

## Features

- Pressure to 20,000 psi\*
- Internal Helical Gear Reduction
- Durable and Compact
- Splash or Pressurized Lubrication Systems
- Easy Field Maintenance
- High Output Efficiency
- Corrosion Resistant Hardware

## Applications

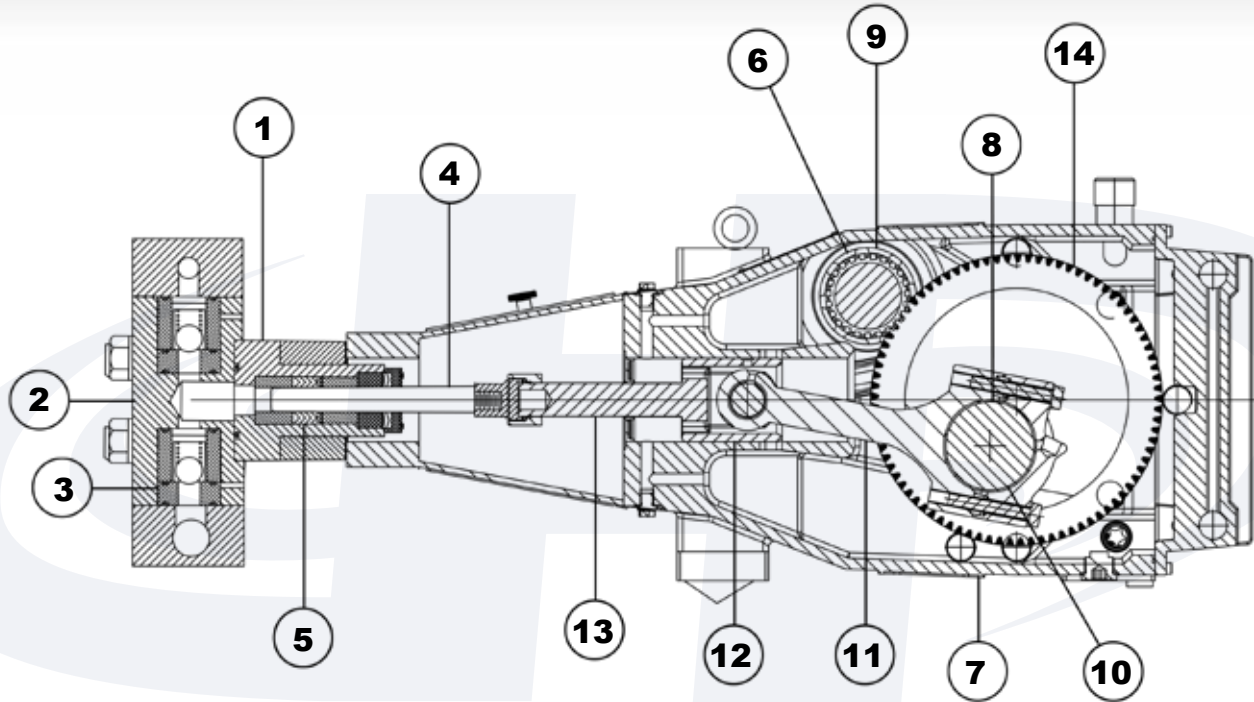
- Methanol Injection
- Hydrostatic Testing
- Chemical Injection
- Downhole Equalization
- Flushing
- HPU Charging
- Well Service

## More

- Maximum Continuous Power 120 HP
- Maximum Intermittent Power 150 HP
- Internal Gear Ratio 3.69:1
- Maximum Continuous Input RPM 1350 RPM
- Maximum Intermittent Input RPM 2150 RPM
- 3.75" Stroke Length

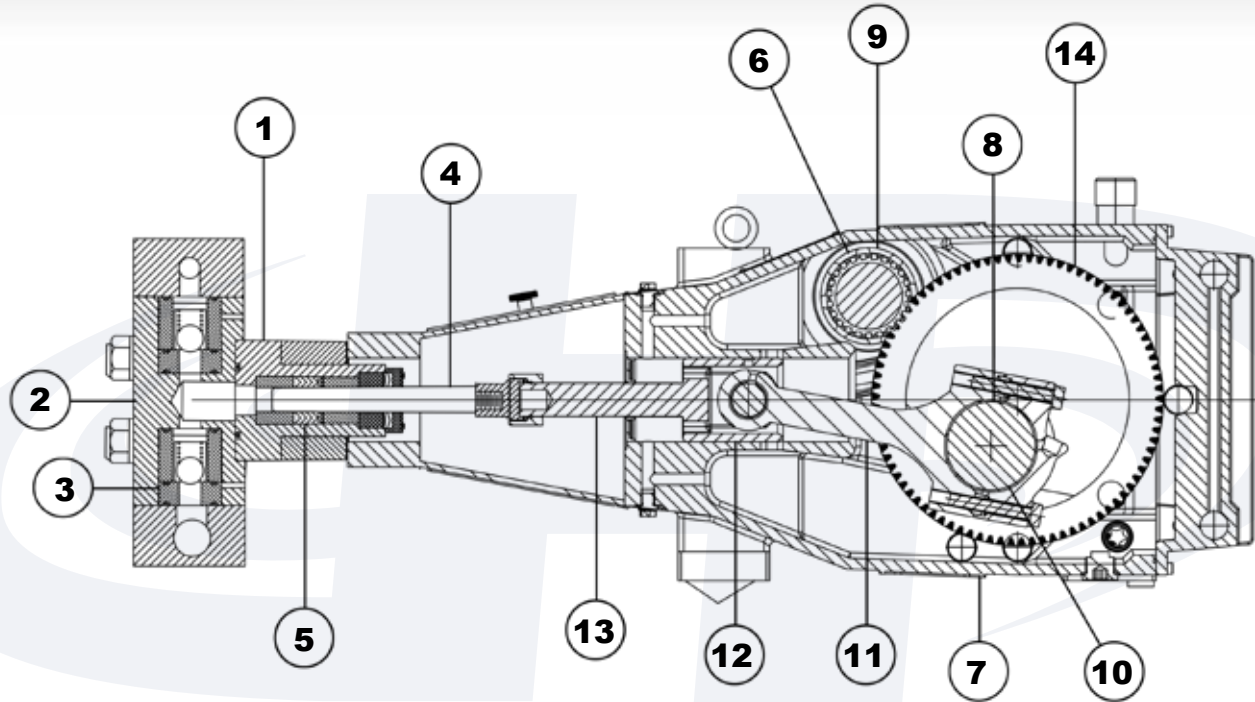
Plunger Dia.	Maximum Pressure PSI	Gallons Per Input Revolution	Volumes							
			2150 RPM		2000 RPM		1800 RPM		100 RPM	
			GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
3/4"	20,000*	.0059	12.68	435	11.80	405	10.62	364	.59	20.22
7/8"	15,000	.0080	17.20	590	16.00	549	14.40	494	.80	27.44
1"	11,300	.0105	22.58	774	21.00	720	18.90	648	1.05	36.00
1-1/8"	9,000	.0132	28.38	973	26.40	905	23.76	815	1.32	45.28
1-3/16"	8,100	.0146	31.40	1,076	29.20	1,001	26.28	901	1.46	48.60
1-1/4"	7,200	.0163	35.05	1,201	32.60	1,118	29.34	1,005	1.63	55.83
1-3/8"	6,000	.0197	42.36	1,452	39.40	1,350	35.48	1,216	1.97	67.56
1-1/2"	5,000	.0234	50.31	1,725	46.80	1,604	42.12	1,444	2.34	80.22

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 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. 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 bushings.

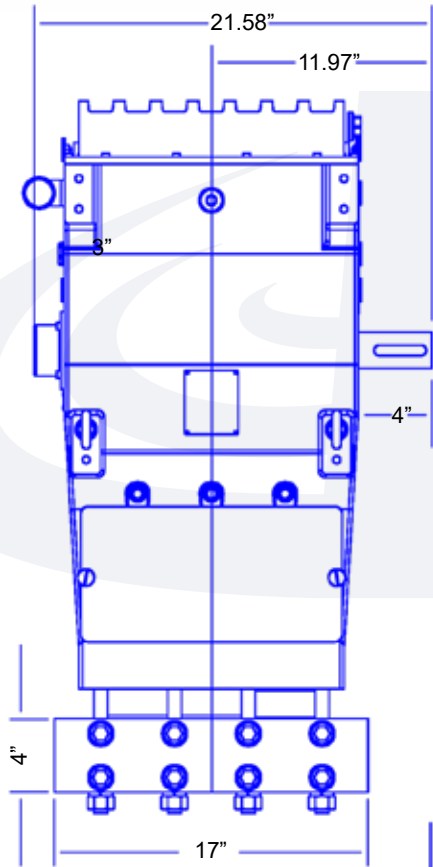
**12. Crossheads** Heavy duty ductile iron crossheads eliminate side loads on power plungers.

**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.

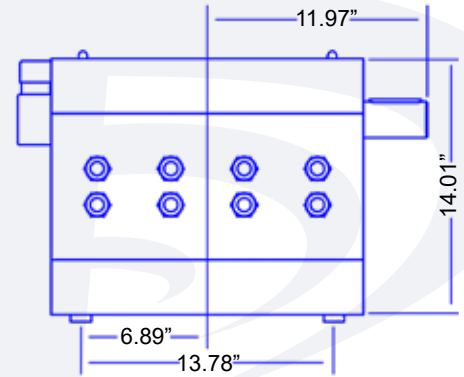
**14. Continuous Splash Lubrication** Oil in the crankcase reservoir is picked up by the main helical gear and spread to all moving parts.\*

\*Optional auxiliary lube available for low speed operation.

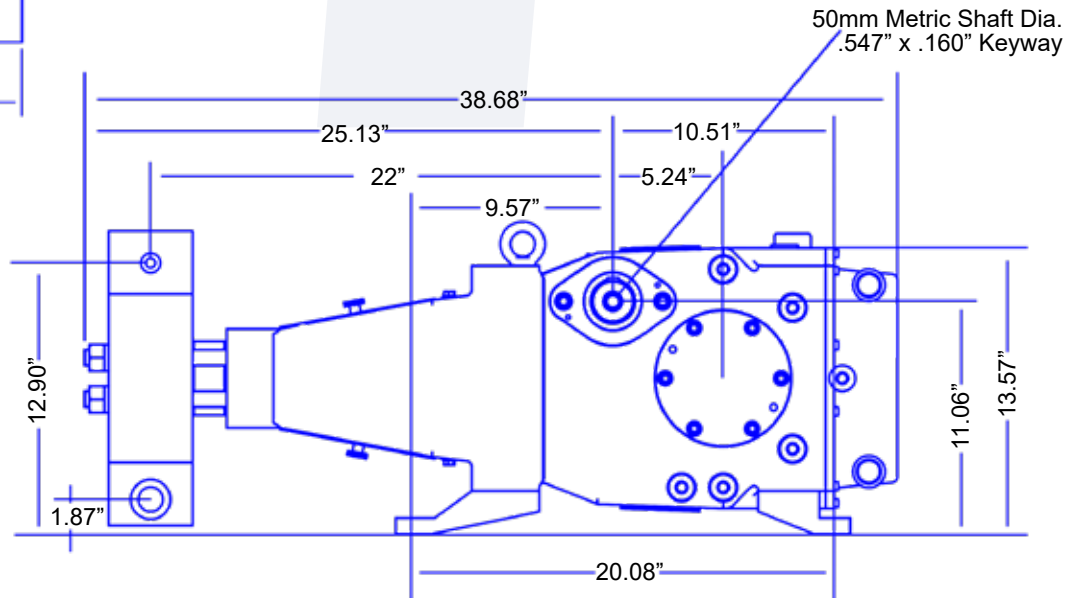
## Dimensions



**Top View**



**Front View**



**Side View**