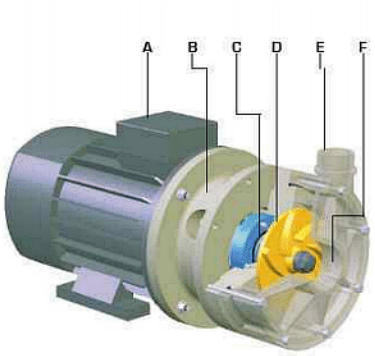
Description

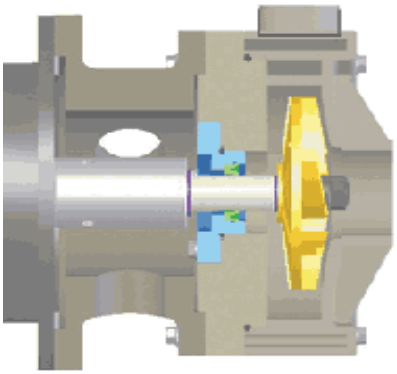
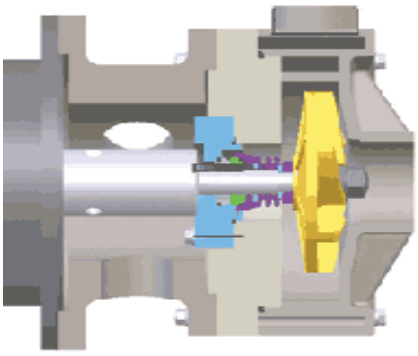
B = Inspection lantern
D = Impeller
F = Intake duct



A = Electric motor
C = Mechanical seal
E = Delivery duct

The horizontal centrifugal pumps in resin are made up of a sturdy body and a lantern for fixing the electric motor and inspection of the mechanical seal. The pump's shaft, on which the open rotor is fixed, is integral with the shaft of the electric motor. The mechanical seal of the the shaft is housed on the back of the rotor.

Two versions are available with different internal mechanical seals according to the service:

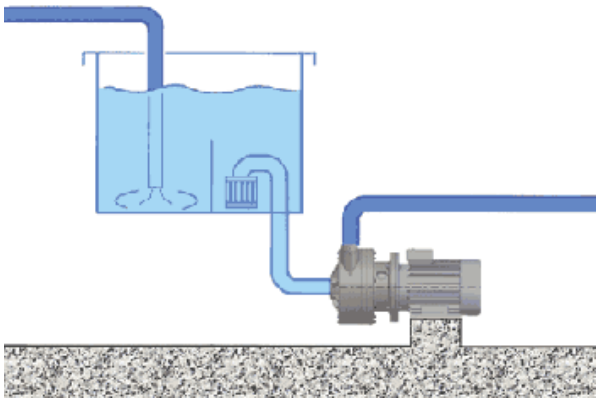
 TL = LIP SEAL **(in polymer): for light services**	 **TS = BELLOW SEAL** (in PTFE with silicon carbide and ceramic rings): for more severe services and with very dirty fluids

Principle of operation

The rotor, integral with the shaft and the electric motor, mounted in direct drive, is rotated at a pre-set speed creating, due to a centrifugal effect, intake on the central duct and delivery on the peripheral duct.

Technical data of the MB horizontal centrifugal pumps									
Version	MB 80	MB 100	MB 110	MB 120	MB 130	MB 140	MB 150	MB 155	MB 160
Suction Ø (in inches)	G 1 1/2 f	G 1 1/2 f	G 2 m	G 2 m	G 2 m	G 2 m	G 2 1/2 f	G 2 1/2 f	G 2 1/2 f
Delivery Ø (in inches)	G 1 m	G 1 m	G 1 1/2 m	G 1 1/2 m	G 1 1/2 m	G 1 1/2 m	G 2 m	G 2 m	G 2 m
Max temperature PP	60ºC	60ºC	60ºC	60ºC	60ºC	60ºC	60ºC	60ºC	60ºC
Max temperature PVDF	90ºC	90ºC	90ºC	90ºC	90ºC	90ºC	90ºC	90ºC	90ºC
Max delivery (m^3/h)	6	10	20	25	30	40	42	45	55
Max head (m)	6	10	16	18	19	21	25	31	34
Materials	PP - ECTFE - PVDF	PP - ECTFE - PVDF	PP - ECTFE - PVDF	PP - ECTFE - PVDF	PP - ECTFE - PVDF	PP - ECTFE - PVDF	PP - ECTFE - PVDF	PP - ECTFE - PVDF	PP - ECTFE - PVDF
Motor	0,37 kW - 0,5 HP	0,55 kW - 0,75 HP	1,1 kW - 1,5 HP	1,5 kW - 2 HP	2,2 kW - 3 HP	3 kW - 4 HP	4 kW - 5,5 HP	5,5 kW - 7,5 HP	7,5 kW - 10 HP

Installation example



The horizontal centrifugal pumps must only be installed with the axis positioned horizontally in positive suction head. Suitable devices must be used to avoid dry operation, the formation of vortexes and the possible intake of air. The horizontal centrifugal pumps must only operate when the pump is FLOODED; operation when dry or with air bubbles causes damage to the mechanical seal.

Chemical compatibility

The type of fluid, the temperature and the area of use are all influencing factors in determining the choice of materials for the dampener and their correct chemical compatibility. The following table is shown here below as an example related to some of the more commonly used substances.

Materials	PP	PVDF ECTFE Halar ®	EPDM Dutral ®	FPM Vyton ®
Acetaldehide	A1	D	A	D
Acetamide	A1	C	A	B
Vinyl acetate	B1	A2	B2	A1
Acetylene	A1	A	A	A
Vinegar	A	B	A	A
Acetone	A	D	A	D
Fat acids	A	A	D	A

Chemical compatibility:
A = excellent
B = good
C = slight, not recommended
D = serious attack, not recommended
--- = not available
1 = up to 22°C
2 = up to 48°C