



Enriching Lives

Process Sump Pump - KPDS



Applications:

- Petrochemicals, refineries, fertiliser and power industries
- Transfer and circulation of acids, alkalis, solvent oil, etc.
- Highly alkaline and highly acidic liquids (with enclosed impeller)
- Crystallising liquids, liquids containing suspended solids, industrial clear effluent

Operating Range:

- Delivery size from 20 mm to 200 mm
- Capacity from 0.5 to 750 m³/hr
- Head up to 150 metres
- Temperature up to 90°C

Material of Construction:

- Casing C.I./SGI/Bronze/
Casing Cover Cast Steel/CF8M
- Impeller CI/ACI/Bronze/Ph.Br./Cast
Steel CF8M
- Shaft Cast Steel/St. Steel

Features:

- Vertical submerged, single stage, single suction pump
- Vertical shaft arrangement
- Side discharge pump with space saving installation

Constructional Features:

KPDS pumps are single stage, single suction, vertical spindle type. Available in 33 sizes.

Casing:

- Volute Type
- Blind stud holes withstand high pressure liquid areas.
- Adequate corrosion allowance on wall thickness

Impeller:

- Enclosed type, statically and dynamically balanced
- Hydraulically balanced by back vanes in back shroud of impeller
- Semi-open impeller also available on request

Shaft:

- Intermediate line and head shaft of ample strength and rigidity
- Minimum bearing span to keep a deflection & vibration to a minimum

Stuffing Box:

- Fitted at support plate level comprising 5 packings & a lantern ring.
- Sealing by water/liquid optional.
- Mechanical seal instead of packings can be offered against specific requirement.
- A cooling jacket is also provided.

Pipes:

- Fabricated column and taper column pipes of thick steel/stainless steel

Bearings:

- Press fitted bush bearings in the bottom casing cover.
- Bearing spiders to support the shafts.
- Angular contact ball bearing at the top to take residual hydraulic axial thrust and weight of rotating parts

Direction of Rotation:

- Clockwise when viewed from driving end

Drive:

- Pumps can be driven by electric motor

Flanges:

- Standard: Drilling as per ND 16 DIN2533 (Cast Iron Raised face) or DIN 2543 (Steel-Plain face)

Optional:

- DIN ND 10, ND 25
- ASA 150
- BS 10 Table F
- Bs 45004-16 bar or 25 bar

KIRLOSKAR BROTHERS LIMITED

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