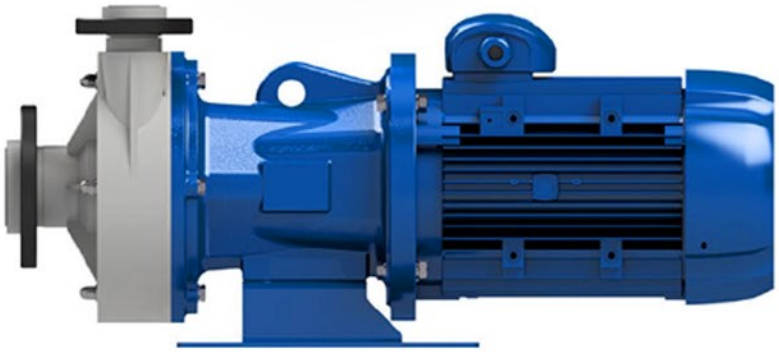
SEAL-LESS™
PUMP COMPANY

SMMB Series
CENTRIFUGAL PUMPS

MAGDRIVE PUMPS™



SEAL-LESS.COM

SMMB Series
Centrifugal Pumps

SMMB-N

Main features

The centrifugal monobloc magnetic drive pump, range SMMB-N, has been designed to solve the different problems generated sometimes from the leakage through the mechanical seals, with the consequence to cause serious environmental contaminations. The impeller rotation is possible thanks to a movement transmitted from the coupling through magnetical induction.

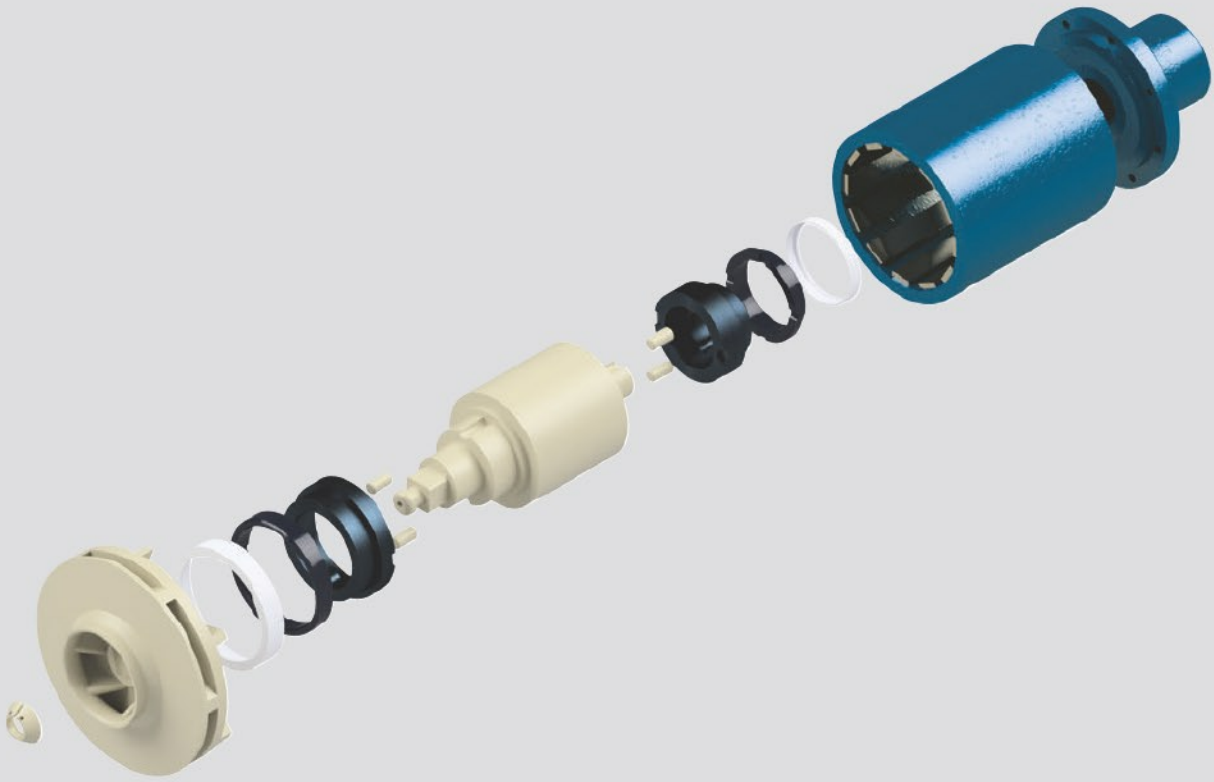
Easy to handle, the pumps of this range are strong, compact construction, produced in their components with high thickness to give a product with the maximum reliability.

Material of Construction

Suitable to transfer acid and basic solutions, the wet ends, tare produced in thermoplastics (PP-PVDF) and O-ring in the proper elastomer material (EPDM-FPM-FEP-FFKM). The impellers installed are generally semi-open, but they are available in the closed version for hot liquids and without solids in suspension. Optionally available the dry-running protector.

Accessories

- Draining hole
- Self-priming tank
- Dry-run protector
- Trolley



Main Components

1 Casing made of extra-thick PP or PVDF, manufactured using mechanical machining processes for 65-125 and 65-160. For pump models 25-125, 32-125, 40-130, 40-160 and 50-160, the part is injection moulded.

2 Centrifugal impeller made of PP or PVDF; semi-open model for particle-loaded fluids and closed for pumping high-temperature solutions. Axial self-balancing guaranteed by rear counter-blades.

3 Rotor in PP or PVDF with a central hole for lubricating the rear guide bushings and impeller balancing. The internal magnetic core, composed of a carbon steel support and magnetic bars in Nd-Fe-B, is fully encapsulated in thermoplastic material to protect it from the rotor.

4 Revolving guide bushings in PTFE CG (SiC available on request), rotate integrally with the rotor.

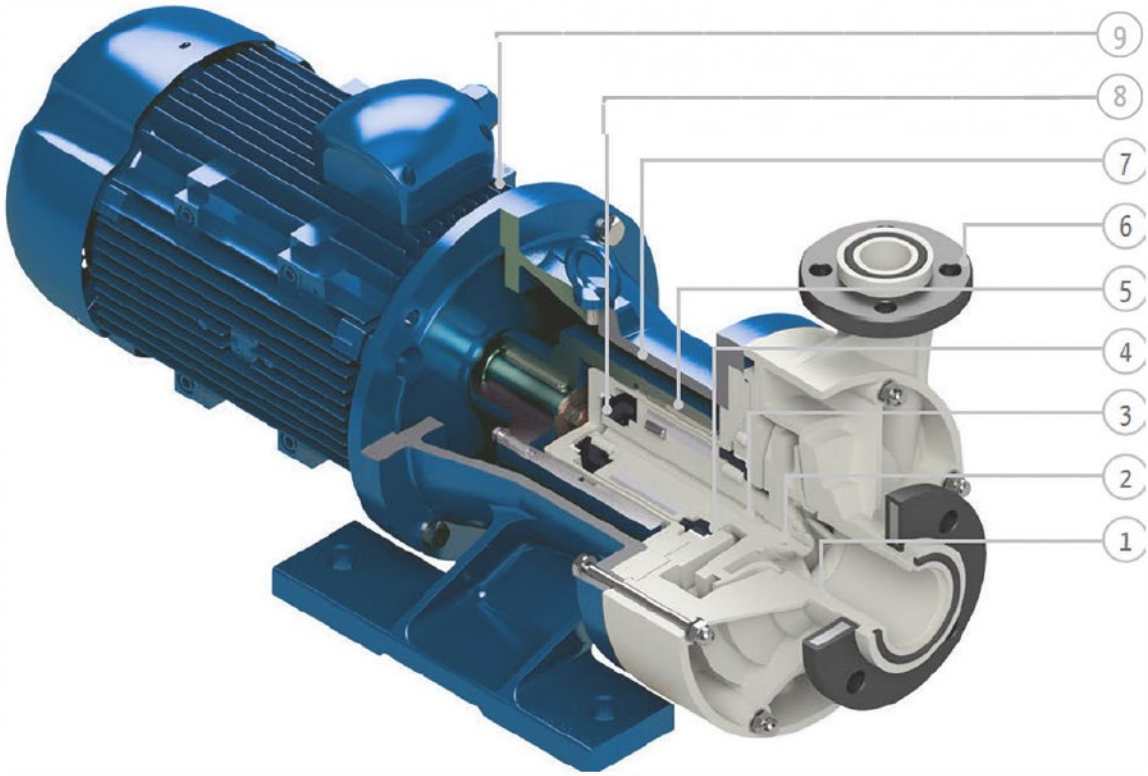
5 External magnetic core with magnetic bars in Nd-Fe-B rotating integrally with the motor, transmits the movement to the rotor.

6 Loose flanges in glass-reinforced PP, strengthened internally with a steel core.

7 Intermediate adaptor of a strong design in grey cast iron G25 equipped with support feet.

8 Static guide bushings in SiC (Al_2O_3 available on request).

9 Three-phase asynchronous electric motor, in compliance with IEC (NEMA available on request).



SMMB-L

Main features

The centrifugal monobloc magnetic drive pump, range SMMB-L, has been designed to solve the different problems generated sometimes from the leakage through the mechanical seals, with the consequence to cause serious environmental contaminations. The impeller rotation is possible thanks to a movement transmitted from the coupling through magnetical induction.

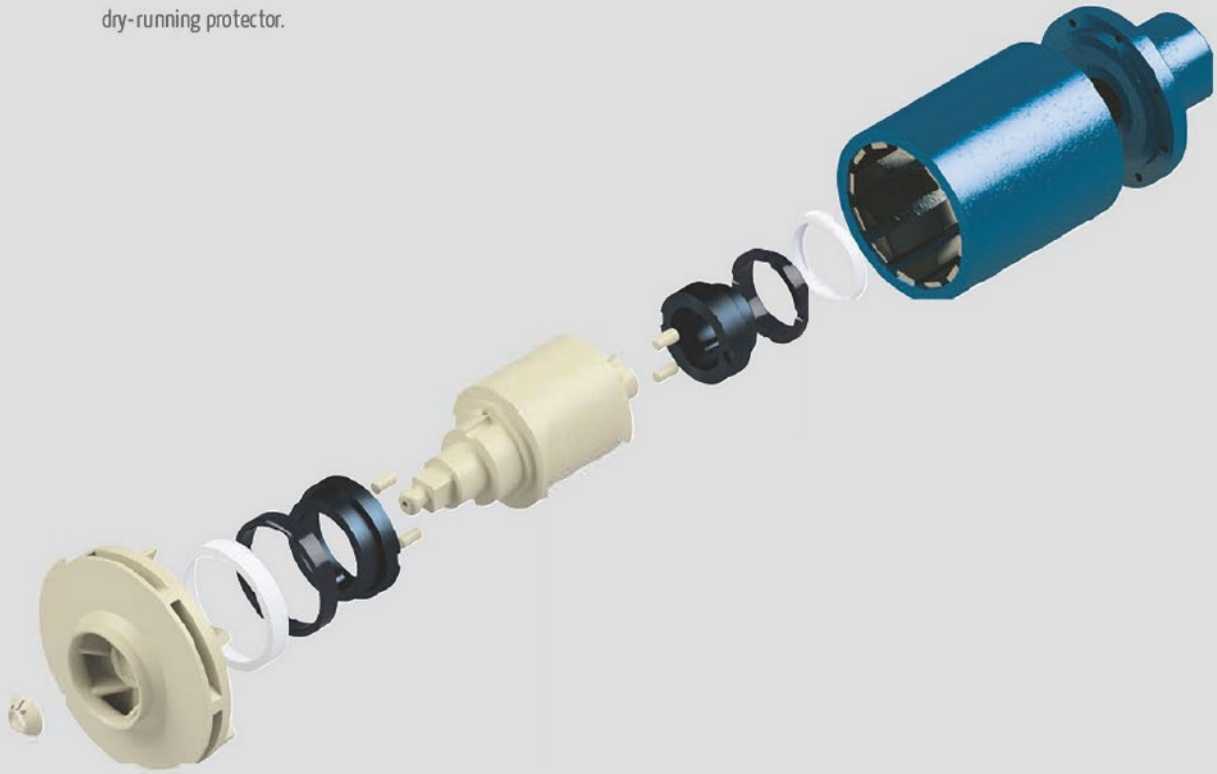
Easy to handle, the pumps of this range are strong, compact construction, produced in their components with high thickness to give a product with the maximum reliability.

Material of Construction

Suitable to transfer acid and basic solutions, the wet ends, tare produced in thermoplastics (PP-PVDF) and O-ring in the proper elastomer material (EPDM-FPM-FEP-FFKM). The impellers installed are generally semi-open, but they are available in the closed version for hot liquids and without solids in suspension. Optionally available the dry-running protector.

Accessories

- Draining hole
- Self-priming tank
- Dry-run protector
- Trolley



Main Components

1 Casing made of extra-thick PP or PVDF, manufactured using mechanical machining processes for 65-125 and 65-160. For pump models 25-125, 32-125, 40-130, 40-160 and 50-160, the part is injection moulded.

2 Centrifugal impeller made of PP or PVDF; semi-open model for particle-loaded fluids and closed for pumping high-temperature solutions. Axial self-balancing guaranteed by rear counter-blades.

3 Rotor in PP or PVDF with a central hole for lubricating the rear guide bushings and impeller balancing. The internal magnetic core, composed of a carbon steel support and magnetic bars in Nd-Fe-B, is fully encapsulated in thermoplastic material to protect it from the rotor.

4 Revolving guide bushings in PTFE CG (SiC available on request), rotate integrally with the rotor.

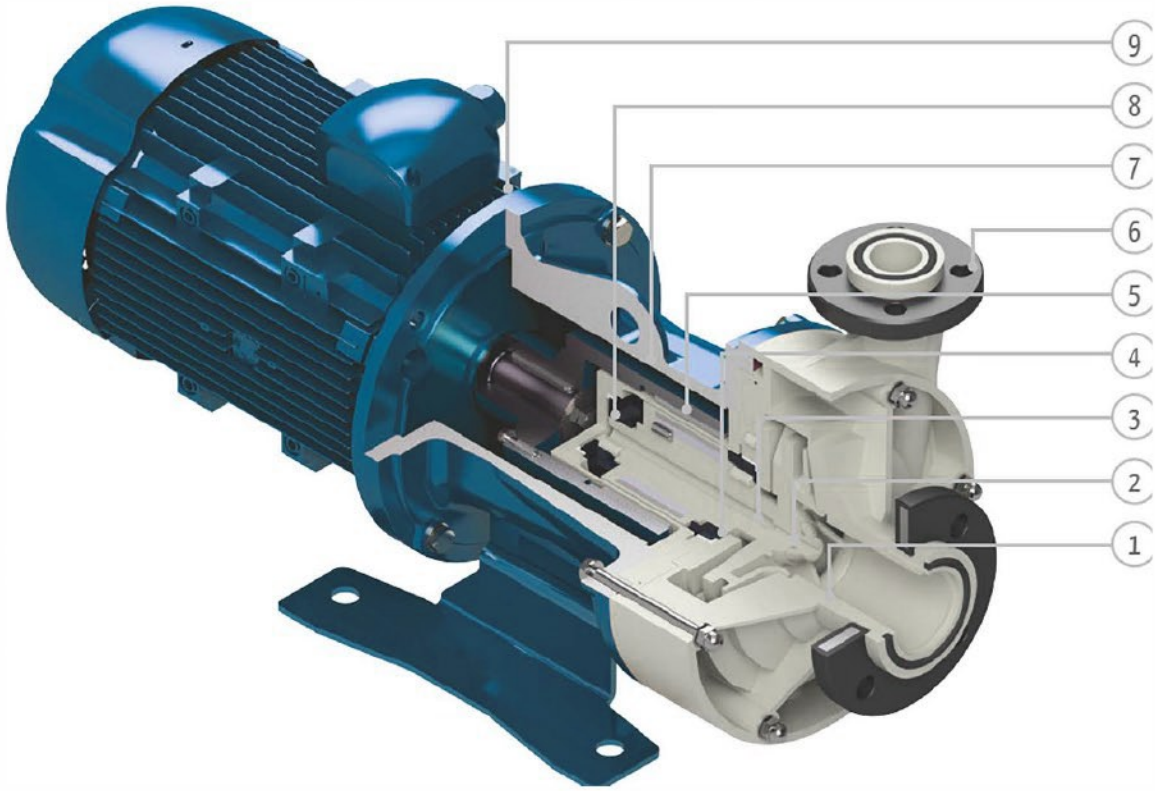
5 External magnetic core with magnetic bars in Nd-Fe-B rotating integrally with the motor, transmits the movement to the rotor.

6 Loose flanges in glass-reinforced PP, strengthened internally with a steel core.

7 Intermediate adaptor in aluminium equipped with support feet in Carbon steel

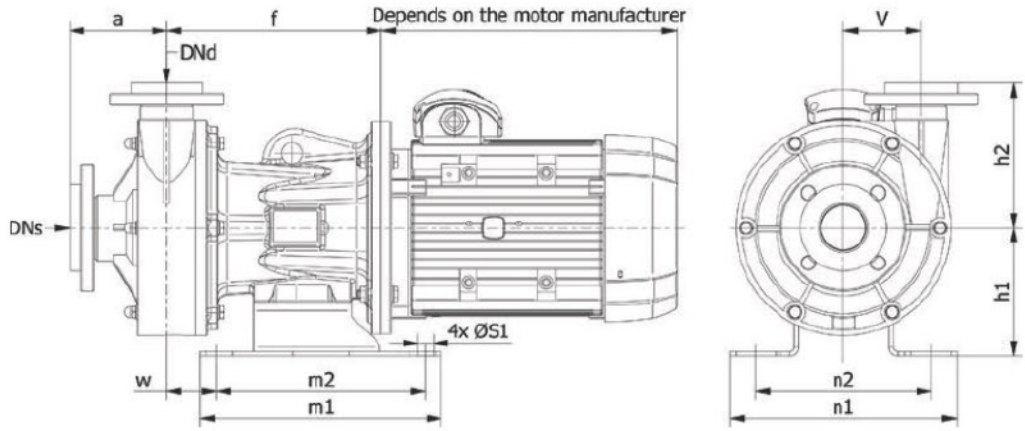
8 Static guide bushings in SiC (Al_2O_3 available on request).

9 Three-phase asynchronous electric motor, in compliance with IEC (NEMA available on request).

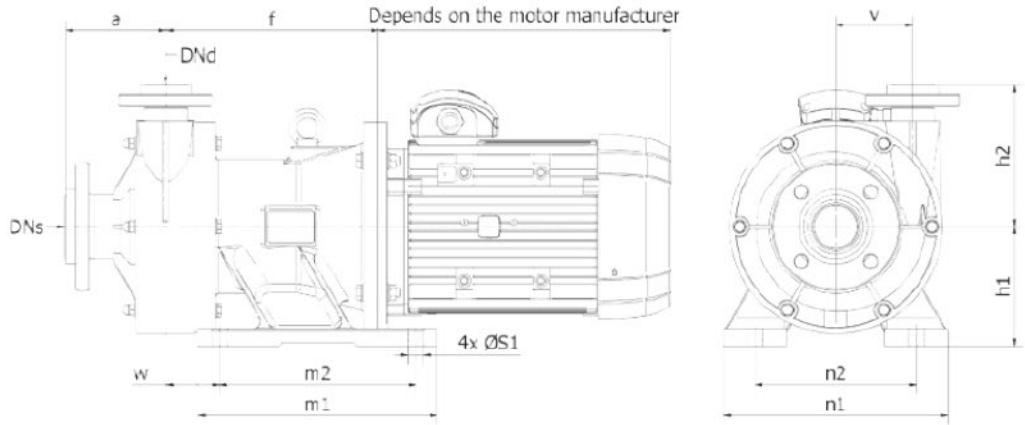


Overall dimensions

SMMB-L



SMMB-N



Model	DNs	DNd	Frame	a[2]	f	h1	h2	m1	m2	n1	n2	w	S1	V
25-125[1]	40	25	80M÷90L	105	185	130	132	250	200	200	150	70	14	75
			100L÷112M		291	180		340	280	320	230	66		
32-125	50	32	100L÷112M	137	296	180	173	340	280	320	230	71	22	86
			132S÷132M											
40-130	50	40	100L÷112M	137	296	180	186	340	280	320	230	71	22	86
			132S÷132M											
40-160	65	40	100L÷112M	142	303	180	201	340	280	320	230	78	22	110
			132S÷132M											
			160M÷160L		352	215		410	320	370	270	122		
50-160	65	50	100L÷112M	142	303	180	210	340	280	320	230	78	22	110
			132S÷132M											
			160M÷160L		352	215		410	320	370	270	122		
65-125	100	65	132S÷132M	165	321	212	212	340	280	320	230	96	22	0
			160M÷160L		370			410	320	370	270	140		
65-160	100	65	132S÷132M	165	321	238	238	340	280	320	230	96	22	0
			160M÷160L		370			410	320	370	270	140		

General notes

1 Available only for SMMB-L

2 Only for PP pumps with DIN 2501 Flange.

A All dimensions are in millimeters.

B Threaded connection dimensions are provided on request.

C Connection flanges according to DIN 2501 PN16 or ANSI/ASME B16.5 Class 150