



3

Ejecución

Electrobombas centrífugas monobloc con acoplamiento directo motor-bomba y eje único.

Cuerpo bomba con orificio de aspiración axial y orificio de impulsión vertical-radial, con dimensiones principales y prestaciones según EN 733, con otros modelos adjuntos complementarias.

Orificios

Modelos	Orificios
NM4 25/125, 25/160, 25/200	Roscados ISO 228
de NM4 32/16 a NM4 150/400	Bridas PN 10, EN 1092-2

Contrabridas bajo demanda

Modelos	Bridas
de NM4 32/16 a NM4 50/25	Bridas roscadas EN 1092-1, PN 16
de NM4 65/16 a NM4 150/400	Bridas para soldar con aportación EN 1092-1, PN 10

Aplicaciones

- Para líquidos limpios sin partes abrasivas, y no agresivas para los materiales de la bomba (con partes sólidas hasta 0,2% máx).
- Para el aprovisionamiento de agua.
- Para instalaciones de calefacción, acondicionamiento, refrigeración y circulación. - Para aplicaciones civiles e industriales.
- Cuando es requerido un funcionamiento de bajo nivel sonoro.
- Para irrigación.

Límites de empleo

Temperatura del líquido de -10 °C a +90 °C.
 Temperatura ambiente hasta 40 °C.
 Altura de aspiración manométrica hasta 7 metros.
 Presión final máxima admitida en el cuerpo de la bomba 10 bar.
 Servicio continuo.

Motor

Motor a inducción a 4 polos, 50 Hz (n = 1450 1/min).
NM4: trifásico 230/400 V ± 10% hasta 3 kW.
 400/690 V ± 10% de 4 a 75 kW.
 Aislamiento clase F.
 Protección IP 54.
 Ejecución según IEC 60034.

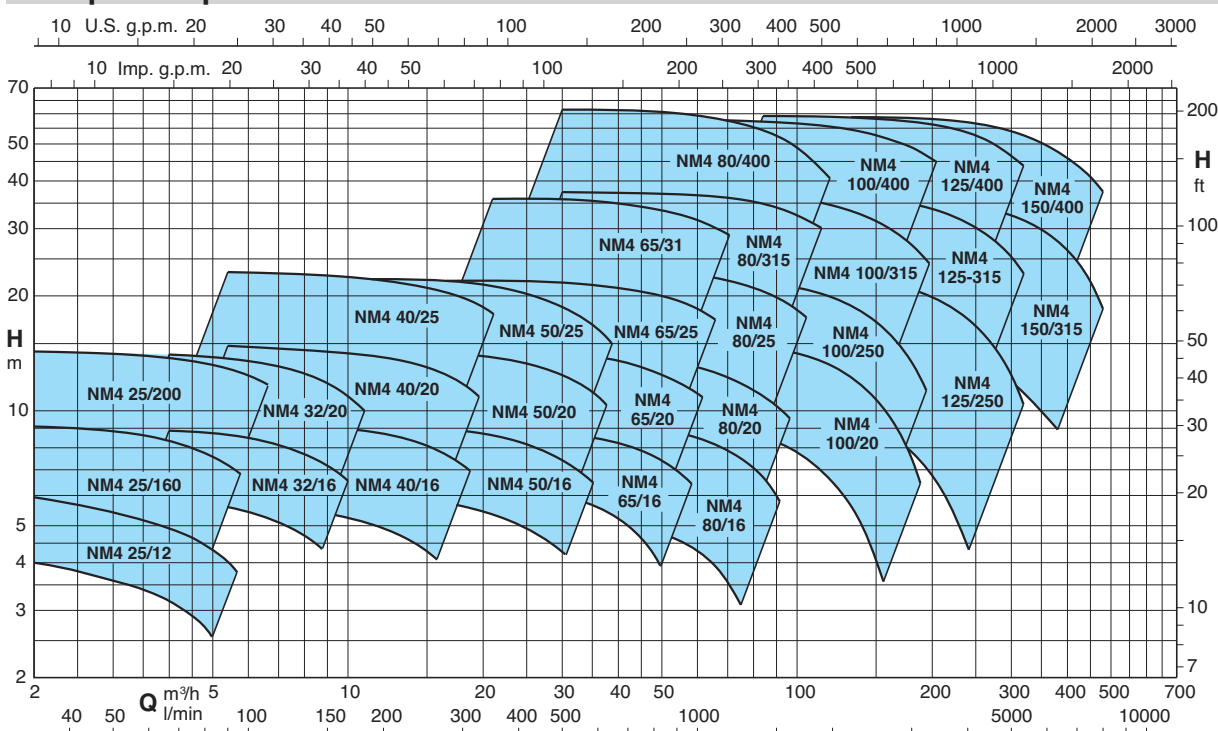
Otras ejecuciones bajo demanda

Otras tensiones. Frecuencia 60 Hz.
 Protección IP 55.
 Sello mecánico especial.
 Para líquidos o ambientes con temperaturas más elevadas o más bajas.

Materiales

Componentes	NM4	B-NM4
Cuerpo bomba	Hierro	Bronce
Acoplamiento	GJL 200 EN 1561	G-Cu Sn 10 EN 1982
Rodete	Hierro	Bronce
	GJL 200 EN 1561	G-Cu Sn 10 EN 1982
	Latón P- Cu Zn 40 Pb 2 UNI 5705 Para NM4 25/125 - 25/160 - 25/200 NM4 32/16 - 32/20 - 40/20	
Eje	Acero al Cr Ni AISI 303 hasta 1,1 kW Acero al Cr AISI 430 de 1,5 kW a 75 kW	Acero al Cr Ni Mo AISI 316
Sello mecánico	Carbón - Cerámica - NBR	
Contrabridas	Acero Fe 430B UNI 7070	

Campo de aplicaciones n ≈ 1450 1/min



Prestaciones n ≈ 1450 1/min

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	480
	l/min		1400	1600	1800	2000	2200	2500	2800	3000	3200	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	
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 Ejecución normal.
B-NM4 Ejecución en bronce.

P₂ Potencia nominal del motor.
H Altura total en m.

* Altura máxima de aspiración manométrica 1-2 m.
Tolerancias según ISO 9906, anexo A.

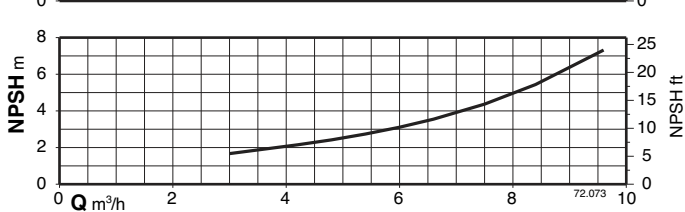
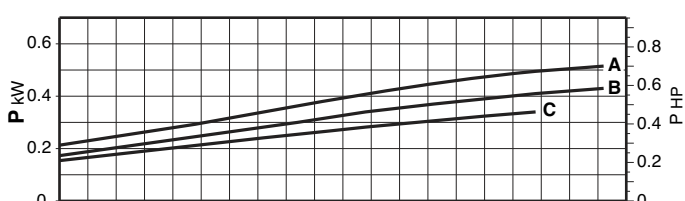
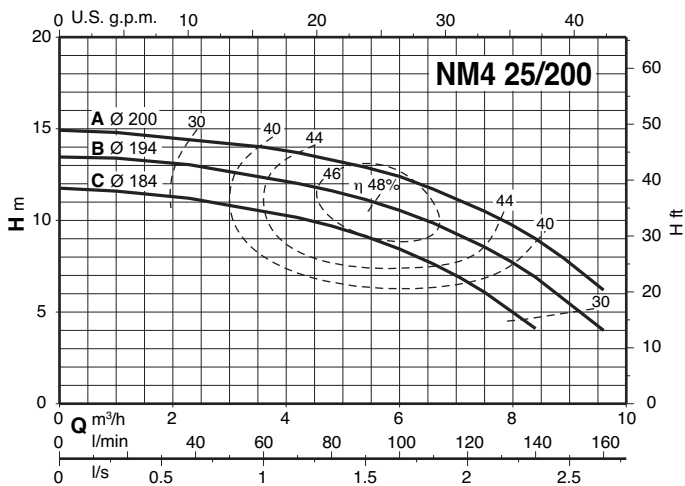
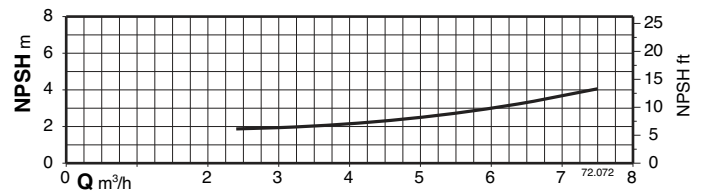
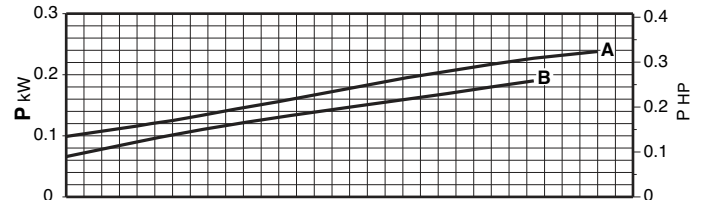
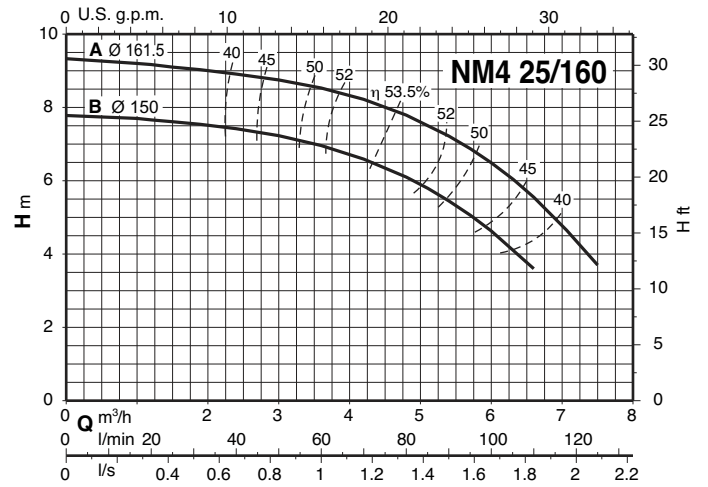
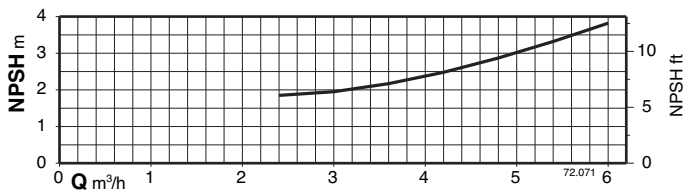
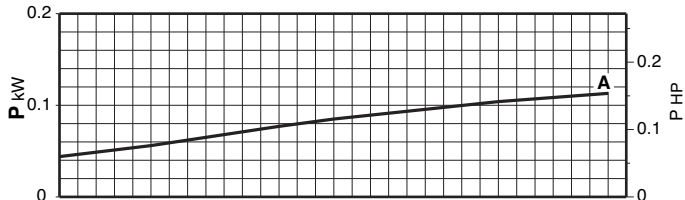
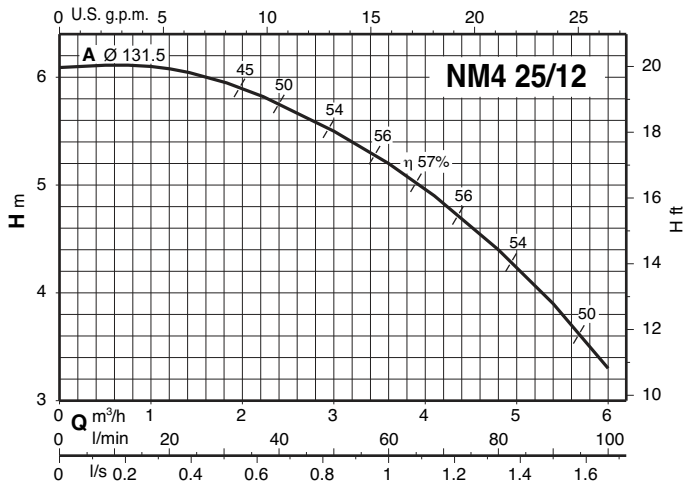
Intensidades nominales

P ₂		230 V Δ / 400 V Y		
kW	HP	IN A	IN A	IA/IN
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

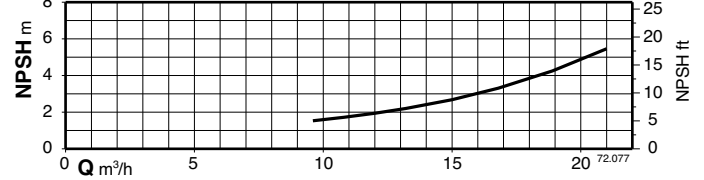
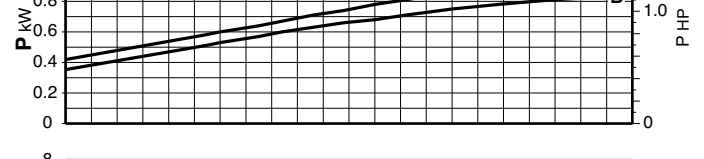
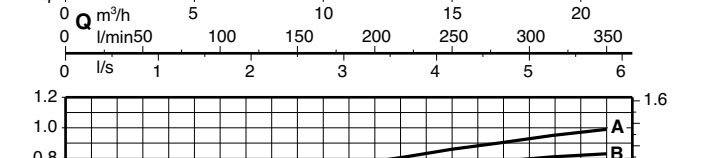
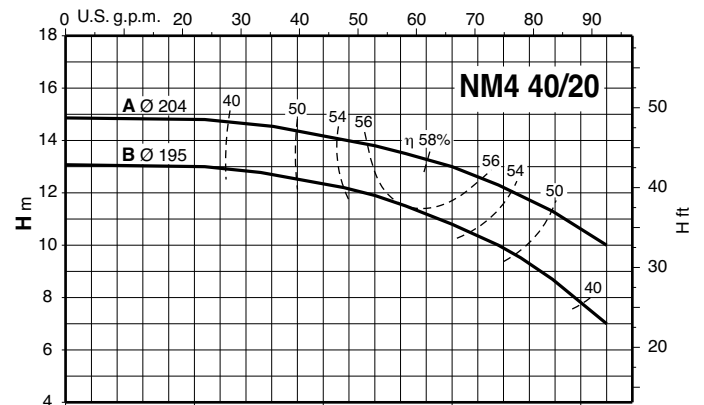
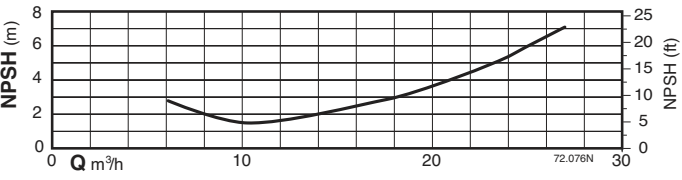
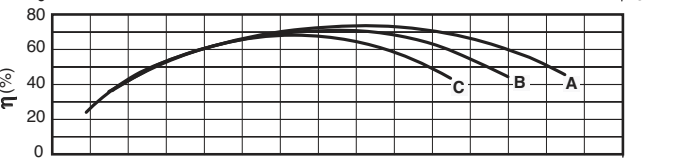
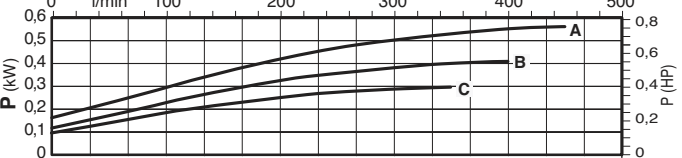
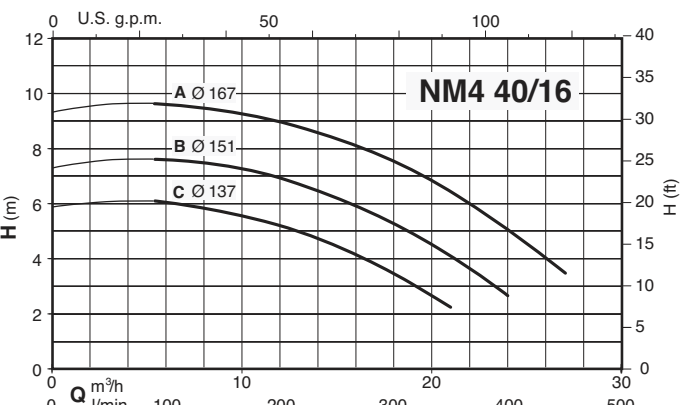
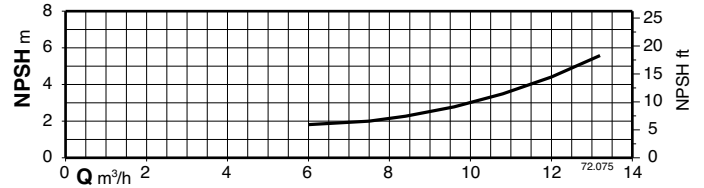
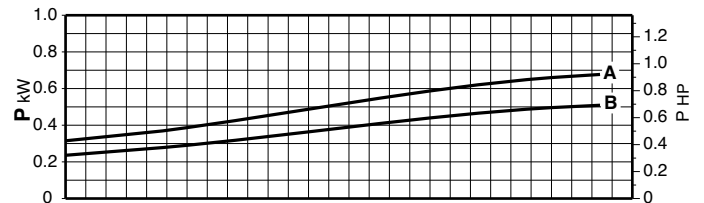
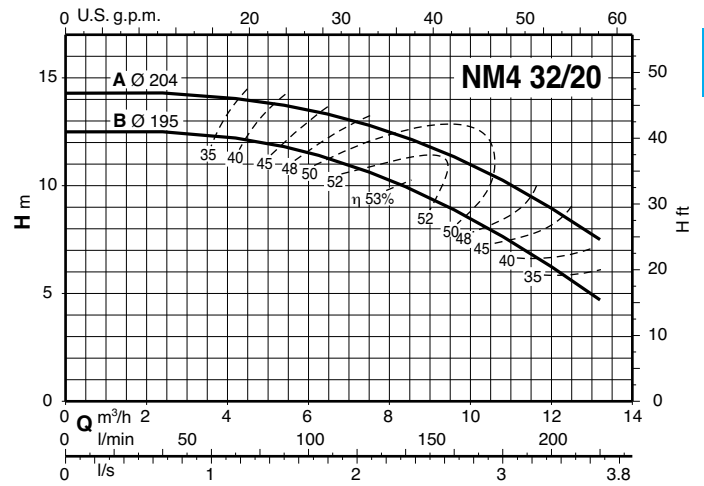
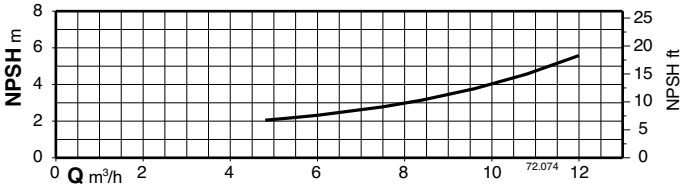
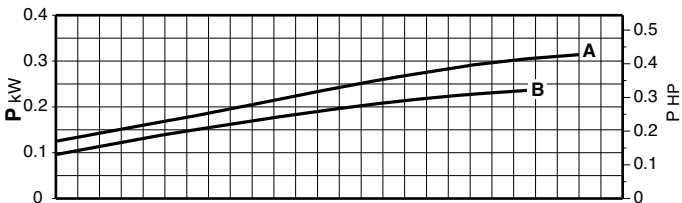
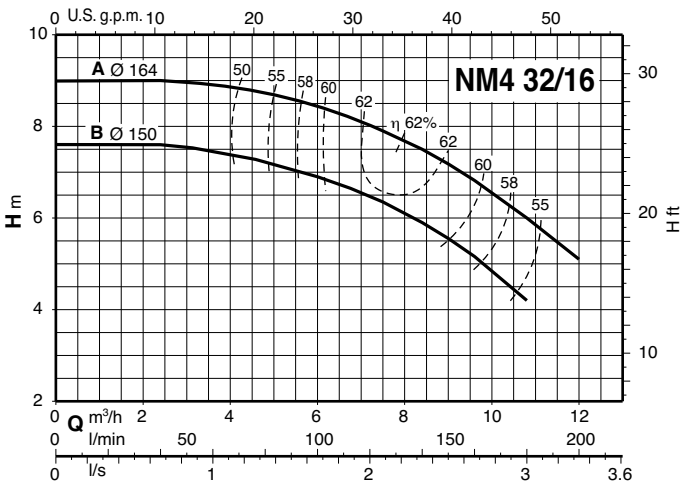
P ₂		400 V Δ / 690 V Y		
kW	HP	IN A	IN A	IA/IN
4	5,5	8,5	4,9	9,3
5,5	7,5	12,5	7,2	7,7
7,5	10	16	9,2	9,4
9,2	12,5	19	11	9,3
11	15	22,5	13	6,9
15	20	29	16,7	7
18,5	25	36,5	21	7,3
22	30	43	25	7,5
30	40	56	32	7,5
37	50	69	40	6
45	60	83	48	6,4
55	75	101	58	7,3
75	100	136	78	6

P₂ Potencia nominal del motor.
IA/IN Intensidad de arranque / Intensidad nominal

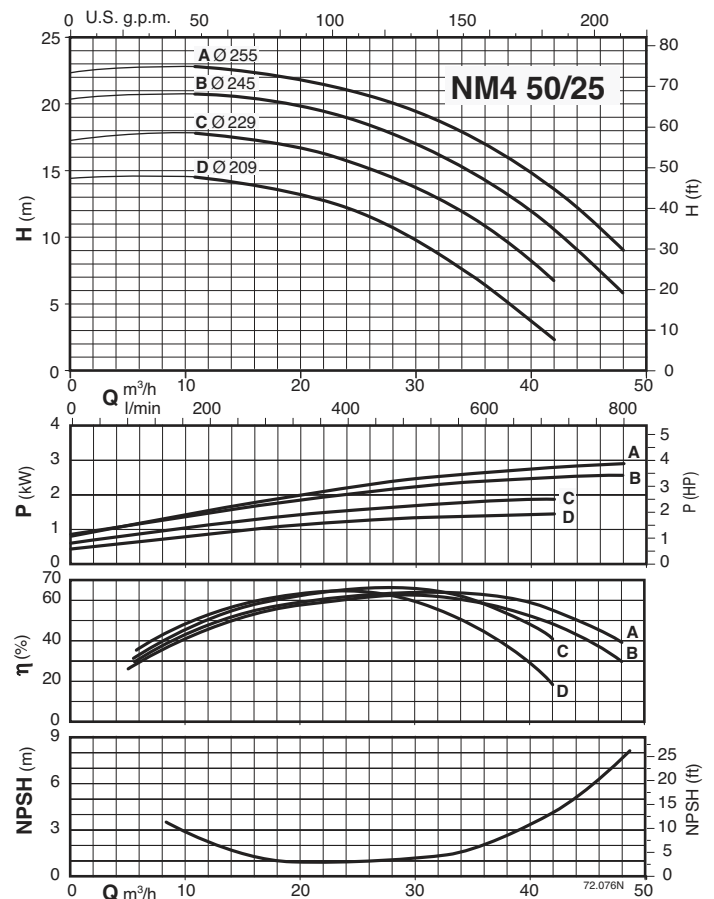
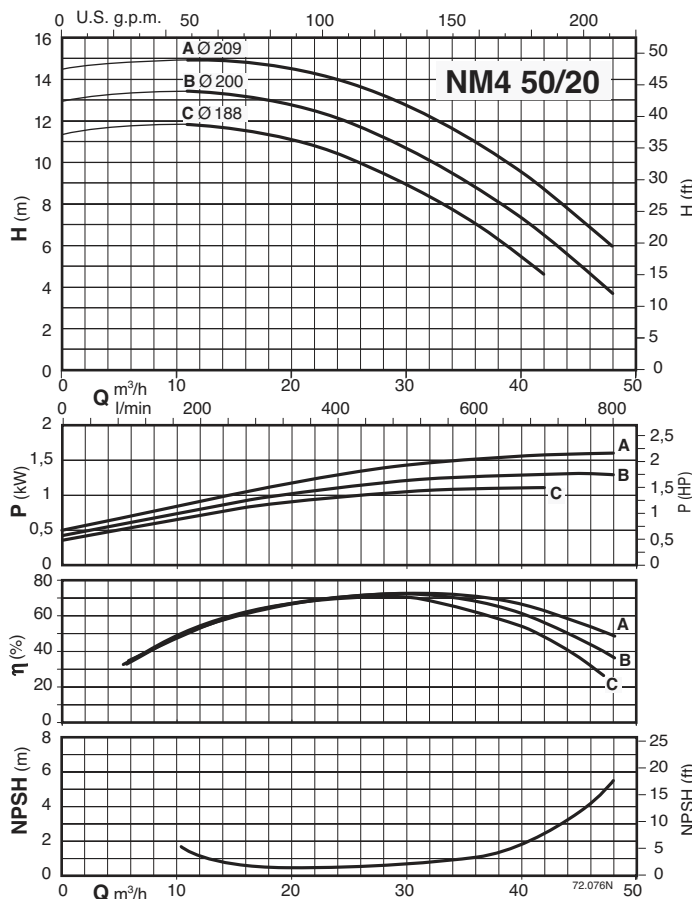
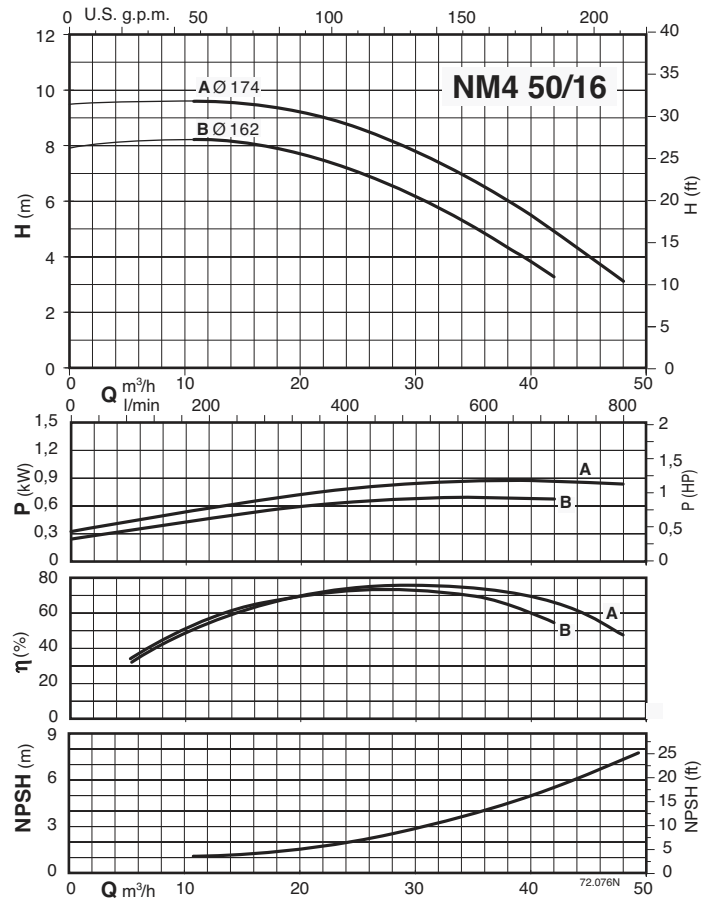
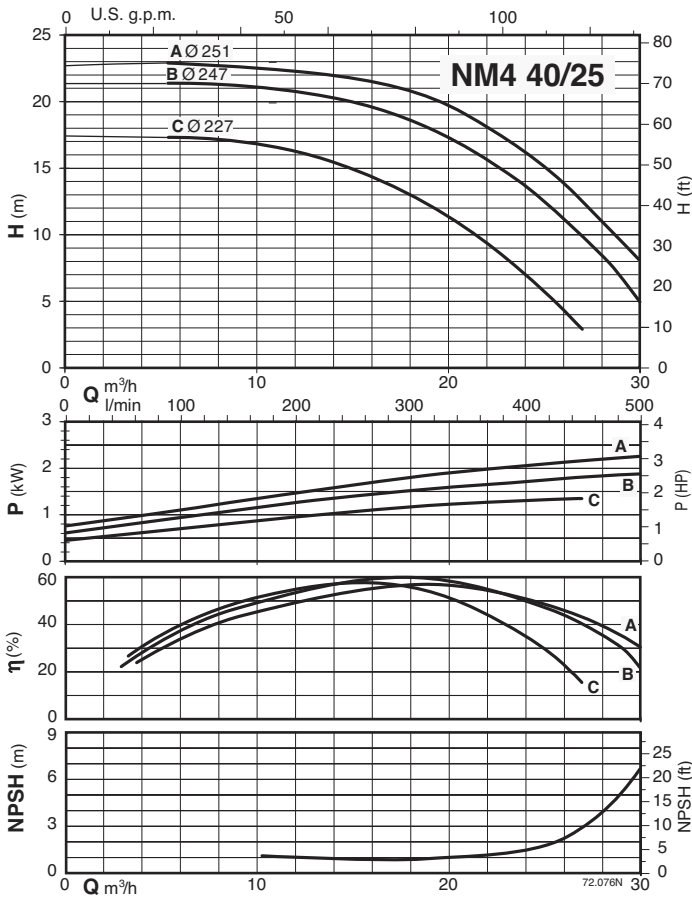
Curvas Características $n \approx 1450$ 1/min



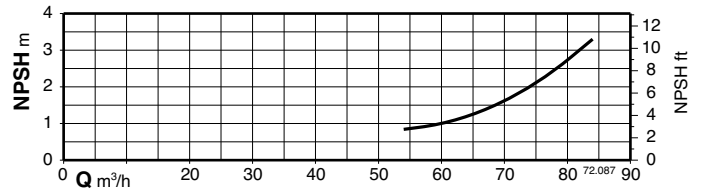
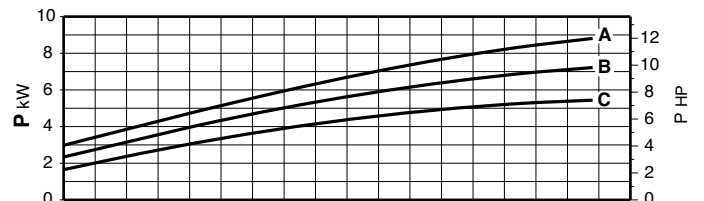
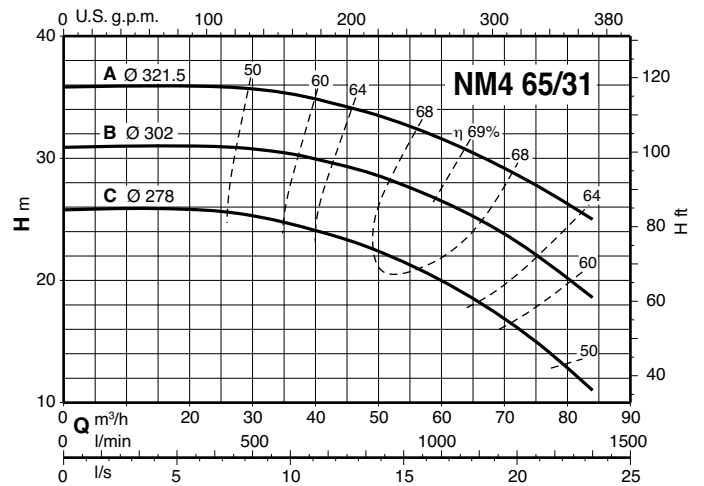
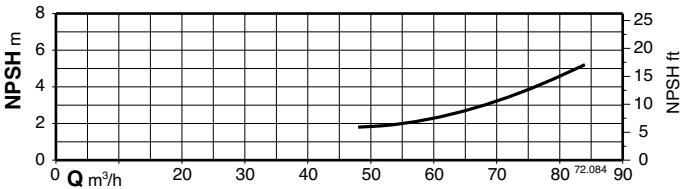
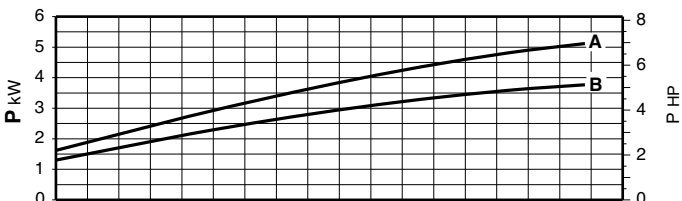
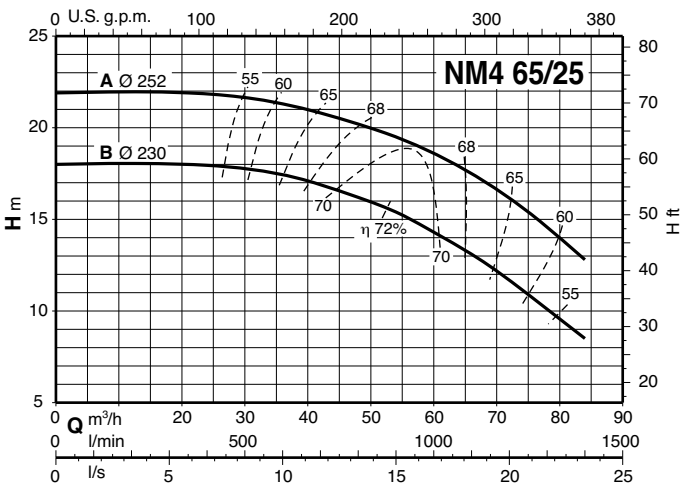
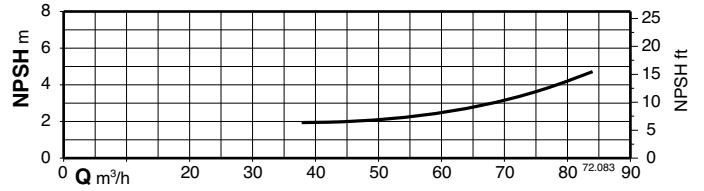
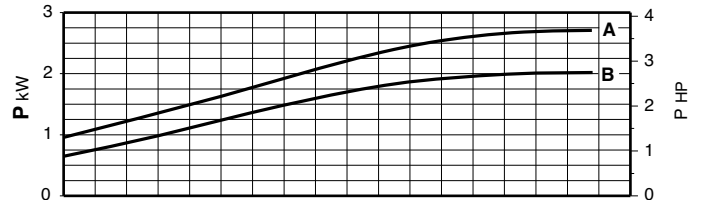
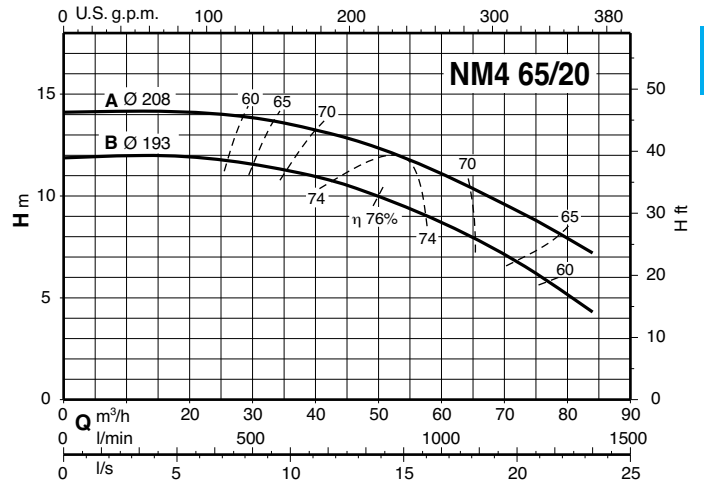
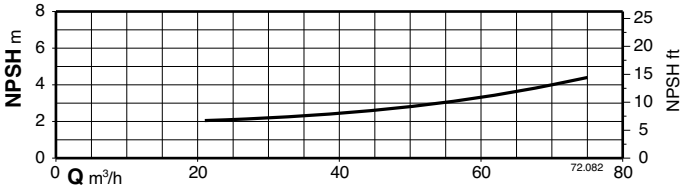
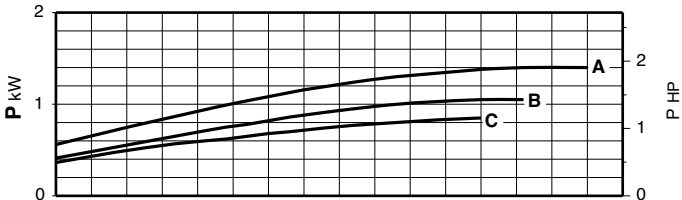
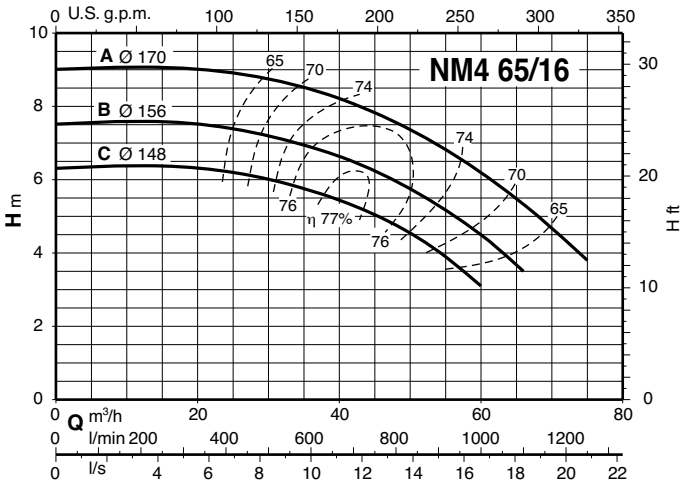
Curvas Características $n \approx 1450$ 1/min



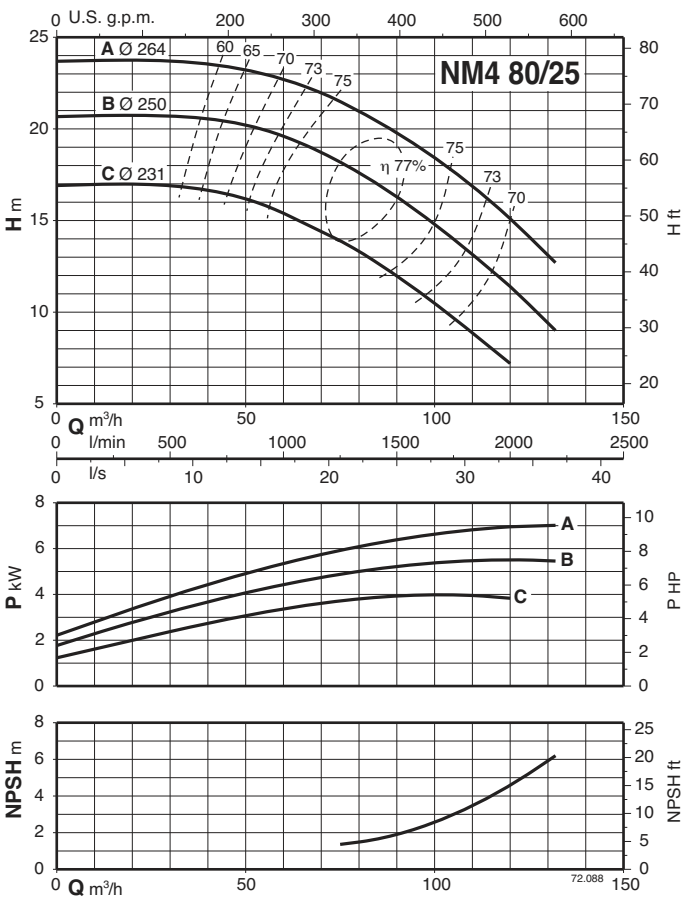
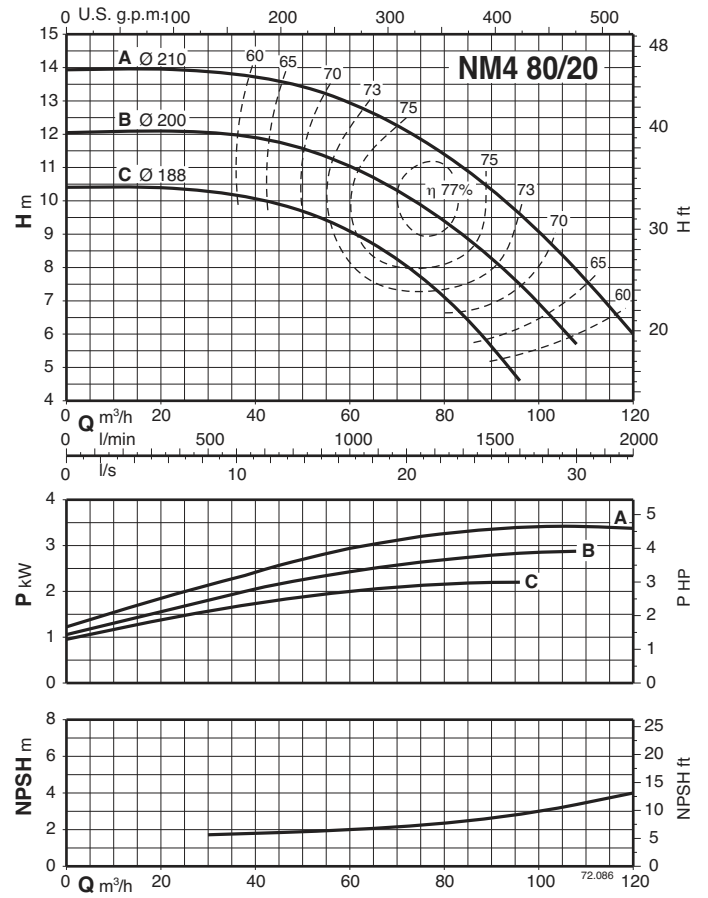
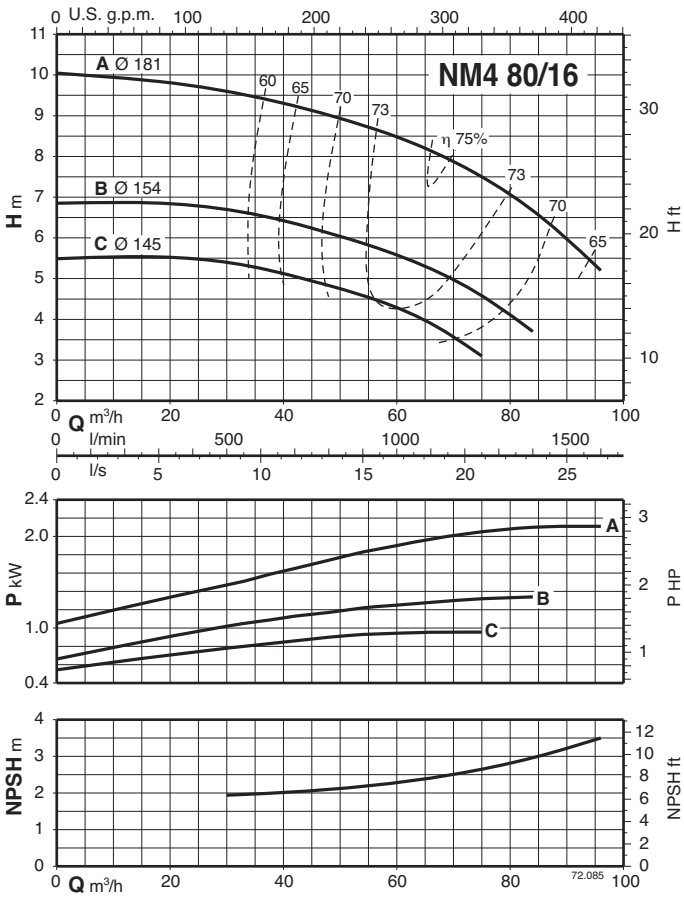
Curvas Características $n \approx 1450$ 1/min



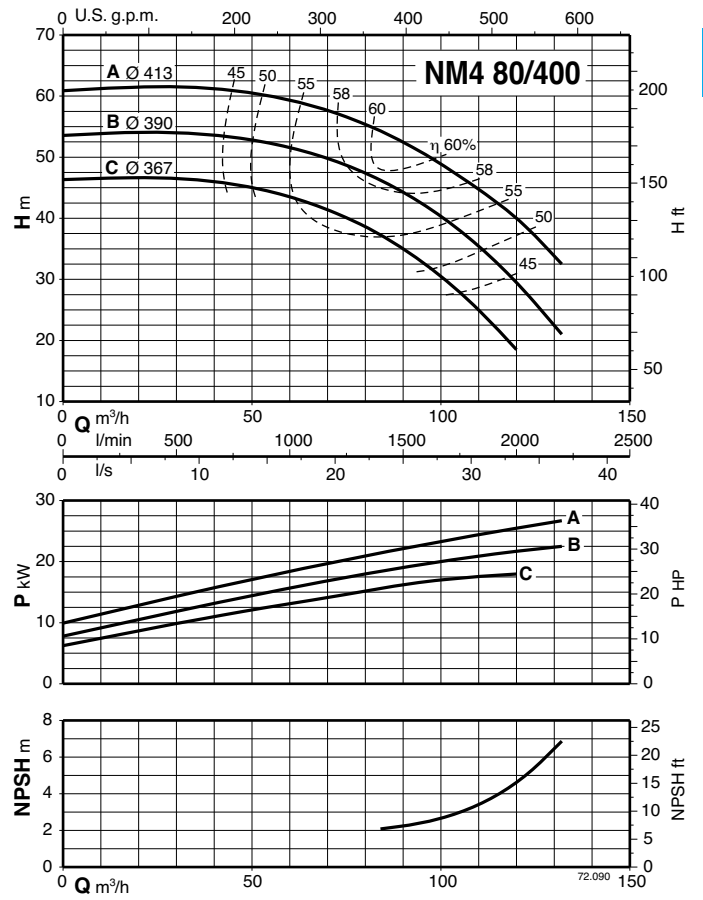
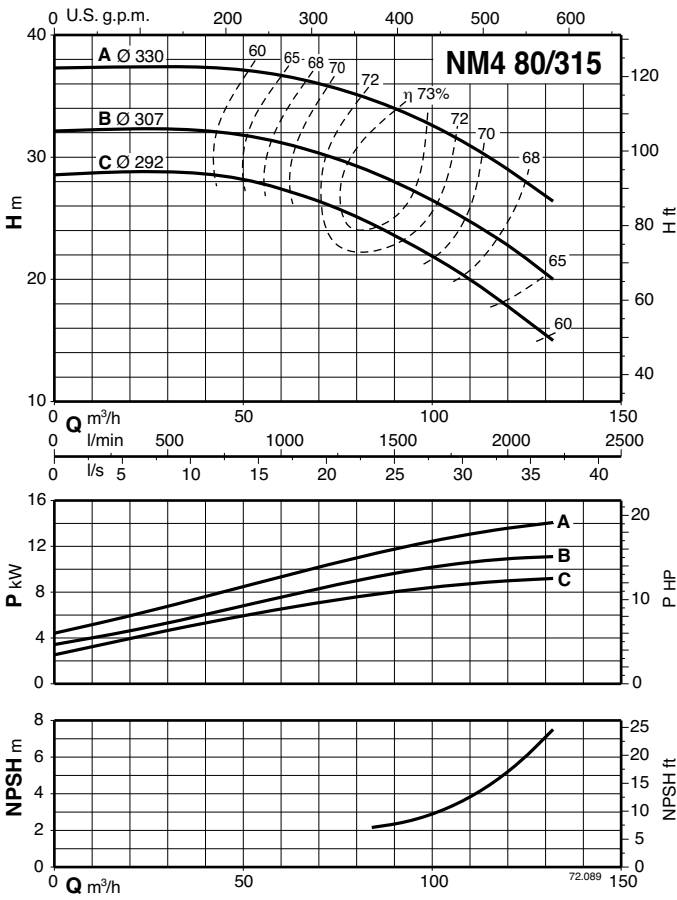
Curvas Características $n \approx 1450$ 1/min



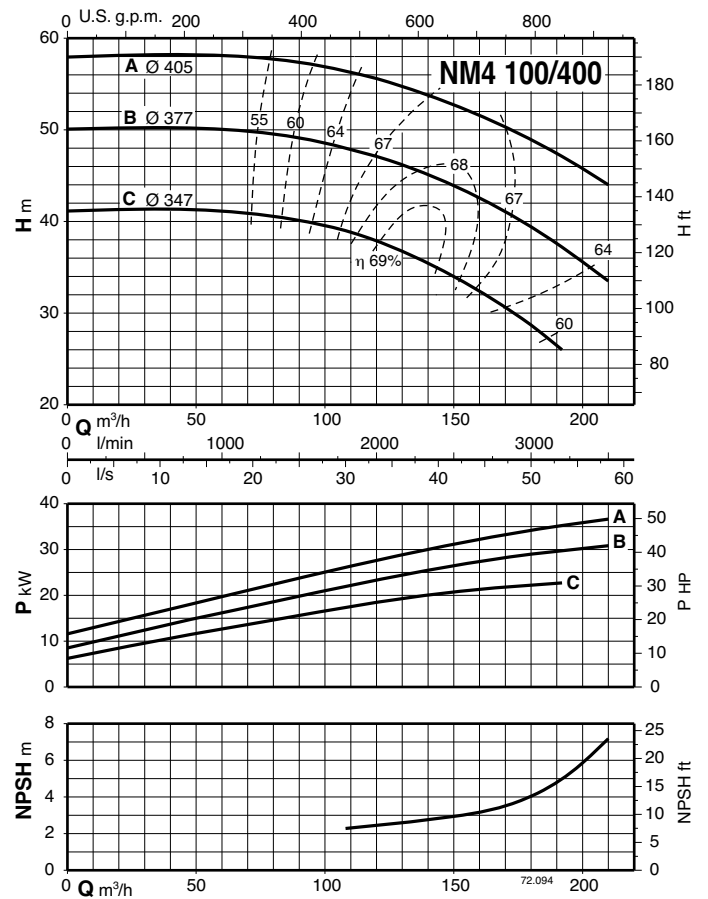
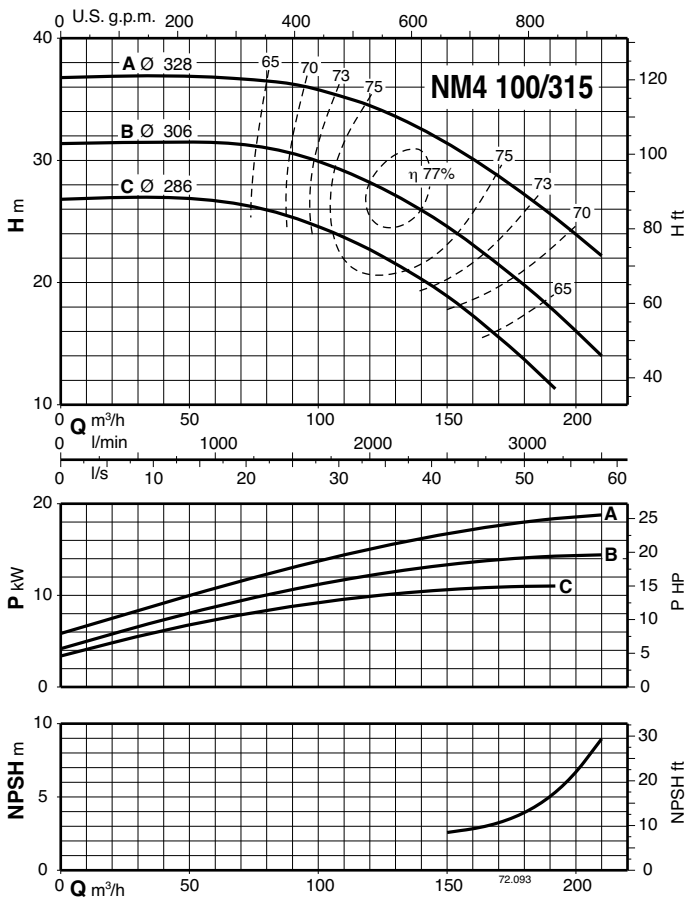
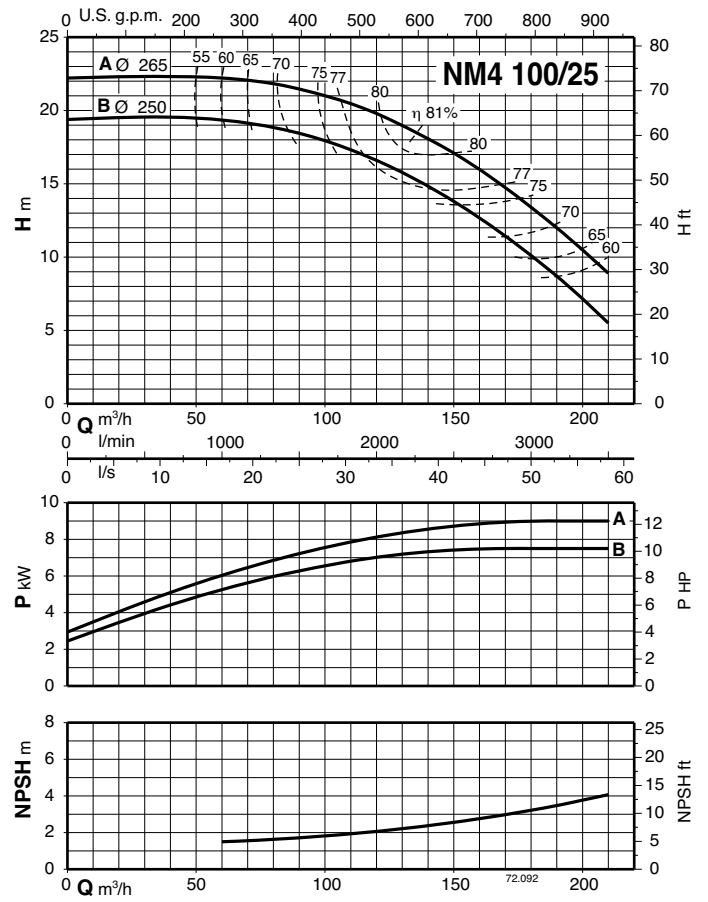
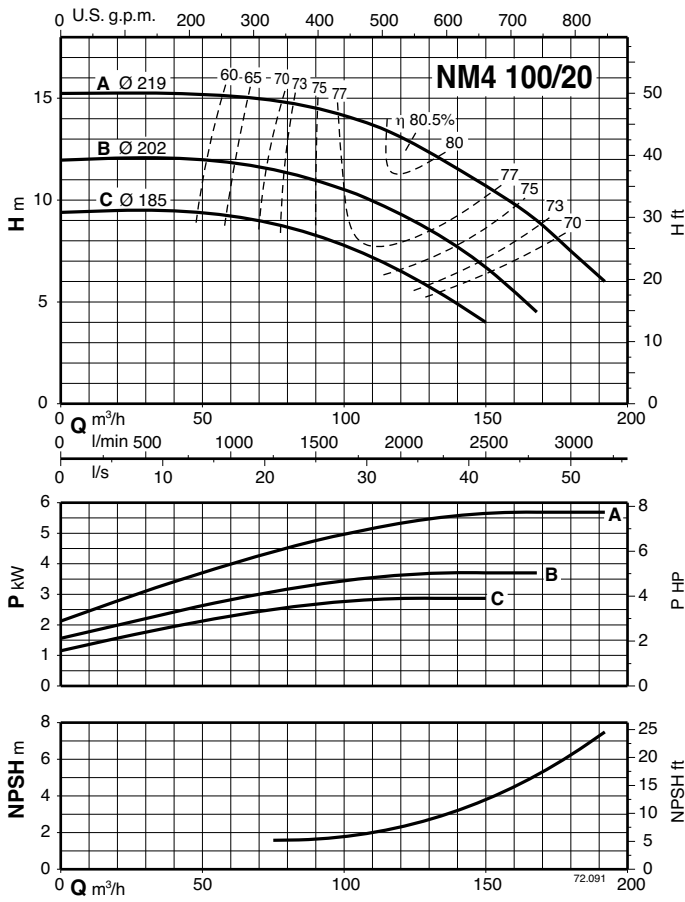
Curvas Características $n \approx 1450$ 1/min



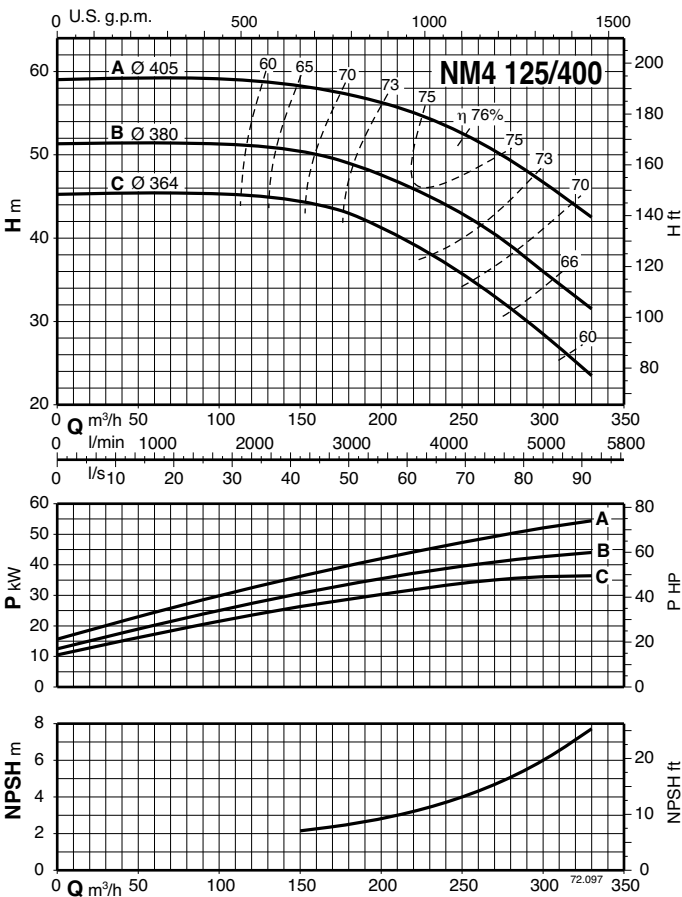
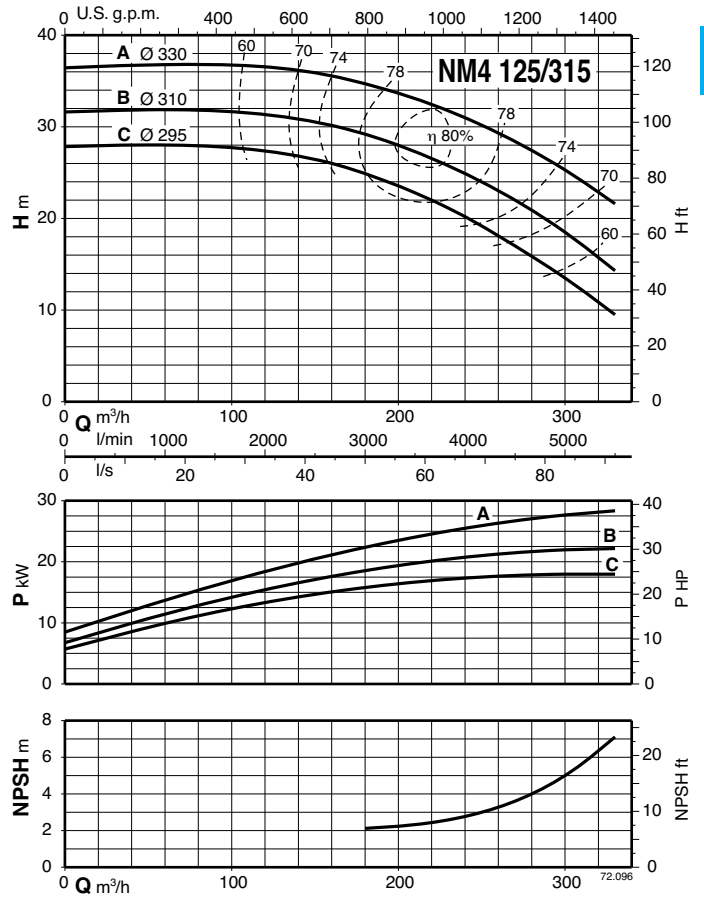
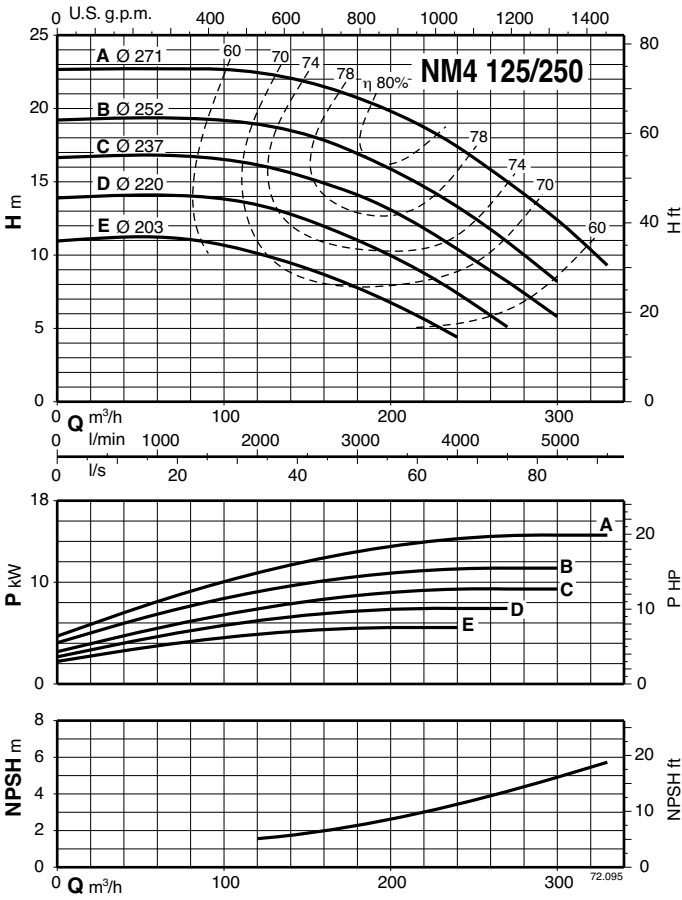
Curvas Características $n \approx 1450$ 1/min



Curvas Características $n \approx 1450$ 1/min

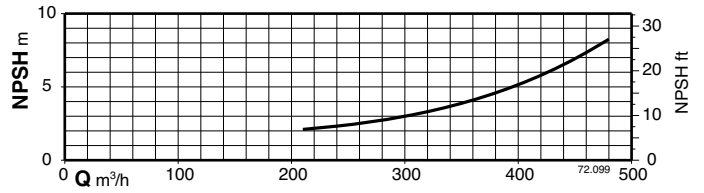
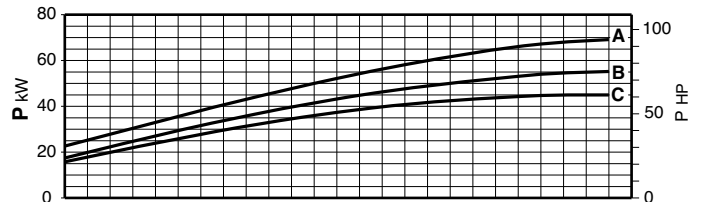
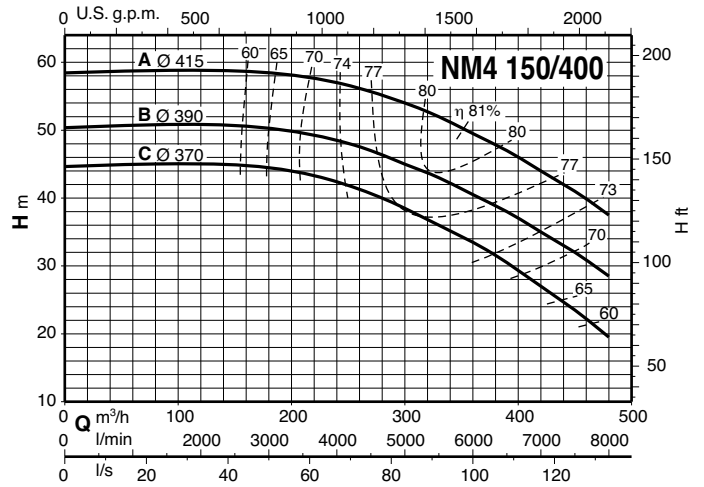
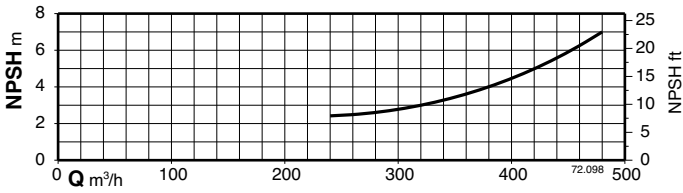
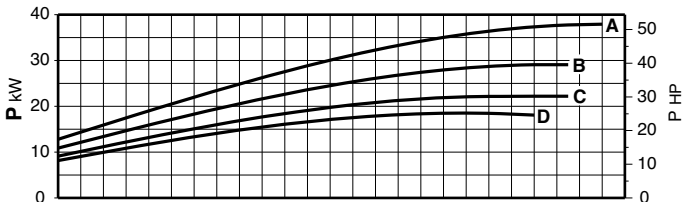
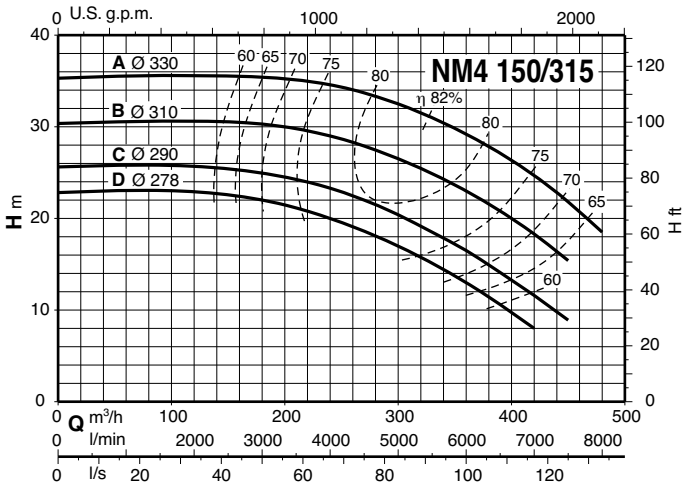


Curvas Características $n \approx 1450$ 1/min



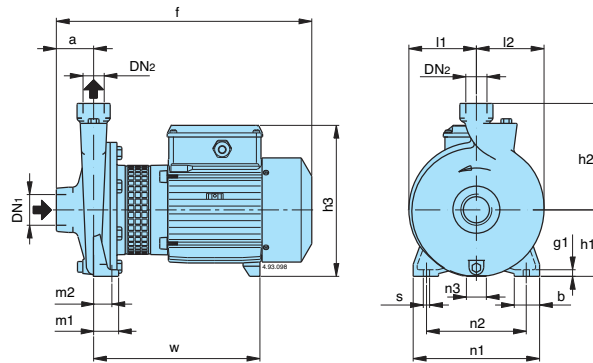
3

Curvas Características $n \approx 1450$ 1/min



Dimensiones y pesos

1



3

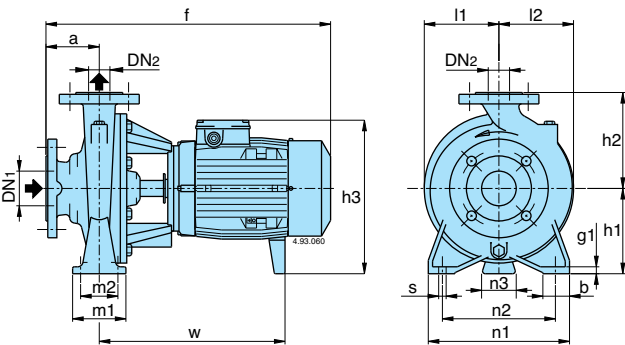
Ejecución normal

Figura	NM4	DN1 ISO 228	DN2	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

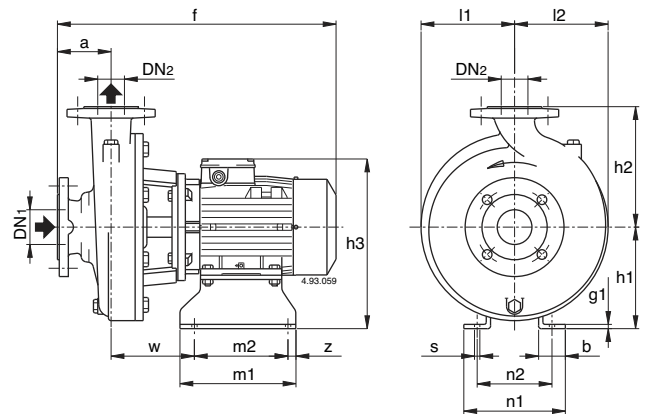
Ejecución en bronce B-NM4

Figura	B-NM4	DN1 ISO 228	DN2	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

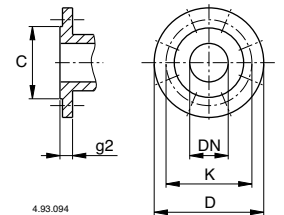
2



3



Bridas EN 1092-2

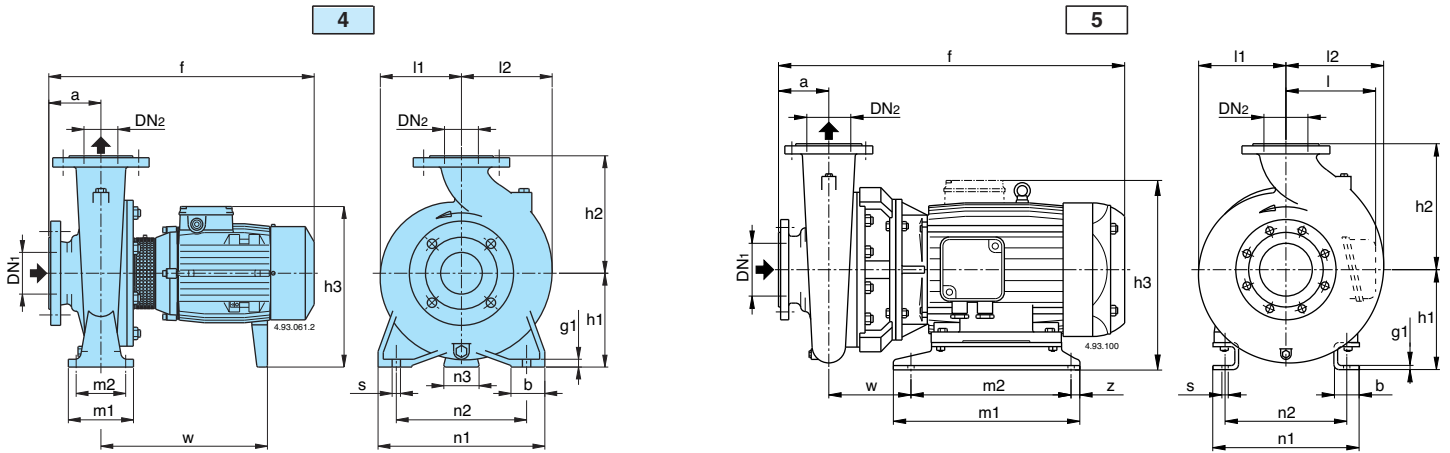


Ejecución en bronce B-NM4

Figura	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 32/160AE-BE	50	32	80	455	132	160	260	100	70	240	190	47	-	50	14	-	120	120	295	12	38-38
	B-NM4 32/200AE-BE	50	32	80	455	160	180	288	100	70	240	190	62	-	50	14	-	140	140	295	12	43-41
	B-NM4 40/160A/A-B/A-C/A	65	40	80	455	132	160	260	100	70	240	190	47	-	50	14	-	119	119	295	12	41-40-38
	B-NM4 40/200AE-BE	65	40	100	495	160	180	288	100	70	265	212	62	-	50	14	-	140	140	315	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				350	280	250	230	190	-	-	60	12	-	12	-	12	-	12	-	125	89
2	B-NM4 50/160A/A-B/A	65	50	100	495	160	180	288	100	70	265	212	62	-	50	14	-	127	141	315	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				350	280	250	230	190	-	-	60	12	-	12	-	12	-	12	-	125	105-92
2	B-NM4 65/160BE-CE	80	65	100	455	160	200	288	125	95	280	212	62	-	65	14	-	150	172	315	15	60-60
	B-NM4 65/160AE				545	200	306	306	250	230	190	-	-	60	12	-	12	-	12	-	350	68

mm						
DN	C	K	D	Agujeros 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

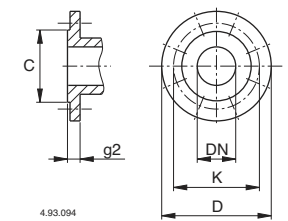
Dimensiones y pesos



Ejecución normal

Figura	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	78											
	NM4 40/25A/A				525			340																125	15	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	140	153	14	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																125	15	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	14	150	172	15	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			340																125	15	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																160	120	360	280	60	80	18	175	190	15	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			410																160	120	400	315	75	80	18	220	220	20	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			125																95	320	250	62	65	14	165	193	15	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																125	95	345	280	60	65	14	170	194	15	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																160	120	400	315	60	80	18	191	210	20	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	216	6	336													
	NM4 80/400BE				905				435	350	279	-	25	78	14	270	268	6	365															
NM4 80/400AE	970				455				396	318	-	84	18	290	233	6	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																160	120	360	280	60	80	18	205	233	20	109
	NM4 100/25BE				685			225																280	410	160	120	400	315	75	-	80	18	-
NM4 100/25AE	735	20	152																															
5	NM4 100/315BE-CE	125	100	140	865	260	315	466	435	395	314	254	-	20	74	14	-	230	250	210	6	261-240												
	NM4 100/315AE				880				432	350	279	-	25	78	14	270	268	6	313															
5	NM4 100/400CE	125	100	140	920	290	355	-	435	395	350	279	-	20	78	14	270	268	221	6	368													
	NM4 100/400AE-BE				980				455	396	318	-	25	84	18	290	233	6	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																			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	216	6	331													
	NM4 125/315BE				920				435	350	279	-	25	78	14	270	247	6	365															
	NM4 125/315AE				980				455	396	318	-	84	18	290	233	6	414																
	NM4 125/400CE	150	125	140	980	300	400	-	455	396	318	300	-	25	84	18	290	305	233	6	459													
	NM4 125/400AE-BE				1045				325	440	356	-	25	84	18	330	274	8	585-550															
	5	NM4 150/315DE	200	150	160	900	290	400	-	435	395	371	300	-	20	78	14	270	260	229	6	363												
		NM4 150/315CE				940				435	371	300	-	20	78	14	270	260	6	372														
		NM4 150/315AE-BE				1000				455	396	318	-	25	84	18	290	233	6	437-424														
	5	NM4 150/400BE-CE	200	150	160	1065	325	450	-	540	461	440	356	-	25	92	18	330	295	274	8	590-555												
NM4 150/400AE		1145				320				500	406	-	45	104	22	355	290	8	614															

Bridas EN 1092-2



mm						
DN	C	K	D	Agujeros		g2
				Nº	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