, argon, hydrogen, carbon monoxide, methane, ethylene and natural gas

BREATHING AIR BOOSTER SYSTEMS

FOR FILLING and CHARGING:

- Industrial plant and fire safety air cylinders
- Municipal fire department storage cylinders
- SCBA or “escape” tanks
- Aircraft cylinders for inflating chutes and rafts
- Scuba dive tanks

OXYGEN BOOSTER SYSTEMS

FOR FILLING and CHARGING:

- Aircraft on-board oxygen tanks
- Scuba dive tanks
- Fire, safety and rescue SCBA back packs

NITROGEN BOOSTER SYSTEMS

- Servicing inflatable “pop floats” on aircraft
- Filling tires
- Servicing shock struts and charging hydraulic accumulators
- Nitrogen charging of accumulators

