



END SUCTION PUMPS

MODEL FCH & FCH-N
(CHEMICAL PROCESS PUMPS)

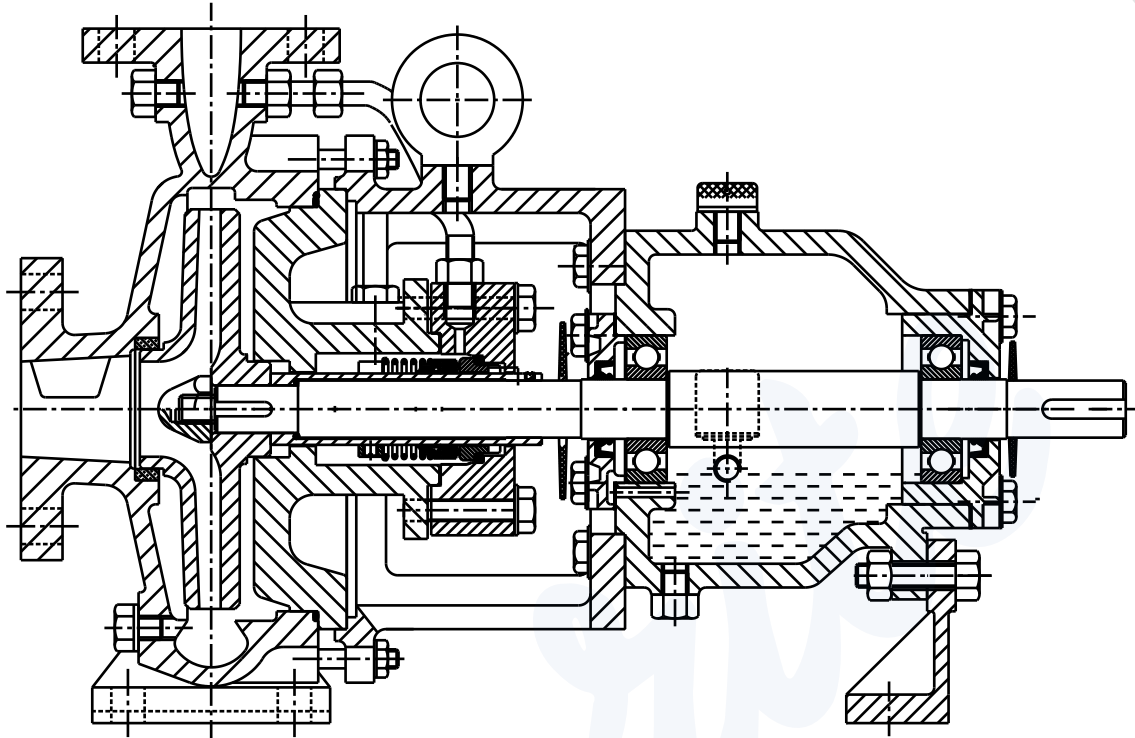


END SUCTION PUMPS

TECHNICAL DATA

- Pump Capacity : up to 660 m³/hr (11000 LPM)
- Pump Head : up to 200 mts
- Temperature : up to 260°C
- Working Pressure : up to 22 kg/cm²
- Speed : up to 3000 RPM (Nominal)
- Rotation : clockwise when viewed from Drive End

SECTIONAL VIEW



Available with :

Mechanical Seals of different types.

Semi-open impellers for pumping sludges, slurries with solid particles and fibrous materials.

Self Priming arrangement.

Pumps can be supplied as per API 610 specifications (6th edition ONWARD)

Interchangeability of components provided for entire range of pumps

End Suction Back Pull Out Single Stage Process Pumps designed to DIN 24256/ISO 2858 specifications.

MATERIAL OPTIONS (OR AS PER CLIENT REQUIREMENTS)

- C.I. - IS 210 FG-200
- C.S. - Carbon Steel ASTM A216 gr. WCB
- ACI - Alloy Cast Iron
- BR - IS-318 Gr.2
- A - 20 - Cast Alloy - 20 ASTM A296 - CN - 7M
- 410 - Cast Stainless Steel ASTM A296
- HAST.B - Hastalloy B
- HAST.C - Hastalloy C

APPLICATIONS :

- Condensate Pumps
- Diesel / Motor Spirit / Kerosene Decanting
- Rail Wagon Unloading
- Tank Lorry Filling
- LPG Filling / Service
- Refinery
- Textile
- Process Industries
- Firefighting
- Mine Dewatering
- Water Circulation
- Solvents
- Boosters Service
- Ethanol Pump
- Offshore Industries
- Rail Wagon Unloading
- Solid Handling
- Water supply
- Auxiliary Cooling
- Slurries/ Sewage/ Sludges
- Chemicals
- Sugar
- Dyeing Industry
- Sea Water Desalination
- Irrigation
- Waste Water
- Pharmaceutical
- Paper & Pulp
- Ethanol Blending
- Power
- Petroleum
- Nuclear Plants
- Thermal Plants
- Petrochemicals
- Fertilizer Plants
- Defence
- Steel
- Pump Spares

DESIGN FEATURES

CASING

Single piece, efficient volute, with corrosion and erosion allowances. The casing is top centreline, self venting, and with integral casted feet. Fully confined gaskets are provided for zero joint leaks. Flanges are suitable for ASA lbs. as a standard. 300 lbs. can be provided.

IMPELLERS :

Closed impellers, hydraulically & dynamically balanced with back vanes and designed for low NPSH. These impellers are hand finished for efficient & smooth operations. Semi-open impellers are also provided as optional.

SHAFT SLEEVES :

These are manufactured and ground to close tolerance. 'O' rings are provided between shaft and shaft sleeve for zero leaks.

BASEPLATE :

Fabricated from structural steel, designed to take heavy loads for vibration free operation. drip tray provided for collecting leakage liquid through screwed pipe connection.

SHAFT :

Shafts are manufactured from materials of ample size, turned and ground to high accuracy. These are designed for 0.05mm deflection at stuffing box.

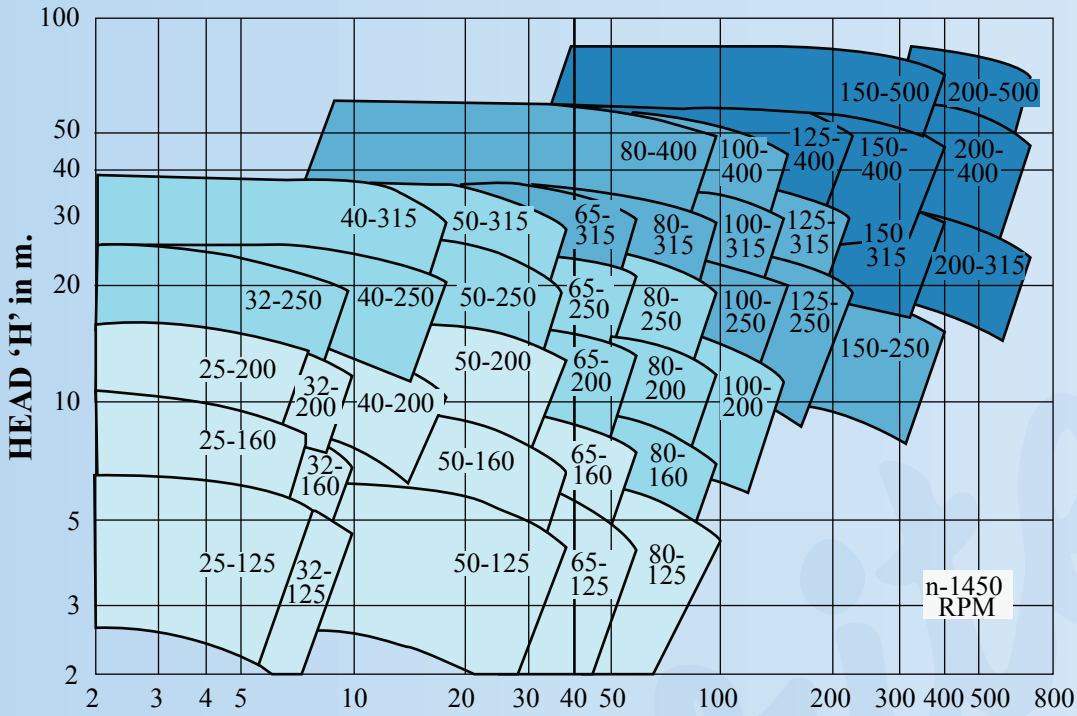
WEAR RINGS :

Casing wear rings are standard feature for pumps as per ISO-2858 / DIN-24256. Impeller wear rings are provided as optional.

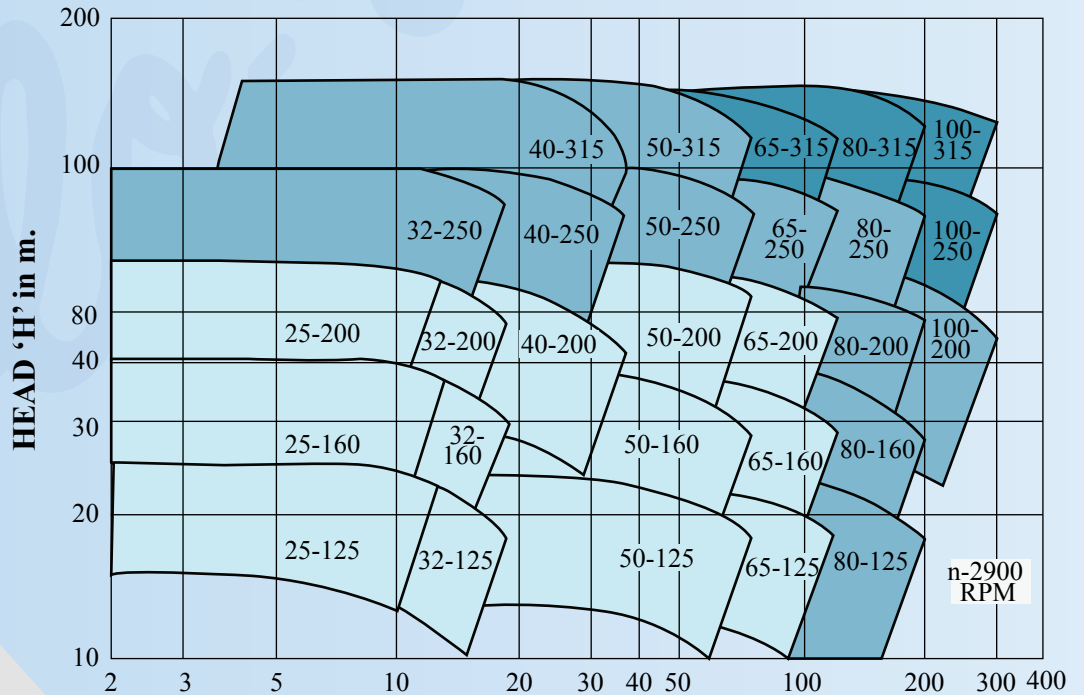
BEARING BRACKET & BEARINGS :

Modular designed to keep low inventory. Bearing housing accommodates bearings of ample size for 20,000 working hours. Two angular contact bearings at drive end and one roller bearing at impeller end to ensure long life. The bearing are of ample size to take the radial and thrust load.

Capacity - 'Q' in m³/hr



Capacity - 'Q' in m³/hr



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