



Enriching Lives

KIRLOSKAR VERTICAL MULTISTAGE INLINE PUMPS



KIRLOSKAR BROTHERS LIMITED

KIRLOSKAR VERTICAL MULTISTAGE INLINE PUMPS

Range

Delivery size upto : 100 mm

Capacity upto : 75 m³/hr

Head upto : 220 m

- ▶ Energy Efficient
- ▶ Easy installation and pipe connection
- ▶ Small floor space
- ▶ No expensive foundation



KIRLOSKAR VERTICAL MULTISTAGE INLINE PUMPS

Constructional Features

Kirloskar IL pumps are vertical multistage, high pressure centrifugal pumps in ring section design with inline suction and delivery.

Special Features

- ▶ Durable and light parts of high quality materials like stainless steel, tungsten carbide and ceramic
- ▶ Energy efficient through superior hydraulic design and ultra smooth hydraulic passage, and power saving of 10% to 30% when compared with conventional pumps
- ▶ All sealing by means of O-rings

Suction and Delivery Casing - Inline suction and discharge casing ensure easy installation and simple piping layout and negligible effect of outside nozzle forces / moments.

Impellers - Pressed stainless steel, enclosed, radial flow impellers have ultrasmooth hydraulic passages resulting in higher efficiency. Impellers have superior suction eye design ensuring lower NPSH.

Diffusers - Diffusers are made in pressed stainless steel and designed to reduce the internal losses.

Outer Casing Cover - Outer casing cover has specially shaped O ring grooves for optimal sealing. Pressurised water between diffuser and outer casing dampens the noise almost completely ensuring quiet operation.

Shaft - High tensile stainless steel vertical shaft is supported by bush bearings. The shaft is sealed with mechanical seal of DIN 24960 standard

Bearings - Radial type bush bearings of tungsten carbide on shaft and ceramic bearing in diffuser are maintenance free, self lubricated and highly wear resistant. Axial thrust is taken by motor bearings.

Direction of Rotation - Clockwise viewed from driving end.

Flanges - Flanges are in DIN standard. Material of Construction 01 and 02

Oval - 25 IL, 32 IL, 40 IL pumps up to 15 stages are supplied with oval flanges as a standard.

Round - 25 IL, 32 IL and 40 IL above 15 stages 50 IL, 65 IL, 80 IL and 100 IL pumps in all stages.

Material of Construction 03- Round flanges are supplied for all pumps

Applications

Liquid temperature from -15°C to 120°C.

Building industry - Booster, Fire fighting, Hydropneumatic system, Heating, Ventilation and Air conditioning

Small capacity power plant - Boiler feed and Condensate transfer

Water treatment plants - RO, DM plant, Waste water

Chemical, Pharma, Textile - Cooling, Transfer, Hot water services

Engineering and Automobile - Industrial washing machines, Coolant circulation

Dairy, Food processing, Beverages - Clean water services

Pressurised cleaning systems

Irrigation - Sprinkler irrigation, Golf course, Parks, Gardens, Sports grounds

Water Supply - Pressure boosting systems. Hotels, Resorts.

KIRLOSKAR VERTICAL MULTISTAGE INLINE PUMPS

Materials of Construction

Parts	Code 01- SS304	Code 02- SS316	Code 03- SS304 with suction and discharge casing of Cast Iron
Impellers, diffusers, bottom casing, outer casing cover and top casing cover	AISI 304	AISI 316	AISI 304
Pump shaft	AISI 303	AISI 316	AISI 304
Suction and delivery casing	AISI 304	AISI 316	Cast Iron
Base plate		Cast Iron	**
Motor stool		Cast Iron	
Elastomers ('O' rings)	Rubber EPDM	Rubber Viton	Rubber EPDM
Drain Plug	Brass	AISI 316	Brass

** Base plate is integral with suction and delivery casing for 03 code

Drive

The pumps are coupled with three phase TEFC motor as per IEC standard. Degree of protection IP 55 and Class of insulation F.

Pump Designation

25 IL 11

Suction and delivery size (mm) ——— 25

Pump Series ——— IL

No. of stages ——— 11

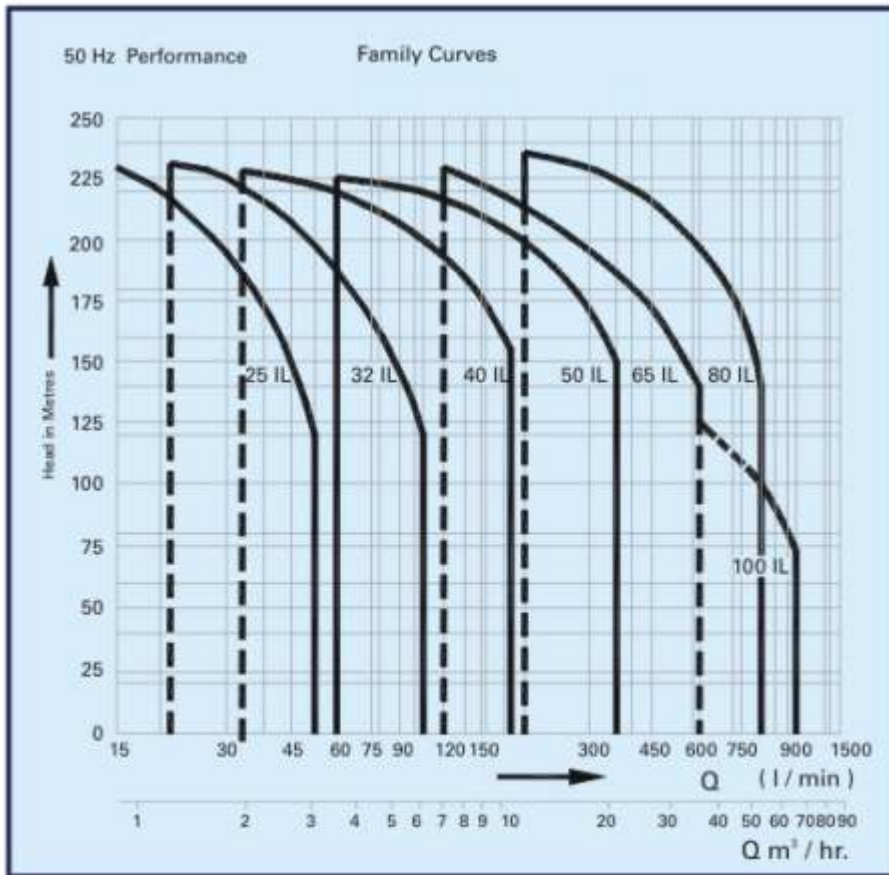
Code for Material of Construction ——— 01, 02 and 03

Kirloskar IL Pump used in an
industrial washing machine



KIRLOSKAR VERTICAL MULTISTAGE INLINE PUMPS

Family curves



Drive Ratings

Model	No of stages	Motor Rating (KW)
25 IL	01 to 03	0.37
	04 & 05	0.55
	06 & 07	0.75
	08 to 11	1.1
	13 & 15	1.5
32 IL	16 to 20	2.2
	23 & 25	03
	01 & 02	0.37
	03	0.55
	04 & 05	0.75
40 IL	06 & 07	1.1
	8 to 10	1.5
	11 to 15	2.2
	16 to 20	03
	23 & 25	04
50 IL	01 & 02	0.75
	03	1.1
	04	1.5
	05 & 06	2.2
	07 & 08	03
65 IL	09 & 10	04
	12 to 16	5.5
	18 & 20	7.5
	01	1.1
	02	2.2
80 IL	03	03
	04	04
	05 & 06	5.5
	07 & 08	7.5
	10 & 12	11
100 IL	14 & 16	15
	01	2.2
	02	5.5
	03	7.5
	04	9.3
80 IL	05	11
	06 & 07	15
	08 & 09	18.5
	10 & 11	22
	12	26
80 IL	01,01	2.2
	01	04
	02,01	5.5
	02	7.5
	03,01 & 03	11
80 IL	4,1	11
	04	15
	5,1	15
	05	18.5
	6,1	18.5
80 IL	06	22
	07,01	22
	07 to 09,01	30
	09 to 10	37
	100 IL	01
02		5.5
03		9.3
04		11
05		15
100 IL	06	18.5
	07 & 08	22
	09	26

As we are constantly endeavouring to improve the performance of our products/equipment we reserve the right to make alterations from time to time and as such our products/equipment may differ from that detailed in this publication. For latest information you may get in touch with our Regional Sales Offices.



KIRLOSKAR BROTHERS LIMITED

CORPORATE OFFICE :

Udyog Bhavan, Tilak Road, Pune - 411 002 (India)

Phone : (020) 2444 0770

Fax : (020) 2444 4198, 2444 0816

Email : kblin@kbl.co.in

Web Site : www.kbl.co.in, www.kirloskar.com

WORKS :

Kirloskarvadi 416 308. Dist. Sangli

Phone : (02346) 222301-5 Fax : (02346) 222311



Enriching Lives

Enquiries may be directed to the nearest Regional Sales Office.

Ahmedabad, Bangalore, Baroda, Bhubaneswar, Kolkata, Chennai, Jaipur,
Kochi, Lucknow, Mumbai, Nagpur, New Delhi, Pune, Ranchi,
Secunderabad.