



Construction

Close-coupled centrifugal pumps; electric motor with extended shaft directly connected to the pump. Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733 with additional sizes for completion.

NM4: version with pump casing and lantern bracket in cast iron.
 B-NM4: version with pump casing and lantern bracket in bronze.
 (the pumps are supplied fully painted).

Connections

Sizes	Connections
NM4 25/125, 25/160, 25/200	Threaded ports ISO 228
from NM4 32/16 to NM4 150/400	Flanges according to PN 10, EN 1092-2

Counter-flanges (on request)

Sizes	Flanges
from NM4 32/16 to NM4 50/25.	Screwed flanges EN 1092-1, PN 16
from NM4 32/16 to NM4 150/400	Flanges for welding EN 1092-1, PN 10

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.
 Continuous duty.

Motor

4-pole induction motor, 50 Hz (n = 1450 rpm).
NM4: 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.
 Constructed in accordance with EN 60034-1.

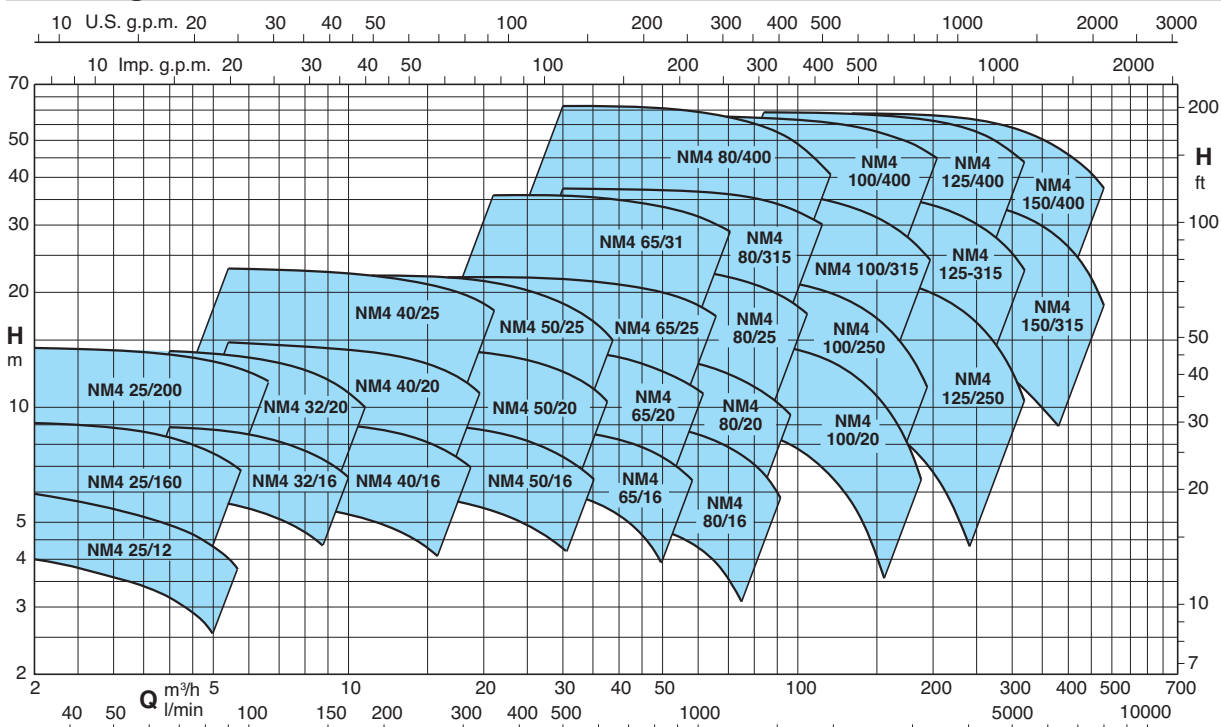
Special features on request

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

Materiali

Components	NM4	B-NM4
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
Shaft	Brass P- Cu Zn 40 Pb 2 UNI 5705 For NM4 25/125 - 25/160 - 25/200 NM4 32/16 - 32/20 - 40/20	
	Cr Ni steel AISI 303 up to 1,1 kW Cr steel AISI 430 from 1,5 kW to 75 kW	Cr Ni Mo steel AISI 316
Mechanical seal	Carbon - Ceramic - NBR	
Counter-flanges	Steel Fe 430B UNI 7070	

Coverage chart n = 1450 rpm



Performance n ≈ 1450 rpm

	NM4	P ₂		Q m ³ /h	H m																			
		kW	HP		48	54	60	66	75	84	96	108	120	132	150	168	180	192	210	240	270	300	330	
				l/min	800	900	1000	1100	1250	1400	1600	1800	2000	2200	2500	2800	3000	3200	3500	4000	4500	5000	5500	
NM4 100/20CE	3	4	9,4	9,3	9,2	9,1	8,9	8,5	8	7,3	6,5	5,6	4*											
NM4 100/20BE	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*										
NM4 100/20AE	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*								
NM4 100/25BE	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*							
NM4 100/25AE	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*							
NM4 100/315CE	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*								
NM4 100/315BE	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*							
NM4 100/315AE	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*							
NM4 100/400CE	22	30	41,3	41,2	41,1	41	40,7	40,4	39,8	39	38	36,5	34*	31*	28,7*	26*								
NM4 100/400BE	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*							
NM4 100/400AE	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*							

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	NM4	P ₂		Q m ³ /h	H m																	
		kW	HP		84	96	108	120	132	150	168	180	192	210	240	270	300	330	360	390	420	450
				l/min	1400	1600	1800	2000	2200	2500	2800	3000	3200	3500	4000	4500	5000	5500	6000	6500	7000	7500
NM4 125/25EE	5,5	7,5	11	10,8	10,5	10,1	9,7	9,1	8,3	7,8	7,2	6,2	4,4*									
NM4 125/25DE	7,5	10	14	13,9	13,7	13,4	13	12,4	11,6	11	10,4	9,4	7,4*	5,1*								
NM4 125/25CE	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*							
NM4 125/250BE	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*							
NM4 125/250AE	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*						
NM4 125/315CE	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*						
NM4 125/315BE	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*						
NM4 125/315AE	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*						
NM4 125/400CE	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*						
NM4 125/400BE	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*						
NM4 125/400AE	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*						
NM4 150/315DE	18,5	25					22,8	22,6	22,3	22	21,7	21,1	20	18,6	17	15,1	13	10,6*	8*			
NM4 150/315CE	22	30					25,6	25,4	25,1	24,9	24,7	24,2	23,3	22	20,4	18,5	16,5	14,1*	11,6*	8,9*		
NM4 150/315BE	30	40					30,6	30,6	30,5	30,3	30,1	29,7	29	27,9	26,5	24,9	23	20,8*	18,3*	15,4*		
NM4 150/315AE	37	50					35,6	35,6	35,5	35,4	35,3	35,2	34,6	33,7	32,5	31	29,2	27,1*	24,7*	21,8*	18,5*	
NM4 150/400CE	45	60					45	44,9	44,7	44,5	44	43,5	42,5	40,5	38,5	36	33,5	30,5*	27*	23,5*	19,5*	
NM4 150/400BE	55	75					50,8	50,7	50,5	50,3	50	49,5	48,5	47	45	43	40,5	38*	35*	32*	28,5*	
NM4 150/400AE	75	100					58,8	58,7	58,6	58,5	58,3	57,9	57	55,5	54	52	49,5	47*	44*	41*	37,5	

NM4 Standard construction.

P₂ Rated motor power output.

* Maximum suction lift 1-2 m.

B-NM4 Bronze construction.

H Total head in m.

Tolerances according to ISO 9906, annex A.

Rated currents

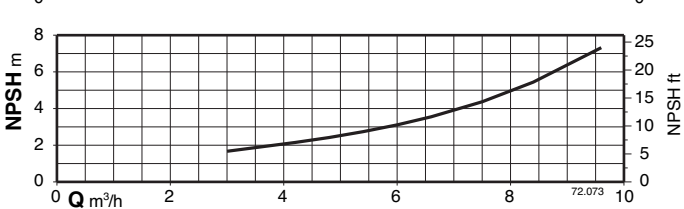
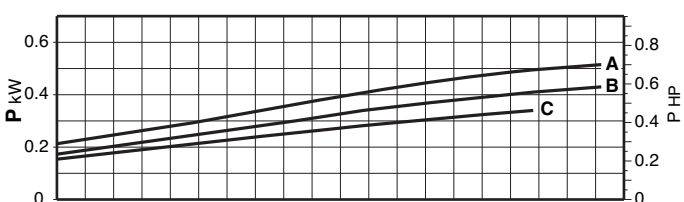
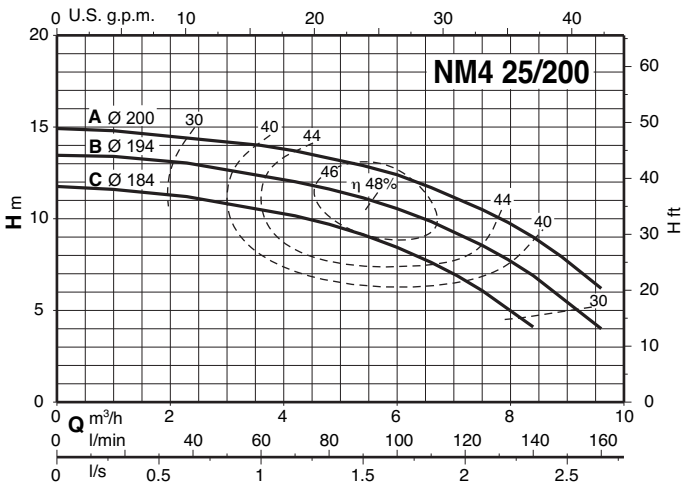
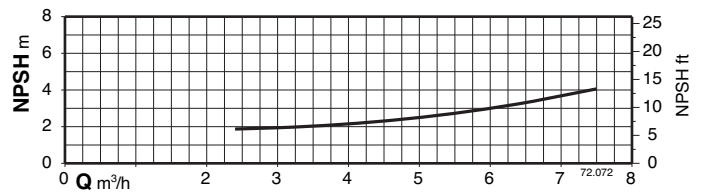
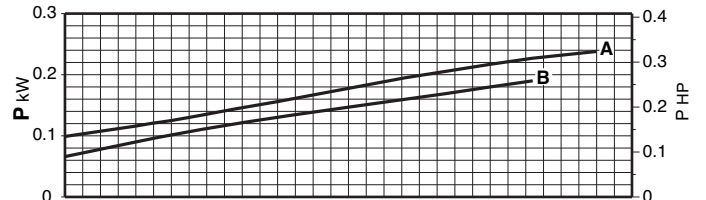
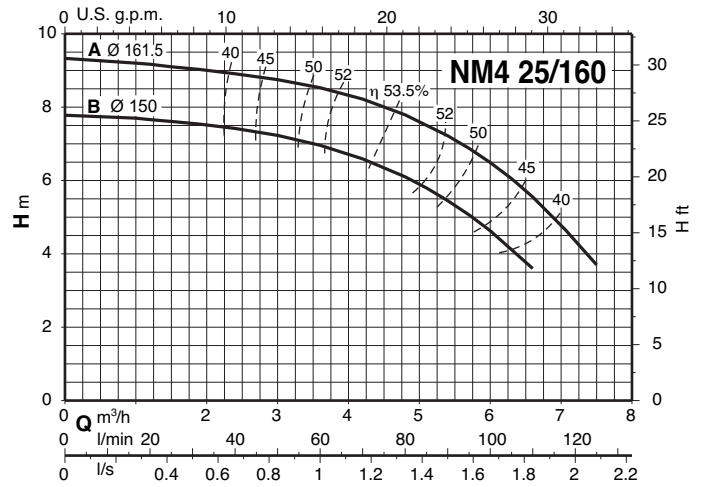
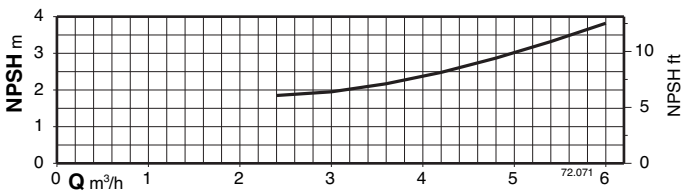
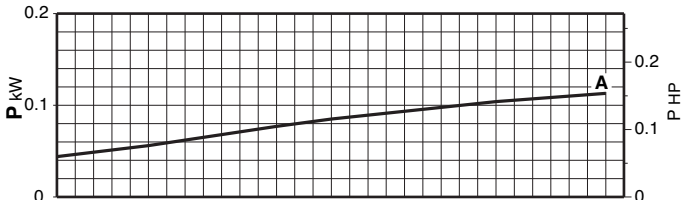
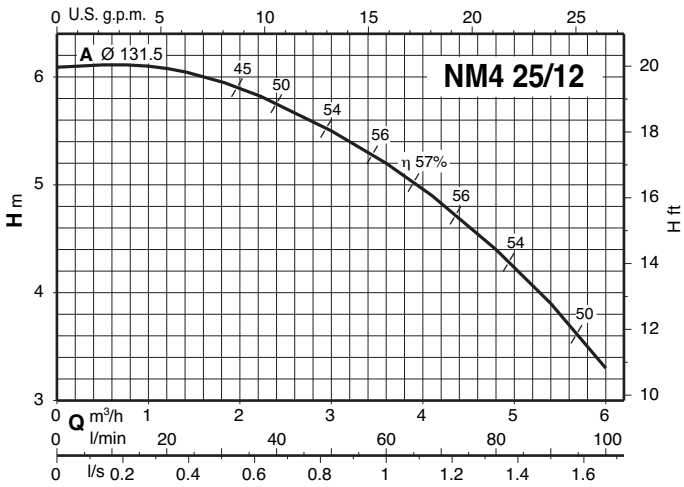
P ₂		230 V Δ / 400 V Y		
kW	HP	I _N A	I _A A	I _A /I _N
0,25	0,34	1,4	0,8	3,7
0,37	0,5	1,65	0,95	4,2
0,55	0,75	2,6	1,5	4,8
0,75	1	3,3	1,9	5,2
1,1	1,5	5	2,9	4,7
1,5	2	6	3,5	5
2,2	3	8,6	5	6,1
3	4	10,9	6,3	9

P ₂		400 V Δ / 690 V Y		
kW	HP	I _N A	I _A A	I _A /I _N
4	5,5	8,5	4,9	9,3
5,5	7,5	12,5	7,2	7,7
7,5	10	16	9,2	9,4
9,2	12,5	19	11	9,3
11	15	22,5	13	6,9
15	20	29	16,7	7
18,5	25	36,5	21	7,3
22	30	43	25	7,5
30	40	56	32	7,5
37	50	69	40	6
45	60	83	48	6,4
55	75	101	58	7,3
75	100	136	78	6

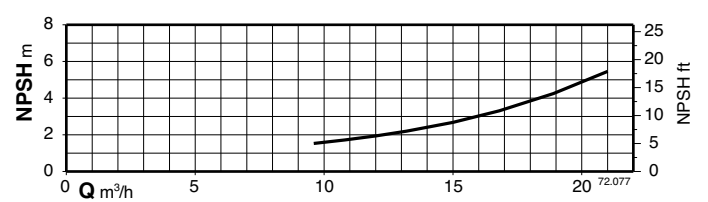
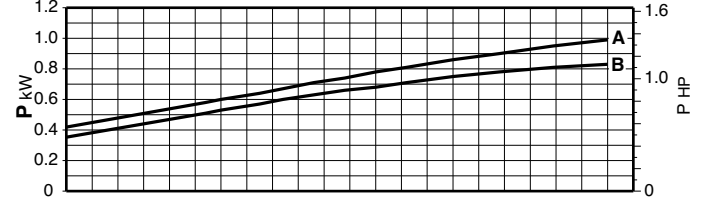
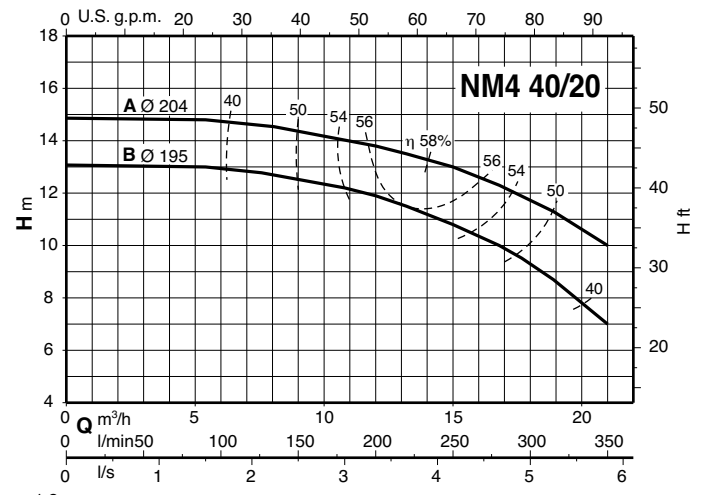
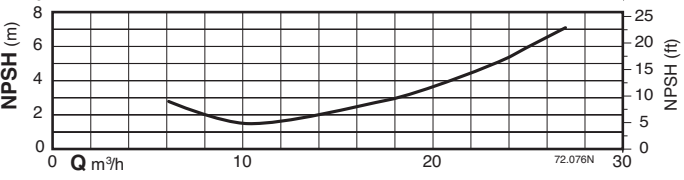
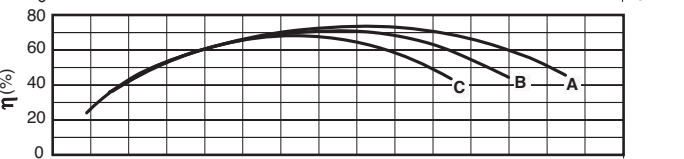
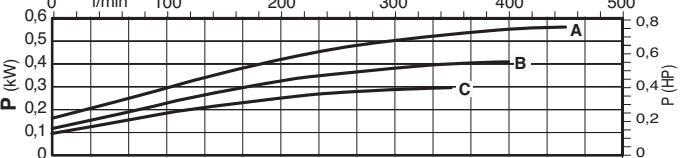
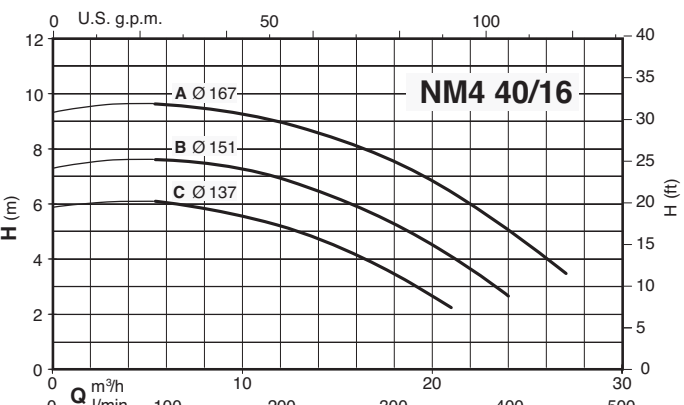
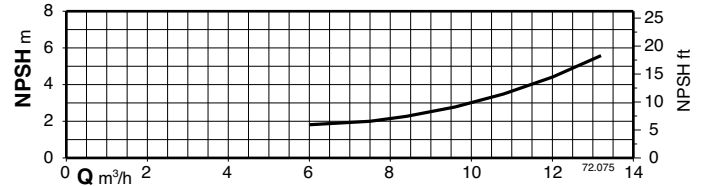
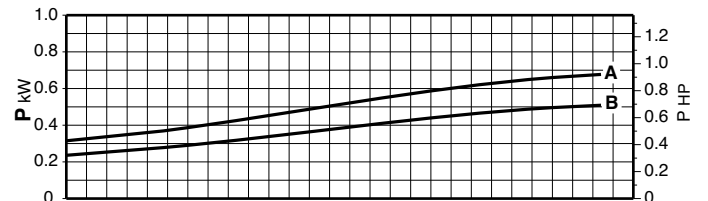
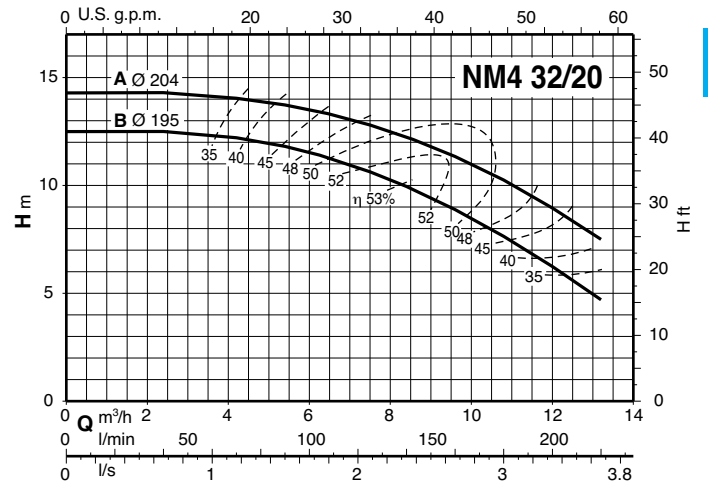
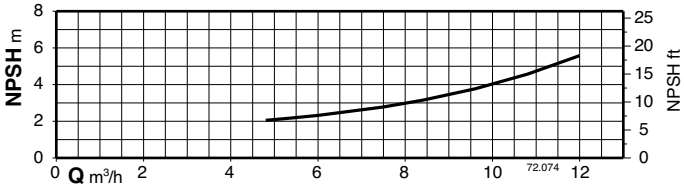
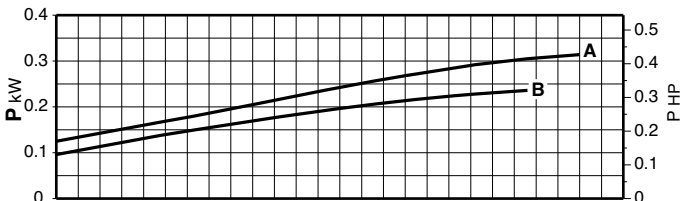
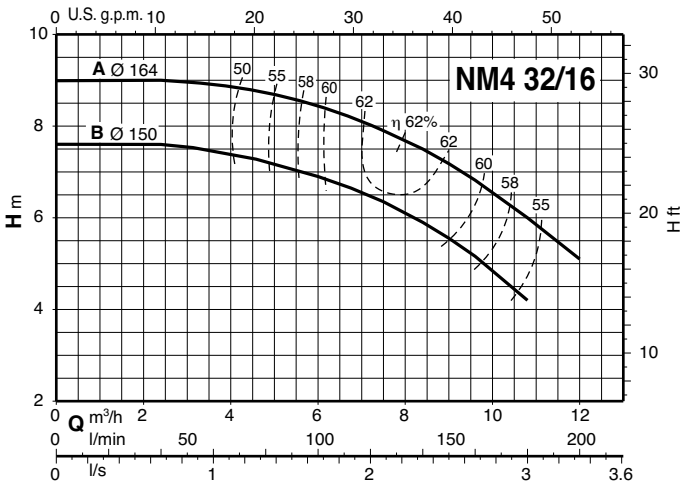
P₂ Rated motor power output.

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

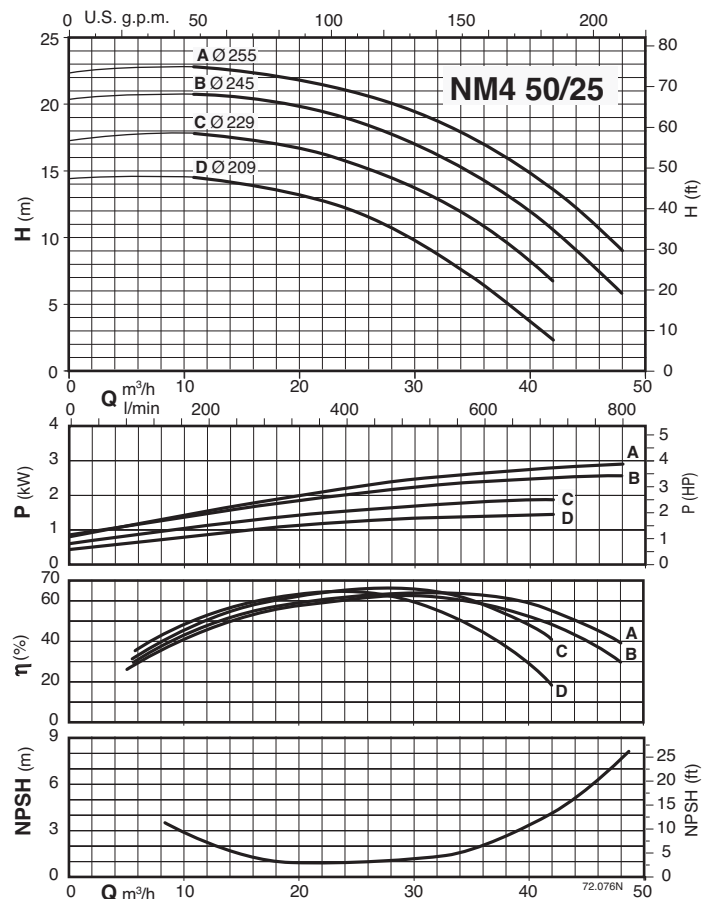
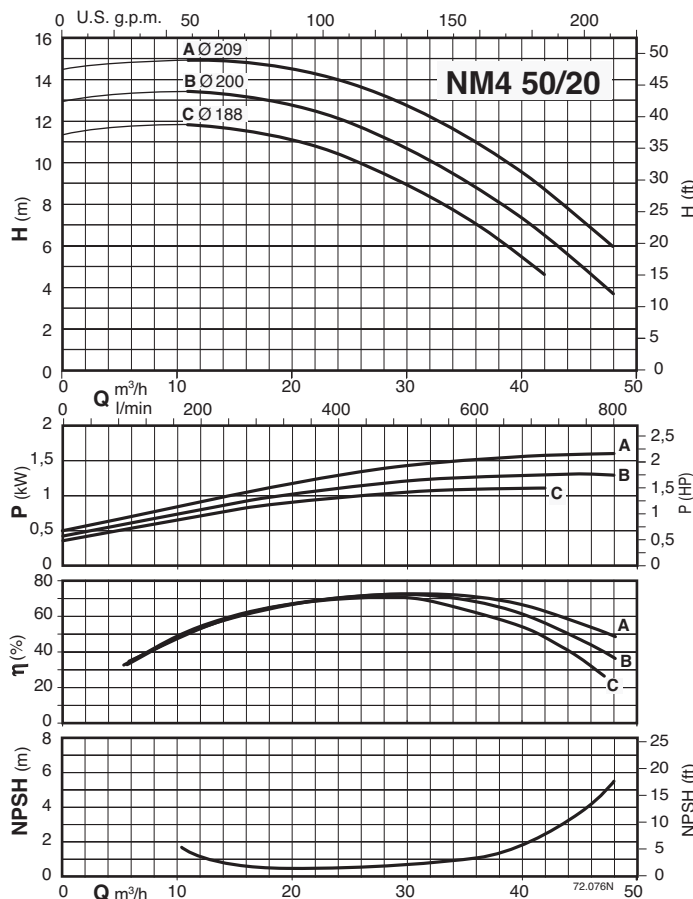
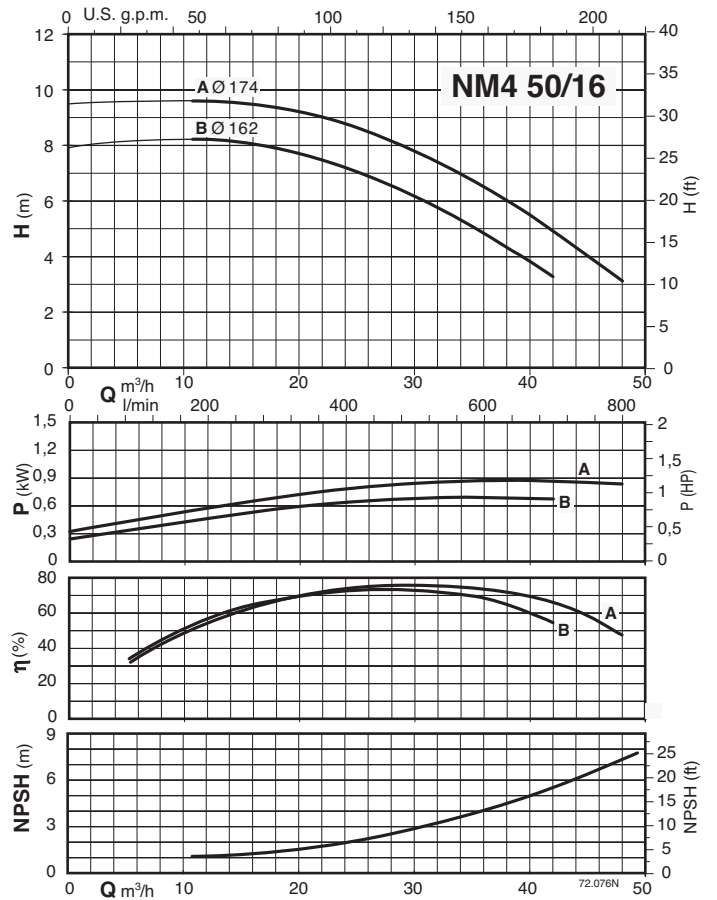
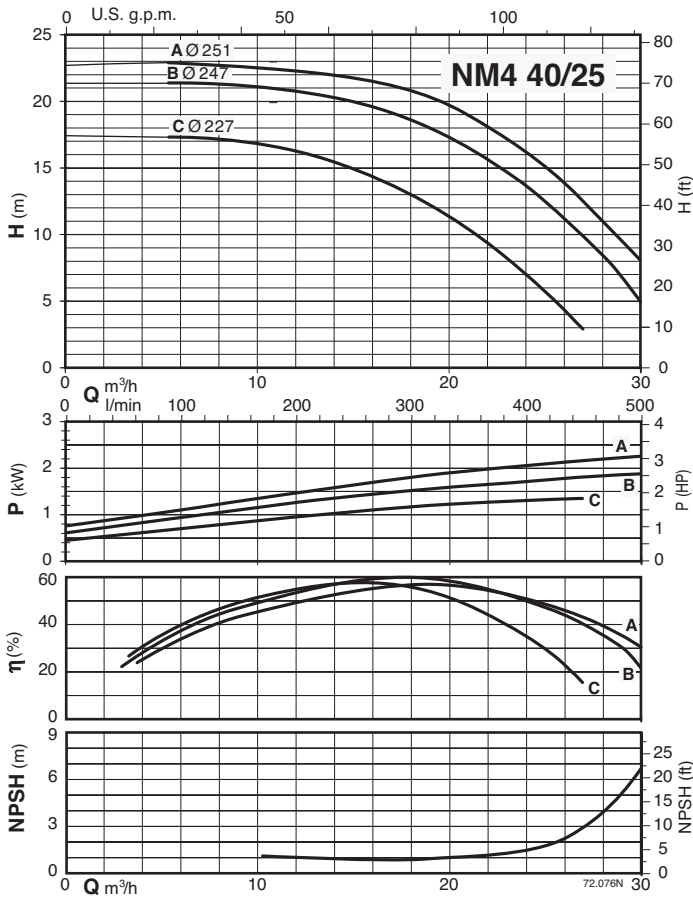
Characteristic curves $n \approx 1450$ rpm



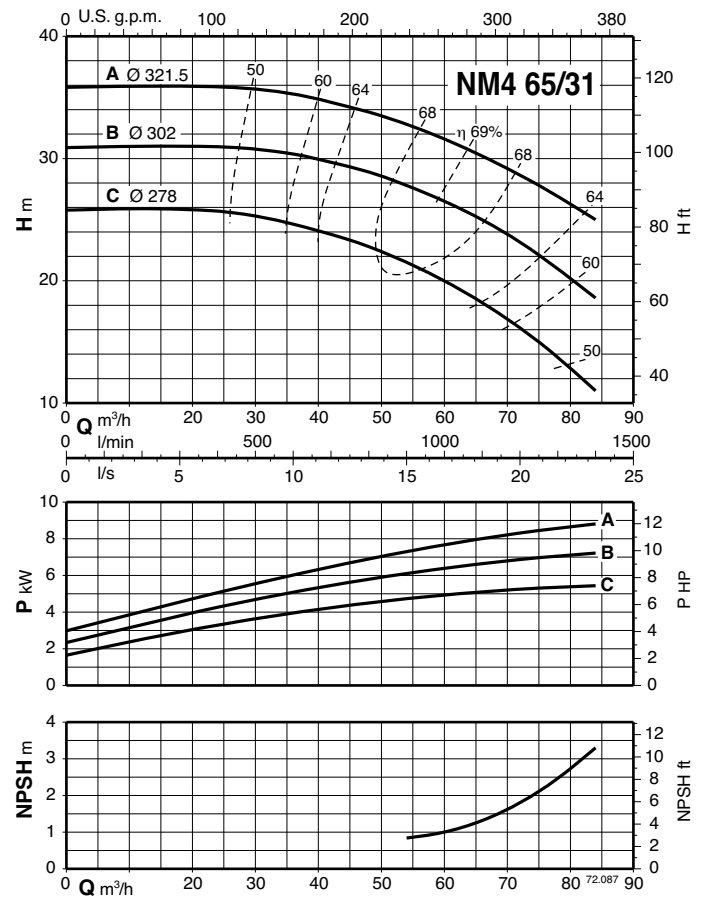
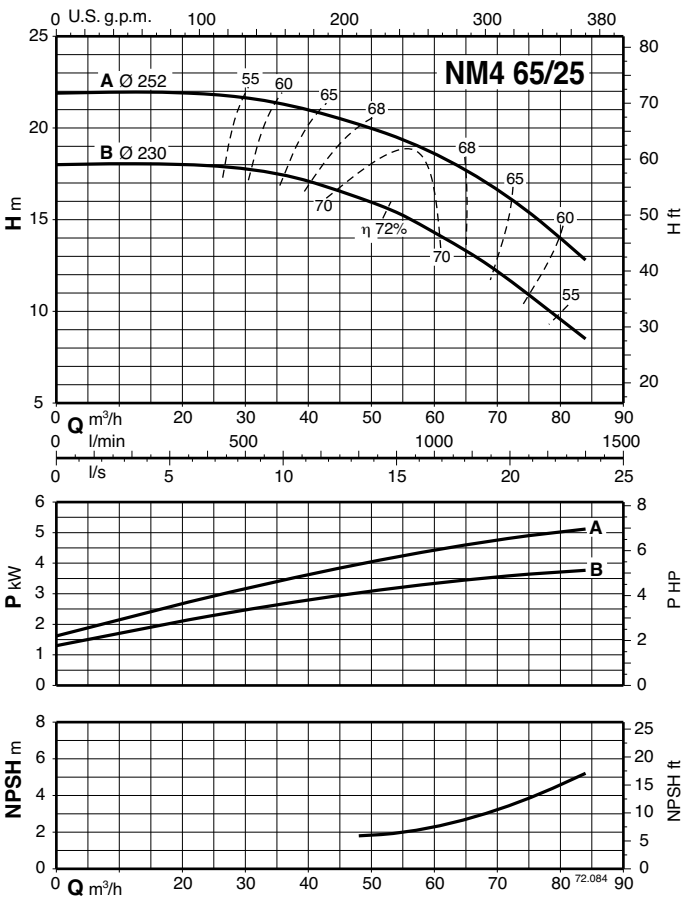
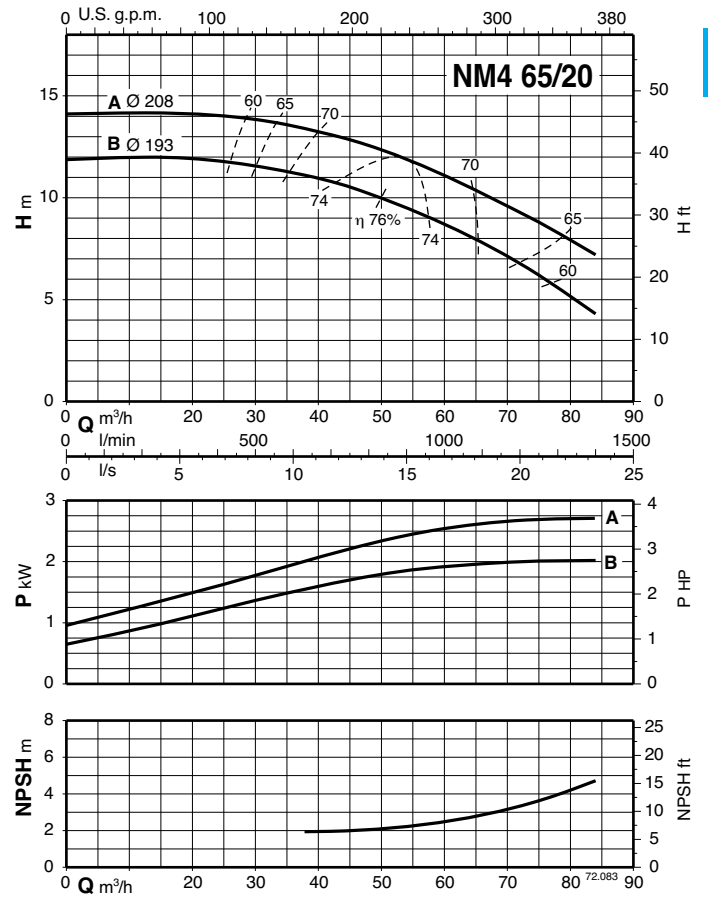
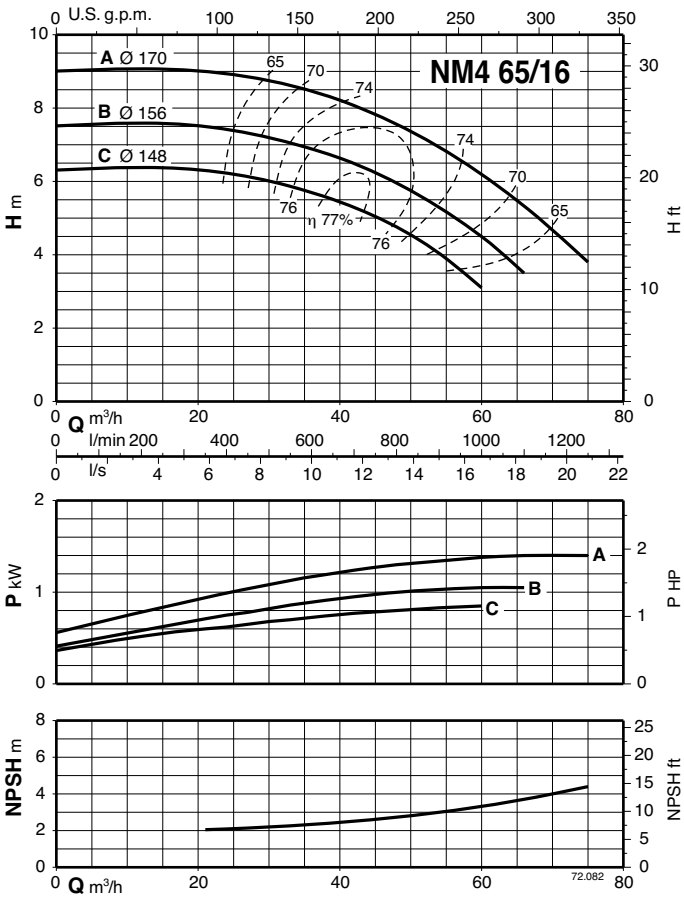
Characteristic curves $n \approx 1450$ rpm



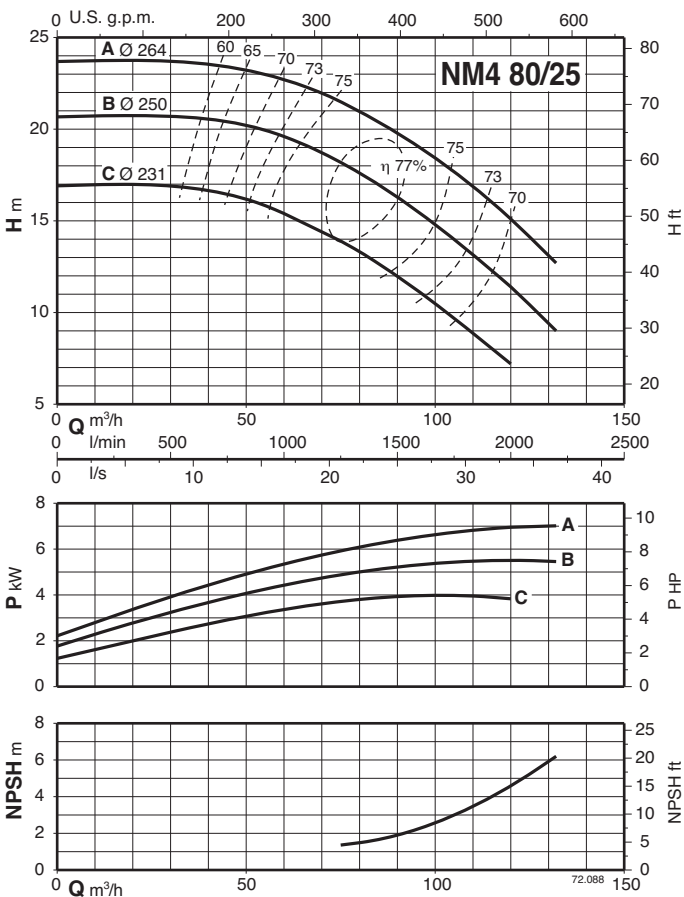
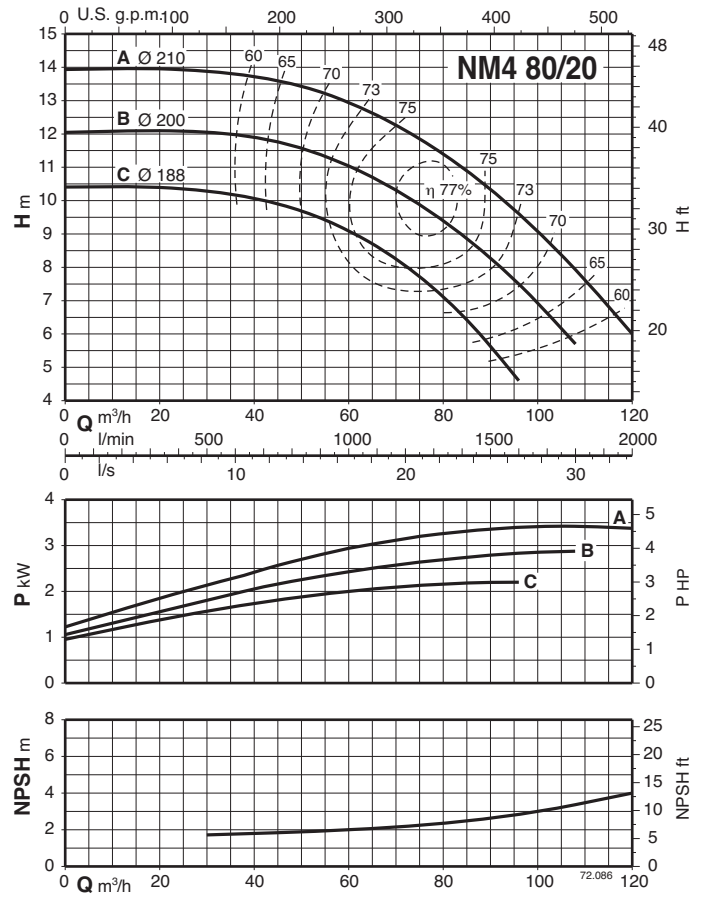
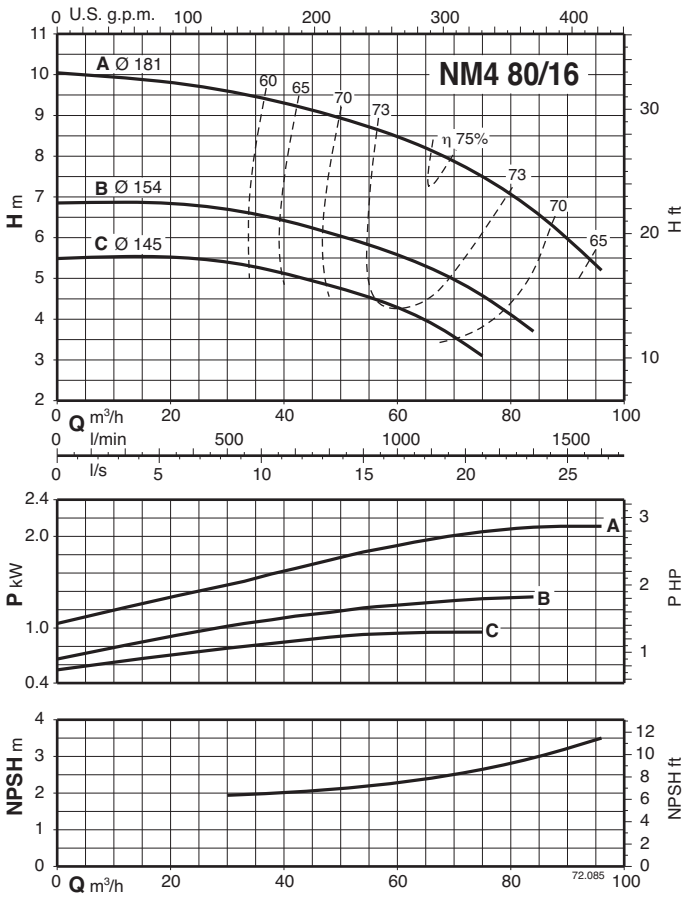
Characteristic curves $n \approx 1450$ rpm



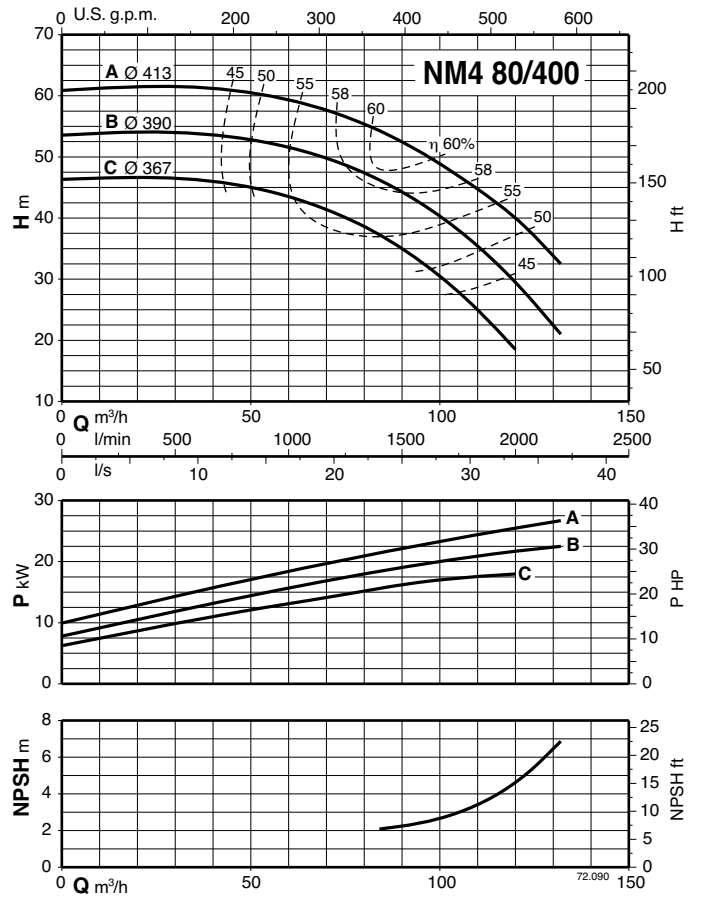
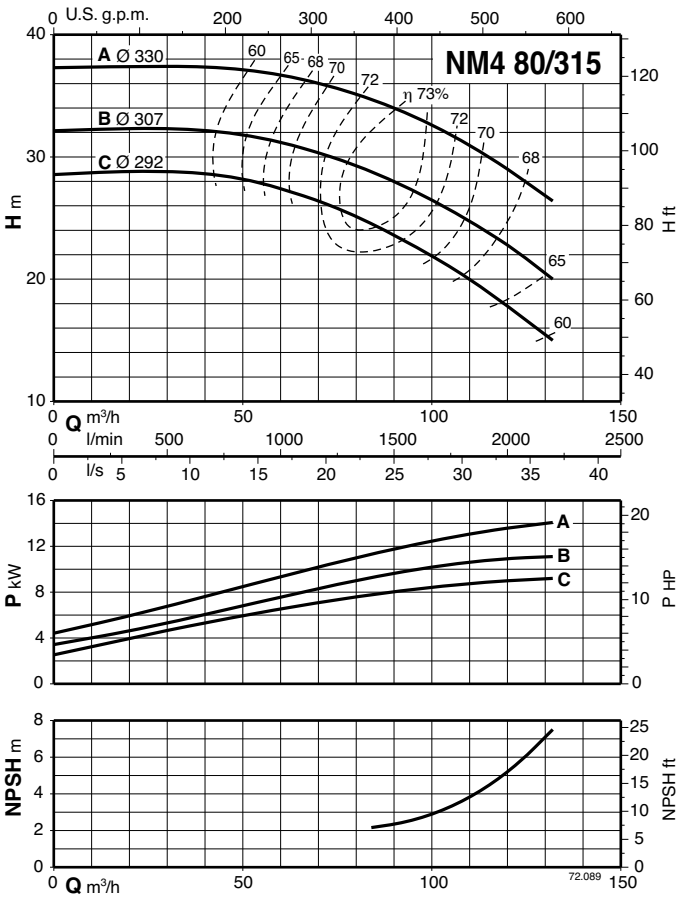
Characteristic curves $n \approx 1450$ rpm



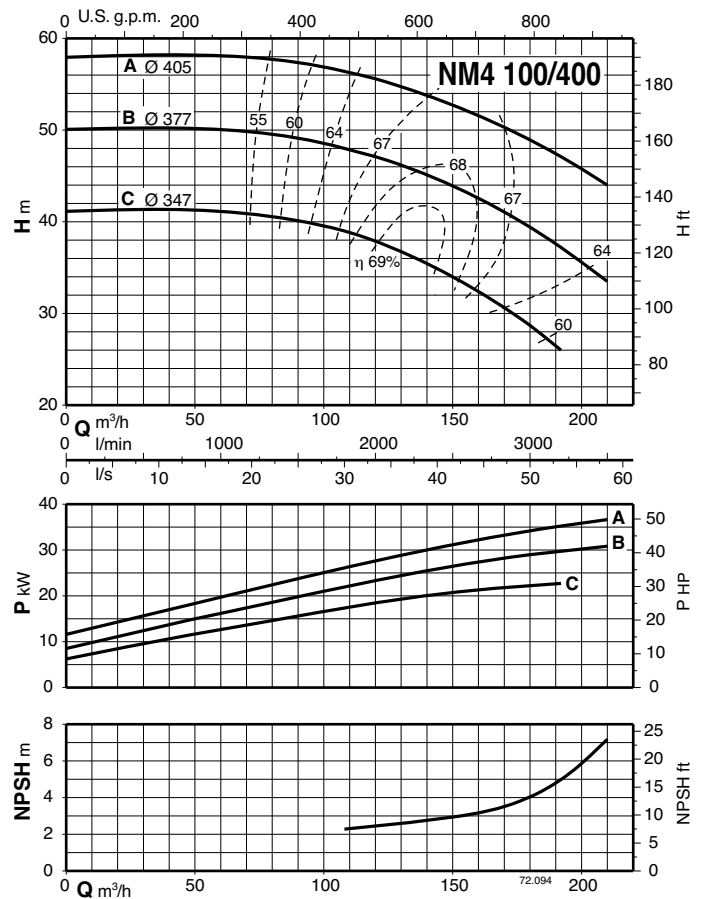
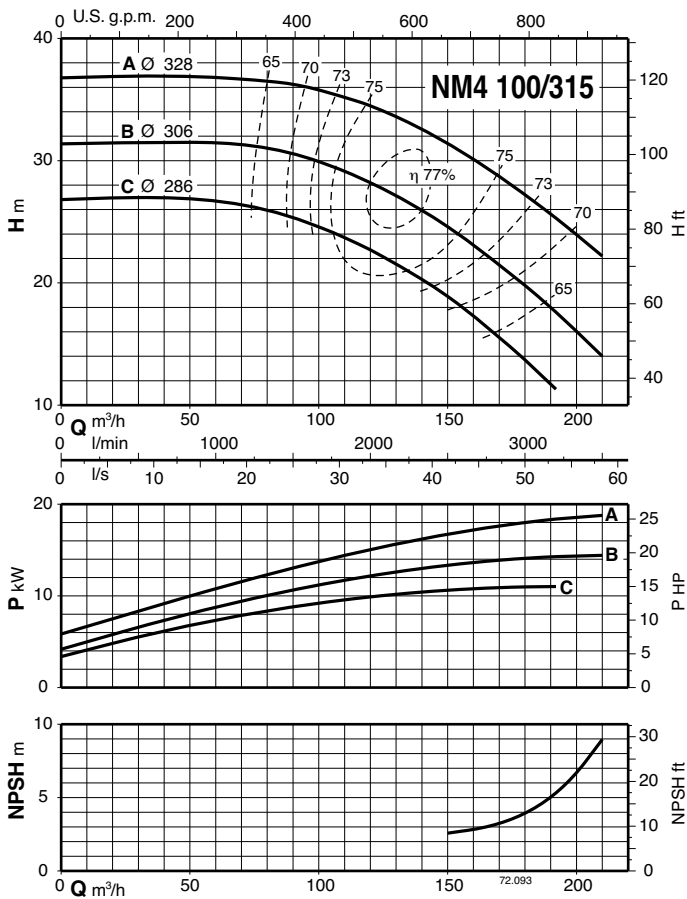
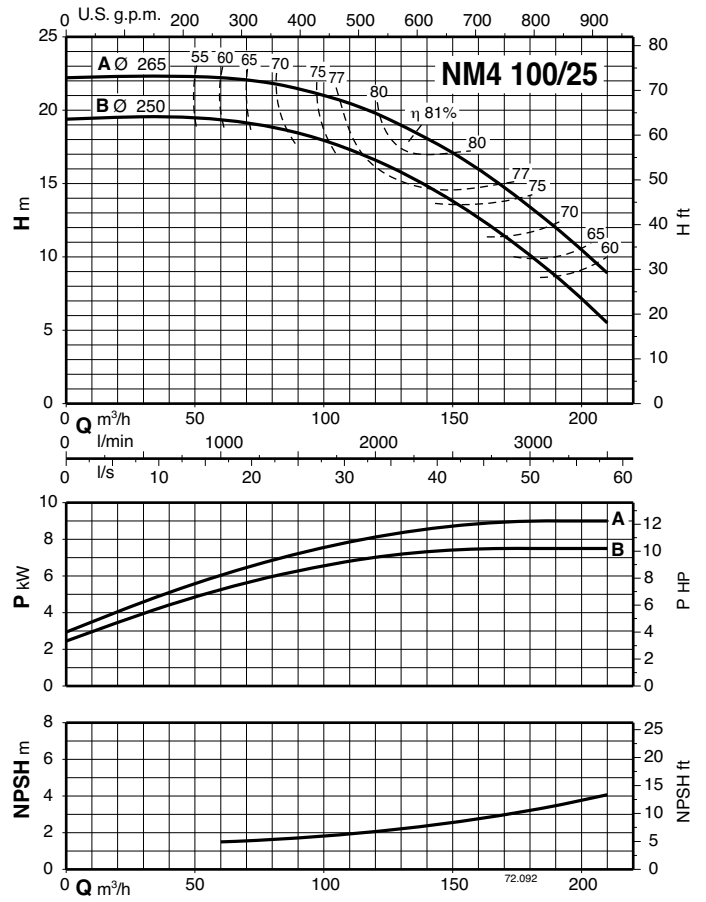
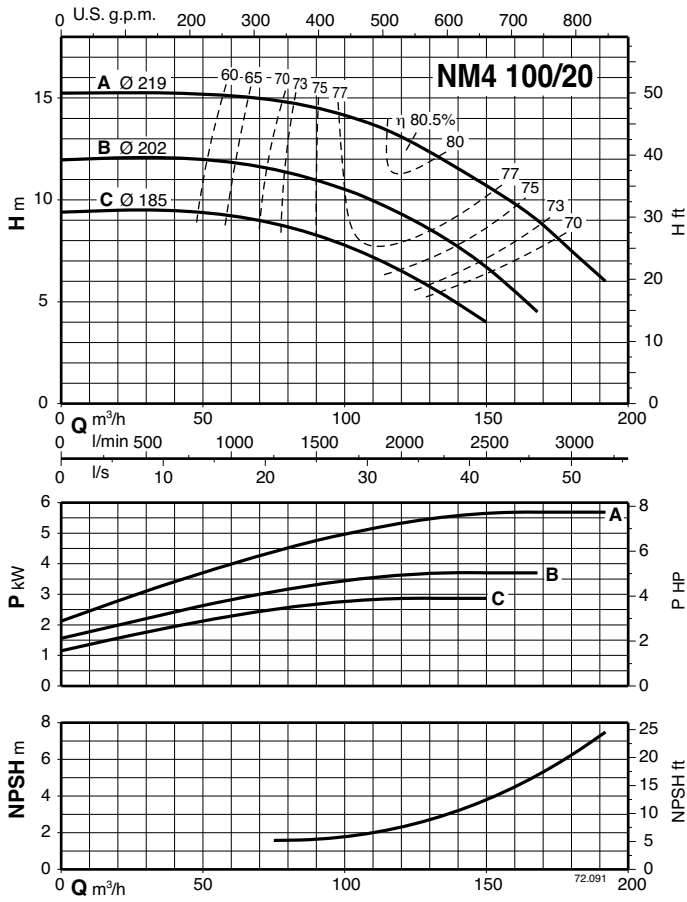
Characteristic curves $n \approx 1450$ rpm



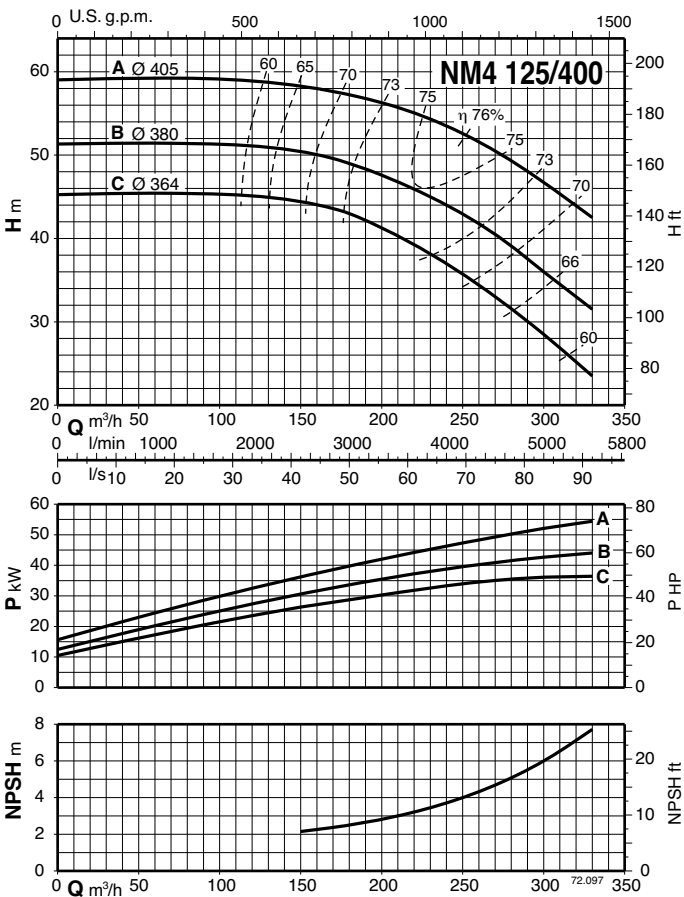
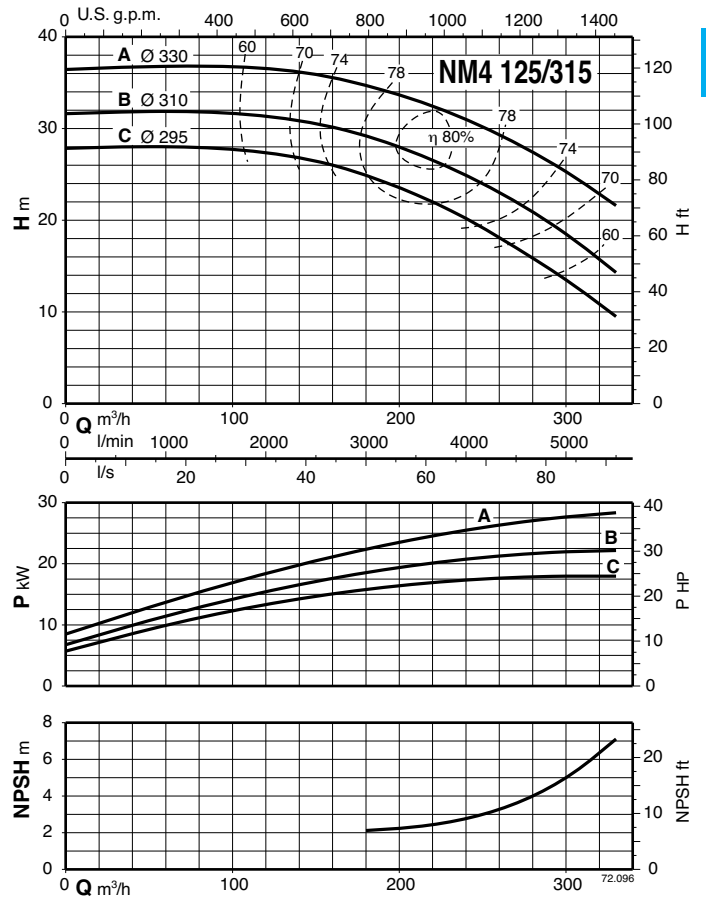
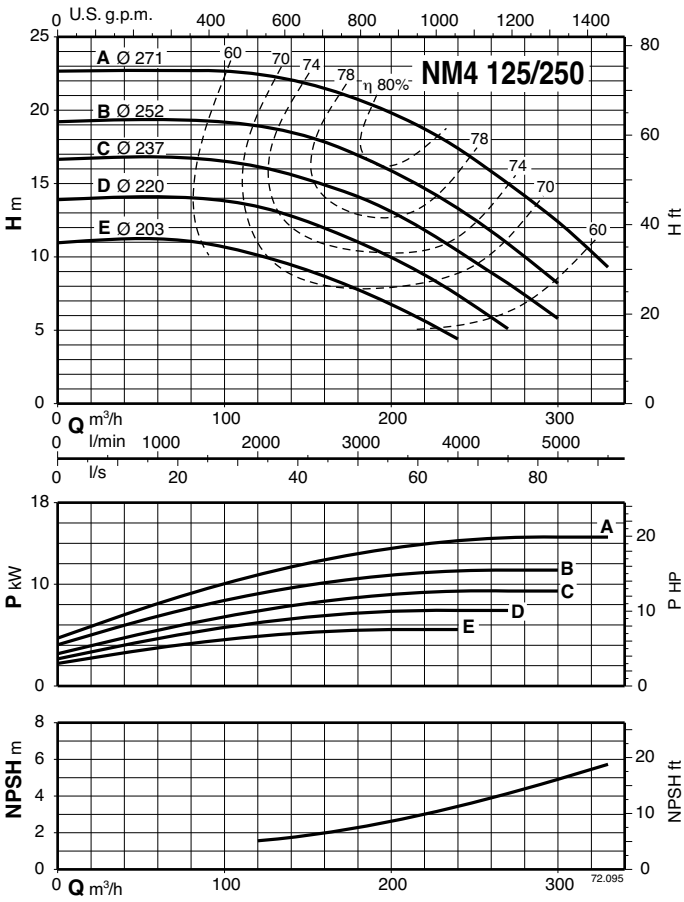
Characteristic curves $n \approx 1450$ rpm



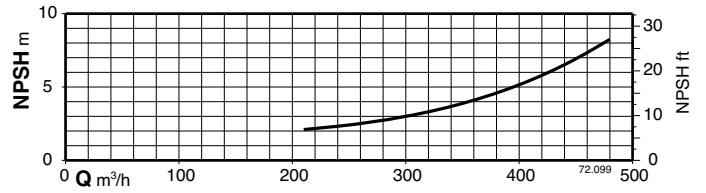
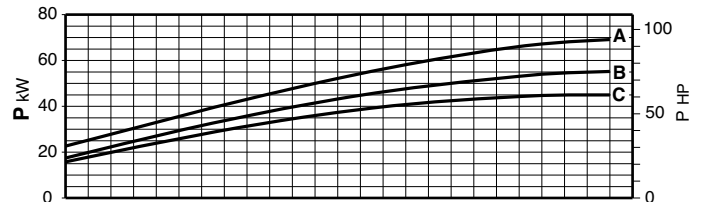
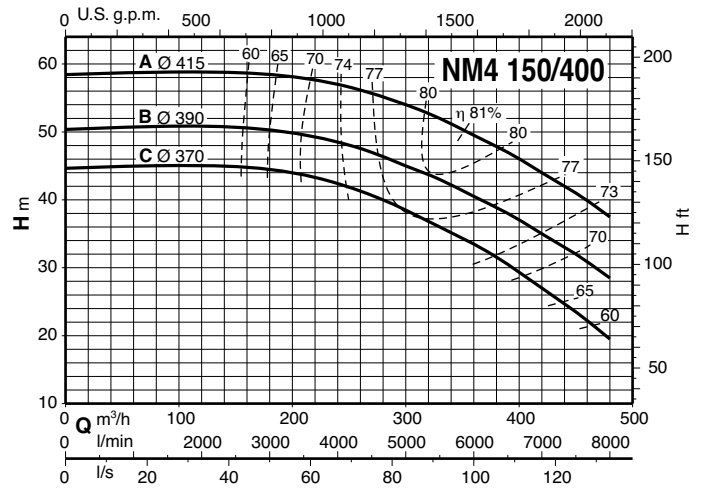
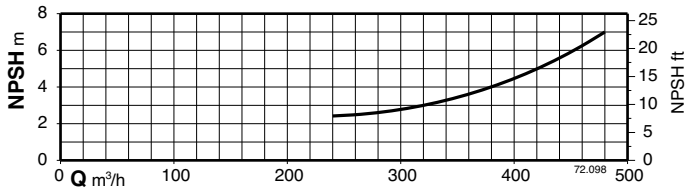
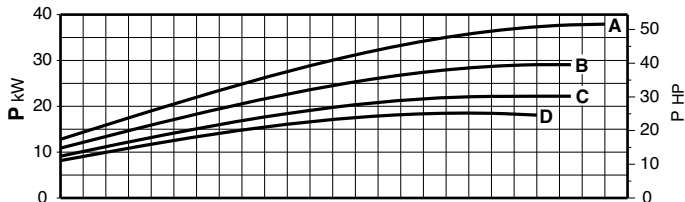
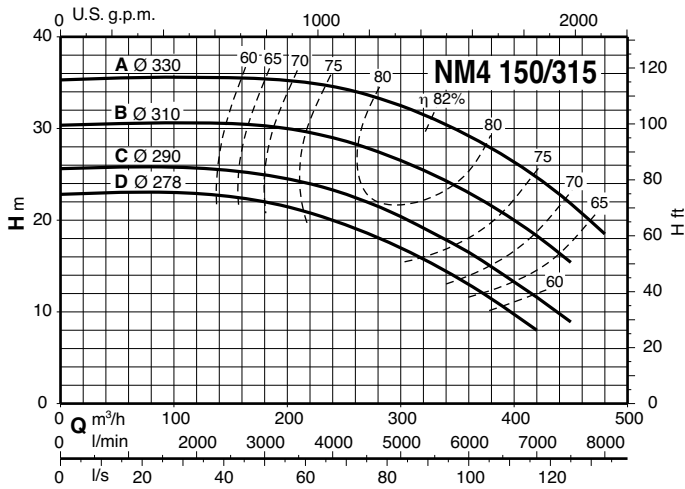
Characteristic curves $n \approx 1450$ rpm



Characteristic curves $n \approx 1450$ rpm

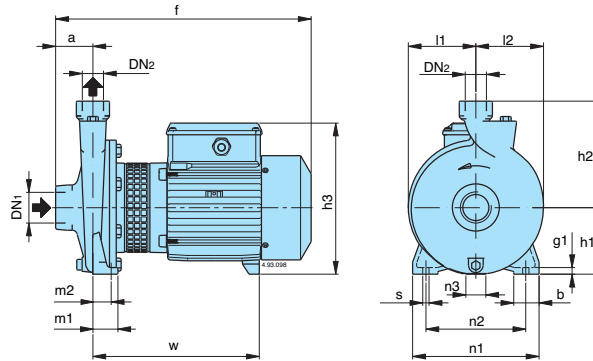


Characteristic curves $n \approx 1450$ rpm



Dimensions and weights

1



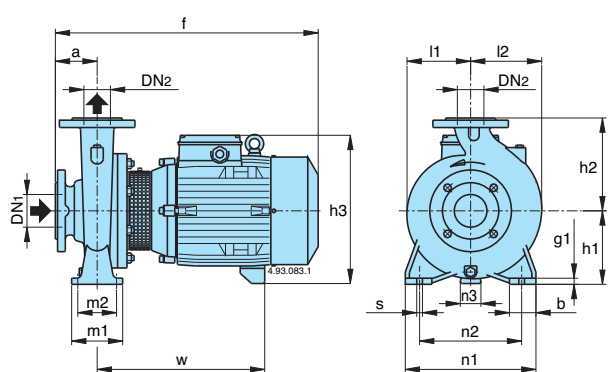
Standard construction

Picture	NM4	DN1 ISO 228	DN2 G 1	mm																kg
				a	f	h1	h2	h3	m1	m2	n1	n2	n3	b	s	l1	l2	w	g	
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	13,5
	NM4 25/160AE-BE			56	380	100	160	228	37,5	27,5	190	150	30	38	9,5	102	102	250	10	17,5
	NM4 25/200AE-BE-CE			63	385	125	180	253	45	32,5	245	200	49	45	11,5	125	125	250	11	25-23-21,5

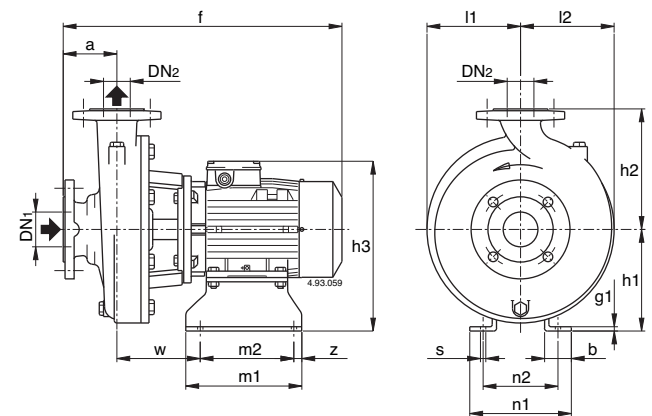
Bronze construction B-NM4

Picture	B-NM4	DN1 ISO 228	DN2 G 1	mm																kg
				a	f	h1	h2	h3	m1	m2	n1	n2	n3	b	s	l1	l2	w	g	
1	B-NM4 25/160AE-BE	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	19-19
	B-NM4 25/200AE-BE-CE			63	400	125	180	253	45	32,5	245	200	49	45	11,5	125	125	250	11	27-25-23

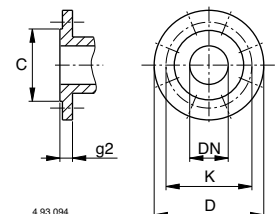
2



3



Flanges EN 1092-2

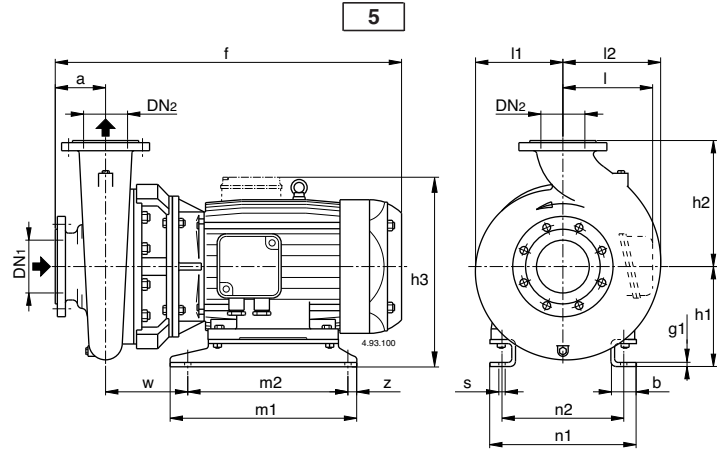
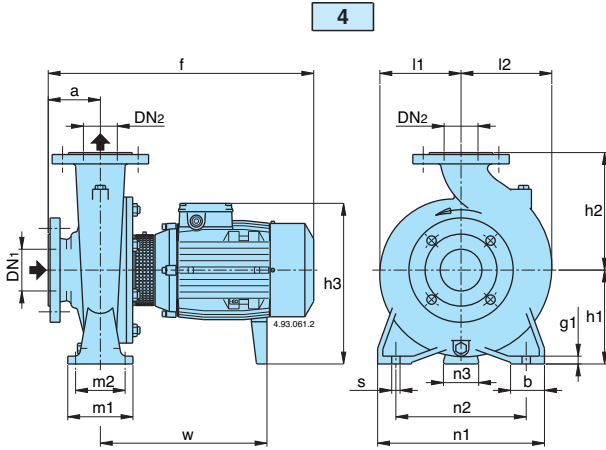


Bronze construction B-NM4

Picture	B-NM4	DN1	DN2	MM																kg		
				a	f	h1	h2	h3	m1	m2	n1	n2	n3	z	b	s	l	l1	l2		w	g1
2	B-NM4 32/16A-B	50	32	80	410	132	160	260	100	70	240	190	47	-	50	14	-	120	120	255	12	38-38
	B-NM4 32/20A-B	50	32	80	410	160	180	288	100	70	240	190	62	-	50	14	-	140	140	255	12	43-41
	B-NM4 40/16A-B-C	65	40	80	410	132	160	260	100	70	240	190	47	-	50	14	-	119	119	255	12	41-40-38
	B-NM4 40/20A-B	65	40	100	430	160	180	288	100	70	265	212	62	-	50	14	-	140	140	255	12	52-52
3	B-NM4 4025/B/A-C/A	65	40	100	535	190	225	318	205	175	190	140	-	15	54	10	-	175	175	156	6	73-70
	B-NM4 4025/A/A				560	190	225	350	280	250	230	190	140	-	15	60	12	-	175	175	125	6
2	B-NM4 50/16A-B	65	50	100	430	160	180	288	100	70	265	212	62	-	50	14	-	127	141	255	12	52-52
3	B-NM4 5025/C/A-D	65	50	100	535	190	225	318	205	175	190	140	-	15	54	10	-	175	175	156	6	77-77
	B-NM4 5025/A/A-B/A				560	190	225	350	280	250	230	190	140	-	15	60	12	-	175	175	125	6
2	B-NM4 65/16B-C	80	65	100	430	160	200	288	125	95	280	212	62	-	65	14	-	150	172	255	15	60-60
	B-NM4 65/16A				495	160	200	306	125	95	280	212	60	-	65	14	-	150	172	300	15	68

mm						
DN	C	K	D	Holes N°	Ø	g2
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

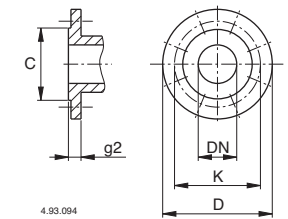
Dimensions and weights



Standard construction

Picture	NM4	mm																				kg					
		DN1	DN2	a	f	h1	h2	h3	m1	m2	n1	n2	n3	z	b	s	l	l1	l2	w	g1						
4	NM4 32/16AE-BE	50	32	80	410	132	160	260	100	70	240	190	47	-	50	14	-	120	120	255	12	30,5-30					
	NM4 32/20AE-BE	50	32	80	410	160	180	288	100	70	240	190	62	-	50	14	-	140	140	255	12	36-34,5					
	NM4 40/16A/A-B/A-C/A	65	40	80	410	132	160	268	100	70	240	190	47	-	50	14	-	119	119	255	12	35-33-31					
	NM4 40/20AE-BE	65	40	100	430	160	180	288	100	70	265	212	62	-	50	14	-	140	140	255	12	41-40,5					
	NM4 40/25B/A-C/A	65	40	100	495	180	225	308	125	95	320	250	60	-	65	14	-	175	175	300	330	15	64-59				
	NM4 40/25A/A				525			340															78				
	NM4 50/16A/A-B/A	65	50	100	430	160	180	288	100	70	265	212	62	-	50	14	-	127	141	255	12	40-39,5					
	NM4 50/20C/A	65	50	100	440	160	200	288	100	70	265	212	62	-	50	14	-	140	153	265	310	14	44,5				
	NM4 50/20A/A-B/A				505																		60	54,5-49,5			
	NM4 50/25C/A-D	65	50	100	490	180	225	308	125	95	320	250	60	-	65	14	-	175	175	300	330	15	65,5-65,5				
	NM4 50/25A/A-B/A				530			340															85,5-77,5				
	NM4 65/16BE-CE	80	65	100	430	160	200	288	125	95	280	212	62	-	65	14	-	150	172	255	300	15	46-46				
	NM4 65/16AE				495																		60	51,5			
	NM4 65/20BE	80	65	100	505	180	225	308	125	95	320	250	60	-	65	14	-	155	175	310	330	15	58,5				
	NM4 65/20AE				525			60															73,5				
	NM4 65/25BE	80	65	100	540	200	250	360	160	120	360	280	60	-	80	18	-	175	190	345	415	18	97				
	NM4 65/25AE				645			385															116				
	NM4 65/31BE-CE	80	65	125	670	225	280	410	160	120	400	315	75	-	80	18	-	220	220	415	465	20	164-153				
	NM4 65/31AE				720			315															176				
	NM4 80/16CE	100	80	125	455	180	225	290	125	95	320	250	62	-	65	14	-	165	193	255	300	15	53				
NM4 80/16AE-BE	520				308			63-58																			
NM4 80/20CE	100	80	125	540	180	250	308	125	95	345	280	60	-	65	14	-	170	194	320	340	15	72					
NM4 80/20AE-BE				560			340															91-82					
NM4 80/25CE	100	80	125	565	200	280	360	160	120	400	315	60	-	80	18	-	191	210	335	415	20	102					
NM4 80/25AE-BE				670			385															135-124					
NM4 80/31CE	100	80	125	720	250	315	435	160	120	400	315	90	-	80	18	-	220	232	465	20	181						
5	NM4 80/315AE-BE	100	80	125	850	260	315	466	435	395	314	254	-	20	74	14	-	220	232	210	6	250-227					
	NM4 80/400CE	125	80	125	865	270	355	-	482	397	350	279	-	25	78	14	270	268	268	216	216	6	336				
	NM4 80/400BE				905																		270	350	279	365	
NM4 80/400AE	970				290																		396	318	436		
4	NM4 100/20BE-CE	125	100	125	565	200	280	360	160	120	360	280	60	-	80	18	-	180	212	330	410	20	99-90				
	NM4 100/20AE				665			385															109				
NM4 100/25BE	125	100	140	685	225	280	410	160	120	400	315	75	-	80	18	-	205	233	415	465	20	143					
NM4 100/25AE				735																		315	152				
5	NM4 100/315BE-CE	125	100	140	865	260	315	466	435	395	314	254	-	20	74	14	-	230	250	210	223	6	261-240				
	NM4 100/315AE				880			250															-	432	382	350	279
5	NM4 100/400CE	125	100	140	920	290	355	-	435	395	350	279	-	20	78	14	270	268	280	221	233	6	368				
	NM4 100/400AE-BE				980																		355	455	396	318	450-427
4	NM4 125/25DE-EE	150	125	140	685	250	355	435	160	120	400	315	90	-	80	18	-	235	268	415	465	20	161-149				
	NM4 125/25CE				735																		315	173			
5	NM4 125/250AE-BE	150	125	140	865	260	355	466	435	395	314	254	-	20	74	14	-	235	268	210	6	242-222					
	NM4 125/315CE	150	125	140	880	270	355	-	482	397	350	279	-	25	78	14	270	247	278	216	216	6	331				
	NM4 125/315BE				920																		355	435	371	300	365
	NM4 125/315AE				980																		355	455	396	318	414
	NM4 125/400CE	150	125	140	980	300	400	-	540	455	396	318	-	25	84	18	290	280	305	233	274	8	459				
	NM4 125/400AE-BE				1045																		325	440	356	585-550	
	NM4 150/315DE	200	150	160	900	290	400	-	435	395	371	300	-	20	78	14	270	260	298	229	248	233	6	363			
	NM4 150/315CE				940																			372			
	NM4 150/315AE-BE				1000																			372	437-424		
	NM4 150/400BE-CE	200	150	160	1065	325	450	-	540	461	440	356	-	25	92	18	330	295	328	274	290	8	590-555				
	NM4 150/400AE				1145																		320	614			

Flanges EN 1092-2



mm						
DN	C	K	D	Holes	g2	
				N° Ø		
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	
150	211	240	285	8 23	26	
200	266	295	340	8 23	30	