

NM, NMS

Close Coupled Centrifugal Pumps
with flanged connections



The electropumps NM, B-NM, NMS, B-NMS series comply with the European Regulation no. 547/2012.

Materials

Components	NM, NMS	B-NM, B-NMS
Pump casing Lantern bracket NM Casing cover for NMS	Cast iron GJL 200 EN 1561	Bronze CC480K EN 1982
Lantern bracket NMS	Cast iron GJL 200 EN 1561	
Impeller	Cast iron GJL 200 EN 1561	Bronze CC480K EN 1982
	Brass CW617N EN 12165 for 32/12, 32/16, 32/20, 32L/20, 40/20	
Shaft	Cr-Ni steel AISI 303	Cr Ni Mo steel AISI 316
	AISI 430 from 3 kW to 22 kW	
Mechanical seal	Carbon - Ceramic - NBR	
Counter-flanges	Steel 1.0044 EN 10025-2 (Fe 430B)	

Construction

Close-coupled centrifugal pumps; electric motor with extended shaft directly connected to the pump up to 22 kW, new bracket construction for standard motors (stub-shaft construction) from 30 to 75 kW with integrated thrust bearing.

Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733.

NM(S): version with pump casing and lantern bracket in cast iron.
B-NM(S): version with pump casing and lantern bracket/casing cover in bronze. (the pumps are supplied fully painted).

Connections: Flanges according to PN 10, EN 1092-2.

Counter-flanges (on request)

Sizes	Flanges
from NM 32/.. to NM 50/...	Screwed flanges EN 1092-1, PN 16
from NM 65/.. to NMS 100/...	Flanges for welding EN 1092-1, PN 10-16

Version with frequency converter (on request)

Applications

For clean liquids without abrasives, which are non-aggressive for the pump materials (solids content up to 0,2%). For water supply.

For heating, air conditioning, cooling and circulation plants.

For civil and industrial applications. For irrigation.

Operating conditions

Liquid temperature from -10 °C to +90 °C.

Ambient temperature up to 40° C.

Total suction lift up to 7 m.

Maximum permissible working pressure up to 10 bar (16 bar for NM 32L/16,20; NM 40/16,20; NM 50/12,16; NM 65/12,16,20,25; NM 80/16,20,25; NM 100/20).

Continuous duty.

Motor

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

NM, NMS: three-phase 230/400 V ± 10% up to 3 kW;

400/690 V ± 10% from 4 to 75 kW.

Insulation class F. Protection IP 54 (IP 55 for NMS).

Motor suitable for operation with frequency converter from 1,1 kW.

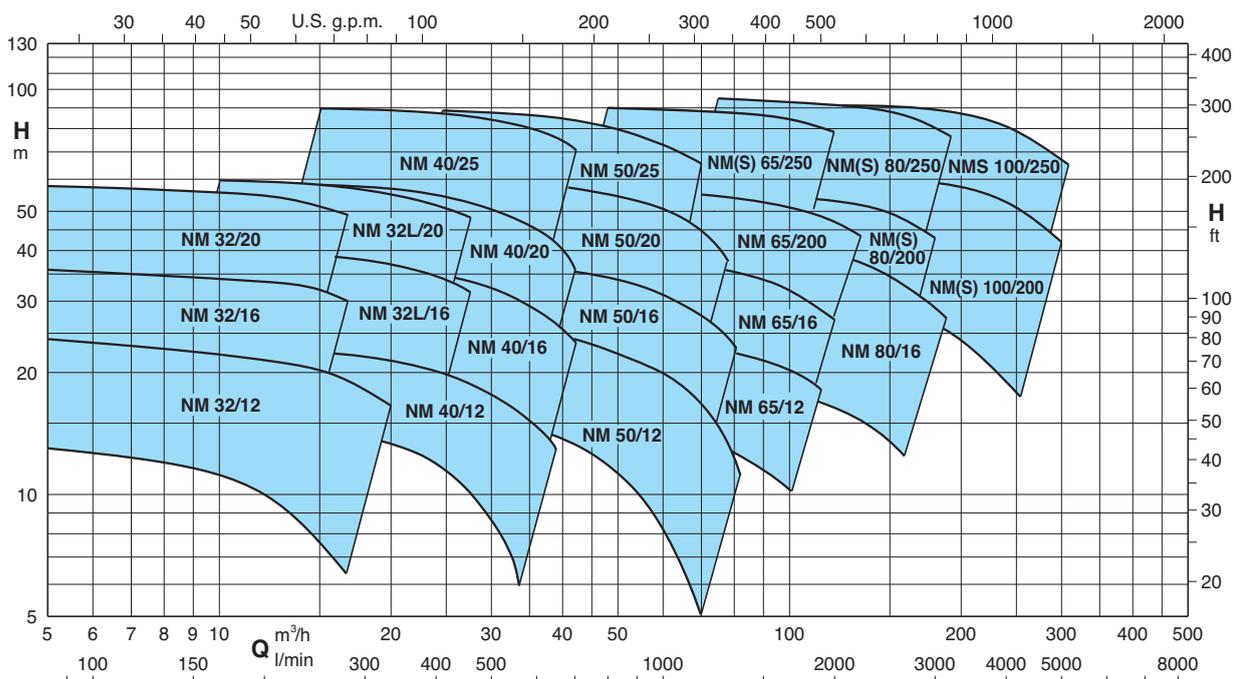
IE3 efficiency class for three-phase motors (IE2 up to 0,65 kW).

Constructed in accordance with: EN 60034-1; EN 60034-30-1.

Special features on request

- Other voltages. - Frequency 60 Hz (as per 60 Hz data sheet).
- Protection IP 55.- Special mechanical seal.
- Packed gland (only for NM standard construction).
- Single-phase motor (NMM) up to 1,8 kW.
- Higher or lower liquid or ambient temperatures.
- Motor suitable for operation with frequency converter up to 0,75 kW.

Coverage chart n ≈ 2900 rpm



Pumps with frequency converter

The **NM EI** pumps are available with power from 0,55 kW up to 37 kW, the pumps are equipped with **I-MAT** installed on board which allows to realize a variable-speed system extremely compact and efficient, ideal in applications of water supply and in the distribution of hot and cold water.

The pump is equipped with transducers suitable for operation and is already programmed at the factory.

Advantages

- Energy saving
- Compact design
- Easy to use
- Programmable to suit the system requirements
- Reliability

Costruction

The system comprises of:

- Pump
- Induction motor
- I-MAT Frequency converter
- Motor adapter for the motor mounting of the frequency converter
- Connection cable between frequency converter and induction motor
- Transducers

Main features

- Rated motor power output from 0,55 kW to 37 kW
- Control range from 1750 to 2900 rpm (2-pole)
- Protection against dry running
- Protection against operations with closed valve ports
- Protection against system leakages
- Protection against overcurrent in the motor
- Protection against overvoltage and undervoltage of the power supply
- Protection against current unbalances between phases

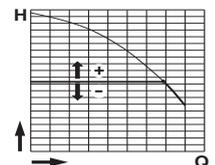


Operating modes



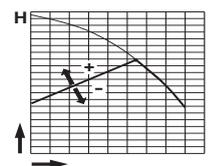
Constant pressure mode with pressure transducer

In this mode, the system maintains the preset pressure when the flow required by the installation changes.



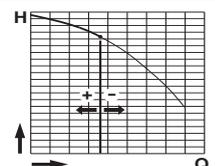
Proportional pressure mode with pressure transducer

In this mode the system changes the working pressure according to the required flow rate.



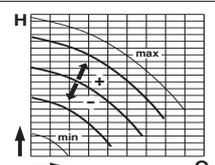
Constant flow mode with flow meter

In this mode the system maintains a constant flow rate value in a point of the installation according to the required pressure.



Fixed speed mode with setting of the speed preferential rotation.

In this mode, by changing the working frequency, you may choose any operational curve included within the working range.



Constant temperature mode with temperature transducer

In this mode the system keeps the temperature constant inside a system by changing the speed of the pump.

Performance n ≈ 2900 rpm

B-NM	NM	P ₂		Q m³/h l/min	6,6	7,5	8,4	9,6	10,8	12	13,2	15	16,8	18,9	21	24	27	30
		kW	HP		110	125	140	160	180	200	220	250	280	315	350	400	450	500
B-NM 32/12F	NM 32/12FE	0,55	0,75	H m	12,5	12,5	12	11,5	11	10	9	7,5						
B-NM 32/12D	NM 32/12DE	0,75	1		18	18	17,5	17	16,5	16	15,5	14						
B-NM 32/12A/A	NM 32/12A/A	1,1	1,5		23	23	22,5	22	21,5	21	20,5	19						
B-NM 32/12S/A	NM 32/12S/A	1,5	2		23,5	23,5	23	22,5	22	21,5	21	20,5	19	18,5	16,5	13		
B-NM 32/16B/A	NM 32/16B/A	1,5	2		29,5	29,5	29	28,5	27,5	27	26	25*	22,5*					
B-NM 32/16A/B	NM 32/16A/B	2,2	3		35,5	35,5	35	34,5	34	33,5	33	32*	30*					
B-NM 32/20D/B	NM 32/20D/B	2,2	3		38	37,5	37	36	35	33,5	32							
B-NM 32/20C/A	NM 32/20C/A	3	4		45	44,5	44	43,5	42,5	41	40	38	36					
B-NM 32/20A/B	NM 32/20A/B	4	5,5		57,5	57	56	55,5	55	54,5	53,5	51,5	49					

B-NM	NM	P ₂		Q m³/h l/min	9,6	10,8	12	13,2	15	16,8	18,9	21	24	27	29	32	37,8	39
		kW	HP		160	180	200	220	250	280	315	350	400	450	483	533	630	650
B-NM 32L/16C	NM 32L/16C	2,2	3	H m	25,1	24,9	24,7	24,4	23,8	23	21,8	20,3	17,3	13,4				
B-NM 32L/16B	NM 32L/16B	3	4		30,4	30,3	30,2	30	29,6	29	28,1	26,8	24,2	20,8	17,9			
B-NM 32L/16A	NM 32L/16A	4	5,5		39,9	39,9	39,8	39,6	39,3	38,8	37,9	36,8	34,7	31,9	29,7	25,6		
B-NM 32L/20C	NM 32L/20C	4	5,5		42,1	41,8	41,5	41	40,2	38,9	37	34,5	29,7	23,8				
B-NM 32L/200B	NM 32L/20B	5,5	7,5		51,7	51,6	51,4	51,2	50,7	50	48,8	47	43,2	37,8	33,5			
B-NM 32L/200A	NM 32L/20A	7,5	10		59,4	59,4	59,4	59,4	59,2	58,8	58	56,6	53,4	48,6	44,6	37,7		

B-NM	NM	P ₂		Q m³/h l/min	15	16,8	18,9	21	24	27	30	33	37,8	39	42	45	48	54
		kW	HP		250	280	315	350	400	450	500	550	630	650	700	750	800	900
B-NM 40/12F/A	NM 40/12F/B	1,1	1,5	H m	14	13,5	13	12	11	9,5	8	6						
B-NM 40/12C/A	NM 40/12C/B	1,5	2		17,5	17	16,5	16	15	13,5	12	10,5	7,5	6,5				
B-NM 40/12A/B	NM 40/12A/C	2,2	3		22	22	21,5	21	20	19	18	16,5	14	13	11,5			
B-NM 40/16C/B	NM 40/16C/C	2,2	3		23	22,5	22	21,5	20	18,5	16,5	14,5	11	10				
B-NM 40/16B/A	NM 40/16B/B	3	4		29	28,8	28	27,5	26,5	25	23,5	21,5	18	17	14			
B-NM 40/16A/B	NM 40/16A/C	4	5,5		37	36,5	36,5	36	35	33,5	32	30,5	27	26	23,5	20	17	
B-NM 40/20D/B	NM 40/20D/B	4	5,5		39	38	37	35,5	33,5	30,5	27	22,5	14					
B-NM 40/20C/B	NM 40/20C/B	4	5,5		41,5	40,5	39,5	38	36	33,5								
B-NM 40/200B/A	NM 40/20B/A	5,5	7,5		50	49,5	48,5	47,5	45,5	43,5	41,5	37,5	30,5					
B-NM 40/200AR/A	NM 40/20AR/A	5,5	7,5		55	54,5	54	53	51	49								
B-NM 40/200A/A	NM 40/20A/A	7,5	10		57,5	57	56,5	55,5	54,5	52,5	50,5	48	42,5	40,5	35			
B-NM 40/25C/C	NM 40/25C/C	9,2	12,5		61	61	60,5	59,5	58,5	56,5	53,5	49,5	41,5	40	33,5			
B-NM 40/25B/C	NM 40/25B/C	11	15		69,5	69,5	69	68,5	67	65,5	63,5	60,5	53,5	51	45			
B-NM 40/25A/C	NM 40/25A/C	15	20		90	90	89,5	89	88,5	87	85	83	77,5	76	70,5			

B-NM	NM	P ₂		Q m³/h l/min	24	27	30	33	37,8	42	48	54	60	66	69	72	75	78	81	84
		kW	HP		400	450	500	550	630	700	800	900	1000	1100	1150	1200	1250	1300	1350	1400
B-NM 50/12F/B	NM 50/12F/C	2,2	3	H m			15,5	15	14	13,5	12	10	8	6						
B-NM 50/12D/A	NM 50/12D/B	3	4				20	19,5	18,5	18	16,5	14,5	13	10,5	9	8				
B-NM 50/12A/B	NM 50/12A/C	4	5,5				24	24	23	22,5	21	19,5	17,5	15	14	12,5	11,5	10		
B-NM 50/12S/B	NM 50/12S/C	4	5,5				26,5	26	25,5	24,5	23,5	22	20	18	16,5	15,5	14	13	11	
B-NM 50/160B/B	NM 50/16B/B	5,5	7,5				31	30,5	29,5	28	26	24	21,5	19	17,5	15,5	13,5	11,5	9,5	
B-NM 50/160A/B	NM 50/16A/B	7,5	10				38,5	38	37,5	36,5	34,5	32,5	30	27	25,5	24	22,5	20,5	19	
B-NM 50/200B/C	NM 50/20B/C	9,2	12,5				48	47,5	47,5	47	45,5	44,5	42,5	40	37	33	30,5	28	25,5	23
B-NM 50/200A/C	NM 50/20A/C	11	15				55	55	54,5	54,5	53,5	52	50	48	45	41,5	39,5	37	35	32,5
B-NM 50/200S/C	NM 50/20S/C	15	20				60	60	59,5	59,5	58,5	57,5	55,5	53,5	50,5	47	43	40,5	37	
B-NM 50/25C/C	NM 50/25C/C	11	15				55	54,5	54	53	51,5	49,5	46	41,5	35,5	28,5	24,5			
B-NM 50/25B/C	NM 50/25B/C	15	20				69	68,5	68	67,5	66	64	61	57	52,5	46,5	43			
B-NM 50/25A	NM 50/25A/D	18,5	25				80,5	80,5	80	79,5	78,5	77	74,5	71,5	67	61,5	58,5			
B-NM 50/25S	NM 50/25S	22	30				88,5	88,5	88	87	86	84	81,5	78,5	75	71	68,5			

Performance n ≈ 2900 rpm

B-NM - B-NMS	NM - NMS	P ₂		Q m³/h l/min	37,8	42	48	54	60	66	75	84	96	108	120	132	141	150
		kW	HP		630	700	800	900	1000	1100	1250	1400	1600	1800	2000	2200	2350	2500
		H m																
B-NM 65/12E/A	NM 65/12E/C	4	5,5	16,5	16,4	16,2	15,9	15,5	15,1	14,3	13,2	11,4	9,2					
B-NM 65/125C/B	NM 65/12C/B	5,5	7,5	21,1	21	20,8	20,6	20,3	19,9	19,1	18,2	16,5	14,4	11,8				
B-NM 65/125A/B	NM 65/12A/B	7,5	10	25,9	25,8	25,6	25,4	25,1	24,8	24,1	23,3	21,9	20	17,6				
B-NM 65/160D/B	NM 65/16D/B	7,5	10			24,3	24,1	23,9	23,6	23,1	22,3	20,8	18,8	16,3				
B-NM 65/160C/C	NM 65/16C/C	9,2	12,5			28,1	28,0	27,8	27,6	27,1	26,3	24,9	23,1	20,7	17,7			
B-NM 65/160B/C	NM 65/16B/C	11	15				32,6	32,5	32,3	32	31,5	30,8	29,5	27,9	25,7	23,0		
B-NM 65/160AR	NM 65/16AR	15	20				36,4	36,3	36,2	35,9	35,5	34,8	33,7	32,1	30,0	27,5		
B-NM 65/160A/C	NM 65/16A/C	15	20				40,5	40,4	40,2	40	39,5	38,8	37,6	36,1	34,2	31,7		
B-NM 65/200C/C	NM 65/20C/C	15	20				44	43,8	43,5	43,1	42,3	41,2	39,4	37,1	34,4	31,4	28,8	
B-NMS 65/200B	NM 65/20B/D	18,5	25				50,5	50,4	50,2	49,9	49,2	48,3	46,8	44,8	42,5	39,8	37,5	
B-NMS 65/200A	NM 65/20A/A	22	30					57	57	57	56,5	56	55,5	54	52,5	50	47,5	45,5
B-NM 65/250C/B	NM 65/25C/A	22	30					61	61	60,5	60	58,5	57	54,5	51,5	47,5	43	
B-NMS 65/250B/A	NMS 65/250B/A	30	40					73,5	73,5	73,5	73,5	73	71,5	69,5	66,5	63	59	
B-NMS 65/250A/B	NMS 65/250A/B	37	50					86,5	86,5	87	86,5	86	85,5	83,5	81	78	74,5	

B-NM - B-NMS	NM - NMS	P ₂		Q m³/h l/min	75	84	96	108	120	132	150	168	180	192	210	240	270	300
		kW	HP		1250	1400	1600	1800	2000	2200	2500	2800	3000	3200	3500	4000	4500	5000
		H m																
B-NM 80/160E/B	NM 80/16E/B	7,5	10	21,5	20,9	19,9	18,7	17,4	15,9	13,4	10,6							
B-NM 80/160D/C	NM 80/16D/C	9,2	12,5	25,2	24,5	23,5	22,4	21,1	19,6	17,2	14,4							
B-NM 80/160C/C	NM 80/16C/C	11	15	28,7	28,2	27,4	26,4	25,1	23,8	21,3	18,5	16,4						
B-NM 80/160B/C	NM 80/16B/C	15	20	34,8	34,5	33,8	33	32,1	30,9	28,9	26,4	24,5	22,4					
B-NM 80/16A	NM 80/16A/D	18,5	25	39,9	39,6	39	38,2	37,4	36,4	34,5	32,2	30,3	28,1					
B-NMS 80/200B/B	NM 80/20B/A	22	30	44,4	44	43,3	42,4	41,4	40,4	38,6	36,4	34,7	32,4					
B-NMS 80/200A/A	NMS 80/200A/A	30	40	56,6	56,4	55,9	55,2	54,4	53,4	51,7	49,5	47,7	45,6					
B-NMS 80/250E/A	NM 80/25E	22	30	51	50	48,5	46,5	44,5	42	38*	33*	29*						
B-NMS 80/250D/A	NMS 80/250D	30	40	65	64	62,5	61	59	56,5	53*	49*	45,5*	41*					
B-NMS 80/250C/A	NMS 80/250C/A	37	50	73,5	73	72	70,5	69	67	63*	59*	55,5*	51,5*					
B-NMS 80/250B/A	NMS 80/250B/A	45	60	84	83,5	82,5	81,5	80	78	74,5*	70,5*	67*	63*					
B-NMS 80/250A/A	NMS 80/250A/A	55	75	95	94,5	93,5	92,5	91,5	90	87,5*	84*	80,5*	76,5*					
B-NMS 100/200E/B	NM 100/20E/A	18,5	25				30	29,5	29	28	27	26	25	23	19*			
B-NMS 100/200D/A	NM 100/20D	22	30				36	35,5	35	34	33	32	31	29	24,5*	19*		
B-NMS 100/200C/A	NMS 100/200C	30	40				45	44,5	44	43,5	42,5	41,5	40,5	39	34,5*	29*	22°	
B-NMS 100/200B/A	NMS 100/200B/A	37	50				54	53,5	53	52,5	51,5	50,5	49,5	48	44*	38,5*	32°	
B-NMS 100/200A/A	NMS 100/200A/A	45	60				61,5	61	60,5	60	59,5	58,5	58	56,5	53*	48*	42°	
B-NMS 100/250B/A	NMS 100/250B/A	55	75				73,5	73	72,5	71,5	70	68,5	67	65	61*	55,5*	48,5°	
B-NMS 100/250A/A	NMS 100/250A/A	75	100				91	90,5	90	89,5	88,5	88	87	85	81*	75*	67°	

NM(S) Standard construction.
B-NM(S) Bronze construction.

P₂ Rated motor power output.
H Total head in m.

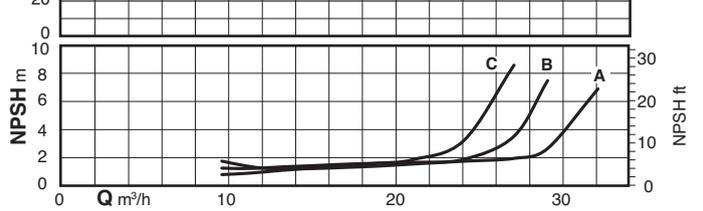
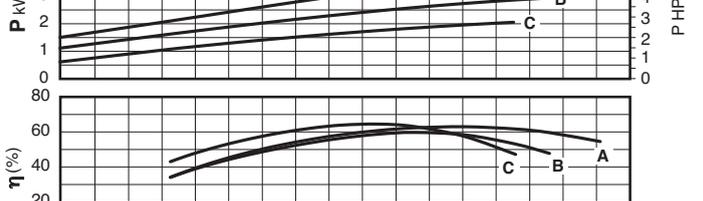
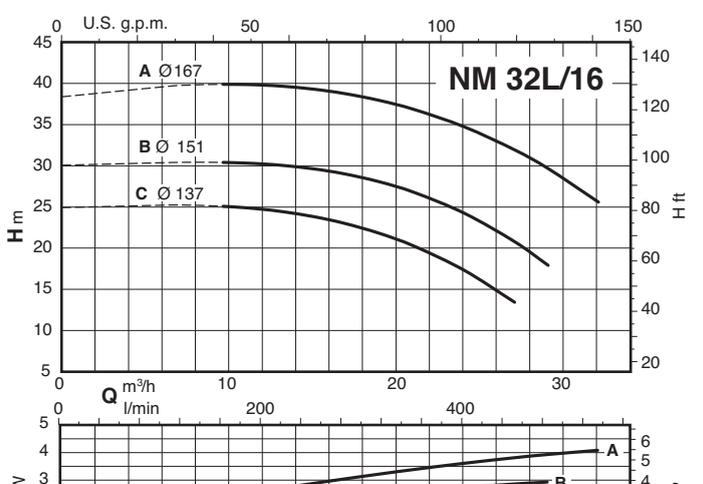
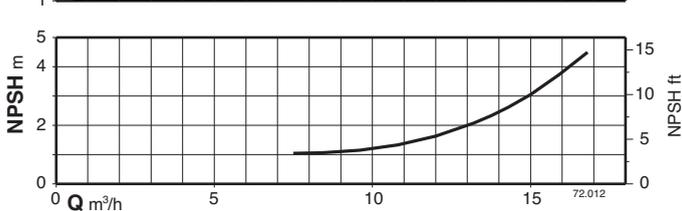
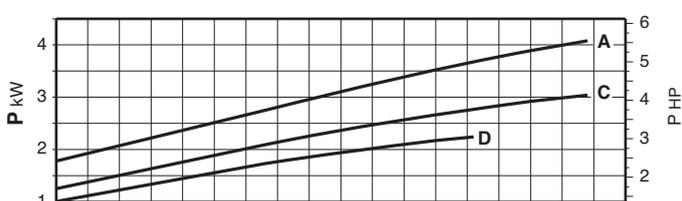
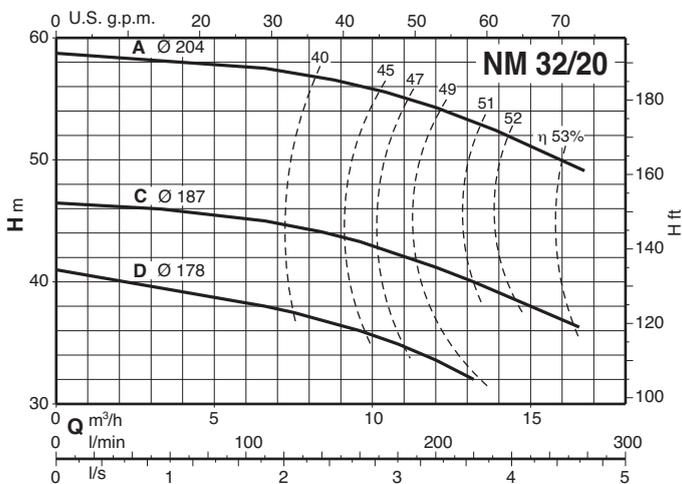
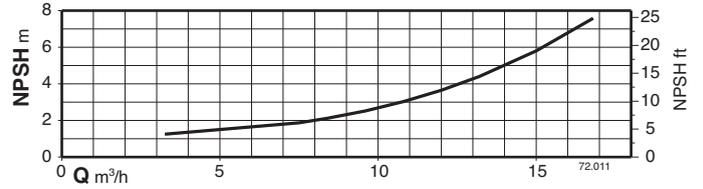
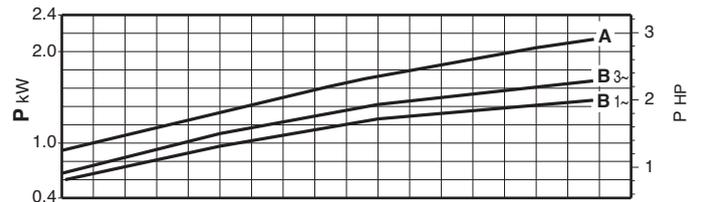
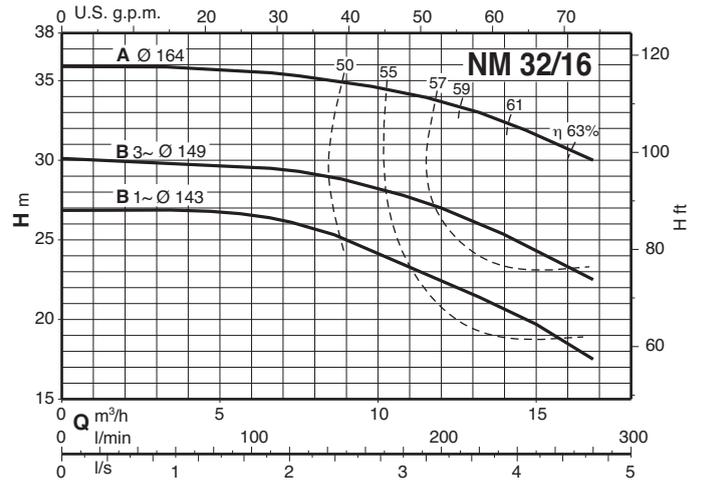
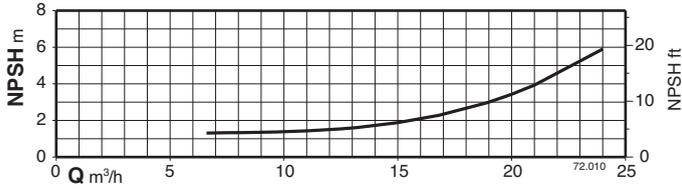
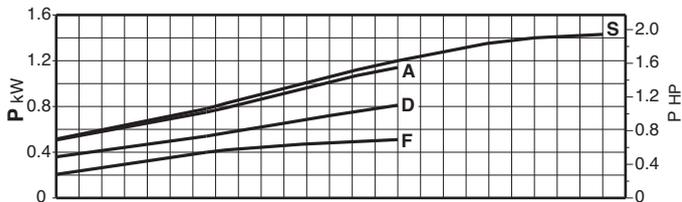
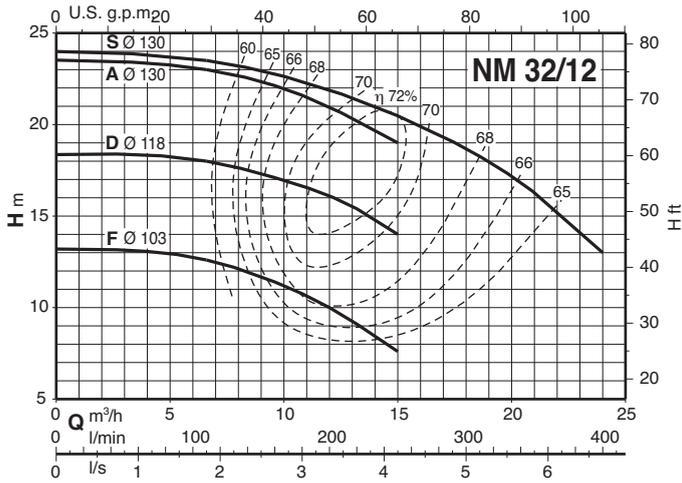
* Maximum suction lift 1-2 m.
◻ With 1 m suction head.
Tolerances according to UNI EN ISO 9906:2012

Rated currents

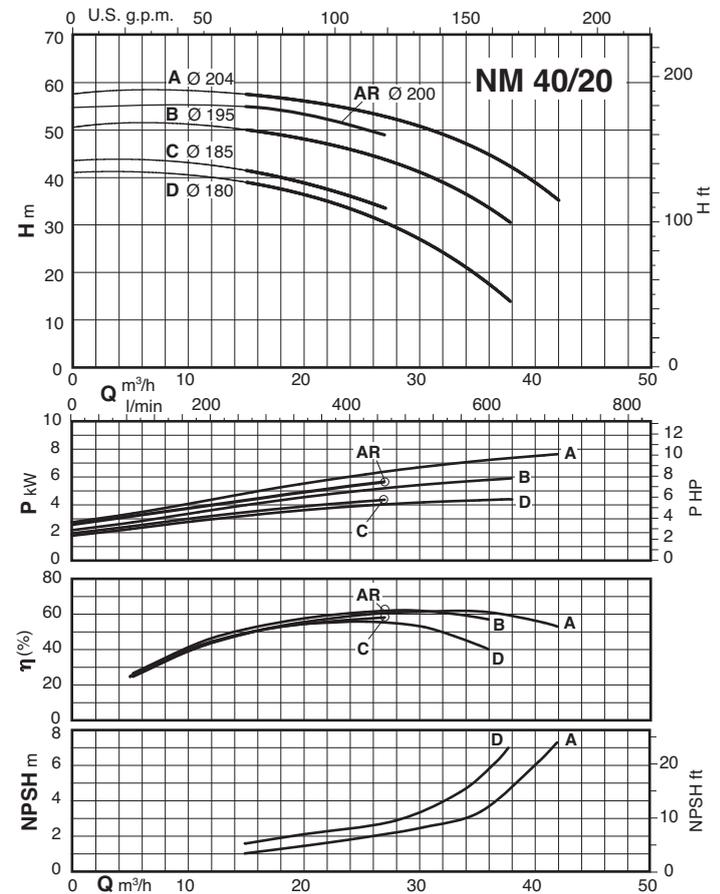
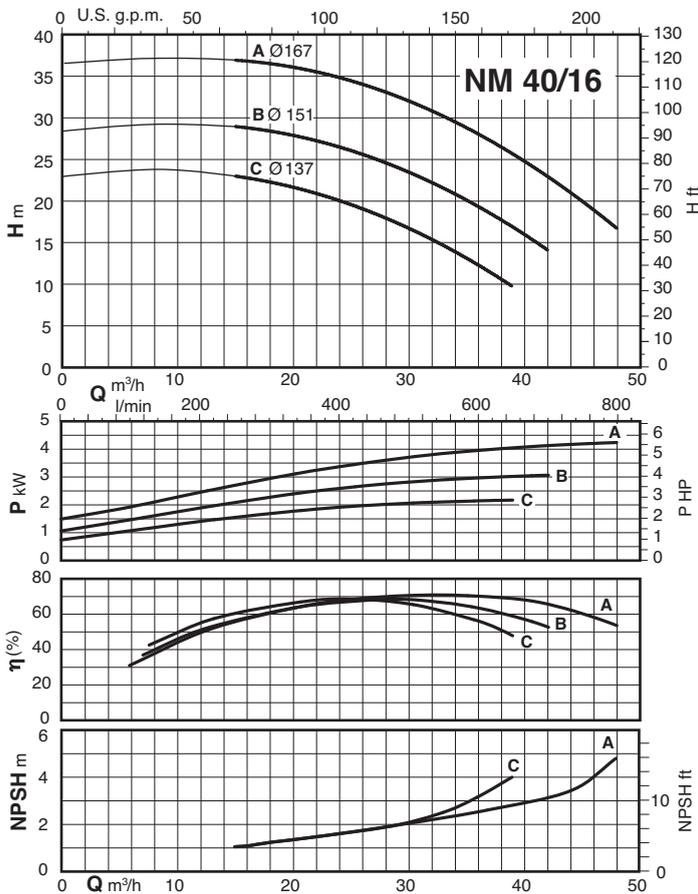
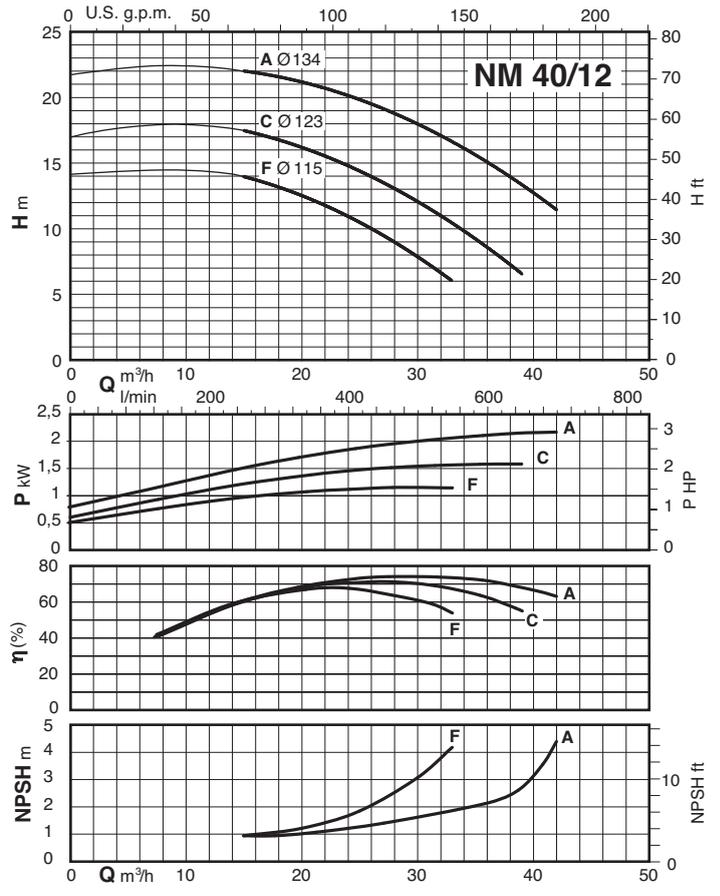
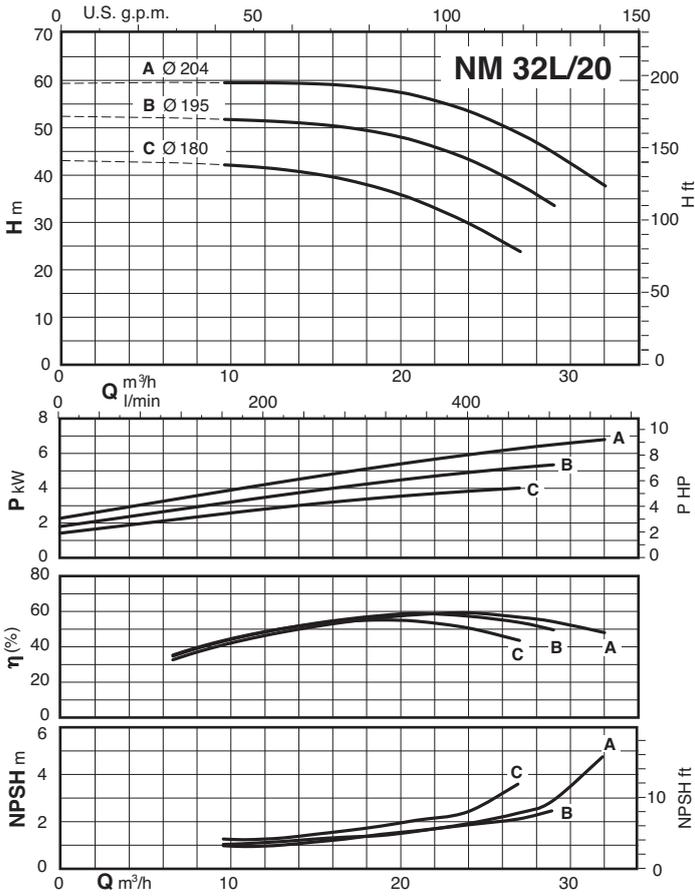
P ₂		230V Δ / 400V Y			IA/IN
kW	HP	IN A	IN A	IN A	
0,55	0,75	4	2,3		4,8
0,75	1	4	2,3		6,1
1,1	1,5	4,6	2,7		5,5
1,5	2	7,5	4,3		6,1
2,2	3	9,2	5,3		8,4
3	4	11,5	6,6		8,2
4	5,5		9,6	5,5	8,9
5,5	7,5		10,8	6,2	9,1
7,5	10		14,3	8,3	9,1
9,2	12,5		18,5	10,7	8,2
11	15		21,5	12,4	8,5
15	20		27,3	15,8	9,5
18,5	25		34	19,6	9,5
22	30		41	23,7	9,5
30	40		53	30,5	8,6
37	50		65	37,5	7,1
45	60		78	45	6,9
55	75		95	55	6,7
75	100		128	74	6,8

P₂ Rated motor power output.
IA/IN D.O.L. starting current / Nominal current

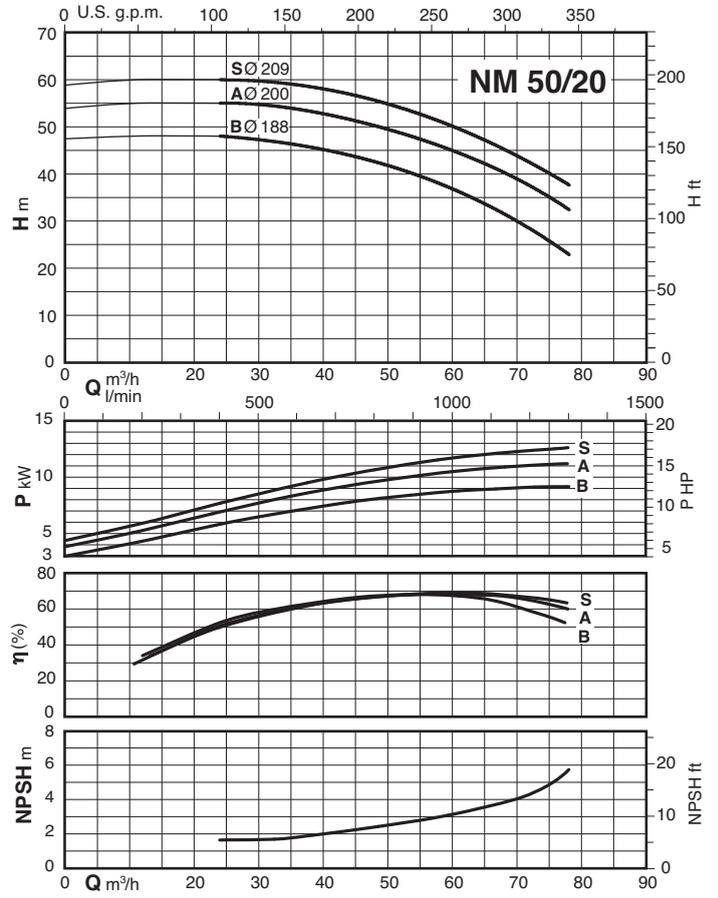
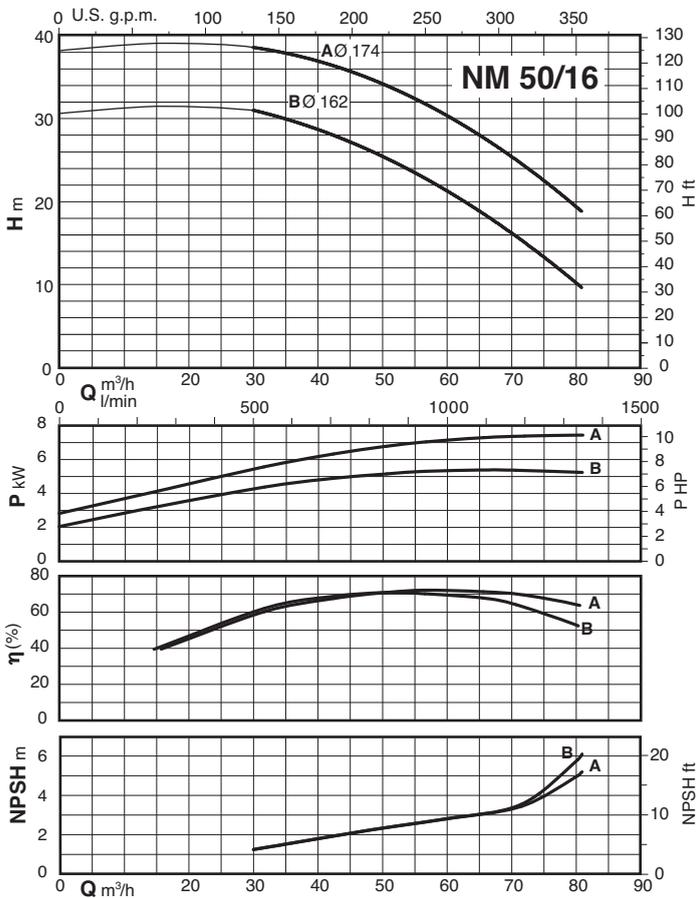
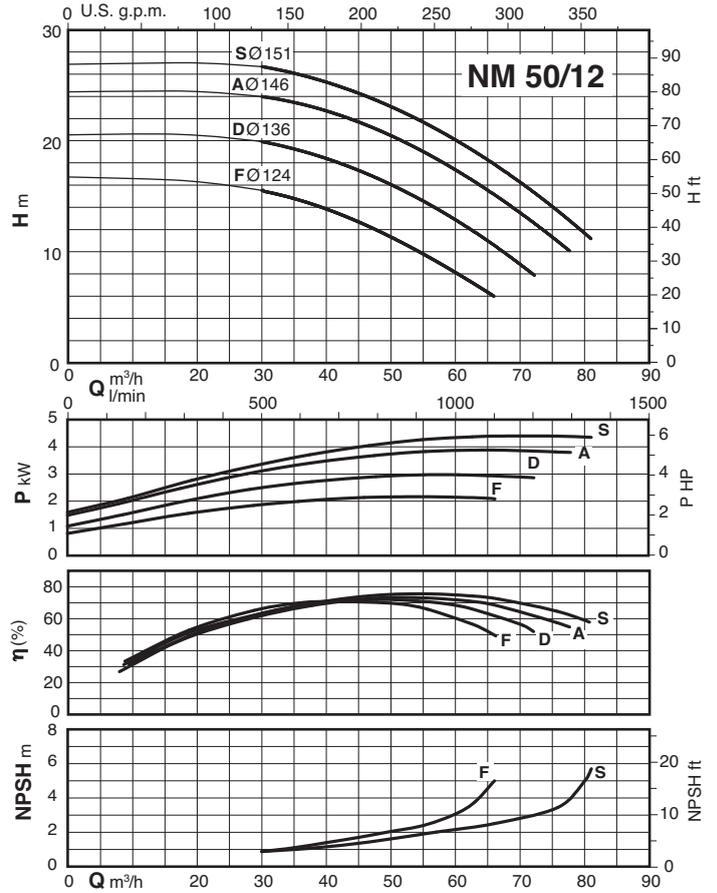
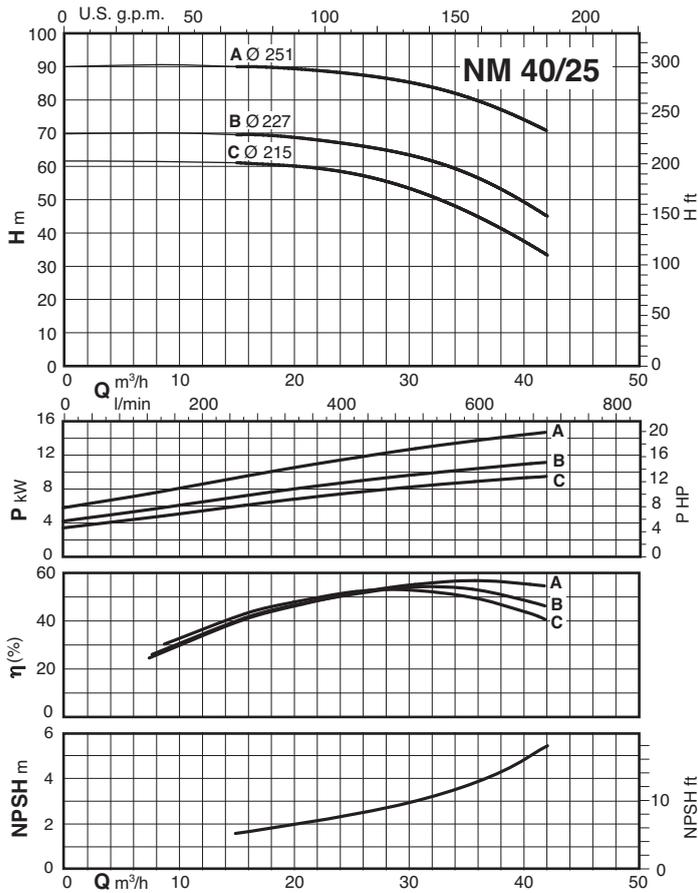
Characteristic curves $n \approx 2900$ rpm



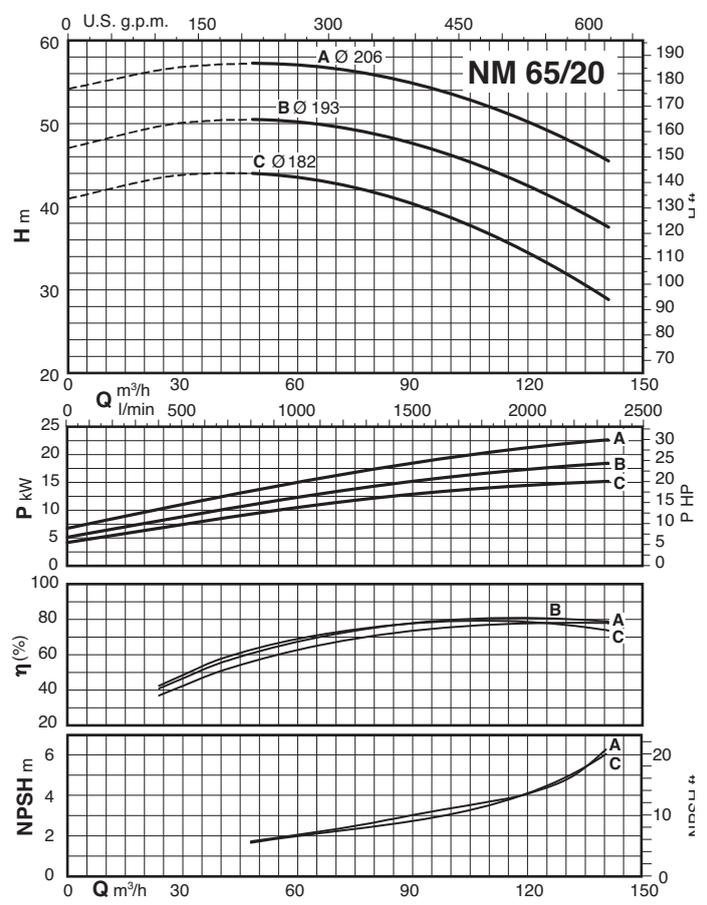
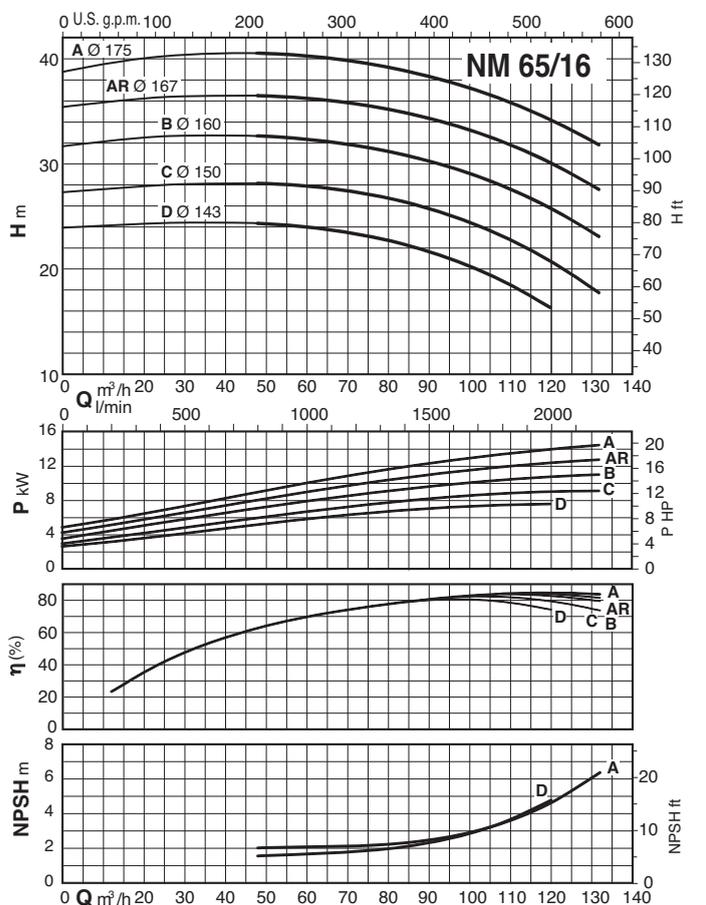
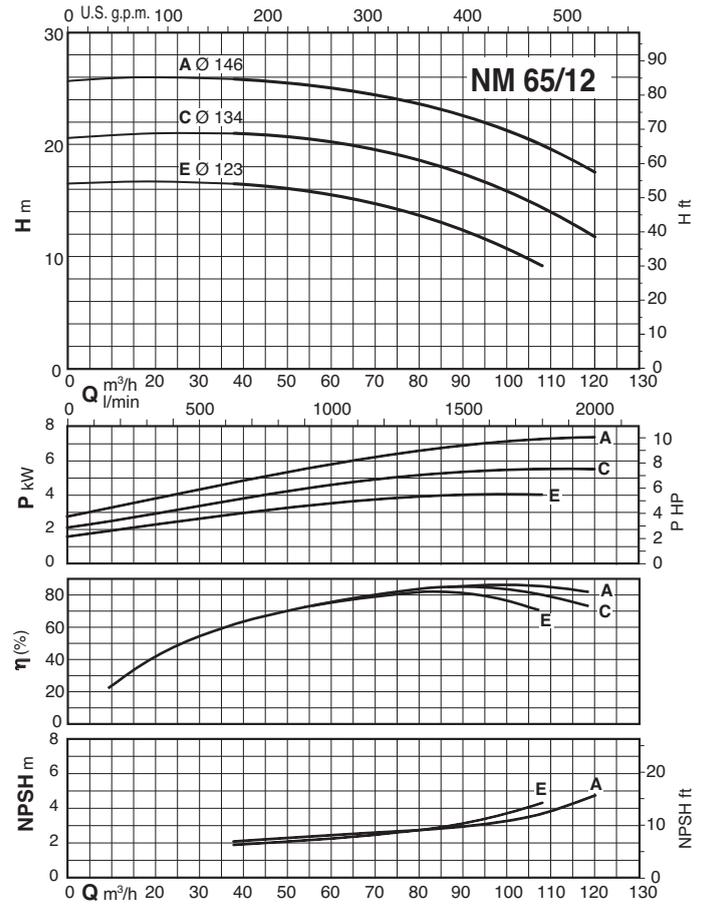
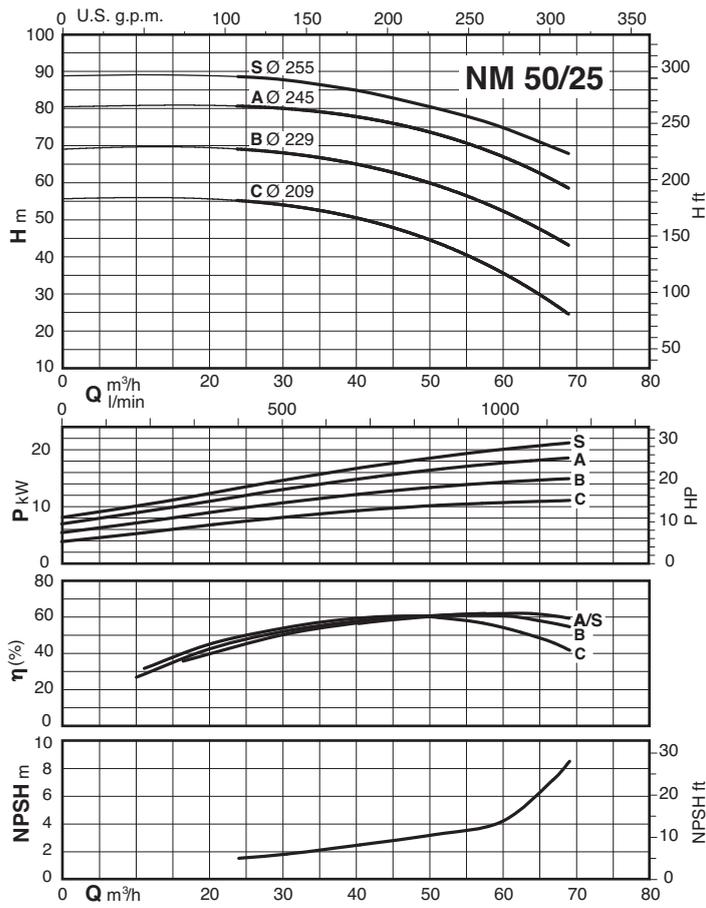
Characteristic curves $n \approx 2900$ rpm



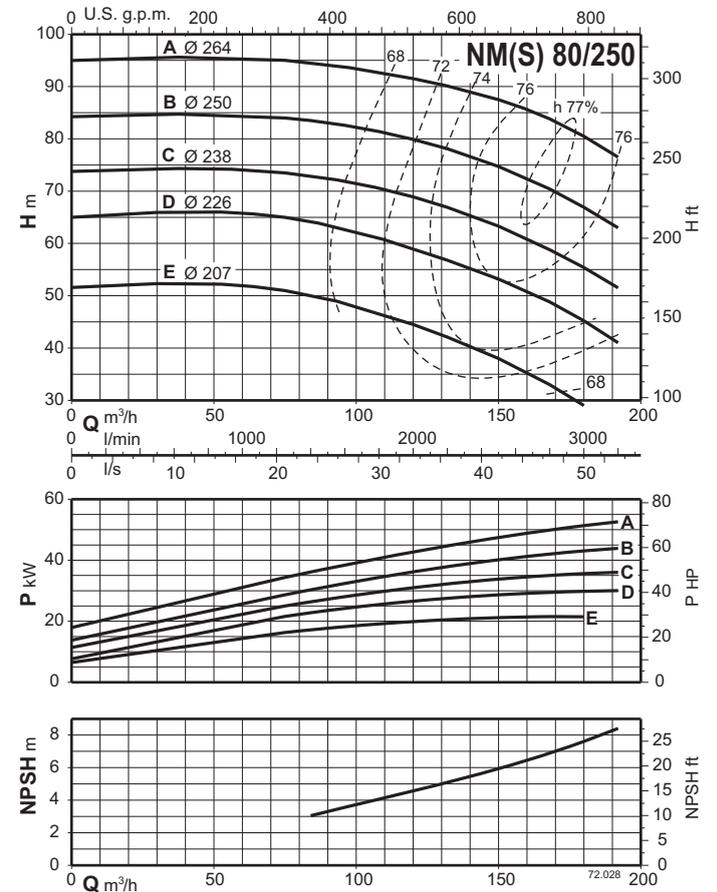
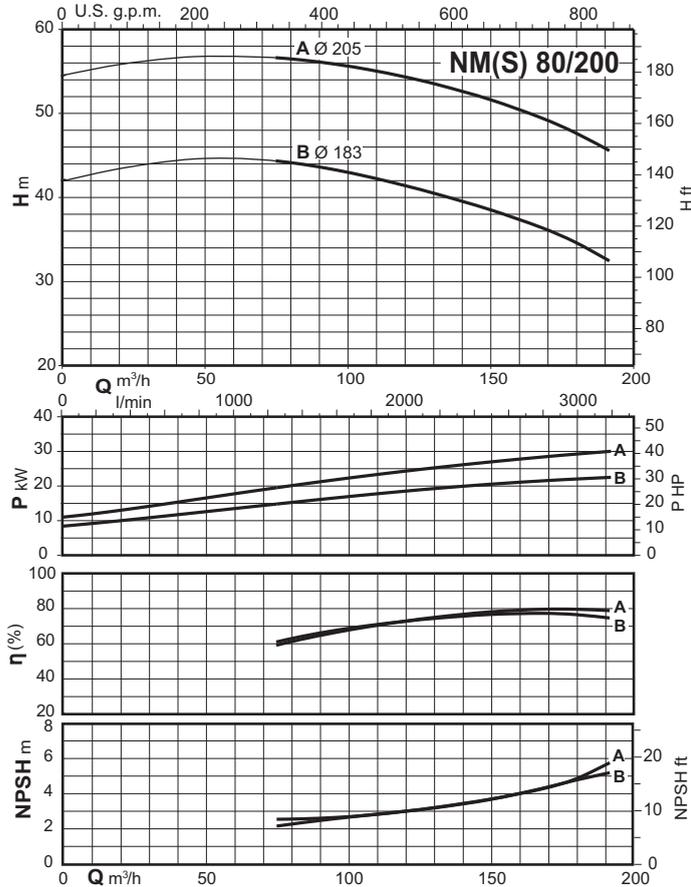
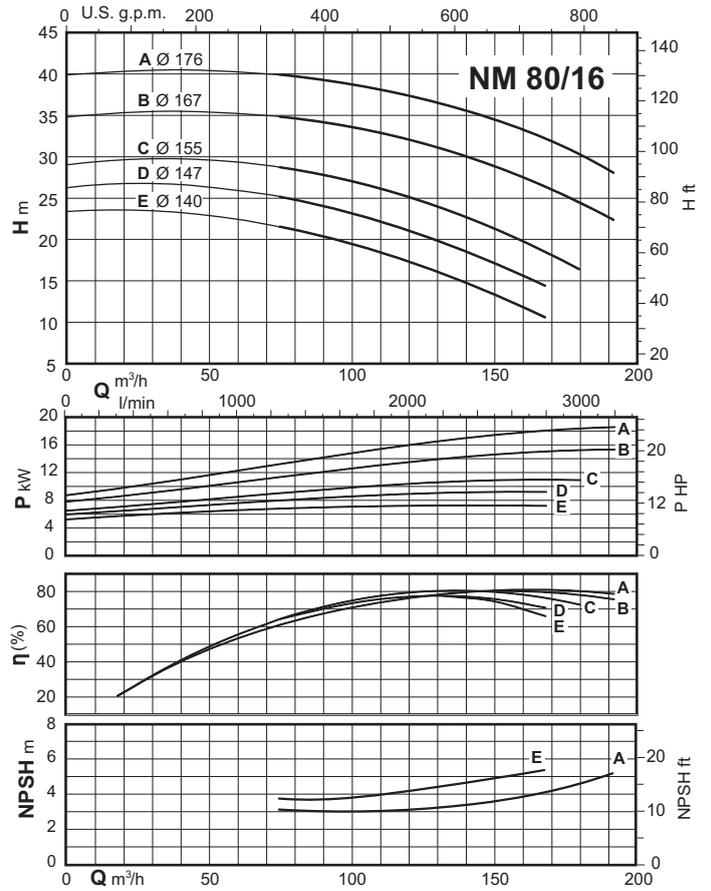
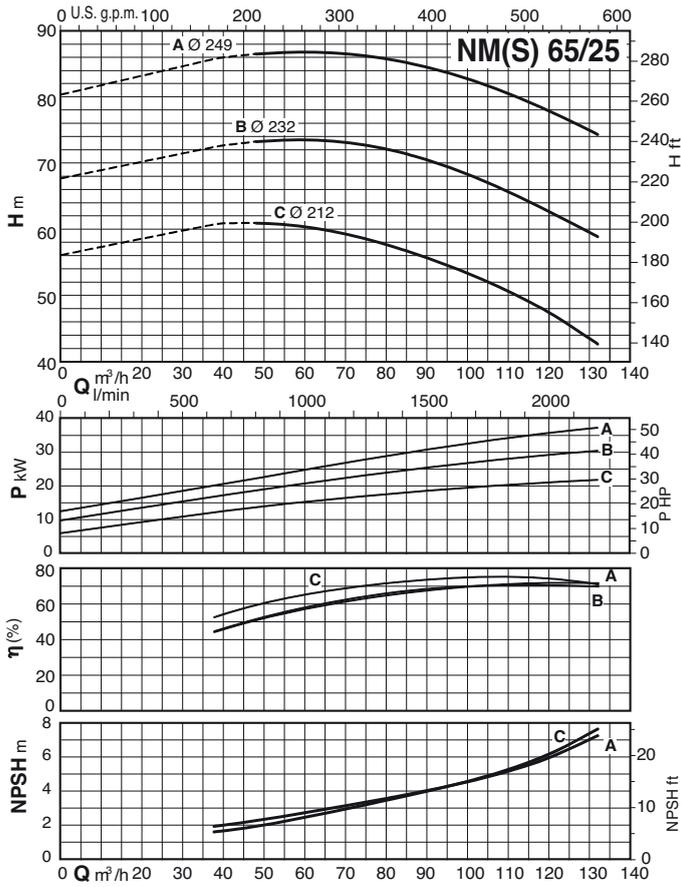
Characteristic curves $n \approx 2900$ rpm



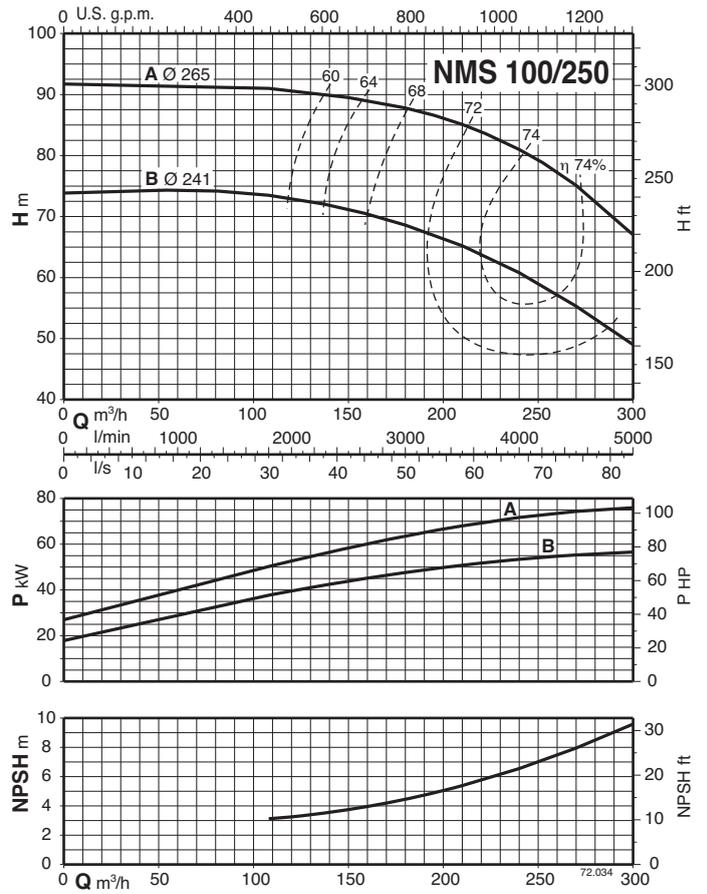
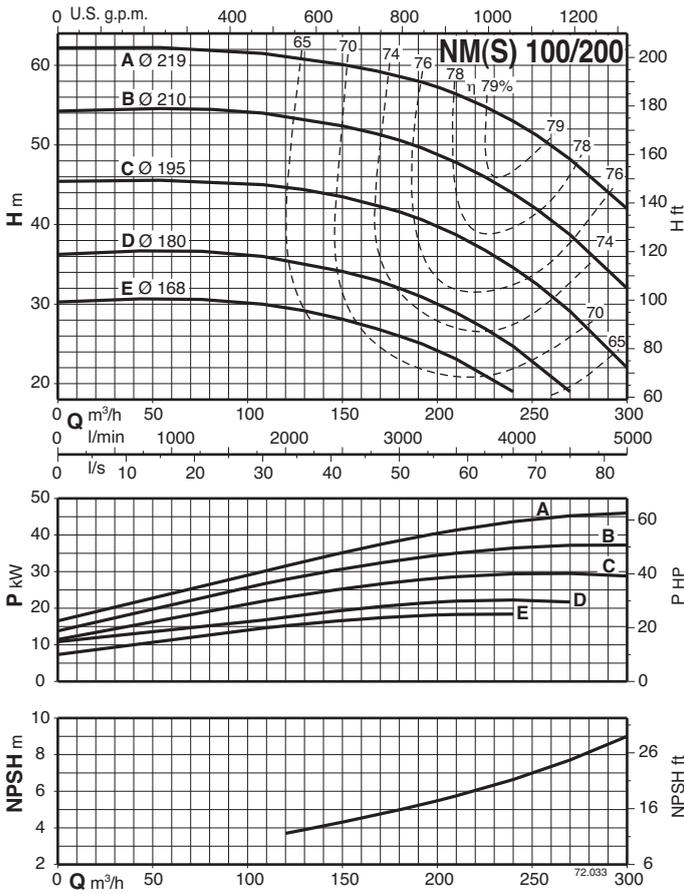
Characteristic curves $n \approx 2900$ rpm



Characteristic curves $n \approx 2900$ rpm

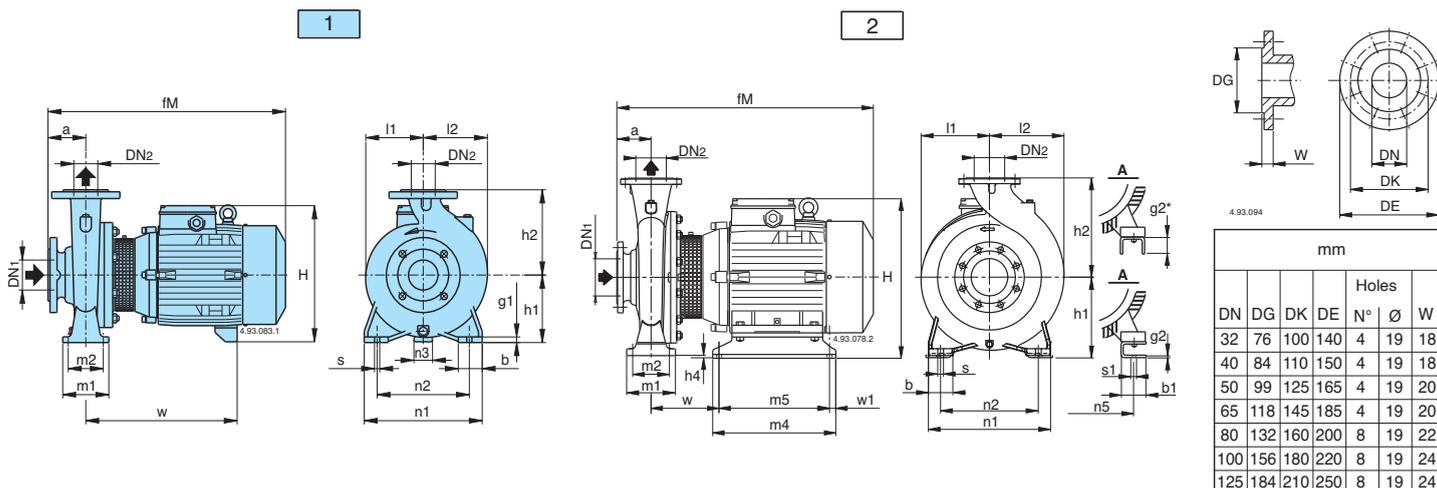


Characteristic curves $n \approx 2900$ rpm



Dimensions and weights

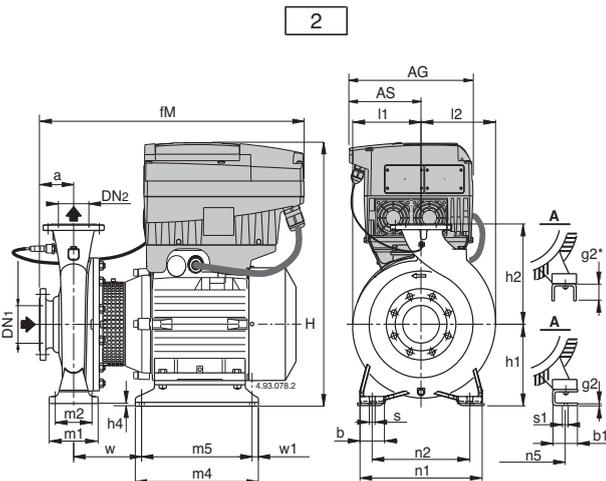
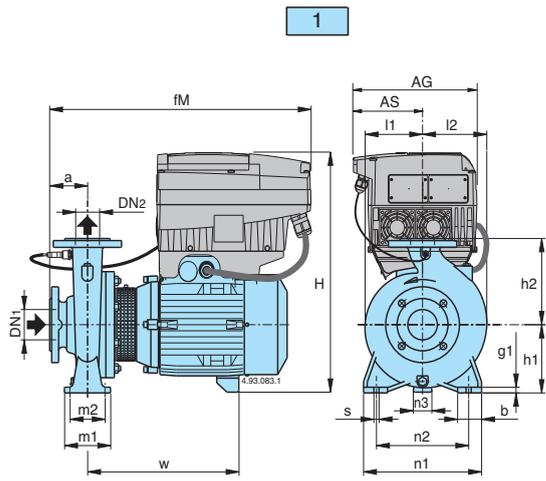
Flanges EN 1092-2



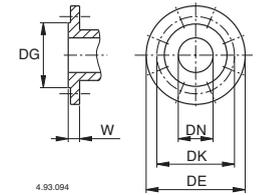
Picture	NM	mm																							kg				
		DN1	DN2	a	fM	h1	h2	H	h4	m1	m2	n1	n2	n3	n5	w1	b	b1	s	s1	l1	l2	w	m4		m5	g1	g2	
1	NM 32/12DE-FE NM 32/12S/A-A/A	50	32	80	405	112	140	240	-	100	70	190	140	37	-	-	50	-	14	-	93	97	245	-	-	12	-	23,5-23,5 27-26	
	NM 32/16B/A NM 32/16A/B	50	32	80	410 450	132	160	260	-	100	70	240	190	47	-	-	50	-	14	-	120	120	250 290	-	-	12	-	33 36,5	
	NM 32/20D/B NM 32/20A/B-C/A	50	32	80	450 475	160	180	288 298	-	100	70	240	190	62 60	-	-	50	-	14	-	140	140	290 295	-	-	12	-	41 52,5-49	
	NM 32L/16C NM 32L/16A-B	50	32	80	450 475	132	160	260 270	-	100	70	240	190	47 45	-	-	50	-	14	-	121	121	290 295	-	-	10	-	35,2 47-43,4	
	NM 32L/20C NM 32L/20A-B	50	32	80	475 508	160	180	298 320	-	100	70	240	190	60 49	-	-	50	-	14	-	142	142	295 279	-	-	12	-	50,6 67,5-62	
	NM 40/12C/B-F/B NM 40/12A/C	65	40	80	410 450	112	140	240	-	100	70	210	160	37	-	-	50	-	14	-	100	113	250 290	-	-	12	-	29,5-27,5 32	
	NM 40/16C/C NM 40/16A/C-B/B	65	40	80	450 475	132	160	270	-	100	70	240	190	47 45	-	-	50	-	14	-	121	122	290 295	-	-	10	-	36,5 48-45	
	NM 40/20C/B-D/B NM 40/20A/A-AR/A-B/A	65	40	100	495 528	160	180	298 320	-	100	70	265	212	60 49	-	-	50	-	14	-	142	142	295 279	-	-	12	-	53,5-53 71-65-65	
	NM 40/25C/C NM 40/25B/C NM 40/25A/C	65	40	100	640 690 715	180	225	365	-	125	95	320	250	50	-	-	65	-	14	-	175	175	460 460	-	-	15	-	108 126 139	
	NM 50/12F/C NM 50/12S/C-A/C-D/B	65	50	100	470 495	132	160	260 270	-	100	70	240	190	47 45	-	-	50	-	14	-	122	137	290 295	-	-	10	-	37 48,5-48-45	
	NM 50/16A/B-B/B	65	50	100	528	160	180	320	-	100	70	265	212	49	-	-	50	-	14	-	126	140	279	-	-	12	-	68-63	
	NM 50/20B/C NM 50/20A/C NM 50/20S/C	65	50	100	640 690 720	160	200	345	-	100	70	265	212	40	-	-	50	-	14	-	140	153	460 460	-	-	15	-	100 118 131	
	NM 50/25C/C NM 50/25B/C	65	50	100	695 720	180	225	365	-	125	95	320	250	50	-	-	65	-	14	-	175	175	465 465	-	-	15	-	131 145	
	2	NM 50/25S-A/D	65	50	100	766	180	225	386	-	125	95	320	250	-	254	20	65	60	14	15	175	175	185	394	354	-	20*	176-168
	1	NM 65/12E/C NM 65/12A/B-C/B	80	65	100	504 533	160	180	298 320	-	125	95	280	212	60 49	-	-	65	-	14	-	130	154	303 284	-	-	12	-	52 70,3-64,7
		NM 65/16D/B NM 65/16C/C NM 65/16B/C NM 65/16A/C-AR	80	65	100	528 640 690 715	160	200	320 345 345 345	-	125	95	280	212	49 40 40 40	-	-	65	-	14	-	140	161	279 410 410 460	-	-	12	-	70,5 93 112,4 127-125
		NM 65/20C/C	80	65	100	715	180	225	365	-	125	95	320	250	50	-	-	65	-	14	-	159	179	460	-	-	12	-	134
		2	NM 65/20A/A-B/D NM 65/25C/A	80	65	100	765 765	180 200	225 250	386 408	-	125 160	95 120	320 360	250 280	-	254 20	20 80	65 90	60 14	14 14	159 179	185	182	394 400	354 360	-	20* 42*	169-163 187
1		NM 80/16E/B NM 80/16D/C NM 80/16C/C NM 80/16B/C	100	80	125	553 670 720 745	180	225	340 365 365 365	-	125	95	320	250	60 50 50 50	-	-	65	-	14	-	153	181	279 415 465 465	-	-	12	-	77,5 101 120,5 132,5
2	NM 80/16A/D NM 80/20B/A NM 80/25E NM 100/20D-E/A	100	80	125	790 790 790 790	180 200	225 280	386 408	-	125 160	95 120	320 400	250 315	-	254 20	20 80	65 90	60 18	14 14	153 191	181	185	394 400	354 360	-	20* 42* 42*	158 180 190 183-175		

Pumps with packed gland, dimensions available on request (excluded NMS).

Dimensions and weights



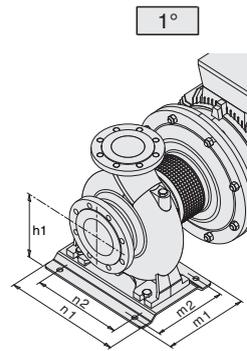
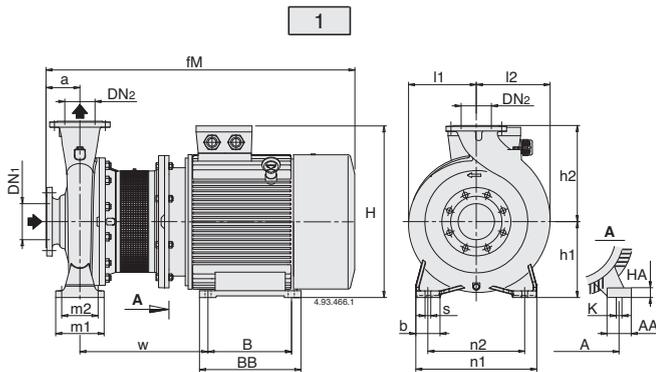
Flanges EN 1092-2



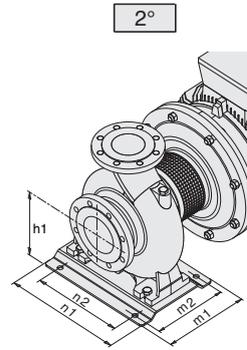
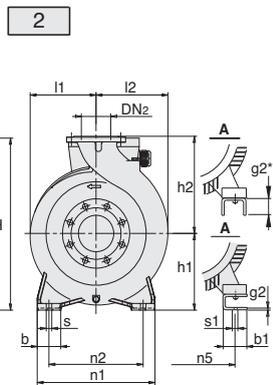
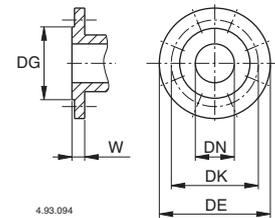
mm							
DN	DG	DK	DE	Holes N°	Ø	W	
32	76	100	140	4	19	18	
40	84	110	150	4	19	18	
50	99	125	165	4	19	20	
65	118	145	185	4	19	20	
80	132	160	200	8	19	22	
100	156	180	220	8	19	24	
125	184	210	250	8	19	24	

Picture	NM EI	mm																								kg				
		DN1	DN2	a	fM	AG	AS	h1	h2	H	h4	m1	m2	n1	n2	n3	n5	w1	b	b1	s	s1	l1	l2	w		m4	m5	g1	g2
1	NM EI 32/12DE-FE	50	32	80	435	190	105	112	140	398	-	100	70	190	140	37	-	-	50	-	14	-	93	97	245	-	-	12	-	30,4-30,4
	NM EI 32/12S/A-A/A	50	32	80	435	190	105	112	140	398	-	100	70	190	140	37	-	-	50	-	14	-	93	97	245	-	-	12	-	32,4-33,4
	NM EI 32/16B/A	50	32	80	440	190	105	132	160	418	-	100	70	240	190	47	-	-	50	-	14	-	120	120	250	-	-	12	-	40,4
	NM EI 32/16A/B	50	32	80	470	210	118	132	160	418	-	100	70	240	190	47	-	-	50	-	14	-	140	140	290	-	-	12	-	46,5
	NM EI 32/20D/B	50	32	80	470	210	118	160	180	446	-	100	70	240	190	62	-	-	50	-	14	-	140	140	290	-	-	12	-	49,5
	NM EI 32/20A/B,C/A	50	32	80	485	210	118	160	180	454	-	100	70	240	190	60	-	-	50	-	14	-	140	140	295	-	-	12	-	59-54,5
	NM EI 32L/16C	50	32	80	470	210	118	132	160	418	-	100	70	240	190	47	-	-	50	-	14	-	121	121	290	-	-	10	-	46,1
	NM EI 32L/16A,B	50	32	80	485	210	118	132	160	426	-	100	70	240	190	45	-	-	50	-	14	-	121	121	295	-	-	10	-	55,6-53,1
	NM EI 32L/20C	50	32	80	485	210	118	160	180	454	-	100	70	240	190	60	-	-	50	-	14	-	142	142	295	-	-	12	-	60
	NM EI 32L/20B	50	32	80	508	281	153	160	180	482	-	100	70	240	190	49	-	-	50	-	14	-	142	142	279	-	-	12	-	74
	NM EI 32L/20A	50	32	80	515	281	153	160	180	528	-	100	70	240	190	49	-	-	50	-	14	-	142	142	279	-	-	12	-	86,8
	NM EI 40/12C/B-F/B	65	40	80	440	190	105	112	140	398	-	100	70	210	160	37	-	-	50	-	14	-	100	113	250	-	-	12	-	33,4-35,4
	NM EI 40/12A/C	65	40	80	470	210	118	112	140	398	-	100	70	210	160	37	-	-	50	-	14	-	100	113	290	-	-	12	-	39,5
	NM EI 40/16C/C	65	40	80	470	210	118	132	160	418	-	100	70	240	190	47	-	-	50	-	14	-	121	122	290	-	-	10	-	46,5
	NM EI 40/16A/C,B/B	65	40	80	485	210	118	132	160	426	-	100	70	240	190	45	-	-	50	-	14	-	121	122	295	-	-	10	-	56-53,5
	NM EI 40/20C/B-D/B	65	40	100	505	210	118	160	180	454	-	100	70	265	212	49	-	-	50	-	14	-	142	142	295	-	-	12	-	61-62
	NM EI 40/20AR/A-B/A	65	40	100	528	281	153	160	180	482	-	100	70	265	212	49	-	-	50	-	14	-	142	142	279	-	-	12	-	75-75
	NM EI 40/20A/A	65	40	100	535	281	153	160	180	528	-	100	70	265	212	49	-	-	50	-	14	-	142	142	279	-	-	12	-	87,8
NM EI 40/25C/C	65	40	100	640	281	153	180	225	573	-	125	95	320	250	50	-	-	65	-	14	-	175	175	400	-	-	15	-	122,8	
NM EI 40/25B/C	65	40	100	690	281	153	180	225	573	-	125	95	320	250	50	-	-	65	-	14	-	175	175	460	-	-	15	-	131,8	
NM EI 40/25A/C	65	40	100	738	350	190	180	225	651	-	125	95	320	250	50	-	-	65	-	14	-	175	175	460	-	-	15	-	166,8	
NM EI 50/12F/C	65	50	100	490	210	118	132	160	418	-	100	70	240	190	47	-	-	50	-	14	-	122	137	290	-	-	10	-	47,5	
NM EI 50/12S/C-A/C-D/B	65	50	100	505	210	118	132	160	426	-	100	70	240	190	45	-	-	50	-	14	-	122	137	295	-	-	10	-	57-57-54,5	
NM EI 50/16B/B	65	50	100	528	281	153	160	180	482	-	100	70	265	212	49	-	-	50	-	14	-	126	140	279	-	-	12	-	72	
NM EI 50/16A/B	65	50	100	535	281	153	160	180	528	-	100	70	265	212	49	-	-	50	-	14	-	126	140	279	-	-	12	-	85,3	
NM EI 50/20B/C	65	50	100	640	281	153	160	200	553	-	100	70	265	212	40	-	-	50	-	14	-	140	153	400	-	-	15	-	114,8	
NM EI 50/20A/C	65	50	100	690	281	153	160	200	553	-	100	70	265	212	40	-	-	50	-	14	-	140	153	460	-	-	15	-	123,8	
NM EI 50/20S/C	65	50	100	738	350	190	160	200	631	-	100	70	265	212	40	-	-	50	-	14	-	140	153	460	-	-	15	-	166	
NM EI 50/25C/C	65	50	100	695	281	153	180	225	533	-	125	95	320	250	50	-	-	65	-	14	-	175	175	465	-	-	15	-	136,8	
NM EI 50/25B/C	65	50	100	743	350	190	180	225	651	-	125	95	320	250	50	-	-	65	-	14	-	175	175	465	-	-	15	-	180	
2	NM EI 50/25S-A/D	65	50	100	769	350	190	180	225	671	-	125	95	320	250	-	254	20	65	60	14	15	175	175	185	394	354	15	20*	167-134
1	NM EI 65/12E/C	80	65	100	510	210	118	160	482	-	125	95	280	212	60	-	-	65	-	14	-	130	154	303	-	-	12	-	59,9	
	NM EI 65/12C/B	80	65	100	533	281	153	160	528	-	125	95	280	212	49	-	-	65	-	14	-	130	154	284	-	-	12	-	72,7	
	NM EI 65/12A/B	80	65	100	540	281	153	160	528	-	125	95	280	212	49	-	-	65	-	14	-	130	154	284	-	-	12	-	85,5	
	NM EI 65/16D/B	80	65	100	528	281	153	160	582	-	125	95	280	212	49	-	-	65	-	14	-	140	161	279	-	-	12	-	85,3	
	NM EI 65/16C/C	80	65	100	640	281	153	160	200	553	-	125	95	280	212	40	-	-	65	-	14	-	140	161	410	-	-	12	-	107,8
	NM EI 65/16B/C	80	65	100	690	281	153	160	200	553	-	125	95	280	212	40	-	-	65	-	14	-	140	161	410	-	-	12	-	126,8
	NM EI 65/16A/C-AR	80	65	100	738	350	190	160	200	631	-	125	95	280	212	40	-	-	65	-	14	-	140	161	460	-	-	12	-	162
NM EI 65/20C/C	80	65	100	738	350	190	180	225	651	-	125	95	320	250	50	-	-	65	-	14	-	159	179	460	-	-	12	-	171	
2	NM EI 65/20A/A-B/D	80	65	100	765	350	190	180	225	671	-	125	95	320	250	-	254	20	80	60	14	15	155	175	185	394	354	-	20*	205-199
NM EI 65/25C/A	80	65	100	765	350	190	200	250	693	2	160	120	360	280	-	254	20	80	90	18	14	179	185	182	400	360	-	42*	222	
1	NM EI 80/16E/B	100	80	125	555	281	153	180	225	548	-	125	95	320	250	60	-	-	65	-	14	-	165	193	279	-	-	15	-	92,3
	NM EI 80/16D/C	100	80	125	670	281	153	180	225	573	-	125	95	320	250															

Dimensions and weights



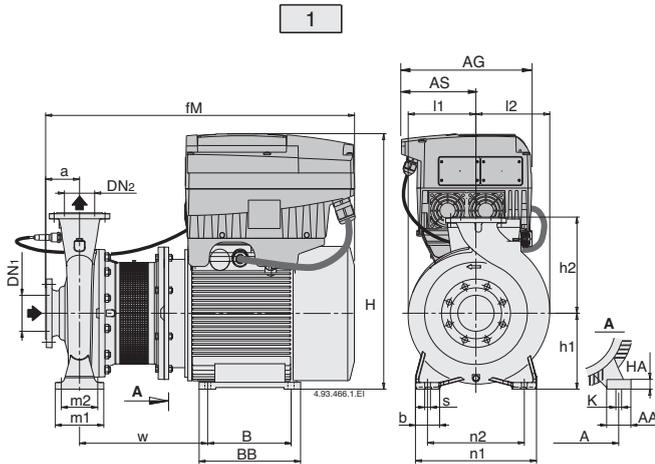
Flanges EN 1092-2



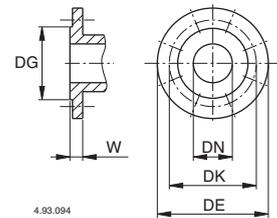
mm						
DN	DG	DK	DE	Holes		
				N°	Ø	W
32	76	100	140	4	19	18
40	84	110	150	4	19	18
50	99	125	165	4	19	20
65	118	145	185	4	19	20
80	132	160	200	8	19	22
100	156	180	220	8	19	24
125	184	210	250	8	19	24

Picture	NMS	mm																											kg		
		DN1	DN2	a	fM	h1	h2	H	m1	m2	n1	n2	A	n5	w1	b	AA	b1	s	K	s1	l1	l2	w	BB	m4	B	m5		HA	g2
2	NMS 65/250B/A	80	65	100	962	200	250	439	160	120	360	280	-	279	20	80	-	70	18	-	15	179	195	333	-	440	-	400	-	20°	236
1	NMS 65/250A/B	80	65	100	1009	200	250	496	160	120	360	280	318	-	-	80	70	-	18	19	-	200	200	406	355	-	305	-	25	-	298
1	NMS 80/200A/A	100	80	125	987	180	250	439	125	95	345	280	279	-	-	65	65	-	14	19	-	170	194	394	328	-	279	-	20	-	222
2	NMS 80/250D	100	80	125	987	200	280	439	160	120	400	315	-	279	20	80	-	70	18	-	15	191	211	333	-	440	-	400	-	20°	242
1	NMS 80/250C/A	100	80	125	1034	200	280	496	160	120	400	315	318	-	-	80	70	-	18	19	-	200	210	406	355	-	305	-	25	-	300
1°	NMS 80/250B/A	100	80	125	1129	225	280	563	298	258	410	315	356	-	-	-	-	18	19	-	225	225	445	361	-	311	-	34	-	437	
2°	NMS 80/250A/A	100	80	125	1198	280	280	660	260	220	410	315	-	406	25	-	-	100	18	-	24	275	275	443	-	500	-	450	-	8	534
2	NMS 100/200C	125	100	125	987	200	280	439	160	120	360	280	-	279	20	80	-	70	18	-	15	180	212	333	-	440	-	400	-	20°	236
1	NMS 100/200B/A	125	100	125	1034	200	280	496	160	120	360	280	318	-	-	80	70	-	18	19	-	200	212	406	355	-	305	-	25	-	338
1°	NMS 100/200A/A	125	100	125	1129	225	280	563	298	258	410	315	356	-	-	-	-	18	19	-	225	225	445	361	-	311	-	34	-	426	
2°	NMS 100/250B/A	125	100	140	1213	280	280	660	260	220	410	315	-	440	25	-	-	100	18	-	24	275	275	443	-	500	-	450	-	8	545
1°	NMS 100/250A/A	125	100	140	1286	280	280	713	260	220	410	315	457	-	-	-	-	100	18	24	-	275	275	516	479	-	368	-	40	-	648

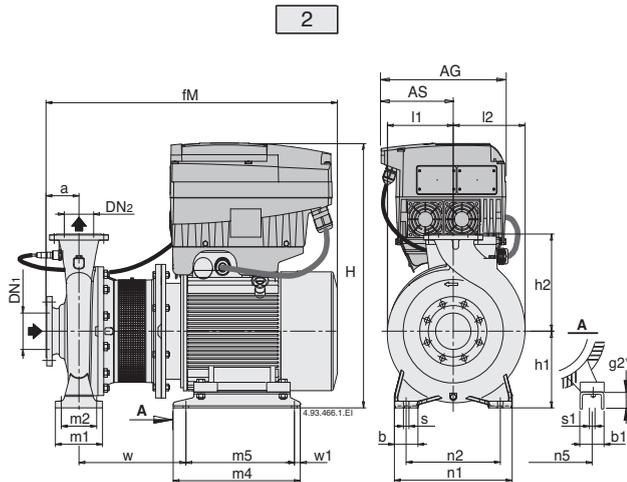
Dimensions and weights



Flanges EN 1092-2

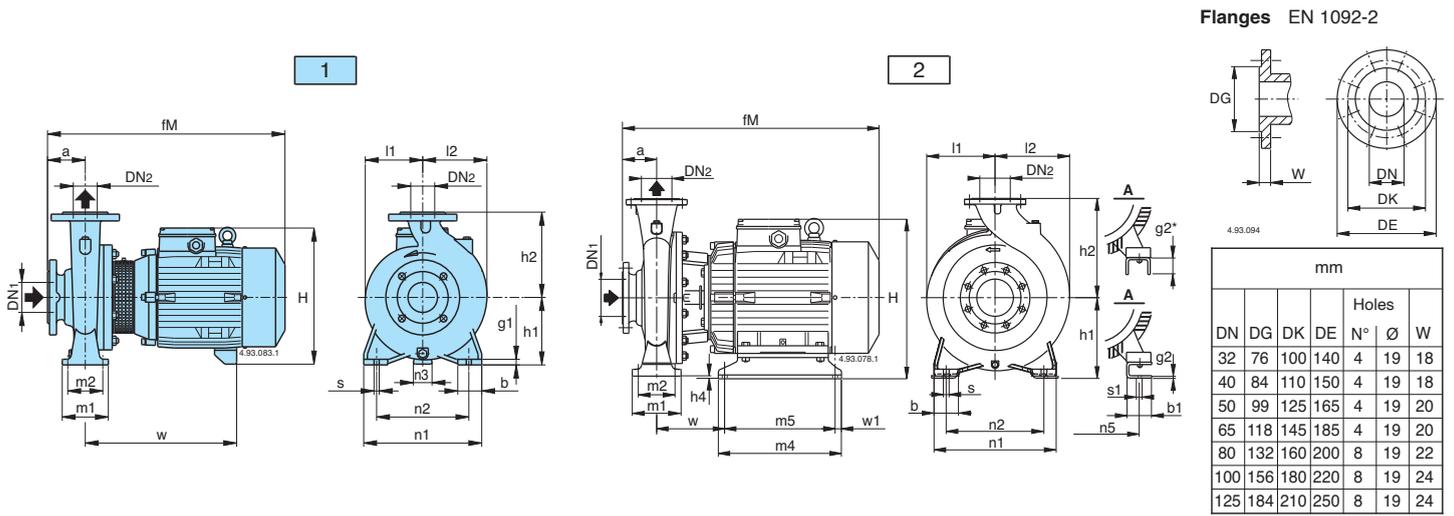


mm						
DN	DG	DK	DE	Holes		
				N°	Ø	W
32	76	100	140	4	19	18
40	84	110	150	4	19	18
50	99	125	165	4	19	20
65	118	145	185	4	19	20
80	132	160	200	8	19	22
100	156	180	220	8	19	24
125	184	210	250	8	19	24



Picture	NMS EI	mm																											kg				
		DN1	DN2	a	fM	AG	AS	h1	h2	H	m1	m2	n1	n2	A	n5	w1	b	AA	b1	s	K	s1	l1	l2	w	BB	m4		B	m5	HA	g2
2	NMS EI 65/250B/A	80	65	100	962	350	190	200	250	715	160	120	360	280	-	279	20	80	-	70	18	-	15	179	195	333	-	440	-	400	-	20*	271
1	NMS EI 65/250A/B	80	65	100	1009	350	190	200	250	778	160	120	360	280	318	-	-	80	70	-	18	19	-	200	200	406	355	-	305	-	25	-	333
1	NMS EI 80/200A/A	100	80	125	987	350	190	180	250	715	125	95	345	280	279	-	-	65	65	-	14	19	-	170	194	394	328	-	279	-	20	-	257
2	NMS EI 80/250D	100	80	125	987	350	190	200	280	715	160	120	400	315	-	279	20	80	-	70	18	-	15	191	211	333	-	440	-	400	-	20*	277
1	NMS EI 80/250C/A	100	80	125	1034	350	190	200	280	778	160	120	400	315	318	-	-	80	70	-	18	19	-	200	210	406	355	-	305	-	25	-	335
2	NMS EI 100/200C	125	100	125	987	350	190	200	280	715	160	120	360	280	-	279	20	80	-	70	18	-	15	180	212	333	-	440	-	400	-	20*	271
1	NMS EI 100/200B/A	125	100	125	1034	350	190	200	280	778	160	120	360	280	318	-	-	80	70	-	18	19	-	200	212	406	355	-	305	-	25	-	373

Dimensions and weights



Picture	B- NM	mm																							kg			
		DN1	DN2	a	fM	h1	h2	H	h4	m1	m2	n1	n2	n3	n5	w1	b	b1	s	s1	l1	l2	w	m4	m5	g1	g2	B-NM
1	B-NM 32/12D-F B-NM 32/12S/A-A/A	50	32	80	405	112	140	240	-	100	70	190	140	37	-	-	50	-	14	-	93	97	245	-	-	12	-	27-27 30-28
	B-NM 32/16B/A B-NM 32/16A/B	50	32	80	410 450	132	160	260	-	100	70	240	190	47	-	-	50	-	14	-	120	120	250 290	-	-	12	-	38,5 42
	B-NM 32/20D/B B-NM 32/20A/B-C/A	50	32	80	450 475	160	180	288 298	-	100	70	240	190	45 60	-	-	50	-	14	-	140	140	290 295	-	-	12	-	47,5 58-56,5
	B-NM 32L/16C B-NM 32L/16A-B	50	32	80	450 475	132	160	260 270	-	100	70	240	190	47 45	-	-	50	-	14	-	121	121	290 295	-	-	10	-	42,5 52,5-49,5
	B-NM 32L/20C B-NM 32L/200A-B	50	32	80	475 563	160	180	298 320	-	100	70	240	190	60 49	-	-	50	-	14	-	142	142	295 334	-	-	12	-	58,3 79,3-73,8
1	B-NM 40/12C/A-F/A B-NM 40/12A/B	65	40	80	410 450	112	140	240	-	100	70	210	160	37	-	-	50	-	14	-	100	113	250 290	-	-	12	-	33-31 36
	B-NM 40/16C/B B-NM 40/16A/B-B/A	65	40	80	450 475	132	160	260 270	-	100	70	240	190	47 45	-	-	50	-	14	-	121	122	290 295	-	-	10	-	43 53-50
	B-NM 40/20C/B-D/B B-NM 40/200A/A-AR/A-B/A	65	40	100	495 583	160	180	298 320	-	100	70	265	212	60 49	-	-	50	-	14	-	142	142	295 334	-	-	12	-	59,5-59 80,5-75
2	B-NM 4025/C/C B-NM 4025/B/C B-NM 4025/A/C	65	40	100	635 685 710	192	225	377	12	125	95	320	250	-	216	20	65	69	14	12	175	175	174	298	258	-	6	124 130 159,5
	B-NM 50/12F/B B-NM 50/12S/B-A/B-D/A	65	50	100	470 495	132	160	260 270	-	100	70	240	190	47 45	-	-	50	-	14	-	122	137	290 295	-	-	10	-	44 54,5-54-52
	B-NM 50/160A/B-B/B	65	50	100	583	160	180	320	-	100	70	265	212	49	-	-	50	-	14	-	126	140	334	-	-	12	-	80-74,5
2	B-NM 50/200B/C B-NM 50/200A/C B-NM 50/200S/C	65	50	100	695 745 769	192	200	377	32	100	70	265	212	-	216	20	50	69	14	12	140	153	234	298	258	-	6	123 132 154
	B-NM 5025/C/C B-NM 5025/B/C	65	50	100	685 710	192	225	377	12	125	95	320	250	-	216	20	65	69	14	12	175	175	174	298	258	-	6	135 156
	B-NM 50/25S-A	65	50	100	766	180	225	386	-	125	95	320	250	-	254	20	65	60	14	15	175	175	166	394	354	-	20*	-
	B-NM 65/12E/A	80	65	100	504	160	180	298	-	125	95	280	212	60	-	-	65	-	14	-	130	154	303	-	-	12	-	57,3
1*	B-NM 65/125A/B-C/B	80	65	100	588	160	180	320	-	125	95	280	212	49	-	-	65	-	14	-	130	154	339	-	-	12	-	80,5-74,5
	B-NM 65/160D/B B-NM 65/160C/C	80	65	100	583 660	160	200	320 345	-	125	95	280	212	49 40	-	-	65	-	14	-	140	179	334 430	-	-	12	-	80,2 101
	B-NM 65/160B/C B-NM 65/160A/C-AR	80	65	100	745 770	192	200	377	32	125	95	280	212	-	216	20	65	69	14	12	140	179	234	298	258	-	6	140 152
2	B-NM 65/200C/C	80	65	100	775	192	225	377	12	125	95	320	250	-	216	20	65	69	14	12	159	179	239	298	258	-	6	160
	B-NM 65/250C/B	80	65	100	825	202	250	408	2	160	120	360	280	-	254	20	80	90	18	14	179	195	245	400	360	-	42*	210
1*	B-NM 80/160E/B B-NM 80/160D/C	100	80	125	608 685	180	225	340 365	-	125	95	320	250	60 50	-	-	65	-	14	-	153	181	334 430	-	-	12	-	89,4 109
	B-NM 80/160C/C B-NM 80/160B/C	100	80	125	775 800	192	225	377	12	125	95	320	250	-	216	20	65	69	14	12	153	181	239	298	258	-	6	149 161
2	B-NM 80/16A	100	80	125	789	180	225	386	-	125	95	320	250	-	254	20	65	60	14	15	153	181	164	394	354	-	20*	-

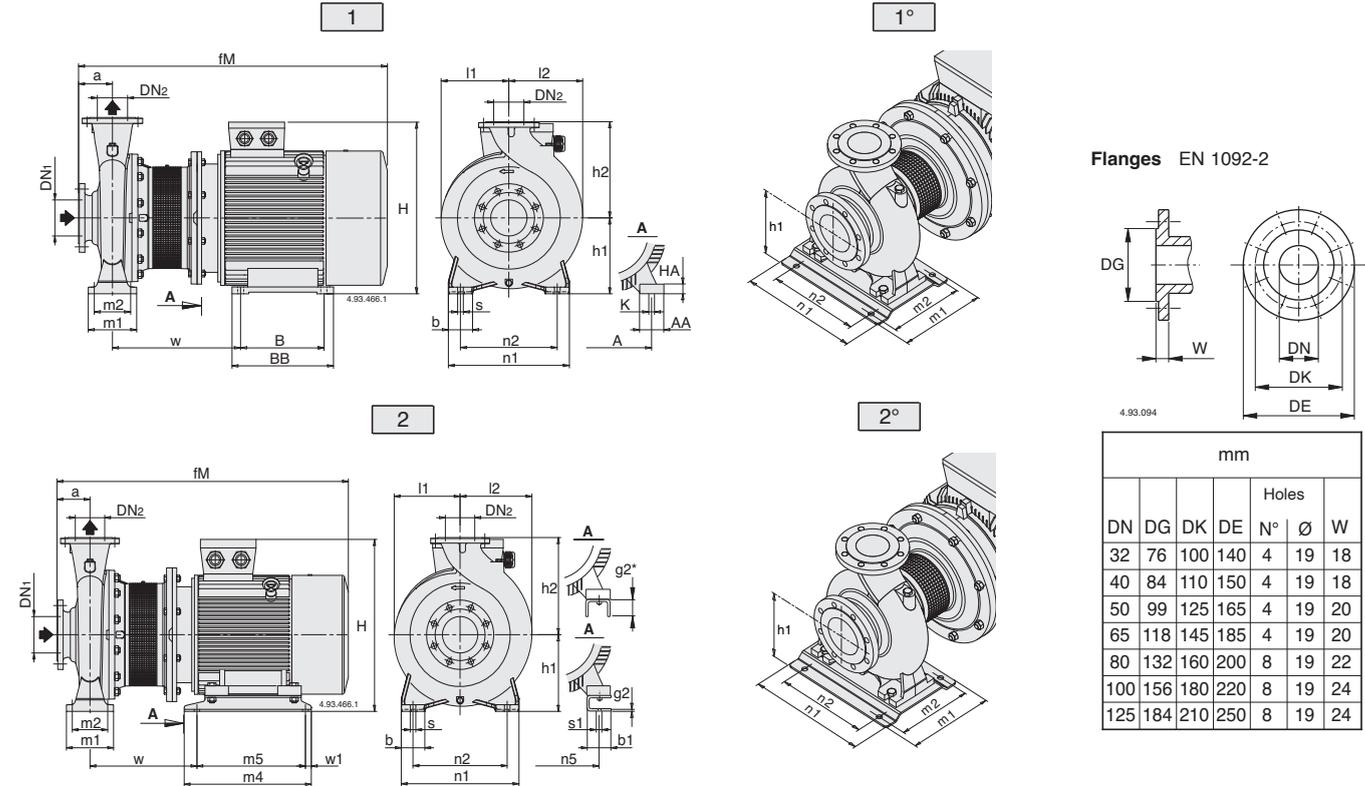
* Version without coupling guard

B-NM, B-NMS

Close Coupled Centrifugal Pumps with flanged connections



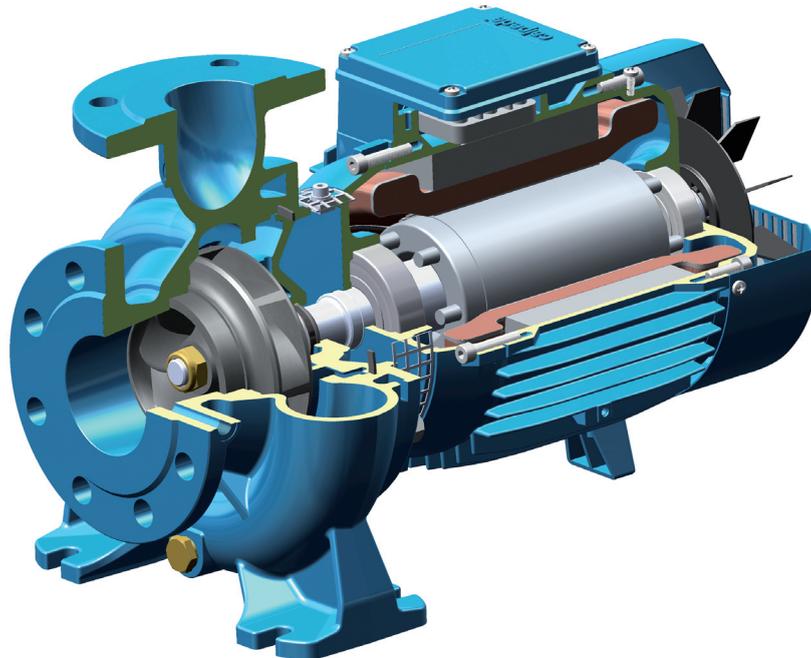
Dimensions and weights



Picture	B-NMS	mm																								kg					
		DN1	DN2	a	fM	h1	h2	H	m1	m2	n1	n2	A	n5	w1	b	AA	b1	s	K	s1	l1	l2	w	BB		m4	B	m5	HA	g2
2	B-NMS 65/200A-B	80	65	100	864	180	225	386	125	95	320	350	-	254	20	65	-	60	14	-	15	159	179	331	-	394	-	354	-	20*	
2	B-NMS 65/250B/A	80	65	100	962	200	250	439	160	120	360	280	-	279	20	80	-	70	18	-	15	179	195	333	-	440	-	400	-	20*	
1	B-NMS 65/250A/B	80	65	100	1009	200	250	496	160	120	360	280	318	-	-	80	70	-	18	19	-	200	200	406	355	-	305	-	25	-	308
2	B-NMS 80/200B/B	100	80	125	936	180	250	387	125	95	345	280	-	254	20	65	-	60	14	-	15	175	194	331	-	350	-	310	-	5	
1	B-NMS 80/200A/A	100	80	125	987	180	250	439	125	95	345	280	279	-	-	65	65	-	14	15	-	170	194	394	328	-	279	-	20	-	231
2	B-NMS 80/250E/A	100	80	125	936	200	280	407	160	120	400	315	-	254	20	80	-	60	18	-	15	191	210	331	-	394	-	354	-	6	
2	B-NMS 80/250D/A	100	80	125	987	200	280	439	160	120	400	315	-	279	20	80	-	70	18	-	15	191	212	333	-	440	-	400	-	20*	287
1	B-NMS 80/250C/A	100	80	125	1034	200	280	496	160	120	400	315	318	-	-	80	70	-	18	19	-	200	210	406	355	-	305	-	25	-	
1°	B-NMS 80/250B/A	100	80	125	1129	225	280	563	298	258	410	315	356	-	-	-	80	-	18	19	-	225	225	445	361	-	311	-	34	-	
2°	B-NMS 80/250A/A	100	80	125	1198	280	280	660	260	220	410	315	-	406	25	-	-	100	18	-	24	275	275	443	-	500	-	450	-	8	
2	B-NMS 100/200D/A-E/B	125	100	125	936	200	280	407	160	120	360	280	-	254	20	80	-	60	18	-	15	180	212	331	-	394	-	354	-	6	
2	B-NMS 100/200C/A	125	100	125	987	200	280	439	160	120	360	280	-	279	20	80	-	70	18	-	15	180	212	333	-	440	-	400	-	20*	
1	B-NMS 100/200B/A	125	100	125	1034	200	280	496	160	120	360	280	318	-	-	80	70	-	18	19	-	200	212	406	355	-	305	-	25	-	352
1°	B-NMS 100/200A/A	125	100	125	1129	225	280	563	298	258	410	315	356	-	-	-	80	-	18	19	-	225	225	445	361	-	311	-	34	-	
2°	B-NMS 100/250B/A	125	100	140	1213	280	280	660	260	220	410	315	-	440	25	-	-	100	18	-	24	275	275	443	-	500	-	450	-	8	
1°	B-NMS 100/250A/A	125	100	140	1286	280	280	713	260	220	410	315	457	-	-	-	100	-	18	24	-	275	275	516	479	-	368	-	40	-	

Features

NM



Cutting edge hydraulics

The geometry of the impeller and the pump casing are optimized to achieve maximum efficiency and the best suction capability.

Flexible

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

Compact Design

The compact design allows for easy installation even in confined spaces.

Exclusive design

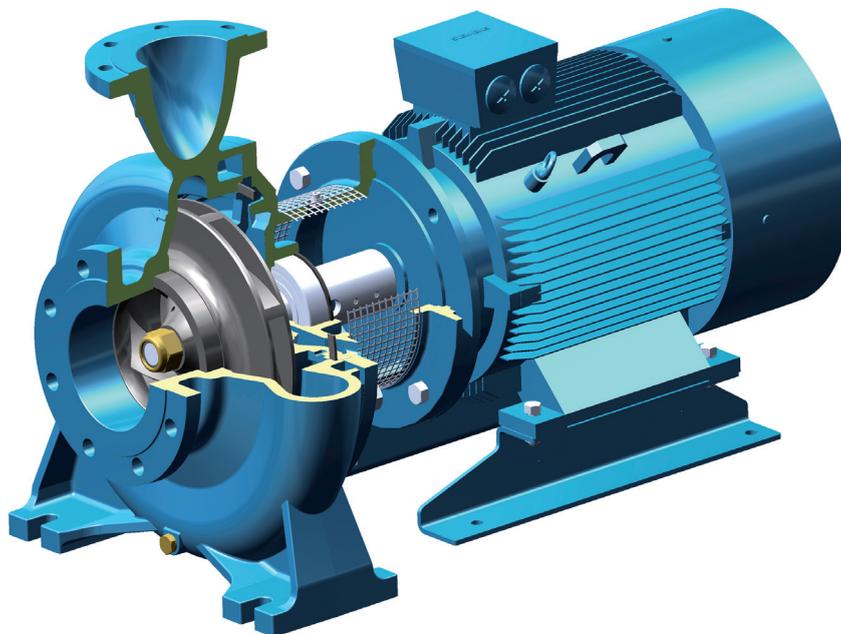
An innovative, patented guard prevents contact with rotating parts, providing protection to the end user whilst allowing for inspection of the mechanical seal.

Reliable

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

Features

NMS



Cutting edge hydraulics

The geometry of the impeller and the pump casing are optimized to achieve maximum efficiency and the best suction capability.

Flexible

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

New lantern bracket construction

The lantern brackets incorporate a thrust bearing on the hydraulic side which guarantees the elimination of additional loads on the motor bearings. The flange is sized to be used with standard motors B35.

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.

Simplified motor maintenance

The presence of the thrust bearing on the hydraulic side makes it easier to remove the motor, facilitating maintenance operations and eliminating the risks of damage to the hydraulic parts.

NM4, NMS4

Close Coupled Centrifugal Pumps
n ≈ 1450 rpm



The electropumps NM4, B-NM4, NMS4, B-NMS4 series comply with the European Regulation no. 547/2012.

Materiali

Components	NM4, NMS4	B-NM4, B-NMS4
Pump casing	Cast iron	Bronze
Lantern bracket NM4	GJL 200 EN 1561	CC480K EN 1982
Casing cover for NMS4	Cast iron GJL 200 EN 1561	
Lantern bracket NMS4	Cast iron GJL 200 EN 1561	
Impeller	Cast iron GJL 200 EN 1561	Bronze CC480K EN 1982
	Brass CW617N EN 12165	
	For NM4 25/125 - 25/160 - 25/200 - NM4 32/16 - 32/20 - 40/20	
Shaft	Cr-Ni steel AISI 303	Cr Ni Mo steel
	AISI 430 from 1,5 kW to 15 kW	AISI 316
Mechanical seal	Carbon - Ceramic - NBR	
Counter-flanges	Steel 1.0044 EN 10025-2 (Fe 430B)	

Special features on request

- Other voltages. - Frequency 60 Hz (as per 60 Hz data sheet).
- Protection IP 55. - Special mechanical seal.
- Higher or lower liquid or ambient temperatures.
- Motor suitable for operation with frequency converter up to 0,33 kW.

Construction

Close-coupled centrifugal pumps; electric motor with extended shaft directly connected to the pump up to 15 kW, new bracket construction for standard motors (Stub-shaft construction) from 18,5 to 75 kW with integrated thrust bearing. Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733 with additional sizes for completion. NM(S)4: version with pump casing and lantern bracket in cast iron. B-NM(S)4: version with pump casing and lantern bracket/casing cover in bronze. (the pumps are supplied fully painted).

Connections

Sizes	Connections
NM4 25/...	Threaded ports ISO 228
from NM4 32/.. to NMS4 150/..	Flanges PN 10-16, EN 1092-2 (PN 10 for DN 200)

Counter-flanges (on request)

Sizes	Flanges
from NM4 32/.. to NM4 50/..	Screwed flanges EN 1092-1, PN 16
from NM4 32/.. to NMS4 150/..	Flanges for welding EN 1092-1, PN 10-16 (PN 10 for DN 200)

Version with frequency converter (on request)

Applications

For clean liquids without abrasives, which are non-aggressive for the pump materials (contents of solids up to 0,2%). For water supply. For heating, air conditioning, cooling and circulation plants. For civil and industrial applications. When low noise operating is required. For irrigation.

Operating conditions

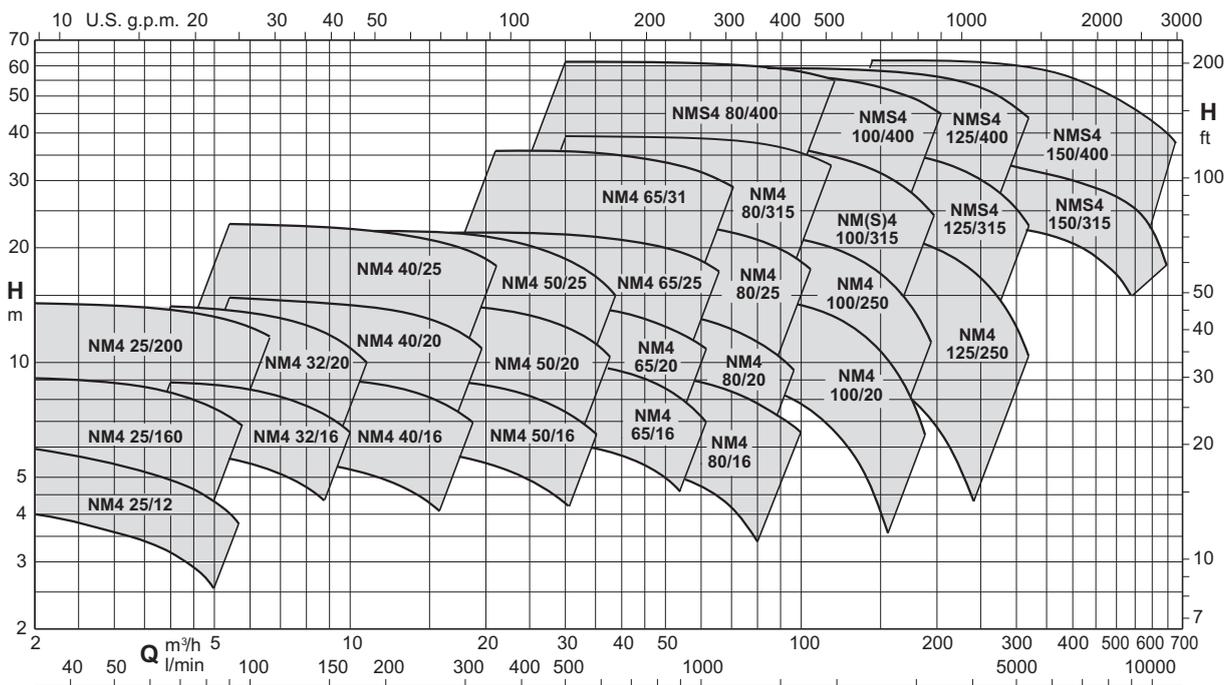
Liquid temperature from -10 °C to +90 °C.
Ambient temperature up to 40 °C.
Total suction lift up to 7 m.
Maximum permissible working pressure up to 10 bar (16 bar for NM4 40/16,20; NM4 50/16; NM4 65/16,20,25; NM(S)4 80/16,20,25,31,400; NM4 100/20; NMS4 125-315; NMS4 150-315,400 (Flanges PN10)), (10 bar bronze version).
Continuous duty.

Motor

4-pole induction motor, 50 Hz (n ≈ 1450 rpm).
NM4, NMS4: three-phase 230/400 V ± 10% up to 3 kW;
400/690 V ± 10% from 4 to 75 kW.

Insulation class F.
Protection IP 54 (IP 55 for NMS4).
Motor suitable for operation with frequency converter from 0,37 kW.
IE3 efficiency class for three-phase motors (IE2 up to 0,65 kW).
Constructed in accordance with: EN 60034-1; EN 60034-30-1.

Coverage chart n ≈ 1450 rpm



Pumps with frequency converter

The **NM4 EI** pumps are available with power from 0,25 kW up to 30 kW, the pumps are equipped with **I-MAT** installed on board which allows to realize a variable-speed system extremely compact and efficient, ideal in applications of water supply and in the distribution of hot and cold water.

The pump is equipped with transducers suitable for operation and is already programmed at the factory.

Advantages

- Energy saving
- Compact design
- Easy to use
- Programmable to suit the system requirements
- Reliability

Costruction

The system comprises of:

- Pump
- Induction motor
- I-MAT Frequency converter
- Motor adapter for the motor mounting of the frequency converter
- Connection cable between frequency converter and induction motor
- Transducers

Main features

Rated motor power output from 0,25 kW to 30 kW

Control range from 870 to 1450 rpm (4-pole)

Protection against dry running

Protection against operations with closed valve ports

Protection against system leakages

Protection against overcurrent in the motor

Protection against overvoltage and undervoltage of the power supply

Protection against current unbalances between phases

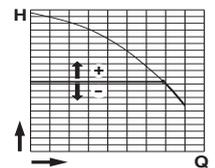


Operating modes



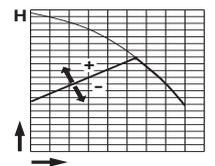
Constant pressure mode with pressure transducer

In this mode, the system maintains the preset pressure when the flow required by the installation changes.



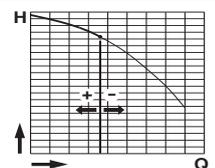
Proportional pressure mode with pressure transducer

In this mode the system changes the working pressure according to the required flow rate.



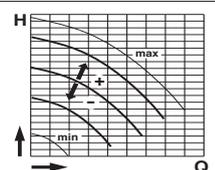
Constant flow mode with flow meter

In this mode the system maintains a constant flow rate value in a point of the installation according to the required pressure.



Fixed speed mode with setting of the speed preferential rotation.

In this mode, by changing the working frequency, you may choose any operational curve included within the working range.



Constant temperature mode with temperature transducer

In this mode the system keeps the temperature constant inside a system by changing the speed of the pump.

Performance n ≈ 1450 rpm

B-NMS4	NM4 - NMS4	P ₂		Q m ³ /h																				
		kW	HP																					
				l/min	48	54	60	66	75	84	96	108	120	132	150	168	180	192	210	240	270	300	330	
B- NM4 100/20C/A	NM4 100/20C/A	3	4	H m	9,4	9,3	9,2	9,1	8,9	8,5	8	7,3	6,5	5,6	4									
B- NM4 100/20B/A	NM4 100/20B/A	4	5,5		12	11,9	11,8	11,7	11,5	11,2	10,7	10	9,3	8,4	6,7	4,5								
B- NM4 100/20A/C	NM4 100/20A/C	5,5	7,5		15,2	15,2	15,1	15	14,9	14,7	14,3	13,8	13,1	12,2	10,7	9	7,5*	6*						
B- NMS4 100/250B/A	NM4 100/25B/B	7,5	10		19,5	19,5	19,4	19,3	19	18,7	18,2	17,5	16,6	15,6	13,8	11,7	10	8,4	5,5					
B- NMS4 100/250A/A	NM4 100/25A/B	9,2	12,5		22,3	22,3	22,2	22,1	21,9	21,7	21,2	20,5	19,8	18,8	17,1	15	13,4	11,7	8,9					
B- NMS4 100/315C/A	NM4 100/31C	11	15		26,9	26,9	26,8	26,6	26,2	25,7	24,9	23,8	22,7	21,3	18,9	15,9	13,7	11,3*						
B- NMS4 100/315B/A	NM4 100/31B	15	20		31,5	31,5	31,4	31,3	31,2	30,8	30,2	29,3	28,2	26,9	24,6	21,8	19,8	17,6*	14*					
B- NMS4 100/315A/A	NMS4 100/315A/A	18,5	25		36,9	36,9	36,8	36,7	36,6	36,4	36	35,3	34,5	33,4	31,4	29	27,2	25,3*	22,2*					
B- NMS4 100/400C/A	NMS4 100/400C/A	22	30		41,3	41,2	41,1	41	40,7	40,4	39,8	39	38	36,5	34	31	28,7	26						
B- NMS4 100/400B/A	NMS4 100/400B/A	30	40		50,2	50,1	50	49,9	49,7	49,4	48,8	48	47,1	46	44	41,3	39,5	37	33,5*					
B- NMS4 100/400A/A	NMS4 100/400A/A	37	50	58,2	58,1	58	57,9	57,8	57,6	57,2	56,3	55,7	54,5	52,7	50,5	49	47	44*						

B-NMS4	NM4 - NMS4	P ₂		Q m ³ /h																			
		kW	HP																				
				l/min	84	96	108	120	132	150	168	180	192	210	240	270	300	330	360	390	420	450	480
B- NMS4 125/250E/A	NM4 125/25E/B	5,5	7,5	H m	11	10,8	10,5	10,1	9,7	9,1	8,3	7,8	7,2	6,2	4,4								
B- NMS4 125/250D/A	NM4 125/25D/B	7,5	10		14	13,9	13,7	13,4	13	12,4	11,6	11	10,4	9,4	7,4	5,1							
B- NMS4 125/250C/A	NM4 125/25C/B	9,2	12,5		16,7	16,6	16,4	16,2	15,9	15,4	14,6	14,1	13,5	12,5	10,4	8,2	5,8						
B- NMS4 125/250B/A	NM4 125/25B	11	15		19,3	19,2	19,1	18,9	18,7	18,2	17,5	17	16,3	15,3	13,3	10,9	8,2						
B- NMS4 125/250A/A	NM4 125/25A	15	20		22,7	22,7	22,6	22,4	22,2	21,8	21,2	20,8	20,1	19,3	17,4	15	12,4	9,3					
B- NMS4 125/315C/A	NMS4 125/315C/A	18,5	25		27,9	27,8	27,7	27,6	27,2	26,5	25,6	24,9	24	22,8	20,2	17	13,5	9,5*					
B- NMS4 125/315B/A	NMS4 125/315B/A	22	30		31,8	31,7	31,6	31,5	31,1	30,6	29,7	29,1	28,5	27,3	24,9	22	18,5	14,3*					
B- NMS4 125/315A/A	NMS4 125/315A/A	30	40		36,8	36,8	36,7	36,6	36,4	35,9	35,2	34,7	34,2	33,2	31	28,4	25,3	21,6*					
B- NMS4 125/400C/A	NMS4 125/400C/A	37	50		45,4	45,3	45,2	45,1	44,9	44,4	43,7	43	42	40	37	33	28,5*	23,5*					
B- NMS4 125/400B/A	NMS4 125/400B/A	45	60		51,4	51,3	51,2	51,1	50,9	50,4	49,7	49	48,2	46,8	44	40,5	36*	31,5*					
B- NMS4 125/400A/A	NMS4 125/400A/A	55	75	59,2	59,1	59	58,9	58,7	58,2	57,7	57,2	56,7	55,7	53,5	50,5	46,5*	42,5*						

B-NMS4	NM4 - NMS4	P ₂		Q m ³ /h																		
		kW	HP																			
				l/min	132	150	168	180	192	210	240	270	300	330	360	390	420	450	480	540	600	660
B- NMS4 150/315B/B	NMS4 150/315B/B	30	40	H m	25,3	25,2	25,1	25,0	24,9	24,7	24,3	23,8	23,2	22,5	21,6	20,7	19,8	18,7	17,6	15,1		
B- NMS4 150/315A/B	NMS4 150/315A/B	37	50		29,5	29,5	29,5	29,5	29,4	29,3	29,0	28,6	28,1	27,4	26,7	25,9	24,9	23,8	22,6	19,9	16,7	
B- NMS4 150/315S	NMS4 150/315S	45	60		34,9	34,9	34,9	34,9	34,8	34,7	34,5	34,1	33,6	33,0	32,2	31,4	30,4	29,4	28,2	25,5	22,3	18,7
B- NMS4 150/400B/B	NMS4 150/400B/B	55	75		42,2	42,3	42,3	42,2	42,2	42	41,6	41	40,3	39,5	38,6	37,5	36,4	35	33,5	29,8	25,4	
B- NMS4 150/400A/B	NMS4 150/400A/B	75	100		52,5	52,6	52,6	52,6	52,5	52,4	52,2	51,8	51,3	50,6	49,6	48,5	47,2	45,8	44,2	40,6	36,7	32,2
B- NMS4 150/400S	NMS4 150/400S	90	120		60,8	60,9	61	61	61	61	60,7	60,3	59,6	58,8	57,7	56,4	54,9	53,2	51,4	47,3	42,7	37,6

NM4, NMS4 Standard construction.

B-NM4, B-NMS4 Bronze construction.

P₂ Rated motor power output.

H Total head in m.

* Maximum suction lift 1-2 m.

Tolerances according to UNI EN ISO 9906:2012

Rated currents

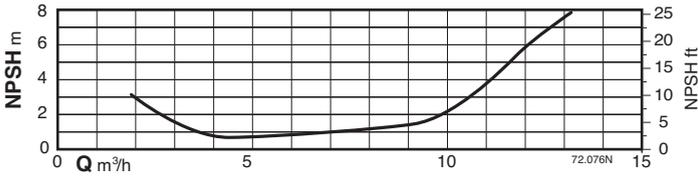
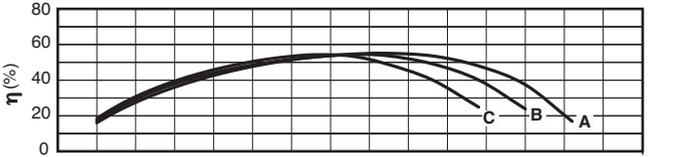
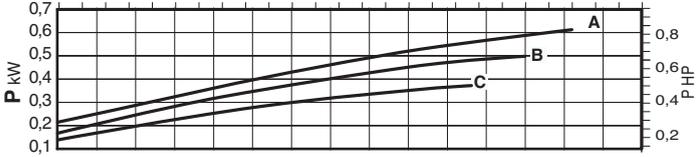
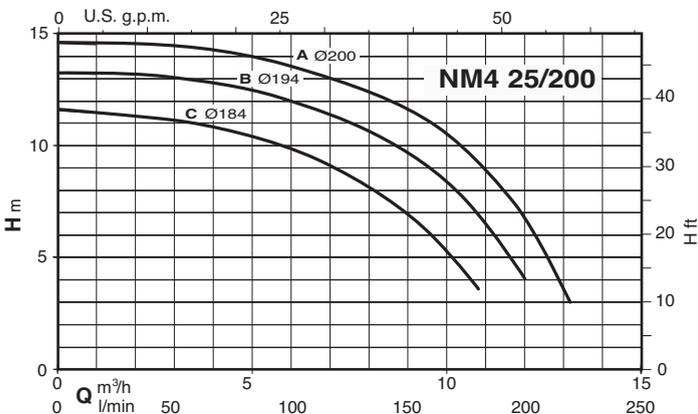
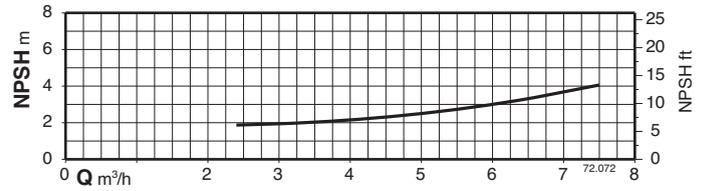
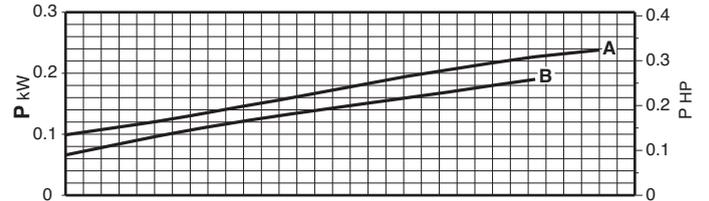
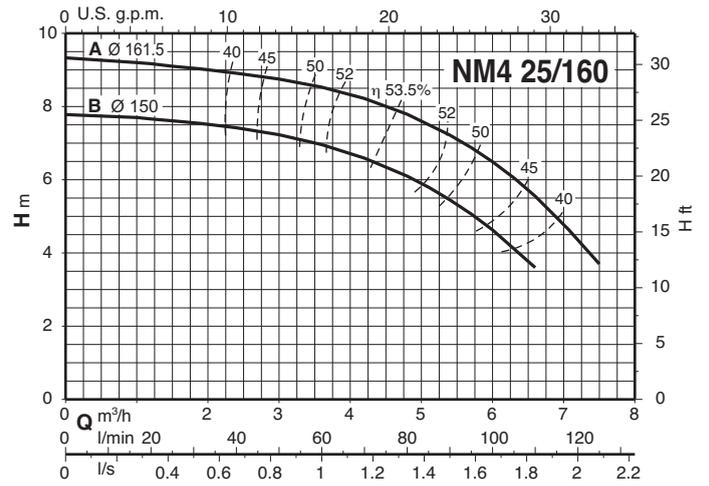
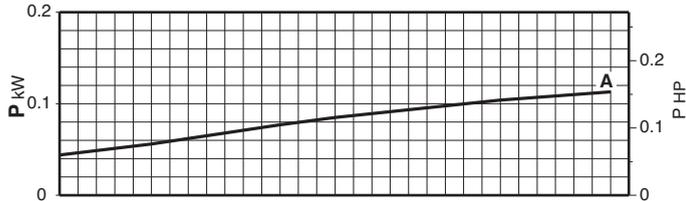
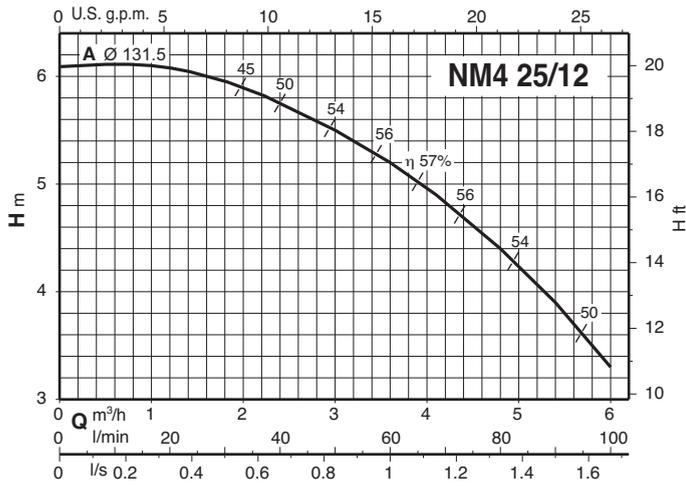
P ₂		230 V Δ / 400 V Y		
kW	HP	I _N A	I _N A	I _A /I _N
0,25	0,34	1,4	0,8	3,7
0,37	0,5	1,65	0,95	4,2
0,55	0,75	2,6	1,5	4,8
0,75	1	3,3	1,9	7,2
1,1	1,5	5	2,9	6,6
1,5	2	6	3,5	8,3
2,2	3	8,6	5	8,6
3	4	11,1	6,4	5,8

P ₂		400 V Δ / 690 V Y		
kW	HP	I _N A	I _N A	I _A /I _N
4	5,5	8,3	4,8	7,2
5,5	7,5	12,5	7,2	7,2
7,5	10	16	9,2	7,1
9,2	12,5	20,5	11,8	7,4
11	15	22,5	13	9,6
15	20	29	16,7	9,1
18,5	25	35	20,5	7,2
22	30	41	24	6,8
30	40	55	32	7,3
37	50	66	38,5	6,4
45	60	80	46,5	6,4
55	75	96	56	6,8
75	100	133	77	6,9

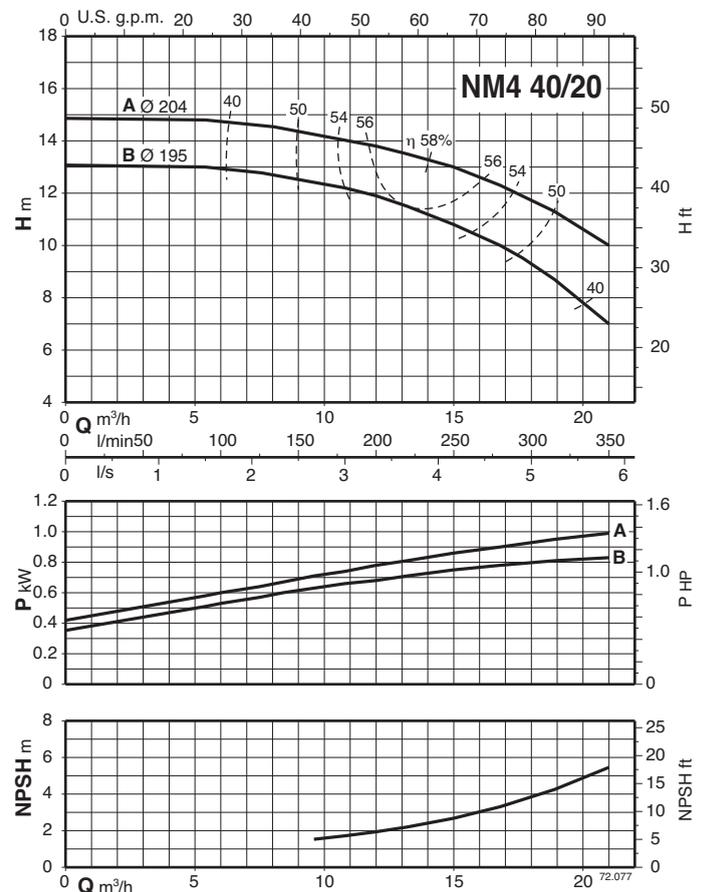
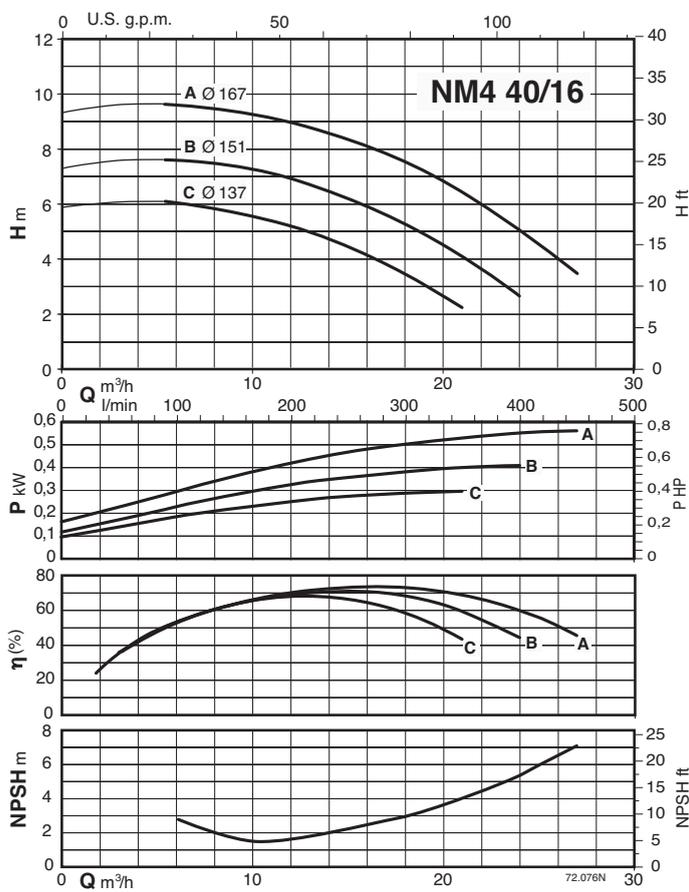
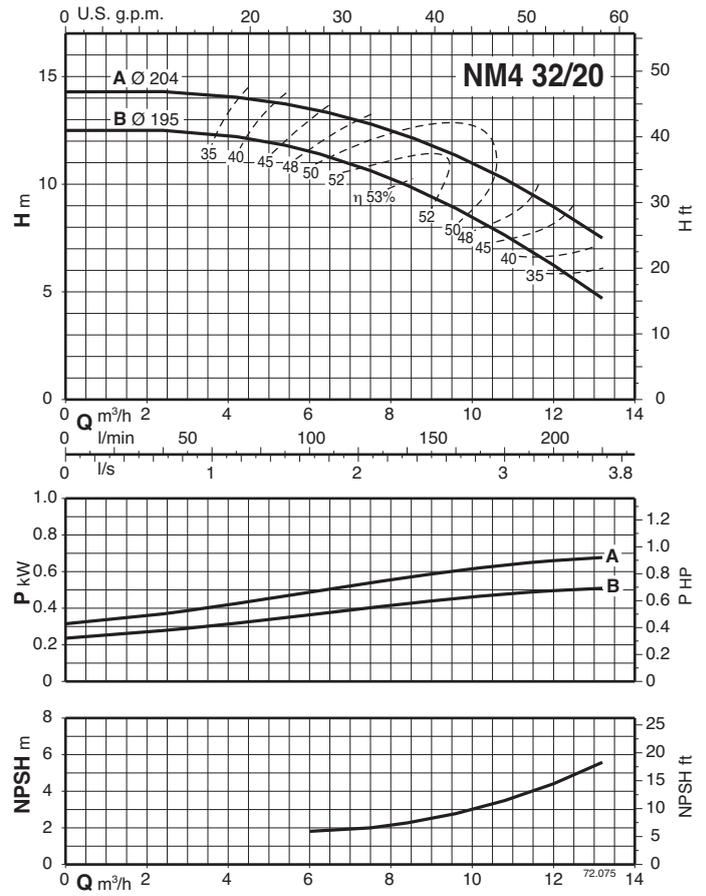
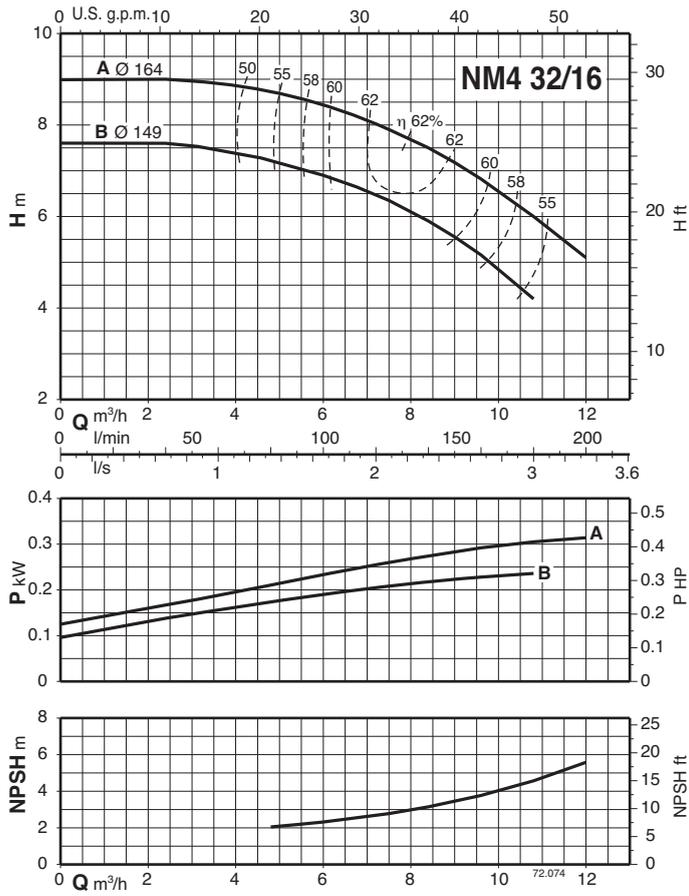
P₂ Rated motor power output.

I_A/I_N D.O.L. starting current / Nominal current

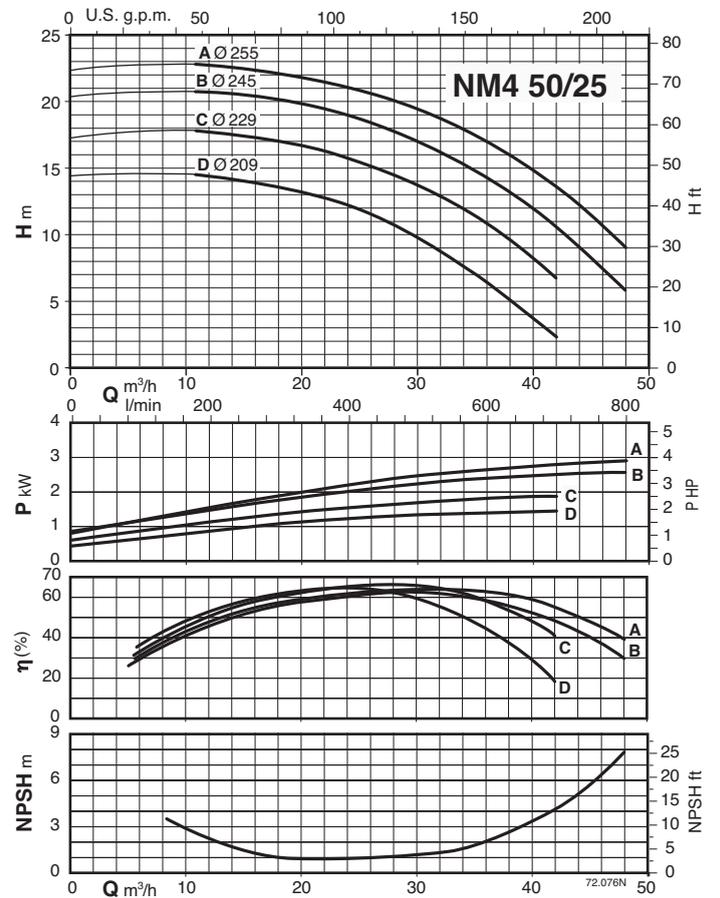
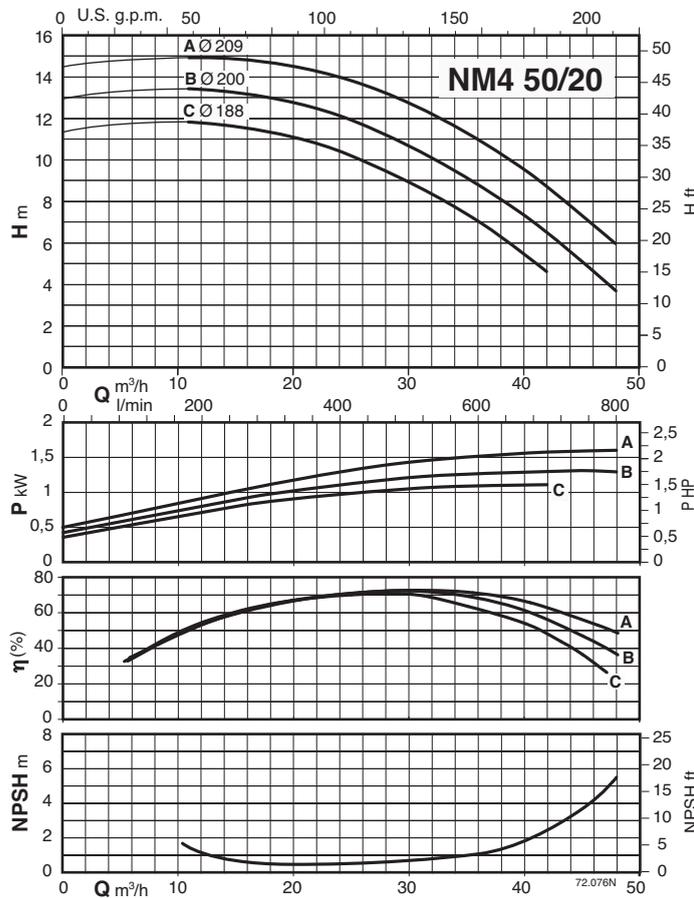
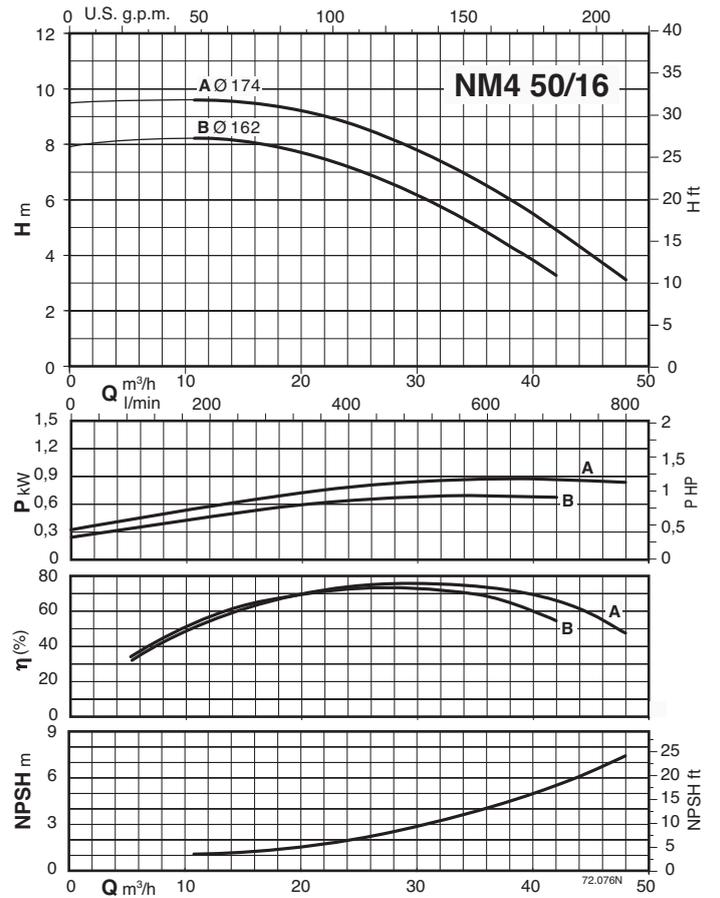
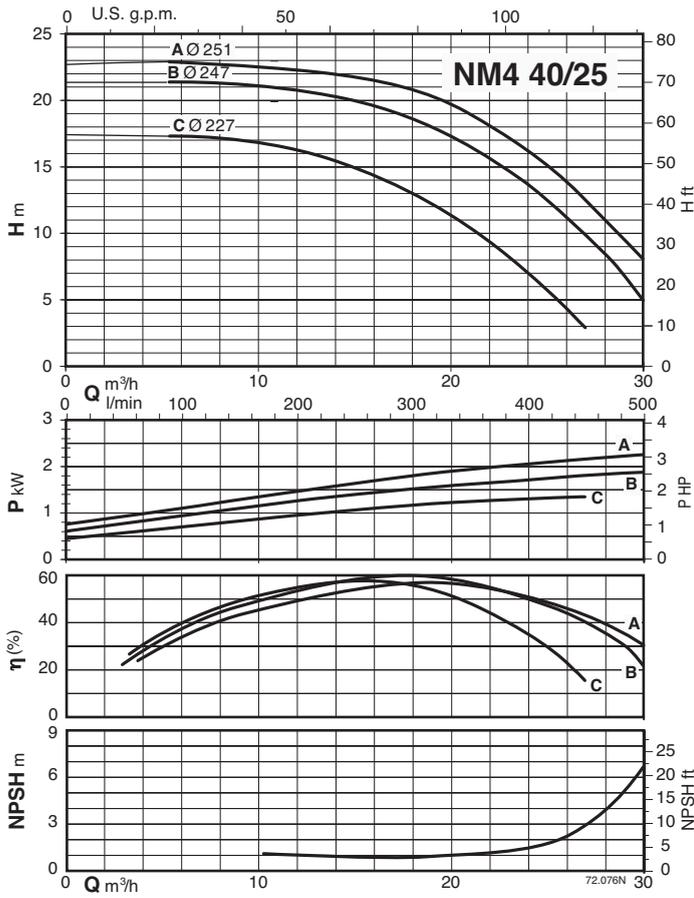
Characteristic curves $n \approx 1450$ rpm



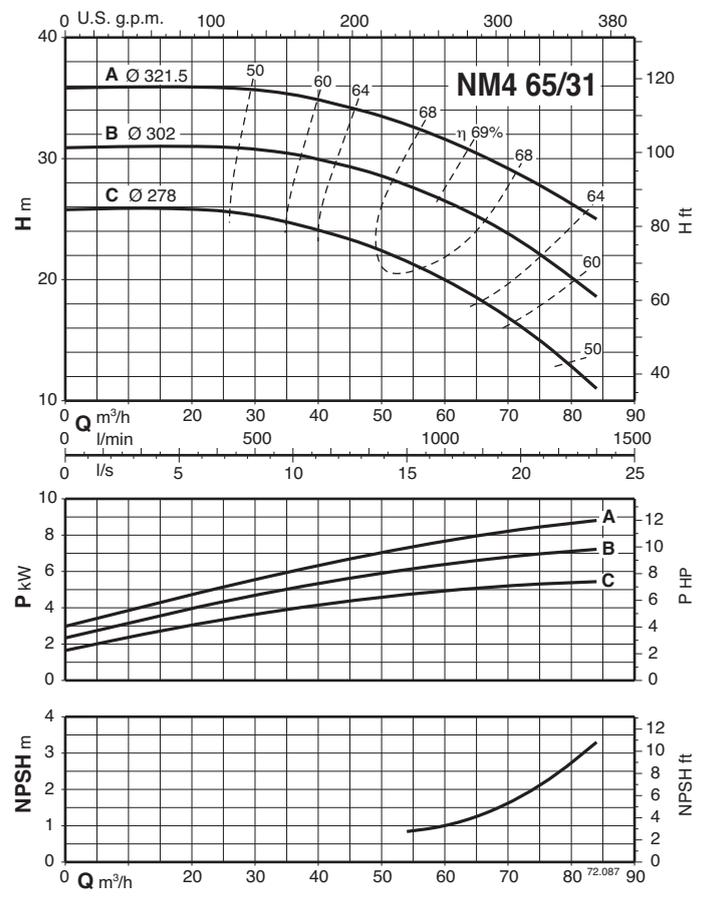
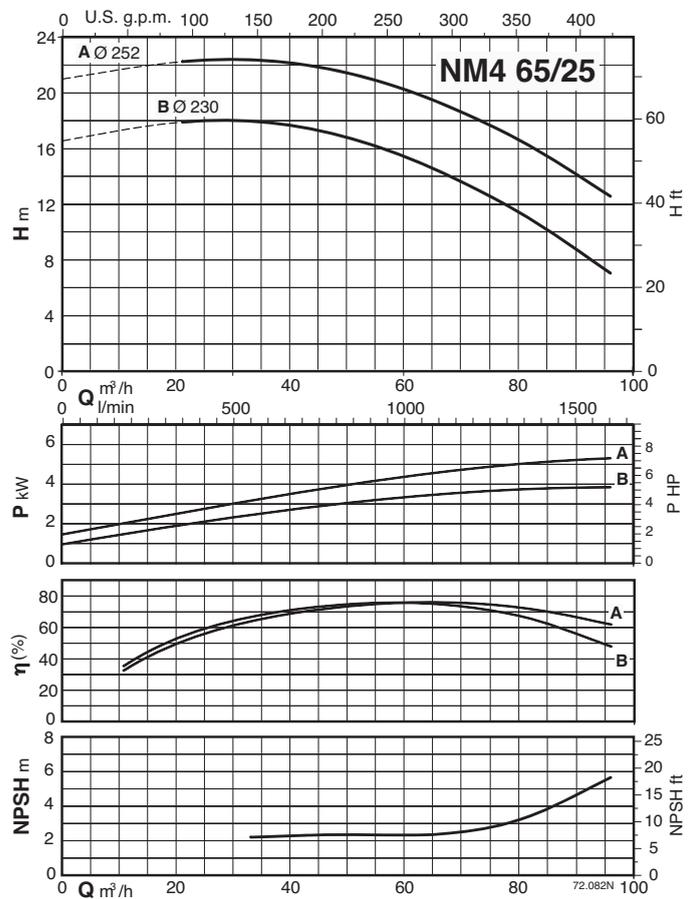
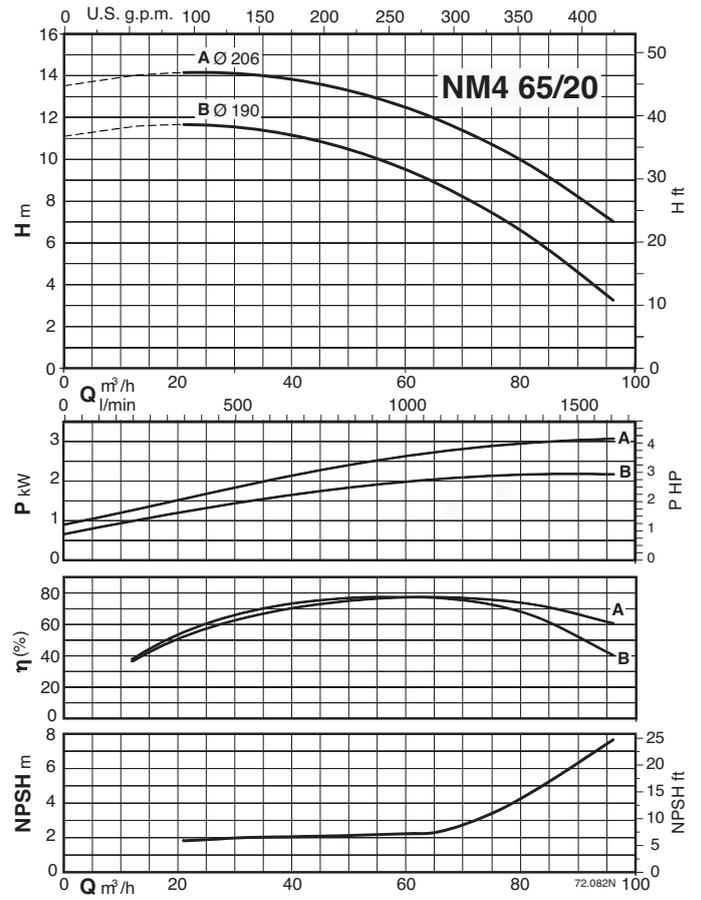
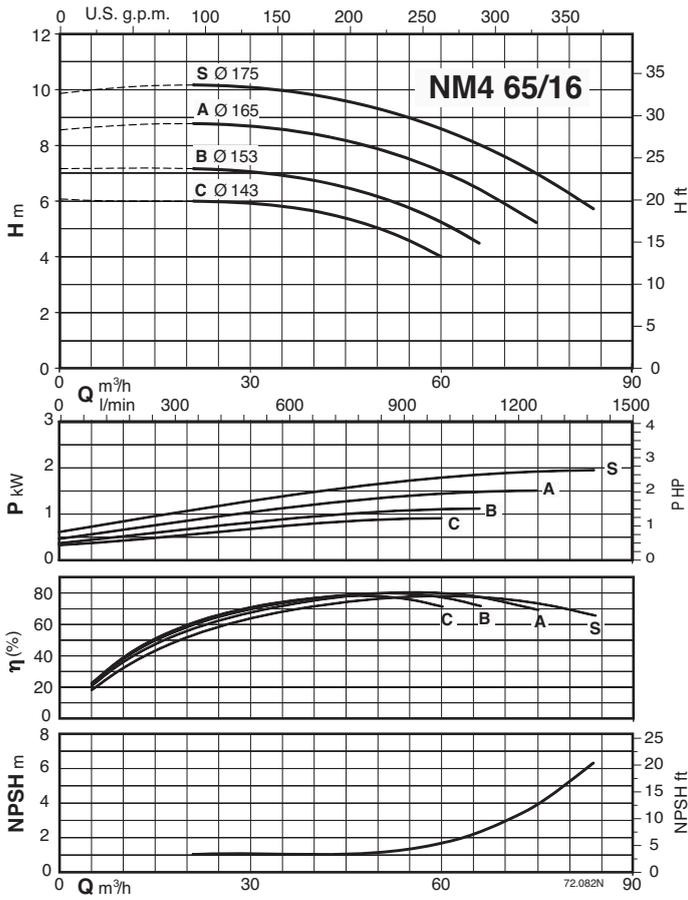
Characteristic curves $n \approx 1450$ rpm



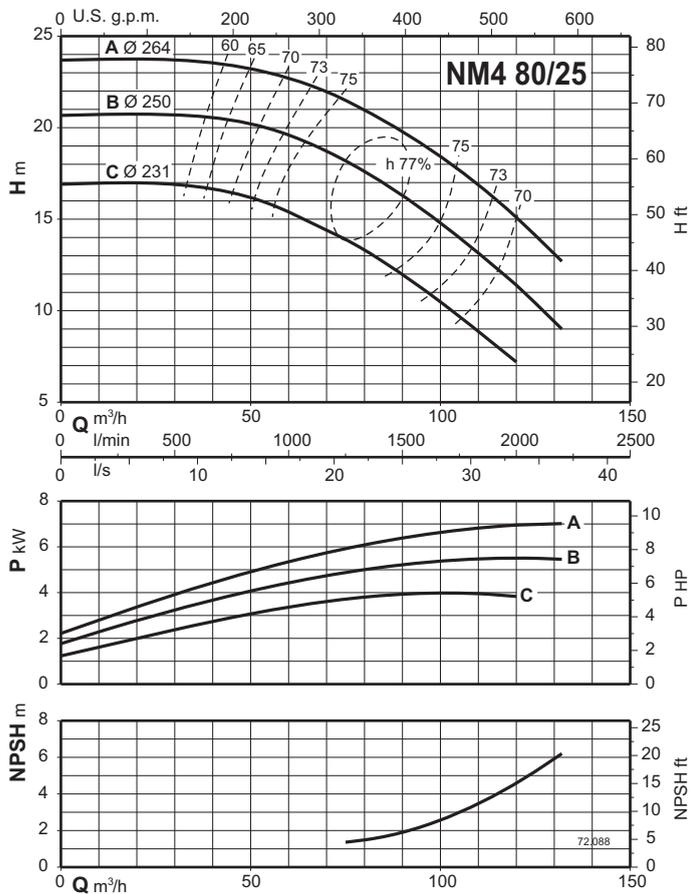
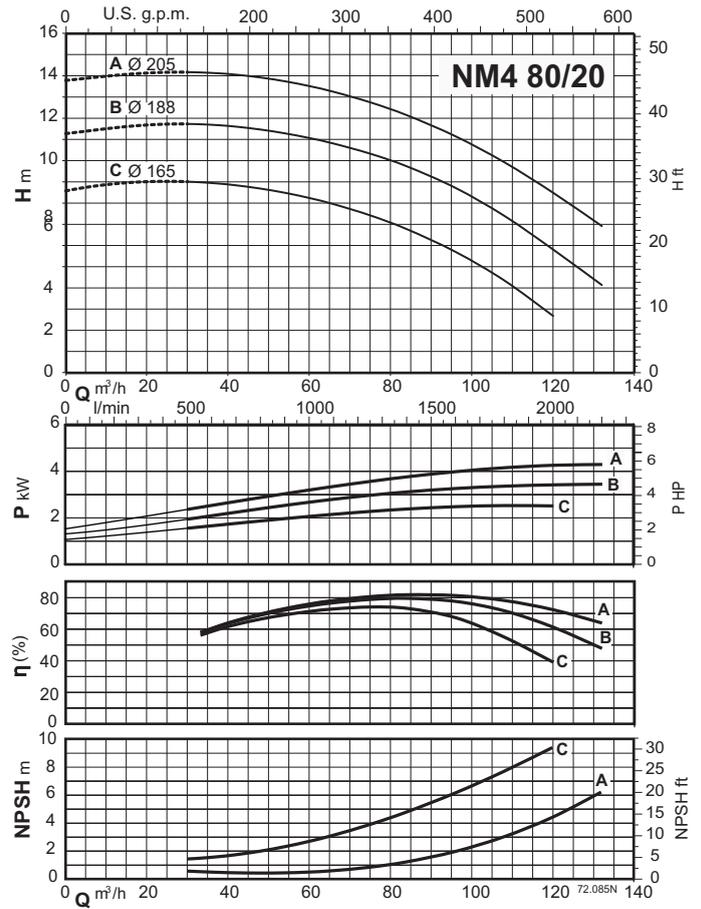
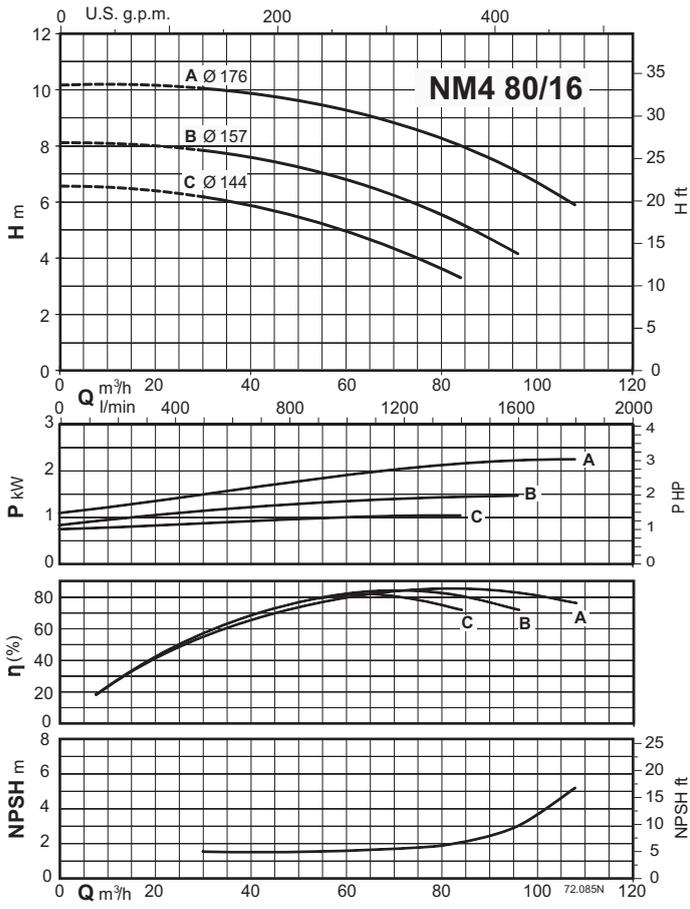
Characteristic curves $n \approx 1450$ rpm



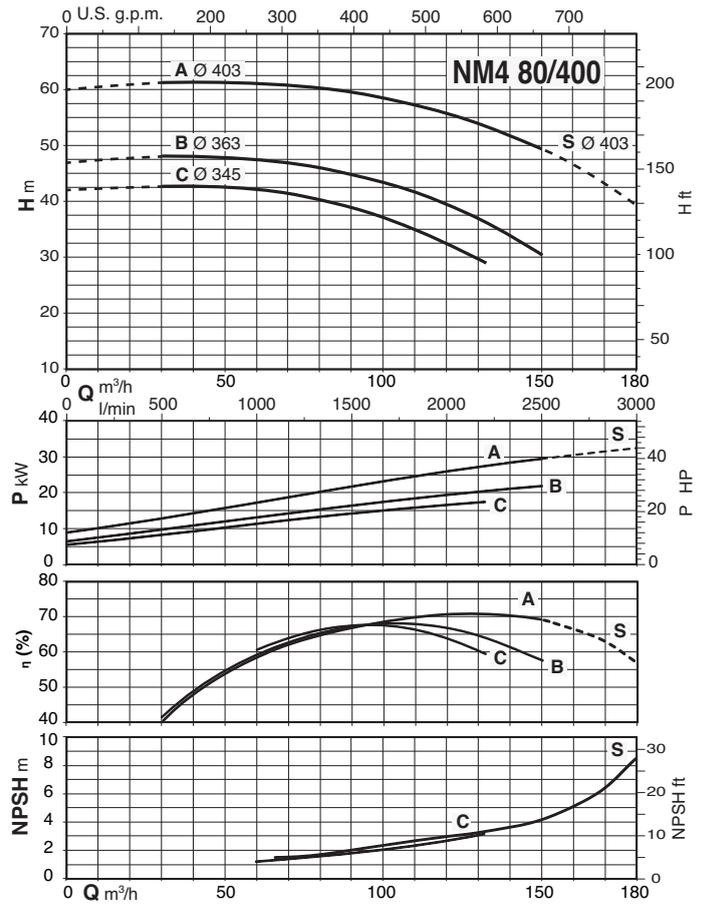
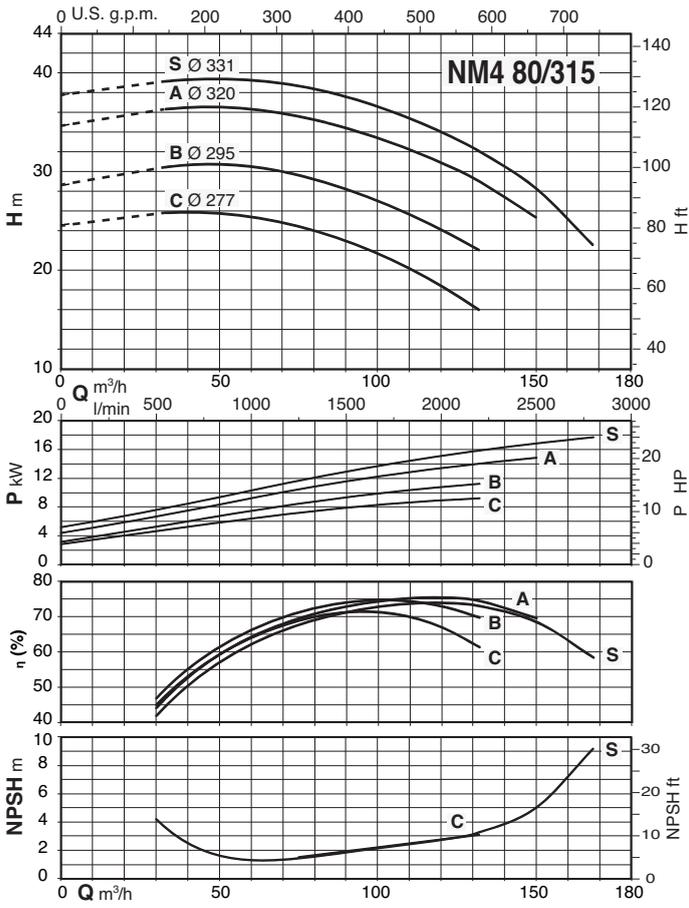
Characteristic curves $n \approx 1450$ rpm



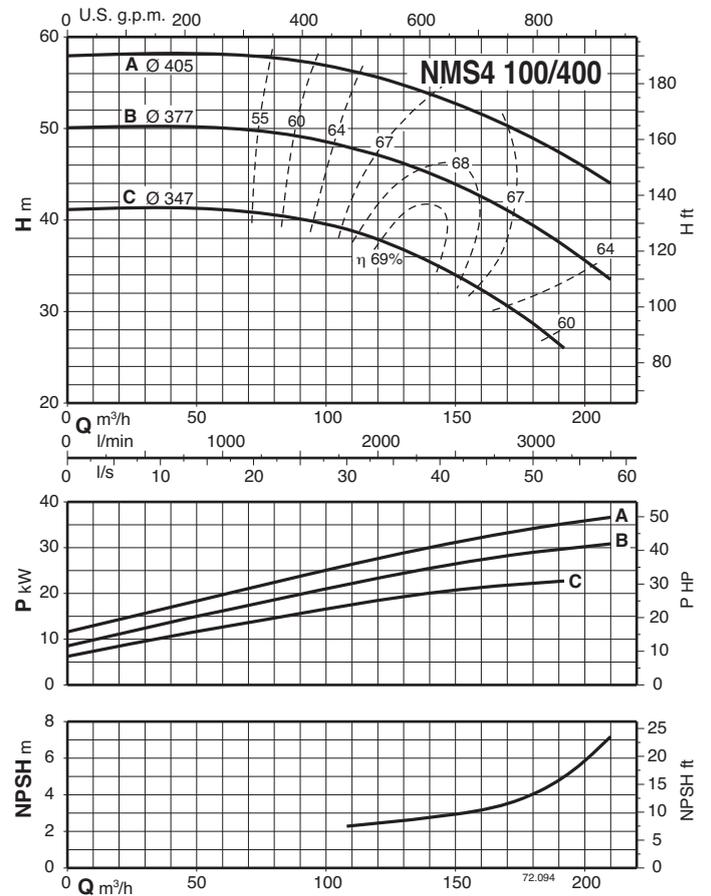
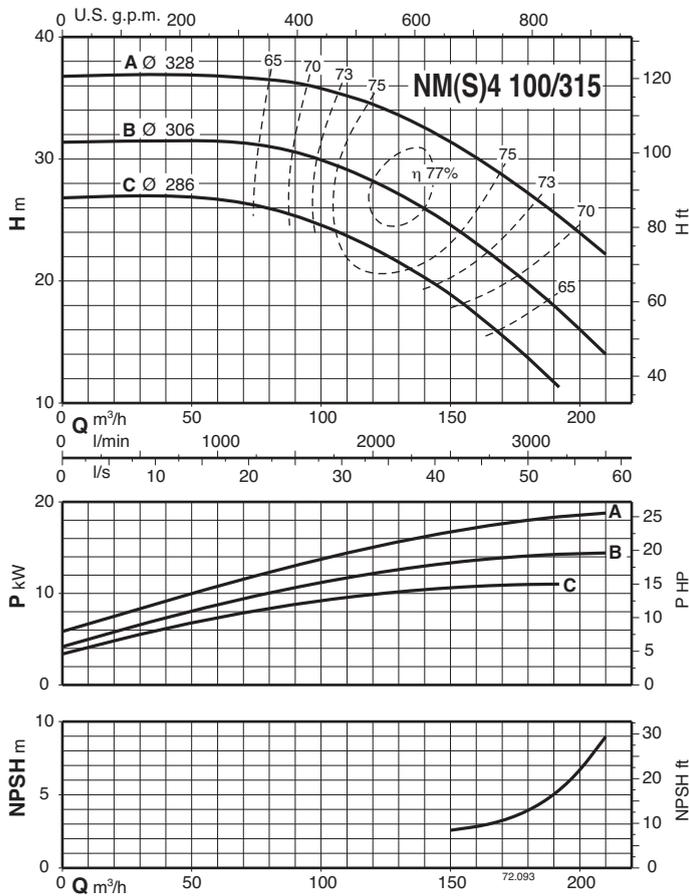
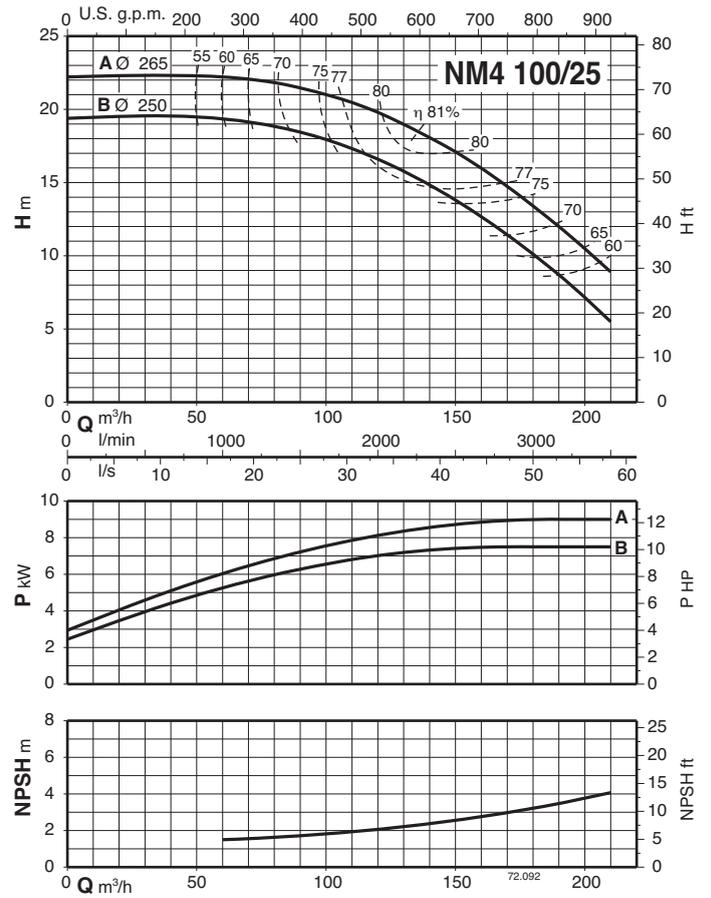
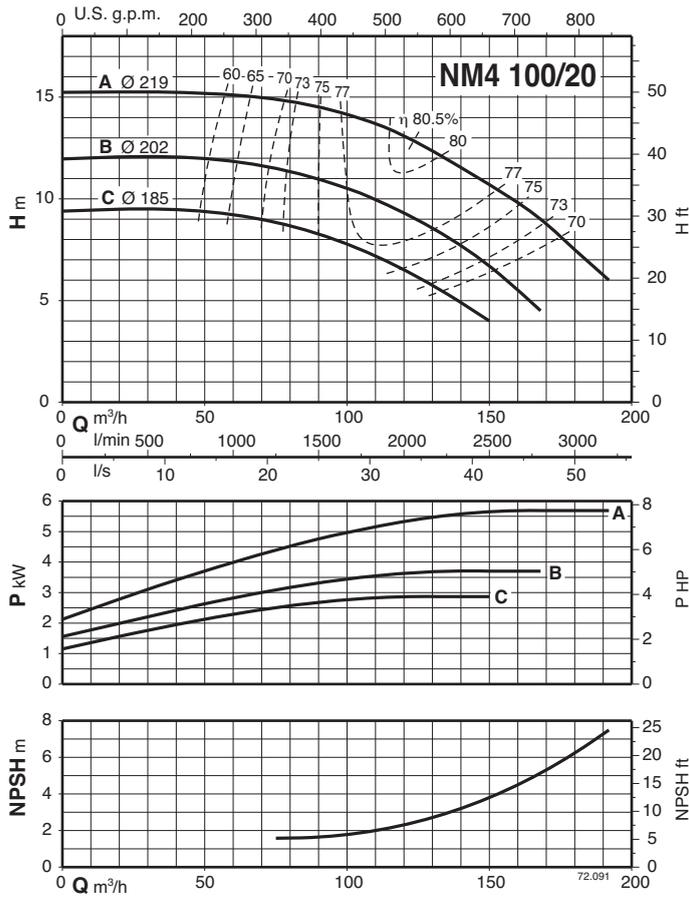
Characteristic curves $n \approx 1450$ rpm



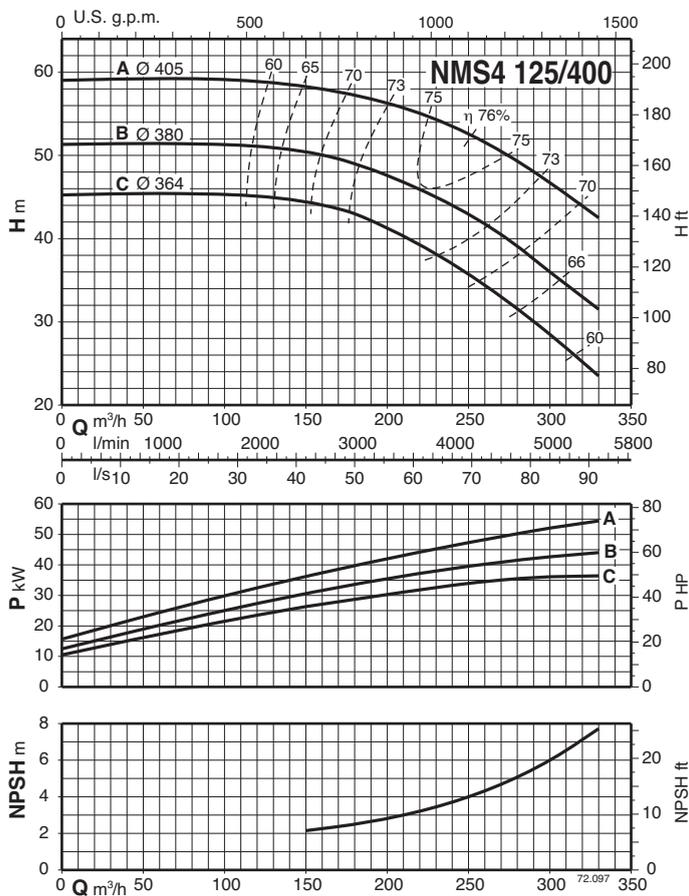
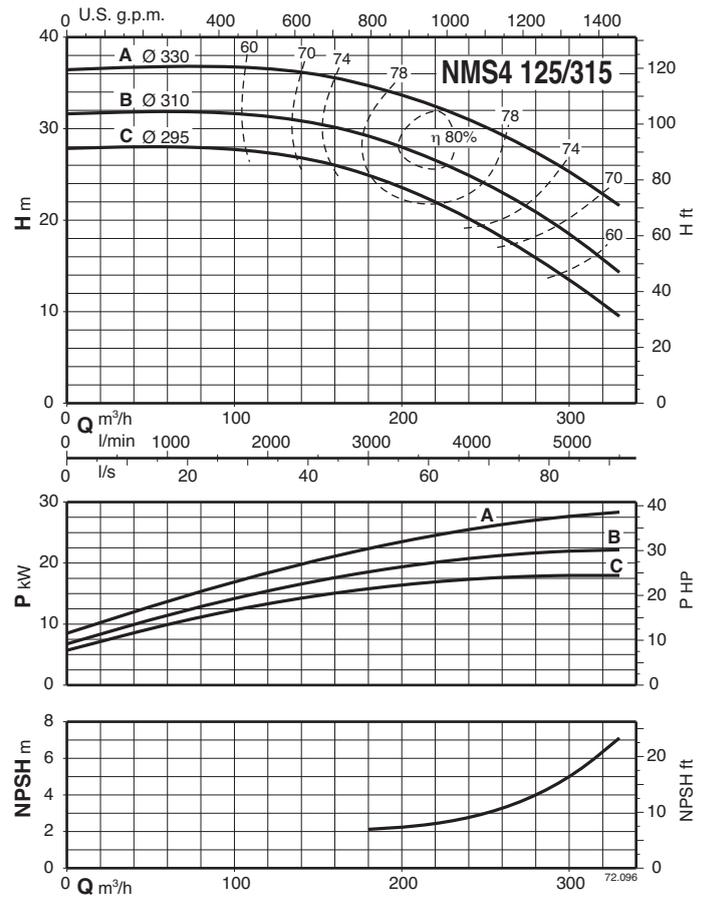
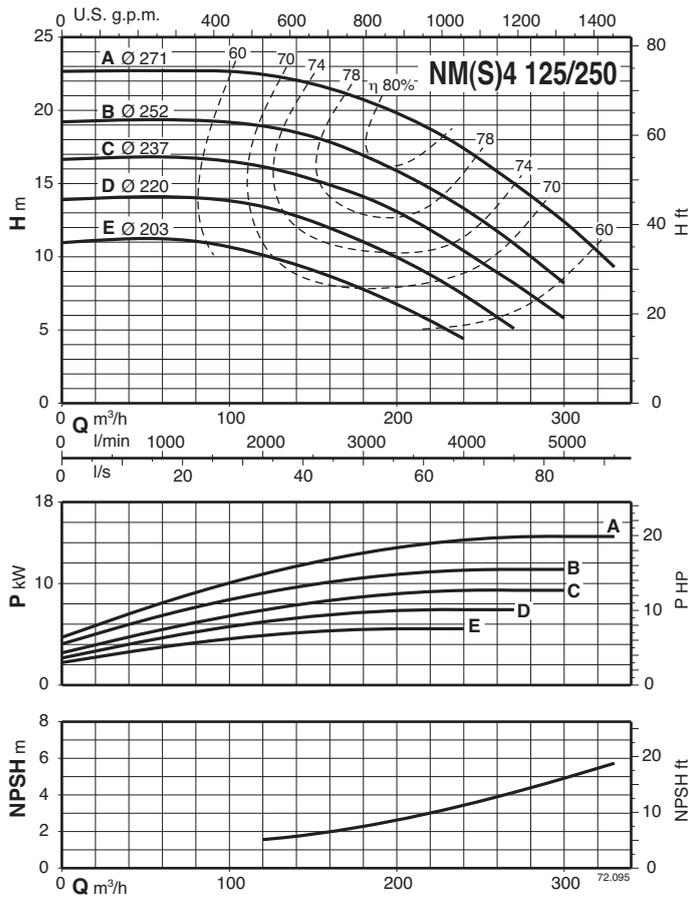
Characteristic curves $n \approx 1450$ rpm



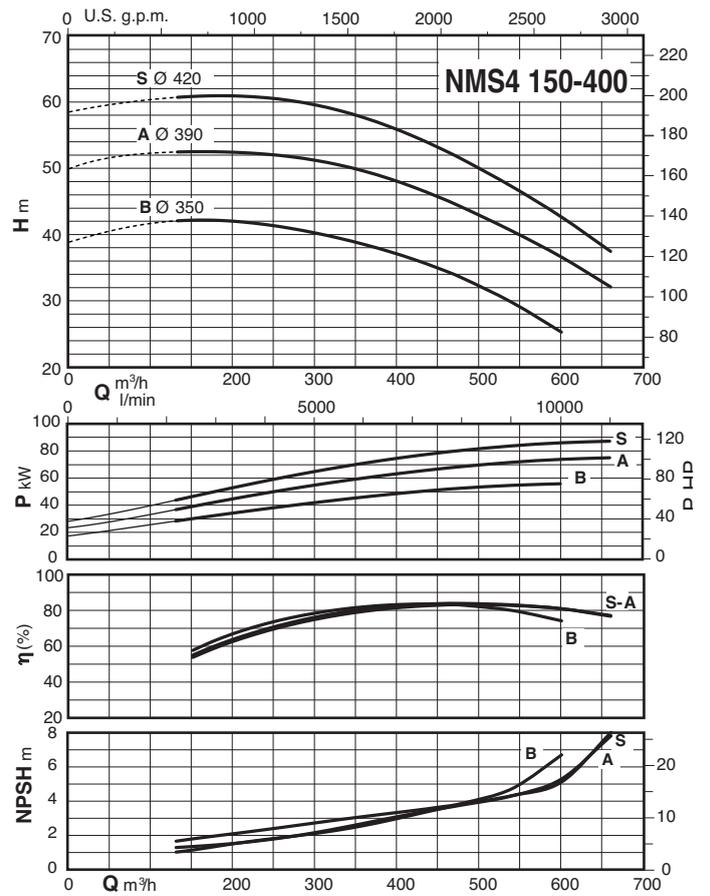
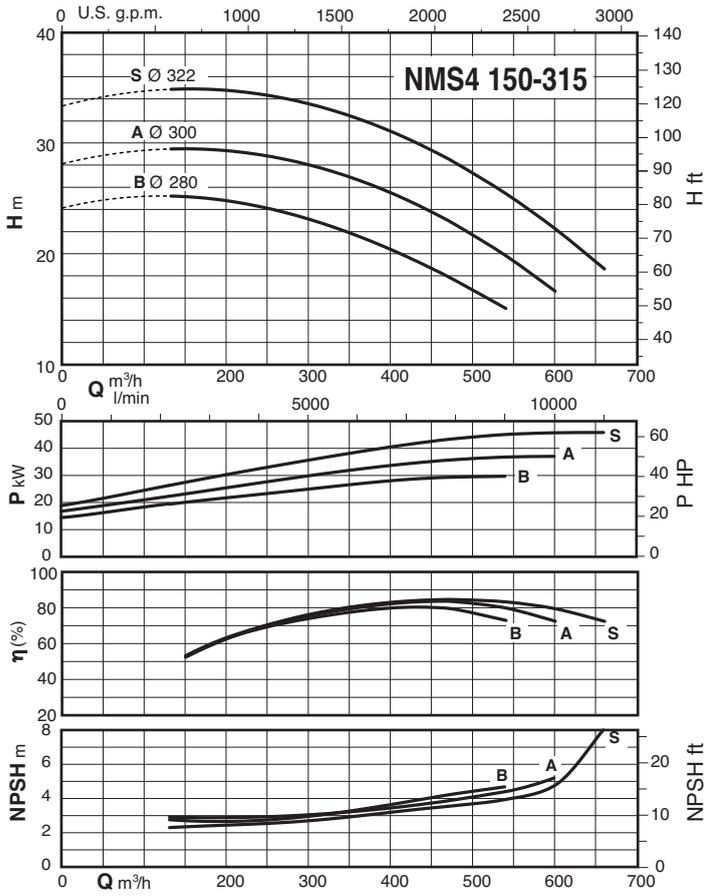
Characteristic curves $n \approx 1450$ rpm



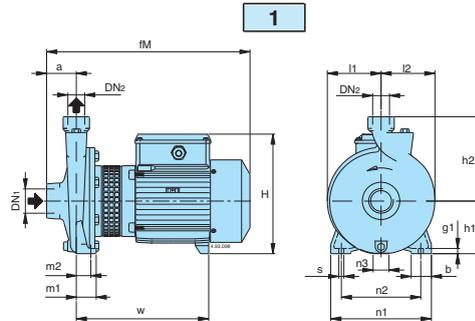
Characteristic curves $n \approx 1450$ rpm



Characteristic curves $n \approx 1450$ rpm



Dimensions and weights

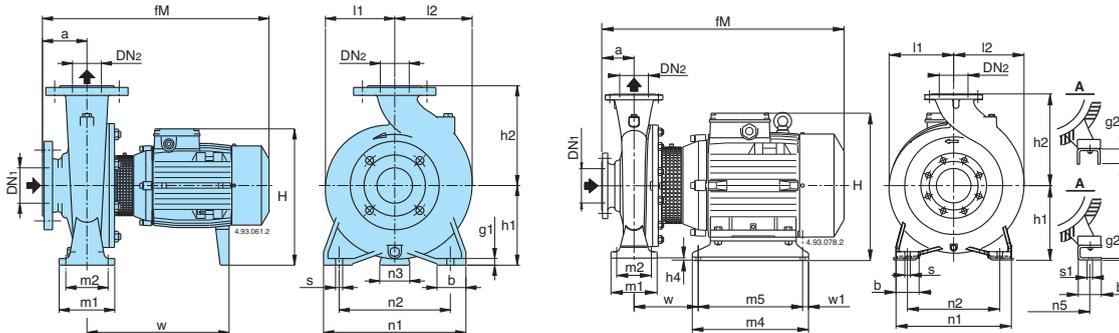


Standard construction

Picture	NM4	DN1	DN2	mm														kg		
				ISO 228		a	fM	h1	h2	H	m1	m2	n1	n2	n3	b	s		l1	l2
1	NM4 25/12A/A	G 1 1/2	G 1	56	313	90	140	199	37,5	27,5	170	130	9	38	9,5	85	88	250	10	12,2
	NM4 25/160A/A-B/A			56	380	100	160	228	37,5	27,5	190	150	30	38	9,5	102	102	250	10	18,6-18,7
	NM4 25/200B/B-C/B			63	385	125	180	253	45	32,5	245	200	49	45	11,5	125	125	250	11	24,5-22,6
	NM4 25/200A/C			63	425	125	180	253	45	32,5	245	200	49	45	11,5	125	125	250	11	29,7

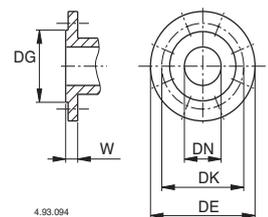
2

3



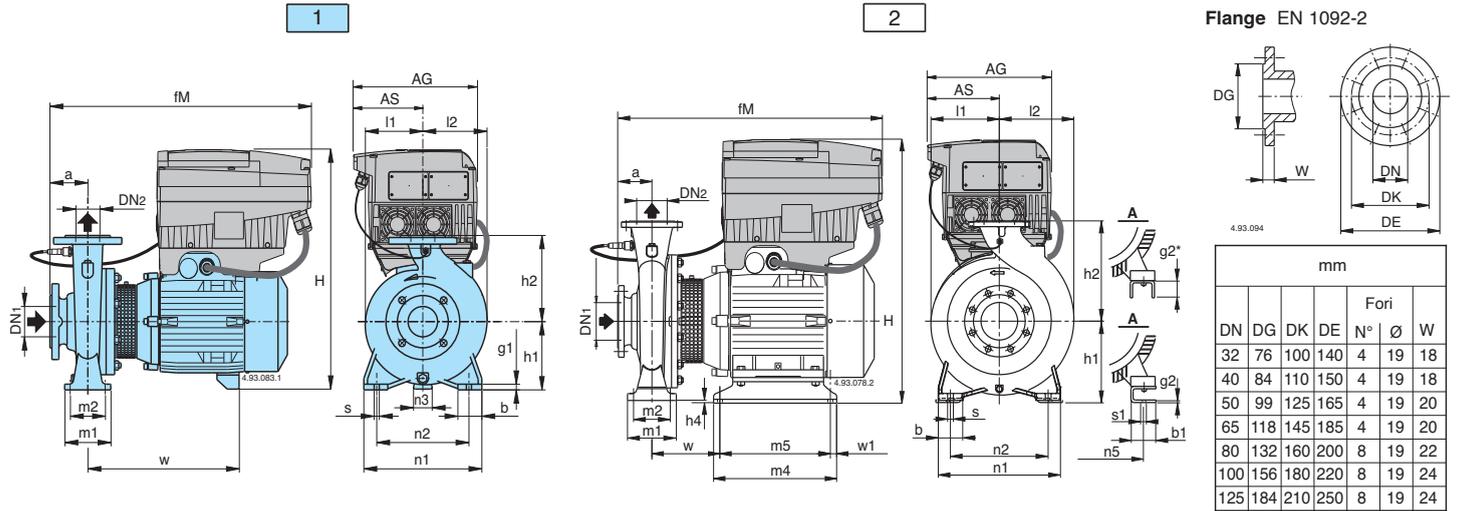
Standard construction

Picture	NM4	DN1	DN2	mm																		kg							
				a	fM	h1	h2	H	h4	m1	m2	n1	n2	n3	n5	w1	b	b1	s	s1	l1		l2	w	m4	m5	g1	g2	
2	NM4 32/16A/A-B/A	50	32	80	410	132	160	260	-	100	70	240	190	47	-	-	50	-	14	-	120	120	255	-	-	12	-	31,6-31,2	
	NM4 32/20B/A	50	32	80	410	160	180	288	-	100	70	240	190	62	-	-	50	-	14	-	140	140	255	-	-	12	-	35,8	
	NM4 32/20A/B	50	32	80	450	160	180	288	-	100	70	240	190	47	-	-	50	-	14	-	121	121	255	-	-	10	-	33,2-31,4	
	NM4 40/16B/B-C/B	65	40	80	410	132	160	268	-	100	70	240	190	47	-	-	50	-	14	-	121	121	255	-	-	10	-	38,2	
	NM4 40/16A/C	65	40	80	450	132	160	268	-	100	70	240	190	47	-	-	50	-	14	-	121	121	255	-	-	10	-	38,2	
	NM4 40/20A/B-B/B	65	40	100	495	160	180	298	-	100	70	265	212	62	-	-	50	-	14	-	142	142	295	-	-	12	-	49,6-49,6	
	NM4 40/25C/C	65	40	100	495	180	225	308	-	125	95	320	250	60	-	-	65	-	14	-	175	175	300	-	-	15	-	66,7	
	NM4 40/25A/B-B/C	65	40	100	528	180	225	340	-	125	95	320	250	60	-	-	65	-	14	-	175	175	279	-	-	15	-	78-77,6	
	NM4 50/16A/C-B/C	65	50	100	495	160	180	298	-	100	70	265	212	62	-	-	50	-	14	-	126	140	295	-	-	12	-	42,4-42,5	
	NM4 50/20B/C-C/C	65	50	100	505	160	200	288	320	-	100	70	265	212	62	60	-	50	-	14	-	140	153	310	-	-	14	-	56,4-53,1
	NM4 50/20A/C	65	50	100	528	160	200	288	320	-	100	70	265	212	62	60	-	50	-	14	-	140	153	279	-	-	14	-	64,7
	NM4 50/25C/C-D/B	65	50	100	528	180	225	340	-	125	95	320	250	60	-	-	65	-	14	-	175	175	279	-	-	15	-	79,2-78,7	
	NM4 50/25A/B-B/B	65	50	100	528	180	225	340	-	125	95	320	250	60	-	-	65	-	14	-	175	175	279	-	-	15	-	85,5-81	
	NM4 65/16A/C-B-C-C/C	80	65	100	495	160	200	288	320	-	125	95	280	212	62	60	-	65	-	14	-	140	161	300	-	-	12	-	52,4-49,3-48,7
	NM4 65/16S/A	80	65	100	528	160	200	288	320	-	125	95	280	212	62	60	-	65	-	14	-	140	161	279	-	-	12	-	62,3
	NM4 65/20A/B-B/C	80	65	100	528	180	225	340	-	125	95	320	250	60	-	-	65	-	14	-	159	178	279	-	-	12	-	69-68,7	
	NM4 65/25B/C	80	65	100	543	200	250	360	385	-	160	120	360	280	60	-	-	80	-	18	-	179	195	294	-	-	15	-	96,6
	NM4 65/25A/B	80	65	100	645	200	250	360	385	-	160	120	360	280	60	-	-	80	-	18	-	179	195	405	-	-	15	-	115,5
NM4 65/31C/B-B/B	80	65	125	670	225	280	410	-	160	120	400	315	75	-	-	80	-	18	-	220	220	415	-	-	20	-	156-164		
NM4 65/31A/B	80	65	125	720	225	280	410	-	160	120	400	315	75	-	-	80	-	18	-	220	220	465	-	-	20	-	168		
NM4 80/16B/C-C/B	100	80	125	520	180	225	308	340	-	125	95	320	250	62	60	-	65	-	14	-	153	181	300	-	-	12	-	59,6-55,6	
NM4 80/16A/C	100	80	125	553	180	225	340	-	125	95	320	250	60	-	-	65	-	14	-	153	181	279	-	-	12	-	69,8		
NM4 80/20A/B-B/B-C/C	100	80	125	563	180	250	340	-	125	95	345	280	60	-	-	65	-	14	-	170	194	289	-	-	15	-	88-81,3-78,8		
NM4 80/25C/A	100	80	125	563	200	280	360	385	-	160	120	400	315	60	-	-	80	-	18	-	191	210	289	-	-	20	-	101	
NM4 80/25B/B-A/B	100	80	125	670	200	280	360	385	-	160	120	400	315	60	-	-	80	-	18	-	191	210	415	-	-	20	-	120-131	
NM4 80/31C/B	100	80	125	720	250	315	435	-	160	120	400	315	90	-	-	80	-	18	-	222	234	465	-	-	17	-	171		
NM4 80/31A/B	100	80	125	787	260	315	466	10	160	120	400	315	-	254	20	80	74	18	14	222	234	147	435	395	-	6	226-212		
NM4 100/20B/A-C/A	125	100	125	563	200	280	360	385	-	160	120	360	280	60	-	-	80	-	18	-	180	212	289	-	-	20	-	91,4-83,5	
NM4 100/20A/C	125	100	125	665	200	280	360	385	-	160	120	360	280	60	-	-	80	-	18	-	180	212	400	-	-	20	-	109	
NM4 100/25B/B	125	100	140	685	225	280	410	-	160	120	400	315	75	-	-	80	-	18	-	205	233	415	-	-	20	-	142		
NM4 100/25A/B	125	100	140	735	225	280	410	-	160	120	400	315	75	-	-	80	-	18	-	205	233	465	-	-	20	-	153		
NM4 100/31B-C	125	100	140	802	260	315	466	10	160	120	400	315	-	254	20	80	74	18	14	230	250	147	435	395	-	6	236-221		
NM4 125/25E/B-D/B	150	125	140	685	250	355	435	-	160	120	400	315	90	-	-	80	-	18	-	235	268	415	-	-	20	-	150-160		
NM4 125/25C/B	150	125	140	735	250	355	435	-	160	120	400	315	90	-	-	80	-	18	-	235	268	465	-	-	20	-	172		
NM4 125/25A-B	150	125	140	802	260	355	466	10	160	120	400	315	-	254	20	80	74	18	14	235	268	147	435	395	-	6	211-223		



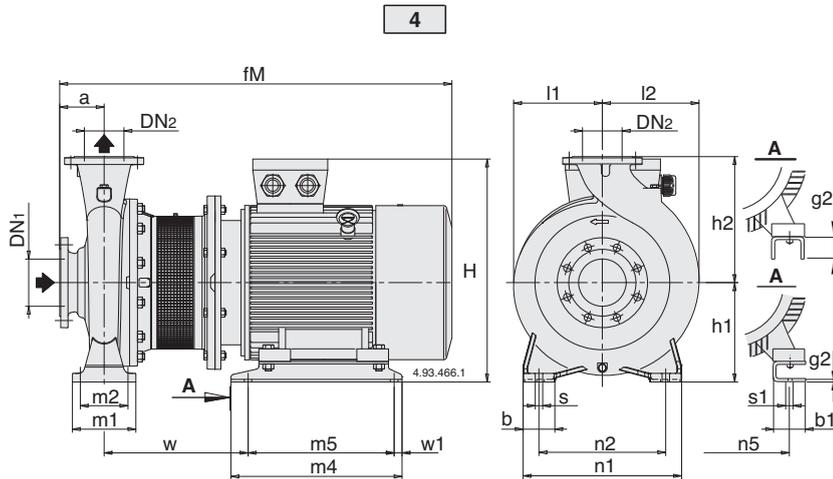
mm						
DN	DG	DK	DE	N°		W
				Ø		
32	76	100	140	4	19	18
40	84	110	150	4	19	19
50	99	125	165	4	19	19
65	118	145	185	4	19	19
80	132	160	200	8	19	19
100	156	180	220	8	19	19
125	184	210	250	8	19	22
150	211	240	285	8	23	22
200	266	295	340	8	23	23

Dimensions and weights

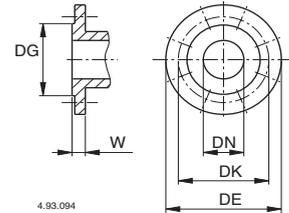


Picture	NM4 EI	mm																							kg						
		DN1	DN2	a	fM	AG	AS	h1	h2	H	h4	m1	m2	n1	n2	n3	n5	w1	b	b1	s	s1	l1	l2		w	m4	m5	g1	g2	
1	NM4 EI 32/16A/A-B/A	50	32	80	440	190	105	132	160	418	-	100	70	240	190	47	-	-	50	-	14	-	120	120	255	-	-	12	-	38,6-38	
	NM4 EI 32/20B/A	50	32	80	440	190	105	160	180	466	-	100	70	240	190	62	-	-	50	-	14	-	140	140	255	-	-	12	-	42,5	
	NM4 EI 32/20A/B				450																									48,4	
	NM4 EI 40/16B/B-C/B	65	40	80	440	190	105	132	160	418	-	100	70	240	190	47	-	-	50	-	14	-	121	121	255	-	-	10	-	40-38	
	NM4 EI 40/16A/C				450																									45,4	
	NM4 EI 40/20A/B-B/B	65	40	100	495	190	105	160	180	547	-	100	70	265	212	62	-	-	50	-	14	-	142	142	295	-	-	12	-	57,4-56,9	
	NM4 EI 40/25C/C	65	40	100	495	190	105	180	225	474	502	-	125	95	320	250	60	-	-	65	-	14	-	175	175	300	-	-	15	-	74
	NM4 EI 40/25A/B-B/C				528	210	118																								85,5-85
	NM4 EI 50/16A/C-B/C	65	50	100	495	190	105	160	180	454	-	100	70	265	212	62	-	-	50	-	14	-	126	140	295	-	-	12	-	46,4-46	
	NM4 EI 50/20B/C-C/C	65	50	100	505	190	105	160	200	454	482	-	100	70	265	212	62	-	-	50	-	14	-	140	153	310	-	-	14	-	59-51
	NM4 EI 50/20A/C				528	210	118																								63,4
	NM4 EI 50/25C/C-D/B	65	50	100	528	210	118	180	225	502	-	125	95	320	250	60	-	-	65	-	14	-	175	175	279	-	-	15	-	74,4-74,4	
	NM4 EI 50/25A/B-B/B																														93,0-85,5
	NM4 EI 65/16B/C-C/C	80	65	100	495	190	105	160	200	454	482	-	125	95	280	212	62	-	-	65	-	14	-	140	161	300	-	-	15	-	54,4-54,4
	NM4 EI 65/16A/C				528	210	118																								60,9
	NM4 EI 65/16S/A				528	210	118																								61,4
	NM4 EI 65/20A/B-B/C	80	65	100	528	210	118	180	225	502	-	125	95	320	250	60	-	-	65	-	14	-	159	179	279	-	-	12	-	81-67,4	
	NM4 EI 65/25B/C	80	65	100	543	210	118	200	250	522	593	-	160	120	360	280	60	-	-	80	-	18	-	179	195	294	-	-	15	-	104,5
	NM4 EI 65/25A/B				645	281	153																								130,8
	NM4 EI 65/31C/B-B/B	80	65	125	670	281	153	225	280	618	-	160	120	400	315	75	-	-	80	-	18	-	220	220	415	-	-	20	-	179-168	
NM4 EI 65/31A/B				720	281	153																								190,8	
NM4 EI 80/16B/C-C/B	100	80	125	520	190	105	180	225	454	545	-	125	95	320	250	62	-	-	65	-	14	-	153	181	300	-	-	12	-	67,4-59,4	
NM4 EI 80/16A/C				553	210	118																								71,9	
NM4 EI 80/20A/B-B/B-C/C	100	80	125	563	210	118	180	250	502	-	125	95	345	280	60	-	-	65	-	14	-	170	194	289	-	-	15	-	99-90-81		
NM4 EI 80/25C/A	100	80	125	563	210	118	200	280	522	593	-	160	120	400	315	60	-	-	80	-	18	-	191	210	289	-	-	20	-	109,5	
NM4 EI 80/25B/B-A/B				670	281	153																								150-139	
NM4 EI 80/31C/B	100	80	125	745	281	153	250	315	613	-	160	120	400	315	90	-	-	80	-	18	-	222	234	465	-	-	17	-	195,8		
2	NM4 EI 80/31B	100	80	125	790	281	153	260	315	671	10	160	120	400	315	-	254	20	80	74	18	14	222	234	147	435	395	-	6	283	
	NM4 EI 80/31A				350	190				751																				304	
1	NM4 EI 100/20B/A-C/A	125	100	125	563	210	118	200	280	522	593	-	160	120	360	280	60	-	-	80	-	18	-	180	212	289	-	-	20	-	107-97,5
	NM4 EI 100/20A/C				665	281	153																							123,8	
2	NM4 EI 100/25B/B	125	100	140	685	281	153	225	280	618	-	160	120	400	315	75	-	-	80	-	18	-	205	233	415	-	-	20	-	166,8	
	NM4 EI 100/25A/B				735	281	153																							157,8	
2	NM4 EI 100/31C	125	100	140	805	281	153	260	315	671	10	160	120	400	315	-	254	20	80	74	18	14	230	250	147	435	395	-	6	296	
	NM4 EI 100/31B				350	190				751																				315	
1	NM4 EI 125/25E/B-D/B	150	125	140	685	281	153	250	355	643	-	160	120	400	315	90	-	-	80	-	18	-	235	268	415	-	-	20	-	164-176	
	NM4 EI 125/25C/B				735	281	153																							187,8	
2	NM4 EI 125/25B	150	125	140	805	281	153	260	355	671	10	160	120	400	315	-	254	20	80	74	18	14	235	268	147	435	395	-	6	378	
	NM4 EI 125/25A				350	190				751																				296	

Dimensions and weights



Flanges EN 1092-2

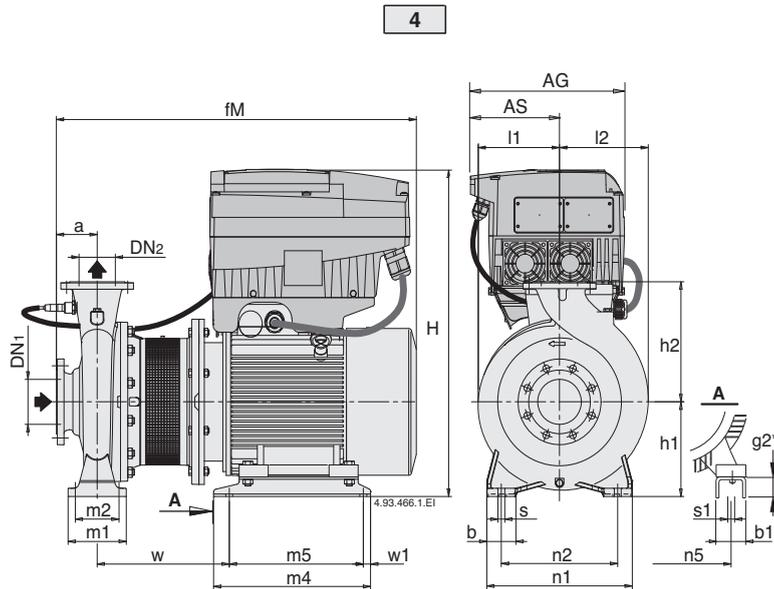


mm						
DN	DG	DK	DE	Holes		W
				N°	Ø	
32	76	100	140	4	19	18
40	84	110	150	4	19	19
50	99	125	165	4	19	19
65	118	145	185	4	19	19
80	132	160	200	8	19	19
100	156	180	220	8	19	19
125	184	210	250	8	19	22
150	211	240	285	8	23	22
200	266	295	340	8	23	23

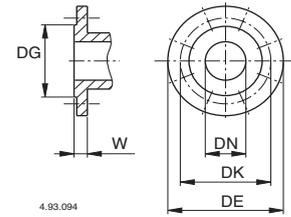
Standard construction

Picture	NMS4	mm																				kg			
		DN1	DN2	a	fM	h1	h2	H	m1	m2	n1	n2	n5	w1	b	b1	s	s1	l1	l2	w		m4	m5	g2
4	NMS4 80/315S	100	80	125	999	250	315	509	160	120	400	315	279	25	80	70	18	15	222	234	312	432	382	6	
	NMS4 80/400C/B	125	80	125	1004	280	355	539	160	120	435	355	279	25	80	70	18	15	268	269	318	520	435	6	339
	NMS4 80/400B/B	125	80	125	1004	280	355	539	160	120	435	355	279	25	80	70	18	15	268	269	318	520	435	6	355
	NMS4 80/400A/B	125	80	125	1051	280	355	576	160	120	435	355	318	25	80	83	18	19	268	269	334	540	455	6	413
	NMS4 80/400S	125	80	125	1118	280	355	618	160	120	435	355	356	55	80	103	18	19	268	269	379	540	460	8	490
	NMS4 100/315A/A	125	100	140	1014	250	315	509	160	120	400	315	279	25	80	70	18	15	230	250	312	432	382	6	308
	NMS4 100/400C/A	125	100	140	1019	280	355	539	200	150	500	400	279	25	100	70	22	15	268	280	318	520	435	6	366
	NMS4 100/400B/A	125	100	140	1066	280	355	576	200	150	500	400	318	25	100	83	22	19	268	280	334	540	455	6	419
	NMS4 100/400A/A	125	100	140	1138	280	355	618	200	150	500	400	356	55	100	103	22	19	268	280	384	540	460	8	506
	NMS4 125/315C/A	150	125	140	1019	280	355	539	200	150	500	400	279	25	100	70	22	15	247	278	318	520	435	6	331
	NMS4 125/315B/A	150	125	140	1019	280	355	539	200	150	500	400	279	25	100	70	22	15	247	278	318	520	435	6	350
	NMS4 125/315A/A	150	125	140	1066	280	355	576	200	150	500	400	318	25	100	83	22	19	247	278	334	540	455	6	409
	NMS4 125/400C/A	150	125	140	1138	315	400	653	200	150	500	400	356	25	100	103	22	19	280	305	409	540	461	8	524
	NMS4 125/400B/A	150	125	140	1198	315	400	653	200	150	500	400	356	25	100	103	22	19	280	305	409	540	461	8	574
	NMS4 125/400A/A	150	125	140	1237	315	400	725	200	150	500	400	406	25	100	100	22	24	280	305	454	540	461	8	665
	NMS4 150/315B/B	200	150	160	1086	280	400	576	200	150	550	450	318	25	100	83	22	19	256	307	334	540	455	6	412
	NMS4 150/315A/B	200	150	160	1158	280	400	618	200	150	550	450	356	55	100	103	22	19	256	307	384	540	460	8	492
	NMS4 150/315S	200	150	160	1218	280	400	618	200	150	550	450	356	55	100	103	22	19	256	307	384	540	460	8	541
NMS4 150/400B/B	200	150	160	1257	315	450	725	200	150	550	450	406	25	100	100	22	24	297	330	454	540	461	8		
NMS4 150/400A/B	200	150	160	1330	315	450	748	200	150	550	450	457	45	100	100	22	24	297	330	482	625	535	35		
NMS4 150/400S	200	150	160	1440	315	450	748	200	150	550	450	457	45	100	100	22	24	297	330	482	625	535	35		

Dimensions and weights



Flanges EN 1092-2

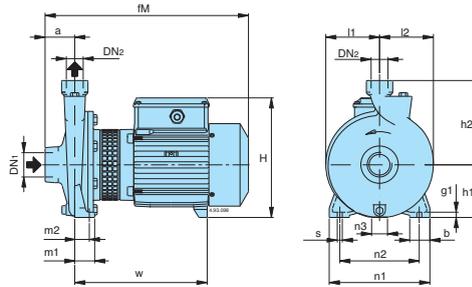


mm						
DN	DG	DK	DE	Holes		W
				N°	Ø	
32	76	100	140	4	19	18
40	84	110	150	4	19	19
50	99	125	165	4	19	19
65	118	145	185	4	19	19
80	132	160	200	8	19	19
100	156	180	220	8	19	19
125	184	210	250	8	19	22
150	211	240	285	8	23	22
200	266	295	340	8	23	23

Picture	NMS4 EI	mm																							kg		
		DN1	DN2	a	fM	AG	AS	h1	h2	H	m1	m2	n1	n2	n5	w1	b	b1	s	s1	l1	l2	w	m4		m5	g2
4	NMS4 EI 80/315S	100	80	125	998	350	190	250	315	785	160	120	400	315	279	25	80	70	18	15	222	234	312	432	382	6	
	NMS4 EI 80/400C/B	125	80	125	1003	350	190	280	355	815	160	120	435	355	279	25	80	70	18	15	268	269	318	520	435	6	374
	NMS4 EI 80/400B/B	125	80	125	1003	350	190	280	355	815	160	120	435	355	279	25	80	70	18	15	268	269	318	520	435	6	390
	NMS4 EI 80/400A/B	125	80	125	1051	350	190	280	355	858	160	120	435	355	318	25	80	83	18	19	268	269	334	540	455	6	448
	NMS4 EI 100/315A/A	125	100	140	1013	350	190	250	315	785	160	120	400	315	279	25	80	70	18	15	230	250	312	432	382	6	343
	NMS4 EI 100/400C/A	125	100	140	1018	350	190	280	355	815	200	150	500	400	279	25	100	70	22	15	268	280	318	520	435	6	401
	NMS4 EI 100/400B/A	125	100	140	1066	350	190	280	355	858	200	150	500	400	318	25	100	83	22	19	268	280	334	540	455	6	454
	NMS4 EI 125/315C/A	150	125	140	1018	350	190	280	355	815	200	150	500	400	279	25	100	70	22	15	247	278	318	520	435	6	366
	NMS4 EI 125/315B/A	150	125	140	1018	350	190	280	355	815	200	150	500	400	279	25	100	70	22	15	247	278	318	520	435	6	385
	NMS4 EI 125/315A/A	150	125	140	1066	350	190	280	355	858	200	150	500	400	318	25	100	83	22	19	247	278	334	540	455	6	444
NMS4 EI 150/315B/B	200	150	160	1086	350	190	280	400	858	200	150	550	450	318	25	100	83	22	19	256	307	334	540	455	6	447	

Dimensions and weights

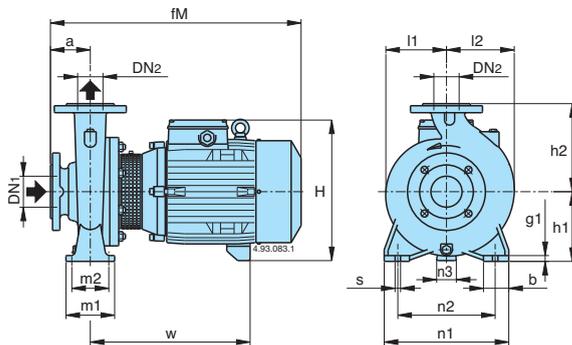
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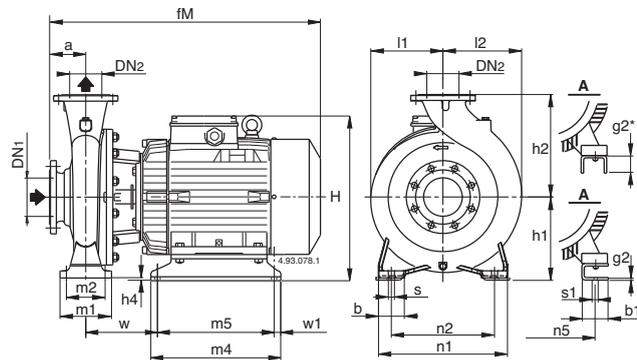
Bronze construction B-NM4

Picture	B-NM4	DN1	DN2	mm																kg
				ISO 228		a	fM	h1	h2	H	m1	m2	n1	n2	n3	b	s	l1	l2	
1	B-NM4 25/160A/A-B/A	G 1 1/2	G 1	56	380	100	160	228	37,5	27,5	190	150	30	38	9,5	102	102	250	10	21,1-21
	B-NM4 25/200B/B-C/B			63	400	125	180	253	45	32,5	245	200	49	45	11,5	125	125	250	11	28,4-26,5
	B-NM4 25/200A/C			63	445	125	180	253	45	32,5	245	200	49	45	11,5	125	125	303	11	34,2

2



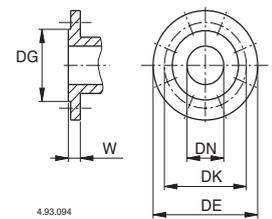
3



Bronze construction B-NM4

Picture	B-NM4	DN1	DN2	a	fM	h1	h2	H	h4	m1	m2	n1	n2	n3	n5	w1	b	b1	s	s1	l1	l2	w	m4	m5	g1	g2	kg	
																													DN1
2	B-NM4 32/16A/A-B/A	50	32	80	410	132	160	260	-	100	70	240	190	47	-	-	50	-	14	-	120	120	255	-	-	12	-	35-34	
	B-NM4 32/20B/A	50	32	80	410	160	180	288	-	100	70	240	190	62	-	-	50	-	14	-	140	140	255	-	-	12	-	43	
	B-NM4 32/20A/A	50	32	80	450	160	180	288	-	100	70	240	190	62	-	-	50	-	14	-	140	140	255	-	-	12	-	45	
	B-NM4 40/16B/A-C/A	65	40	80	410	132	160	260	-	100	70	240	190	47	-	-	50	-	14	-	121	121	255	-	-	10	-	37,4-35,5	
	B-NM4 40/16A/B	65	40	80	450	132	160	260	-	100	70	240	190	47	-	-	50	-	14	-	121	121	255	-	-	10	-	43	
3	B-NM4 40/20A/B-B/B	65	40	100	495	160	180	298	-	100	70	265	212	62	-	-	50	-	14	-	142	142	295	-	-	12	-	55-55	
	B-NM4 40/20A/B-B/B	65	40	100	535	190	225	318	10	125	95	320	250	-	140	15	65	54	14	10	12	175	175	156	205	175	-	6	73
2	B-NM4 4025/C/C	65	40	100	560	190	225	350	10	125	95	320	250	-	190	15	65	60	14	12	175	175	125	280	250	-	6	89-73	
	B-NM4 4025/A/B-B/C	65	40	100	560	190	225	350	10	125	95	320	250	-	190	15	65	60	14	12	175	175	125	280	250	-	6	89-73	
	B-NM4 50/16A/B-B/B	65	50	100	495	160	180	298	-	100	70	265	212	62	-	-	50	-	14	-	126	140	295	-	-	12	-	55-55	
2	B-NM4 50/20B/C-C/C	65	50	100	505	160	200	288	320	-	100	70	265	212	62	60	-	50	-	14	-	140	153	310	279	-	14	-	-
	B-NM4 50/20A/C	65	50	100	528	160	200	288	320	-	100	70	265	212	62	60	-	50	-	14	-	140	153	310	279	-	14	-	-
3	B-NM4 5025/C/C-D/B	65	50	100	560	190	225	350	10	125	95	320	250	-	190	15	65	60	14	12	175	175	125	280	250	-	6	79,5	
	B-NM4 5025/A/B-B/B	65	50	100	560	190	225	350	10	125	95	320	250	-	190	15	65	60	14	12	175	175	125	280	250	-	6	105-92	
2	B-NM4 65/16A/C-B/C-C/C	80	65	100	495	160	200	306	320	-	125	95	280	212	62	60	-	65	-	14	-	140	161	300	279	-	12	-	60-57-66
	B-NM4 65/16S/A	80	65	100	528	180	225	340	-	125	95	320	250	60	-	-	65	-	14	-	159	179	279	-	-	12	-	69,8	
	B-NM4 65/20A/A-B/A	80	65	100	540	200	250	360	385	-	160	120	360	280	60	-	-	80	-	18	-	179	195	345	405	-	15	-	109
	B-NM4 65/25B/B	80	65	100	645	200	250	360	385	-	160	120	360	280	60	-	-	80	-	18	-	179	195	345	405	-	15	-	128
	B-NM4 65/25A/C	80	65	100	645	200	250	360	385	-	160	120	360	280	60	-	-	80	-	18	-	179	195	345	405	-	15	-	128
	B-NM4 65/31C/B-B/B	80	65	125	670	225	280	410	-	160	120	400	315	75	-	-	80	-	18	-	220	220	415	465	-	-	20	-	170-..
	B-NM4 65/31A/B	80	65	125	720	225	280	410	-	160	120	400	315	75	-	-	80	-	18	-	220	220	415	465	-	-	20	-	-
	B-NM4 80/20A/A-B/A-C/A	100	80	125	560	180	250	340	-	125	95	345	280	60	-	-	65	-	14	-	170	194	340	-	-	15	-	-	97,2-89,7-..
	B-NM4 80/25C/A	100	80	125	565	160	120	400	315	60	-	-	80	-	-	80	-	18	-	18	-	191	210	335	-	-	20	-	115
	B-NM4 80/31C	100	80	125	720	250	315	435	-	160	120	400	315	90	-	-	80	-	18	-	222	234	465	-	-	17	-	-	-
B-NM4 100/20B/A-C/A	125	100	125	565	200	280	360	385	-	160	120	360	280	60	-	-	80	-	18	-	180	212	330	400	-	20	-	-	109-103
B-NM4 100/20A/C	125	100	125	665	200	280	360	385	-	160	120	360	280	60	-	-	80	-	18	-	180	212	330	400	-	20	-	-	129

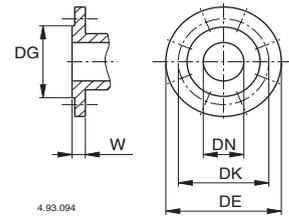
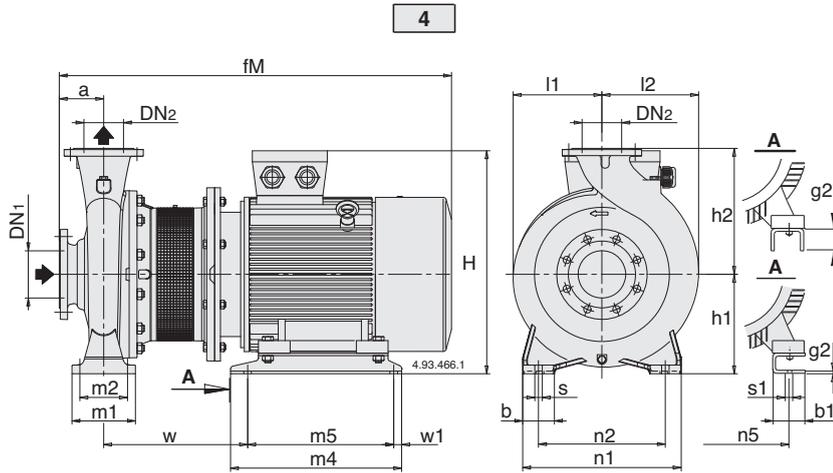
Flanges EN 1092-2



mm						
DN	DG	DK	DE	Holes		W
				N°	Ø	
32	76	100	140	4	19	18
40	84	110	150	4	19	19
50	99	125	165	4	19	19
65	118	145	185	4	19	19
80	132	160	200	8	19	19
100	156	180	220	8	19	19
125	184	210	250	8	19	22
150	211	240	285	8	23	22
200	266	295	340	8	23	23

Dimensions and weights

Flanges EN 1092-2



mm						
DN	DG	DK	DE	Holes		W
				N°	Ø	
32	76	100	140	4	19	18
40	84	110	150	4	19	19
50	99	125	165	4	19	19
65	118	145	185	4	19	19
80	132	160	200	8	19	19
100	156	180	220	8	19	19
125	184	210	250	8	19	22
150	211	240	285	8	23	22
200	266	295	340	8	23	23

Bronze construction **B-NM4**

Picture	B-NMS4	mm																				kg			
		DN1	DN2	a	fM	h1	h2	H	m1	m2	n1	n2	n5	w1	b	b1	s	s1	l1	l2	w		m4	m5	g2
4	BNMS4 80/250A/A-B/A	100	80	125	807	200	280	387	160	120	400	315	216	20	80	69	18	12	191	210	322	298	258	6	181-171
	BNMS4 80/315B/B	100	80	125	948	250	315	457	160	120	400	315	254	20	80	60	18	15	222	234	271	435	395	6	
	BNMS4 80/315A/B	100	80	125	948	250	315	457	160	120	400	315	254	20	80	60	18	15	222	234	271	435	395	6	
	BNMS4 80/315S	100	80	125	999	250	315	509	160	120	400	315	279	25	80	70	18	15	222	234	312	432	382	6	
	BNMS4 80/400C/B	125	80	125	1004	280	355	539	160	120	435	355	279	25	80	70	18	15	268	269	318	520	435	6	
	BNMS4 80/400B/B	125	80	125	1004	280	355	539	160	120	435	355	279	25	80	70	18	15	268	269	318	520	435	6	
	BNMS4 80/400A/B	125	80	125	1051	280	355	576	160	120	435	355	318	25	80	83	18	19	268	269	334	540	455	6	
	BNMS4 80/400S	125	80	125	1118	280	355	618	160	120	435	355	356	55	80	103	18	19	268	269	379	540	460	8	
	BNMS4 100/250B/A	125	100	140	822	225	280	412	160	120	400	315	216	20	80	69	18	12	205	233	322	298	258	6	192
	BNMS4 100/250A/A	125	100	140	872	225	280	412	160	120	400	315	216	20	80	69	18	12	205	233	322	298	258	6	206
	BNMS4 100/315C/A	125	100	140	963	250	315	457	160	120	400	315	254	20	80	60	18	15	230	250	271	435	395	6	284
	BNMS4 100/315B/A	125	100	140	963	250	315	457	160	120	400	315	254	20	80	60	18	15	230	250	298	435	395	6	300
	BNMS4 100/315A/A	125	100	140	1014	250	315	509	160	120	400	315	279	25	80	70	18	15	230	250	312	432	382	6	
	BNMS4 100/400C/A	125	100	140	1019	280	355	539	200	150	500	400	279	25	100	70	22	15	268	280	318	520	435	6	
	BNMS4 100/400B/A	125	100	140	1066	280	355	576	200	150	500	400	318	25	100	83	22	19	268	280	334	540	455	6	
	BNMS4 100/400A/A	125	100	140	1138	280	355	618	200	150	500	400	356	55	100	103	22	19	268	280	384	540	460	8	
	BNMS4 125/250D/A-E/A	150	125	140	822	250	355	437	160	120	400	315	216	20	80	69	18	12	235	268	322	298	258	6	
	BNMS4 125/250C/A	150	125	140	872	250	355	437	160	120	400	315	216	20	80	69	18	12	235	268	322	298	258	6	
	BNMS4 125/250B/A	150	125	140	951	250	355	457	160	120	400	315	254	20	80	60	18	15	235	268	259	435	395	6	265
	BNMS4 125/250A/A	150	125	140	951	250	355	457	160	120	400	315	254	20	80	60	18	15	235	268	259	435	395	6	273
	BNMS4 125/315C/A	150	125	140	1019	280	355	539	200	150	500	400	279	25	100	70	22	15	247	278	318	520	435	6	383
	BNMS4 125/315B/A	150	125	140	1019	280	355	539	200	150	500	400	279	25	100	70	22	15	247	278	318	520	435	6	395
	BNMS4 125/315A/A	150	125	140	1066	280	355	576	200	150	500	400	318	25	100	83	22	19	247	278	334	540	455	6	
	BNMS4 125/400C/A	150	125	140	1138	315	400	653	200	150	500	400	356	25	100	103	22	19	280	305	409	540	461	8	
	BNMS4 125/400B/A	150	125	140	1198	315	400	653	200	150	500	400	356	25	100	103	22	19	280	305	409	540	461	8	
	BNMS4 125/400A/A	150	125	140	1237	315	400	725	200	150	500	400	406	25	100	100	22	24	280	305	454	540	461	8	
	BNMS4 150/315B/B	200	150	160	1086	280	400	576	200	150	550	450	318	25	100	83	22	19	256	307	334	540	455	6	
	BNMS4 150/315A/B	200	150	160	1158	280	400	618	200	150	550	450	356	55	100	103	22	19	256	307	385	540	460	8	
	BNMS4 150/315S	200	150	160	1218	280	400	618	200	150	550	450	356	55	100	103	22	19	256	307	385	540	460	8	
	BNMS4 150/400B/B	200	150	160	1257	315	450	725	200	150	550	450	406	25	100	100	22	24	297	330	454	540	461	8	
	BNMS4 150/400A/B	200	150	160	1330	315	450	748	200	150	550	450	457	45	100	100	22	24	297	330	482	625	535	35	
	BNMS4 150/400S	200	150	160	1440	315	450	748	200	150	550	450	457	45	100	100	22	24	297	330	482	625	535	35	

Features

Cutting edge hydraulics

The geometry of the impeller and the pump casing are optimized to achieve maximum efficiency and the best suction capability.

Flexible

The option to choose between cast iron and bronze materials for the hydraulic parts in contact with the pumped liquid allows NM4 series pumps to be selected for use with different types of liquids.

Compact Design

The compact design allows for easy installation even in confined spaces.

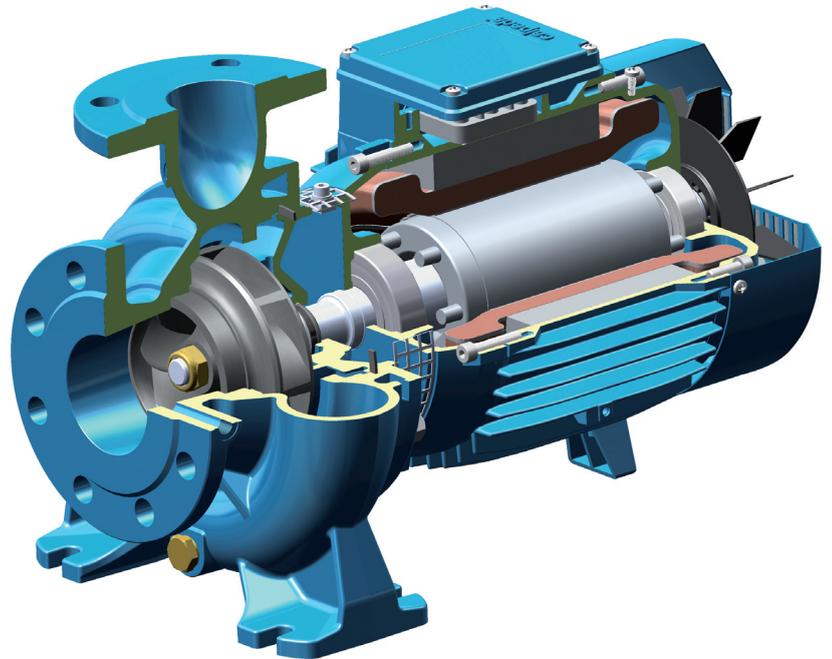
Exclusive design

An innovative, patented guard prevents contact with rotating parts, providing 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.

NM4



Cutting edge hydraulics

The geometry of the impeller and the pump casing are optimized to achieve maximum efficiency and the best suction capability.

Flexibility

The option to choose between cast iron and bronze materials for the hydraulic parts in contact with the pumped liquid allows NMS4 series pumps to be selected for use with different types of liquids.

New lantern bracket construction

The lantern brackets incorporate a thrust bearing on the hydraulic side which guarantees the elimination of additional loads on the motor bearings. The flange is sized to be used with standard motors B35.

Exclusive design

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

Simplified motor maintenance

The presence of the thrust bearing on the hydraulic side makes it easier to remove the motor, facilitating maintenance operations and eliminating the risks of damage to the hydraulic parts.

NMS4

