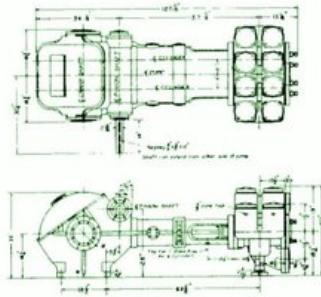


GasO, 1743, Duplex, Piston Pump (Mud Pump)

Specs

Spec	U.S. Standard
Type:	duplex
Minimum Piston Diameter:	4"
Maximum Piston Diameter:	7½"
Stroke length:	10"
Maximum Working Pressure:	66 PSI
Rod/Piston Load:	13100lb
Gallons per Minute:	637.2
Barrels per Day:	21850
Brake Horse Power:	121.0

Fig. 1743



Features/Benefits

GASO DUPLEX 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.

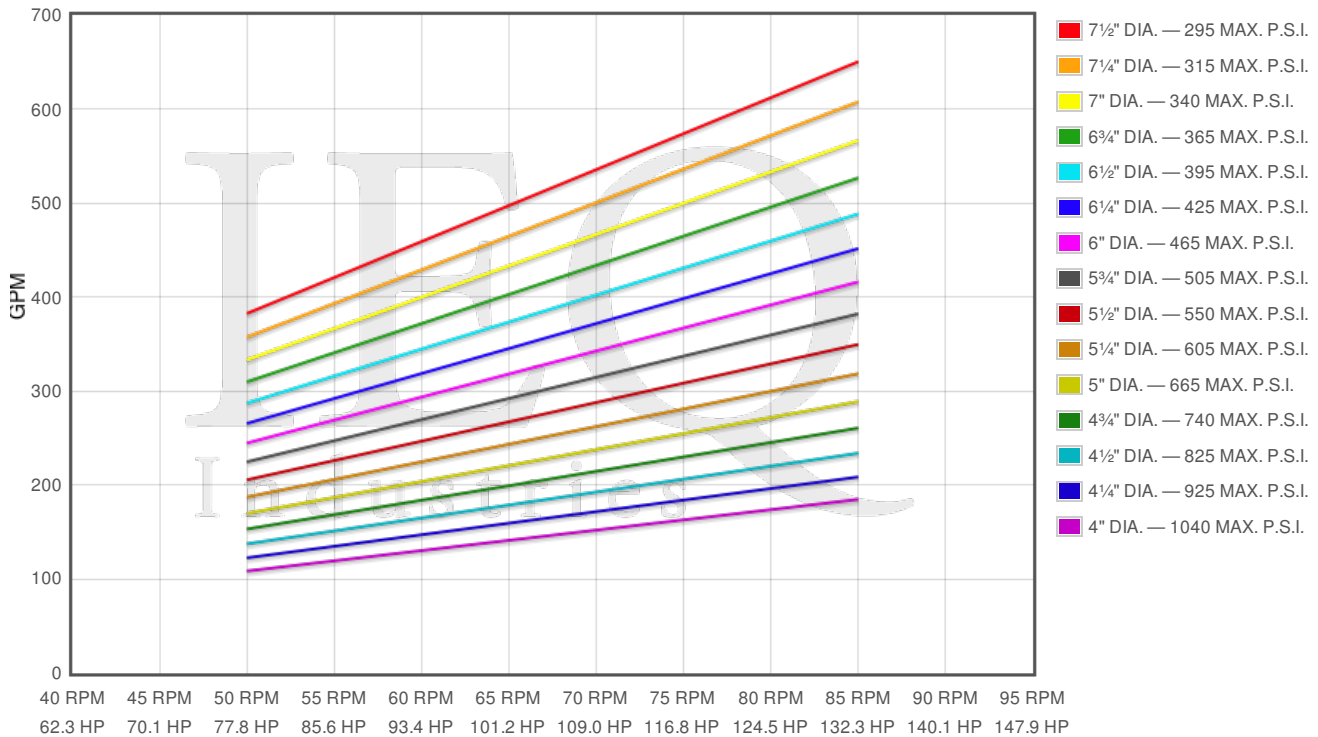
Pistons. Molly-iron and bronze bodies fitted with various types of rings or cups are available.slush service pistons can also be furnished.

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-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.



Pump	English Units					50 RPM		60 RPM		70 RPM		80 RPM		85 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
1743	7.500	44.1786	262.285	7.6500	297	13110	382.5	15740	459.0	18360	535.5	20980	612.0	22290	650.2
	7.000	38.4845	228.479	6.6640	340	11420	333.2	13710	399.8	15990	466.5	18280	533.1	19420	566.4
	6.500	33.1831	197.005	5.7460	395	9850	287.3	11820	344.8	13790	402.2	15760	459.7	16750	488.4
	6.000	28.2743	167.862	4.8960	463	8393	244.8	10070	293.8	11750	342.7	13430	391.7	14270	416.2
	5.500	23.7583	141.051	4.1140	551	7053	205.7	8463	246.8	9874	288.0	11280	329.1	11990	349.7
	5.000	19.6350	116.571	3.4000	667	5829	170.0	6994	204.0	8160	238.0	9326	272.0	9909	289.0
	4.500	15.9043	94.423	2.7540	824	4721	137.7	5665	165.2	6610	192.8	7554	220.3	8026	234.1
	4.000	12.5664	74.606	2.1760	1042	3730	108.8	4476	130.6	5222	152.3	5968	174.1	6341	185.0

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