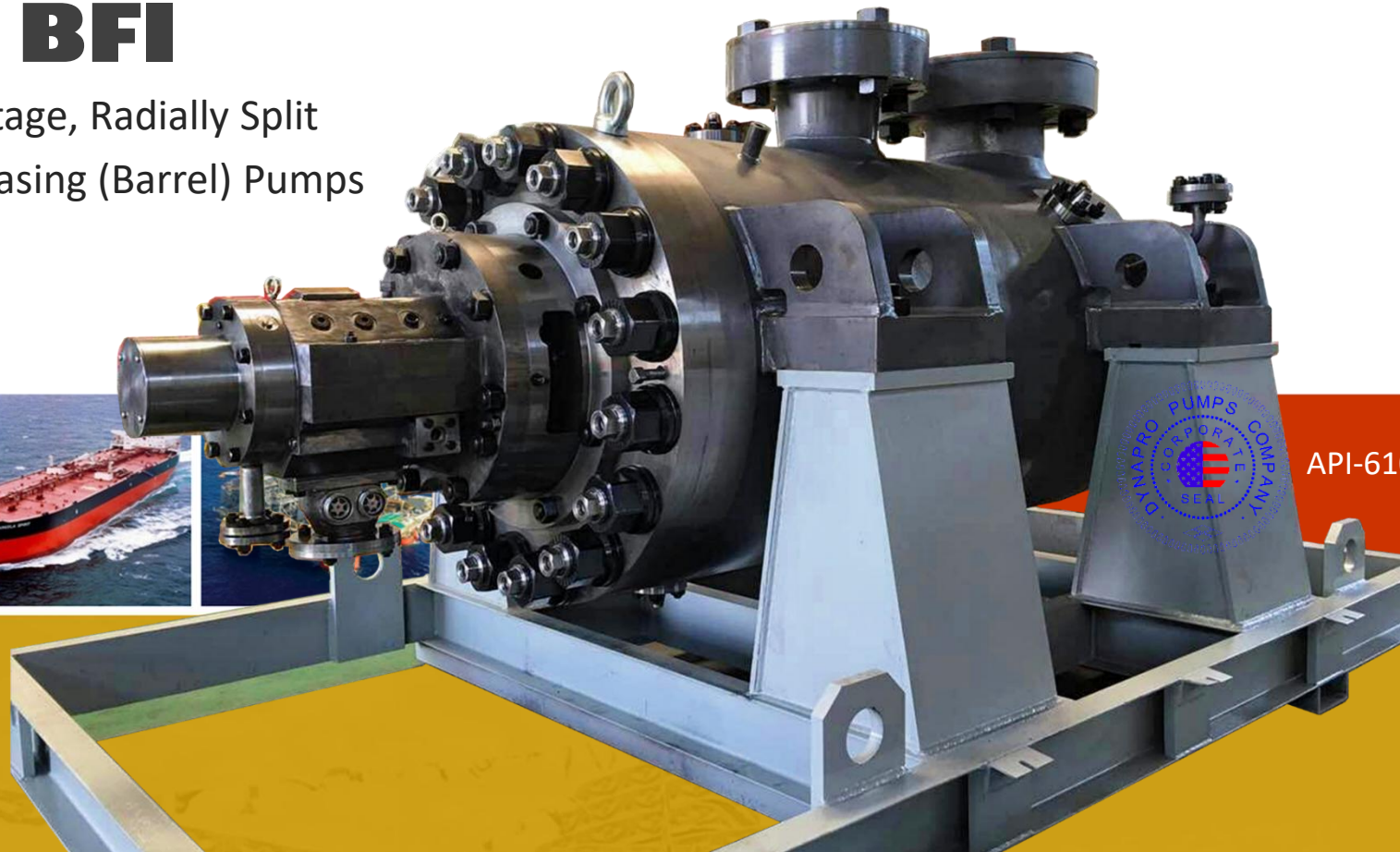


BFI

Multistage, Radially Split
Double Casing (Barrel) Pumps



API-610 BB5, 12th ED.

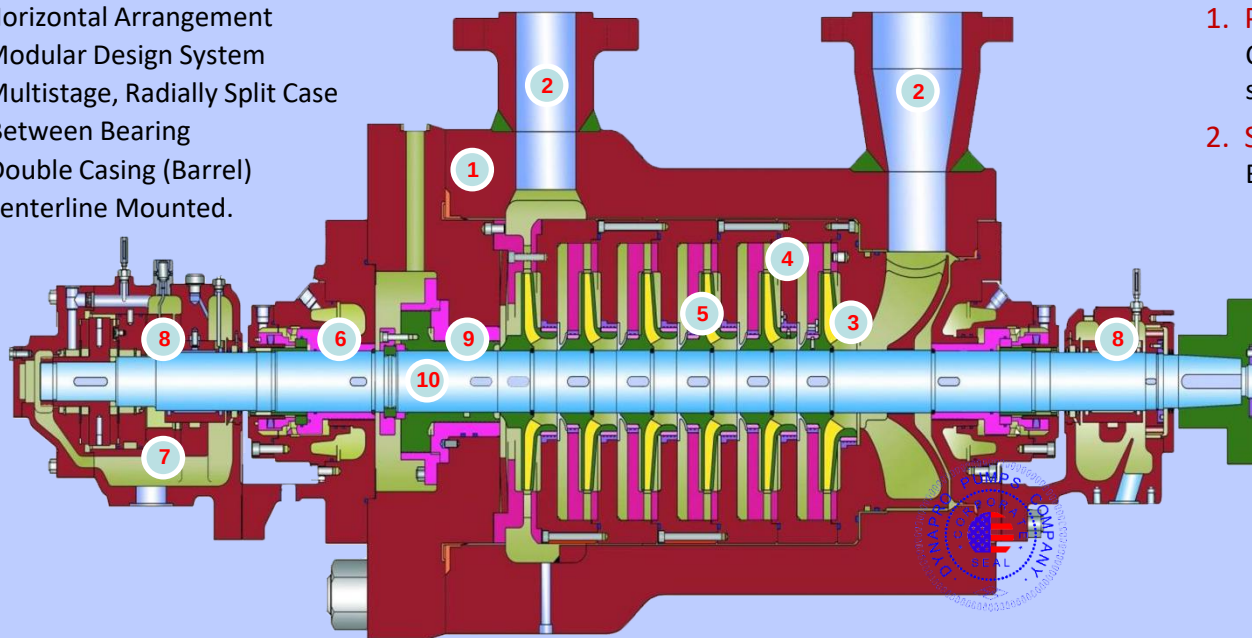
Committed To Excellence

BFI**API-610, BB5
12th Edition**

The Dynapro Pumps Company
in centrifugal pump design, development,
manufacturing, and servicing to comply to
the latest industry standards
as full compliance equipment.

*The BFI Pumps*

- Horizontal Arrangement
- Modular Design System
- Multistage, Radially Split Case
- Between Bearing
- Double Casing (Barrel)
- Centerline Mounted.

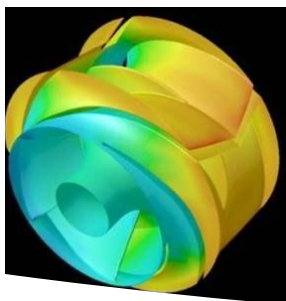


The pumps meet the stringent specifications of API-610 process pumps under heavy and medium-duty conditions.

To meet these demands, this product range is available in a wide spectrum of materials of construction and numerous design alternatives (as per API-610).

BFI Design Features

- 1. Pump Case (Barrel) –**
Cylindrical metal forgings to assure strength necessary for safety operation under high pressure at all temperatures.
- 2. Suction and Discharge Nozzles –**
Both nozzles are locked in position with split steel rings and welded pressure tight.
- 3. Low NPSH Requirements –**
The first stage or suction impeller is specially designed for difficult suction conditions. The vanes extend across the inlet eye and the entrance angle of vanes with radial and section, giving a uniform absolute velocity across the vane section which results in a greater range of capacity without cavitation with minimum NPSH required.
- 4. Diffusers –**
They are a major contribution to the efficiency and flexibility of our design to eliminate radial unbalance throughout the entire operating range and minimize sensitivity to thermal shock.



BFI is API-610 Centrifugal Pumps for Heavy Duty High Extreme Pressure Applications from Water Injection to High Pipeline Services. Standardized Product Ranges and Customized Fit Basis to Match the Service Requirements.



5. Impellers –

All impellers are dynamically balanced in two planes in sensitive balancing machines of special design. Double volute construction evenly distributes radial forces.

6. Mechanical Seals –

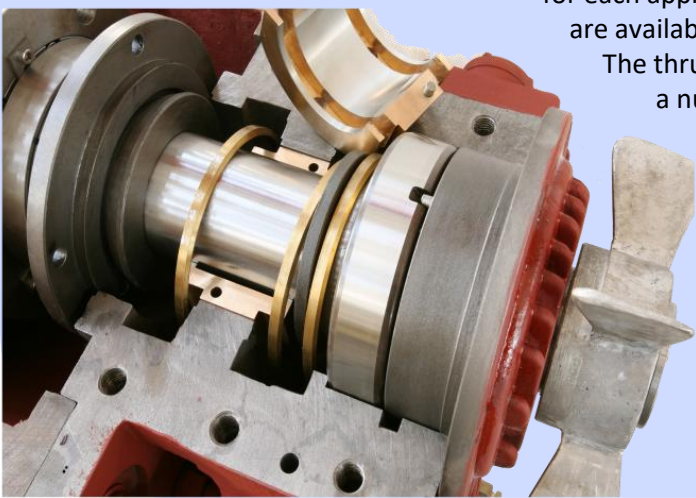
Pre-engineered for over 20 types of mechanical seals. Also accepts controlled leakage seals or packing.

7. Water-cooled Stuffing Box –

Available when required.

8. Bearing Arrangements –

Bearings are sleeve radial/KTB thrust. Thrust bearings are conservatively sized for each application. Tri-land sleeve bearings are available for high speed applications. The thrust bearing can be obtained from a number of manufacturers to suit customer preference. Both and KTB are force feed lubricated for long life.



9. Balance Drum –

Maintains axial balance throughout the operating range. A straight or flanged drum is available depending on the application.

10. Stiff Shaft Design –

Shaft is heavy duty, precision machined and stepped for easy assembly. Generous fillet radii at shoulder reduces stress concentrations. Optimum bearing span and large shaft diameter minimize deflection and prolong bearing and mechanical seal life.

Hydraulic Coverage

Performance Ratings

Capacity	Q	840 m ³ /h	(3696 USgpm)
Head	H	3500 m	(11484 ft)
Speed	n	6500 rpm	
Temperature		450 °C	(845 °F)
Pressure		400 barg	(5800 psig)

DYNAPRO PUMPS

A LOUIS PUMPS COMPANY



Dynapro Pumps Company

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The manufacturers reserve the right to alter
the specification and data to incorporate
improvements in design.
Certified drawings will be issued on request.

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