



# KIRLOSKAR BROTHERS LTD.

## HORIZONTAL MULTISTAGE PUMP TYPE:MLA FOR GLAND PACK OR MECHANICAL SEAL



### Description

**Range :** Delivery size up to 300 mm, Capacity up to 1000 m<sup>3</sup>/hr  
Head up to 750 m

**Applications :** Sprinkler Irrigation, Fire Fighting, Water Supply in high rise buildings, Descaling, Mine Dewatering, Booster, Service, Condensate and Boiler Feed applications, Dust Precipitation. Pumping of light chemicals, etc.

**Constructional Features :** These are single suction, horizontal shaft, high pressure multistage pumps, consisting of ring section diffuser casings bolted between suction and delivery casing. Various models are available to operate at 1450 rpm and 2900 rpm at 50 Hz and 1750 rpm and 3500 rpm at 60 Hz depending upon model.

**Casing :** The casings are of diffuser type. The delivery flange is vertical. The suction flange can be oriented left, right or vertical viewed from driving end. Smooth hydraulic passages ensure high efficiency.

**Impeller :** Impellers are of enclosed type. The rotating elements are statically and dynamically balanced. Hydraulic balancing is achieved by balancing ring and balancing disc depending upon model.

**Shaft :** The high tensile steel shaft accurately machined and ground is supported on journal bearing on both sides of impellers. Shaft in stuffing box area is protected by shaft sleeves.

**Stuffing Box :** Standard . Gland packed without cooling upto 90°C and with external cooling upto 140°C. Optional .Mechanical seal.

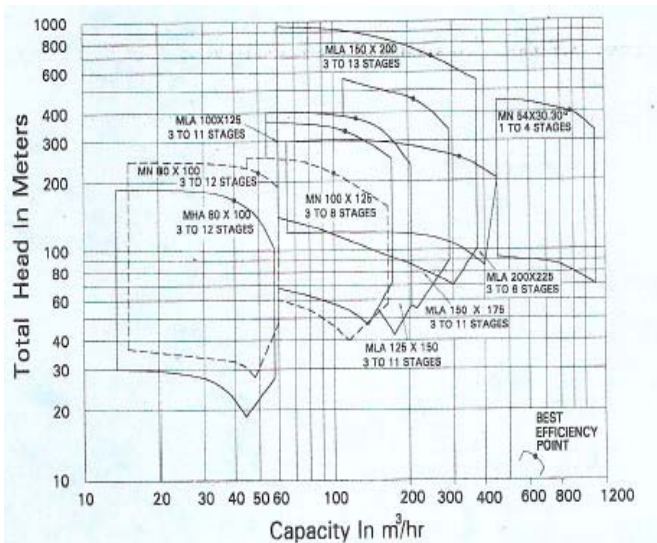
**Bearings :** Standard lubrication is with grease or with oil depending upon the model. For liquid temperatures above 90°C generally oil lubrication is provided with oil level indicator on request.

**Direction of Rotation :** Standard . Clockwise when viewed from driving end. Optional . Anticlockwise when viewed from driving end.

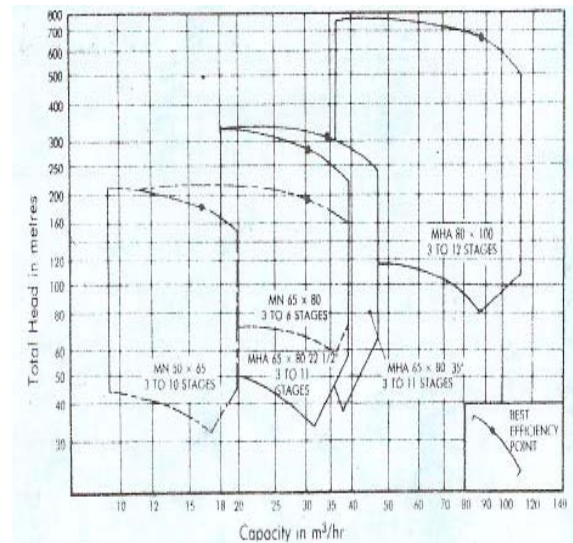
**Drive :** The pumps are suitable for coupling with electric motors, I.C. Engines directly or through belt drives.

**Flanges :** Standard drilling to BS-10 Table D/E/F/H depending upon model. Optional drilling to IS / ASA / DIN also available.

### Family Curve of Multistage Pumps at 1450 rpm - 50 Hz



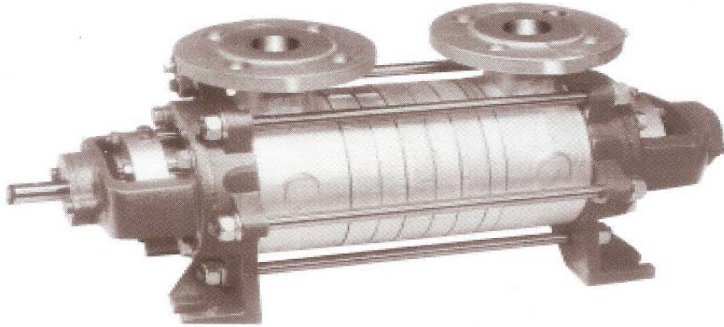
### Family Curve of Multistage Pumps at 2900 rpm - 50 Hz



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# KIRLOSKAR BROTHERS LTD.



## Description

### Range :

Delivery size	25 mm to 50 mm
Capacity up to	20 m <sup>3</sup> /hr. (Max)
Head up to	315 m (Max)
Temperature	-40°C to 90°C 90°C to 120°C (with Stuffing Box Cooling)
Working Pressure	40 Bar

### Application :

CF pumps are self priming, side channel multistage pumps capable to handle gaseous liquids. CF pumps find usage in many areas like

- Chemical and Process Industry
- Booster Service
- Air Conditioning and Refrigeration Installations.
- Boiler Feed Duties.
- LPG and other Petroleum Products.
- Ship/Naval Engineering.
- Liquid with Gas up to 30%
- Domestic Purpose.

### Constructional features :

CF pumps are self priming type owing to its regenerative type impellers design. These pumps are capable to handle liquid and gas mixture. Low NPSHR values permit high suction lift or operation close to evaporation temperature. The design of the pump is suitable for operating speed upto 1750 rpm (max).

### Pump Casing :

These pumps are of modular construction and consist of radially split section, such as Suction, Delivery & Interstage Side Channel Discs. Sealing is by means of radial gaskets.

### Impeller :

Impellers are made of investment Cast Stainless Steel. These are regenerative type open impellers with very close tolerances and high degree of finish.

### Pump Shaft :

The pump shaft is designed for heavy duty conditions and is supported by two grease lubricated antifriction bearings at drive and non drive end.

### Stuffing Box :

Standard supply is gland packed stuffing box. Optionally pumps can be supplied with mechanical seal also.

### Bearings :

The bearings are permanently packed grease lubricated.

### Direction of Rotation :

Clockwise when viewed from driving end.

### Drive :

Pump can be driven by Electric Motor or by engine.

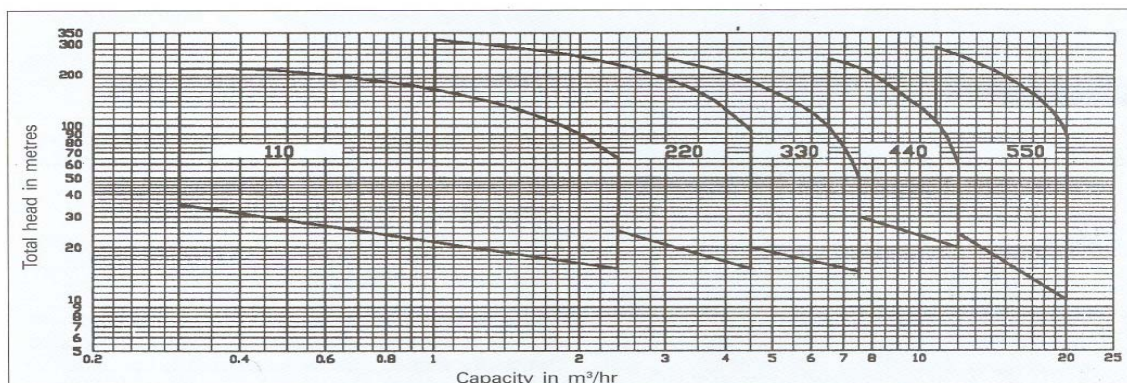
### Flanges :

Standard : DIN 2501 PN 40

### Material of Construction :

Standard pump is available in C.I. Casings with Stainless Steel impellers. Also available in all Stainless Steel construction.

**Family Curve of CF Pump at 1450 rpm**



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