

Wheatley, HP165-AL (163Q-4L), Quintuplex, Plunger Pump

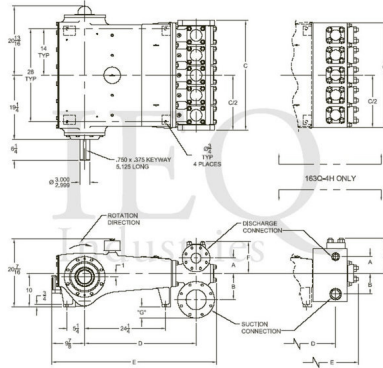
Pumps in this series

- [HP165-AM \(163Q-4M\)](#)
- [HP165-AL \(163Q-4L\)](#)
- [HP165-MS \(163Q-4H\)](#)

- 163 horsepower 4 1/2" stroke horizontal quintuplex single acting plunger pump
- Available in four end material
- Pump speeds up to 390 RPM
- Multiple accessory gear reduction unit ratios

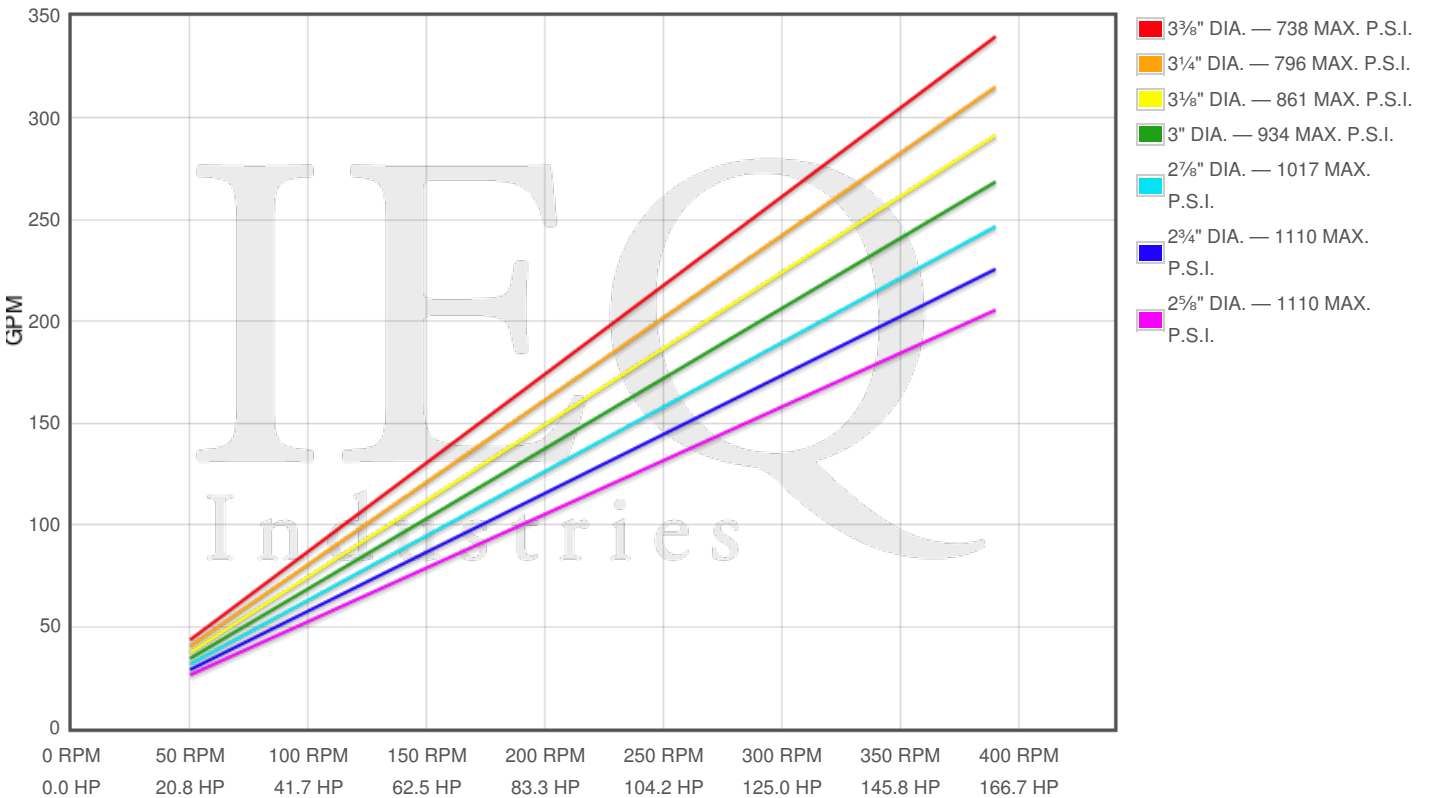
Specs

| Spec | U.S. Standard |
|---------------------------|---------------------------------|
| Type: | quintuplex |
| Minimum Plunger Diameter: | 2 ⁵ / ₈ " |
| Maximum Plunger Diameter: | 3 ³ / ₈ " |
| Stroke length: | 4 ¹ / ₂ " |
| Maximum Working Pressure: | 1,110 PSI |
| Rod/Piston Load: | 6600lb |
| Gallons per Minute: | 339.8 |
| Barrels per Day: | 11650 |
| Brake Horse Power: | 162.5 |



Pump Curves

Hover over Power Curves to reveal RPM and GPM



Performance Data Table

| Pump | English Units | | | | | 50 RPM | | 150 RPM | | 250 RPM | | 350 RPM | | 390 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 |
| HP165-AL 163Q-4L | 3.375 | 8.9462 | 29.876 | 0.8714 | 738 | 1494 | 44 | 4481 | 131 | 7469 | 218 | 10457 | 305 | 11652 | 340 |
| | 3.250 | 8.2958 | 27.704 | 0.8080 | 796 | 1385 | 40 | 4156 | 121 | 6926 | 202 | 9696 | 283 | 10805 | 315 |
| | 3.125 | 7.6699 | 25.614 | 0.7471 | 861 | 1281 | 37 | 3842 | 112 | 6403 | 187 | 8965 | 261 | 9989 | 291 |
| | 3.000 | 7.0686 | 23.606 | 0.6885 | 934 | 1180 | 34 | 3541 | 103 | 5901 | 172 | 8262 | 241 | 9206 | 269 |
| | 2.875 | 6.4918 | 21.680 | 0.6323 | 1017 | 1084 | 32 | 3252 | 95 | 5420 | 158 | 7588 | 221 | 8455 | 247 |
| | 2.750 | 5.9396 | 19.835 | 0.5785 | 1110 | 992 | 29 | 2975 | 87 | 4959 | 145 | 6942 | 202 | 7736 | 226 |
| | 2.625 | 5.4119 | 18.073 | 0.5271 | 1110 | 904 | 26 | 2711 | 79 | 4518 | 132 | 6326 | 184 | 7049 | 206 |

Features/Benefits

- Cast iron power frame

- Ductile Iron Crankshaft
- Cast iron crossheads with upper/lower oil grooves
- Heavy-duty, tapered roller crankshaft bearings
- Precision type, aluminum alloy crankpin bearings
- Bronze bearing crosshead pin bushings
- Flooded sump, splash distribution lubrication
- Rated rod load is 6600 lbs.
- Plungers - Solid Ceramic, or Tungsten coated
- Spherical suction and discharge valves
- Valve Seat & Valve Body: Nitronic 50
- Spring: Inconel
- Cage: 316L Stainless Steel
- Severe duty valves with inserts available

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