

MAGNETIC DRIVE CENTRIFUGAL PUMPS

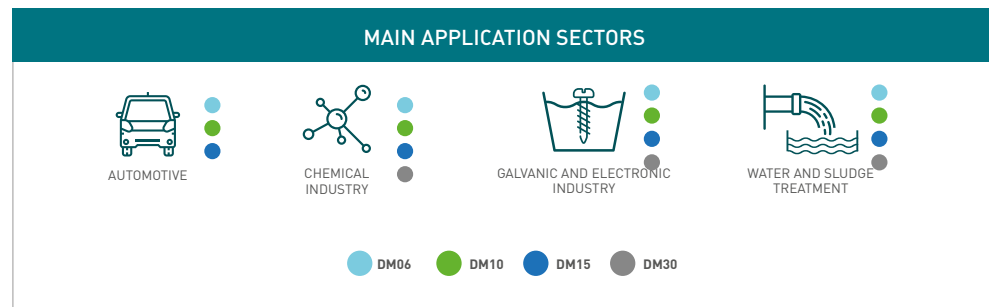
Debem's magnetic drive centrifugal pumps are the ideal solution for numerous applications: laboratory machines, medical equipment, photographic developing machines, X-ray processes, silver recovery systems, graphics industry, heat exchangers, aquariums, water treatment, filtering systems, galvanic and chemical industry and the transfer of acids and corrosive fluids.

The DM pumps must be installed exclusively with the axis horizontal under head. Suitable devices must be included to avoid the dry-operation and the formation of vortices and the possible suction of air.

The DM pumps must operate exclusively with the PUMP FLOODED

The pumps are driven by a pair of magnets: the outer magnet is positioned on the motor shaft and transmits the motion to the inner magnet integrated with the hermetically sealed impeller. The pump impeller is not physically fixed to the motor shaft, thereby eliminating the need for seals and consequently any leaks of the liquid being pumped due to wear. The pumping unit is constructed with a low number of components, rendering maintenance extremely easy. The materials used as standard are polypropylene (PP) and polyvinylidene fluoride (PVDF). The pumps cannot operate dry. Dirty liquids can reduce their life.

- Product designed and constructed in Italy
- Constructed in polypropylene or PVDF
- Under head use
- Extremely easy to maintain
- Suitable for continuous use

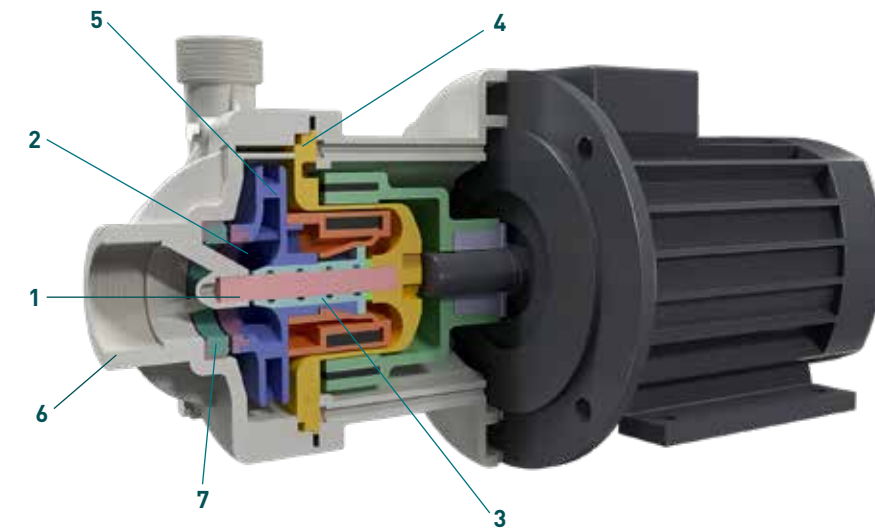


DM PUMPS CODES ENCODING

ex. DM10P-SD1BE071
DM10 PP, standard thrust bearing, EPDM o-ring, Ø 98 mm impeller, BSP fitting, MEC motor flange, 071 casing.

DM10	P	S	D	1	B	E	071
PUMP MODEL	PUMP CASING	THRUST BEARING	O-RING	IMPELLER	FITTING	MOTOR FLANGE	CASING
DM06 DM10 DM15 DM30	P - Polypropylene FC - PVDF+CF	S - Standard (ceramic + PTFE Graphite)	D - EPDM V - Viton®	DM06 1=Ø 81 2=Ø 70 3=Ø 65 DM10 1=Ø 98 2=Ø 85 3=Ø 70 DM15 1=Ø 123 2=Ø 108 3=Ø 90 DM30 1=Ø 134 2=Ø 122 3=Ø 110	N - NPT B - BSP	E - MEC U* - NEMA	DM06 063 071 DM10 071 080 DM15 090 DM30 090 100 112

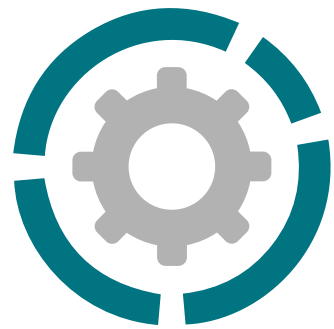
* Only the pump can be supplied, with American flange, for coupling with NEMA motor



Components	Materials
1 Shaft	Alumina ceramic 99.7%
2 Impeller thrust bearing	PTFE + 30% Graphite
3 Bushing	PTFE + 30% Graphite
4 O-Ring	Viton®/EPDM
5 Impeller	PP/PVDF+CF
6 Pump casing	PP/PVDF+CF
7 Head thrust bearing	Alumina ceramic 99.7%



Specifications and types

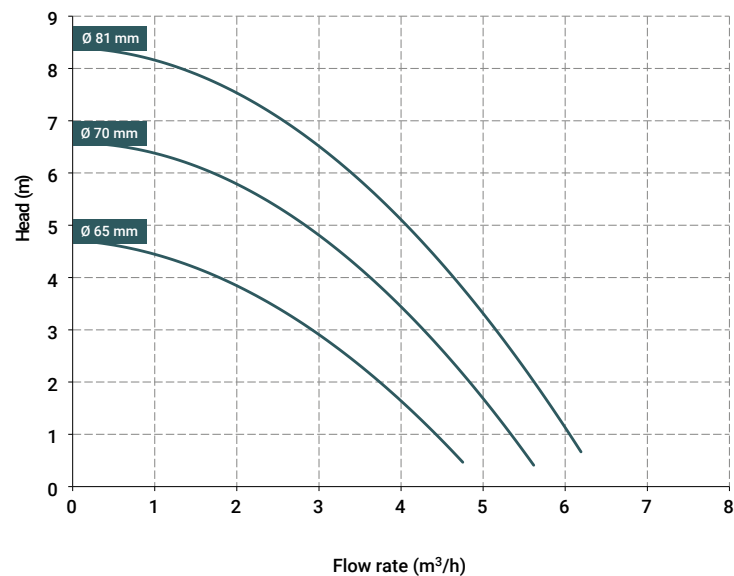


Suction fittings	G 1" f or DN 25 - NPT
Delivery fittings	G 3/4" m or DN 20 - NPT
Max flow rate	7 m ³ /h
Max head	8.5 m
Viscosity up to	150 cps

PP



PVDF



The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials and 50 Hz two-pole motor (2900 rpm).

IMPELLER	Motor 0.25 Kw (0.35 HP) so PP*	Motor 0.37 Kw (0.5 HP)
Ø 81 mm (Standard)	up to 1.2 g/cm ³	up to 1.8 g/cm ³
Ø 70 mm	up to 1.5 g/cm ³	up to 2 g/cm ³
Ø 65 mm	up to 1.8 g/cm ³	up to 2 g/cm ³

Operating temperature:

PP	from +3°C to +65°C, 2 Kg
PVDF	from +3°C to +95°C, 2.25 Kg

Specifications and types

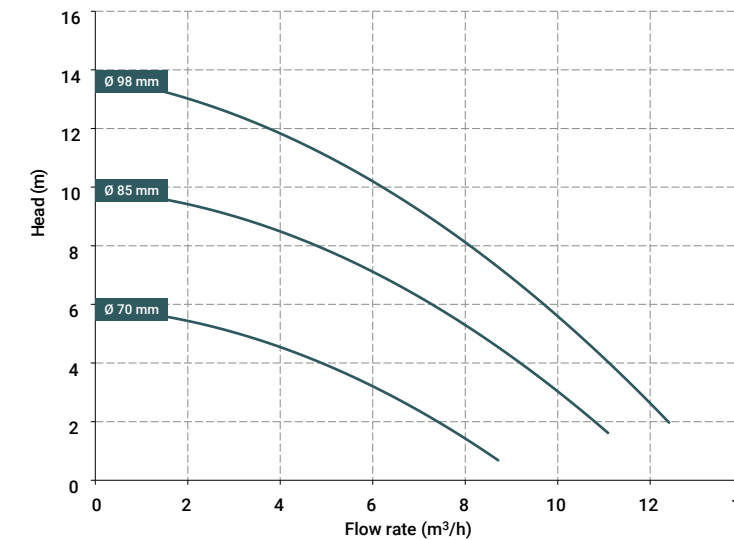


Suction fittings	G 1 1/2" f or DN 40 - NPT
Delivery fittings	G 1" m or DN 25 - NPT
Max flow rate	13 m ³ /h
Max head	14 m
Viscosity up to	150 cps

PP



PVDF



The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials and 50 Hz two-pole motor (2900 rpm).

IMPELLER	Motor 0.55 Kw (3 HP)	Motor 0.75 Kw (4 HP)
Ø 98 mm (Standard)	up to 1.1 g/cm ³	up to 1.5 g/cm ³
Ø 85 mm	up to 1.6 g/cm ³	up to 2 g/cm ³
Ø 70 mm	up to 2 g/cm ³	up to 2 g/cm ³

Operating temperature and weights:

PP	from +3°C to +65°C, 2.2 Kg
PVDF	from +3°C to +95°C, 2.5 Kg

Standard electric motor:

Kw 0.25 HP 0.35

Casing B3+B5 RPM 2900
Three-phase 230/400 V
 50/60 HZ
 2 Poles IE1 Protection IP55
 Ambient temperature -30°C + 45°C

Kw 0.37 HP 0.5

Casing B3+B5 RPM 2900
Three-phase 230/400 V
 50/60 HZ
 2 Poles IE1 Protection IP55
 Ambient temperature -30°C + 45°C

Kw 0.25 HP 0.35

Casing B3+B5 RPM 2900
Single-phase
 Ambient temperature -30°C + 45°C

Kw 0.37 HP 0.5

Casing B3+B5 RPM 2900
Single-phase
 Ambient temperature -30°C + 45°C

Electric motors available on request:

SINGLE-PHASE
 ATEX
 NEMA 56C*
 *(only pump available, with American flange, for coupling with NEMA motor - the motor is not available in our standard)

Standard electric motor:

Kw 0.55 HP 0.75

Casing B3+B5 RPM 2900
Three-phase 230/400 V - 50/60 HZ
 2 Poles IE1 Protection IP55
 Ambient temperature -30°C + 45°C

Kw 0.75 HP 1

Casing B3+B5 RPM 2900
Three-phase 230/400 V - 50/60 HZ
 2 Poles IE3 Protection IP55
 Ambient temperature -30°C + 45°C

Kw 0.55 HP 0.75

Casing B3+B5 RPM 2900
Single-phase
 Ambient temperature -30°C + 45°C

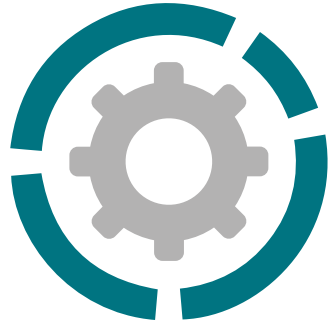
Kw 0.75 HP 1

Casing B3+B5 RPM 2900
Single-phase
 Ambient temperature -30°C + 45°C

Electric motors available on request:

SINGLE-PHASE
 ATEX
 NEMA 56C* / 143TC
 *(only pump available, with American flange, for coupling with NEMA motor - the motor is not available in our standard)

Specifications and types

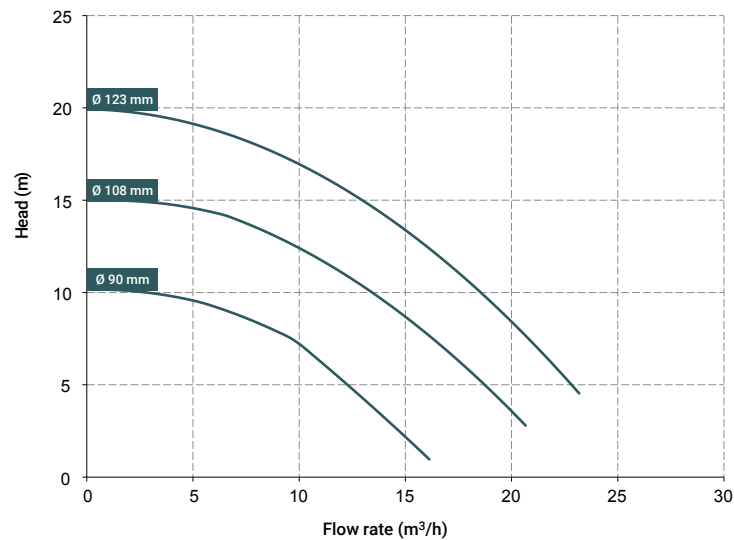


Suction fittings	G 1"1/2 f or DN 40 - NPT
Delivery fittings	G 1"1/4 m or DN 32 - NPT
Max flow rate	23.5 m ³ /h
Max head	20 m
Viscosity up to	150 cps

PP



PVDF



The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials and 50 Hz two-pole motor (2900 rpm).

IMPELLER	Motor 1.5 Kw (2 HP)	Motor 2.2 Kw (3 HP)
Ø 123 mm (Standard)	up to 1.1 g/cm ³	up to 1.8 g/cm ³
Ø 108 mm	up to 1.6 g/cm ³	up to 2 g/cm ³
Ø 90 mm	up to 2 g/cm ³	up to 2 g/cm ³

Operating temperature and weights:

PP	from +3°C to +65°C, 4.5 Kg
PVDF	from +3°C to +95°C, 5.2 Kg

Specifications and types

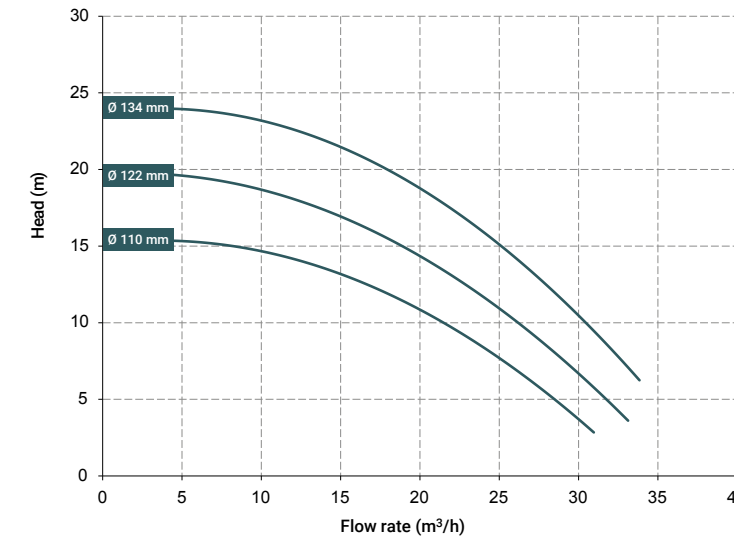


Suction fittings	G 2" f or DN 50 - NPT
Delivery fittings	G 1"1/2 m or DN 40 - NPT
Max flow rate	35 m ³ /h
Max head	8.5 m
Viscosity up to	150 cps

PP



PVDF



The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials and 50 Hz two-pole motor (2900 rpm).

IMPELLER	Motor 2.2 Kw (3 HP)	Motor 3 Kw (4 HP)	Motor 4 Kw (5.5 HP)
Ø 134 mm (Standard)	up to 1.1 g/cm ³	up to 1.5 g/cm ³	up to 1.8 g/cm ³
Ø 122 mm	up to 1.4 g/cm ³	up to 2 g/cm ³	up to 2 g/cm ³
Ø 110 mm	up to 1.8 g/cm ³	up to 2 g/cm ³	up to 2 g/cm ³

Operating temperature and weights:

PP	from +3°C to +65°C, 6 Kg
PVDF	from +3°C to +95°C, 7 Kg

Electric motors available on request:

SINGLE-PHASE
ATEX
NEMA 145TC* / 184TC*

*[only pump available, with American flange, for coupling with NEMA motor - the motor is not available in our standard]

Standard electric motor:

Kw 1.5 HP 2

Casing B3+B5 RPM 2900
Three-phase 230/400 V - 50/60 HZ
 2 Poles IE3 Protection IP55
 Ambient temperature -30°C + 45°C

Kw 2.2 HP 3

Casing B3+B5 RPM 2900
Three-phase 230/400 V - 50/60 HZ
 2 Poles IE3 Protection IP55
 Ambient temperature -30°C + 45°C

Kw 1.5 HP 2

Casing B3+B5 RPM 2900
Single-phase
 Ambient temperature -30°C + 45°C

Kw 2.2 HP 3

Casing B3+B5 RPM 2900
Single-phase
 Ambient temperature -30°C + 45°C

Electric motors available on request:

SINGLE-PHASE
ATEX
NEMA 145TC
*[only pump available, with American flange, for coupling with NEMA motor - the motor is not available in our standard]

Standard electric motor:

Kw 2.2 HP 3

Casing B3+B5 RPM 2900
Three-phase 230/400 V - 50/60 HZ
 2 Poles IE3 Protection IP55
 Ambient temperature -30°C + 45°C

Kw 3 HP 4

Casing B3+B5 RPM 2900
Three-phase 230/400 V - 50/60 HZ
 2 Poles IE3 Protection IP55
 Ambient temperature -30°C + 45°C

Kw 4 HP 5.5

Casing B3+B5 RPM 2900
Three-phase 230/400 V - 50/60 HZ
 2 Poles IE3 Protection IP55
 Ambient temperature -30°C + 45°C

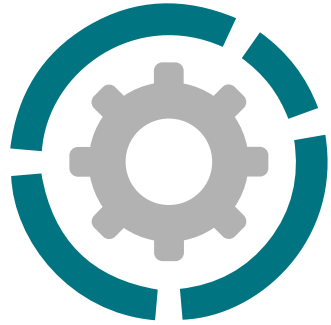
Kw 2.2 HP 3

Casing B3+B5 RPM 2900
Single-phase
 Temperatura ambiente -30°C + 45°C

Kw 3 HP 4

Casing B3+B5 RPM 2900
Single-phase
 Ambient temperature -30°C + 45°C

Specifications and types



Suction fittings	G 3" f or DN 80 - NPT on request
Delivery fittings	G 2" 1/2 m or DN 65 - NPT on request
Max flow rate	65 m ³ /h
Max head	29 m
Viscosity up to	150 cps

PP



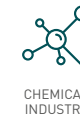
PVDF



Operating temperature and weights:

PP	from + 3°C to + 65°C, 33 Kg
PVDF	from + 3°C to + 95°C, 34,5 Kg

MAIN APPLICATION SECTORS



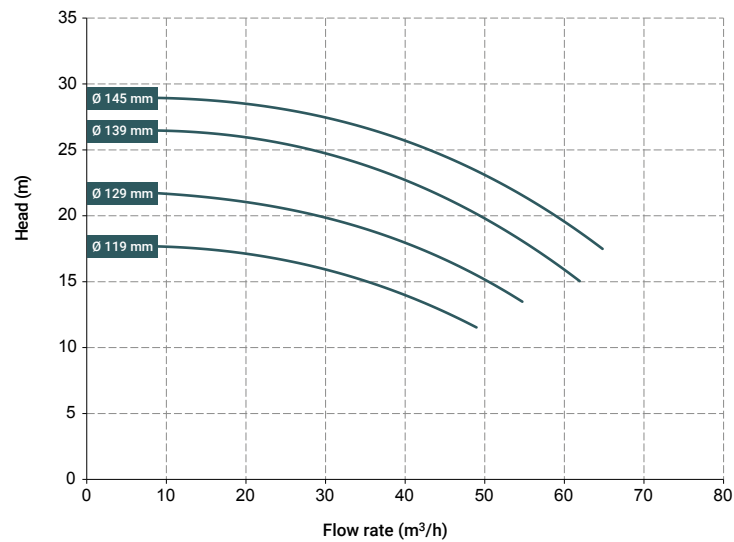
CHEMICAL INDUSTRY



WATER AND SLUDGE TREATMENT



GALVANIC AND ELECTRONIC INDUSTRY



Standard electric motor:

Kw 4 HP 5.5

Casing B3+B5 RPM 2900
Three-phase 230/400 V - 50/60 HZ
 ATEX available on request

Kw 5.5 HP 7.5

Casing B3+B5 RPM 2900
Three-phase 400/690 V - 50/60 HZ
 ATEX available on request

Kw 7.5 HP 10

Casing B3+B5 RPM 2900
Three-phase 400/690 V - 50/60 HZ
 ATEX available on request



IMPELLER

- Ø 145 mm (Standard)
- Ø 139 mm
- Ø 129 mm
- Ø 119 mm

The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials and 50 Hz two-pole motor (2900 rpm).

HORIZONTAL CENTRIFUGAL PUMPS

The horizontal centrifugal pumps with a resin casing, are driven by a direct drive electric motor (max 3000 RPM) to transfer and/or empty liquids quickly, with flow rates from 6 to 75 m3/hour.

Their unique open impeller design allows them to pump even very dirty fluids with an apparent viscosity up to 500 cps (at 20°C) and small-sized suspended solids.

They are available in two version with different internal mechanical seal, based on their use, TL (lip seal) and TS (bellows seal).

They are driven by the impeller that, integrated with the shaft and the electric motor (direct drive), is rotated creating, due to centrifugal effect, a suction on the central duct and a delivery on the peripheral duct.

- 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

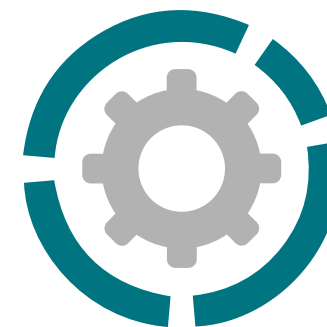
ex. MB080--P-TLVN
MB 80 PP, Viton® lip seal, three-phase motor.

MB80	P	TLV	N
PUMP MODEL	MATERIAL CASING	TYPE OF SEAL	MOTOR
MB 80 - 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

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

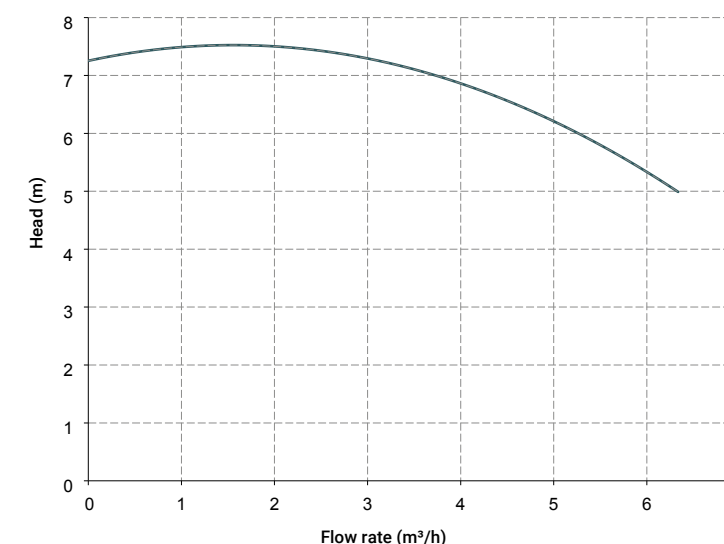


Specifications and types



Suction fittings	G 1 1/2 f or DN 40
Delivery fittings	G 1" m or DN 25
Max flow rate	6 m3/h
Max head	7.5 m
Viscosity up to	500 cps
Standard open impeller	Ø 85 mm H 9 mm *
Passing solids	Ø max 5 mm

* Special versions are available on request for the fluid pumped



The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials and 50 Hz two-pole motor (2900 rpm).



Pump casing construction material, operating temperature and net weight

Polypropylene (with glass additive)	1.7 Kg* Max 3°C min. 65°C max
PVDF (with carbon additive)	2.2 Kg* Max 3°C min. 95°C max

* The weights refer to the pump without the motor

Standard electric motor:

Kw	0.37
HP	0.5
Box	B3 + B14
RPM	2900
THREE-PHASE 230/400 V	
50/60 Hz	
2 poles	
IE1 efficiency class	
IP55 protection rating	
Ambient temperature -30°C + 45°C	
Aluminium/Cast iron	
SINGLE-PHASE	on request
ATEX	on request

PP



PVDF

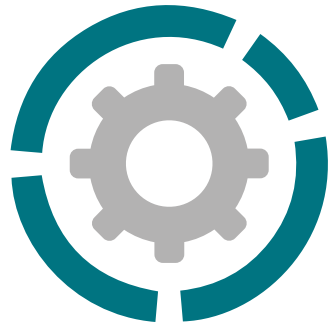


MAIN APPLICATION SECTORS



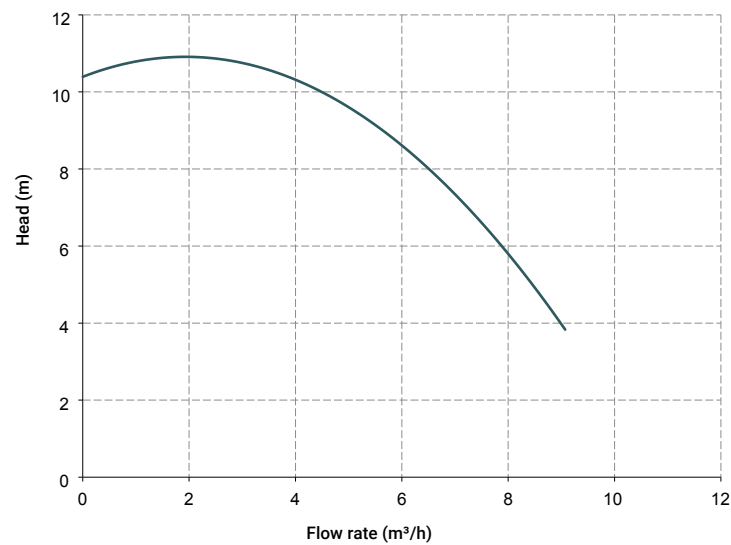
MB 100

Specifications and types



Suction fittings	G 1 1/2 f or DN 40
Delivery fittings	G 1" m or DN 25
Max flow rate	9 m3/h
Max head	10.5 m
Viscosity up to	500 cps
Standard open impeller	Ø 97 mm H 12 mm *
Passing solids	Ø max 7 mm

* Special versions are available on request for the fluid pumped



The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials and 50 Hz two-pole motor (2900 rpm).



Pump casing construction material, operating temperature and net weight

Polypropylene (with glass additive)	1.7 Kg* Max 3°C min. 65°C max
PVDF (with carbon additive)	2.2 Kg* Max 3°C min. 95°C max

* The weights refer to the pump without the motor

Standard electric motor:

Kw	0.55
HP	0.75
Box	B3 + B14
RPM	2900
THREE-PHASE 230/400 V	
50/60 Hz	
2 poles	
IE1 efficiency class	
IP55 protection rating	
Ambient temperature -30°C + 45°C	
Aluminium/Cast iron	
SINGLE-PHASE	on request
ATEX	on request



MAIN APPLICATION SECTORS

AUTOMOTIVE

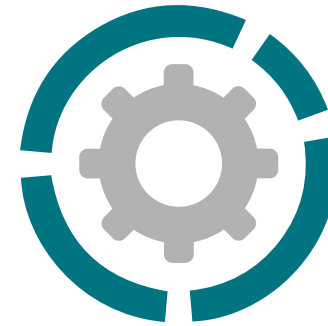
CHEMICAL INDUSTRY

WATER AND SLUDGE TREATMENT

GALVANIC AND ELECTRONIC INDUSTRY

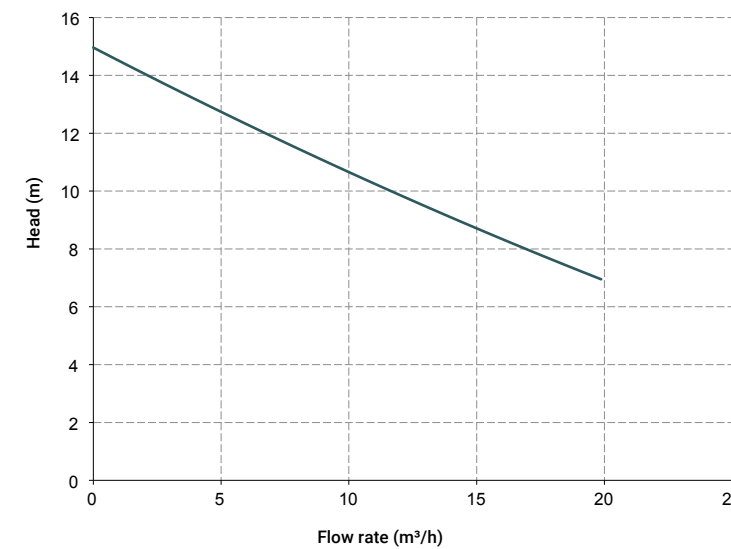
MB 110

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 m3/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



The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials and 50 Hz two-pole motor (2900 rpm).



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	
IE3 efficiency class	
IP55 protection rating	
Ambient temperature -30°C + 45°C	
Aluminium/Cast iron	
SINGLE-PHASE	on request
ATEX	on request



MAIN APPLICATION SECTORS

AUTOMOTIVE

CHEMICAL INDUSTRY

WATER AND SLUDGE TREATMENT

GALVANIC AND ELECTRONIC INDUSTRY

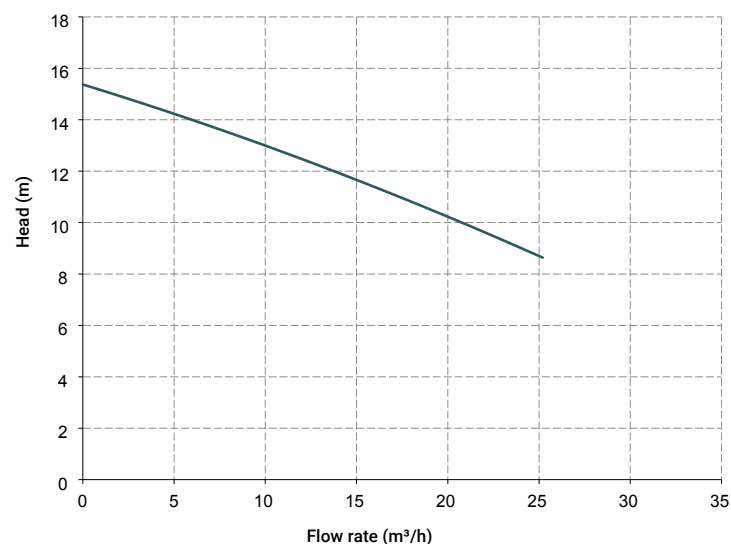
MB 120

Specifications and types



Suction fittings	G 2" m or DN 50
Delivery fittings	G 1 1/2 m or DN 40
Max flow rate	25 m ³ /h
Max head	15 m
Viscosity up to	500 cps
Standard open impeller	Ø 120 mm H 8 mm *
Passing solids	Ø max 6 mm

* Special versions are available on request for the fluid pumped



The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials and 50 Hz two-pole motor (2900 rpm).



Pump casing construction material, operating temperature and net weight

Polypropylene (with glass additive)	3.8 Kg*
	Max 3°C min.
	65°C max
PVDF (with carbon additive)	4.9 Kg*
	Max 3°C min.
	95°C max

* The weights refer to the pump without the motor

Standard electric motor:

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

PP



PVDF



MAIN APPLICATION SECTORS

AUTOMOTIVE

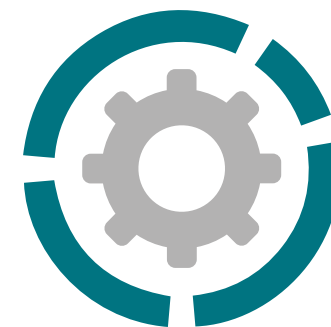
CHEMICAL INDUSTRY

WATER AND SLUDGE TREATMENT

GALVANIC AND ELECTRONIC INDUSTRY

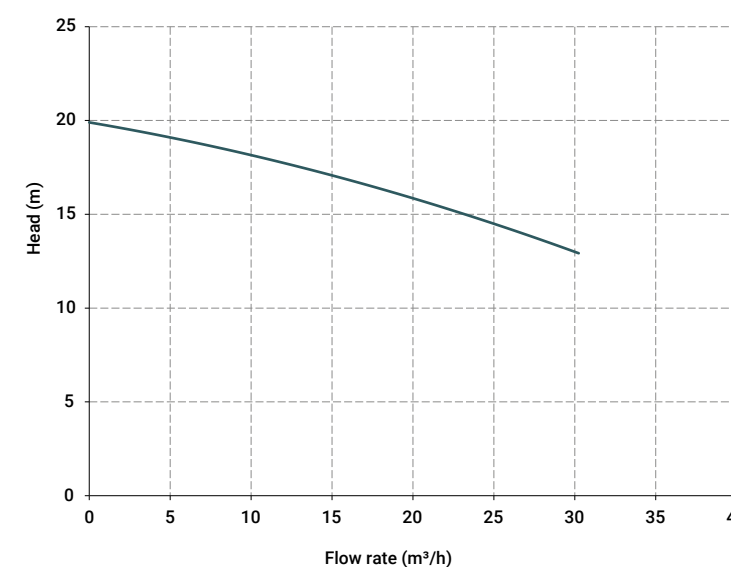
MB 130

Specifications and types



Suction fittings	G 2" m or DN 50
Delivery fittings	G 1 1/2 m or DN 40
Max flow rate	30 m ³ /h
Max head	20 m
Viscosity up to	500 cps
Standard open impeller	Ø 130 mm H 8 mm *
Passing solids	Ø max 6 mm

* Special versions are available on request for the fluid pumped



The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials and 50 Hz two-pole motor (2900 rpm).



Pump casing construction material, operating temperature and net weight

Polypropylene (with glass additive)	3.8 Kg*
	Max 3°C min.
	65°C max
PVDF (with carbon additive)	4.9 Kg*
	Max 3°C min.
	95°C max

* The weights refer to the pump without the motor

Standard electric motor:

Kw	2.2
HP	3
Box	B3 + B5
RPM	2900
THREE-PHASE 230/400 V	
50/60 Hz	
2 poles	
IE3 efficiency class	
IP55 protection rating	
Ambient temperature -30°C + 45°C	
Aluminium/Cast iron	
SINGLE-PHASE	on request
ATEX	on request

PP



PVDF



MAIN APPLICATION SECTORS

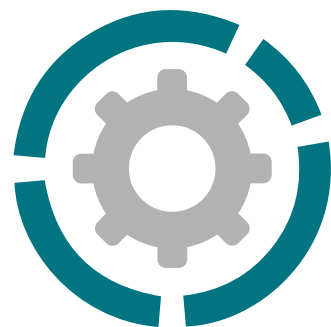
CHEMICAL INDUSTRY

WATER AND SLUDGE TREATMENT

GALVANIC AND ELECTRONIC INDUSTRY

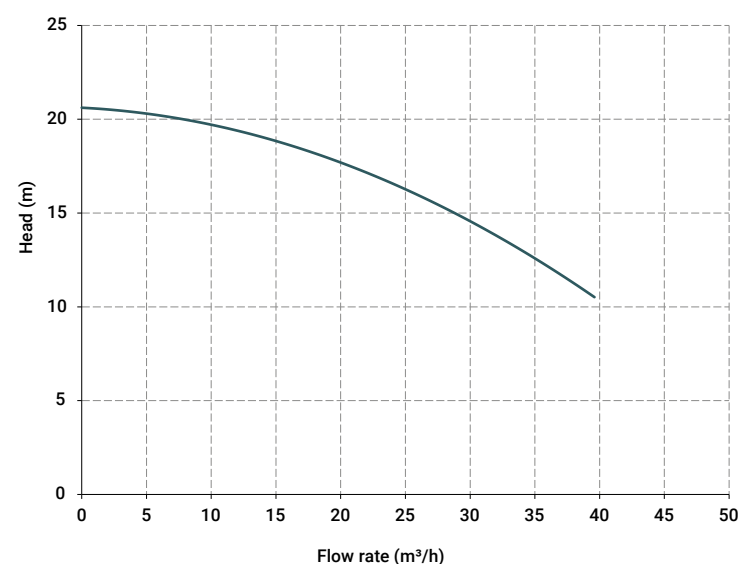
MB 140

Specifications and types



Suction fittings	G 2" m or DN 50
Delivery fittings	G 1 1/2 m or DN 40
Max flow rate	40 m ³ /h
Max head	21 m
Viscosity up to	500 cps
Standard open impeller	Ø 130 mm H 14 mm *
Passing solids	Ø max 12 mm

* Special versions are available on request for the fluid pumped



The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials and 50 Hz two-pole motor (2900 rpm).



Pump casing construction material, operating temperature and net weight

Polypropylene (with glass additive)	4 Kg*
	Max 3°C min.
	65°C max
PVDF (with carbon additive)	5 Kg*
	Max 3°C min.
	95°C max

* The weights refer to the pump without the motor

Standard electric motor:

Kw	3
HP	4
Box	B3 + B14
RPM	2900
THREE-PHASE 230/400 V	
50/60 Hz	
2 poles	
IE3 efficiency class	
IP55 protection rating	
Ambient temperature -30°C + 45°C	
Aluminium/Cast iron	
SINGLE-PHASE	on request
ATEX	on request



PP



PVDF

MAIN APPLICATION SECTORS

AUTOMOTIVE

CHEMICAL INDUSTRY

WATER AND SLUDGE TREATMENT

GALVANIC AND ELECTRONIC INDUSTRY

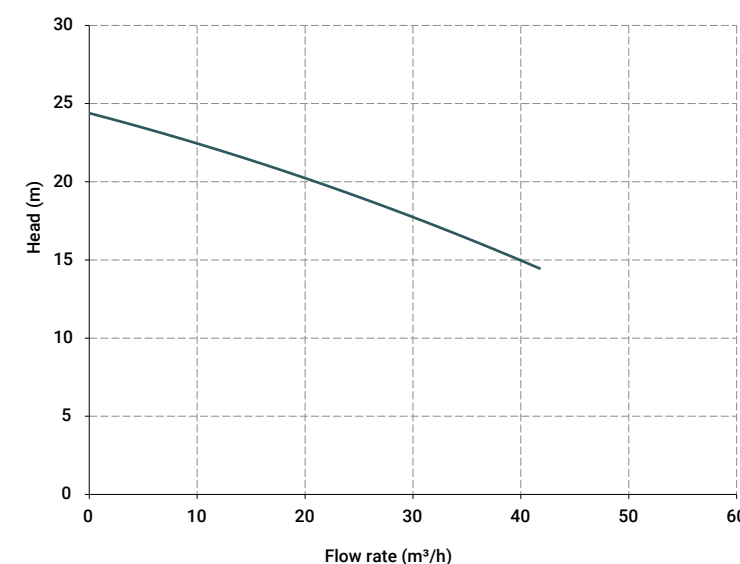
MB 150

Specifications and types



Suction fittings	G 2 1/2 f or DN 65
Delivery fittings	G 2" m or DN 50
Max flow rate	42 m ³ /h
Max head	24 m
Viscosity up to	500 cps
Standard open impeller	Ø 160 mm H 5.5 mm -10° *
Passing solids	Ø max 2 mm

* Special versions are available on request for the fluid pumped



The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials and 50 Hz two-pole motor (2900 rpm).



Pump casing construction material, operating temperature and net weight

Polypropylene (with glass additive)	8.1 Kg*
	Max 3°C min.
	65°C max
PVDF (with carbon additive)	11 Kg*
	Max 3°C min.
	95°C max

* The weights refer to the pump without the motor

Standard electric motor:

Kw	4
HP	5.5
Box	B3 + B5
RPM	2900
THREE-PHASE 230/400 V	
50/60 Hz	
2 poles	
IE3 efficiency class	
IP55 protection rating	
Ambient temperature -30°C + 45°C	
Aluminium/Cast iron	
ATEX	on request



PP



PVDF

MAIN APPLICATION SECTORS

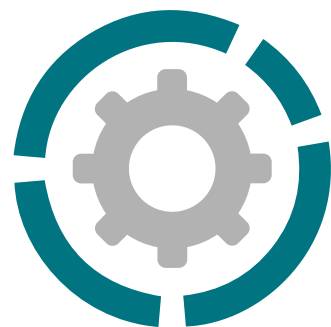
CHEMICAL INDUSTRY

WATER AND SLUDGE TREATMENT

GALVANIC AND ELECTRONIC INDUSTRY

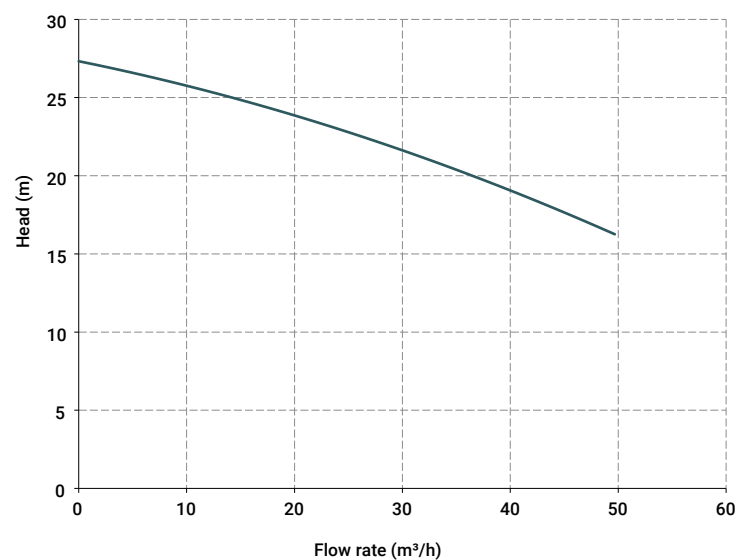
MB 155

Specifications and types



Suction fittings	G 2" 1/2 f or DN 65
Delivery fittings	G 2" m or DN 50
Max flow rate	50 m ³ /h
Max head	27 m
Viscosity up to	500 cps
Standard open impeller	Ø 162 mm H 4 mm -10° *
Passing solids	Ø max 3 mm

* Special versions are available on request for the fluid pumped



The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials and 50 Hz two-pole motor (2900 rpm).



Pump casing construction material, operating temperature and net weight

Polypropylene (with glass additive)	9.5 Kg*
	Max 3°C min.
	65°C max
PVDF (with carbon additive)	12.4 Kg*
	Max 3°C min.
	95°C max

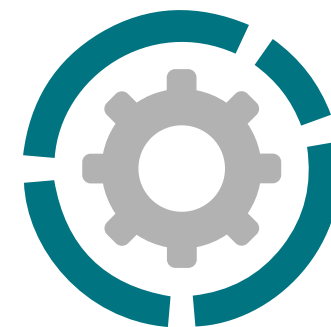
* The weights refer to the pump without the motor

Standard electric motor:

Kw	5.5
HP	7.5
Box	B3 + B5
RPM	2900
THREE-PHASE 400/690 V	
50/60 Hz	
2 poles	
IE3 efficiency class	
IP55 protection rating	
Ambient temperature -30°C + 45°C	
Aluminium/Cast iron	
ATEX	on request

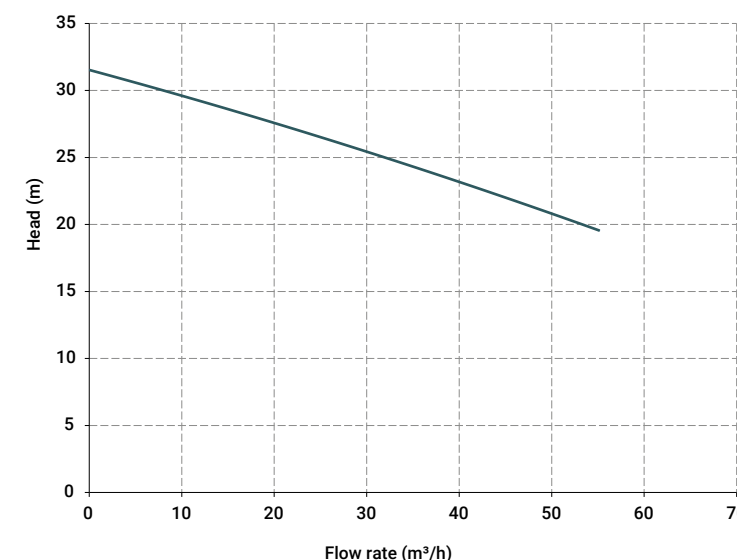
MB 160

Specifications and types



Suction fittings	G 2" 1/2 f or DN 65
Delivery fittings	G 2" m or DN 50
Max flow rate	55 m ³ /h
Max head	32 m
Viscosity up to	500 cps
Standard open impeller	Ø 162 mm H 11 mm -10° *
Passing solids	Ø max 9 mm

* Special versions are available on request for the fluid pumped



The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials and 50 Hz two-pole motor (2900 rpm).



Pump casing construction material, operating temperature and net weight

Polypropylene (with glass additive)	9.8 Kg*
	Max 3°C min.
	65°C max
PVDF (with carbon additive)	12.2 Kg*
	Max 3°C min.
	95°C max

* The weights refer to the pump without the motor

Standard electric motor:

Kw	7.5
HP	10
Box	B3 + B5
RPM	2900
THREE-PHASE 400/690 V	
50/60 Hz	
2 poles	
IE3 efficiency class	
IP55 protection rating	
Ambient temperature -30°C + 45°C	
Aluminium/Cast iron	
ATEX	on request

PP



PVDF



MAIN APPLICATION SECTORS



CHEMICAL INDUSTRY



WATER AND SLUDGE TREATMENT



GALVANIC AND ELECTRONIC INDUSTRY

PP



PVDF



MAIN APPLICATION SECTORS



CHEMICAL INDUSTRY

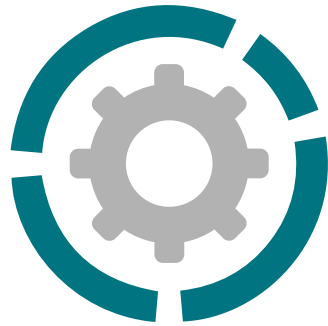


WATER AND SLUDGE TREATMENT



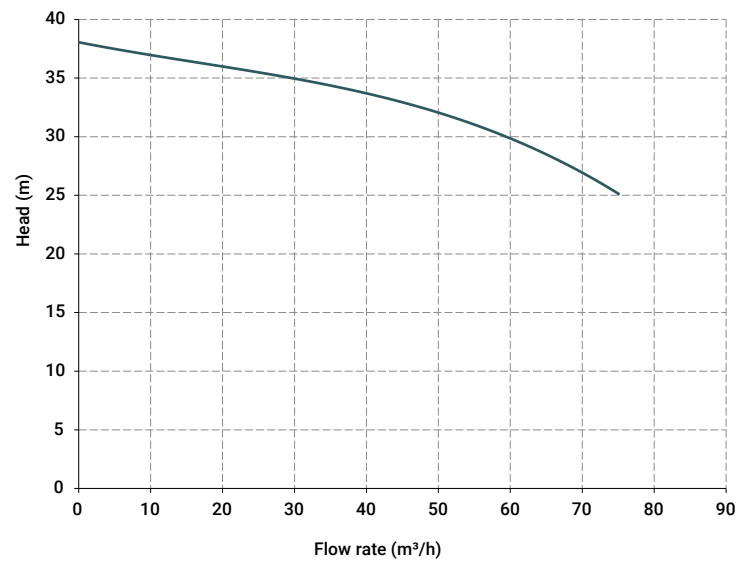
GALVANIC AND ELECTRONIC INDUSTRY

Specifications and types



Suction fittings	G 2" 1/2 f or DN 65
Delivery fittings	G 2" m or DN 50
Max flow rate	75 m ³ /h
Max head	38 m
Viscosity up to	500 cps
Standard open impeller	Ø 176mm H 15 mm -10 ° *
Passing solids	Ø max 9 mm

* Special versions are available on request for the fluid pumped



The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials and 50 Hz two-pole motor (2900 rpm).



Pump casing construction material, operating temperature and net weight

Polypropylene (with glass additive)	9.9 Kg*
	Max 3°C min.
	65°C max
PVDF (with carbon additive)	12.2 Kg*
	Max 3°C min.
	95°C max

* The weights refer to the pump without the motor

Standard electric motor:

Kw	11
HP	15
Box	B3 + B5
RPM	2900
THREE-PHASE	400/690 V
	50/60 Hz
	2 poles
	IE3 efficiency class
	IP55 protection rating
	Ambient temperature -30°C + 45°C
	Aluminium/Cast iron
ATEX	on request

PP



PVDF



MAIN APPLICATION SECTORS



CHEMICAL INDUSTRY

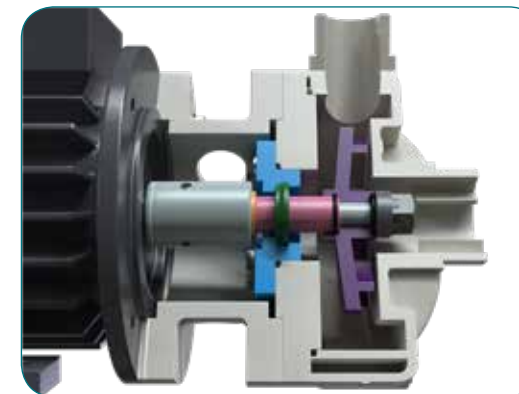


WATER AND SLUDGE TREATMENT

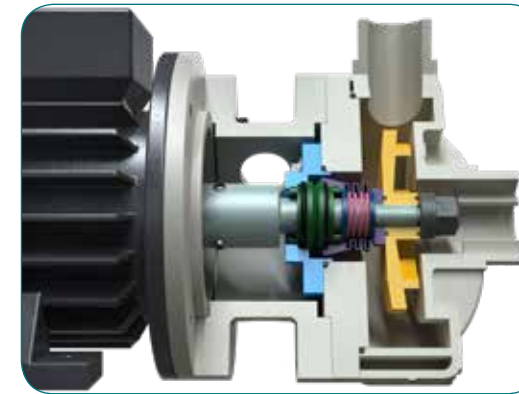


GALVANIC AND ELECTRONIC INDUSTRY

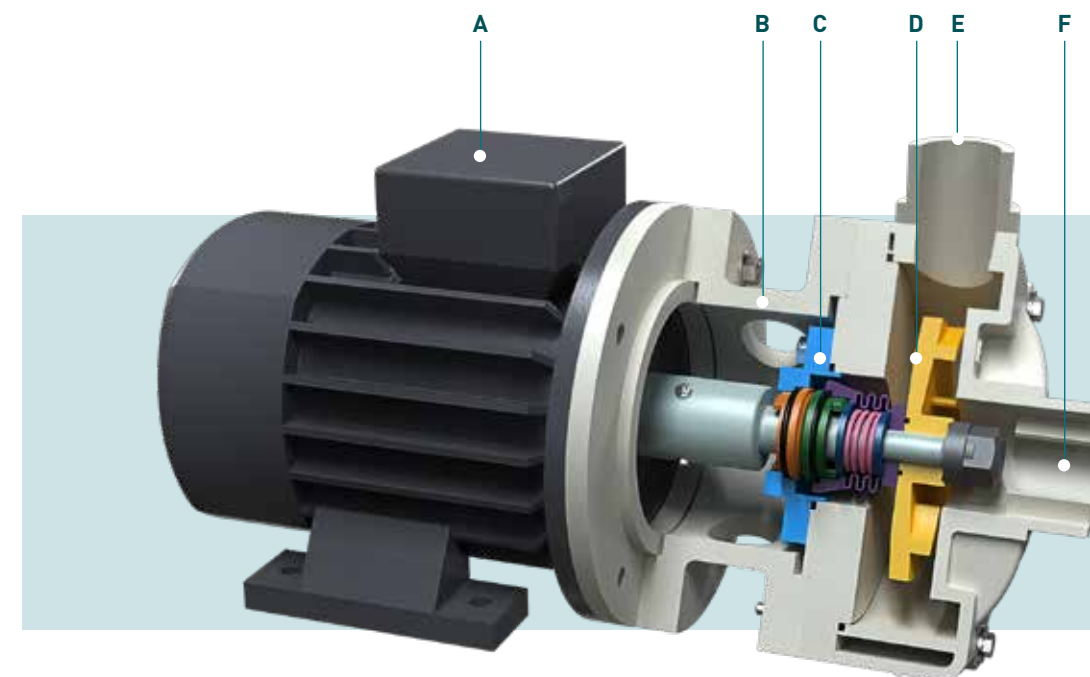
TL = lip seal



TS = bellows seal



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



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