

HORIZONTAL CENTRIFUGAL PUMPS

MB Debem manufactured resin-encased horizontal centrifugal pumps are pumps operated by a direct-drive motor (max 3000 rpm) for fast fluid transfer and/or drainage with flow rates ranging from 6 to 75 m³/h.

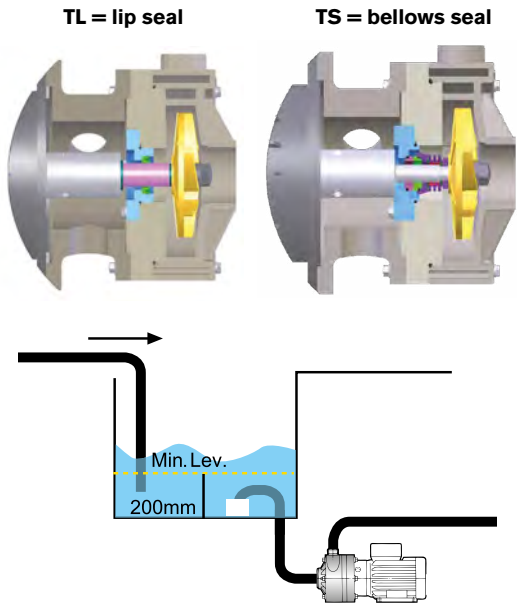
MB COMPOSITION CODES

ex. **MB080P-TLVN**
MB 80 in PP +Viton lip seal + Three-phase motor

MB080	P -	TLV	N
PUMP MODEL	PUMP MATERIAL	TYPE OF SEAL	MOTOR
MB 080 - MB 80 MB 100 - MB 100 MB 110 - MB 110 MB 120 - MB 120 MB 130 - MB 130 MB 140 - MB 140 MB 150 - MB 150 MB 155 - MB 155 MB 160 - MB 160 MB 180 - MB 180	P - polypropylene FC - PVDF+CF	TLV - Viton lip seal TLD - EPDM lip seal TSV - Viton bellows seal TSD - EPDM bellows seal	N* - Three-phase motor M - Single-phase motor A - ATEX motor

* Standard motor is the three-phase induction type with European voltage (2-pole) 50Hz

Their special open-impeller design allows pumping even with very dirty liquids having apparent viscosity up to 500 cps (at 20°C) and small suspended solids. There are two versions available with different internal mechanical seal depending on use, TL (lip seal) and TS (bellows seal).



HOW IT WORKS

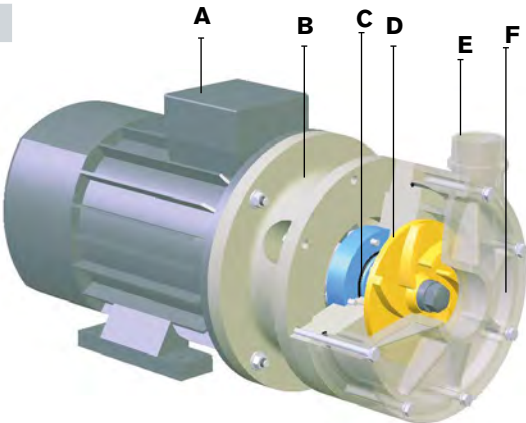
The impeller is integral with the shaft and direct-drive electric motor and is rotated at a preset speed with the centrifugal effect producing suction on the intake side and discharge on the delivery side.

- A** = electric motor
B = inspection lantern
C = mechanical seal
D = impeller
E = delivery duct
F = intake duct

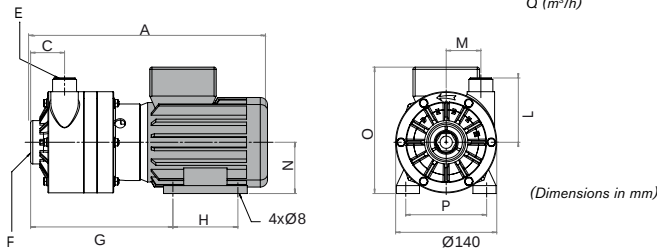
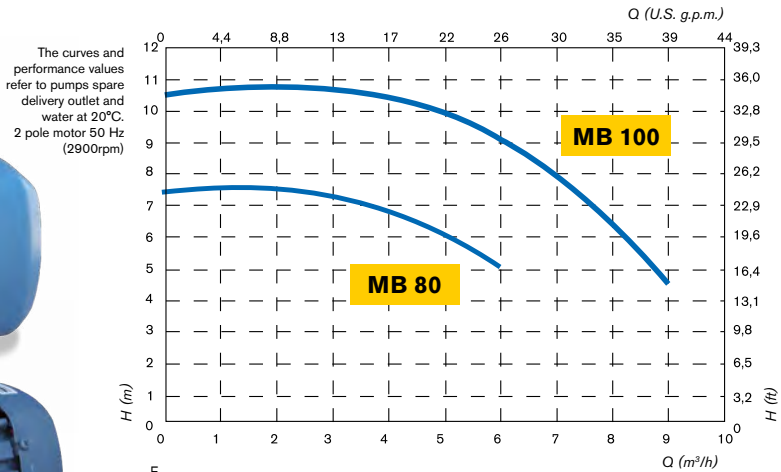
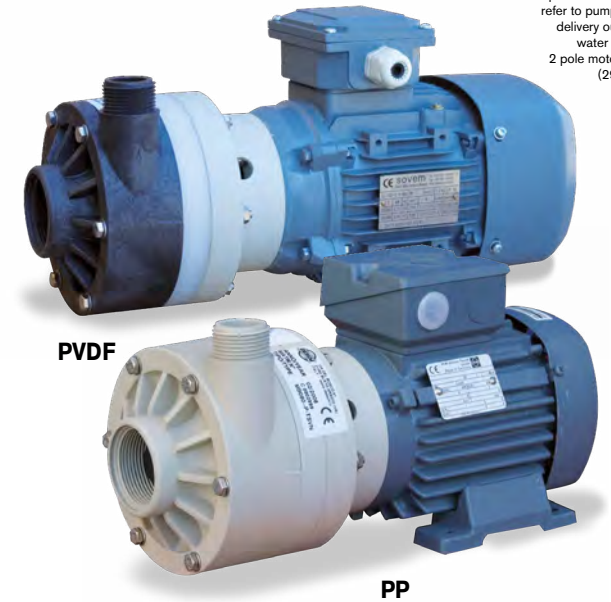
MAIN FEATURES

- Available in polypropylene, PVDF
- Positive suction head operation
- Weldless
- Mechanical bellows or lip seal
- Usable even with extremely dirty liquids
- Flow rates: from 6 to 75 m³/h
- Head: up to 38 mt
- Quick and easy maintenance
- Inexpensive spares
- Viscosity: up to 500 cps
- European voltage motors:
IP55 - F Class - 2-pole - 50 Hz - three-phase
single phase from 0,55 kw to 2,2 kw - 50/60 Hz

Max. operating temperature:
PP min +3°C/max +65°C
PVDF min +3°C/max +95°C

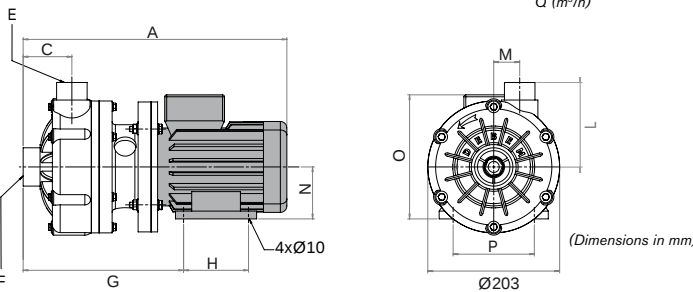
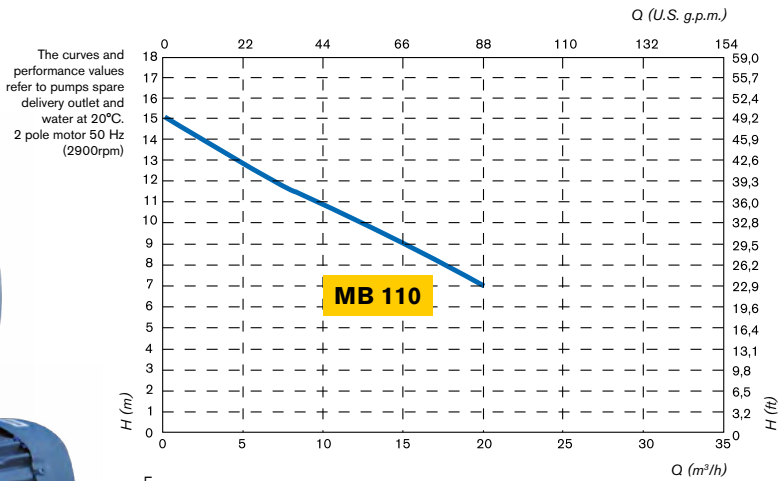
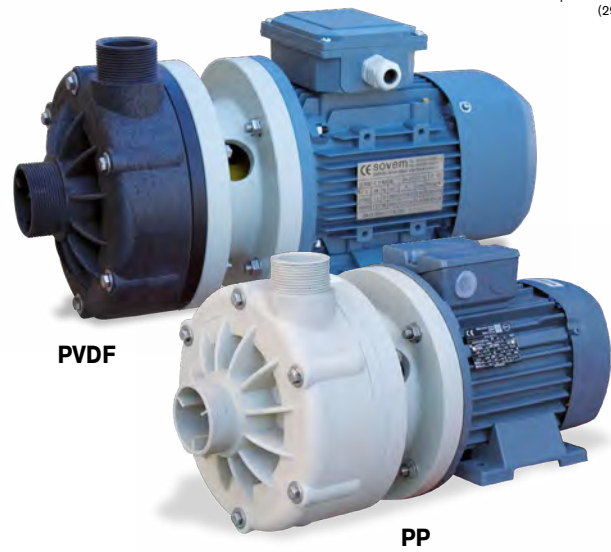


MB 80/100



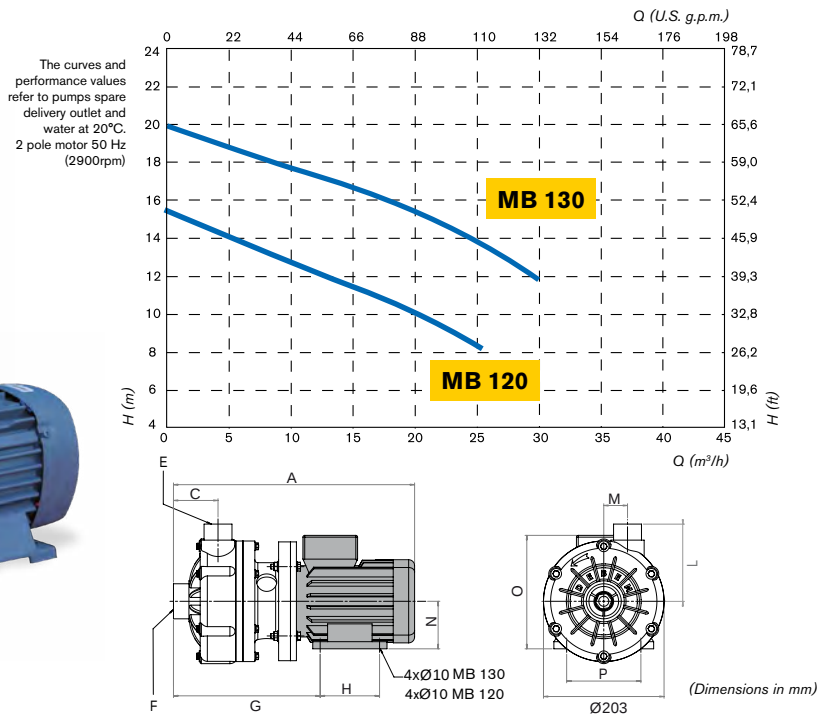
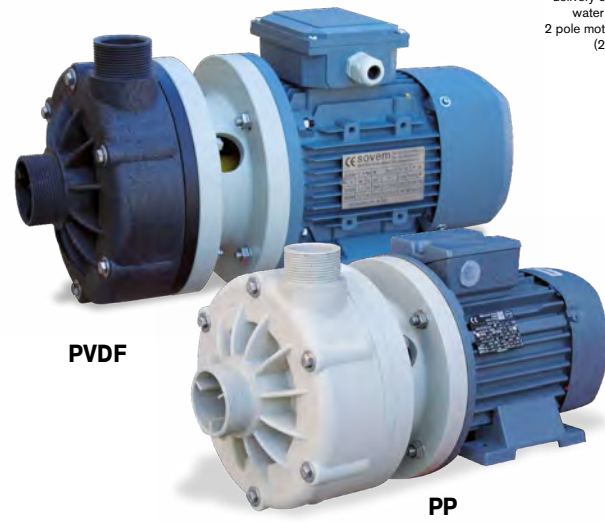
MODEL	SEAL	POWER	Ø PASSING SOLIDS	A	C	E	F	G	H	L	M	N	O	P	KG PP	KG PVDF
MB80	TL-TS	0.37 Kw 0.5 HP	5	328	47	G 1" M o DN25	G 1" 1/2 f o DN 40	197	90	89	48	71	175	112	8,5	9,5
MB100	TL-TS	0.55 Kw 0.75 HP	7	328	47	G 1" M o DN25	G 1" 1/2 f o DN 40	197	90	89	48	71	175	112	8,5	9,5

MB 110



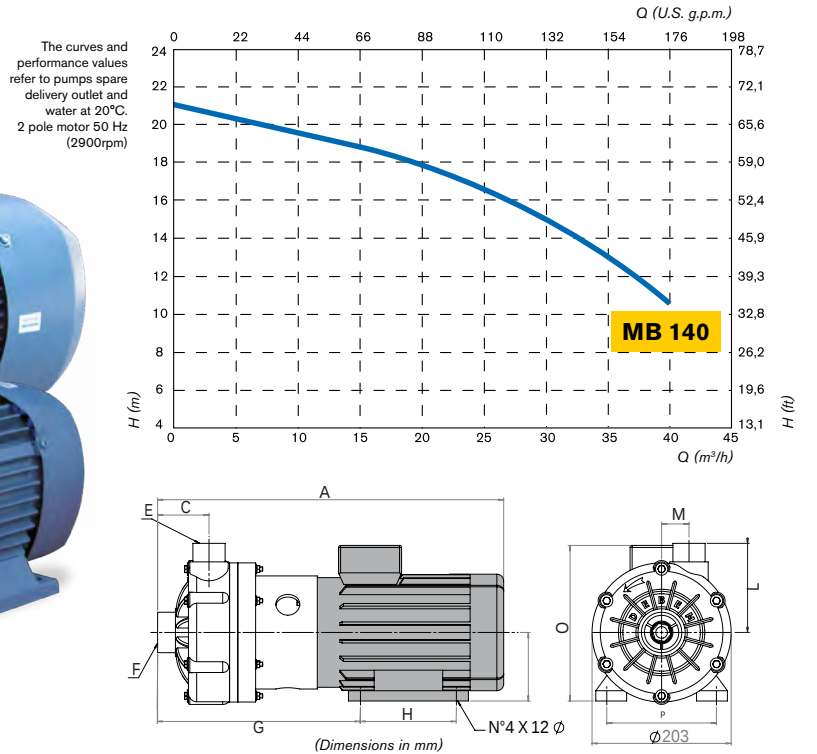
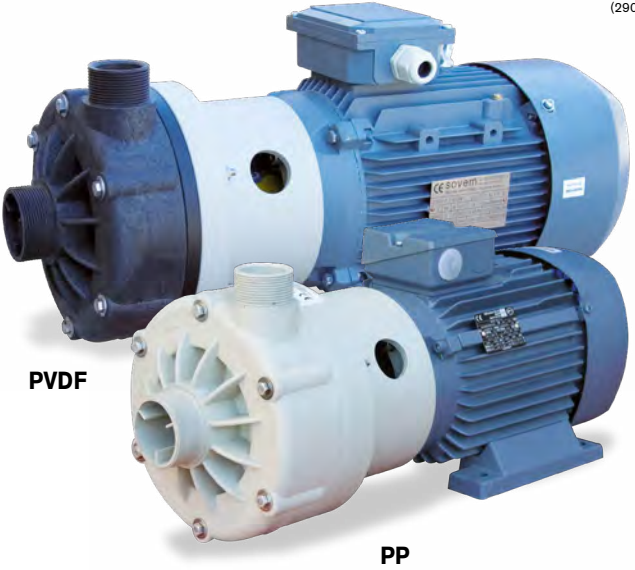
MODEL	SEAL	POWER	Ø PASSING SOLIDS	A	C	E	F	G	H	L	M	N	O	P	KG PP	KG PVDF
MB110	TL-TS	1.1 Kw 1.5 HP	2	406	75	G 1" 1/2 M o DN40	G 2" M o DN50	247	100	130	40	80	191	125	16	17

MB 120/130



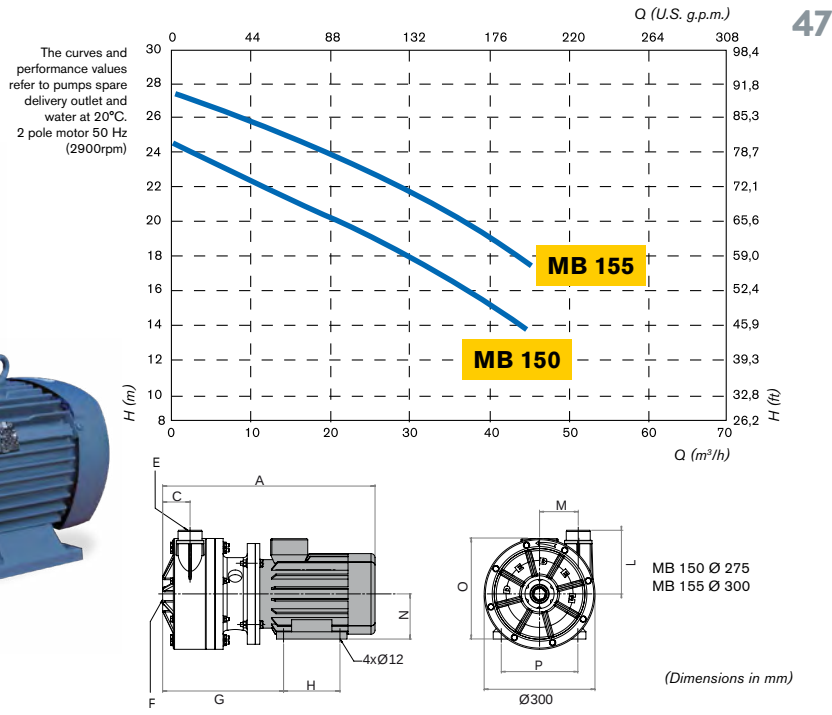
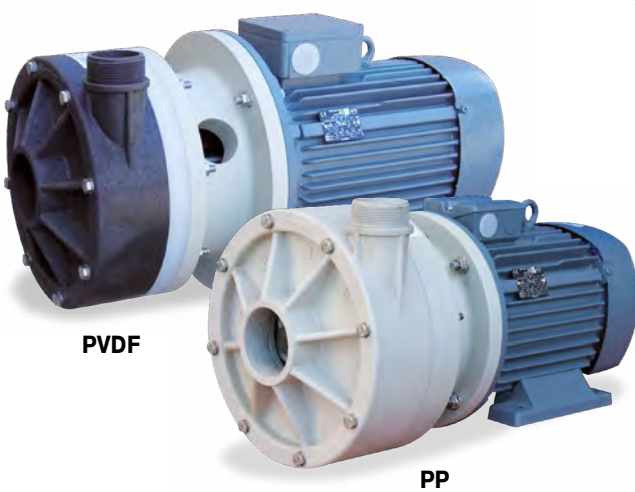
MODEL	SEAL	POWER	Ø PASSING SOLIDS	A	C	E	F	G	H	L	M	N	O	P	KG PP	KG PVDF
MB120	TL-TS	1.5 Kw 2 HP	6	426	75	G 1" 1/2 M o DN40	G 2" M o DN50	257	100	130	40	90	210	140	16	17
MB130	TL-TS	2.2 Kw 3 HP	6	448	75	G 1" 1/2 M o DN40	G 2" M o DN50	257	125	130	40	90	210	140	22,5	23,5

MB 140



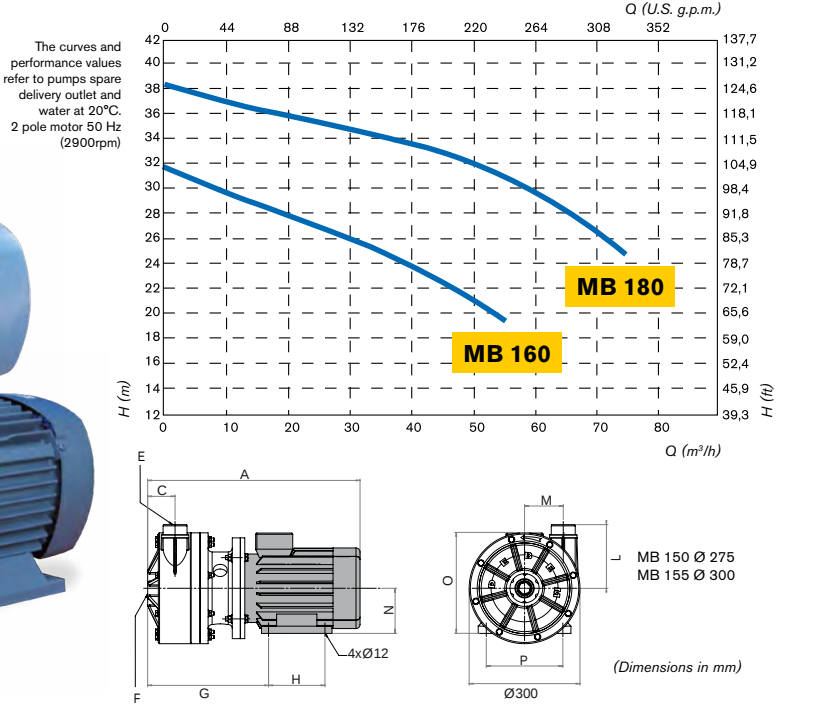
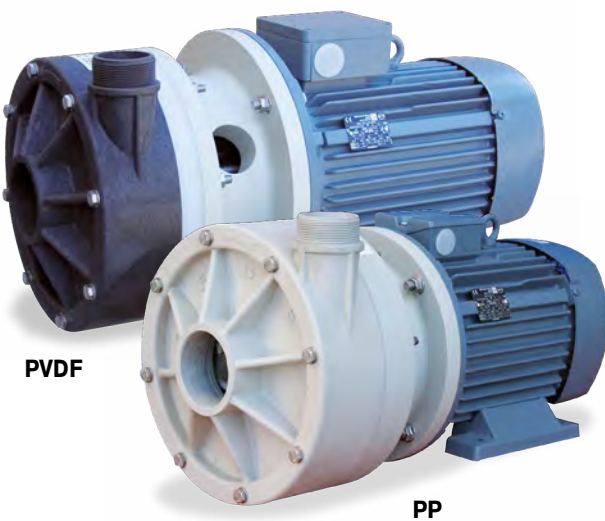
MODEL	SEAL	POWER	Ø PASSING SOLIDS	A	C	E	F	G	H	L	M	N	O	P	KG PP	KG PVDF
MB140	TL-TS	3 Kw 4 HP	12	505	75	G 1" 1/2 M o DN40	G 2" M o DN50	296	140	130	40	100	227	160	29	30

MB 150/155



MODEL	SEAL	POWER	Ø PASSING SOLIDS	A	C	E	F	G	H	L	M	N	O	P	KG PP	KG PVDF
MB150	TL-TS	4 Kw 5.5 HP	2	527	68	G 2" M o DN50	G 2" 1/2 F o DN65	300	140	158	96	112	249	190	44	47
MB155	TL-TS	5.5 Kw 7.5 HP	3	619	68	G 2" M o DN50	G 2" 1/2 F o DN65	329	140	158	96	132	312	216	60	63

MB 160/180



MODEL	SEAL	POWER	Ø PASSING SOLIDS	A	C	E	F	G	H	L	M	N	O	P	KG PP	KG PVDF
MB160	TL-TS	7.5 Kw 10 HP	9	645	68	G 2" M o DN50	G 2" 1/2 F o DN65	335	140	158	96	132	310	216	70	73
MB180	TL-TS	11 Kw 15 HP	9	695	68	G 2" M o DN50	G 2" 1/2 F o DN65	335	178	158	96	132	310	216	96	99