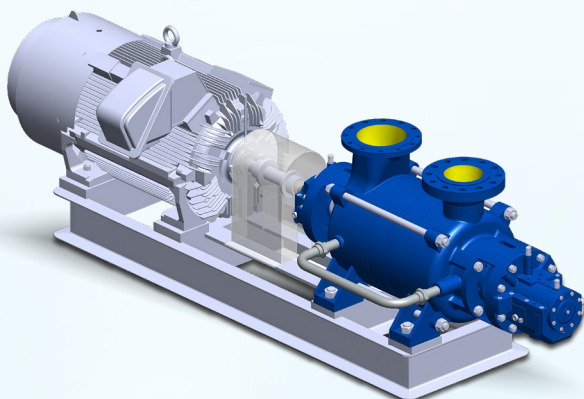




Enriching Lives

# HIGH HEAD MULTISTAGE PUMPS

## TYPE - KRO



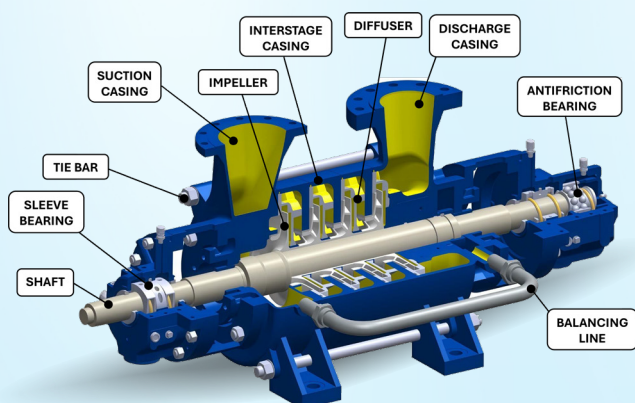
### Range:

- Delivery size : 150 to 250mm
- Capacity : 350 to 850 m<sup>3</sup>/hr
- Head : up to 800m

### Applications:

- High pressure membrane feed pump for RO Plant.

### Cut Section:



### Features:

The pump is designed to deliver optimum efficiency over wide range of flow rates.

This pump consists of a number of ring section diffusers held between suction and delivery casing with heavy duty tie-bars. Models are available to operate at 2970 rpm with 50 Hz power supply frequency.

### Casing:

Latest casting techniques ensure smoothness of hydraulic passages resulting in high efficiency and reliability under varying flow conditions. The delivery and suction flanges can be oriented top-top or left or right viewed from driving end.

### Impeller:

Impellers are enclosed, radial flow type with twisted blades to give highest efficiency. The rotating elements are statically and dynamically balanced conforming to ISO 1940-1 Gr 1. Complete rotor is dynamically balanced conforming to ISO 1940-1 Gr 2.5.

### Shaft:

The high tensile super duplex steel shaft accurately machined and ground is supported by sleeve and antifriction bearings that prevent axial movement and gives radial support. The bearings are robustly designed for min. 40000 hrs life.

### Shaft Seal:

Shaft sealing is by Mechanical seal with balance leak off connection.

### Bearing Lubrication:

Standard lubrication is oil bath type. For motor rating above 1400 kW external forced oil lubrication is offered.

### Direction of Rotation:

Standard: Clockwise viewed from driving end.

### Drive:

These pumps are suitable to couple with electric motors or IC engines directly.

### Axial Thrust Balancing:

Robust balancing disc and drum arrangement to withstand varying axial loads at different flow rates.

### Diffuser:

Designed to reduce radial load and give wide operating range with sustained efficiency.

### Flange drilling:

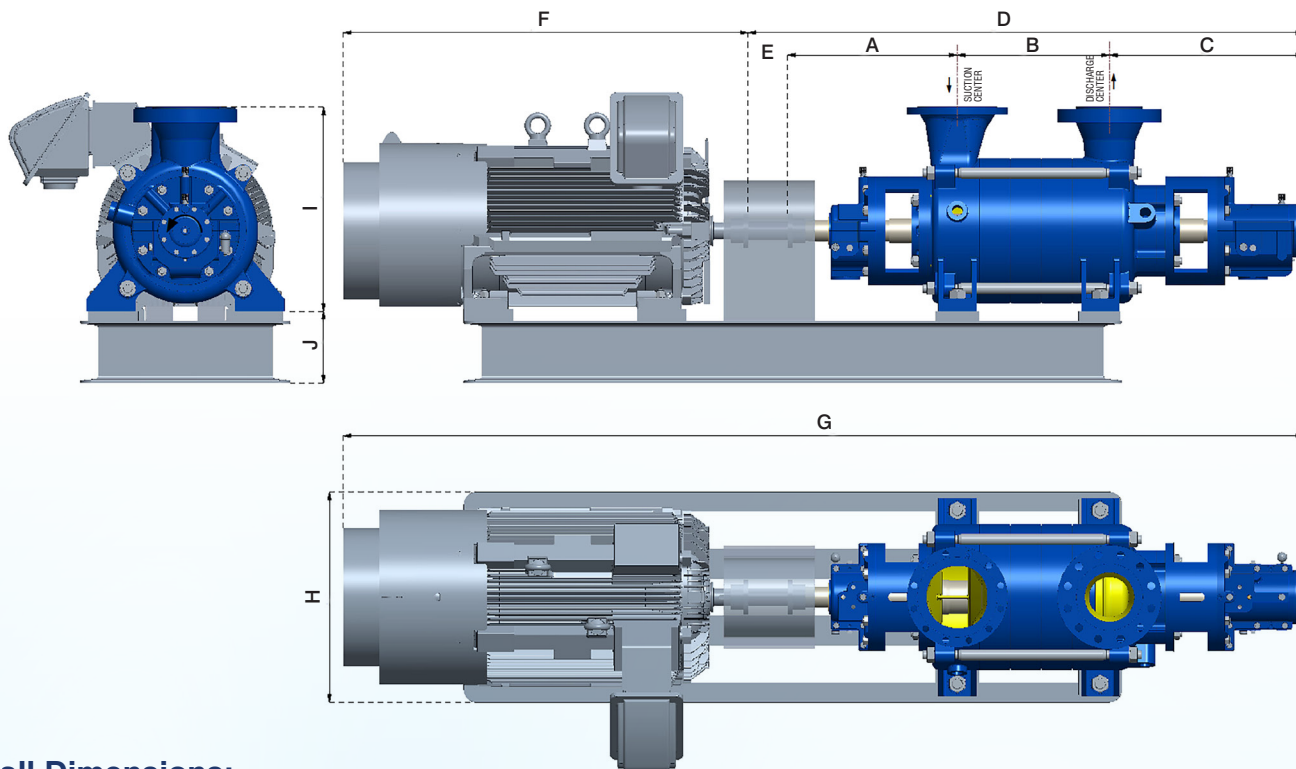
Suction: ANSI B16.5 CL 150

Delivery: ANSI B16.5 CL 600

**KIRLOSKAR BROTHERS LIMITED**

Established 1888

A Kirloskar Group Company

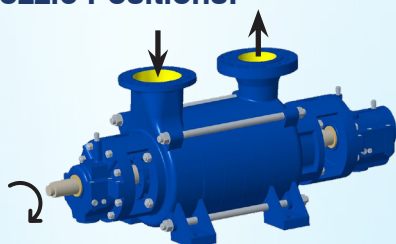


## Overall Dimensions:

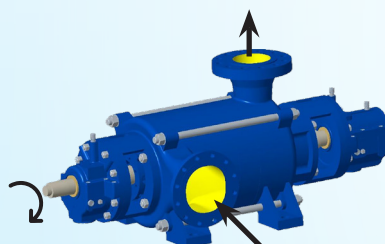
	A	B	C	D	E	F	G	H	I	J
200X150 KRO 35 5-Stage	625	650	715	1990	200	3100	5090	1000	440	250
250X200 KRO 40 4-Stage	685	615	790	2090	200	3200	5290	1200	500	250
300X250 KRO 45 3-Stage	790	545	895	2230	270	3500	5700	1400	550	250

All dimensions are in mm and may vary slightly in the actual product.

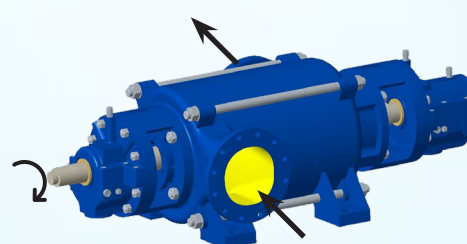
## Nozzle Positions:



TOP SUCTION-TOP DELIVERY



SIDE SUCTION-TOP DELIVERY

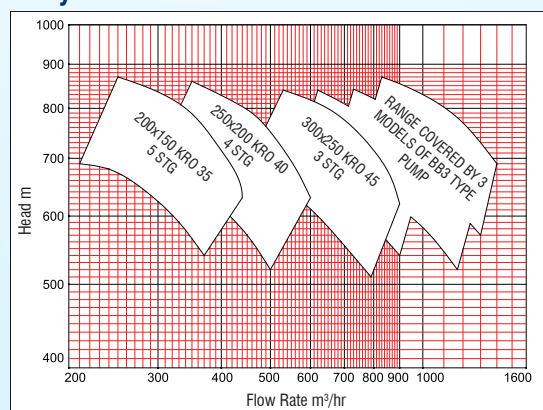


SIDE SUCTION-SIDE DELIVERY

## Material of Construction:

Casing Suction/Discharge/Stage	Super Duplex Steel
Impeller	Super Duplex Steel
Diffuser	Super Duplex Steel
Casing Wear Ring	Super Duplex Steel
Shaft	Super Duplex Steel
Shaft Sleeve	Super Duplex Steel Stellite coated
Sleeve Bearing	Babbitt metal oil lubricated

## Family Curves at 2970 RPM:



## KIRLOSKAR BROTHERS LIMITED

Established 1888

A Kirloskar Group Company

## OUR COMPANIES



BRAYBAR PUMPS (PVT) LTD  
Republic of South Africa



KARAD PROJECTS AND MOTORS LIMITED  
India



KIRLOSKAR BROTHERS (THAILAND) LIMITED  
Thailand



KIRLOSKAR CORROCOAT PRIVATE LIMITED  
India



KIRLOSKAR EBARA PUMPS LIMITED  
India



RODELTA PUMPS INTERNATIONAL B.V.  
The Netherlands



SPP PUMPS LIMITED  
United Kingdom



SYNCOFLO, INC.  
U.S.A.

## REGISTERED OFFICE & GLOBAL HEADQUARTERS

"Yamuna", S. No. 98/(3-7), Plot No. 3, Baner, Pune - 411 045, Maharashtra, India. | Toll Free: 1800-123-4443 | Phone: +91 (20) 67214444  
Email: marketing@kbl.co.in | Fax No. 020 67211060 | Website: www.kirloskarpumps.com | CIN No. L29113PN1920PLC000670

Kirloskar Brothers Limited reserve the right to make alteration from time to time and such our products / equipments may differ from that detail in this publication. For latest information you may get in touch with our Regional Sales Offices.