

Wheatley, 545, Duplex, Piston Pump (Mud Pump)

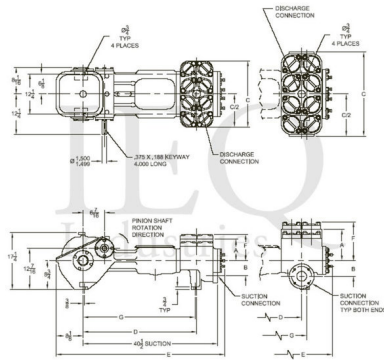
Pumps in this series

[535](#)

[545](#)

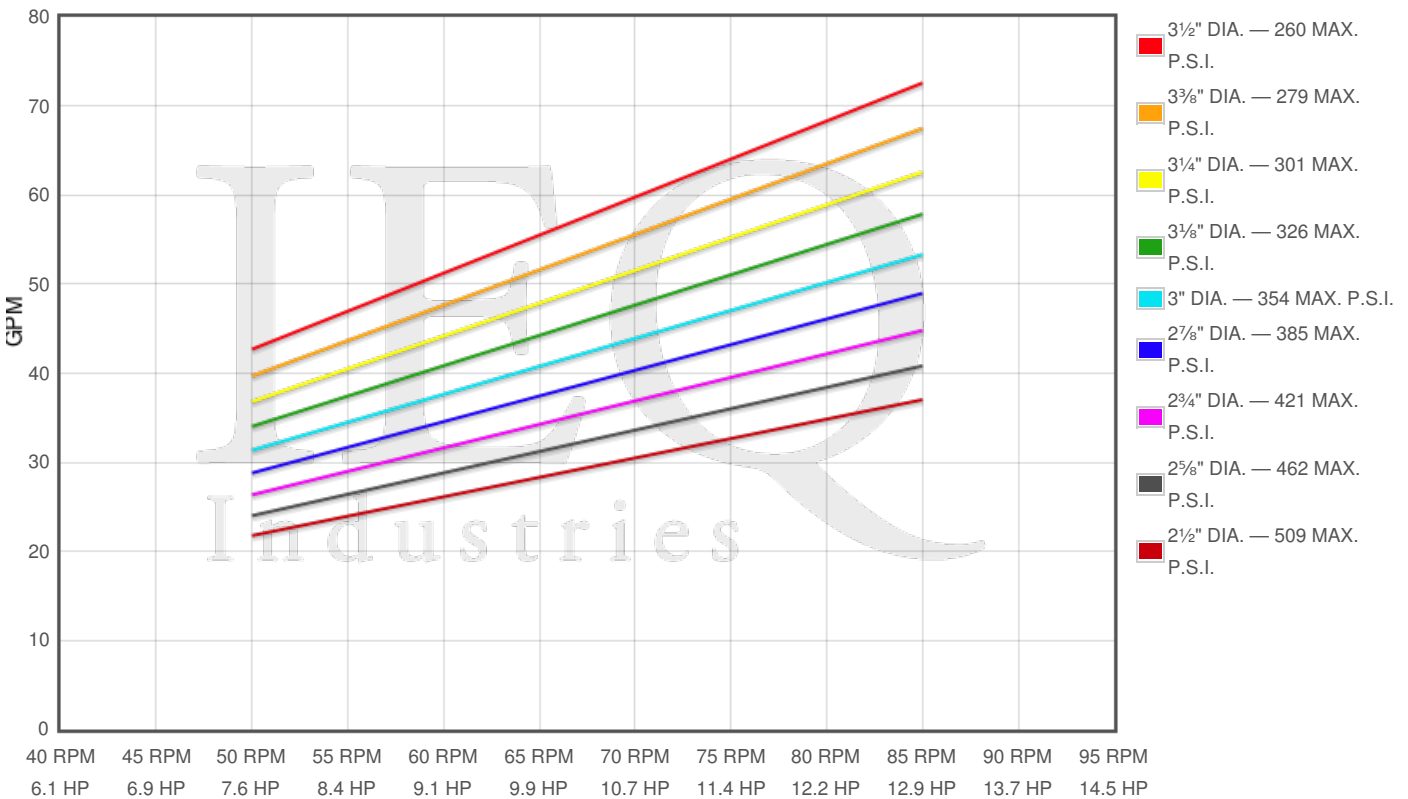
Specs

Spec	U.S. Standard
Type:	duplex
Minimum Piston Diameter:	2½"
Maximum Piston Diameter:	3½"
Stroke length:	5⅝"
Maximum Working Pressure:	509 PSI
Rod/Piston Load:	2500lb
Gallons per Minute:	117.0
Barrels per Day:	4011
Brake Horse Power:	12.4



Pump Curves

Hover over Power Curves to reveal RPM and GPM



Performance Data Table

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
545	3.500	9.6211	29.274	0.8538	260	1464	43	1756	51	2049	60	2342	68	2488	73
	3.375	8.9462	27.220	0.7939	279	1361	40	1633	48	1905	56	2178	64	2314	67
	3.250	8.2958	25.241	0.7362	301	1262	37	1515	44	1767	52	2019	59	2146	63
	3.125	7.6699	23.337	0.6807	326	1167	34	1400	41	1634	48	1867	54	1984	58
	3.000	7.0686	21.507	0.6273	354	1075	31	1290	38	1506	44	1721	50	1828	53
	2.875	6.4918	19.752	0.5761	385	988	29	1185	35	1383	40	1580	46	1679	49
	2.750	5.9396	18.072	0.5271	421	904	26	1084	32	1265	37	1446	42	1536	45
	2.625	5.4119	16.467	0.4803	462	823	24	988	29	1153	34	1317	38	1400	41
	2.500	4.9087	14.936	0.4356	509	747	22	896	26	1046	30	1195	35	1270	37

Features/Benefits

Power End Features

- Cast iron power frame
- Ductile iron crankshaft
- Heavy-duty roller crankshaft bearings
- Bi-metal crankpin bearings
- Ductile iron connecting rods
- Alloy steel crosshead pins
- Bronze bearing crosshead pin bushings
- Internal gear reduction / 4.933:1 Ratio / with:
 - Ductile iron herringbone type main gear
 - Alloy steel pinion shaft with herringbone pinion gear
 - Heavy-duty roller pinion shaft bearings
- Flooded sump, splash distribution lubrication
- Rated rod load is 2500 lbs
- Cast iron crossheads with upper/lower oil grooves

Fluid End Features

- Bolted Valve and Cylinder Head Covers
- Bolted type glands and removable stuffing boxes
- File Hard Steel Piston Rods
- Valve Types
 - Steel wing guided valve & seat-Crude Oil Transfer
 - Steel wing guided w/replaceable insert for slush service
- Piston Types for crude oil transfer:
 - Cast iron piston body, ring type
 - Cast iron, chrome faced, piston rings
- For slush / mud service:
 - Mission slush type piston w/ replaceable rubbers
- General service piston rod packing

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