

Centrilift 538FLEXPump15 pump

Improve ESP performance in dynamic well conditions

Applications

- Low-flow regimes
- Wells with extended flowrate range
- Unconventional oil and gas fields
- Conventional oil and gas fields
- Horizontal or deviated wells
- Viscous oil wells

Features and Benefits

- Enhances reliability by reducing pump plugging and improving solids handling
- Enhances gas handling ability
- Offers wider operating range in extreme low-flow conditions
- Delivers higher pump efficiency, lowering OPEX and reducing power costs
- Provides wider stage vane openings
- Offers more flexibility through the well life with extended range design

Expanding operating range

The revolutionary **Centrilift FLEXPump™ series multistage centrifugal pumps** have the industry's highest efficiency and widest operating range, providing operators with the operational flexibility required in dynamic well conditions. The advanced-engineering hydraulic designs of the pump stages maximize production while extending electrical submersible pumping (ESP) system run life.

Improving pump design

The 538FLEXPump15 pump is a new model in the FLEXPump portfolio, and it is the smallest mixed-flow pump in the 538 series. It delivers unmatched performance for flow rates from 2,250 B/D to as low as 200 B/D. This hydraulically proficient mixed-flow design lowers the horsepower requirement over the entire flow range, producing higher efficiency than pumps from competitors.

The optimized mixed-flow path with the wide stage vane opening enables the operators to produce low flowrate wells with high challenging sand and gas content where the radial flow pump is less efficient and less durable.

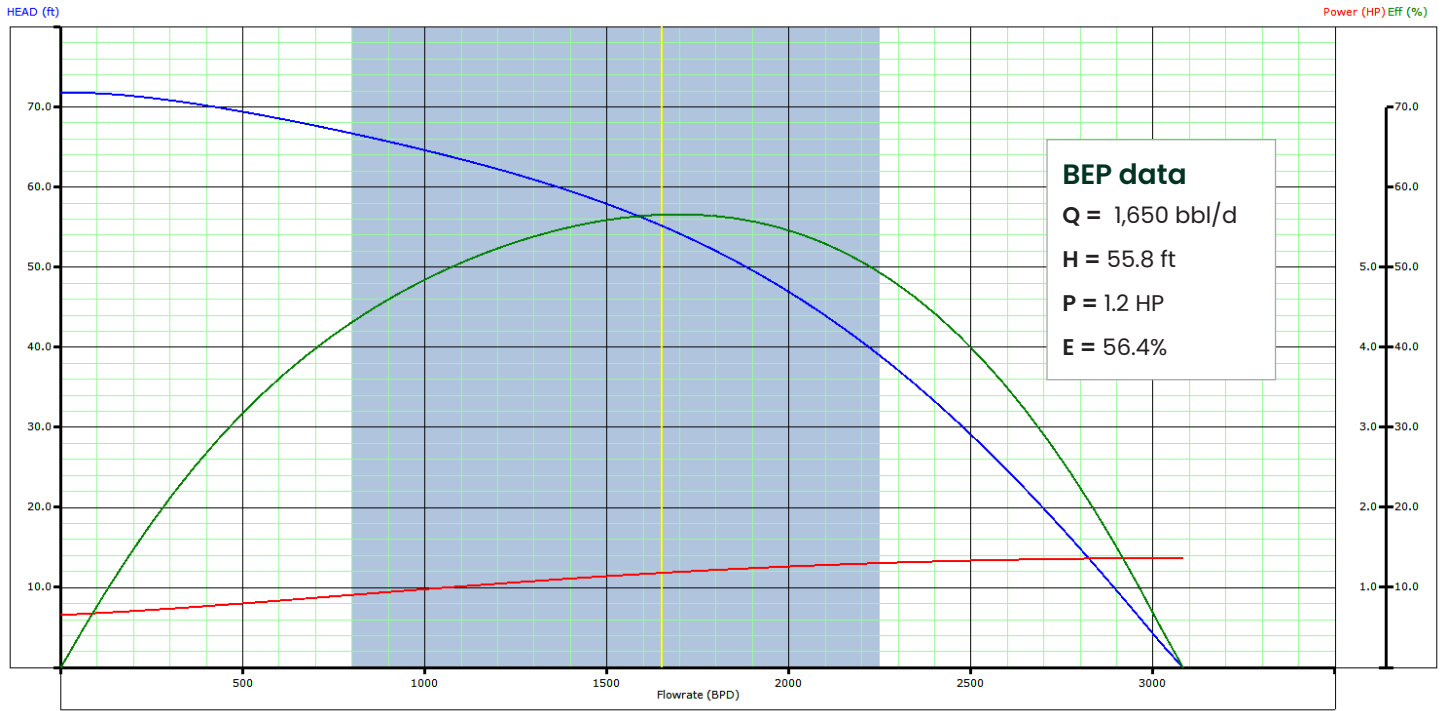
Contact your Baker Hughes representative today to learn how the Centrilift 538FLEXPump15 pump can increase efficiency and reduce OPEX in your wells with low-flow regimes.

Specifications

Series	538
OD, in. (mm)	5.38 (136.65)
Standard stage alloy	Ni-Resist™
Stage geometry	Mixed-flow
Flow range, bbl/d at 60 Hz (m³/d at 50 Hz)	Standard: 800-2,250 (106-298)
Head per stage at BEP, ft at 60 Hz (m at 50 Hz)	SSD: 200-2,250 (27-298) 55.8 (11.8)
Power per stage at BEP, bhp (kW at 50 Hz)	1.2 (0.5)
Efficiency at best efficiency point (BEP), percent	56.4%
Burst pressure, psi (kPa)	5,627 (38,797)
Standard housing alloys	Carbon steel and 9Cr-1Mo
Standard shaft alloys	Inconel®
Shaft diameter, in. (mm)	0.875 (22.225)
Abrasion-resistant options	SHD, SSD
Radial- and axial-bearing material	Tungsten carbide

FLEXPump15 pump curve

1 stage at 60Hz, 3,500 RPM, specific gravity = 1.0



1 stage at 50Hz, 2,970 RPM, specific gravity = 1.0

