

# MP<sub>x</sub> ISO FLO

## HORIZONTAL PROCESS PUMPS

ACCORDING DIN 24256 / ISO 2858 / ISO 5199

### Range :

Delivery size up to	200 mm
Capacity up to	750 m <sup>3</sup> /hr.
Heads up to	155 meters
Working pressures up to	26 kg/cm <sup>2</sup>
Temperatures	-35°C to +350°C

### Applications :

Process Industries, petro-chemical, nuclear, refinery, fertilizer, paper etc. and power plants. Pumps suitable for handling corrosive acids, alkalies, salt solutions, caustics, hydro carbons, oils thermic fluids, liquified gases, condensates, viscous liquids, etc.

### Constructional features :

Pumps are as per **DIN 24256 / ISO 2858 / ISO 5199** and generally conform to **API 610 (7th EDITION)** the design is of back pull out type. Large variety of models are available to operate at 1450 rpm and 2900 rpm at 50 Hz. and 1750 rpm and 3500 rpm at 60 Hz.

### Casing :

The casing has axial suction and top center line delivery. Smooth hydrolic passages ensure high efficiency. Normal design is for foot mounted pumps. Center line mounting for special applications are also available.

### Impeller :

The impellers are of enclosed type and semi-open impellers can also be supplied. Hydraulic balancing of impellers is achieved either by back vanes or by balancing holes. The impellers are statically and dynamically balanced. Reliable fixing of the impeller on the shaft is achieved by using helical insert under the impeller nut. To improve NPSH performance, an inducer can be supplied.

### Shaft :

The shaft is supported by two antifriction bearings to take residual axial thrust and prevent axial float or radial runout. It is fully protected from the handled liquid by means of a shaft sleeve and PTFE gaskets between the impeller nut, impeller hub and shaft sleeve.

### Stuffing box :

The stuffing box is sealed by gland packing or by mechanical seal. Conversion from gland packing to mechanical seal is achieved by changing some standardised parts. Re-machining of stuffing box is not necessary. Stuffing box cooling is provided for high temperature applications.

### Bearings :

The bearings are oil lubricated. For high temperature applications, bearing oil cooling arrangement is provided.

### Direction of rotation :

Clockwise viewed from driving end

### Drive :

Pumps can be driven by electric motor or engine.

### Flanges :

Standard	Optional
Drilling as per ND 16	DIN ND 10, ND25
DIN 2533 (Cast Iron- Raised face)	ASA 150 BS-1- Table F
Din 2543 (Steel-Plain face)	Bs 4504- 16bar or 25 bar

