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Construction

Self-priming swimming pool pumps with built-in strainer and motor insulated from pumped water. The pump is made with high quality plastic materials, corrosion and sand erosion resistant. With stainless steel diffuser.

Applications

- For water circulation in swimming pool filtration systems.
- For clean or slightly dirty water with solids in suspension.

Operating conditions

Water temperature up to 60 °C.
Ambient temperature up to 40 °C.
Maximum permissible pressure in the pump casing 2,5 bar.
Continuous duty.

Motor

2-pole induction motor, 50 Hz (n = 2800 1/min).

MPC: three-phase 230/400 V ± 10%.

MPCM: single-phase 230 V ± 10%, with thermal protector.
Capacitor inside the terminal box.

Insulation class F.

Protection IP X4.

Constructed in accordance with EN 60 335-2-41.

Patents: EP 0 460 597
US 5 226 790

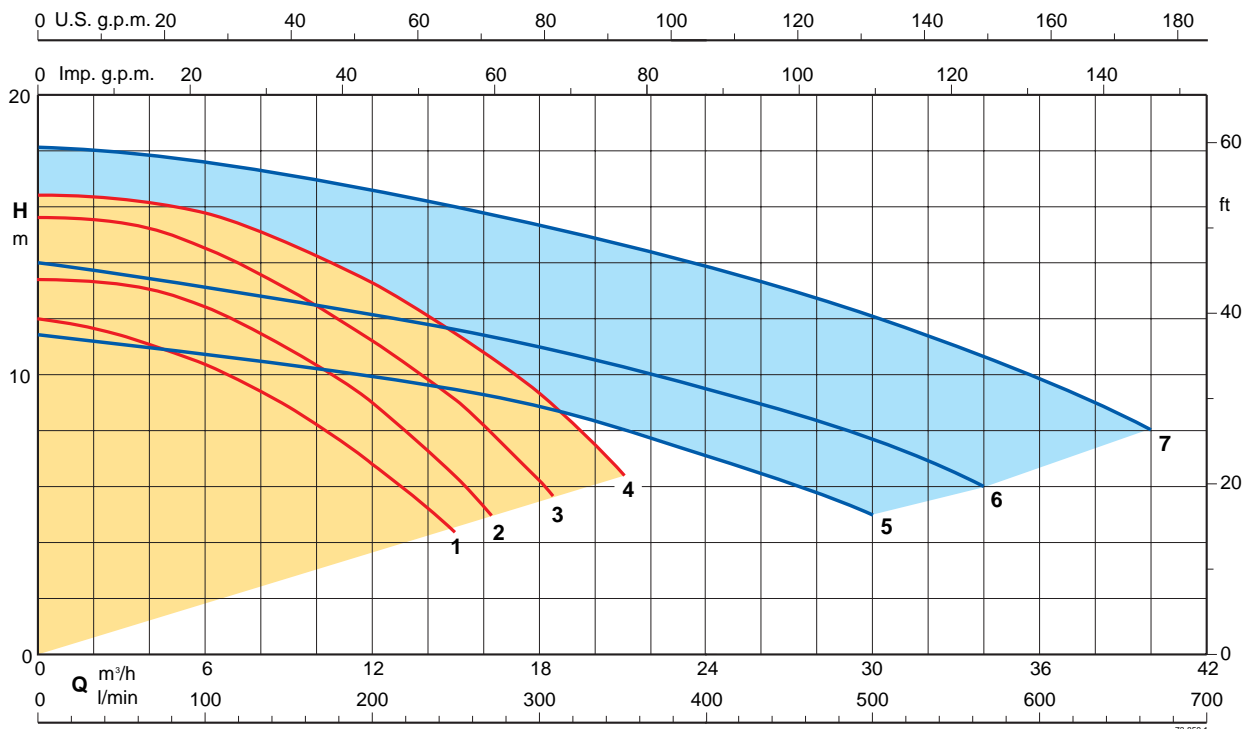
Certification marks for MPCM, up to 1,5 kW:



Materiali

Component	Material
Pump casing	Glass reinforced
Diffuser cover	thermoplastic
Impeller	PPO-GF30, NORYL
Strainer cover	Transparent polycarbonate, LEXAN
Strainer basket	Polypropylene
Diffuser funnel and wear-ring	Cr-Ni-Mo steel AISI 316
Mechanical seal	Ceramic alumina, Carbon, FPM

Coverage chart $n \approx 2800$ rpm



Performance $n \approx 2800$ rpm

	3~ 230 V 400 V		1~ 230 V P ₁		P ₂		Q m ³ /h l/min	H							
	A	A	A	kW	kW	HP		0	3	6	9	12	15	18	21
MPC 1E	2,8	1,6	MPCM 1E	3,3	0,73	0,37	0,5	11,9	11,4	10,3	8,9	6,8	4,2		
MPC 2E	3	1,7	MPCM 2E	4,5	1	0,55	0,75	13,4	13,3	12,4	10,9	9	6,3		
MPC 3E	3,7	2,2	MPCM 3E	5,4	1,2	0,75	1	15,6	15,5	14,5	13	11,2	9,1	6,2	
MPC 4E	5	2,9	MPCM 4E	7	1,6	1,1	1,5	16,4	16,2	15,8	14,7	13,3	11,4	9,3	6,4

	3~ 230 V 400 V		1~ 230 V P ₁		P ₂		Q m ³ /h l/min	H										
	A	A	A	kW	kW	HP		0	3	9	15	18	21	24	27	30	34	40
MPC 5	5	2,9	MPCM 5	7	1,6	1,1	1,5	11,5	11	10,5	9,5	9	8	7	6	5		
MPC 6	6,4	3,7	MPCM 6	9,2	2	1,5	2	14	13,5	12,5	11,5	11	10,5	9,5	8,5	7,5	6	
MPC 7	9,15	5,3	MPCM 7	14	3	2,2	3	18,2	18	17	16	15,5	14,5	14	13	12	10,5	8

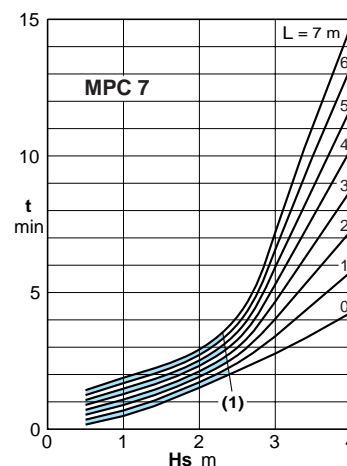
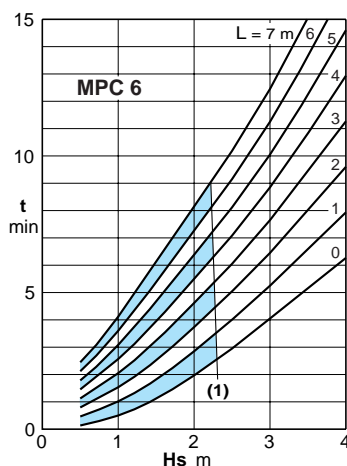
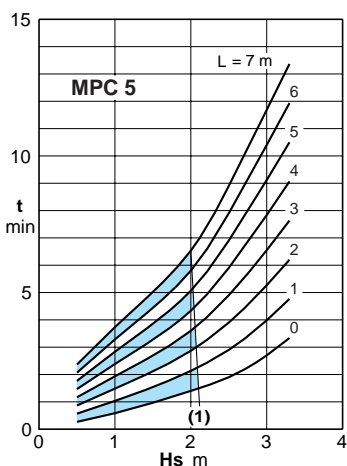
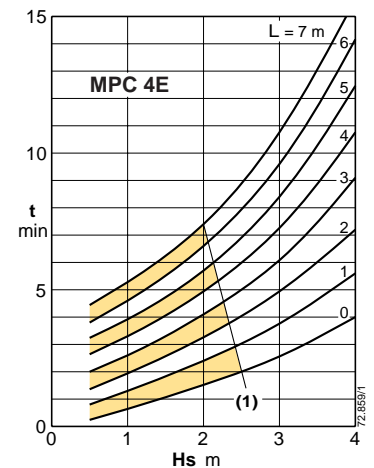
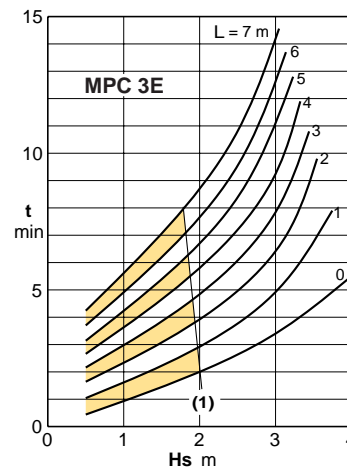
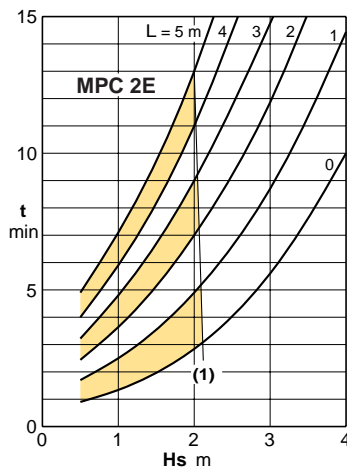
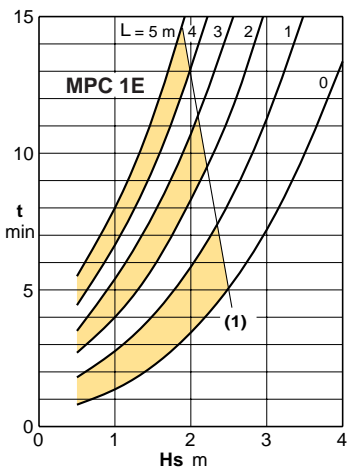
P₁ Max. power input.

P₂ Rated motor power output.

H Total head in m.

Tolerances according to ISO 9906, annex A.

Self-Priming Capability with the pump located above the water level

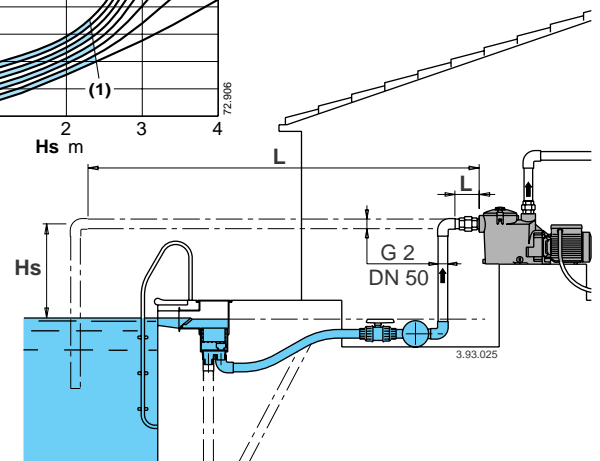


(1) Application limit for automatic self-repriming at each start-up, without check valve.

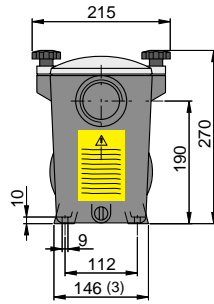
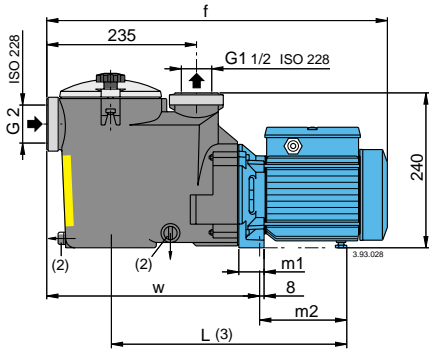
L (m) Horizontal length of suction pipe above the water level.

H_s (m) Suction lift.

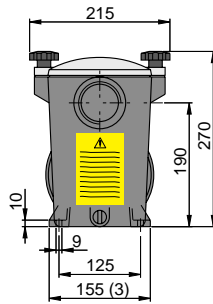
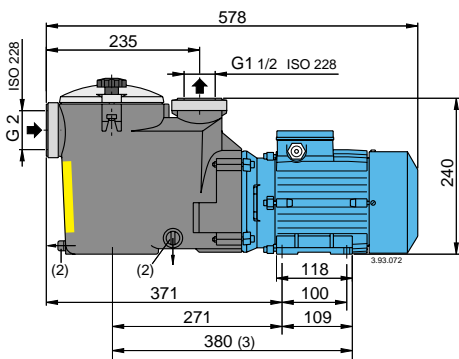
t (min) Self-priming time.



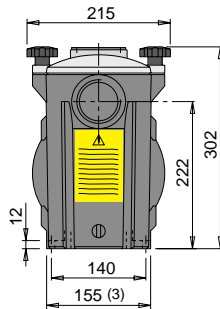
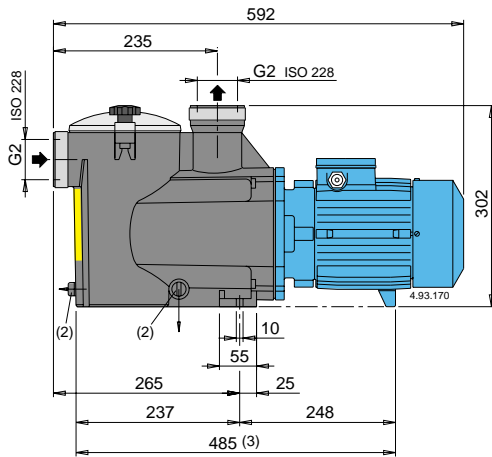
Dimensions and weights



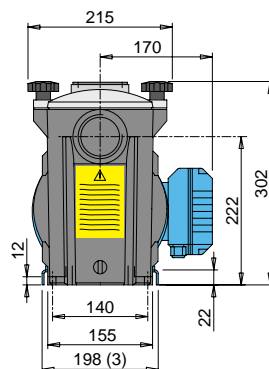
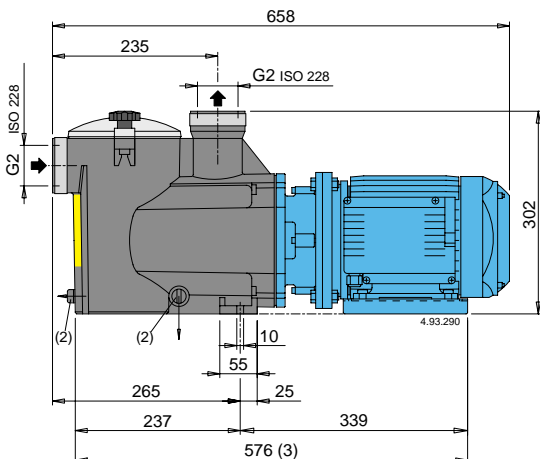
TYPE	mm					kg	
	f	L	m1	m2	w	MPC	MPCM
MPC 1E - MPCM 1E	498	348	34	122	326	8,9	9
MPC 2E - MPCM 2E	530	367	39	136	331	10,2	11,3
MPC 3E - MPCM 3E	530	367	39	136	331	11,2	12,2



MPCM 4E 17,5 kg
MPC 4E 16,0 kg



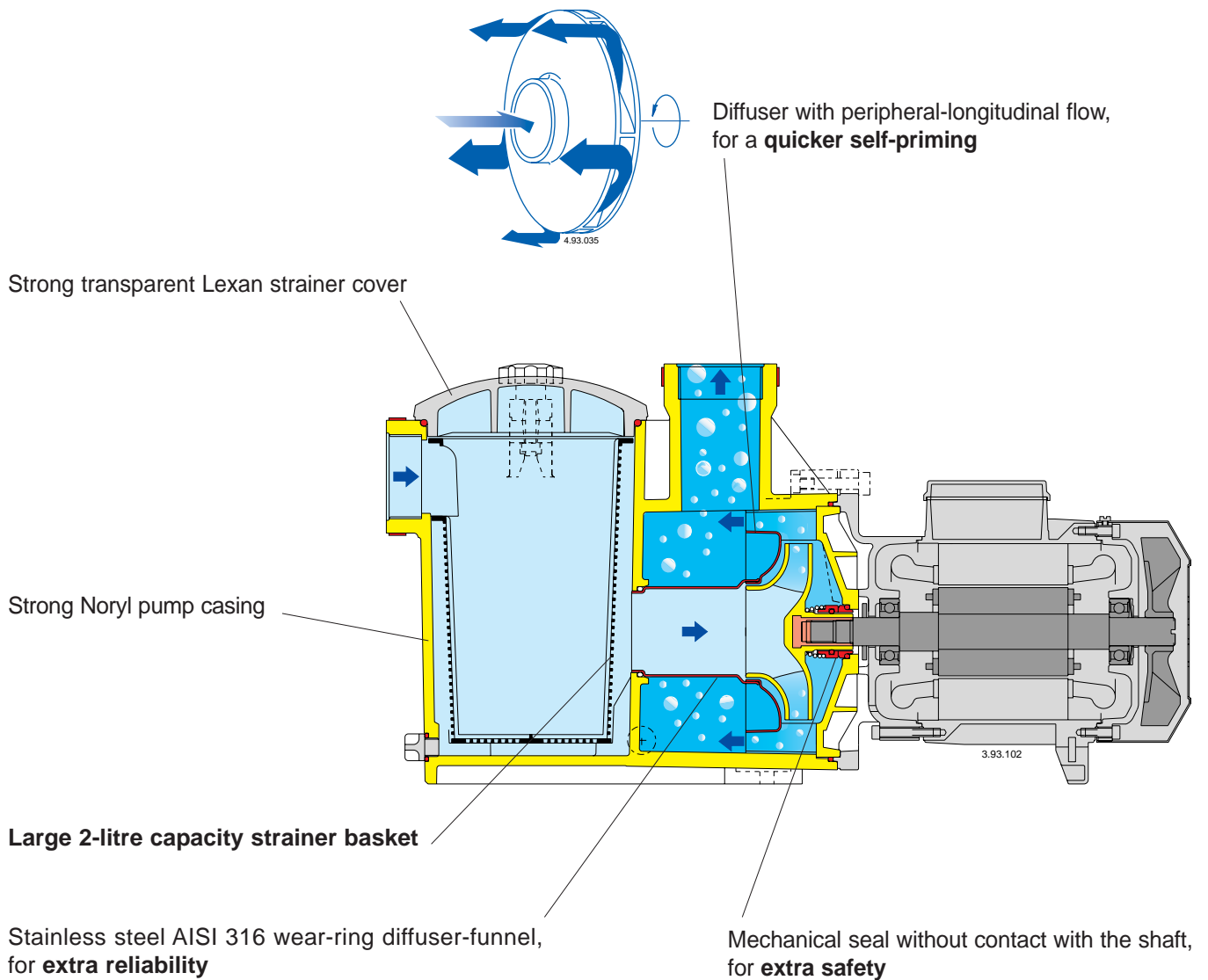
MPCM 5 18,9 kg
MPC 5 17,4 kg
MPCM 6 20,7 kg
MPC 6 19,6 kg
MPC 7 20,7 kg



MPCM 7 29,7 kg

(1) Net weight (2) Draining (3) Minimum base

Features





Construction

Close-coupled self-priming centrifugal pumps with built-in strainer.

Applications

For water circulation in swimming pool filtration systems.
For clean or slightly dirty water with solids in suspension.

Operating conditions

Liquid temperature up to 60° C.
Ambient temperature up to 40° C.
Total suction lift up to 7 m.
Maximum permissible working pressure up to 6 bar.
Continuous duty.

Motor

2-pole induction motor, 50 Hz (n = 2900 rpm).

NMP: three-phase 230/400 V ± 10% up to 3 kW;
400/690 V ± 10% from 4 to 11 kW;

NMPM: single-phase 230 V ± 10%, with thermal protector.
Insulation class F.

Protection IP 54.

Constructed in accordance with: IEC 60034.

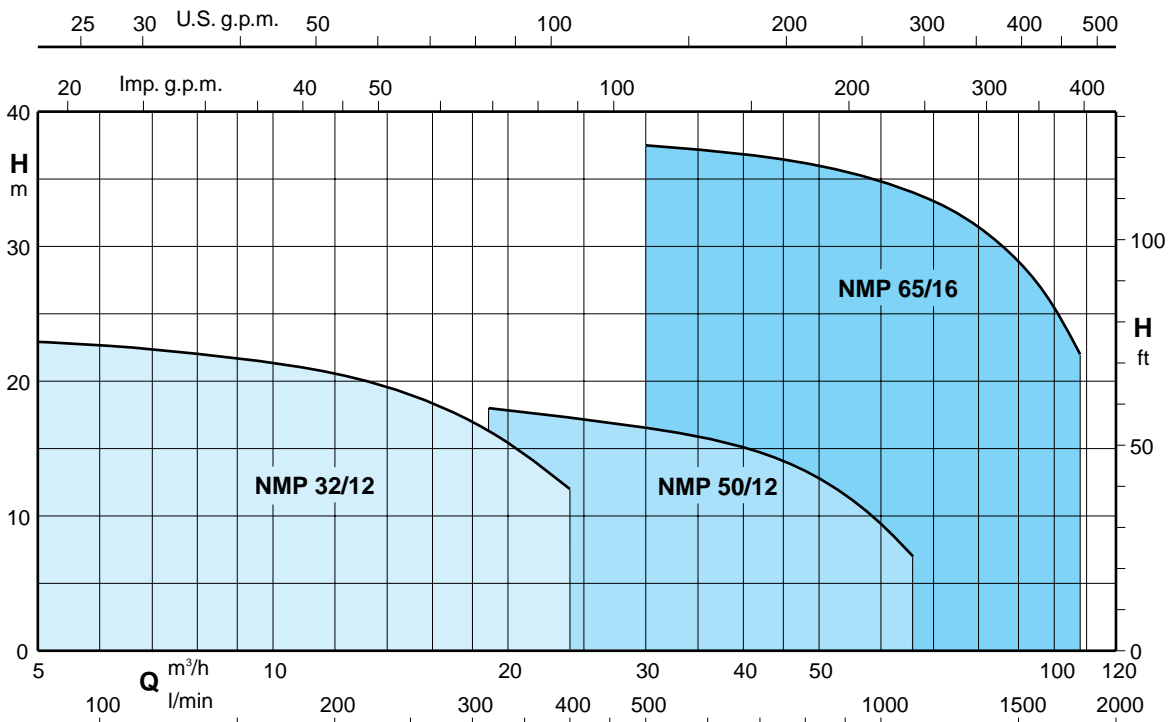
Special features on request

- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Protection IP 55.
- Special mechanical seal
- Higher liquid or ambient temperatures.

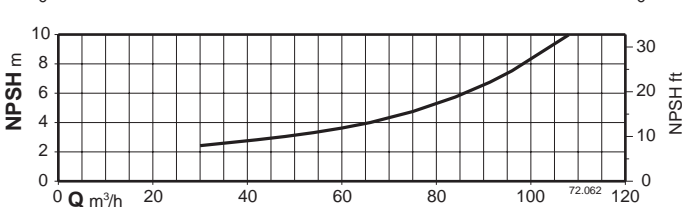
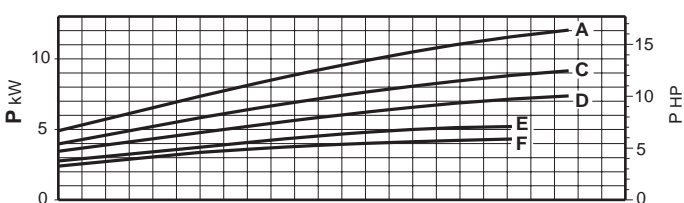
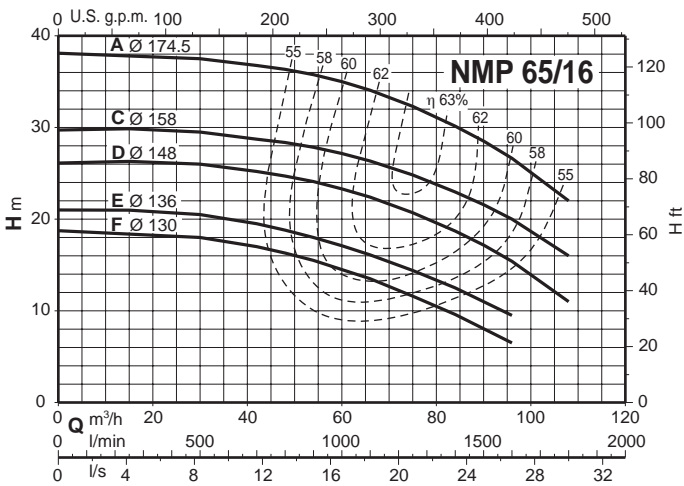
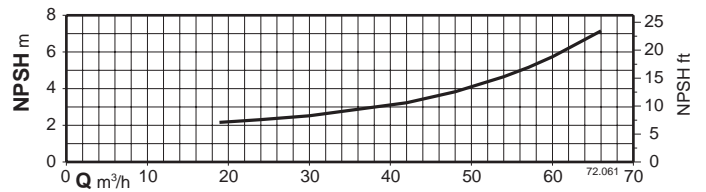
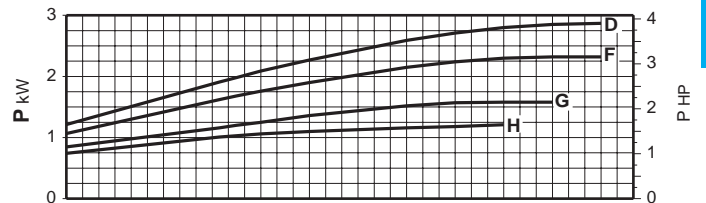
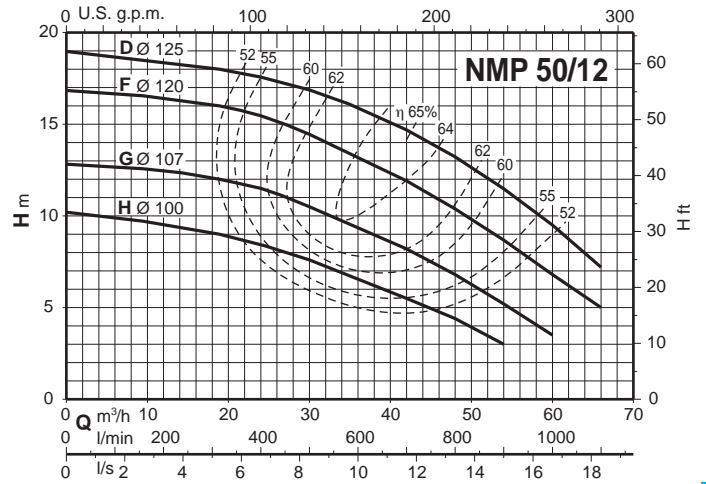
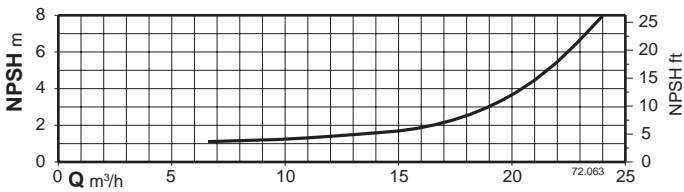
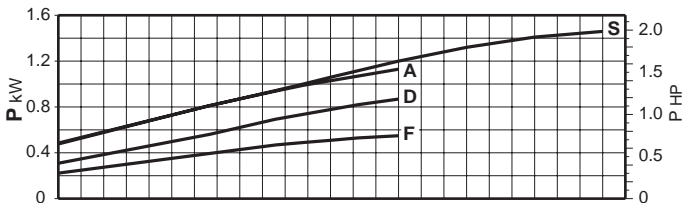
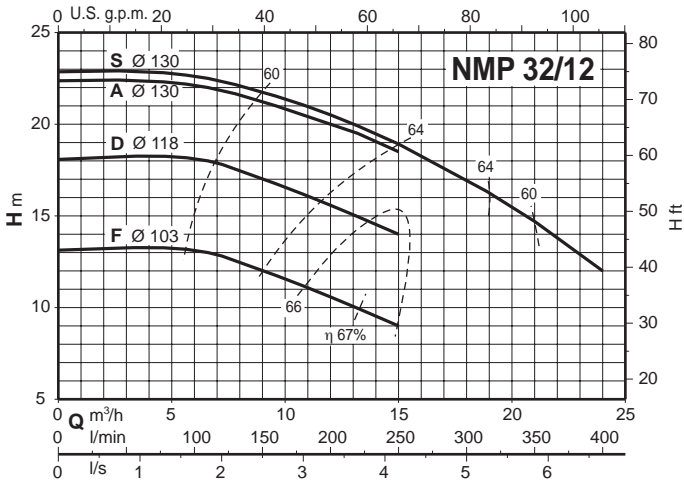
Materials

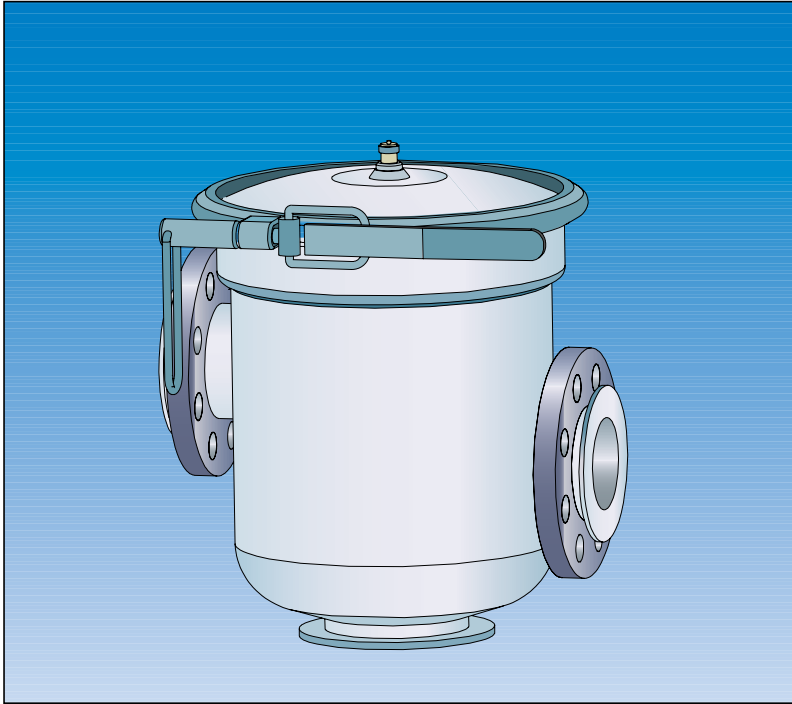
Components	NMP	B-NMP
Pump casing	Cast iron	Bronze
Lantern bracket	GJL 200 EN 1561	G-Cu Sn 10 EN 1982
Impeller	Cast iron	Bronze
	GJL 200 EN 1561	G-Cu Sn 10 EN 1982
	Brass P- Cu Zn 40 Pb 2 UNI 5705 for NMP 32/12	
Shaft	Chrome-nickel steel	Cr-Ni-Mo steel
	1.4305 EN 10088 (AISI 303)	1.4401 EN 10088 (AISI 316)
Strainer cover	Cast iron	Bronze
	GJL 200 EN 1561	G-Cu Sn 10 EN 1982
Strainer	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)	
Mechanical seal	Carbon - Ceramic - FPM	

Coverage chart $n \approx 2900$ rpm



Characteristic curves $n \approx 2900$ rpm





Construction

Pre-filters with removable basket, constructed in stainless steel. Loose ring flange connections. Clamp type closing with lever and double adjustment clamp. Inner basket with $\varnothing 6$ mm holes.

Applications

For water circulation pump in filtration plants in swimming pools. To prevent foreign bodies from entering the pump and the plant.

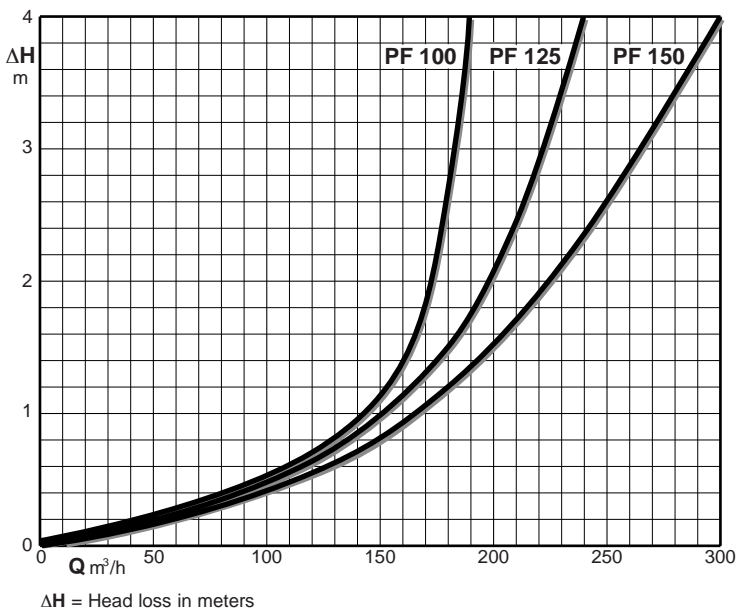
Operating conditions

Max working pressure: 3 bar.
 Max flow: 180 m³/h for PF 100.
 240 m³/h for PF 125.
 300 m³/h for PF 150.

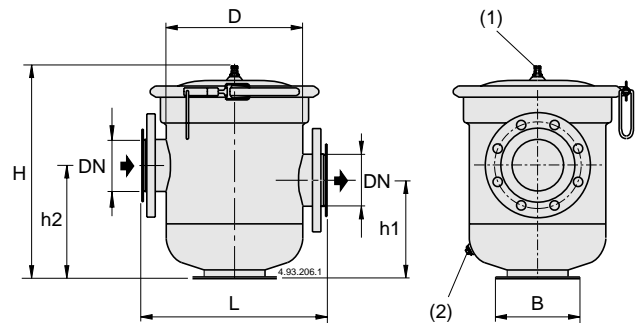
Materials

Components	Materials
Pre-filter body PF 100-304 PF 125-304 PF 150-304	Stainless steel AISI 304
Pre-filter body PF 100-316 PF 125-316 PF 150-316	Stainless steel AISI 316
Strainer basket	Stainless steel AISI 316

Diagram of head loss



Dimensions and weights



Flanges UNI 6089 PN 10

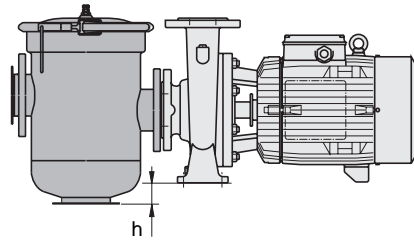
Type	mm							kg
	DN	H	h1	h2	L	D	B	
PF 100	100	530	247	287	440	292	185	17,5
PF 125	125	530	247	287	440	292	185	17,7
PF 150	150	550	260	300	500	350	210	23,3

1 Relief valve

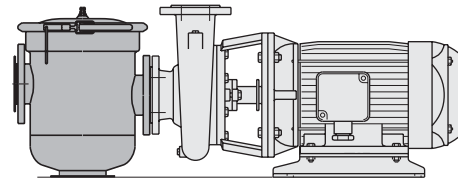
2 Draining plug

Recommended pumps and pre-filters

Pump	Pre-filter type	h mm
NM 80/16EE NM 80/16CE-DE NM 80/16BE	PF 100	67
NM4 100/20BE-CE NM4 100/20AE	PF 125	47
NM4 100/25BE NM4 100/25AE	PF 125	22
NM4 125/25DE-EE NM4 125/25CE NM4 125/250AE-BE	PF 150	10 10 -



NM 80/16BE-CE-DE-EE
NM4 100/20AE-BE-CE
NM4 100/25AE-BE
NM4 125/25CE-DE-EE

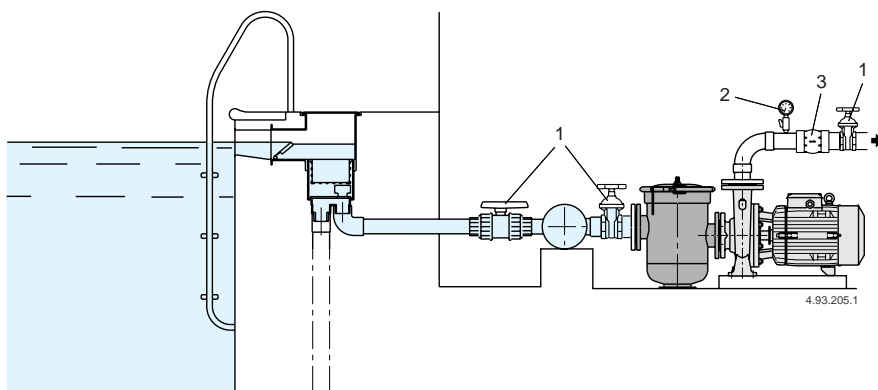


NM4 125/250AE-BE

4.93.181

Examples of installations

Operation with positive suction head



1 Gate valve 2 Pressure gauge 3 Check valve 4 Foot valve

Operation with suction lift

