

09/2016



water passion



Construction

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

Inner basket with Ø 3 mm holes.

NMP: version with pump casing and lantern bracket in cast iron, with cataphoresis coating.

B-NMP: version with pump casing and lantern bracket in bronze (the pumps are supplied fully painted).

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 ($n \approx 2900$ rpm).

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

NMPM: single-phase 230 V $\pm 10\%$, with thermal protector.

Insulation class F.

Protection IP 54.

Classification scheme IE2 for three-phase motors from 0,75 kW to 5,5 kW, IE3 from 7,5 kW.

Constructed in accordance with: EN 60034-1; EN 60034-30.
EN 60335-1, EN 60335-2-41.

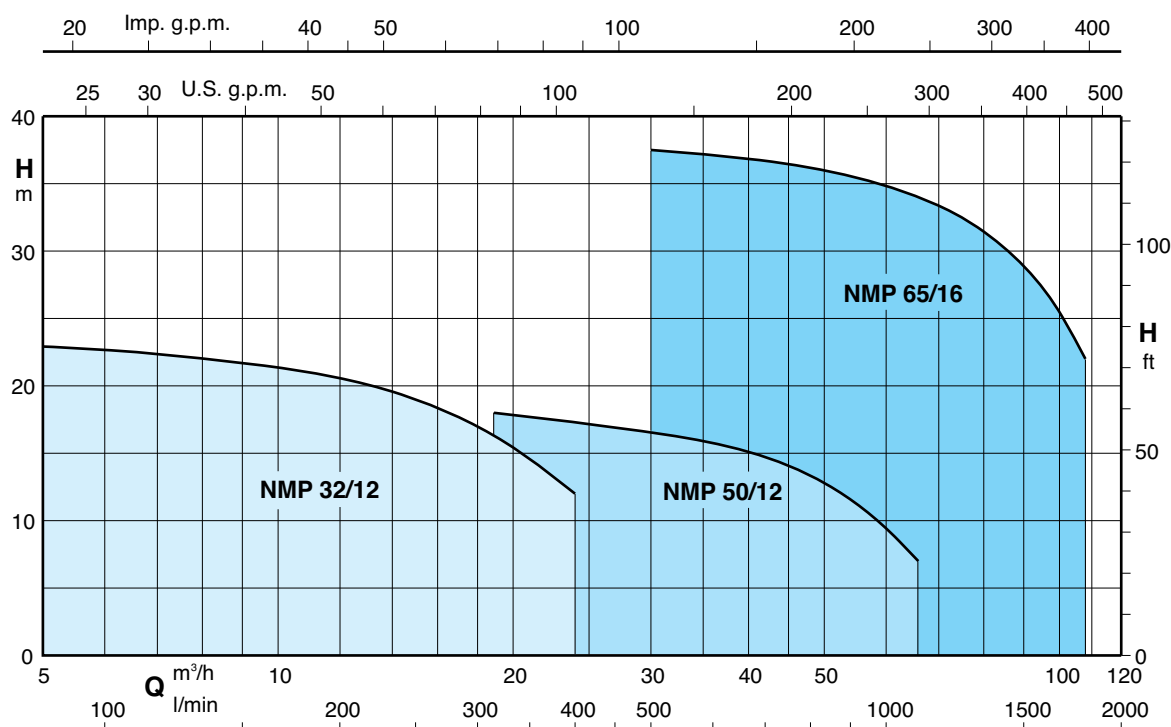
Special features on request

- 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 1.4305 EN 10088 (AISI 303)	Cr-Ni-Mo steel 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



Performance $n \approx 2900$ rpm

3 ~	230V 400V		1 ~	230V P ₁		P ₂		Q m³/h l/min	6,6	9,6	10,8	12	13,2	15	18,9	21	24	30	42	48	54	60	66	75	84	96	108
	A	A		A	kW	kW	HP		110	160	180	200	220	250	315	350	400	500	700	800	900	1000	1100	1250	1400	1600	1800
B-NMP 32/12FE	3,3	1,9	B-NMPM 32/12FE	4,5	0,8	0,55	0,75	H m	13	12	11	10,5	10	9													
B-NMP 32/12DE	3,3	1,9				0,75	1		12	11	10	9,5	9	8													
B-NMP 32/12AE	4,7	2,7	B-NMPM 32/12DE	5,8	1,3	0,75	1		18	17	16	15,5	15	14													
									17	16	15	14,5	14	13													
B-NMP 32/12SE	7,5	4,3	B-NMPM 32/12AE	7,4	1,85	1,1	1,5		22	21	20,5	20	19,5	18,5													
			B-NMPM 32/12SE	9,2	2	1,5	2		21,5	20,5	19,5	19	18,5	17,5													
B-NMP 50/12HE	4,7	2,7	B-NMPM 50/12HE	7,4	1,85	1,1	1,5		22,5	21,5	21	20,5	20	19	16*	15*	12*										
B-NMP 50/12GE	7,5	4,3	B-NMPM 50/12GE	9,2	2	1,5	2								9	9	8,5	7,5	5,5	4,5	3						
B-NMP 50/12F/A	9,15	5,3				2,2	3								12	12	11,5	10,5	8	7	5	3,5*					
B-NMP 50/12D/A	11,5	6,6				3	4								16	16	15,5	14,5	12	10,5	8,5	6,5*	5*				
B-NMP 65/16F/A		9,6				4	5,5								18	18	17,5	16,5	15	13	11,5	9,5*	7*				
B-NMP 65/16E/A		10,8				5,5	7,5											18	17	16,5	15,5	14,5	13,5	11,5	9,5	6,5*	
B-NMP 65/16D/A		14,3				7,5	10											20,5	19,5	19	18	17	16	14,5	12,5	9,5*	
B-NMP 65/16C/B		18,5				9,2	12,5											26	25	24,5	24	23	22	21	19	16*	11*
B-NMP 65/16A/B		21,5				11	15											29,5	28,5	28	27,5	27	26,5	25	23,5	20*	16*
																		37,5	36,5	36	35,5	35	34	32,5	30,5	27*	22*

P₁ Maximum power input.

B-NMP = Bronze construction.

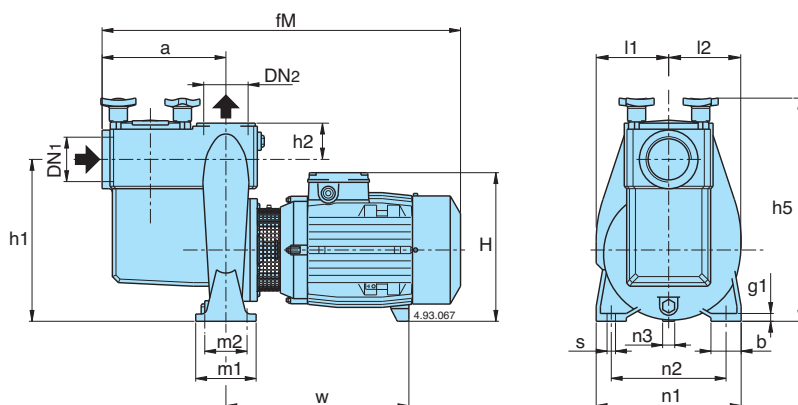
* Maximum suction lift 2-3 m.

P₂ Rated motor power output.

H Total head in m.

Tolerances according to UNI EN ISO 9906:2012

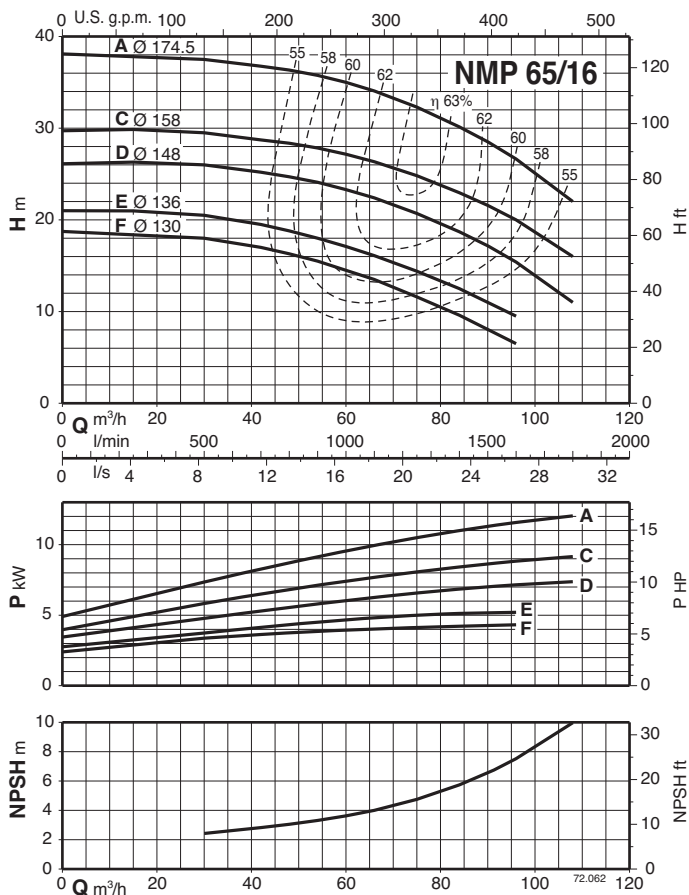
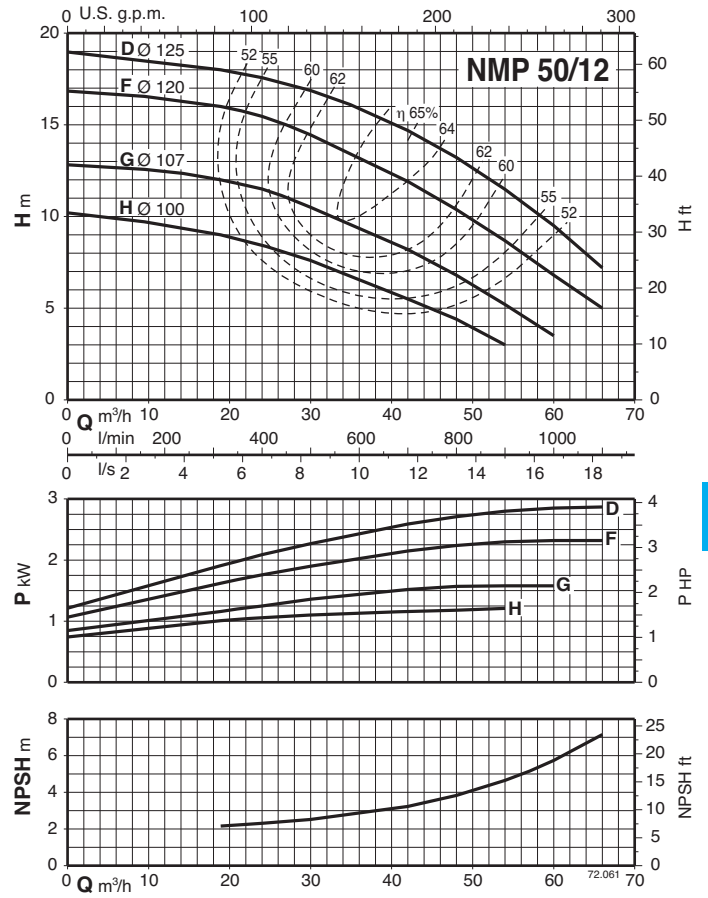
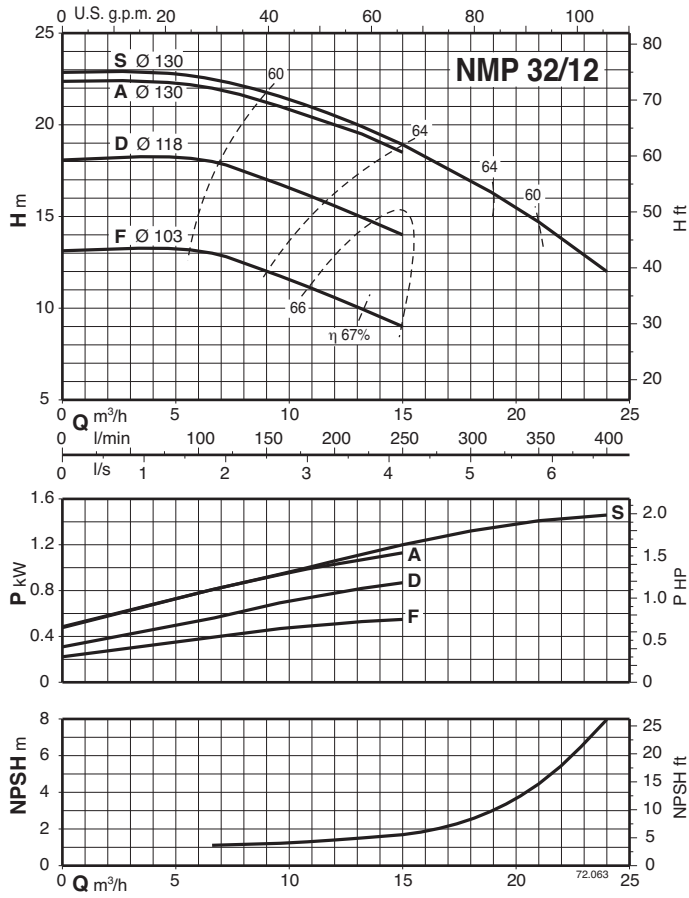
Dimensions and weights



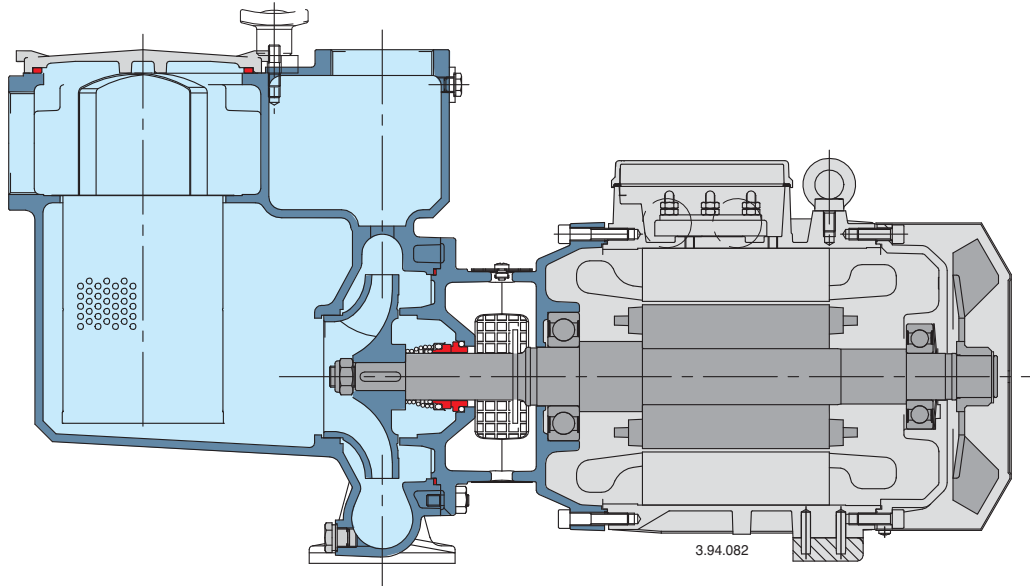
TYPE	DN ₁	DN ₂	mm																	
	ISO 228		a	fM	h ₁	h ₂	H	h ₅	m ₁	m ₂	n ₁	n ₂	n ₃	b	s	l ₁	l ₂	w	g ₁	
B-NMP 32/12AE-DE-FE B-NMP 32/12SE	G 2	G 2	195	510	230	50	228	320	100	70	190	140	30	50	14	106	99	220	12	
B-NMP 50/12GE-HE B-NMP 50/12F/A B-NMP 50/12D/A	G 2 ¹ / ₂	G 2 ¹ / ₂	205	540 580 602	262	60	240 240 250	360	100	70	240	190	37 37 20	50	14	120	117	234 274 298	12	
B-NMP 65/16F/A B-NMP 65/16D/A-E/A B-NMP 65/16C/B B-NMP 65/16A/B	G 3	G 3	320	717 748 858 908	360	80	298 320 345 345	470	125	95	280	212	60 49 43 43	65	14	165	164	298 319 408 458	15	

TYPE	NMP kg	B-NMP kg
B-NMP 32/12FE	30	32
B-NMP 32/12DE	30	32
B-NMP 32/12AE	31	33
B-NMP 32/12SE	33	35
B-NMP 50/12HE	37	39
B-NMP 50/12GE	38,5	40
B-NMP 50/12F/A	41,5	44,5
B-NMP 50/12D/A	50,5	54,5
B-NMP 65/16F/A	79	89,5
B-NMP 65/16E/A	92	102
B-NMP 65/16D/A	97,5	107,5
B-NMP 65/16C/B	121	130
B-NMP 65/16A/B	127	137

Characteristic curves $n \approx 2900$ rpm



Features



Flexible

The option to choose between cast iron and bronze materials for the hydraulic parts in contact with the pumped liquid allows NMP series pumps to be selected for use with different types of liquids.

Stainless steel filter

A large capacity Stainless steel filter is fitted which is easy to remove for inspection and cleaning.

Exclusive design

An innovative, patented guard prevents contact with rotating parts, proving protection to the end user whilst allowing for inspection of the mechanical seal.

Reliable

The bearing and shaft are designed to ensure the reduction of the stress, providing high reliability under all operating conditions.