



Features

- Pressure to 38,000 psi*
- Durable and Compact
- Splash or Pressurized Lubrication Systems
- Easy Field Maintenance
- High Output Efficiency
- Corrosion Resistant Hardware

Applications

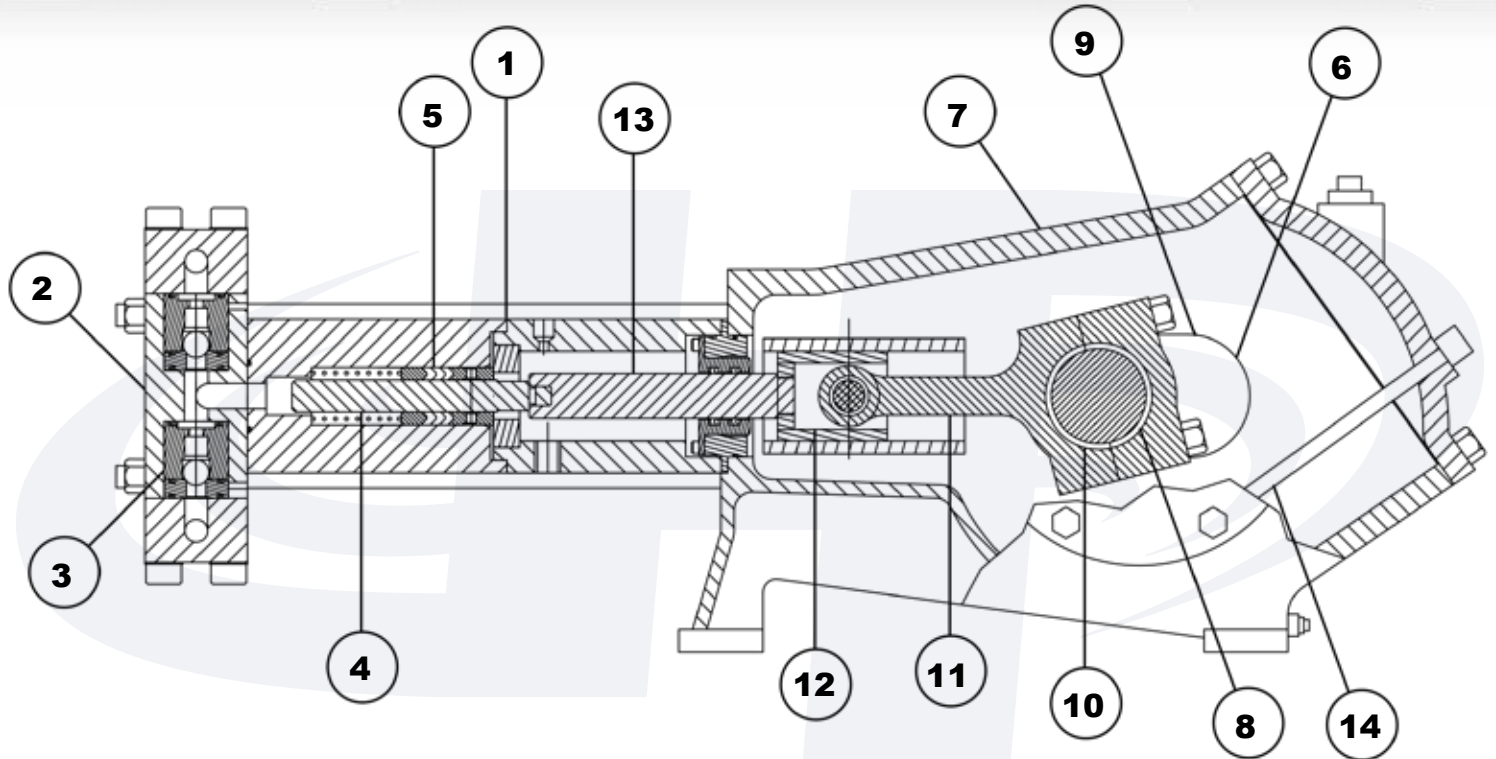
- Methanol Injection
- Hydrostatic Testing
- Chemical Injection
- Downhole Equalization
- Flushing
- HPU Charging
- Hydroforming

More

- Maximum Continuous Power 35 HP
- Maximum Intermittent Power 40 HP
- Maximum Continuous Input RPM 400 RPM
- Maximum Intermittent Input RPM 450 RPM
- 1.75" Stroke Length
- Available with 4-bolt SAE "C" female splined shaft for direct coupling of hydraulic motors

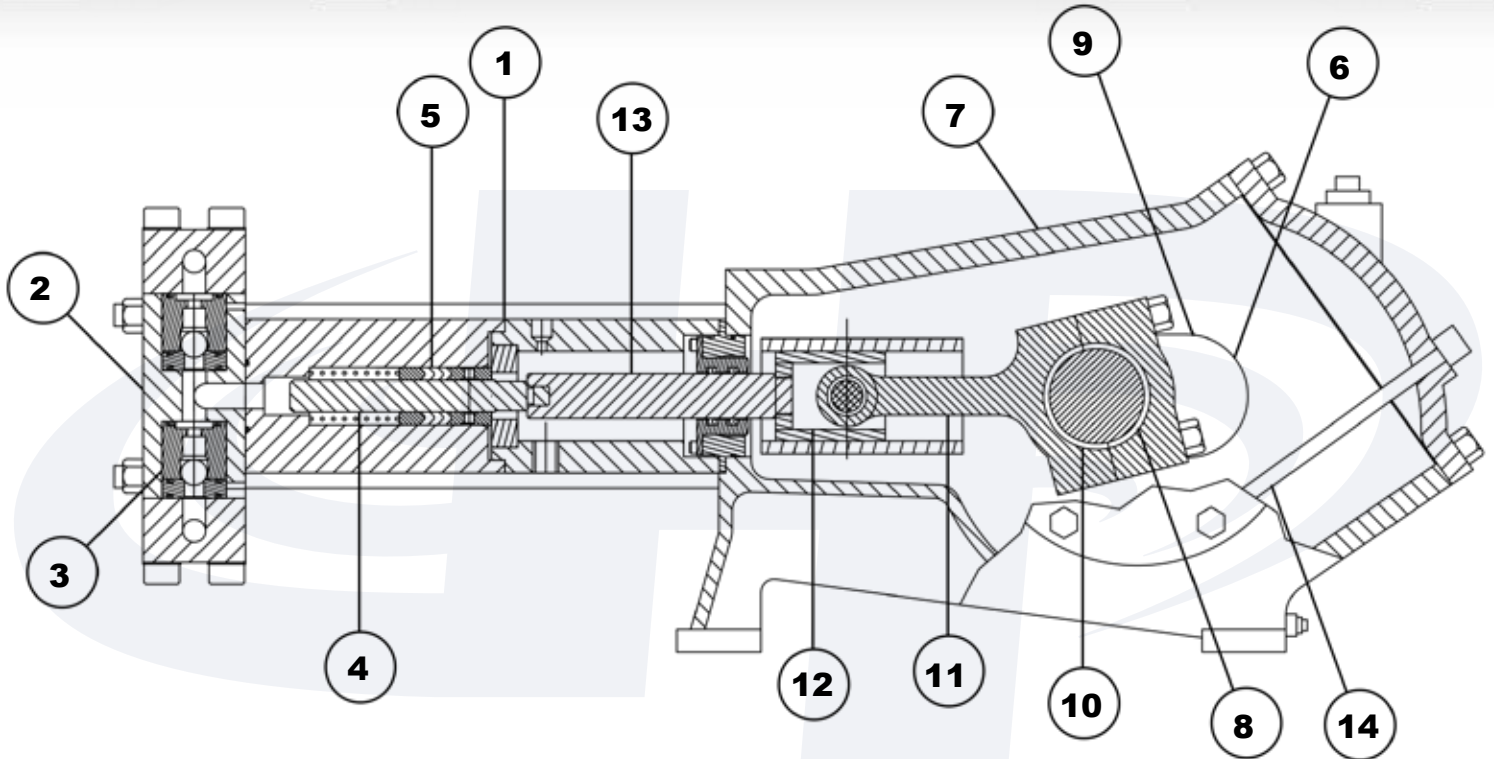
Plunger Dia.	Maximum Pressure PSI	Gallons Per Input Revolution	Volumes							
			450 RPM		400 RPM		100 RPM		50 RPM	
			GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
3/8"	30,000*	.0025	1.12	38.39	1.00	34.28	.25	8.57	.12	4.11
7/16"	30,000*	.0034	1.53	52.44	1.36	46.62	.34	11.66	.17	5.83
1/2"	22,500*	.0044	1.98	67.89	1.76	60.34	.44	15.09	.22	7.54
5/8"	15,000	.0070	3.15	108.00	2.80	96.00	.70	24.00	.35	12.00
3/4"	10,000	.0100	4.50	154.29	4.00	137.14	1.00	34.29	.50	17.14
7/8"	8,000	.0137	6.16	211.00	5.48	188.00	1.37	47.00	.68	23.50

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 double 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 for extended packing life.
- 5. Plunger Packing** Multiple element Chevron style packing is used and is self adjusting, requiring minimal field maintenance. Packing lubrication is achieved with gravity oil drip or grease injection.



Power Body

6. Pump Drive Quiet running internal drive train cut and machined from high strength alloy steel. Assembled with conical tapered roller bearings.

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 bushings.

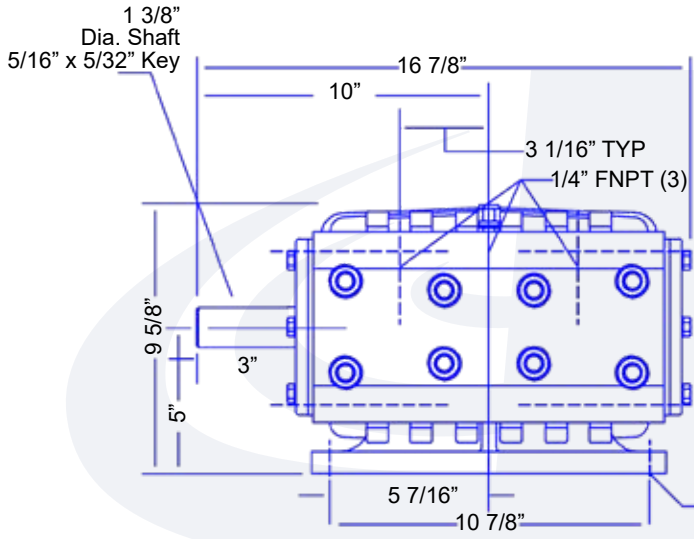
12. Crossheads Heavy duty ductile iron crossheads eliminate side loads on power plungers.

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.

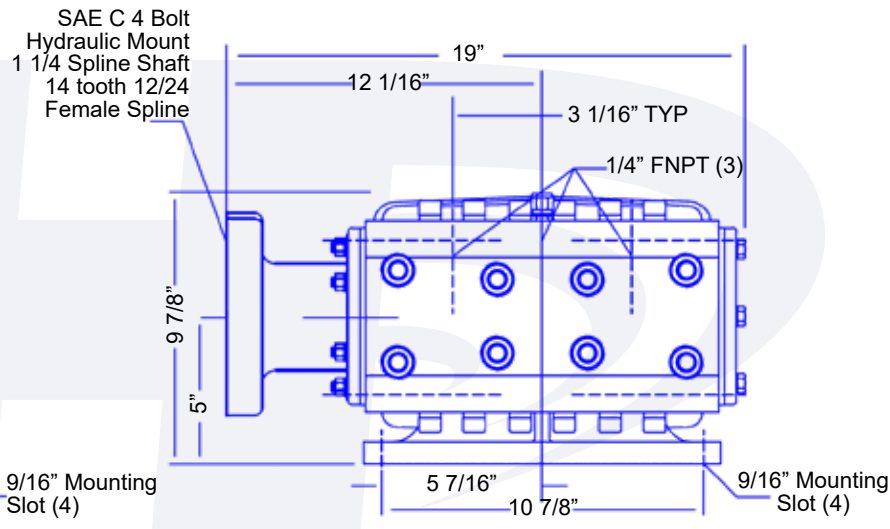
14. Continuous Splash Lubrication Oil in the crankcase reservoir is picked up by the crankshaft and spread to all moving parts.*

*Optional auxiliary lube available for low speed operation.

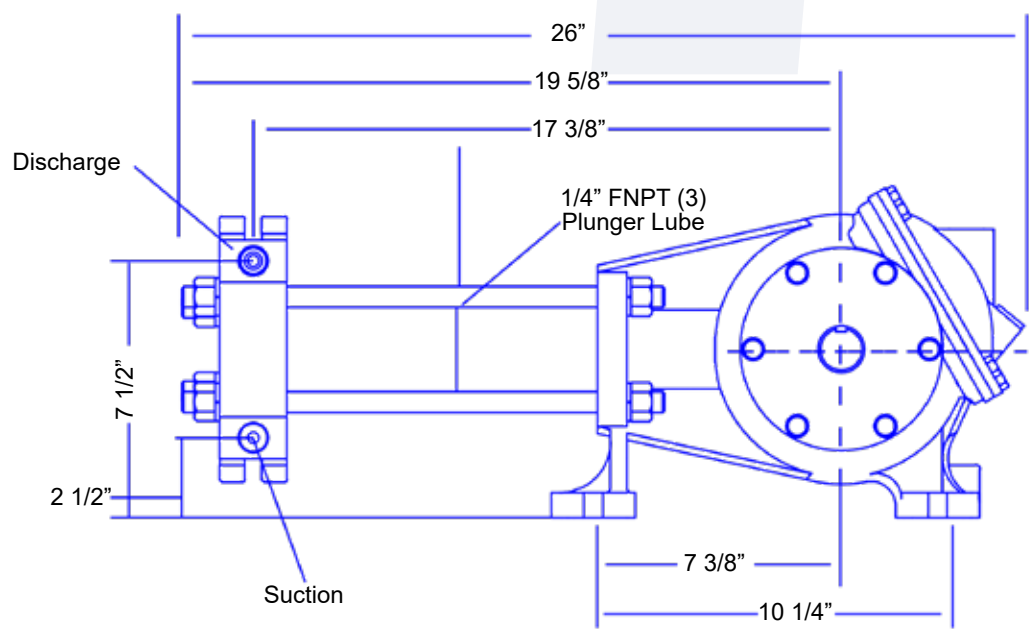
Dimensions



**Fluid End View
Shaft Drive Version**



**Fluid End View
Hydraulic Drive Version**



Side View