

# MB 110



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**DEBEM**  
MADE IN ITALY

## HORIZONTAL CENTRIFUGAL PUMPS

Product designed and constructed in Italy

Constructed in polypropylene or PVDF

Under head use

Weld-free

Usable with fluids containing suspended solids

Extremely easy to maintain

Suitable for continuous use

Available with:

- Mechanical bellows seal (new generation "Self-locking" system)

Aisi 304 spring - Seal ring in SILICON CARBIDE + CERAMIC / SILICON CARBIDE + SILICON CARBIDE

- Lip seal: VITON® or EPDM



## MB PUMPS CODES ENCODING

ex. MB080--P-TLVN

MB 80 PP, Viton® lip seal, three-phase motor.

| MB80                                                                                                                                                                                     | P                                 | TLV                                                                                                  | N                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| PUMP MODEL                                                                                                                                                                               | PUMP PUMP                         | TYPE OF SEAL                                                                                         | MOTOR                                                              |
| MB 80 - MB 80<br>MB 100 - MB 100<br>MB 110 - MB 110<br>MB 120 - MB 120<br>MB 130 - MB 130<br>MB 140 - MB 140<br>MB 150 - MB 150<br>MB 155 - MB 155<br>MB 160 - MB 160<br>MB 180 - MB 180 | P - Polypropylene<br>FC - PVDF+CF | TLV - Viton® lip seal<br>TLD - EPDM lip seal<br>TSV - Viton® bellows seal<br>TSD - EPDM bellows seal | N* - Three-phase motor<br>M - Single-phase motor<br>A - ATEX motor |

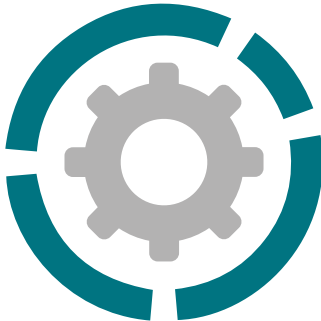
\* Three-phase asynchronous eurotension motor fitted as standard (2 poles) 50Hz

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## HORIZONTAL CENTRIFUGAL PUMPS



### Specifications and types



|                        |                      |
|------------------------|----------------------|
| Suction fittings       | G 2" m or DN 50      |
| Delivery fittings      | G 1 1/2 m or DN 40   |
| Max flow rate          | 20 m <sup>3</sup> /h |
| Max head               | 15 m                 |
| Viscosity up to        | 500 cps              |
| Standard open impeller | Ø 130 mm H 4 mm *    |
| Passing solids         | Ø max 2 mm           |

\* Special versions are available on request for the fluid pumped

PP



#### Pump casing construction material, operating temperature and net weight

|                                     |              |
|-------------------------------------|--------------|
| Polypropylene (with glass additive) | 3.4 Kg*      |
|                                     | Max 3°C min. |
|                                     | 65°C max     |
| PVDF (with carbon additive)         | 4.3 Kg*      |
|                                     | Max 3°C min. |
|                                     | 95°C max     |

\* The weights refer to the pump without the motor

#### Standard electric motor:

|                                  |            |
|----------------------------------|------------|
| Kw                               | 1.1        |
| HP                               | 1.5        |
| Box                              | B3 + B5    |
| RPM                              | 2900       |
| THREE-PHASE 230/400 V            |            |
| 50/60 Hz                         |            |
| 2 poles                          |            |
| Efficiency class                 | IE3        |
| IP55 protection rating           |            |
| Ambient temperature -30°C + 45°C |            |
| Aluminium/Cast iron              |            |
| SINGLE-PHASE                     | on request |
| ATEX                             | on request |

PVDF



#### MAIN APPLICATION SECTORS



AUTOMOTIVE



CHEMICAL INDUSTRY



WATER AND SLUDGE  
TREATMENT



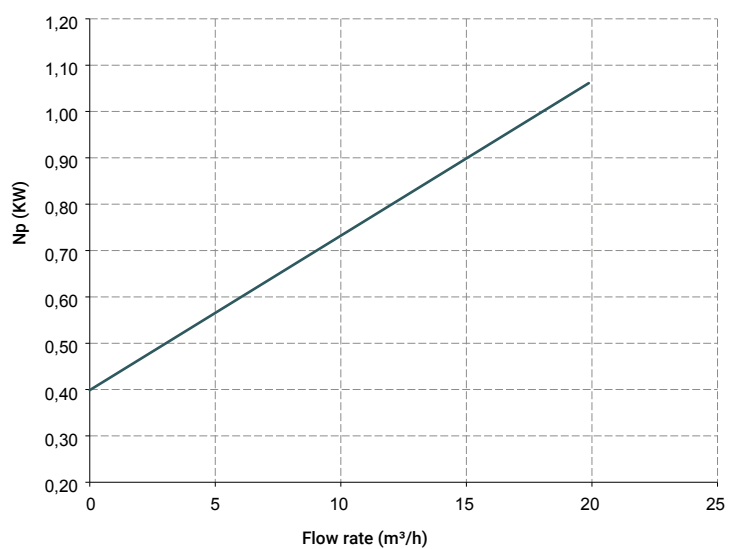
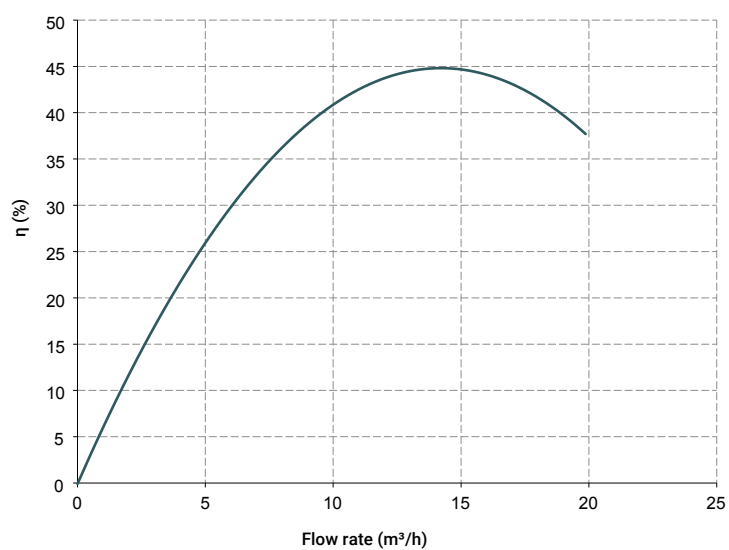
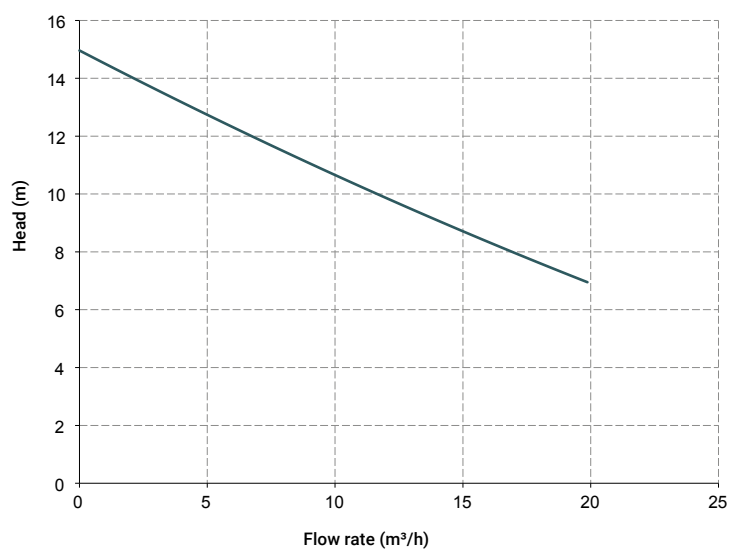
GALVANIC AND ELECTRONIC  
INDUSTRY

# MB 110

HORIZONTAL CENTRIFUGAL PUMPS



## Specifications and types



The curves and the performances refer to pumps with open delivery outlet, with water at 20°C, 50 Hz two-pole motor [2900 RPM].

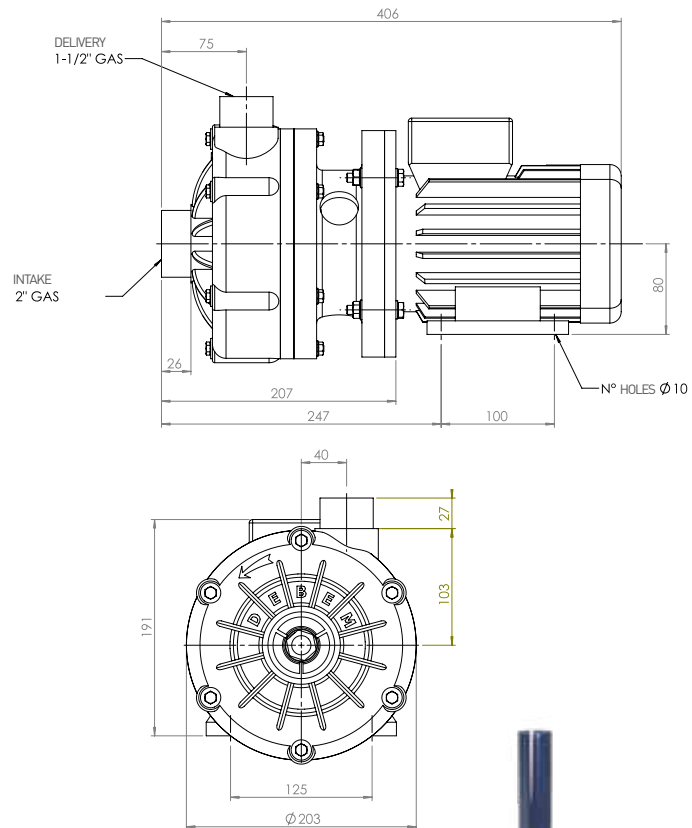
# MB 110

## HORIZONTAL CENTRIFUGAL PUMPS

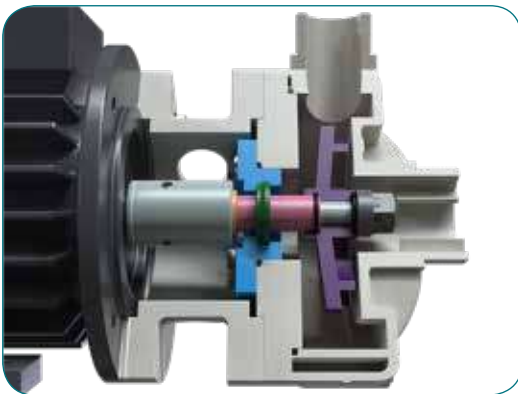


### Specifications and types

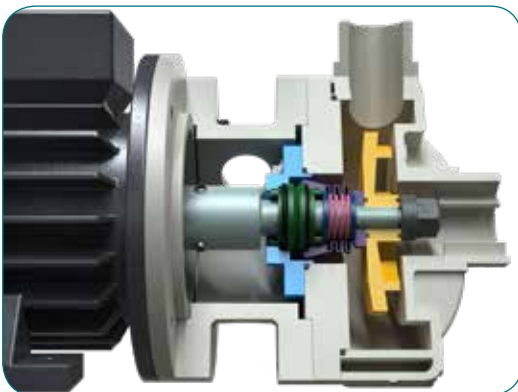
| Pump   | Motor power       |
|--------|-------------------|
| MB 80  | 0.37 Kw - 0.5 HP  |
| MB 100 | 0.55 Kw - 0.75 HP |
| MB 110 | 1.1 Kw - 1.5 HP   |
| MB 120 | 1.5 Kw - 2 HP     |
| MB 130 | 2.2 Kw - 3 HP     |
| MB 140 | 3 Kw - 4 HP       |
| MB 150 | 4 Kw - 5.5 HP     |
| MB 155 | 5.5 Kw - 7.5 HP   |
| MB 160 | 7.5 Kw - 10 HP    |
| MB 180 | 11 Kw - 15 HP     |



TL = lip seal



TS = bellows seal



UNDER HEAD USE

#### Seal o-ring materials:

- EPDM
- VITON®

#### Package:

- wooden crate
- cm 55 x 28 x 42 – weight 10 Kg
- (The weight refers to the package only, without the pump)

#### Accessories

##### FLANGE KIT (DIN standard - ANSI available on request):

- KITFLANGMB110P (POLYPROPYLENE)
- KITFLANGMB110F (PVDF)

Polypropylene or PVDF basket strainers