

MULTI STAGE PUMP FIGURE MSC-590



Manufactured by :

FLOWMORE PRIVATE LIMITED

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**FLOWMORE
PUMPS**

An ISO 9001 Company

- A TRUSTED NAME IN PUMPS

FLOWMORE MULTI-STAGE PUMP FIGURE MSC 590

DESCRIPTION :

FLOWMORE pump's modern design is Robust and Energy Efficient which ensures extended life at Low Cost.

Range:

Delivery size up to 300 mm
Capacity up to 15000 LPM
Head up to 540 meters
Available in horizontal and vertical shaft execution.

Application:

Pumps are suitable for Hilly area water supply, Water works, Irrigation projects, Booster Service, condensate transfer, fire fighting, sprinkler system, Boiler feed, mine drainage, reverse osmosis, high rise building water supply etc. for liquids having temperature range of (-)10°C to 85°C.

Construction Features:

These are multistage, single suction, horizontal shaft pumps. They are made as per Indian Standards. Models are available to operate at 1450 RPM and 2900 RPM at 50 Hz and 1750 RPM and 3500 RPM at 60 Hz.

1. Suction & delivery covers:

Incorporates suction and delivery branches and have pump support feet integral to these.

2. Impeller:

Enclosed type and accurately balanced dynamically.

3. Diffusers:

Diffusers comprise vanes which guide liquid from exit of one stage to entry of next stage. These are cast separate to middle body.

4. Middle body:

Middle body houses the diffuser and provides pressure casing to intermediate stages.

AUTOMATIC BALANCE VALVE

The balancing valve is a simple device which counteracts hydraulic thrust and improves the overall efficiency of the pump at any flow by:

- Minimizing friction loss and wear caused by end thrust.
- Reducing wear at the shaft sleeves and gland packing by maintaining low pressure in both packing boxes.
- Eliminating the need for a grease or oil lubricated thrust bearing

In the operation of balance valve, full delivery pressure from the final stage is applied to the pressure chamber easing the valve from the seating and allowing water to pass into the chamber.

The valve runs on a film of water at all times and the hydraulic balancing is fully automatic and completely self adjusting.

5. Stuffing box:

Extra deep design and features a gland to simplify replacement of gland packing. All pumps have liquid sealed stuffing box and provision for an external supply of clean fluid. A choice of various mechanical seals is available to suit specific specifications.

6. Shaft:

Machined from high quality steel, the shaft is sturdily designed to minimize deflection and provide long reliable service. The shaft is supported by antifriction bearings. Shaft is protected by sleeve from wear in stuffing box area.

7. Automatic balancing valve:

Some of our designs incorporates combined balance valve arrangement to take care of axial thrust.

8. Bearings:

Two heavy duty, single row, antifriction bearings are provided to ensure long, trouble - free life. Each bearing is protected by cast iron cover and deflector. Grease lubrication is standard. Oil lubrication against requirement can be offered.

9. Body bolts:

All the stages are held together by high tensile steel bolts between two end covers.

Direction of rotation:

CCW viewed from driving end.

Drive:

Suitable for coupling with electric motors, I.C. engines or turbines directly or through belt drive.

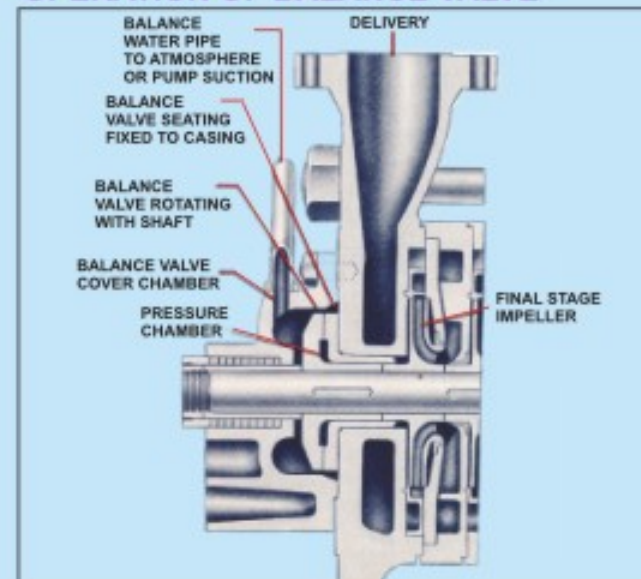
Quality:

Our quality management system conforms to ISO-9001-2000.

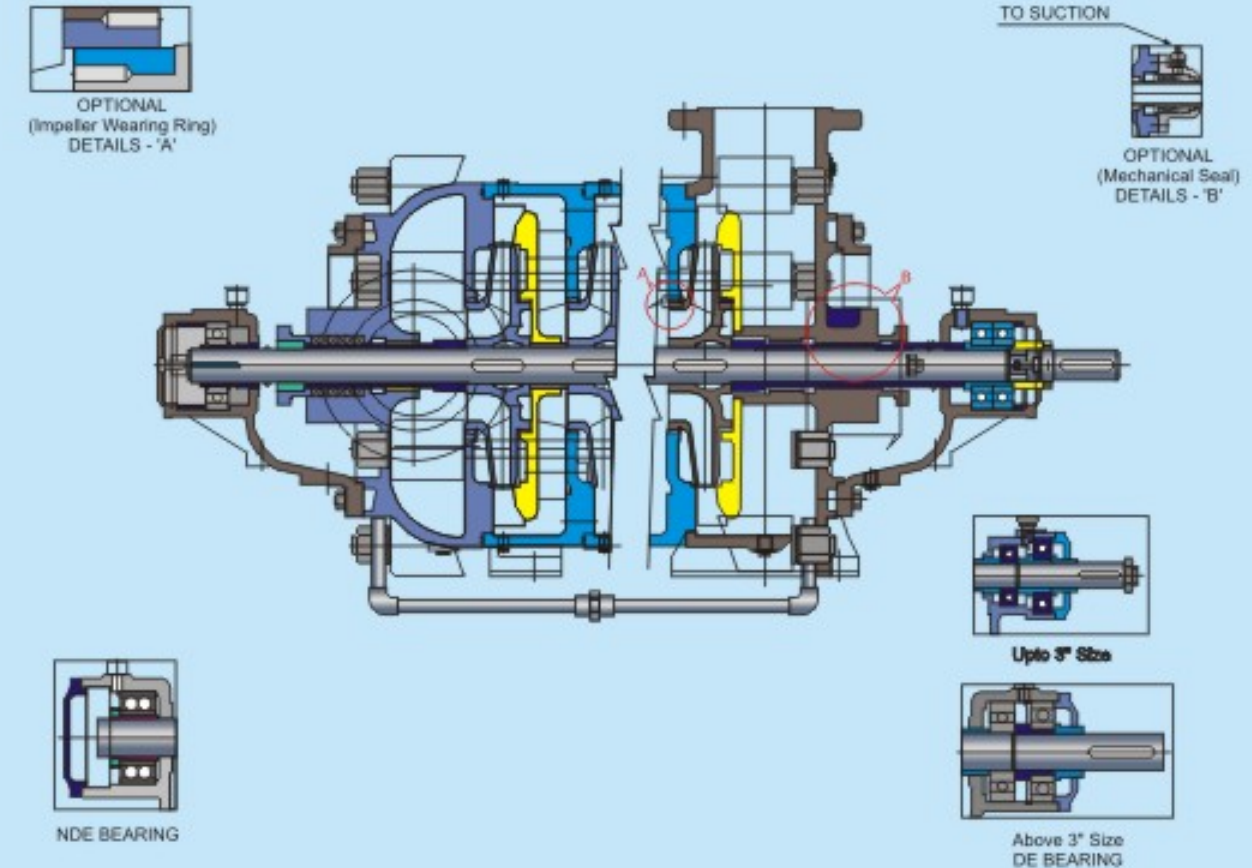
Options:

Mechanical seals in place of gland packing, Any combination of materials of construction for various components are available.

OPERATION OF BALANCE VALVE



(A) PUMP WITHOUT BALANCE VALVE



(A) PUMP WITH BALANCE VALVE

