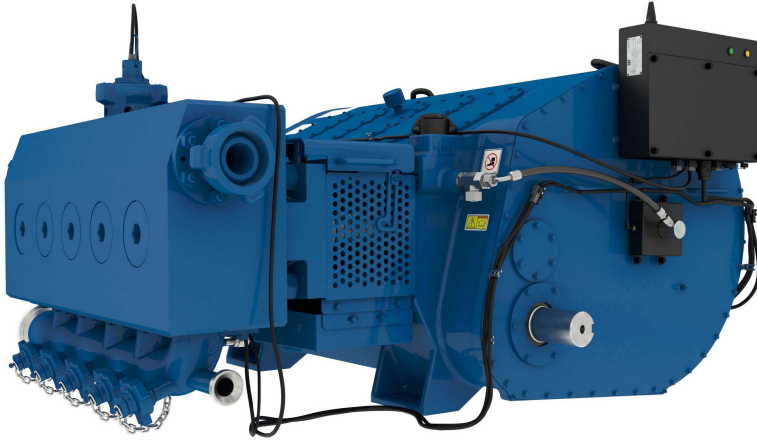


SPM™ WS335 Pump

Built for maximum dependability and minimal maintenance

SPM™ Oil & Gas

A Caterpillar Company



Monoframe design brings maximum reliability

With innovative single-piece cast frame construction and ruggedly engineered components, the SPM™ WS335 pump is built for maximum reliability, safety and structural integrity. Its unique monoframe design eliminates welds, dramatically reducing risk of failure and nonproductive time compared to conventional welded designs.

Redesigned core components

An optimized lubrication system features an integrated relief valve and on-board pressure regulation and filtration—for consistent oil pressure across critical components. A redesigned gear set, including larger pinion bearings, partial-groove journal bearings and an enhanced bull and pinion gear train, feature state-of-the-art design and manufacturing for longer-lasting performance.

Optimized for efficient stimulation operations

Its smaller footprint helps meet ESG requirements while delivering upgraded pumping performance in a wide range of applications. Additionally, ergonomically designed access points simplify inspection and maintenance in the field.

Specifications

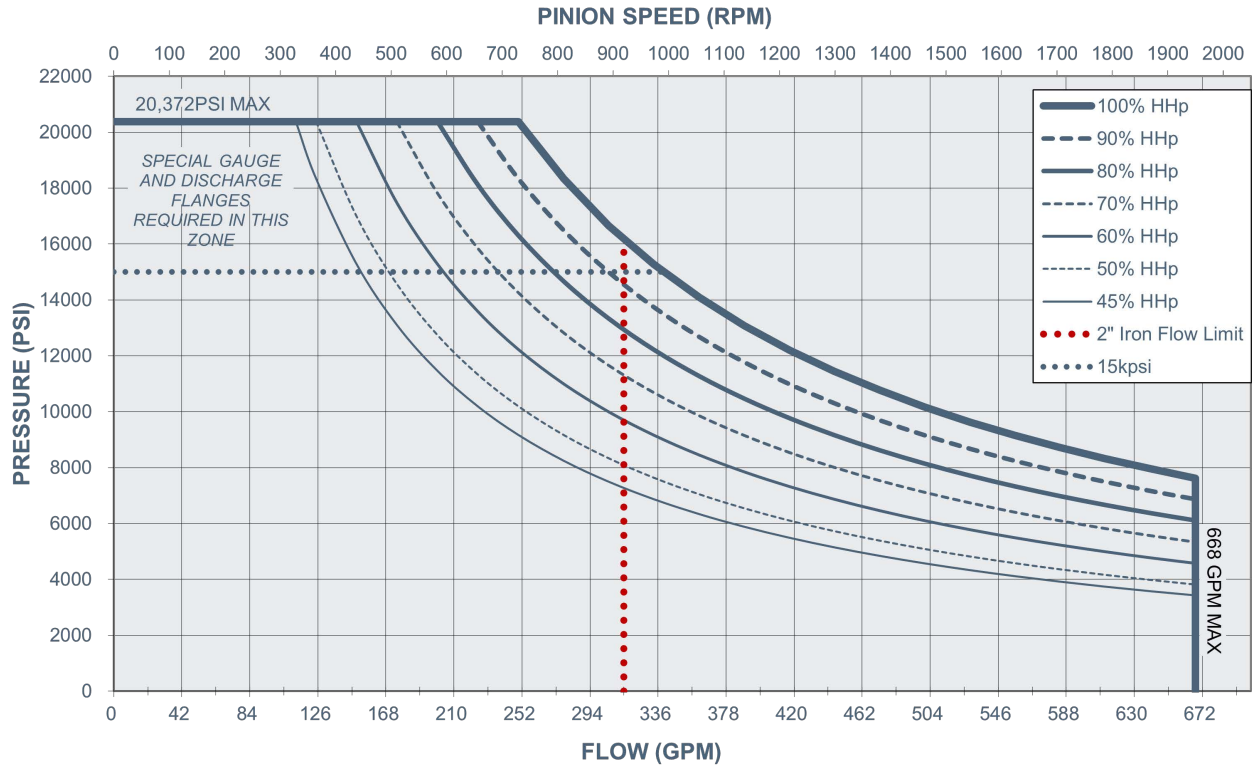
| | |
|---------------------|----------------|
| Max Input | 3,300 bhp |
| Max Speed | 330 rpm |
| Gear Ratio..... | 6.353:1 |
| Plungers..... | Five |
| Bore Centers | 10" |
| Stroke Length | 8" |
| Rod Load | 256,000 lbf |
| Frame Type..... | One-piece cast |
| Pump Weight | 18,974 lbs |

Features and Benefits

- Single-piece cast frame improves structural integrity and mitigates common frame failure modes
- Two-piece stay rod design lowers cyclic loading and fatigue stress
- Robust gear system and crankshaft increase run life and reliability
- Optimized on-board oil system avoids lubrication-induced failures
- Ergonomic design and improved access points improve serviceability
- SPM™ Everbore™ hardened steel packing bore eliminates the threat of washboarding
- Standardized fluid end components maximize parts interchangeability and operational flexibility
- Optional on-board Pump Electronic Monitoring System (PEMS) helps minimize downtime, preserve equipment and reduce risk of catastrophic failures

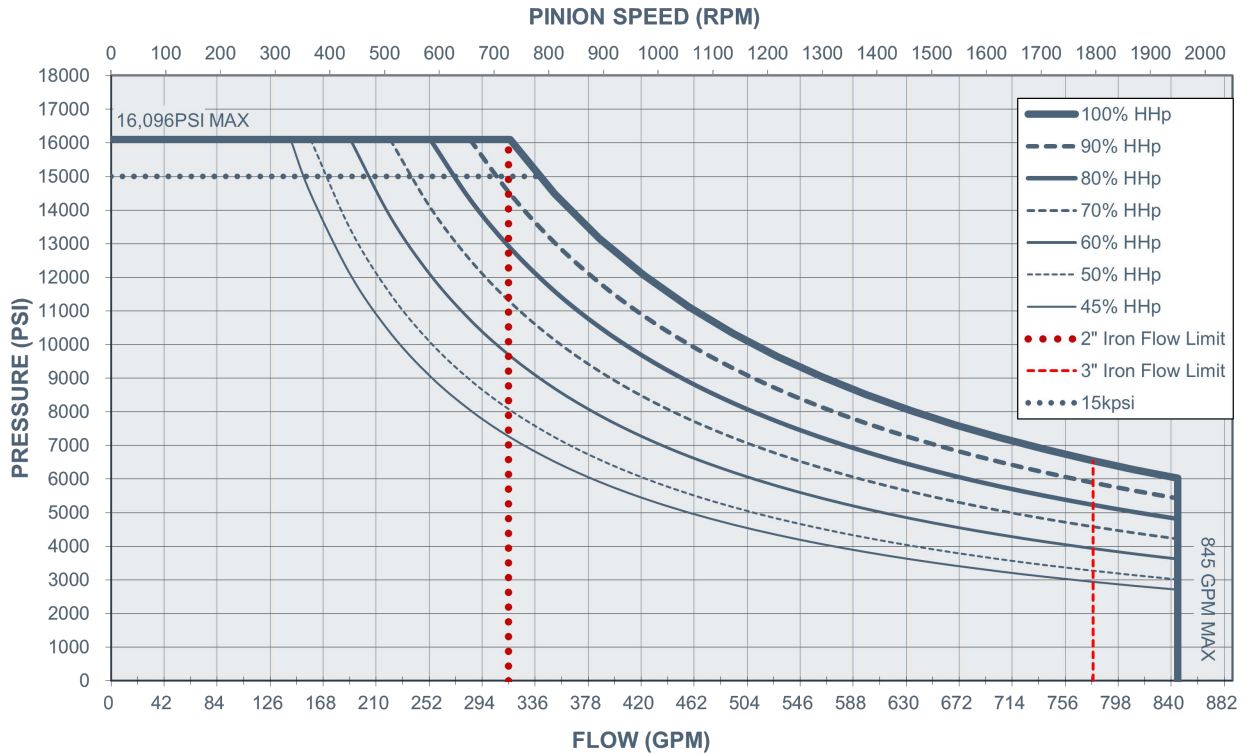
Pump Curve 4 inch Plunger

**SPM™
WS335 APEX - 4.00" Plunger
Horsepower Curve**



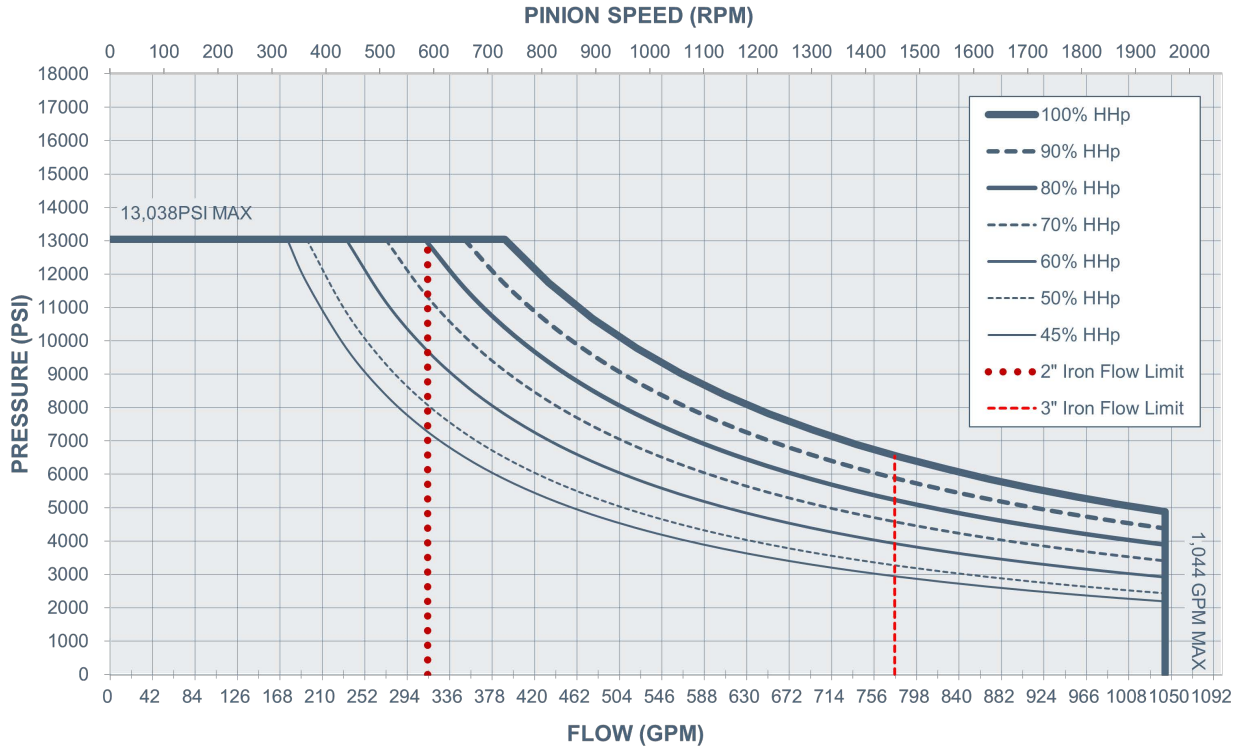
Pump Curve 4.5 inch Plunger

**SPM™
WS335 APEX - 4.50" Plunger
Horsepower Curve**



Pump Curve 5 inch Plunger

SPM™
WS335 APEX - 5.00" Plunger
Horsepower Curve



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