



Enriching Lives

DISCOVER THE WORLD  
OF KIRLOSKAR PUMPS AND VALVES



*'Fluid Management for Better Tomorrow'*

**KIRLOSKAR BROTHERS LIMITED**

A Kirloskar Group Company

Established 1888

# Comprehensive Fluid Handling Solutions



Global Headquarter: "Yamuna", Baner, Pune.

## ABOUT KBL

Kirloskar Brothers Limited (KBL) is a world-class pump manufacturing company with expertise in engineering and manufacture of systems for fluid management. Established in 1888 and incorporated in 1920, KBL is the flagship company of the \$ 2.1 billion Kirloskar Group. KBL, a market leader, provides complete fluid management solutions in the areas of water supply, building & construction, power plants, industry, irrigation, oil & gas and marine & defence. We engineer and manufacture industrial, agriculture and domestic pumps, valves and hydro turbines.

In 2003, KBL acquired SPP Pumps, United Kingdom and established SPP INC, Atlanta, USA, as a wholly owned subsidiary of SPP, UK to expand its international presence. In 2007, Kirloskar Brothers International B.V., The Netherlands and Kirloskar Brothers (Thailand) Ltd., a wholly owned subsidiary in Thailand, were incorporated. In 2010, KBL acquired Braybar Pumps, South Africa. SPP MENA was established in Egypt in 2012. In 2014, Kirloskar Pompen B.V., established as a joint venture between Kirloskar International B.V. and Industrial Pump Group, The Netherlands in 2008 (formerly known as Kirloskar Brothers Europe B.V.), was incorporated as a fully-owned subsidiary of KBL. In the same year, KBL acquired SyncroFlo Inc., the largest independent fabricator of commercial and municipal domestic water booster pumps. To further consolidate its global position, in 2015, Kirloskar Pompen B.V. acquired Rodelta Pumps International, The Netherlands.

KBL has joint venture cooperation with Ebara, Japan since 1988 for the manufacture of API 610 standard pumps. Kirloskar Corrocoat Private Limited is a joint venture cooperation between KBL and Corrocoat, UK since 2006. KBL acquired The Kolhapur Steel Limited in 2007 and Hematic Motors in 2010.

KBL has eight manufacturing facilities in India at Kirloskarvadi, Dewas, Kondhapuri, Shirwal, Sanand, Kaniyur, Kolhapur and Karad. In addition, KBL has global manufacturing and packaging facilities in Egypt, South Africa, Thailand, The Netherlands, United Arab Emirates, United Kingdom and United States of America. KBL has 12,500 channel partners in India and 80 overseas and is supported by best-in-class network of authorised service centres and authorised refurbishment centres across the country.

All the manufacturing facilities at KBL are ISO 9001, ISO 14001, ISO 50001, BS OHSAS 18001 and SA8000 certified. KBL's corporate office in Pune is certified for ISO 9001 & SA8000.

The factories deploy Total Quality Management tools using European Foundation for Quality Management (EFQM) model. The Kirloskarvadi plant of KBL is a state-of-the-art integrated manufacturing facility having one of Asia's largest hydraulic research centre with testing facility to test pumps up to 50,000 m<sup>3</sup>/hr, equipped with motor up to 5000 kW.

KBL is the ninth pump manufacturing company in the world to be accredited with the N and NPT certification by American Society of Mechanical Engineers (ASME).

## OUR CAPABILITIES

- Cast iron foundries
- Alloy cast-steel foundry
- Non-ferrous foundry
- Centralised pattern shop
- Mechanised sand-processing system
- Automatic moulding and metal pouring system
- Independent units for cast iron, alloy steel and non-ferrous metals, exotic materials like duplex and super duplex, etc.
- Single Casting (CI) weighting up to 14,000 kg
- Extensive and well equipped material testing laboratory



## HYDRAULIC RESEARCH CENTRE (HRC)

- Largest Hydraulic Research Centre (HRC) in Asia, outside Japan, for testing pumps at duty conditions up to 5000 kW (motors of 3.3/6.6/11KV) and discharge up to 50,000 m<sup>3</sup>/hr
- Closed circuit NPSH testing capabilities
- Computerised data acquisition system
- Sump model study facility
- Conceptualised and built under the guidance & supervision of British Hydraulic Research Association



## MANUFACTURING LOCATIONS (INDIA)

1. Kirloskarvadi, Maharashtra
2. Shirwal, Maharashtra
3. Kolhapur, Maharashtra
4. Ahmedabad, Gujarat
5. Dewas, Madhya Pradesh
6. Kondhapuri, Maharashtra
7. Kaniyur, Tamil Nadu

## MANUFACTURING LOCATIONS (GLOBAL)

1. Atlanta, United States of America
2. Coleford, Gloucestershire
3. Johannesburg- Braybar Pumps (Pty) Limited, Republic of South Africa
4. Velson Noord, The Netherlands
5. Bangkok, Thailand
6. Johannesburg, Republic of South Africa
7. Almelo, The Netherlands

# Kirloskar Pumps & Valves



**Domestic Monobloc Pump**  
Type - MINI



**Self-priming Pump Ultra Series**  
Type - Star Ultra



**Self Priming Pump Sparkle Series**  
Type - Sparkle

## Range

Head : Up to 52 metres  
Capacity : Up to 4500 LPH  
Power Rating : 0.37 to 1.1 kW/  
0.5 to 1.5 HP  
Voltage range : 180 to 240 Volts

Head : Upto 40 metres  
Capacity : Up to 3350 LPH  
Power Rating : 0.37 to 0.75 kW/  
0.5 to 1.0 H  
Voltage Range : 180 to 260 Volts

Head : Up to 26 metres  
Capacity : Up to 2200 LPH  
Power Rating : 0.37kW/ 0.5 HP  
Voltage range : 180 to 240 Volts

## Features

- † High Suction Lift
- † High Quality Aluminium Motor Body
- † Easy Maintainable Designs
- † Shielded Ball Bearing

- † Shielded Ball Bearing
- † High Efficiency and Energy Saving Design
- † Dynamically Balanced Rotating Parts
- † Easy Maintainable Designs

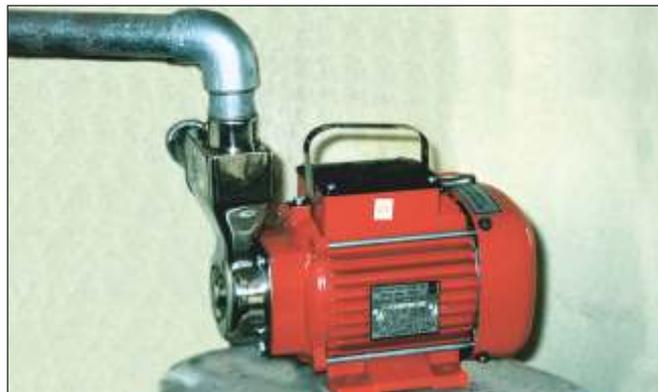
- † Shielded Ball Bearing
- † High Efficiency And Energy Saving Design
- † Dynamically Balanced Rotating Parts
- † Easy Maintainable Designs

## Applications

- † Gardens/Fountains
- † Feed Water to RO
- † Domestic Water Supply
- † Construction Site
- † Car Washing
- † Lawn Sprinklers

- † Bungalows
- † Apartments
- † Hotels
- † Farmhouse
- † Fountains

- † Farmhouse
- † Fountains
- † Water Tanks
- † Gardening
- † Small Farm Irrigation



A Monobloc Pump in Stainless Steel Construction in Use for Domestic Water Supply



**Monobloc Pumps  
Single Phase**  
Type - KDS



**Monobloc Pumps  
Single Phase**  
Type - Pumba Puzha



**Openwell Submersible Pump  
Single Phase**  
Type - KOSi



**Pressure  
Boosting Pump**  
Type - CPBS

Head Range : Up to 52 metres  
Discharge Range : Up to 28 lps  
Power Ratings : 0.37 to 3.7 kW  
Voltage Range : 180 to 240 Volts

Head Range : Up to 25 metres  
Capacity : Up to 4.6 lps  
Power Ratings : 0.37 to 0.55 kW  
Voltage Range : 180 to 240 Volts

Head Range : Up to 42 metres  
Discharge Range : Up to 9.7 lps  
Power Ratings : 0.37 to 1.5 kW  
Voltage Range : 160 to 240 Volts

Head Range : Up to 52 metres  
Discharge Range : Up to 140 LPM  
Power Rating : 0.4 to 1.1 kW  
Voltage range : 180 to 240 Volts

- 1 Wide Voltage Design
- 1 Replaceable Wearing Parts
- 1 TOP - Thermal Overload Protector
- 1 CED - Cathode Electro Deposition Coating

- 1 Automatic Air Release
- 1 CED - Cathodic
- 1 Electro Deposition
- 1 Shielded Ball Bearing
- 1 High Efficiency and Energy Saving Design

- 1 Wide Voltage Design
- 1 Lightweight and Compact Design
- 1 Dynamically Balanced Rotating Parts
- 1 Replaceable Wearing Parts

- 1 Compact Reliable And Silent
- 1 TOP - Thermal Overload Protector
- 1 Diaphragm Type Pressure Tank
- 1 Reliable and Durable Components

- 1 Gardening and Small Farm Irrigation
- 1 Lawn Sprinklers
- 1 Water supplies for High-rise Buildings
- 1 Domestic and Community Water Supply

- 1 Gardening
- 1 Small Farm Irrigation
- 1 Lawn Sprinklers
- 1 Fountains

- 1 Domestic and Community Water Supply
- 1 Construction Site
- 1 Water Supply to Over-head Tanks

- 1 Constant Pressure at Multi-outlets
- 1 Multi-jet Shower Panels
- 1 Washing Machine, Hot Water Geyser, Gas Geyser
- 1 Pressurised Washing of Vehicles
- 1 Kitchenware Washing



Monobloc Pump in Use for Water Supply at a Site in India

# Kirloskar Pumps & Valves



## Openwell Submersible Pump

Type - JOS



## 3" Borewell Submersible Water Filled Pumpset

Type - KS3



## 6" Borewell Submersible Water Filled Pumpset

Type - KS6

### Range

Head Range: Up to 64 metres  
Discharge Range: Up to 48.5 lps  
Power Ratings: 2.2 to 15 kW  
Voltage Range: 200 to 440 Volts

Head Range : Up to 131 metres  
Discharge Range : Up to 72 LPM / 4.3 m<sup>3</sup>/h  
Power Ratings : 0.37 to 1.1 kW  
Voltage Range : 160 to 240 Volts

Head Range : Up to 276 metres  
Discharge Range : Up to 1540 LPM  
Power Ratings: 2.2 to 18.3 kW  
Voltage Range: 160 to 240 Volts (Single Phase), 200 to 440 Volts (Three Phase)

### Features

- 1 Wide Voltage Design
- 1 Designed to Prevent Overloading
- 1 High Efficiency & Energy Saving Design
- 1 Dynamically Balanced Rotating Parts

- 1 Longer and Trouble Free Life
- 1 Advanced Water Cooled Motors Designs
- 1 Wide Voltage Motor Designs with 100% Copper Rotor
- 1 Easy Maintainable Designs

- 1 Wide Voltage Motor Designs with Copper Rotor
- 1 Sand Fighter Designs
- 1 Dynamically Balanced Rotating Parts
- 1 Longer & Trouble Free Life

### Applications

- 1 Irrigation (in horticulture & agriculture)
- 1 Sprinkler and Drip Irrigation
- 1 Water supplies for High-rise Buildings
- 1 Rural Water supply

- 1 Rural Water Supply
- 1 Gardening and Small Farm Irrigation
- 1 Construction Site
- 1 Water supplies for High-rise Buildings

- 1 Irrigation (in horticulture & agriculture)
- 1 Sprinkler and Drip Irrigation
- 1 Rural water supply
- 1 Ground Water supply to Water works



Axially-splitcase pumps in vertical execution, for a water supply scheme in Kedah, Malaysia.



**7" Borewell Submersible Water-filled Pumpset**

Type - KS7



**9" Borewell Submersible Water-filled Pumpset**

Type - KS9



**3" Borewell Submersible Oil-filled Pumpset**

Type - KP3S



**4" Borewell Submersible Oil-filled Pumpset**

Type - KU4

Head Range :Up to 81 metres  
 Discharge Range : Up to 2100 LPM  
 Power Rating: 4.5 to 18.5 kW  
 Voltage Range:280 to 440 Volts

Head Range : Up to 114 metres  
 Discharge Range: Up to 3150 LPM  
 Power Ratings: 7.5 to 45 kW  
 Voltage Range:350 to 440 Volts

Head Range :Up to 87 metres  
 Discharge Range : Up to 96 LPM/ 5.8 m<sup>3</sup> / h  
 Power Ratings: 0.37 to 1.1 kW  
 Voltage Range:160 to 240 Volts

Head Range : Up to 251 metres  
 Discharge Range : Up to 350 LPM  
 Power Ratings: 0.37 to 4.0 kW  
 Voltage Range: 150 to 240 Volts (Single Phase), 280 to 440 Volts (Three Phase)

- 1 Wide Voltage Motor Designs with Copper Rotor
- 1 Sand-fighter Designs
- 1 Dynamically Balanced Rotating Parts
- 1 Longer and Trouble Free Life

- 1 CED – Cathodic Electro Deposition
- 1 Designed to Prevent Overloading
- 1 Glycol-mixed Water
- 1 Advanced Water-cooled Motors Designs

- 1 Fully Stainless Steel Pump
- 1 Dual Mechanical Seal
- 1 Bottom Suction
- 1 Compact Design

- 1 Designed to prevent Overloading
- 1 Lightweight and Compact Design
- 1 Flatter Efficiency Curve
- 1 Suitable for Horizontal Applications

- 1 Domestic and Community Water supply
- 1 Sprinkler and drip irrigation
- 1 Rural water supply
- 1 Ground water supply to water works

- 1 Agriculture
- 1 Irrigation
- 1 Sprinkler irrigation
- 1 Water supply

- 1 Domestic and community water supply
- 1 Water supplies for High-rise Buildings
- 1 Gardening and small farm irrigation
- 1 Construction site

- 1 Water supplies for high rise building
- 1 Gardening and small farm irrigation
- 1 Construction site
- 1 Ground water supply to water works



DB pumps for firefighting application

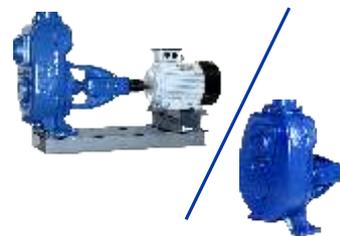
# Kirloskar Pumps & Valves



**Monobloc Pumps  
Three Phase**  
Type - KDS



**Stainless Steel  
Monobloc Pump**  
Type - KSMB



**Self-priming  
Pump**  
Type - SP

## Range

Head Range : Up to 76 metres  
Discharge Range : Up to 49 lps  
Power Ratings : 0.37 to 22 kW  
Voltage Range : 300 to 440  
Volts

Head Range : Up to 50  
metres  
Discharge Range : Up to 17.8  
lps  
Power Ratings: 0.75 to 7.5 kW  
Voltage Range: 350 to 440  
Volts

Head Range: Up to 44 metres  
Discharge Range: Up to 80 lps  
Power Rating: 0.75 - 18.7 kW  
0.37 - 3.7 kW, (1 - 25 HP) Motor  
Coupled\*  
Voltage Range: 415±10% (For  
motor coupled only)

## Features

- 1 Flatter Efficiency Curve
- 1 Wide Voltage Design
- 1 Designed to Prevent Overloading
- 1 Replaceable Wearing Parts

- 1 Stainless Steel – Wetted Components
- 1 Mechanical Seal
- 1 High Efficiency and Energy Saving Design
- 1 Superior Hydraulics

- 1 Self-priming
- 1 Non-clog Impeller
- 1 Flatter Efficiency Curve
- 1 Designed to prevent Overloading

## Applications

- 1 Air-conditioning
- 1 Cooling towers
- 1 Irrigation (in horticulture & agriculture)
- 1 Fire fighting systems

- 1 Pharmaceutical industries
- 1 Food processing
- 1 Demineralising plant
- 1 Air conditioning and refrigeration systems
- 1 Dairy and beverages

- 1 Handling chemicals, effluents, sewage, ash-water
- 1 De-watering foundation, trenches and pits
- 1 Flood-water handling
- 1 Pumping water from docks, ports, vessels



Mixed flow pumps for sewage application at Faiyad, Egypt



**Sewage Dewatering Submersible Pump**

Type - Eterna CW



**Openwell Submersible Pump Three Phase**

Type - KOS



**Monobloc Pump Three Phase**

Type - KDI



**Vacuum Pump**

Type - DV

Head Range: Up to 70 metres  
 Discharge Range: Up to 4,800 LPM  
 Power Rating: 0.75 to 15 kW  
 Voltage Range: 380 to 440 Volts

Head Range : Up to 76 metres  
 Discharge Range : Up to 38 lps  
 Power Ratings : 2.2 to 11.2 kW  
 Voltage Range : 200 to 440 Volts

Head Range : Up to 76 metres  
 Discharge Range : Up to 39 lps  
 Power Ratings : 1.5 to 22 kW  
 Voltage Range : 350 to 440 Volts

Vacuum: Up to 640 mm of Mercury  
 Air Flow Rate: Up to 162 m<sup>3</sup>/hr (at mean sea level)  
 Power Ratings: 3.7 to 7.5 kW  
 Voltage Range: 375 to 455 Volts

- 1 High Efficiency And Energy Saving Design
- 1 Easy Maintainable Designs
- 1 Robust Construction
- 1 Replaceable Wearing Parts

- 1 Wide Voltage Design
- 1 Flatter Efficiency Curve
- 1 Dynamically Balanced Rotating Parts
- 1 Easy Maintainable Designs

- 1 Flatter Efficiency Curve
- 1 Wide Voltage Design
- 1 Designed to Prevent Overloading
- 1 Automatic Air Release

- 1 Wide Voltage Design
- 1 Designed to prevent Overloading
- 1 Replaceable Wearing Parts
- 1 Dynamically Balanced Rotating Parts

- 1 Sewage pumping
- 1 De-watering from basements, multi-storeys, shopping malls, godowns
- 1 Construction Site
- 1 De-watering foundation, trenches and pits
- 1 Flood-water handling

- 1 Industrial service water supply schemes
- 1 Domestic and community water supply
- 1 Construction site
- 1 Water supplies for high rise building

- 1 Air conditioning and refrigeration systems
- 1 Cooling towers
- 1 Clear-water handling at high pressure in industries
- 1 Fire-fighting system

- 1 Priming of large pumps
- 1 Evacuation of air from suction pipes and chambers
- 1 Twist drilling machine, removing water from pulp layer, labelling, bottle filling, de-odorising



Vertical Turbine (VT) Pumps installed at Takari II Stage Irrigation Project, Maharashtra, India

# Kirloskar Pumps & Valves



**End Suction Pump**

Type - DB (Large)



**End Suction Pump**

Type - CPHM



**Mixed Flow Pump**

Type - MF/MFX

## Range

Delivery size  
150 mm to 300 mm  
(6" to 12")  
Capacity up to  
1900 m<sup>3</sup>/hr (8866 USgpm)  
Head up to 35 metres  
(112 ft)  
Temperature (-)10°C  
to 90°C

Delivery size from 20 mm to  
200 mm (3/4" to 8")  
Capacity up to  
750 m<sup>3</sup>/hr (3300 USgpm)  
Head up to 150 metres  
(480 ft)  
Temperature (-) 30°C  
to 90°C

Delivery size from  
200 mm to 650 mm  
(8" to 26")  
Capacity up to  
7000 m<sup>3</sup>/hr  
(30,820 USgpm)  
Head up to 30 metres  
(90 ft)  
Temperature 5°C  
to 140°C

## Features

- † Back pull-out design
- † Gland packed/  
Mechanical seal
- † 50HZ /60HZ availability

- † Conforming to DIN  
24256/ISO 2858
- † Back pull-out design
- † Gland packed/Mechanical  
Seal
- † 50HZ /60HZ availability

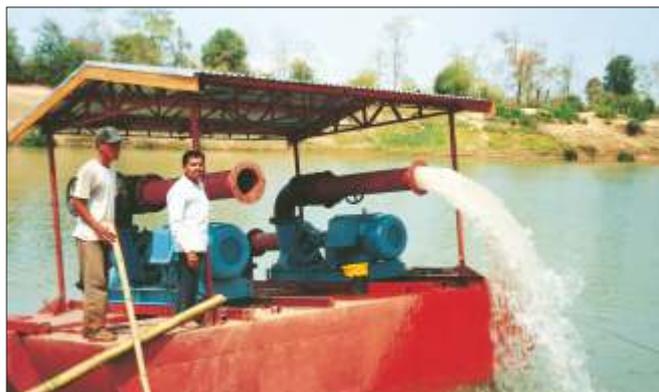
- † Low head, high  
capacity pumps
- † Gland-packed/Mechanical  
Seal
- † 50HZ /60HZ availability
- † Option available in  
horizontal as well as vertical  
delivery position

## Applications

- † Aqua Culture
- † Irrigation
- † Sugar Industries
- † Water Supply

- † Air-conditioning
- † Booster Service
- † Fire-fighting

- † Air-conditioning
- † Drainage
- † Irrigation
- † Storm Water



Pontoon mounted mixed flow pumpsets for irrigating paddy fields along Mekong river, the lifeline of Lao PDR



**End Suction Pump**

Type - CE



**Vertical Inline Pump**

Type - INIL



**End Suction Process Pump**

Type - KPD/KPDS



**Solids Handling Pump**

Type - SHM/SHS

Delivery size up to 125 mm (5")  
Capacity up to 660 m<sup>3</sup>/hr (2906 USgpm)  
Head up to 100 metres (320 ft)  
Temperature (-) 10°C to 140°C

Delivery size up to 200 mm  
Capacity up to 500 m<sup>3</sup>/hr (500 TPH)  
Head up to 150 metres

Delivery size from 20 mm to 200 mm ( 3/4" to 8")  
Capacity up to 750 m<sup>3</sup>/hr (3300 USgpm)  
Head up to 150 metres (480 ft)  
Temperature (-) 50°C to 350°C

Delivery size up to 200 mm ( 8" )  
Capacity up to 2400 m<sup>3</sup>/hr (10567 USgpm)  
Head up to 90 meters (288 ft)  
Temperature (-) 10°C to 140°C

- 1 Conforming to DIN 24256 and ISO 2858
- 1 Single-stage with back pull-out type design
- 1 Gland packed/ Mechanical Seal
- 1 Suitable for 3,500 rpm

- 1 Pump Casing: Computer aided hydraulic design
- 1 Impeller: The impellers are enclosed type. Hydraulic balancing holes.
- 1 Pump Shaft: The high tensile steel shaft is rigid in design & is accurately machined.
- 1 Stuffing Box: Stuffing box is sealed with highly engineered mechanical seal

- 1 Conforming to DIN 24256 & ISO 2858
- 1 Back pull-out design
- 1 Generally conforming to API 610
- 1 Gland packed/Mechanical seal
- 1 50HZ / 60HZ availability
- 1 Also available for vertical execution

- 1 Solid size up to 105 mm (maximum)
- 1 Back pull-out design
- 1 Gland packed/ Mechanical Seal
- 1 50HZ/60HZ availability
- 1 Also available in vertical execution

- 1 Air conditioning
- 1 Condensate water supply
- 1 Fire-fighting and Booster Services
- 1 Sprinkler system for handling clear and turbid water up to 3,000 ppm

- 1 Air conditioning sea and chilled water
- 1 Fire-fighting
- 1 Transfer of fuel oil, light lube oil, diesel oil, etc.
- 1 Distilling plant feed systems
- 1 Portable water supply

- 1 Air-conditioning
- 1 Condensate extraction
- 1 Distilleries
- 1 Edible oil, sugar, textile and process industries
- 1 Water treatment plants

- 1 Powdered material slurries
- 1 Sewage
- 1 Sludge
- 1 Sugar factory waste



Vertical Turbine (VT) Pumpsets in operation for water supply scheme at Sabah, East Malaysia.

# Kirloskar Pumps & Valves



**Horizontal Axially Split Casing Single Stage Pump**

Type - UP/UPL/UPH/UP(T)



**Horizontal Axially Split Casing Pump**

Type - SCT/SCT Extended



**Horizontal Axially Split Casing Two Stage Pump**

Type - DSM/DSM (T)

## Range

Delivery size from 50 mm to 1,100 mm (2" to 43")

Capacity up to 20,000 m<sup>3</sup>/hr (88,060 USgpm)

Head up to 160 metres (512 ft)

Temperature (-) 10°C to 90°C

Delivery size from 50mm to 350 mm (2" to 14")

Capacity up to 4500 m<sup>3</sup>/hr (19,814 USgpm)

Head up to 330 metres (1056 ft)

Temperature (-) 10°C to 100°C

Delivery size from 50 mm to 150 mm (2" to 6")

Capacity up to 470 m<sup>3</sup>/hr (2,069 USgpm)

Head up to 180 meters (576 ft)

Temperature (-) 10°C to 90°C

## Features

- 1 Gland packed/ Mechanical seal
- 1 50HZ/60HZ availability
- 1 Good suction performance and low NPSH
- 1 Vibration free performance

- 1 Pump axis horizontal or vertical
- 1 Gland packed/ Mechanical seal
- 1 50HZ/60HZ availability

- 1 Gland packed/ Mechanical seal
- 1 50HZ/60HZ availability
- 1 Good suction performance and low NPSH
- 1 Vibration free performance

## Applications

- 1 Air-conditioning
- 1 Fire-fighting
- 1 Irrigation
- 1 Paper, sugar and textile mills
- 1 Power plants
- 1 Water supply

- 1 Air-conditioning and refrigeration system
- 1 Fire protection systems and mining
- 1 Petroleum refineries
- 1 Water/liquids with slight impurities

- 1 Air-conditioning
- 1 Fire fighting
- 1 Irrigation
- 1 Mine drainage
- 1 Power plants
- 1 Water supply



Horizontal splitcase pump installed at a Chemical plant in Kochi, India



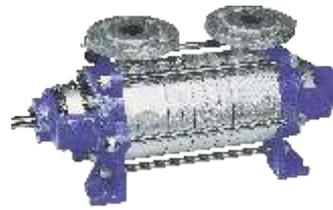
**Multistage Pump**

Type - RKB



**Non-clog Submersible Pump**

Type - i-NS



**Side Channel Pump**

Type - CF



**In-line Vertical Multistage Pump**

Type - KCIL/KSIL

Delivery size from 32 mm to 250 mm (1¼" to 10")

Capacity up to 850 m<sup>3</sup>/hr (3,145 USgpm)

Head up to 850 metres (2,720 ft)

Temperature (-) 40°C to 140°C

Delivery size from 150mm

Capacity up to 300 m<sup>3</sup>/hr

Head up to 50 metres (164 ft)

Permissible solid size up to 125 mm

Delivery size from 25 mm to 50 mm (1" to 2")

Capacity up to 20 m<sup>3</sup>/hr (88 USgpm)

Head up to 315 metres (1008 ft)

Temperature (-) 40°C to 120°C

Delivery size up to 100 mm (4")

Capacity up to 75 m<sup>3</sup>/hr (330 USgpm)

Head up to 220 metres (704 ft)

Temperature (-) 15°C to 120°C

- 1 Also available in vertical execution
- 1 Gland packed/ Mechanical seal
- 1 50HZ/60HZ availability

- 1 Impellers are available with two or multi vanes in semi-open and enclosed types
- 1 Permissible solid size up to 125 mm
- 1 Double mechanical seal with back to back arrangement

- 1 Conforming to DIN 24254
- 1 Flanges to DIN 2501 PIN 40
- 1 Channel Multistage, Modular Construction
- 1 Self-priming
- 1 Gland packed/ Mechanical seal
- 1 Electrical drive/engine drive

- 1 Pressed stainless steel components
- 1 Very high efficiencies
- 1 Low NPSH
- 1 All wetted parts in SS304 or SS316
- 1 Mechanical seal
- 1 50Hz /60Hz availability

- 1 Boiler feed
- 1 Booster Service
- 1 Fire-fighting
- 1 Mine Dewatering

- 1 Contaminated Effluents
- 1 Trench and Tunnel Water
- 1 Drainage Water
- 1 Sewage Water
- 1 Storm Water

- 1 Air Conditioning
- 1 Boiler Feed
- 1 Domestic
- 1 Petroleum, Chemical and Process Industries
- 1 Ship/Naval Engineering

- 1 Booster, Fire-fighting, HVAC
- 1 Boiler Feed, condensate/DM Water
- 1 Pressurised Cleaning Systems Drip and Sprinkler Irrigation
- 1 Purified Water, Food and Pharma Sectors
- 1 Reverse Osmosis, Water Treatment



Vertical multi-stage pressed stainless steel inline Pumps installed at a site

# Kirloskar Pumps & Valves



**Solids Handling  
Non-clog Pump**

Type - SHL



**Non-clog Pump**

Type - NK/NKV



**Submersible  
Sewage Pump**

Type - NS

## Range

Delivery size 250 mm to 900 mm (10" to 35")

Capacity up to 13,000 m<sup>3</sup>/hr (57,240 USgpm)

Head up to 82 metres (262 ft)

Temperature (-) 10<sup>o</sup>C to 90<sup>o</sup>C

Delivery size up to 450 mm (18")

Capacity up to 3,400 m<sup>3</sup>/hr (14,970 USgpm)

Head up to 55 metres (176 ft)

Temperature (-) 10<sup>o</sup>C to 140<sup>o</sup>C

Delivery size from 40 mm to 200 mm (1<sup>5</sup>/<sub>8</sub>" to 8")

Capacity up to 750 m<sup>3</sup>/hr (3302 USgpm)

Head up to 48 metres (154 ft)

Temperature (-) 10<sup>o</sup>C to 90<sup>o</sup>C

## Features

- 1 Horizontal shaft, single stage, single suction pumps with back pull-out type design
- 1 50HZ/60HZ availability

- 1 Single Stage, end suction, horizontal non-clog pumps
- 1 Also available in vertical design

- 1 Non-clog two vane or single vane enclosed impeller
- 1 Permissible solid size up to 105 mm (maximum)
- 1 Gland packed/Mechanical seal
- 1 50HZ/60HZ availability

## Applications

- 1 Contaminated process liquids like sugar factory waste, trade liquors
- 1 For handling liquids with solids in suspension, pulpy material in paper industries
- 1 Viscous liquids or powdered material slurries

- 1 Effluents, sewage, muddy, viscous, contaminated liquids containing solids in suspension, sugar factories, sewage pumping stations, chemical, fertilisers, pulp and paper, food and steel industries

- 1 Effluents
- 1 Raw sewage
- 1 Storm water
- 1 Waste water



Sewage handling pumps installed at a site in Versova, Maharashtra, India



**Metallic Volute Pump**

Type - MVP



**Canned Motor Pump**

Type - KCS/CAN



**Vertical Turbine Pump**

Type - BHR/BHQ/BHM/BHMa/BHA



**Concrete Volute Pump**

Type - CVP

Delivery size up to 6,000 mm  
Capacity up to 1,20,000 m<sup>3</sup>/hr  
Head up to 65 metres (208 ft)

Delivery size from 20 mm to 250 mm (3/4" to 10")  
Capacity up to 1000 m<sup>3</sup>/hr (4400 USgpm)  
Head up to 135 metres (432 ft)  
Temperature (-) 40°C to 250°C

Delivery size from 150 mm to 2200 mm (6" to 88")  
Capacity up to 40,000 m<sup>3</sup>/hr (1,76,120 USgpm)  
Head up to 240 metres (768 ft)  
Temperature (-) 10°C to 90°C

Delivery size up to 4,000 mm ( 160" )  
Capacity up to 1,20,000 m<sup>3</sup>/hr (5,28,360 USgpm)  
Head up to 50 meters (160 ft)  
Motor rating up to 4,500 kW (6120 hp)

- 1 High reliability design
- 1 Simplicity Superior
- 1 Operating performance
- 1 Vibration-free performance
- 1 Low submergence

- 1 Non-seal pump
- 1 Integral construction of pump & motor
- 1 Pumped liquid cools the motor and lubricates motor bearing
- 1 Horizontal/vertical execution

- 1 Dry pit/wet pit arrangement available
- 1 Low submergence
- 1 Gland packed/ Mechanical seal
- 1 50HZ/60HZ availability
- 1 Radial/Axial/Mixed Flow Type

- 1 Oil lubricated bearings
- 1 No water contact with shaft; hence no corrosion
- 1 Volute casing - reinforced Concrete
- 1 Shaft, impeller and other components
- 1 Special material available

- 1 Thermal and nuclear power plants
- 1 Water supply pumps
- 1 Irrigation pumps
- 1 Flood control
- 1 Storm water
- 1 Dry docks

- 1 Nuclear power plants
- 1 Petrochemical plants
- 1 Refrigeration plants

- 1 Cooling tower
- 1 Dry docks
- 1 Fire-fighting
- 1 Irrigation
- 1 Refineries
- 1 Thermal and nuclear power plants
- 1 Water supply

- 1 Aqua Culture
- 1 Circulating water/condenser
- 1 Cooling water for power plants
- 1 Desalination
- 1 Drainage and Flood Control
- 1 Dry Docks
- 1 Lift Irrigation and water Supply
- 1 Storm water



Concrete Volute Pumps (CVP) installed at the National Thermal Power Corporation, Vindhyachal, India

# Kirloskar Pumps & Valves



**End Suction Centrifugal  
Process Pump**  
Type - GK(P)



**Air cooled Thermic  
Fluid Pump**  
Type - AT



**Magnetic Drive  
Pump**  
Type - ROMA K

## Range

Delivery size Up to 150 mm  
Capacity up to 500 m<sup>3</sup>/h  
Head up to 150 metres  
(492 ft)  
Temperature 180°C

Delivery size 32 mm to 80 mm  
Capacity up to  
250 m<sup>3</sup>/hr  
Head up to 100 metres  
(328 ft)  
Temperature up to +350°C

Delivery size up to 100 mm  
Capacity up to  
300 m<sup>3</sup>/hr  
Head up to 150 metres  
(492 ft)  
Temperature (-) 50°C  
to 180°C

## Features

- 1 Back pull-out design
- 1 Top centerline discharge with foot-mounted as well as centerline volute casing
- 1 Availability of cooling jackets to cool stuffing box for liquids having temperature more than 105°C

- 1 The pump is integral foot mounted for a given temperature range
- 1 More reliable for thermal isolation of volute casing
- 1 Maintenance-free standard mechanical seal
- 1 Pump with grafoil packing at stuffing box cavity and sintered bearing

- 1 Sealless and glandless pump
- 1 End suction pump comprises permanent magnet coupling

## Applications

- 1 Acids/alkalies
- 1 Hydrocarbons, oils
- 1 Various process chemicals
- 1 Food processing units

- 1 Thermic fluids
- 1 Synthetic oils
- 1 Hot oil

- 1 Chemicals-paints, solvents, intermediaries, resin, polymers, other acidic and basic chemicals
- 1 Pharmaceuticals & petrochemicals
- 1 Clean/clear liquids without any suspended particles



Chemical & process plant



**Sluice Valve**



**Reflux Valve  
(Non-Return Valve)**



**Butterfly Valve**

Size 50 to 1200 mm  
( 2" to 48" )

Pressure PN 0.4 to  
PN 1.6 (conforming to  
IS 780 & IS 2906)

Rating PN 1.6  
(conforming to BS 5163)

Temperature up to 60°C

Size 350 to 750 mm  
( 14" to 30" )

Conforming to IS 5312

Temperature up to 60°C

Size 80 to 2500 mm  
( 3" to 100" )

Pressure up to PN 1.6

Conforming to BS 5155

Temperature up to 60°C

- † Rigid and sturdy design
- † Low pressure loss
- † Rising stem or Non-rising stem type
- † Resilient seated valves available

- † Bypass and dashpot arrangement
- † Multi-door arrangement
- † Low pressure loss

- † Duo-eccentrically mounted/streamlined disc
- † Less wear and tear
- † Self-cleaning and non-jamming seat design.
- † Low operating torque

- † Agriculture
- † Fire-fighting
- † Irrigation
- † Power
- † Sewerage
- † Sugar
- † Water Supply

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**Sluice and reflux valves installed at a Metro Municipal Corporation in India**

# Kirloskar Pumps & Valves



Gate Valve (Cast Steel)



Globe Valve (Cast Steel)



Check Valve (Cast Steel)

## Range

Class 150 Size 2" (50 mm) to 24" (600 mm)  
 Class 300 Size 2" (50 mm) to 12" (300 mm)  
 Conforming to BS 1414/API 600  
 Temperature upto 475°C

Class 150 and Class 300 Size 2" (50mm) to 8" (200 mm)  
 Conforming to BS 1873  
 Temperature upto 475°C

Class 150 and Class 300 Size 2" (50mm) and 8" (200mm)  
 Conforming to BS 1868  
 Temperature upto 475°C

## Features

- 1 Rigid and sturdy design
- 1 Low pressure loss

- 1 Rigid and sturdy design
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- 1 Rigid and sturdy design
- 1 Low pressure loss

## Applications

- 1 Chemical Industries
- 1 Process Industries
- 1 Refineries

- 1 Chemical Industries
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- 1 Chemical Industries
- 1 Process Industries
- 1 Refineries



Valves with pumps installed at Maharashtra Industrial Development Corporation Water Supply Project, Mumbai, India



**Suction Diffuser/  
Triple Duty Valve**

Type - SD/TDV



**Resilient Seated  
Gate Valve**



**Fire Service  
Water Control Valves**

Type - FM/UL Valves



**Dual Plate  
Check Valve**

Type - DPCV

**Size Range**

- i) Suction Diffuser - 2" to 20"
- ii) Triple Duty Valve - 2" to 24"

Pressure Rating: ANSI Class 125 and class 250

ANSI Standard Flanges

**Size Range**

50 mm to 1000 mm

Pressure Rating  
PN 10, PN 16

End-connection flange drilling  
standard as per BS EN 1092  
Part 2

Size Range 50 mm (2") to 250 mm (10") for FM approved, 50 mm (2") to 400 mm (16") for UL listed

Flanges Drilling  
BSEN 1092=2 PN 16 FF (Flat Faced) /ANSI B16.1 CL 125 (Flat Faced)

Pressure Class  
FM Valves - 50 mm to 250 mm - 250 PSI, UL valves - 50 mm to 350 mm - 175 PSI, 350 mm to 400 mm - 150 PSI

**Size Range**

80 mm to 2600 mm

Pressure rating  
CL-125, CL-150, CL-250,  
CL-300, CL-600

End connection  
Doubled flanged/wafer

**Suction Diffuser:**

- 1 Installed at the inlet of the pump, to serve as a filter to remove suspended debris

**Triple Duty Valve:**

- 1 Installed at the discharge side of pump systems
- 1 Throttling operation & tight shut off function

- 1 Pocket-less design ensures minimal head loss across valve
- 1 Assured leak tightness for long service life

- 1 Metal to metal seating for longer service life
- 1 Rigid and sturdy design with minimum loss of head across the valve
- 1 Leak-tightness even after thousands of Open/Close cycles

- 1 Lighter in weight and compact in size compared to conventional non-return valve
- 1 Innovative hinge pin design allows disc assembly to lift off seat prior to disc rotation preventing heel of each disc from scrapping across the body seat

- 1 HVAC building and construction (Multi-storied buildings/shopping complexes/indoor stadium/airports)

- 1 Industry (pharmaceuticals / bottling plants/chemical / food and beverages)

- 1 Used for reliable and safe supply of drinking water
- 1 Suitable for isolation duty (full open/full close)

- 1 Water supply lines and water plants

- 1 Fire service water control valves

- 1 Used in pipe lines to prevent reverse flow of water and water hammer the pumps from rising mains
- 1 Suitable to handle water, sea water, potable water, saw water having turbidity upto 5,000 ppm and temperature up to 45°C
- 1 Gas: on shore-off shore
- 1 Metallurgical & chemical processes



The largest butterfly valve (3800 mm) in thermal power plants in India



Enriching Lives

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Established 1888

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