

## PRODUCT DESCRIPTION

The BPF 3500 is a robust 12" centers well service power end, proven to withstand and excel in the harshest pumping conditions. The BPF 3500 is designed to handle continuous duty high rod load applications through an enhanced power frame design, increased gearing and bearing capabilities, and optimized lubrication distribution to all critical components.

## PRODUCT FEATURES

- New, innovative power frame design includes:
  - Robust nose plate with optimized weld joint design to eliminate nose plate cracks
  - Single piece outer plates to eliminate weld cracks at main bearing races.
  - Thicker, optimized inner plates to increase rigidity and eliminate stress risers at max rod load.
  - Tubular cross structural members to limit torsional deflection.

**The result is an incredibly durable power frame that resists flexural fatigue failures that plague typical competitor power ends.**
- Pinion and crankshaft roller bearings upgraded for larger rod load and increased durability.
- Novel, increased capacity gearing to support higher rod load and increased run time between overhauls.
- All bearings and wear surfaces are pressure-lubricated for reliable cooling and extended service life of components.
- Thrust rings and a full floating crankshaft design reduces main bearing thrust loading and tightly control crankshaft endplay.
- Connecting rods and crossheads utilize improved journal bearings with enhanced mechanical properties to support higher rod loads and horsepower.
- Plug and play mounting that allows for fitting to multiple OEM footprints.

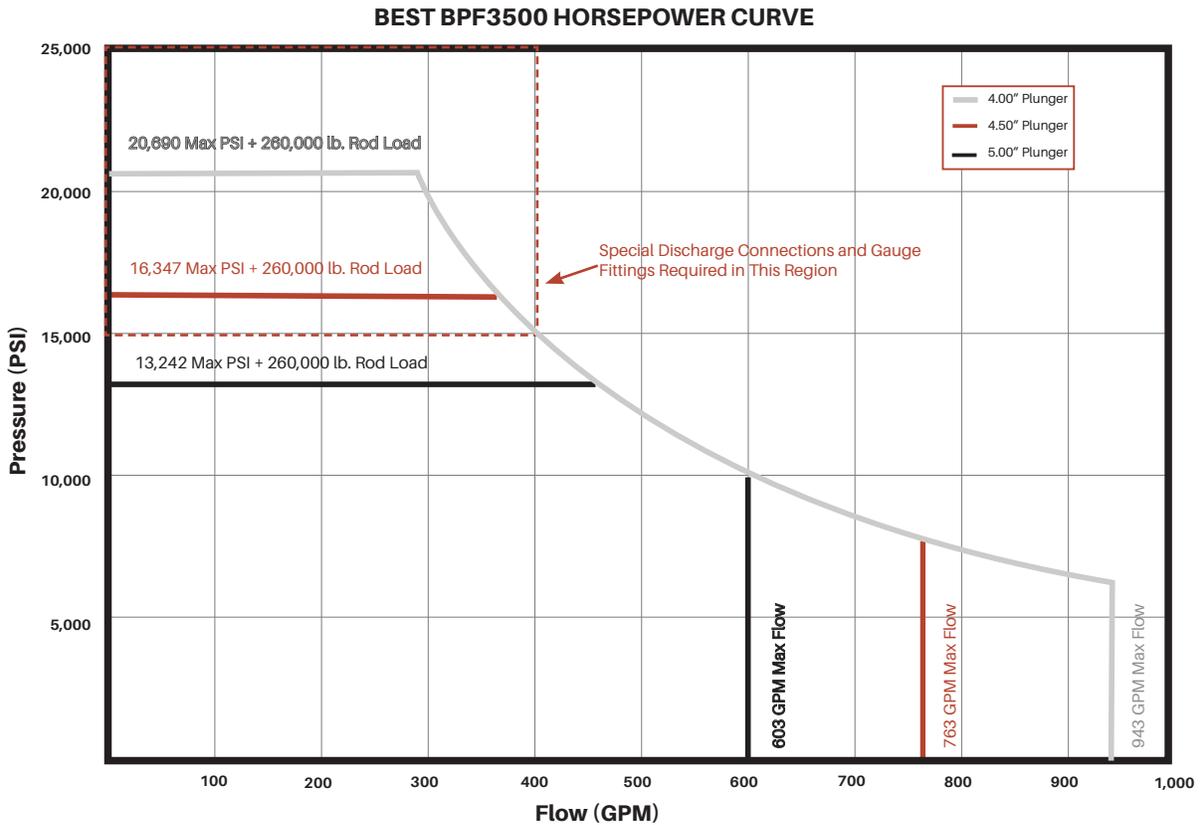
# BPF 3500 POWER END



## SPECIFICATIONS

- Max Brake HP: **3500**
- Max Input RPM: **1950**
- Number of Plungers: **5**
- Stroke Length (in.): **8**
- Maximum Rod Load (lbf): **260,000**
- Gear Ratio: **6.33:1**
- Input Shaft Diameter (in.): **4.250**
- Approximate Weight (lbs.): **20,355**

## HORSEPOWER CURVE



|                      |                             | Plunger Diameter | Inches | 4.0    | 4.5    | 5.0    | Rod Load | Input Power |
|----------------------|-----------------------------|------------------|--------|--------|--------|--------|----------|-------------|
| <b>Flow Rate RPM</b> | Displacement per Revolution | Gallons          |        | 1.96   | 2.48   | 3.06   | LBF      | BHP         |
|                      | 100                         | BPM              |        | 4.67   | 5.90   | 7.29   | 260,000  | 2,364       |
|                      |                             | PSI              |        | 20,690 | 16,347 | 13,242 |          |             |
|                      | 150                         | BPM              |        | 7.00   | 8.86   | 10.93  | 256,600  | 3,500       |
|                      |                             | PSI              |        | 20,421 | 16,135 | 13,070 |          |             |
|                      | 250                         | BPM              |        | 11.67  | 14.76  | 18.21  | 154,000  | 3,500       |
|                      |                             | PSI              |        | 12,252 | 9,681  | 7,842  |          |             |
|                      | 308                         | BPM              |        | 14.37  | 18.19  | 22.44  | 125,000  | 3,500       |
|                      |                             | PSI              |        | 9,946  | 7,858  | 6,365  |          |             |

