



Meet well design and lifting requirements

The SPECTRUM centrifugal pump series are multistage pumps. Each stage consists of a rotating impeller and stationary diffuser and the number of stages required is determined by the lift requirements (Total Dynamic Head) of the application. Pumps are selected to deliver the desired flow rate from the largest diameter pump that can be accommodated by the casing ID.

SPECTRUM centrifugal pumps can be of either radial or mixed flow stage design and are available in both floater and compression configurations for thrust handling.

Harsh environment options

For wells containing abrasives, radially stabilized options are available, with hardened tungsten carbide bearings at the head and base of the pump. For especially harsh applications, tungsten carbide bushings can be placed in each stage throughout the pump to enable longer ESP run life.

For hot and harsh environments, resistance to exterior corrosion is provided by Monel flame spray coatings or a ferritic steel construction.

SPECTRUM ESP pumps are available in a range of diameters (series) for a wide range of flow rates.

APPLICATIONS

- Conventional oil wells
- Unconventional oil wells
- Mature fields
- Gassy wells
- Surface pumping systems
- EOR applications

BENEFITS

- Extended operating range
- Increased corrosion resistance
- Increased uptime
- Reduced gas locking & ESP cycling
- Longer ESP run life

FEATURES

- Corrosion resistant K-Monel shafts
- High strength Inconel shafts
- Ni-resist & Super Duplex stage materials available
- Standard compression & radially stabilized versions available
- 1:1 abrasion resistant
- Monel flame spray coating or ferritic steel construction options available
- Large capacity pumps available (WQ 1100 Series)

SERIES

400
513
538

562
675
862

1000
1100

SPECIFICATIONS

Pump series	OD, in (mm)	Min casing, in (mm)	Flow range@ 60Hz BPD	Flow range@ 50Hz m ³ /d
338/WA	3.38 (83.2)	4.50 (114.3)	200 - 2,000	27 - 265
400/WD	4.00 (101.6)	5.50 (139.7)	90 - 7,500	12 - 994
513/WG	5.13 (130.3)	6.63 (168.3)	800 - 12,000	106 - 1,590
538/WE	5.38 (136.7)	7.00 (177.8)	800 - 14,000	106 - 1,855
562/WH	5.62 (143.0)	7.00 (177.8)	10,000 - 20,000	1,325 - 2,650
675/WJ	6.75 (171.5)	8.63 (219.9)	5,000 - 19,000	662 - 2517
862/WM	8.62 (219.2)	10.75 (273.1)	12,500 - 32,000	1,656 - 4,240
1000/WP	10.0 (254)	13.375 (339.7)	24,000 - 42,000	3,180 - 5,565
1100/WQ	11.0	13.375 (339.7)	27,500 - 80,000	3,643 - 10,566