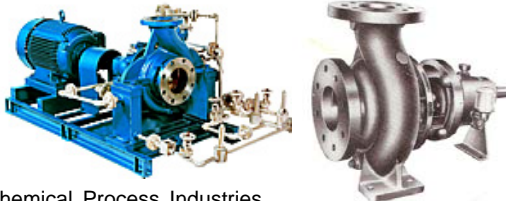




# KIRLOSKAR BROTHERS LTD.

**END SUCTION ENCLOSED/SEMIOPEN IMPELLER PROCESS PUMP TYPE-KPD/KPDT/KPDS CONFORMING TO DIN24255 & ISO 2858 & API 610 WET/DRY PIT & CENTRE LINE MOUNTED**



## Description

### Range :

Delivery size up to 200 mm, Capacity up to 750 m<sup>3</sup>/hr, Heads up to 150 metres ,Working Pressures 16-25 kg/cm<sup>2</sup> Temperatures (.) 500C to + 3500C

### Applications :

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

**Constructional features :** Pumps are as per DIN 24256 and ISO 2858 and generally conform to API 610 (7th Edition) The design is of back pull out type. Large variety of models are available to operate at 1450 rpm and 2900 rpm at 50Hz and 1750 rpm and 3500 rpm at 60 Hz.

**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.

**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 bearingsto 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 PTFE gaskets between impeller nut, impeller hub and shaft sleeve.

**Stuffing box :** The stuffing box is sealed by gland packing or by 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

1050C for gland packed and 1400C for mechanical seal fitted pumps.

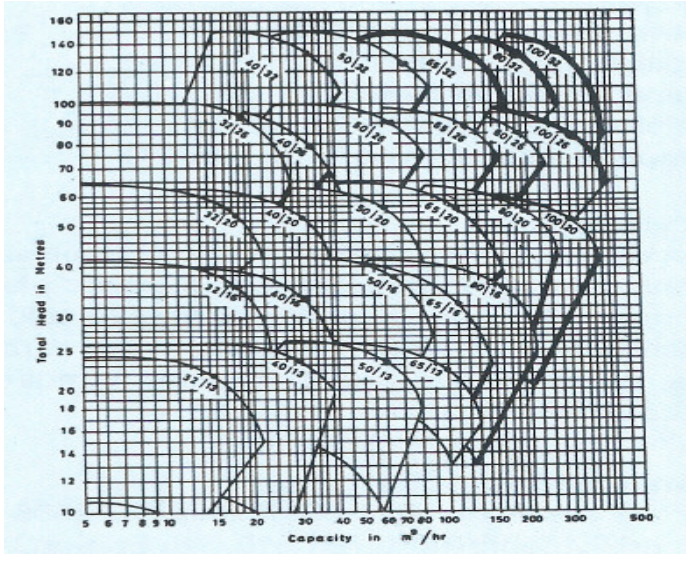
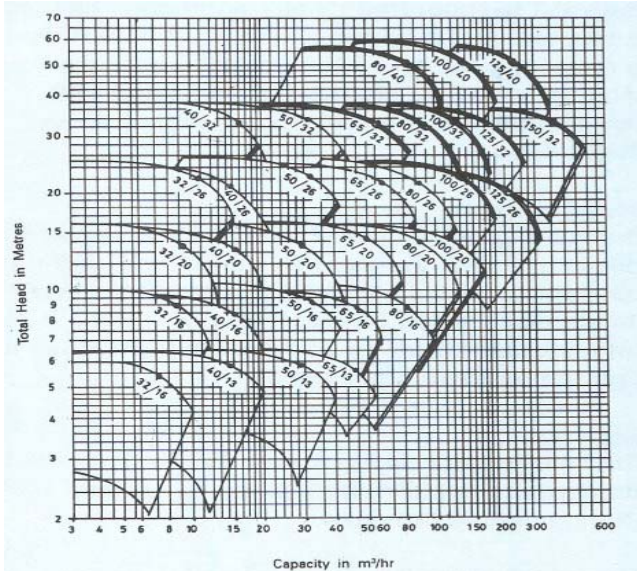
**Bearings :** The bearings are oil lubricated. For high temperature(above 180o) application, bearing oil cooling arrangement is provided. All pumps are provided with reinforced bearing arrangement as standard supply.

**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 ect. (Optional

**Material of construction :** Casing & casing cover: Cast Iron / SG Iron / Bronze/CF8M/CS, Impeller : CS/ACI/ Bronze/CF8M ,Shaft : C-40/SS-316, All special MOC can be supplied on request

Family Curve of KPD Process Pump at 1450 rpm - 50 Hz

Family Curve of KPD Process Pump at 2900 rpm - 50 Hz



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