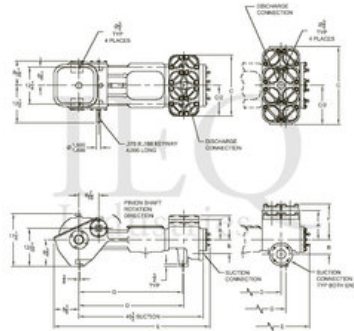


## Wheatley, 545, Duplex, Piston Pump (Mud Pump)

### Specs

Spec	U.S. Standard
Type:	duplex
Minimum Piston Diameter:	2½"
Maximum Piston Diameter:	3½"
Stroke length:	5⅞"
Maximum Working Pressure:	509 PSI
Rod/Piston Load:	2500lb
Gallons per Minute:	117.0
Barrels per Day:	4011
Brake Horse Power:	12.4



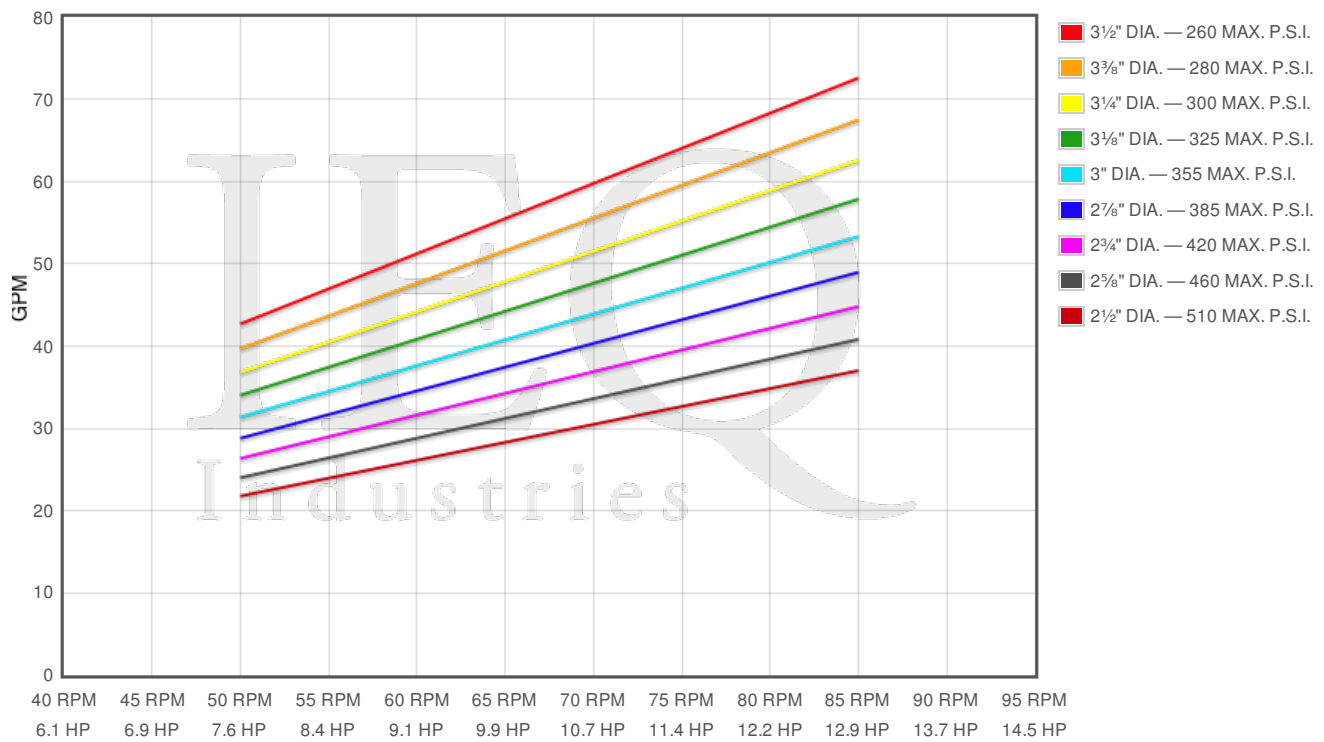
### Features/Benefits

#### 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



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	42.69	1756	51.23	2049	59.77	2342	68.31	2488	72.57
	3.375	8.9462	27.220	0.7939	279	1361	39.7	1633	47.64	1905	55.57	2178	63.51	2314	67.48
	3.250	8.2958	25.241	0.7362	301	1262	36.81	1514	44.17	1767	51.53	2019	58.9	2146	62.58
	3.125	7.6699	23.337	0.6807	326	1167	34.03	1400	40.84	1634	47.65	1867	54.45	1984	57.86
	3.000	7.0686	21.507	0.6273	354	1075	31.36	1290	37.64	1506	43.91	1721	50.18	1828	53.32
	2.875	6.4918	19.752	0.5761	385	987.6	28.81	1185	34.57	1383	40.33	1580	46.09	1679	48.97
	2.750	5.9396	18.072	0.5271	421	903.6	26.36	1084	31.63	1265	36.9	1446	42.17	1536	44.8
	2.625	5.4119	16.467	0.4803	462	823.3	24.01	988.0	28.82	1153	33.62	1317	38.42	1400	40.82
	2.500	4.9087	14.936	0.4356	509	746.8	21.78	896.1	26.14	1045	30.49	1195	34.85	1270	37.03

**Disclaimer I**

This website is intended as a reference tool only. It has been constructed from published data that is based on manufacturer's sales and engineering documents that are either current, historical and obsolete. Much of the machinery data contained herein has been re-rated through the years with different engineering criteria which may be in conflict with legacy data. Much of the content published here is calculated online with the use of dynamic data using formulas and extrapolations considered to be sound engineering formulas and are correct to the degree that the data used is accurate. We have done our best to be as precise as possible in this posting but do not represent any of the calculations or performance data to be entirely accurate. The data published here is intended to be general information rather than actual and to serve as a reference rather than a technical absolute. The user of such data should confirm such information independently.

**Copyright and Disclaimers**

WheatleyGas.com is your resource for Gaso pumps, Gaso pump parts and a supplier of ORIGINAL GASO PARTS and equipment, new used and remanufactured Wheatley, GASO and Wheatley/GASO plunger and piston pumps and pump parts and is not affiliated with Wheatley/GASO Inc. or its parent company, National Oilwell Varco,