

HYDROSTATIC TEST UNITS

Pressures to 20,000 PSI



Diesel and Electric Units Designed Especially for Production Testing.

Gardner Denver Water Jetting Systems, Inc. engineers its continuous duty Hydrostatic Testing Units specifically for oilfield and pipeyard pipe testing at pressures to 20,000 PSI.

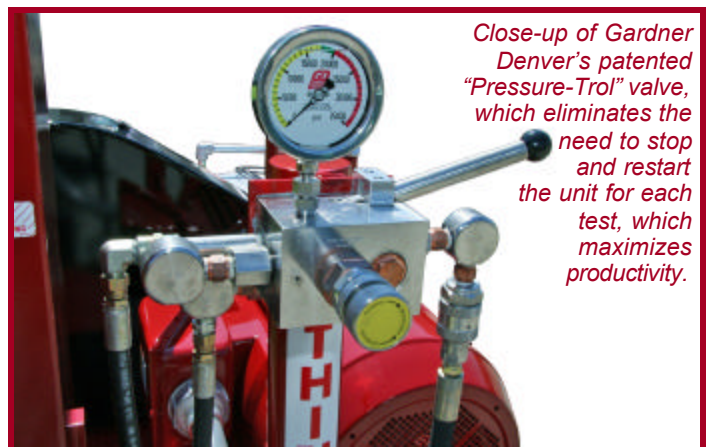
Gardner Denver's Hydrostatic Testing Units are known for their dependability world wide. Usually only one operator is required to conduct a complete hydrostatic evaluation, test the strength and integrity of drill, production, and casing pipe.

Both the diesel and electric Hydrostatic Testing Units are designed for optimum portability, and may be trailer or skid mounted. A special feature of these units is their exclusive "Pressure-Trol" system which allows the operator to regulate testing pressure and bleed-down with two centrally mounted levers without having to "clutch" the engine or shut down the electric motor. All engine gauges and start/stop controls are conveniently located on centralized control consoles.

Both the electric and diesel Units' depend upon the rugged Partek Triplex Pump. Partek pump components are fabricated from precipitation hardened stainless steel to maximize corrosion resistance. Pump valve and valve seats are field replaceable in 30 minutes with ordinary hand tools.

Advantages

- ◆ High daily testing rates.
- ◆ Built for continuous duty.
- ◆ Increase in production with simple-to-operate controls.
- ◆ Eliminates motor and pump starts/stops.
- ◆ "Pressure-Trol" rated to 20,000 PSI working pressure.
- ◆ Field replaceable pump parts reduce downtime.
- ◆ Optional centrifugal fill pump.



Close-up of Gardner Denver's patented "Pressure-Trol" valve, which eliminates the need to stop and restart the unit for each test, which maximizes productivity.



A skid-mounted HT-610ES electric Hydrostatic Testing Unit featuring V-belt drive, Pressure-Trol, control panel, and charge pump. The compact design of this unit makes it practical and popular in pipe yards.

PIPEYARD PRODUCTIVITY MADE EASY!

Every component of Gardner Denver Hydrostatic Testing Units is designed with a specific customer benefit. Below is detailed information on other unit components.

T-300M/H PUMP

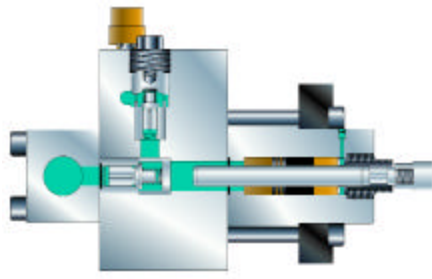
The 100 HP T-300 pump consists of the power end and a fluid end. The power end, consisting of crankshaft, connecting rods and crossheads transmits power from the pump driver (either diesel or electric) to the fluid end. Two standard fluid ends are offered for the T-300; the Standard "L" for pressures from 8,000 to 15,000 PSI and the inline (T-300H) for pressures from 15,000 to 20,000 PSI. Other pumps are available for higher horsepower or higher pressure requirements.

Fluid End

All of Partek's fluid ends share several features to significantly improve the pump's life, performance and maintainability.

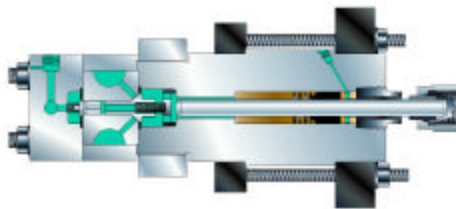
- ◆ All high pressure wetted components are constructed of special high strength stainless steel to eliminate corrosion and maximize strength.
- ◆ Suction manifolds are manufactured from aircraft grade aluminum to facilitate field service. Stainless steel is available for salt water service.
- ◆ Standard "L" style fluid cylinders and inline style stuffing boxes and valve seats are *autofrettagged* to provide maximum strength and reliability. (Autofrettaging is a unique process that utilizes ultrahigh pressure to significantly increase component life.)
- ◆ Partek fluid end designs are characterized by minimal internal clearances to insure highest possible volumetric efficiency. High volumetric efficiency allows the pump to operate at slower, life extending speeds.
- ◆ Plungers are collet style for positive alignment and rapid removal.
- ◆ Plungers and packing are lubricated and cooled by water. Unlike messy oil or grease systems, water lubrication is environmentally safe, inexpensive and requires minimal maintenance.
- ◆ Partek's APC (advanced polymer composite) packing systems utilize space age materials and spring loading to deliver long, even wear.

- ◆ Partek fluid ends are configured to permit rapid removal of packing and brass from the rear of the stuffing box through the pump cradle.



Standard "L" Operation to 15,000 PSI

With thousands in service, the "L" fluid end is clearly the water jetting industry's standard of excellence. This simple design features easy removal of valves, plungers and packing for fast, efficient field maintenance. Plungers are colmonoy coated stainless steel, which, unlike fragile ceramic styles, are not affected by thermal shock.



Inline Operation from 15,000 to 22,000 PSI

Since its introduction in 1982, the Partek inline fluid end design has performed flawlessly in applications all over the world. Horizontal, "in line" suction and discharge valves and seats eliminate intersecting bores which can lead to premature fluid end failures at pressures above 15,000 PSI.

Gardner Denver Water Jetting Systems offers a unique reconditioning service for valves and seats which adds hundreds of hours of life while reducing operating costs. Plungers are solid polished tungsten carbide resulting in exceedingly long plunger and packing life.

Power End

- ◆ Extra-heavy, steel crankshaft, tapered roller bearings and large cylindrical crossheads assure accurate alignment and long life.
- ◆ All components run in a heavy, precision machined cast iron frame.
- ◆ High-capacity, gravity splash oil system provides even, thorough lubrication.
- ◆ Double-lip baffle seals and splash deflectors avert power end oil contamination.
- ◆ Equipped with sight gauge and safety system to shut down the unit if power end oil falls below or exceeds optimum operating level.

Options

- ◆ Oil drip plunger lube system.
- ◆ 15' and 25' suction and discharge "C" pump hoses with foot valve.
- ◆ High-pressure pump discharge hose.
- ◆ Tool box.
- ◆ Pressure recorders.
- ◆ Water filter assembly.
- ◆ Centrifugal fill pumps.
- ◆ Offshore unit packages.
- ◆ Caged units with overhead lifting capabilities.

The T-300M and H triplex pumps are easily field serviceable with common hand tools. The T-300M works at pressures to 15,000 PSI, and flows to 18.4 GPM. The T-300H is an inline pump with pressures to 20,000 PSI and flows to 10.3 GPM. There are thousands in service throughout the world.



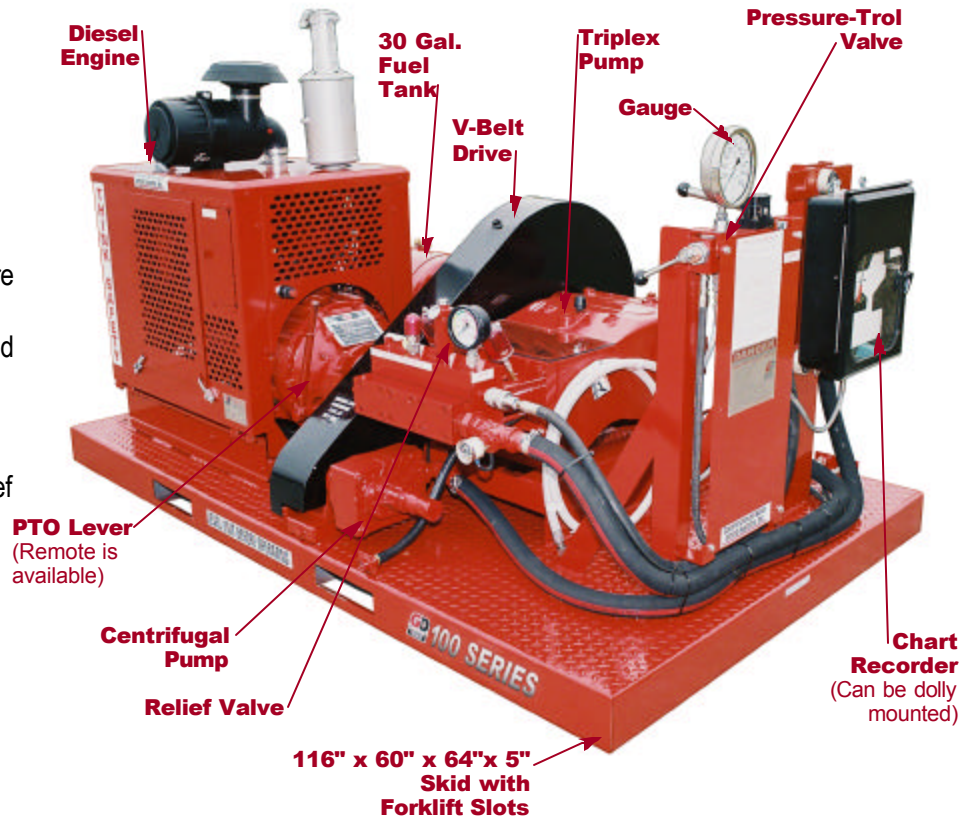
T-300H

TYPICAL UNITS LOADED WITH FEATURES.

DIESEL UNIT

Standard Equipment

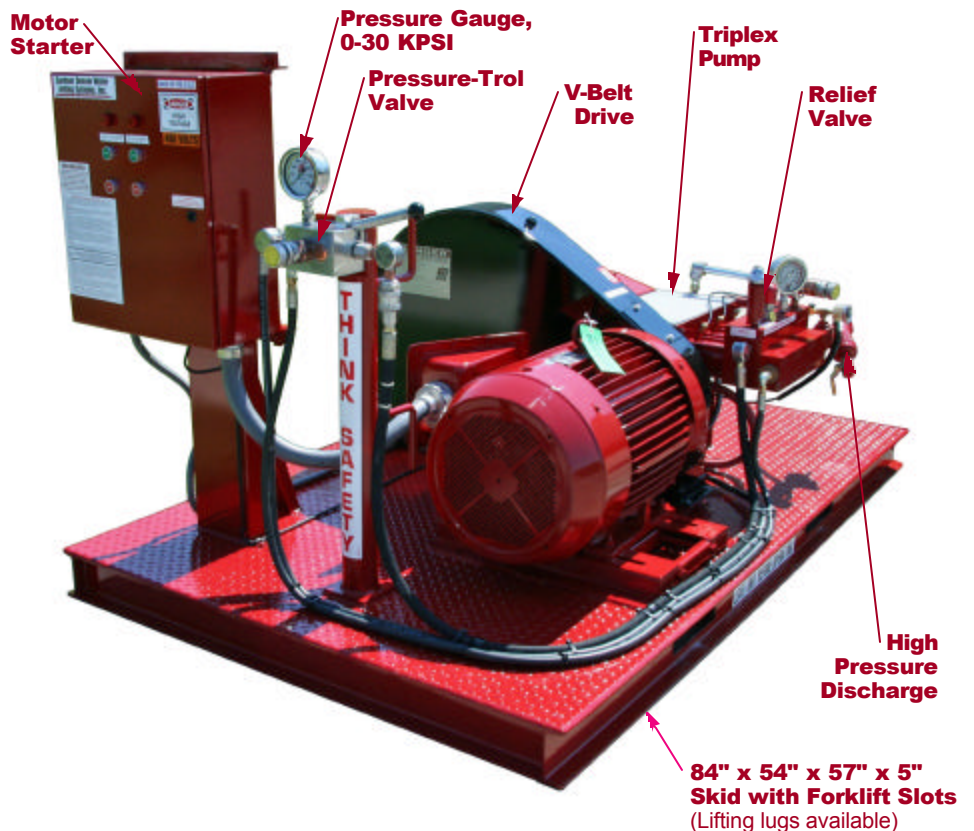
- ◆ Skid or trailer mounted available.
- ◆ Partek T-300 pump - belt drive.
- ◆ Diesel engine.
- ◆ High temperature / low oil pressure safety shut-down system.
- ◆ "Pressure-Trol" pressure control and pressure bleed-off system.
- ◆ 30-gallon gauged fuel tank.
- ◆ 12-volt heavy-duty battery.
- ◆ Overpressure safety systems: relief valve and rupture disc assembly.



ELECTRIC UNIT

Standard Equipment

- ◆ Skid or trailer mounted available.
- ◆ Partek T-300 pump - direct drive.
- ◆ 75 HP TEFC 480 VAC heavy-duty electric motor and motor starter.
- ◆ "Pressure-Trol" pressure control and pressure bleed-off system.
- ◆ Oil drip lube system (plungers).
- ◆ V-belt drive system.
- ◆ Overpressure safety systems: relief valve and rupture disc assembly.





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This HT-115DS diesel hydrostatic testing unit features oil lube and charge pump. It features a T-300M pump with pressures to 15,000 PSI.



This unique HT-606DS unit was engineered for specific client requirements, featuring a TF-375M pump which moves 50 GPM at 6,000 PSI. Dual filtration, belt-driven c-pump and fuel tank are on the other side.

MTO for Every Size, Pressure and Flow.

Choice is how we meet each customer's requirements!



This HT-108XDT is a full-featured trailered hydrostatic tester utilizes a T-300M pump with flows up to 18 GPM at 8,000 PSI.

This HT-110DS was built to customer specifications using a special small 21 HP diesel motor with clutched PTO, and a T-300M pump to move 2.6 GPM at 10 KPSI. Note the Pressure-Trol Valve mounted on the hose rack and dolly mounted chart recorder.



Your SINGLE SOURCE Water Jetting Solution.

