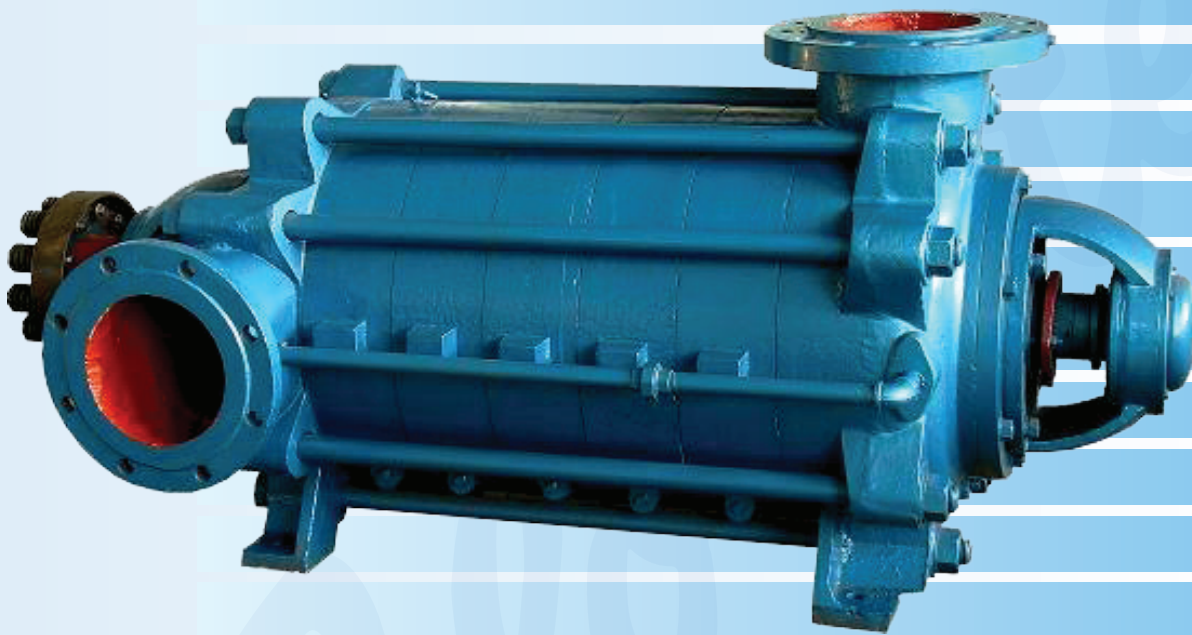




## MULTI-STAGE HIGH PRESSURE MODEL MS & MS-N (AS PER API 610)



### APPLICATIONS

- Firefighting
- Mine Dewatering
- Solvents
- Booster Services
- Offshore Industries
- LPG Filling / Service
- Boiler Feed
- Chemicals
- Power
- Nuclear Plants
- Thermal Plants
- Pressure Boosting

### TECHNICAL DATA

- Size : up to 150 mm suction
- Capacity : up to 3300 LPM (200 m<sup>3</sup>/hr)
- Head : up to 250 mts.
- Material : C.I. / C.S. / Bronze / SS-304 & 316

Multi-stage centrifugal pumps with diffuser, designed for high pressures.

MULTI-STAGE HIGH PRESSURE

## DESIGN

The design of Flo-rite High Pressure Multi-Stage pumps type 'MS' is the result of many years of experience in the application for High Pressure services-and guarantees High Hydraulic Efficiency, trouble-free long life, and low running costs.

This Multi-Stage Pump consists of identical intermediate sections in which run the impellers. The liquid handled, leaving first impeller is guided without loss of pressure through diffusers and enters the eye of the next impeller, thus raising the pressure of liquid as it passes through every stage, till reaching the delivery casing.

The complete Rotor Assembly is **MECHANICALLY AND HYDRAULICALLY BALANCED** and no balance disc is required for compensating the axial thrust.

Pumps of standard design are suitable for temperatures up to 100° C (212° F). Special designs are available for higher working liquid temperatures.

## CONSTRUCTION

MATERIAL:	Normally the Pump Casing, Impeller Diffusers and Diffuser Plates are of close grained cast iron, Shaft of high tensile steel, and Impeller Wear Rings and Shaft Protecting Sleeves of gun metal. <b>HOWEVER, THESE PUMPS CAN ALSO BE SUPPLIED COMPLETE IN BRONZE, STAINLESS STEEL, ALLOY-20 AND SPECIAL ALLOYS FOR CORROSION.</b> The Base Plate when supplied, is strongly constructed of fabricated mild steel.
BRANCHES:	When seen from the driven end of the shaft, the Suction Branch is horizontally to the left and Discharge Branch is vertically upwards.
BEARINGS:	The pumps are provided with ball bearings on the Suction End, and deep groove thrust bearings on the Delivery End.
STUFFING BOX:	In the normal design, the pumps are fitted with deep stuffing boxes which are easily accessible and are suitable for handling liquids up to temperature of 100°C. However, for services higher than 100°C, a special design of Stuffing Boxes can be provided.
DRIVE:	The direction of the rotation of the pump is clockwise, when viewed from the Drive End.

## SPECIAL FEATURES:

- Shaft sealing by packing or mechanical seals
- Can be provided in vertical & self priming configurations
- Class 300 flanges available on request
- Hydraulic balancing by means of balancing disc
- Can be supplied conforming to API 610 specifications (up to 8th edition)

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