

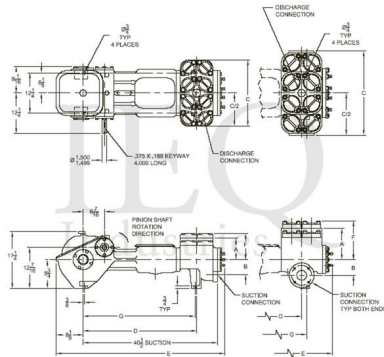
## Wheatley, 535, Duplex, Piston Pump (Mud Pump)

### Pumps in this series

- [535](#)
- [545](#)
- 12 horsepower 5.125" stroke continuous duty double acting duplex pump
- Rated at pump speeds up to 85 RPM
- Maximum discharge pressures up to 796 psi
- Equipped with cast iron fluid ends
- Equipped with internal gear reduction unit

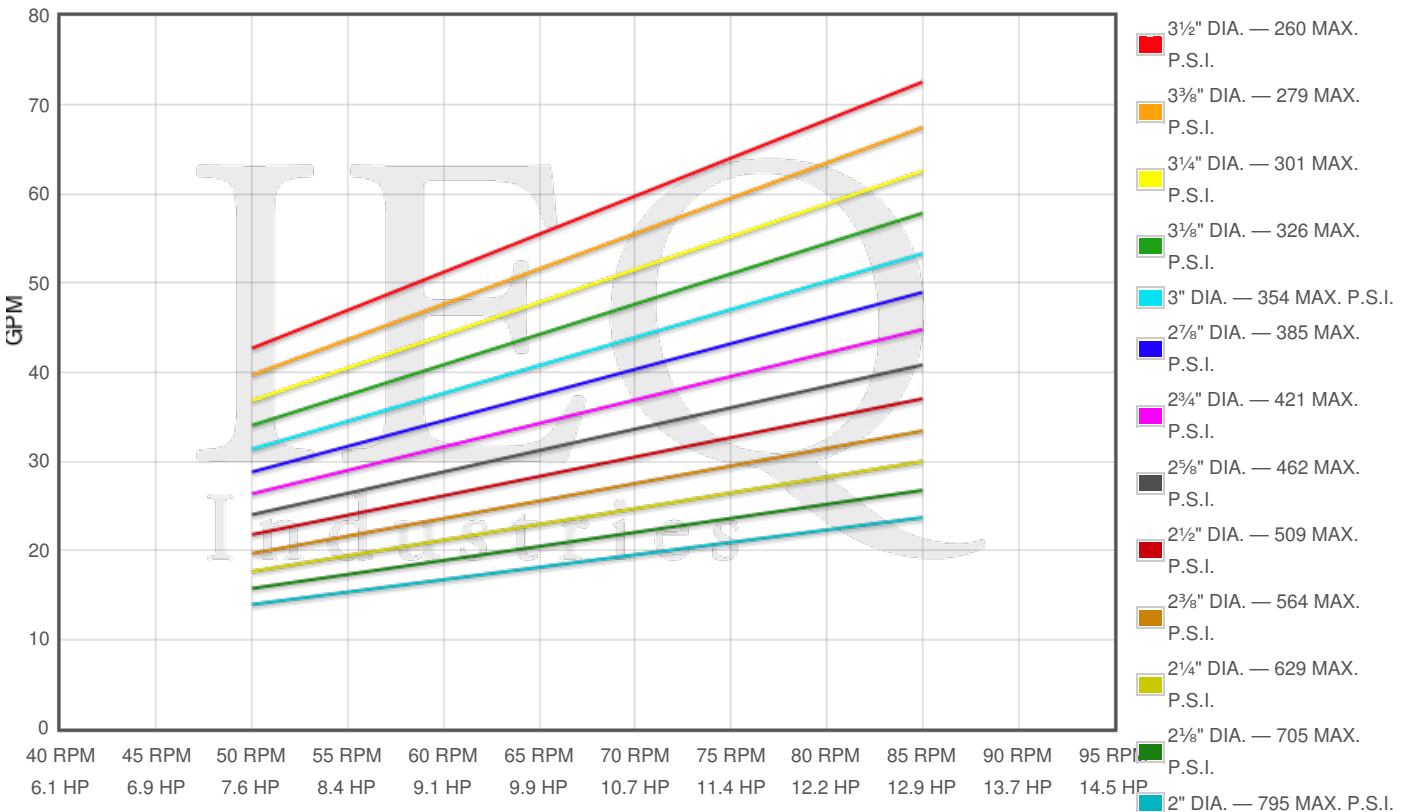
### Specs

| Spec                      | U.S. Standard |
|---------------------------|---------------|
| Type:                     | duplex        |
| Minimum Piston Diameter:  | 2"            |
| Maximum Piston Diameter:  | 3½"           |
| Stroke length:            | 5½"           |
| Maximum Working Pressure: | 795 PSI       |
| Rod/Piston Load:          | 2500lb        |
| Gallons per Minute:       | 69.6          |
| Barrels per Day:          | 2386          |
| 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 |
| 535  | 3.500            | 9.6211               | 29.274      | 0.8538      | 260            | 1464   | 43  | 1756   | 51  | 2049   | 60  | 2342   | 68  | 2488   | 73  |
|      | 3.250            | 8.2958               | 25.241      | 0.7362      | 301            | 1262   | 37  | 1515   | 44  | 1767   | 52  | 2019   | 59  | 2146   | 63  |
|      | 3.000            | 7.0686               | 21.507      | 0.6273      | 354            | 1075   | 31  | 1290   | 38  | 1506   | 44  | 1721   | 50  | 1828   | 53  |
|      | 2.750            | 5.9396               | 18.072      | 0.5271      | 421            | 904    | 26  | 1084   | 32  | 1265   | 37  | 1446   | 42  | 1536   | 45  |
|      | 2.500            | 4.9087               | 14.936      | 0.4356      | 509            | 747    | 22  | 896    | 26  | 1046   | 30  | 1195   | 35  | 1270   | 37  |
|      | 2.250            | 3.9761               | 12.098      | 0.3529      | 629            | 605    | 18  | 726    | 21  | 847    | 25  | 968    | 28  | 1028   | 30  |
|      | 2.000            | 3.1416               | 9.559       | 0.2788      | 795            | 478    | 14  | 574    | 17  | 669    | 20  | 765    | 22  | 813    | 24  |

### 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

#### Disclaimer I

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