

GD 1600-LW Light Weight Well Stimulation Pump



Specifications	Well Service
Maximum Input	1,600 BHP (1,195 kW)
Maximum RPM	330
No. of Plungers	3
Stroke Length	8" (203 mm)
Plunger Load	200,000 lbs. (90,720 kg)
Pump Weight	9,000 lbs. (4,082 kg)
Gear Ratio	9:1

GD 1600-LW Intermittent Duty Well Service Ratings

Plunger Diameter		Displacement per Revolution		Displacement at Pump RPM - Well Stimulation Application															
				100				150				200				330			
in.	mm.	Gal/Rev.	Liter/Rev.	GPM	LPM	PSI	kg/sq. cm	GPM	LPM	PSI	kg/sq. cm	GPM	LPM	PSI	kg/sq. cm	GPM	LPM	PSI	kg/sq. cm
Forged Steel Autofrettaged High Pressure Valve Over Valve Fluid Ends																			
3.75	95	1.15	4.34	115	434	18100	1273	172	651	14300	1009	229	868	10750	756	378	1433	6500	457
Forged Steel Autofrettaged Medium Pressure Valve Over Valve Fluid Ends																			
4.5	114	1.65	6.25	165	625	12600	886	248	938	9950	700	330	1250	7450	524	545	2063	4550	320
5	127	2.04	7.72	204	772	10200	717	306	1158	8050	566	408	1544	6050	425	673	2547	3650	257
5.5	140	2.47	9.34	247	934	8400	591	370	1401	6650	468	493	1868	5000	352	814	3082	3050	214
Forged Steel Autofrettaged Low Pressure Valve Over Valve Fluid Ends																			
5.5	140	2.47	9.34	247	934	8400	591	370	1401	6650	468	493	1868	5000	352	814	3082	3050	214
6	152	2.94	11.11	294	1111	7100	499	440	1667	5600	394	587	2223	4200	295	969	3668	2550	179
6.5	165	3.45	13.04	345	1304	6050	425	517	1957	4800	337	689	2609	3600	253	1137	4304	2150	151
Input Power:		BHP		1350				1600				1600				1600			
		kW		1007				1193				1193				1193			

Notes: Ratings are based on 90% mechanical efficiency and 100% volumetric efficiency.

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Standard Features

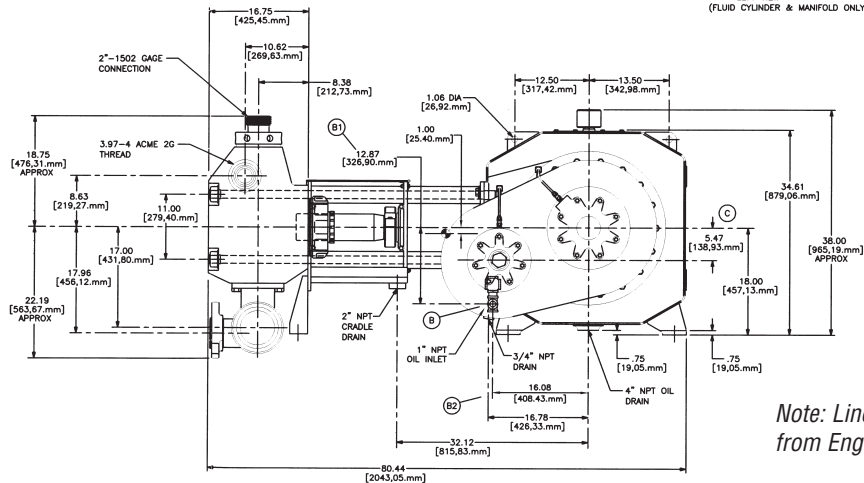
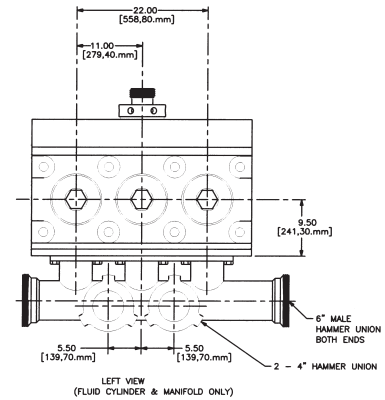
- Gearbox design
- Crankshaft type construction
- Left or right gear box mounting
- Suction and discharge on either side
- Clamp connections between plungers and extension rods
- Colmonoy plungers
- Cradle cover
- Autofrettaged fluid cylinder with through stud design
- Forged steel fluid end and plunger sizes ranging from 3.75" to 6.5"
- Replaceable WECO discharge connections
- 6" suction manifold with Victaulic or flanged connections
- Header-ring style packs
- Standard fluid end tool kit

Material Specifications

- | | |
|-------------------------------|--------------------------------------|
| • Cylinder | Forged SAE 4330 steel |
| • Packing | Adjustable or header ring |
| • Stuffing Box | Replaceable steel |
| • Crankshaft | Forged steel surface hardened |
| • Connecting Rods | Steel hardened surface |
| • Crossheads | High strength 4140 steel |
| • Crossheads Slides | High strength steel |
| • Tie Rods | Alloy steel with cold rolled threads |
| • Main Bearings | Roller |
| • Spherical Crosshead Bearing | Bronze |

Optional Equipment

- Dual discharge flanges
- Multiple center gauge connections
- Suction stabilizers
- Discharge pulsation dampeners
- Valve seat puller assembly
- Hydraulic torque wrench
- Companion flanges



Note: Line drawings are available from Engineering per application.

**Gardner
Denver**