

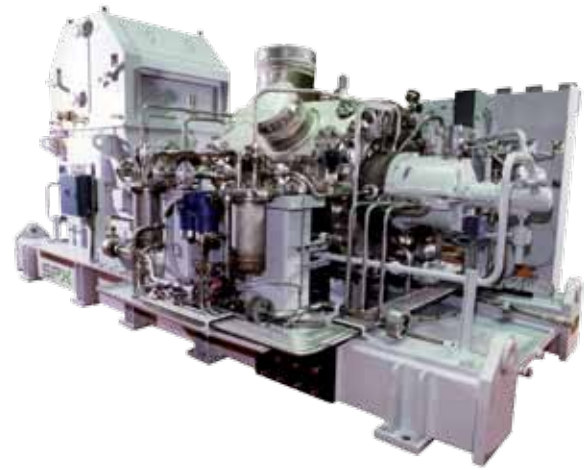
CUP-FT/FK

MULTI-STAGE, THROUGHBOLT, RADIALY SPLIT PUMP

PUMP OVERVIEW

The ClydeUnion Pumps CUP-FT/FK (2 pole) is a world class product range designed for boiler feed applications, meeting the demands of modern thermal, combined cycle and solar power plants. Our extensive engineering, manufacturing and operational experience has been incorporated in the design of the 2 pole diffuser pump CUP-FT/FK. A radially split case diffuser type pump with options for throughbolt (FT) or barrel case (FK), designed for low, intermediate and high pressure and temperature applications.

ClydeUnion Pumps has been designing and manufacturing multi-stage throughbolt and boiler feed pumps for nearly 100 years.



TYPICAL APPLICATIONS

- Boiler feed
- Reverse osmosis
- Mine dewatering
- Descaling

TECHNICAL DATA

Capacity: up to 1,100 m³/hr / 4,840 USgpm

Delivery head: up to 2,500 m / 8,200 ft

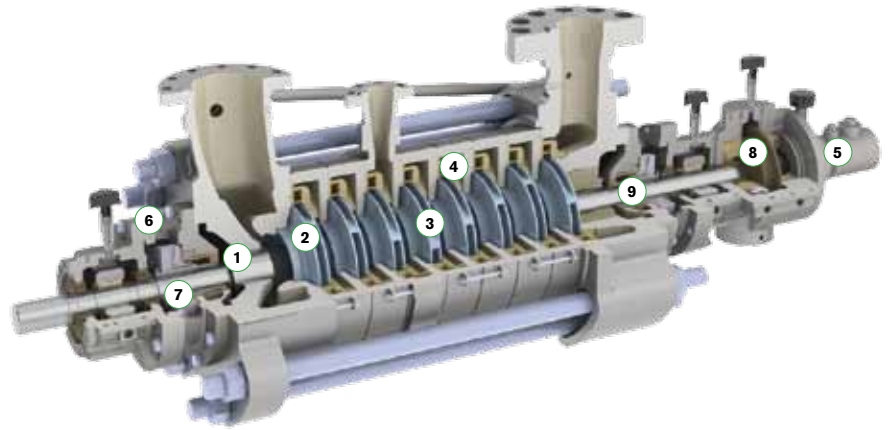
Temperature: up to 180 °C / 350 °F

Speeds: up to 3,600 rpm

Flange drilling: ANSI or BS

FEATURES + BENEFITS

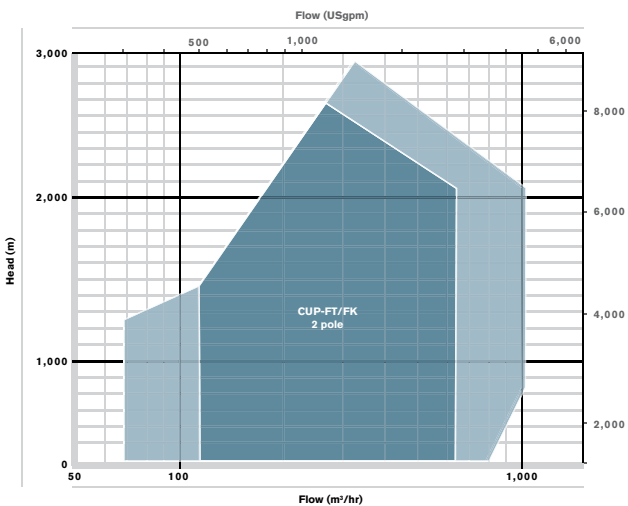
- 1 Mechanically stiff shaft**
Large shaft-to-impeller diameter proportions. Optimal span between bearings. High critical speeds and low static deflection
- 2 Optimum NPSH performance**
Optimised by Computational Fluid Dynamics. First stage impeller with improved suction performance. Single and double entry available
- 3 Optimised hydraulic performance**
Proven range. Precision cast components, repeatable performance
- 4 Replaceable wearing parts**
Available for ease of maintenance. Casing wear ring material and geometry is selected for optimum efficiency and rotor stiffness
- 5 Oil pump**
Shaft driven lubrication oil pump when required
- 6 Centreline mounting**
Reduces the effect of thermal growth at elevated process temperatures. Maintains pump to driver alignment at all operating temperatures. High strength fabricated steel baseplate accommodates all static and dynamic loads and reduces noise transmission. Capable of supporting pumpsets grout free
- 7 360° bearing support**
Optimum rotor alignment and support. Reduced vibration levels. Maximum component life



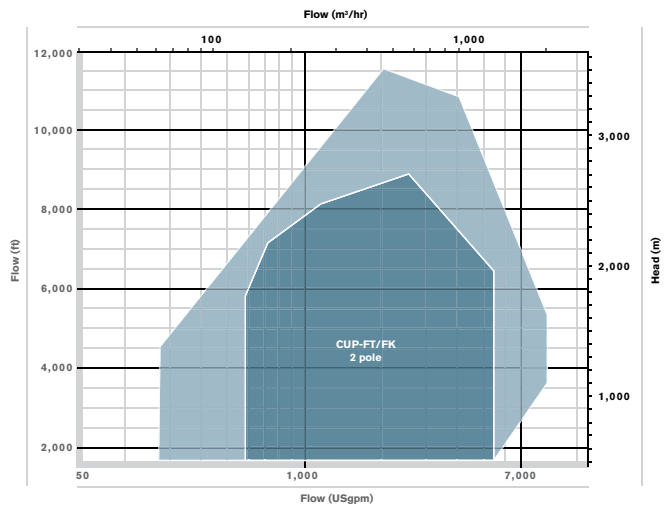
- 8 Hydrodynamic bearings (Journal & tilting pad thrust)**
Capable of higher load operation. Generously rated hydrodynamic double-acting thrust. Force-fed or self-contained options available. Optimum rotor stability. Infinite life dependant on oil cleanliness. A balance disc option is available that does not require a hydrodynamic thrust bearing
- 9 Mechanical seal**
Cartridge style, no seal setting. Reduced capital cost. Long seal lives achievable. Plan 23 or cooled seat options available

RANGE COVERAGE CHARTS

50HZ RANGE CHART



60HZ RANGE CHART



These charts cover the standard pump range. Other engineering designs exist for extreme applications

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For more information about our worldwide locations, approvals, certifications, and local representatives, please visit www.spx.com.

SPX Corporation reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing.

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