



Enriching Lives

PROCESS PUMPS

TYPE - KPD / KPD-QF / KPDT / KPDJ



Range:

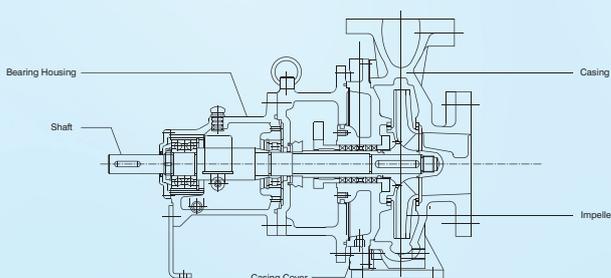
Delivery size: up to 200 mm
Capacity: up to 900 m³/hr
Head: up to 225 metres
Working Pressures: 16-30 kg/cm²
Temperature: (-)50°C to (+)350°C

Applications:

Chemical Process Industries, Petro Chemical, Refinery, Paper, Power Plants and Sugar Plants etc. Pumps suitable for handling Corrosive Liquids, Alkalies, Salt Solutions, Caustics, Hydro Carbons, Oils, Thermic Fluids, Condensates, Viscous Liquids and Congealing Liquid etc.

Cross Sectional View

KPD (Foot Mounted)



Features:

Pumps are as per EN 22858 (DIN 24256) and ISO 2858. The design is of back pull out type. Large variety of models are available to operate at 1450 rpm and 2900 rpm at 50Hz/60Hz.

Casing:

The casing has axial suction and top centre line delivery. Smooth hydraulic passages ensure high efficiency. Normal design is for foot mounted pumps. Centre line mounting for special applications are also available. Jacketed Casings are available for handling congealing liquid.

Impeller:

The impellers are of enclosed type and semi-open impellers can also be supplied. Hydraulic balancing of impellers is achieved either by back vanes or by balancing holes. The impellers are statically and dynamically balanced. Reliable fixing of the impeller on shaft is achieved by using helicoil insert under impeller nut. To improve NPSH performance, inducer can be supplied.

Shaft:

The shaft is supported by two antifriction bearings to take residual axial thrust and prevent axial float or radial run out. It is fully protected from the liquid handled by means of a shaft sleeve and gaskets between impeller nut, impeller hub and shaft sleeve.

Stuffing Box :

The stuffing box is sealed by gland packing or by cartridge type mechanical seal. Conversion from gland packing to mechanical seal is achieved by changing some standardised parts. Re-machining of stuffing box is not necessary. Stuffing box cooling is provided for operating temperature 105°C for gland packed and 140°C for mechanical seal fitted pumps.

Bearing:

The bearings are oil lubricated. For high temperature (above 180°C) application, bearing oil cooling arrangement is provided. All pumps are provided with reinforced bearing arrangement as standard supply.

Direction of Rotation :

Clockwise viewed from driving end.

Drive:

Pumps can be driven by electric motor or engine.

Flanges:

ANSI B 16.1, CL 125 Flat Face : for CI/BR
ANSI B 16.5, CL 150 Raised Face - for sp.metals viz. st.steel, cast steel etc.
Drilling as per DIN, ASA, BS etc. (Optional)



KIRLOSKAR BROTHERS LIMITED

Established 1888

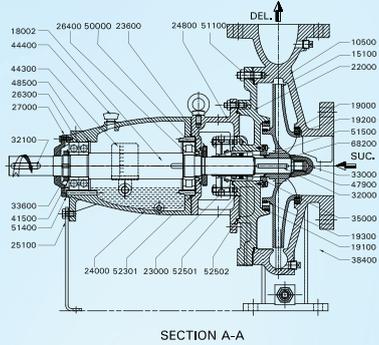
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FEATURES (KPD-T)

Applications:

KPD-T pumps are designed for handling Thermic fluids, Synthetic Oil, Hot Oil etc. The working temperature range is normally 200°C and above.

Cross Sectional Drawing (KPD-T)



Constructional Features:

- Pump with centerline mounted delivery casing
- Pump with stuffing box cooling and bearing cooling arrangement
- Pump in all Cast Steel construction i.e. MOC code 10. (All CF8M MOC very rarely offered.)
- Pump with Grafoil packing rings for gland packed execution
- Pump in solid gland in cast steel material. Instead of spilt gland.
- Pump with special close clearance stuffing box bush

Gaskets:

- Spiral wound gasket in between casing and casing cover
- Other gaskets coming in liquid contact are in Grafoil
- Mechanical seals are metal bellow type as per seal manufacturer's recommendations
- Stuffing box jacket is formed using viton 'O'ring or welding sheet metal to casing cover depending upon considering temperature of fluid

Metallic oil breather

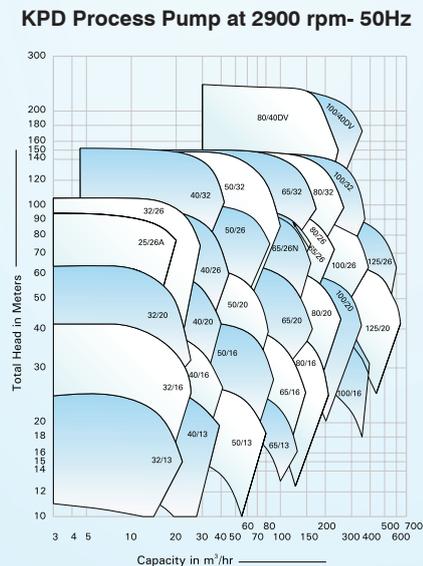
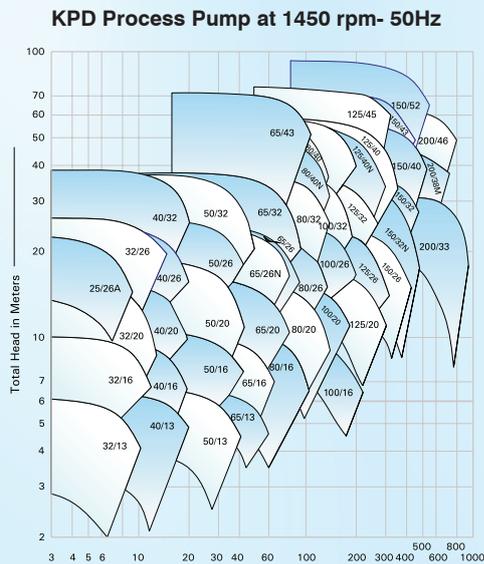
Material Of Construction:

Casing/ Casing Cover	Cast Iron/ Cast Steel/ Stainless Steel/ Duplex Steel/ Super Duplex
Impeller	Cast Iron/ Bronze/ Cast Steel/ Stainless Steel/ Chrome Steel/ Duplex Steel/ Super Duplex
Wear Ring /Wear Plate	Cast Iron/ Bronze/ Steel/ Duplex/ Super Duplex
Shaft	Carbon Steel/ Stainless Steel/ Duplex Steel/ Super Duplex
Shaft Sleeve	Stainless Steel I Bronze/ Super Duplex

* Bronze material will be suitable for temperature upto 105°C

** Material of construction shall be on the basis of application & liquid characteristics

Family Curves:



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OUR COMPANIES



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