

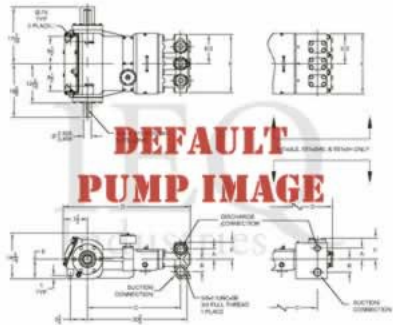
Wheatley, 5830, Triplex, Piston Pump (Mud Pump)

Pumps in this series

5830

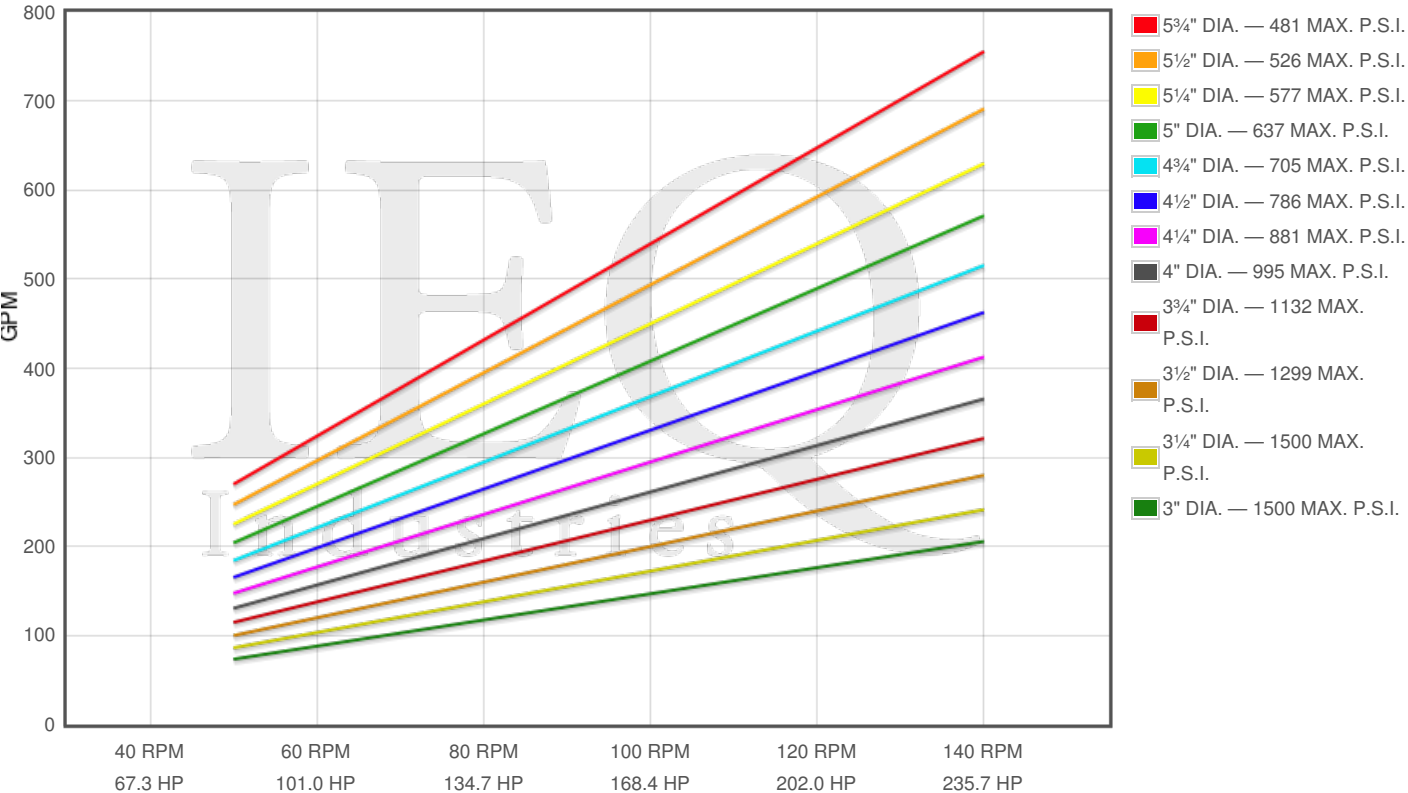
Specs

Spec	U.S. Standard
Type:	triplex
Minimum Piston Diameter:	3"
Maximum Piston Diameter:	5¾"
Stroke length:	8"
Maximum Working Pressure:	1,500 PSI
Rod/Piston Load:	12500lb
Gallons per Minute:	725.0
Barrels per Day:	24857
Brake Horse Power:	244.0



Pump Curves

Hover over Power Curves to reveal RPM and GPM



Performance Data Table

Pump	English Units					50 RPM		75 RPM		100 RPM		125 RPM		140 RPM	
	Plunger Dia. In.	Plunger Area Sq. In.	BPD per RPM	GPM per RPM	Max Press. PSI	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM
5830	5.750	25.9672	184.998	5.3958	481	9250	270	13875	405	18500	540	23125	674	25900	755
	5.500	23.7583	169.261	4.9368	526	8463	247	12695	370	16926	494	21158	617	23697	691
	5.250	21.6475	154.224	4.4982	577	7711	225	11567	337	15422	450	19278	562	21591	630
	5.000	19.6350	139.885	4.0800	637	6994	204	10491	306	13989	408	17486	510	19584	571
	4.750	17.7205	126.247	3.6822	705	6312	184	9469	276	12625	368	15781	460	17675	516
	4.500	15.9043	113.307	3.3048	786	5665	165	8498	248	11331	330	14163	413	15863	463
	4.250	14.1863	101.067	2.9478	881	5053	147	7580	221	10107	295	12633	368	14149	413
	4.000	12.5664	89.527	2.6112	995	4476	131	6715	196	8953	261	11191	326	12534	366
	3.750	11.0447	78.686	2.2950	1132	3934	115	5901	172	7869	229	9836	287	11016	321
	3.500	9.6211	68.544	1.9992	1299	3427	100	5141	150	6854	200	8568	250	9596	280
	3.250	8.2958	59.102	1.7238	1500	2955	86	4433	129	5910	172	7388	215	8274	241
	3.000	7.0686	50.359	1.4688	1500	2518	73	3777	110	5036	147	6295	184	7050	206

GASO PISTON PUMPS

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Power End Specifications

- Power Frame.* High-strength gray iron alloy casting with heavy wall sections, well ribbed to ensure rigid construction and design to fully enclose all working parts.
 - Gears.* Continuous to Sykes herringbone construction. Main gear is heat treated high-grade ductile iron. Pinion gear is cut from forged alloy steel and hardened.
 - Crankshaft.* Have a center section for mounting main gear. Large diameter crank pins
 - Pinion Shaft.* Alloy steel bar stock, machine and precision ground.
 - Bearings.* Heavy duty tapered roller bearings on crankshaft. Self-contained double roll bearings on pinion shaft to permit free floating of shaft for self centering of peers.
 - Connecting Rods.* Heavy cross section castings with renewable Babbitt lined steel shell bearings and crank and; bronze bushing in cross head end.
 - Lubrication.* All power and parts including gears, cross heads, connecting rod bearings, crankshaft bearings and pinion crank shaft bearings, are lubricated by splash system from lubricant in crankcase reservoir.
- Fluid End Specifications**
- Power Frame.* Alloys stocked are Molybdenum's cast iron and cast steel. Fluid ounce can be trimmed out for pumping various liquids. Ductile iron can be furnished upon request.
 - Cylinder Heads.* Heavy section alloy casting to match material of pump fluid body.
 - Valve Covers.* Heavy section alloy casting to match material of pump fluid body.
 - Liners.* All pumps are available with interchangeable pipe liners. Standard materials available are Molybdenums alloyed iron, file hard steel and special corrosion resistant liners.
 - Piston Rods.* Various rod materials are available. These are: steel, bronze, stainless steel, file hard steel, and chrome plated steel.
 - Pistons.* Molly's iron and bronze bodies fitted with various types of rings or cups are available.slush service pistons can also be furnished.
 - Valves.* Valves and seats are available as follows: hardened and ground steel wing guided, bronze wing guided, steal or bronze insert type, direct blood valves for use on cast iron or bronze seats. McClatchie and mission can also be furnished.
 - Stuffing Boxes.* All duplex pumps are furnished with replaceable type stuffing boxes which are available in cast iron and bronze.
 - Packing.* Standard packing is a set of lip's type packing rings. Other packings can be furnished for special applications.
 - Stuffing Box Lubrication.* Furnished by use of regulated flow of oil from a force-feed lubricate or mounted on the pump, with a separate oil line to each stuffing box.

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