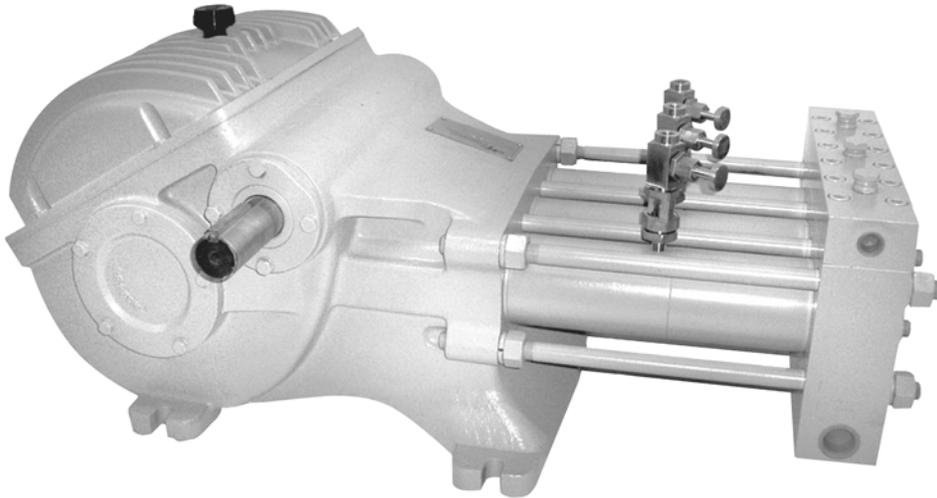


# HP-550



# HYDROPLEX

High Pressure Pump and System Specialists



## FEATURES

- Pressure to 38,000 psi\*
- Continuous Duty Operation
- Internal Helical Gear Reduction
- Durable and Compact
- Quiet Running
- Splash Lubrication
- Easy Field Maintenance
- High Output Efficiency
- High Quality Materials and Workmanship
- Corrosion Resistant Hardware

## APPLICATIONS

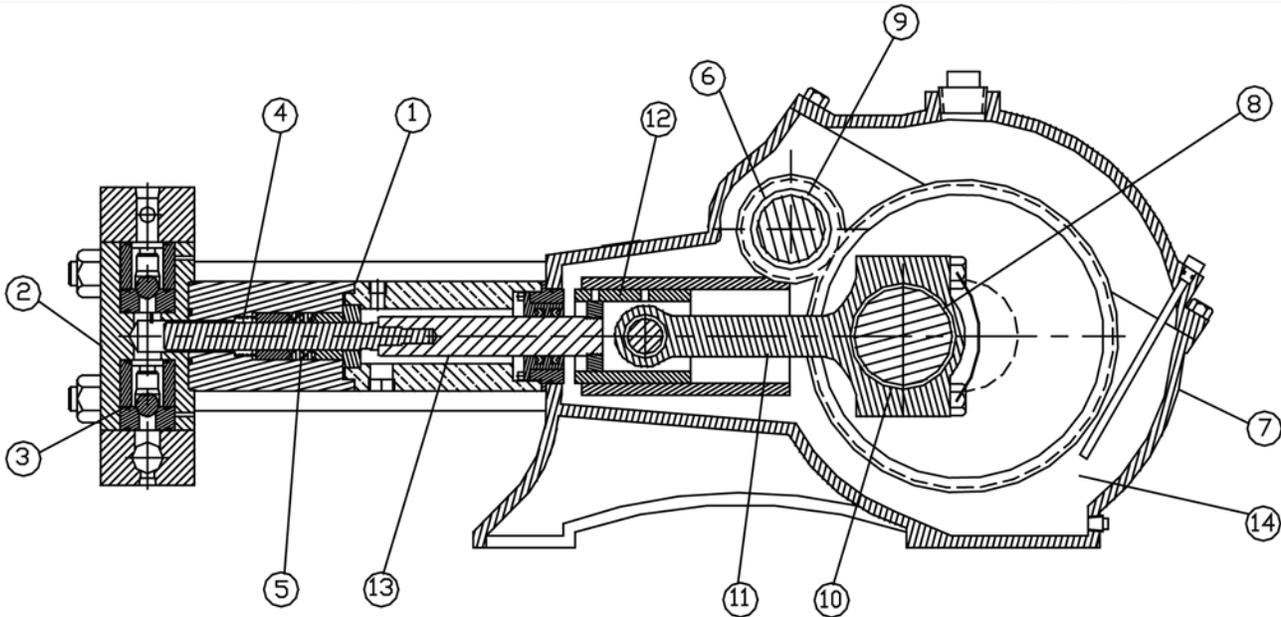
- Methanol Injection (special models available)
- Hydrostatic Testing
- Chemical Injection
- Downhole Equalization

## MORE

- Maximum Continuous Power 80 HP
- Maximum Intermittent Power 110 HP
- Internal Gear Ratio 3.95:1
- Maximum Continuous Input RPM 1800 RPM
- Maximum Intermittent Input RPM 2200 RPM
- 3.75" Stroke Length
- Available with 4-bolt SAE "C" female splined shaft for direct hydraulic drivers

Plunger Dia.	Maximum Pressure PSI	Gallons Per Input Revolution	Volumes							
			2200 RPM		2000 RPM		1800 RPM		100 RPM	
			GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
7/16"	38,000 *	.00185	4.07	140	3.70	127	3.33	114	.19	6.34
1/2"	20,000 *	.0024	5.28	181	4.80	165	4.32	148	.24	8.22
5/8"	20,000 *	.0038	8.36	287	7.60	261	6.84	235	.38	13.03
3/4"	15,000	.0054	11.88	407	10.80	370	9.72	333	.54	18.51
7/8"	10,000	.0074	16.28	558	14.80	507	13.32	457	.74	25.37
1"	8,000	.0096	21.12	724	19.20	658	17.28	593	.96	32.91
1-1/8"	6,300	.0122	26.84	920	24.40	836	21.96	753	1.22	42
1-1/4"	5,000	.0151	33.22	1,139	30.20	1,244	27.23	1,121	1.51	51.77

Above flowrates based upon 100% volumetric efficiency  
 \*Please consult with factory for pressures over 20,000 psi



## Fluid End

- 1. Split Cylinder** The packing cylinder can be readily removed, thus giving easy accessibility to all replacement wear parts. Packing and plunger changes require minimal down time.
- 2. Fluid Cylinder Body** Machined from high quality solid block alloy or stainless steel, ground to precision for maximum pump performance.
- 3. Discharge and Suction Valve Assemblies** Each valve assembly is interchangeable and made from precision machine ground, hardened 17-4 PH stainless steel. No wing guide or threads are required, reducing field maintenance and increasing pump efficiencies. The Hydroplex ball valve is rated to 30,000 psi and features a reversible seat in hardened stainless steel. Balls are highly polished, ground and hardened stainless steel. All o-ring seals are flat surface designed, which reduces o-ring cutting and provides maximum pressure sealing.
- 4. Power Plungers** The power plunger is heat-treated stainless steel ground and polished to an 8 rms surface finish with 60 Rockwell C hardness.
- 5. Plunger Packing** Multiple element Chevron style packing is used and is self adjusting, requiring minimal field maintenance. Packing lubrication and plunger cooling ports are provided for external water or oil lubrication.

## Power Body

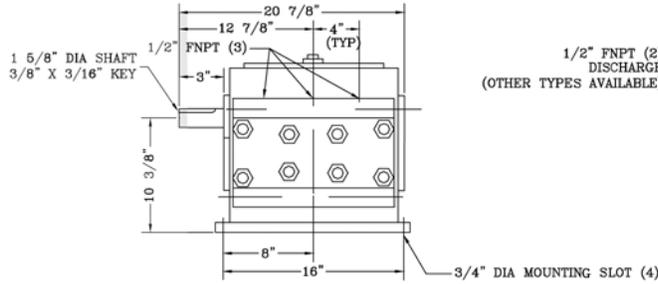
- 6. Direct Drive** Quiet running pinion and main gears are helical cut and machined from high strength alloy steel, and can rotate in either direction. The internal gear reduction allows for direct drive coupling to most power sources.
- 7. Crankcase** Oilfield rugged cast iron case protects internal components and the upper half of the case is easily removed for inspection and service.
- 8. Automotive Type Crankshaft** Forged from alloy steel and balanced for continuous duty operations.
- 9. Shaft Bearings** Precision conical tapered roller bearings support each shaft end.
- 10. Crankshaft Journal Bearings** Journal bearings are high quality automotive type steel-backed inserts.
- 11. Connecting Links** Links are cast iron with replaceable wrist-pin bearings.
- 12. Crossheads** Heavy duty ductile iron crossheads eliminate side loads on power plungers.
- 13. Pony Rods** Rods are smoothly ground and highly polished stainless steel, threaded and pinned to align perfectly with the cross head and power plunger.
- 14. Continuous Splash Lubrication** Oil in the crankcase reservoir is picked up by the main helical gear and spread to all moving parts.\*

\*Optional auxiliary lube available for low speed operation.

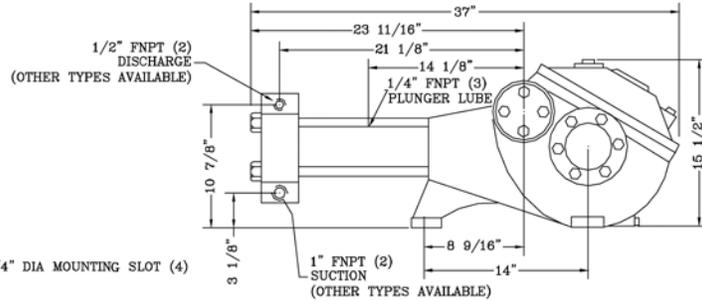
# HP-550

# HYDROPLEX

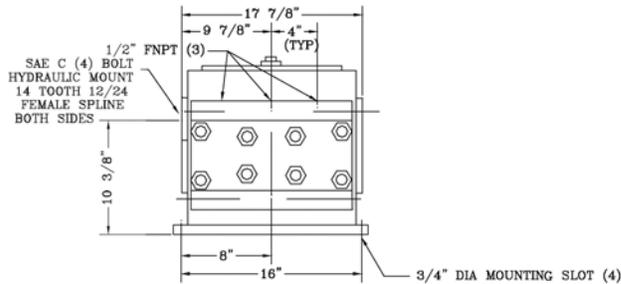
High Pressure Pump and System Specialists



**Fluid End View  
Shaft Drive Version**



**Side View**



**Fluid End View  
Hydraulic Drive Version**

## Dimensions

## Other Items Available From Hydroplex

- Complete skid or trailer mounted units, standard or custom designed
- High pressure check valves to 30,000 psi
- Pressure regulators, manual or pneumatically operated
- High pressure relief valves to 20,000 psi



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