



### Esecuzione

Elettropompe centrifughe monoblocco con accoppiamento diretto motore-pompa e albero unico fino a 15 kW, costruzione per motori normalizzati IEC con cuscinetto reggispinta integrato da 18,5 a 75 kW (costruzione Stub-shaft).

Corpo pompa con bocca di aspirazione assiale e bocca di mandata radiale in alto, con dimensioni principali e prestazioni secondo EN 733 con altre grandezze aggiunte a completamento.

NM4(S): versione con corpo pompa e raccordo in ghisa.

B-NM(S)4: versione con corpo pompa e raccordo/coperchio in bronzo.

Le pompe in bronzo vengono fornite completamente verniciate.

#### Bocche

Grandezze	Bocche
NM4 25/...	Filettate ISO 228
da NM4 32/16 a NMS4 150/400	Flange PN 10, EN 1092-2

Controflange a richiesta.

Grandezze	Flange
da NM4 32/16 a NM4 50/25	Flange filettate EN 1092-1, PN 16
da NM4 65/16 a NMS4 150/400	Flange da saldare a sovrapposizione EN 1092-1, PN 10

### Impieghi

- Per liquidi puliti senza parti abrasive, non aggressivi per i materiali della pompa (con parti solide fino a 0,2% max).
- Per l'approvvigionamento d'acqua.
- Per impianti di riscaldamento, condizionamento, raffreddamento e circolazione.
- Per applicazioni civili e industriali.
- Quando è richiesto un funzionamento con rumorosità ridotta.
- Per irrigazione.

### Limiti d'impiego

Temperatura liquido: da -10 °C a +90 °C.

Temperatura ambiente fino a 40 °C.

Altezza di aspirazione manometrica fino a 7 m.

Pressione finale massima ammessa nel corpo pompa : 10 bar.

Servizio continuo.

### Motore

Motore ad induzione a 4 poli, 50 Hz (n = 1450 1/min).

**NM4, NMS4:** trifase 230/400 V ± 10%, fino a 3 kW;

400/690 V ± 10%, da 4 a 75 kW;

Isolamento classe F. Protezione IP 54.

**Classe alta efficienza IE2 per motori trifasi da 0,75 kW.**

Esecuzione secondo EN 60034-1; EN 60034-30.

### Esecuzioni speciali a richiesta

- Altre tensioni. - Frequenza 60 Hz (vedere catalogo 60 Hz).

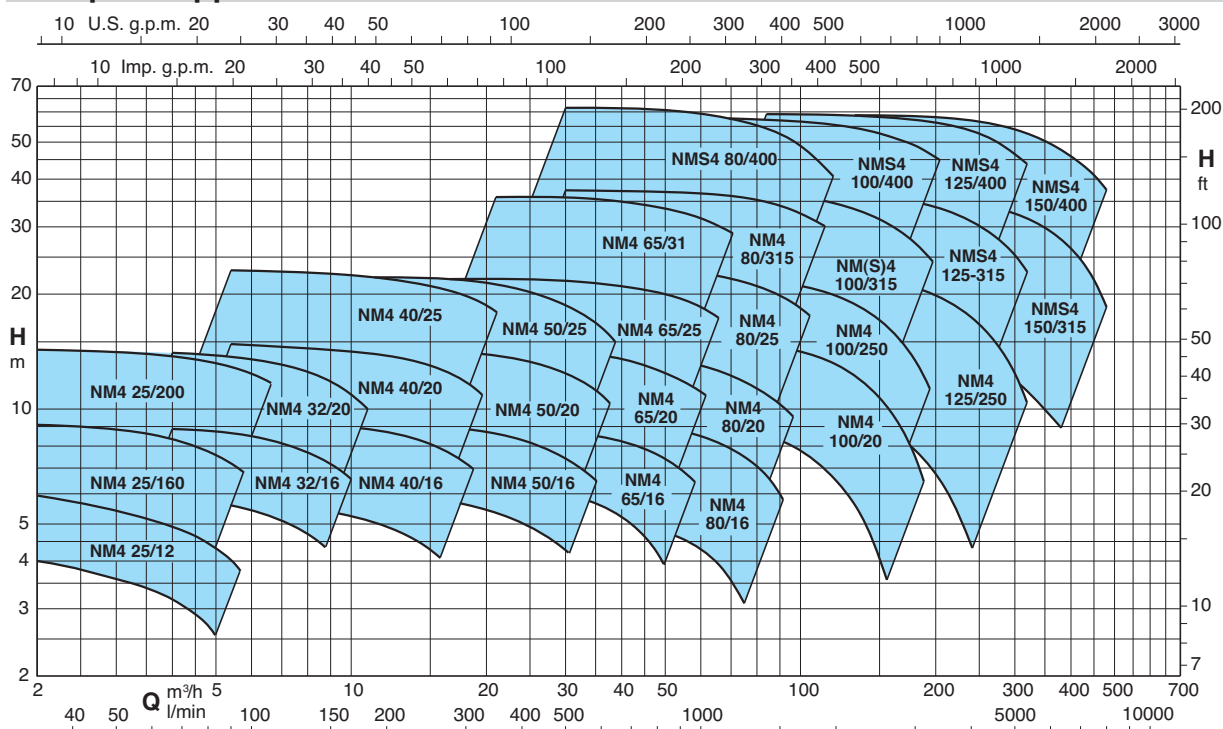
- Protezione IP 55. - Tenuta meccanica speciale.

- Per liquido o ambiente con temperatura più alta o più bassa.

### Materiali

Componenti	NM4, NMS4	B-NM4, B-NMS4
Corpo pompa	Ghisa	Bronzo
Raccordo NM4	GJL 200 EN 1561	G-Cu Sn 10 EN 1982
Coperchio del corpo per NMS4		
Raccordo NMS4	Ghisa GJL 200 EN 1561	
Girante	Ghisa	Bronzo
	GJL 200 EN 1561	G-Cu Sn 10 EN 1982
	Ottone P-Cu Zn 40 Pb 2 UNI 5705	
	Per NM4 25/12 - 25/160 - 25/200 - 32/16 - 32/20 - 40/20	
Albero	Acciaio AISI 303 fino a 1,1 kW	Acciaio al Cr-Ni-Mo
	Acciaio AISI 430 da 1,5 kW a 75 kW	AISI 316
Tenuta meccanica	Carbone - ceramica - NBR	
Controflange	Acciaio Fe 430B UNI 7070	

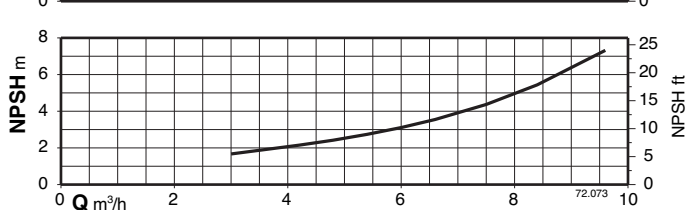
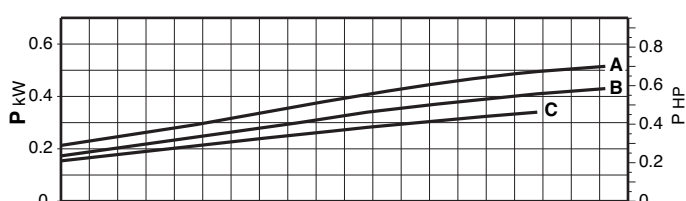
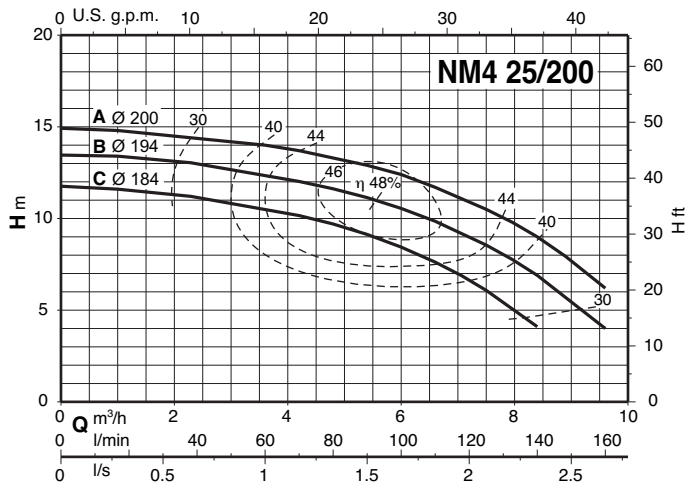
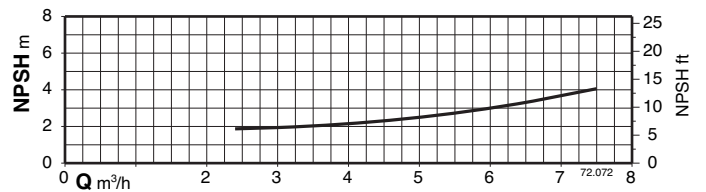
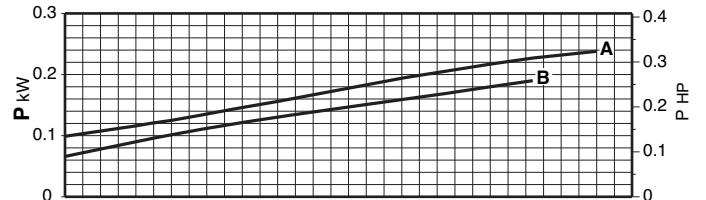
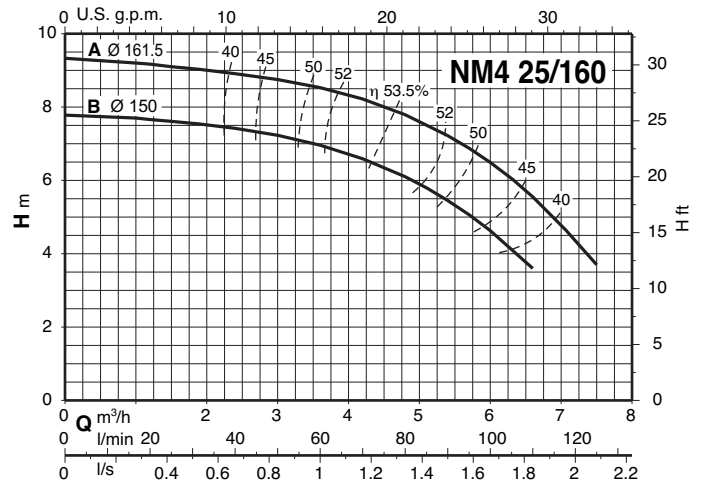
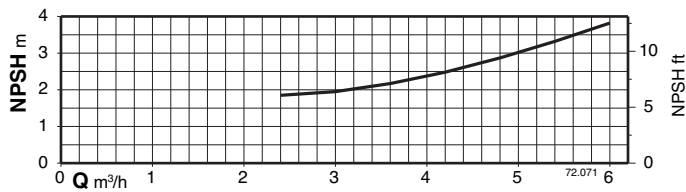
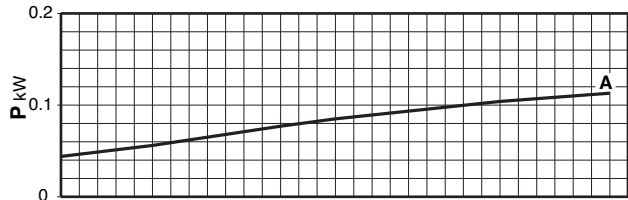
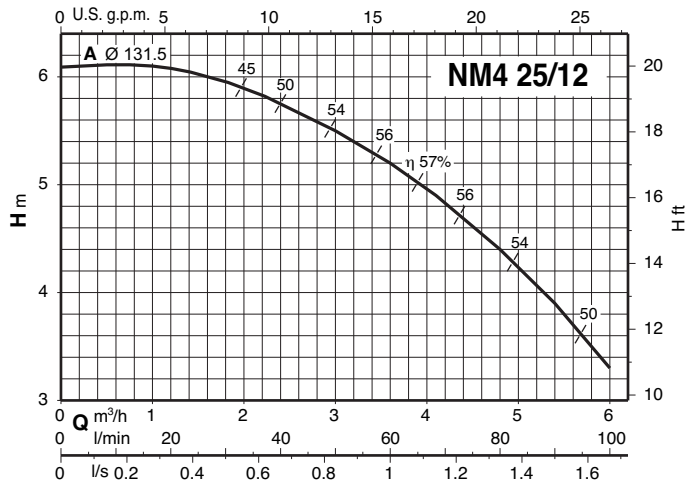
### Campo di applicazione n ≈ 1450 1/min



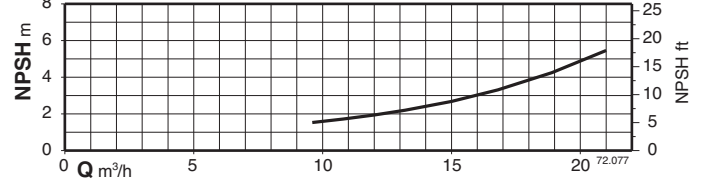
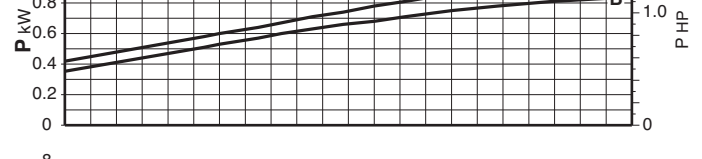
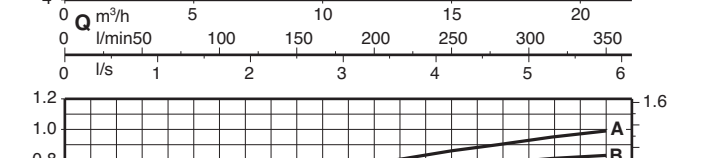
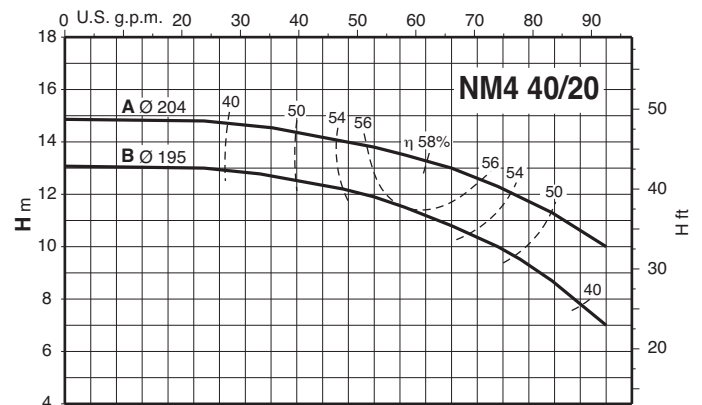
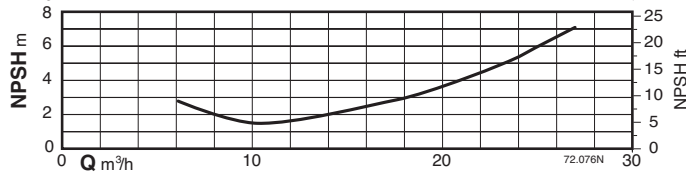
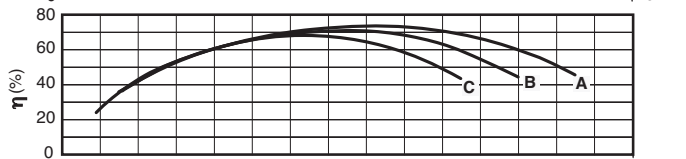
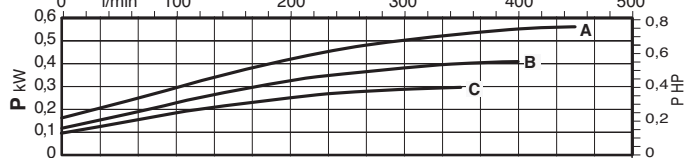
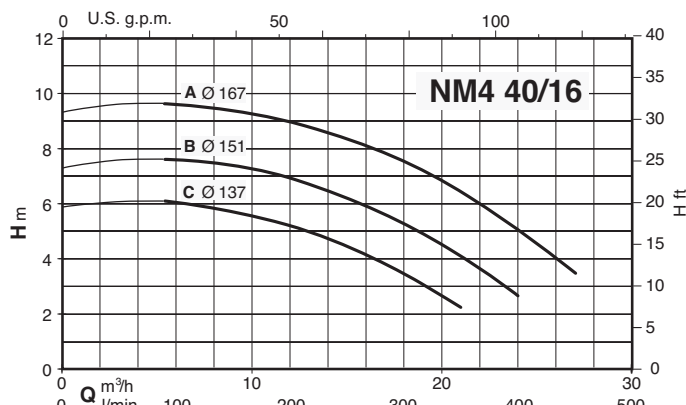
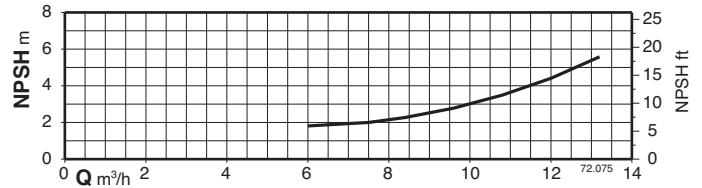
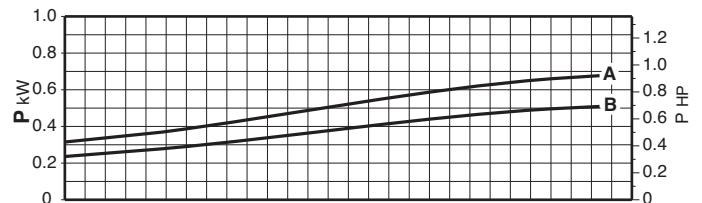
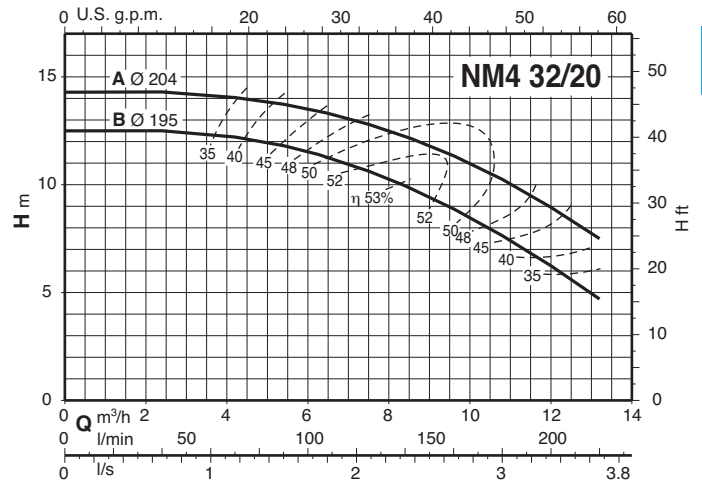
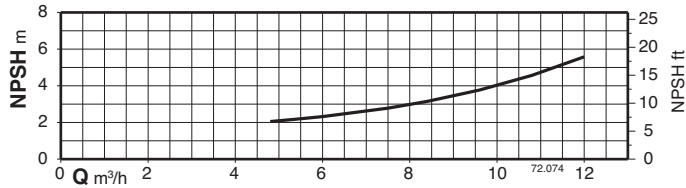
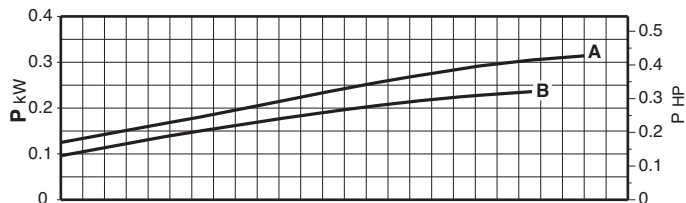
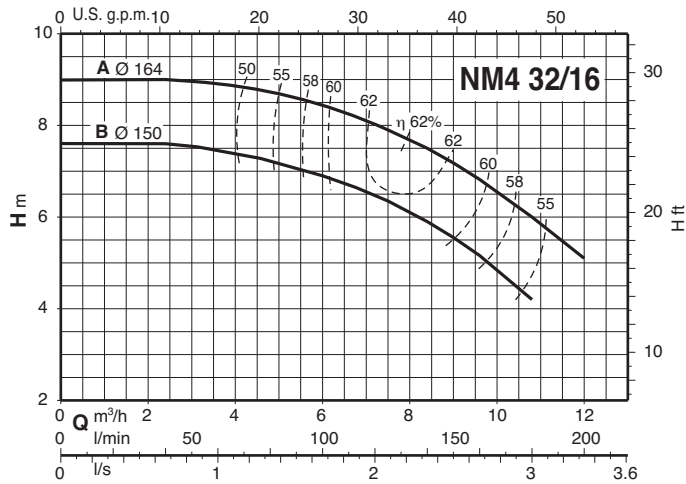




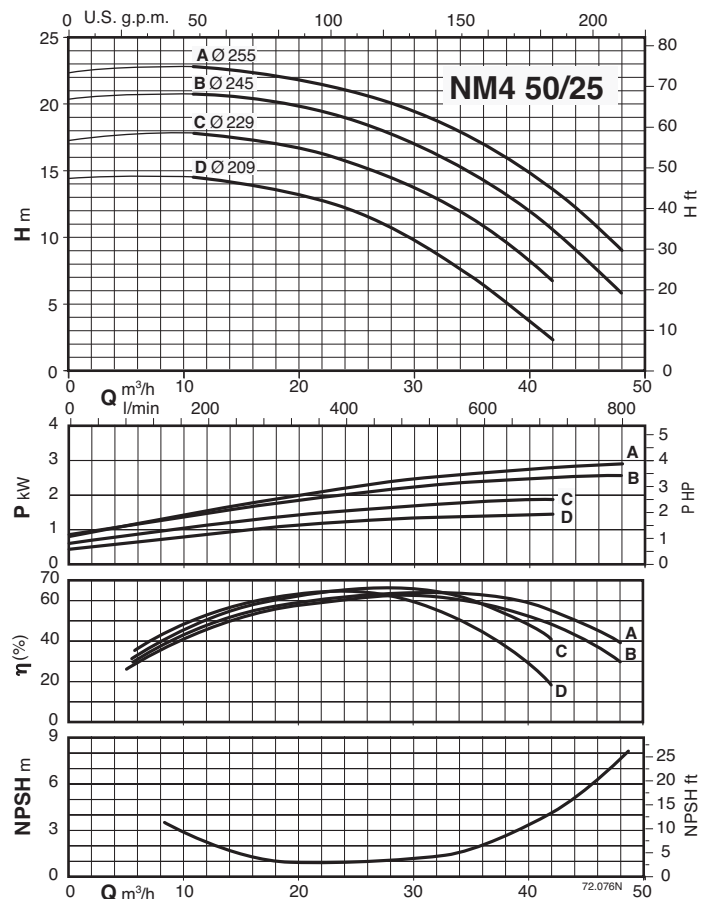
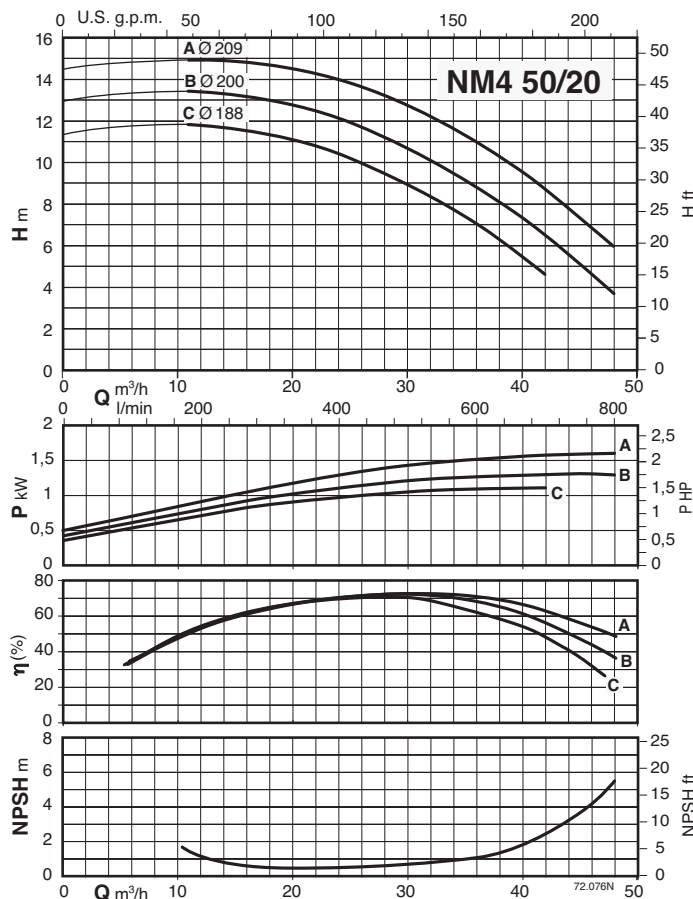
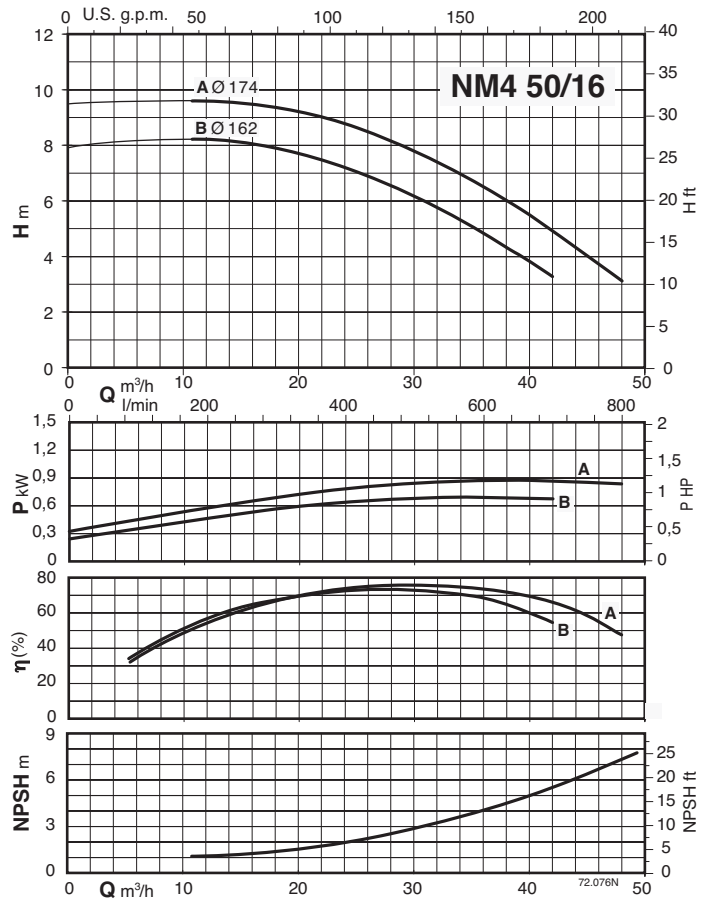
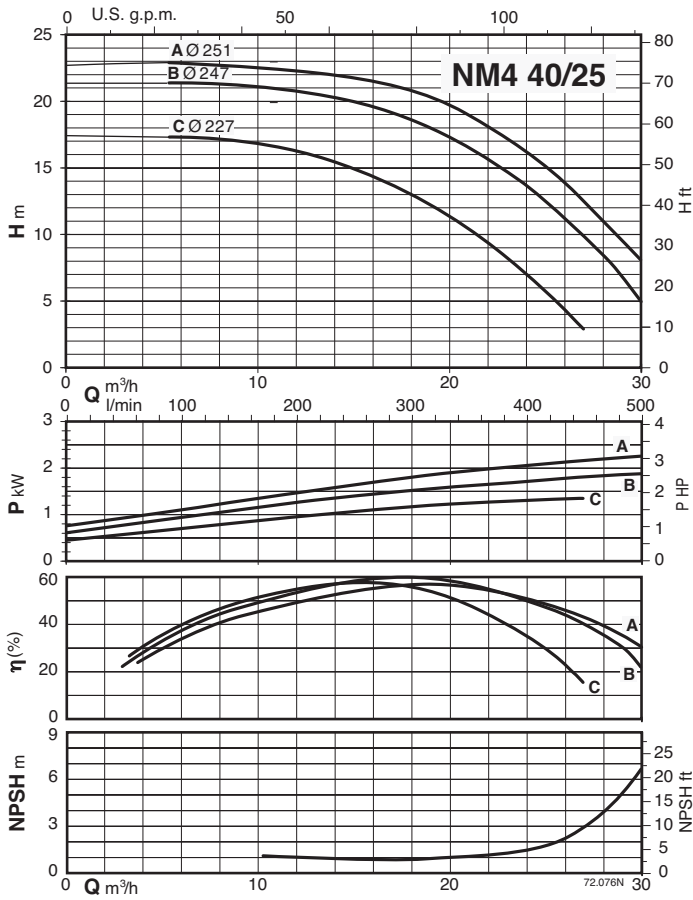
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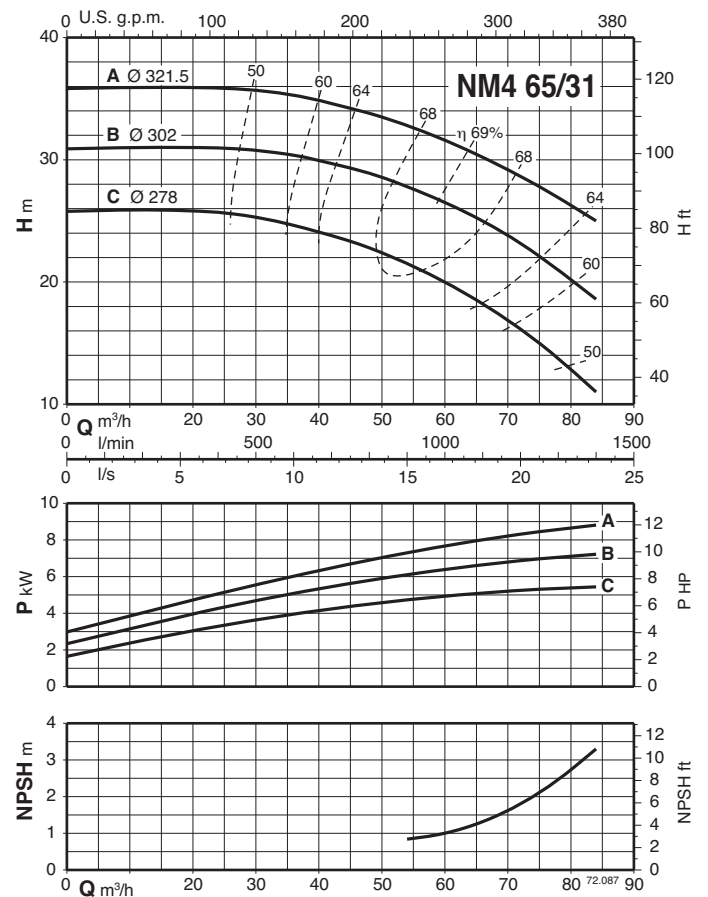
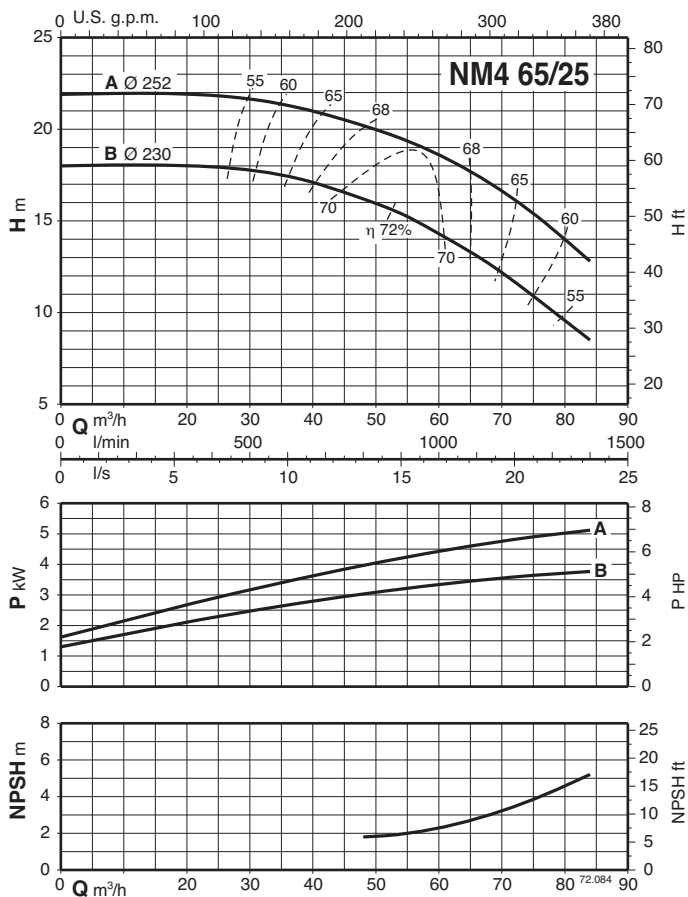
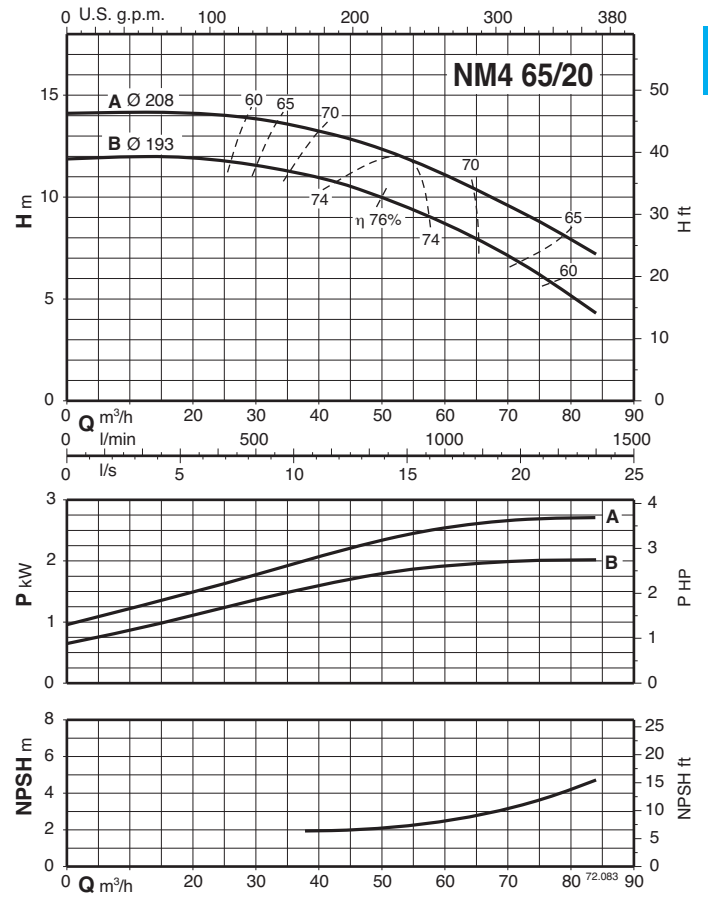
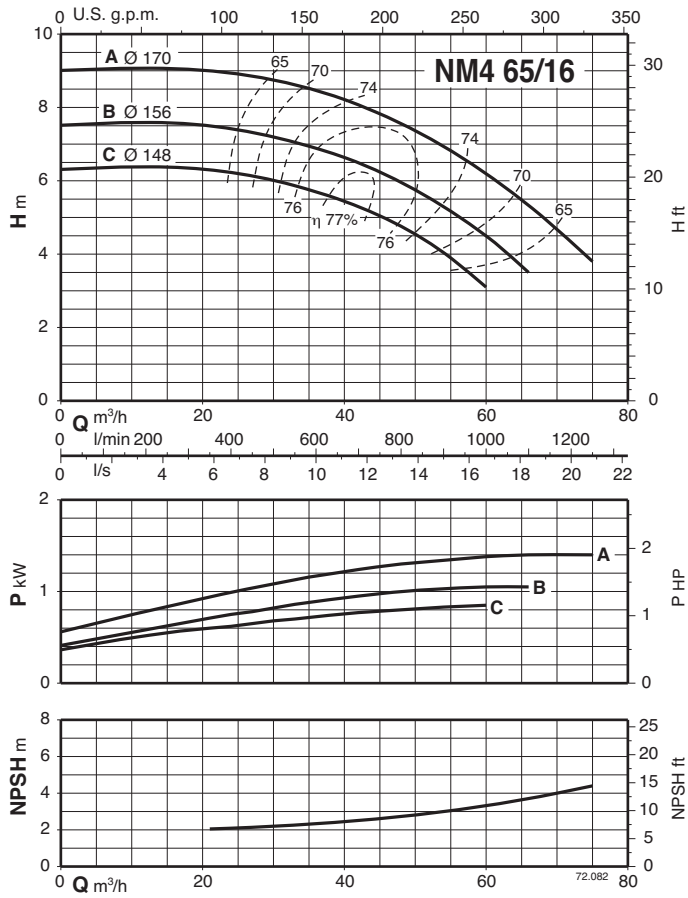
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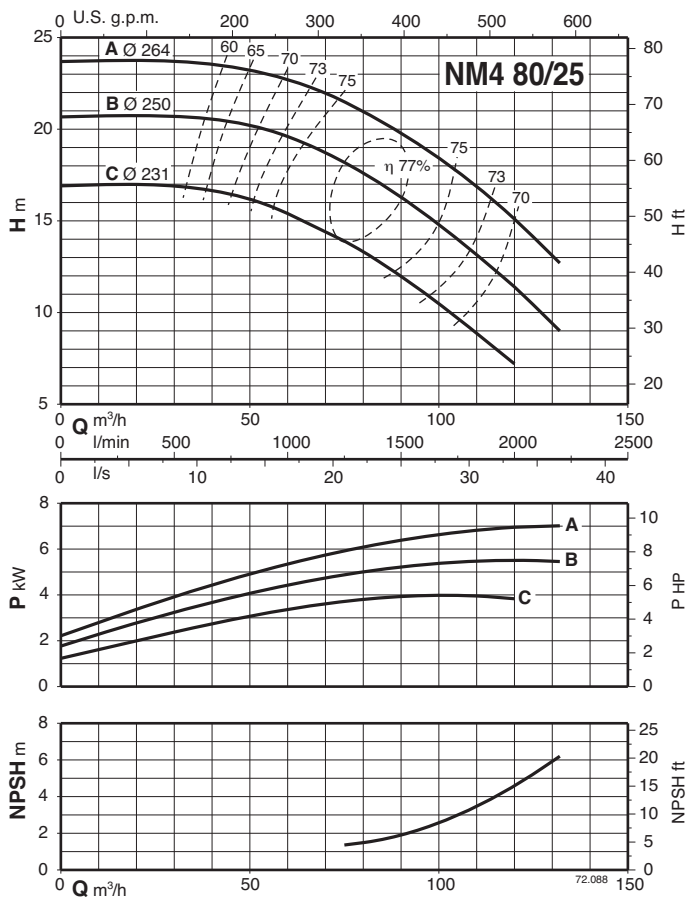
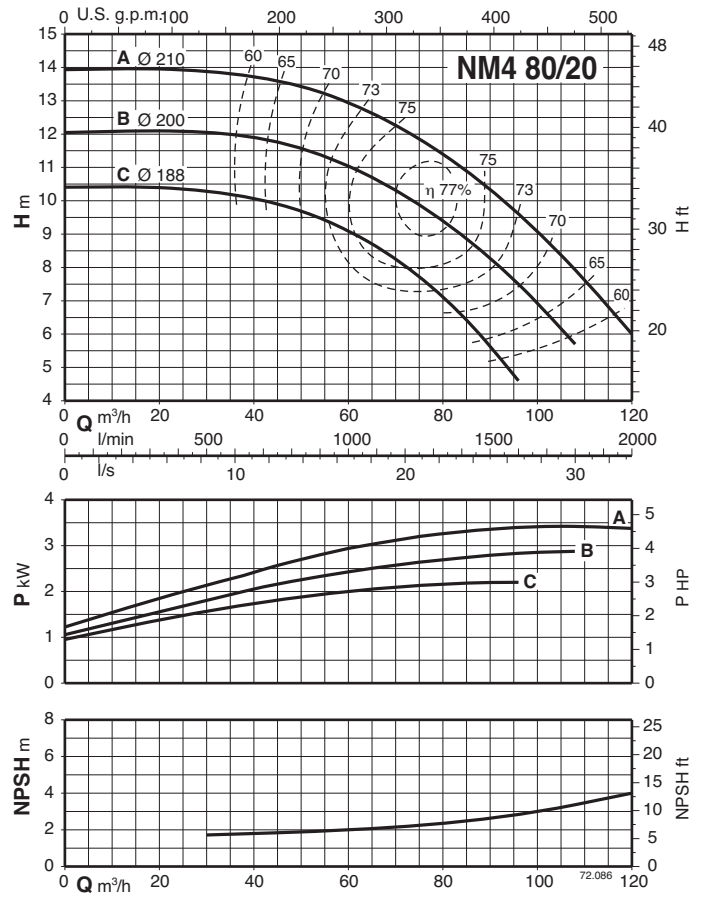
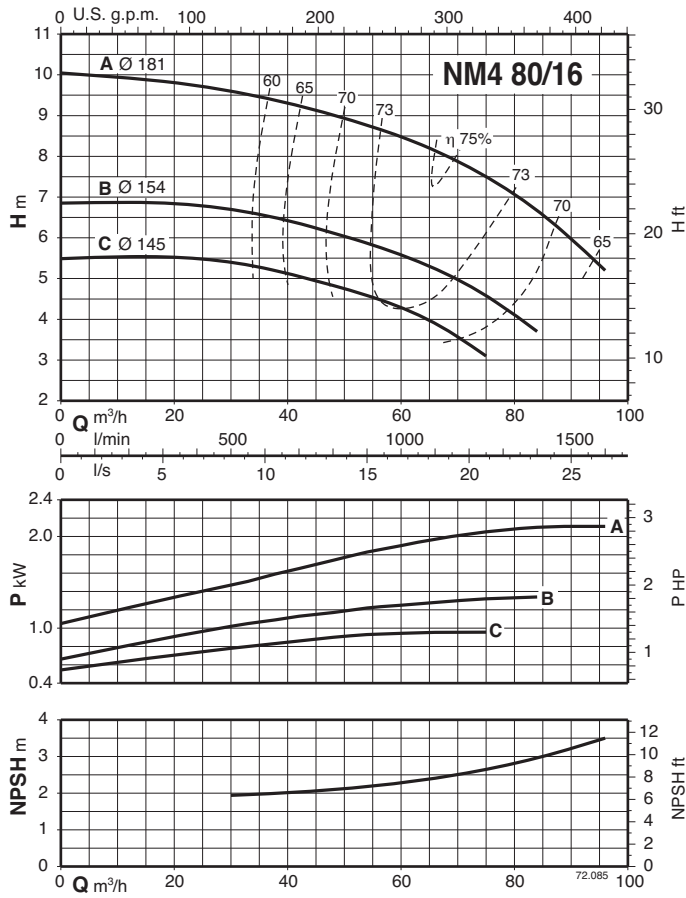
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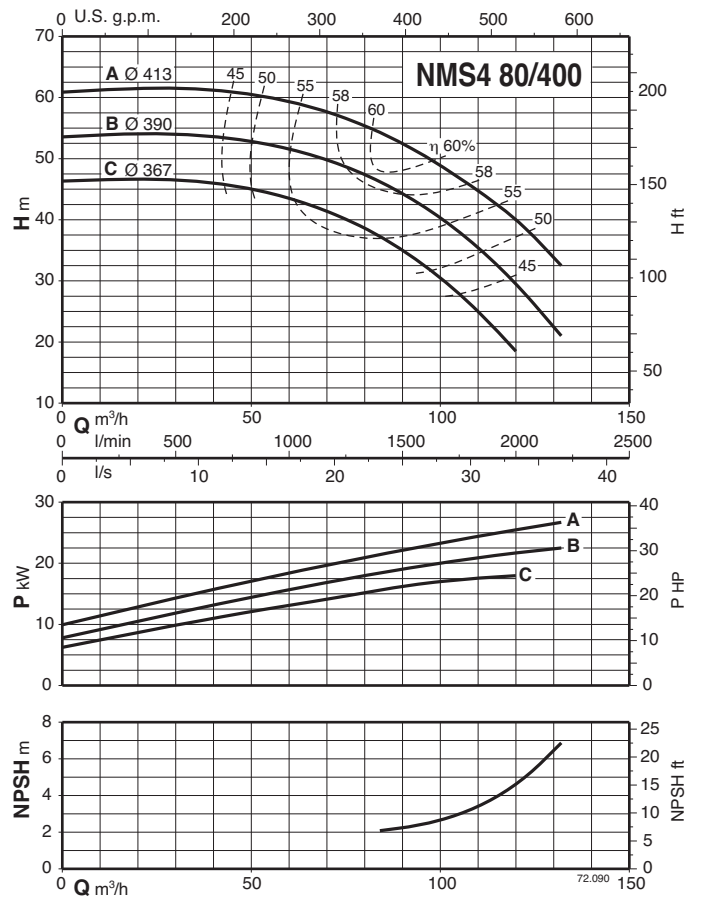
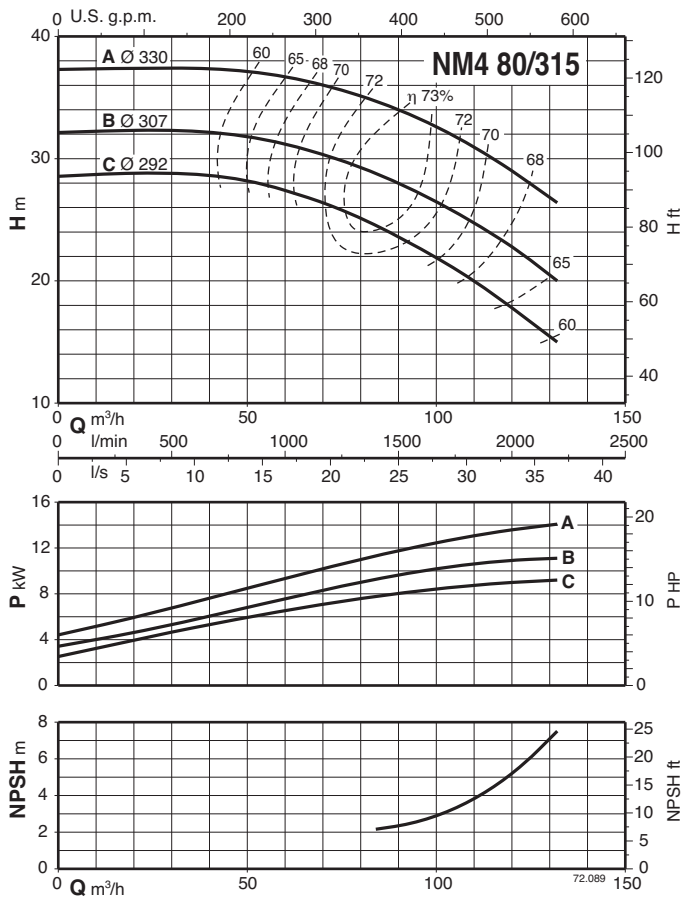
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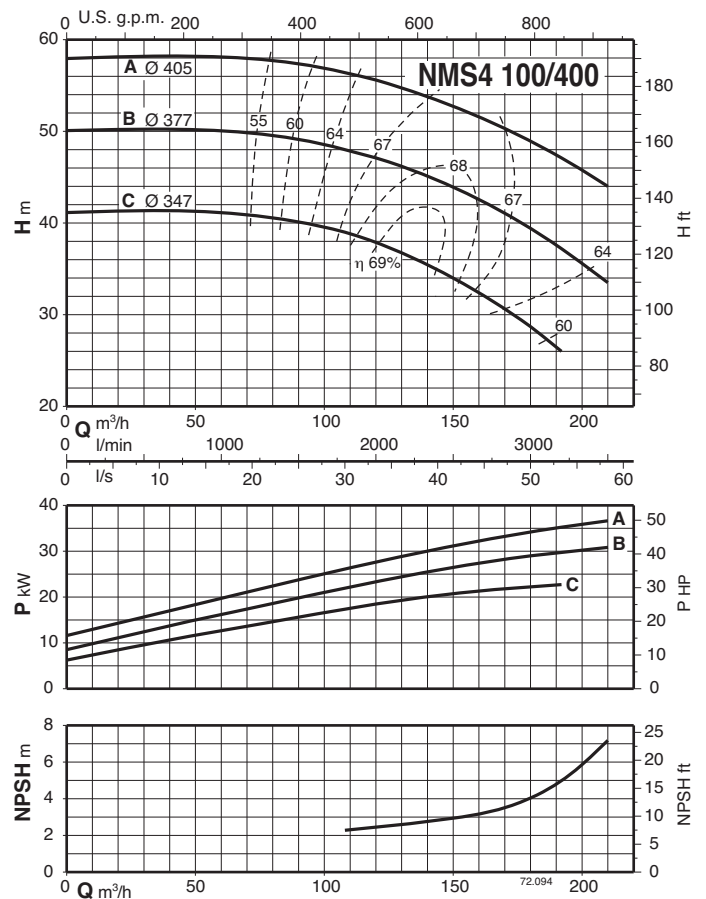
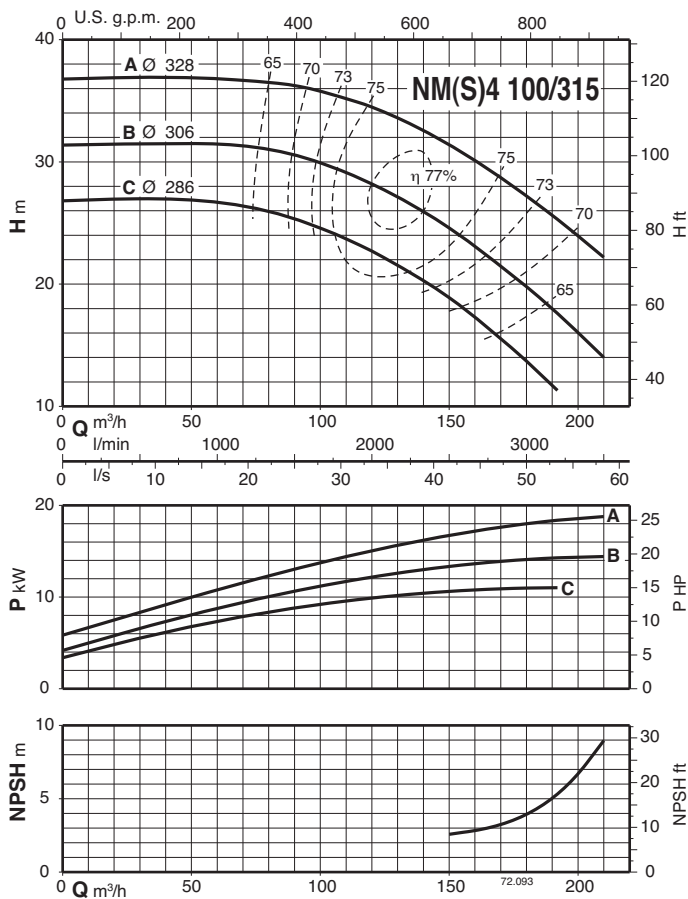
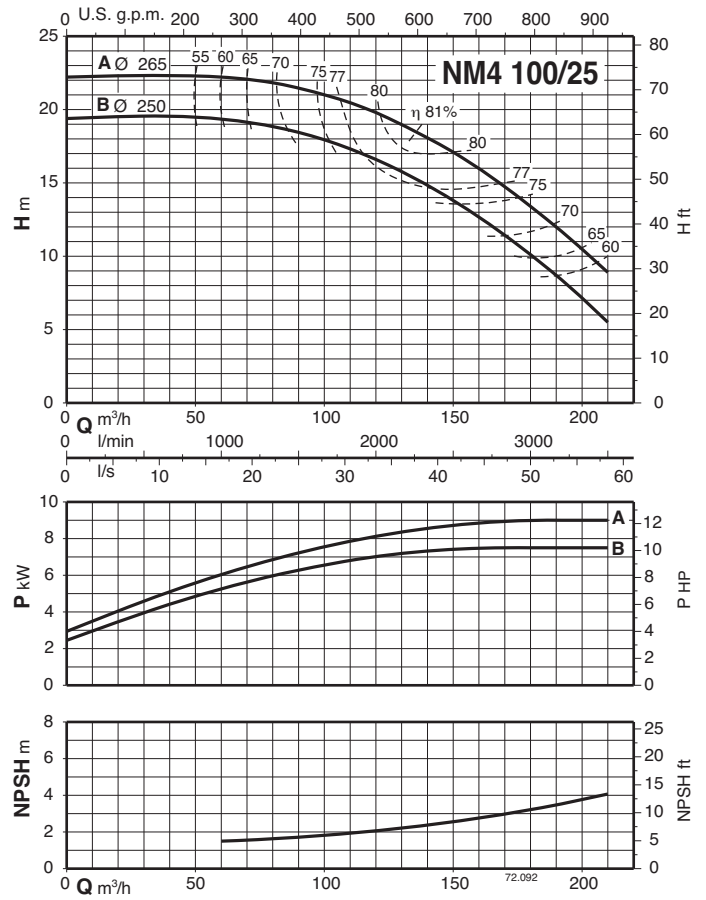
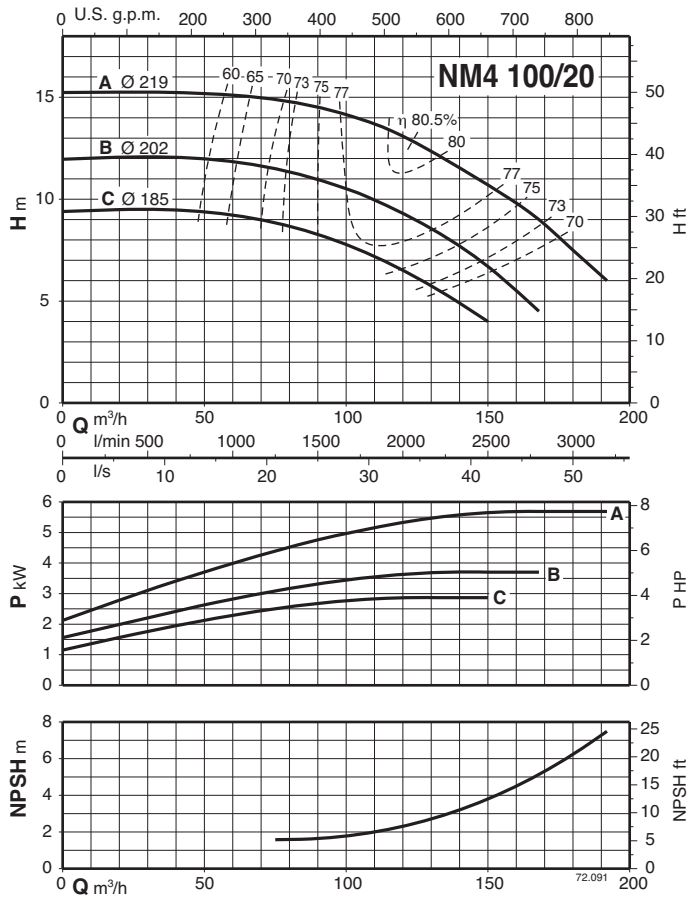
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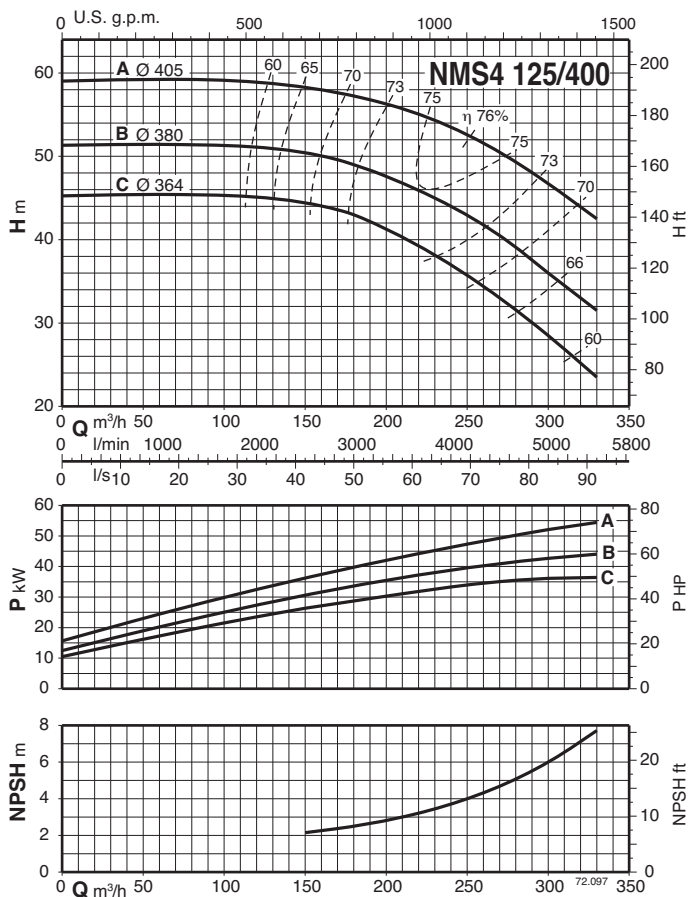
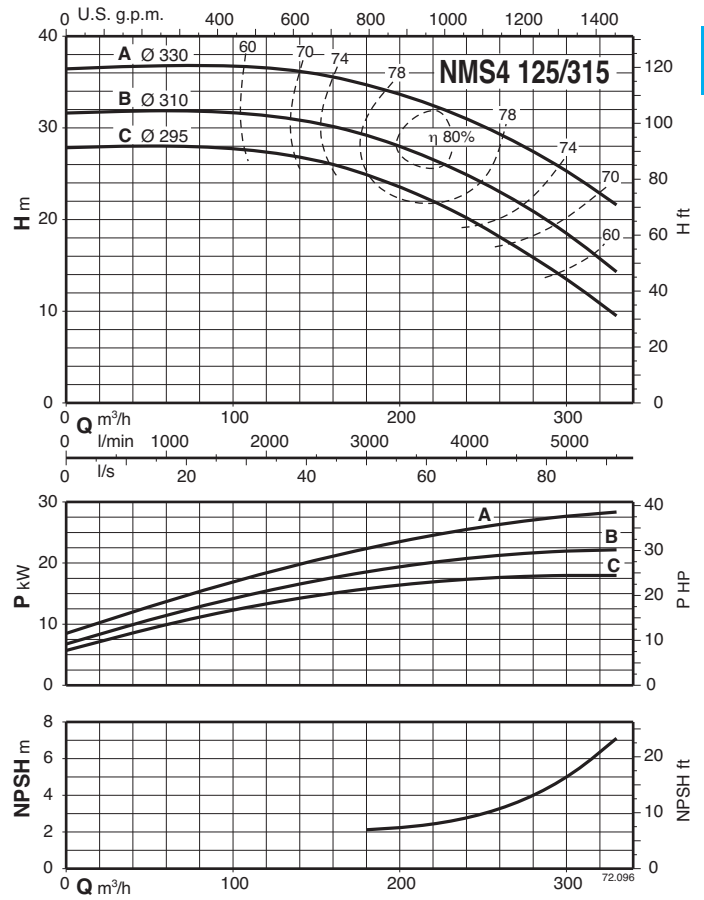
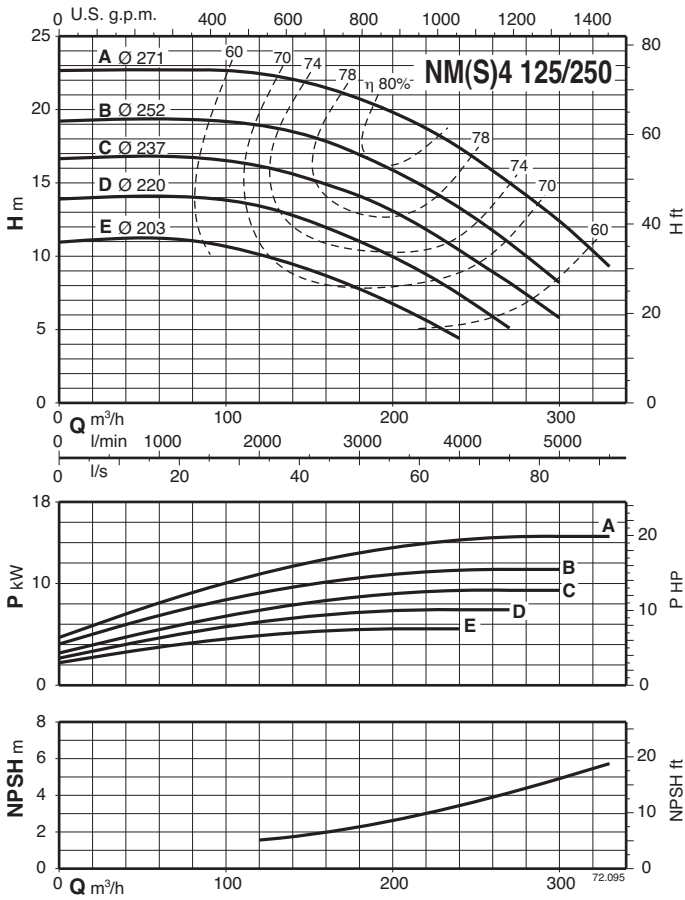
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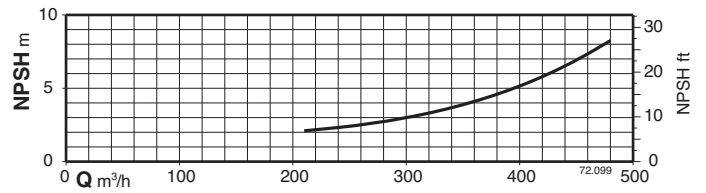
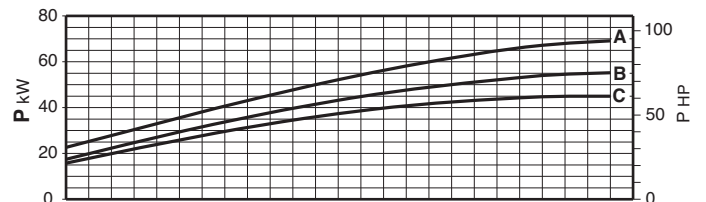
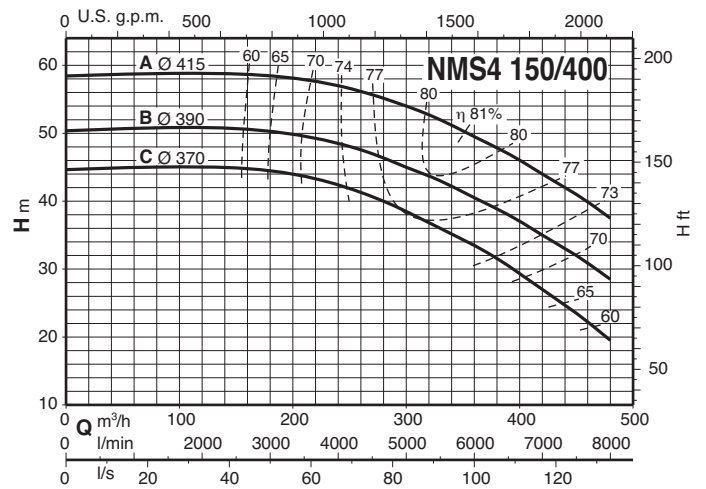
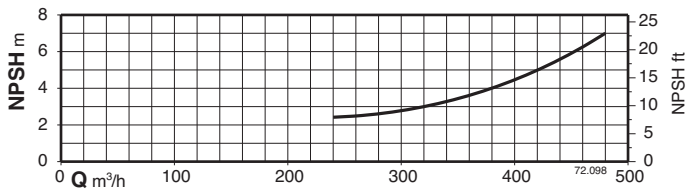
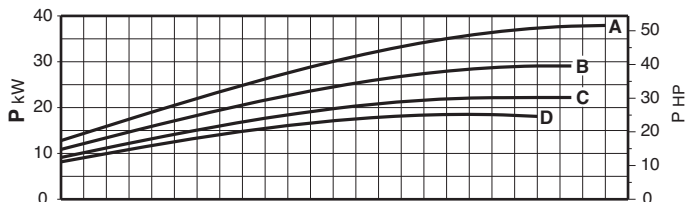
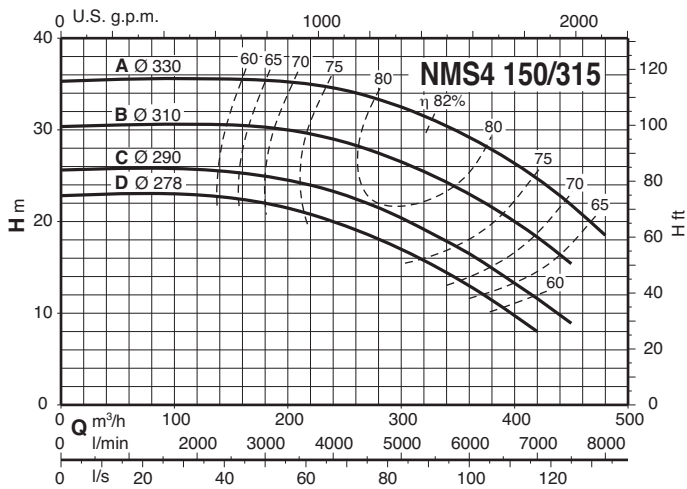
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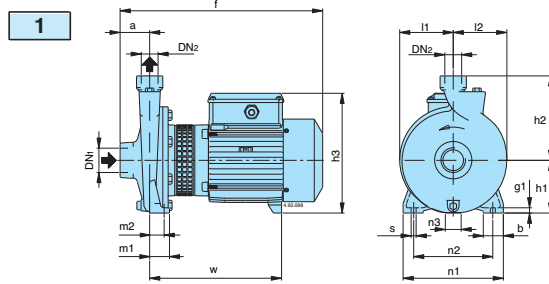
### Curve caratteristiche $n \approx 1450$ 1/min



### Curve caratteristiche $n \approx 1450$ 1/min



### Dimensioni e pesi



Esecuzione normale

Figura	NM4	DN1	DN2	mm																kg
				ISO 228	a	f	h1	h2	h3	m1	m2	n1	n2	n3	b	s	l1	l2	w	
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 25/200A/A-BE-CE			63	385	125	180	253	45	32,5	245	200	49	45	11,5	125	125	250	11	27-23-21,5

Esecuzioni in bronzo B-NM4

Figura	B-NM4	DN1	DN2	mm																kg
				ISO 228	a	f	h1	h2	h3	m1	m2	n1	n2	n3	b	s	l1	l2	w	
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 25/200A/A-BE-CE			63	400	125	180	253	45	32,5	245	200	49	45	11,5	125	125	250	11	29-25-23

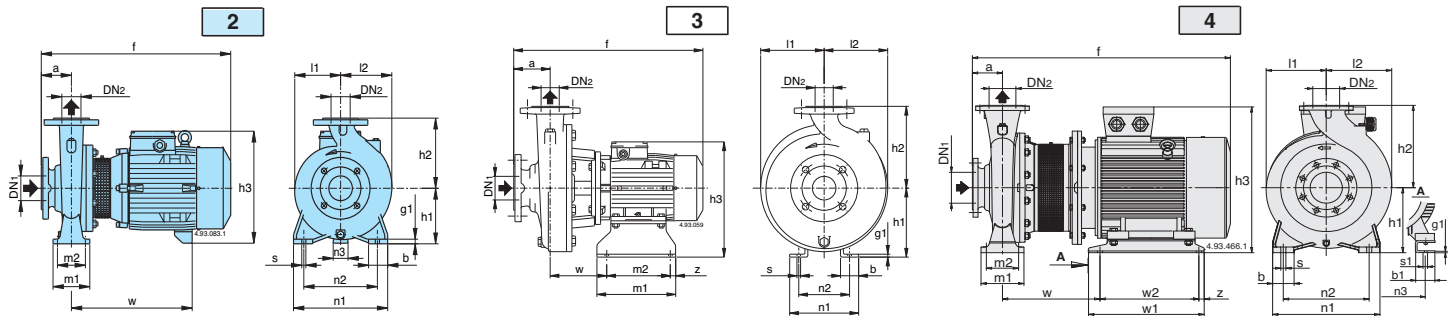
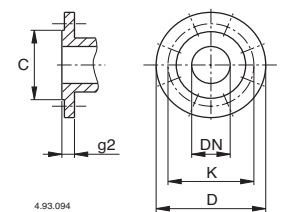


Figura	B-NM4	DN1	DN2	mm																	kg	
				a	f	h1	h2	h3	m1	m2	n1	n2	n3	z	b	s	l1	l2	w	g1		
2	B-NM4 32/16A-B	50	32	80	410	132	160	260	100	70	240	190	47	-	50	14	-	120	120	255	12	38-38
	B-NM4 32/20A/A-B	50	32	80	410	160	180	288	100	70	240	190	62	-	50	14	-	140	140	255	12	45-41
	B-NM4 40/16A/A-B-C	65	40	80	410	132	160	260	100	70	240	190	47	-	50	14	-	119	119	255	12	43-40-38
	B-NM4 40/20A/A-B/A	65	40	100	470	160	180	288	100	70	265	212	62	-	50	14	-	140	140	295	12	55-55
3	B-NM4 40/25/B-B-C/B	65	40	100	535	190	225	318	205	175	190	140	-	15	54	10	-	175	156	125	6	73-73
	560				350			280	250	230	190	105-92										
2	B-NM4 50/16A/A-B/A	65	50	100	470	160	180	288	100	70	265	212	62	-	50	14	-	127	141	295	12	55-55
3	B-NM4 50/25/C/B-D/A	65	50	100	535	190	225	318	205	175	190	140	-	15	54	10	-	175	156	125	6	79,5-79,5
	560				350			280	250	230	190	105-92										
2	B-NM4 65/16B/A-C/A	80	65	100	470	160	200	288	125	95	280	212	62	-	65	14	-	150	172	295	15	63-63
	495				306			300												71		

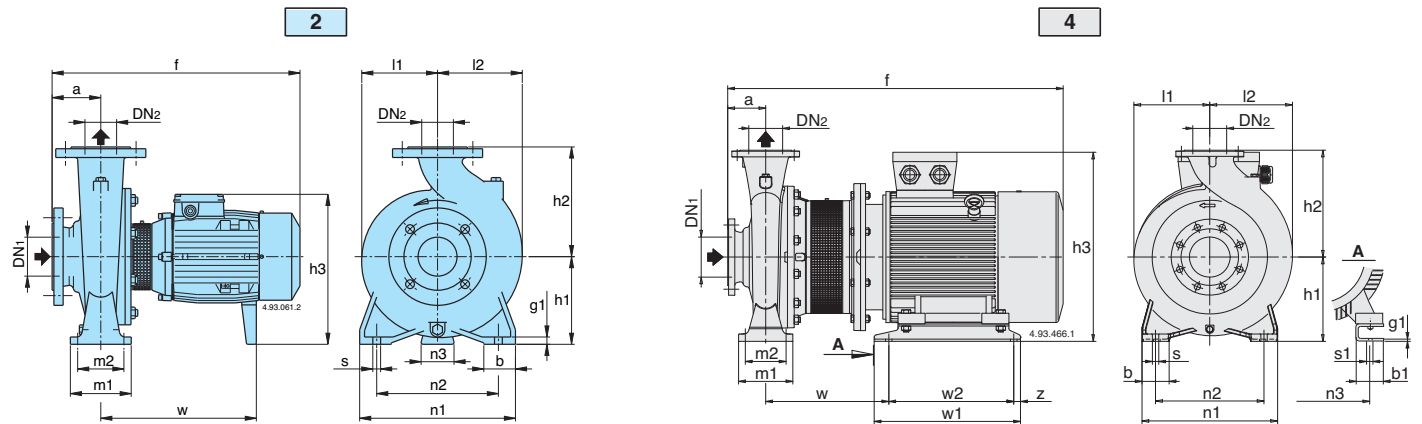
Flange EN 1092-2



mm						
DN	C	K	D	Fori		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

Figura	B-NMS4	DN1	DN2	mm																				kg													
				a	f	h1	h2	h3	m1	m2	n1	n2	n3	z	b	b1	s	s1	l1	l2	w	w1	w2		g1												
4	B-NMS4 80/315A-B	100	80	125	948	250	315	455	160	80	400	315	254	20	80	60	80	15	220	232	271	395	435	6													
	B-NMS4 80/400B-C	125	80	125	1025	280	355	538	160	80	435	355	318	25	80	70	80	15	268	268	334	455	540	6													
	B-NMS4 80/400A				1025																				580	640	254	20	80	60	80	15	230	250	271	395	435
	B-NMS4 100/315B-C	125	100	140	963	250	315	455	160	100	400	315	254	20	80	60	80	15	230	250	312	382	432	6													
	B-NMS4 100/315A				1035																				508	640	279	25	70	70	15	230	250	312	382	432	6
	B-NMS4 100/400C	125	100	140	1040	280	355	538	200	100	500	400	254	20	100	83	100	19	268	280	334	455	540	6													
	B-NMS4 100/400B				1040																				580	640	279	25	70	70	15	268	280	334	455	540	6
	B-NMS4 100/400A				1199																				605	640	356	25	103	103	19	268	280	334	455	540	6
	B-NMS4 125/250A-B				150																				125	140	951	250	355	455	160	125	400	315	254	20	80
	B-NMS4 125/315B-C	150	125	140	1040	280	355	538	200	125	500	400	279	25	100	70	83	100	15	247	278	318	435	520	6												
	B-NMS4 125/315A				1040																					580	640	318	25	103	103	19	247	278	318	435	520
	B-NMS4 125/400B-C	150	125	140	1199	315	400	538	200	125	500	400	356	25	100	103	103	19	247	278	334	455	540	6													
	B-NMS4 125/400A				1237																				707	640	356	25	103	103	19	247	278	334	455	540	6
	B-NMS4 150/315C-D	200	150	160	1060	280	400	538	200	150	550	450	279	25	100	83	100	19	260	298	434	455	540	6													
	B-NMS4 150/315B				1060																				580	640	318	25	103	103	19	260	298	434	455	540	6
	B-NMS4 150/315A				1219																				605	640	356	25	103	103	19	260	298	434	455	540	6
B-NMS4 150/400C	1219				640																				640	356	25	103	103	19	260	298	434	455	540	6	
B-NMS4 150/400B	200	150	160	1257	315	450	707	200	150	550	450	406	25	100	100	24	295	328	454	461	540	8															
B-NMS4 150/400A				1330																			747	640	356	25	103	103	19	295	328	454	461	540	8		

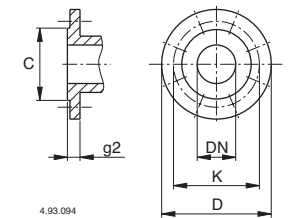
### Dimensioni e pesi



Esecuzione normale

Flange EN 1092-2

Figura	NM4	mm																			kg			
		DN1	DN2	a	f	h1	h2	h3	m1	m2	n1	n2	n3	z	b	s	l	l1	l2	w		g1		
2	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 32/20A/A-BE	50	32	80	410	160	180	288	100	70	240	190	62	-	50	14	-	140	140	255	12	38-34,5		
	NM4 40/16A/B-B/A-C/A	65	40	80	410	132	160	268	100	70	240	190	47	-	50	14	-	119	119	255	12	37-33-31		
	NM4 40/20A/A-B/A	65	40	100	470	160	180	288	100	70	265	212	62	-	50	14	-	140	140	295	12	41-40,5		
	NM4 40/25B/B-C/B	65	40	100	495	180	225	308	125	95	320	250	60	-	65	14	-	175	175	300	330	15	66,5-62	
	NM4 40/25A/B				78																			
	NM4 50/16A/B-B/B	65	50	100	470	160	180	288	100	70	265	212	62	-	50	14	-	127	141	295	12	40-39,5		
	NM4 50/20C/B	65	50	100	480	160	200	288	100	70	265	212	62	60	-	50	14	-	140	153	305	310	14	44,5
	NM4 50/20A/B-B/B				57-52,5																			
	NM4 50/25C/B-D/A	65	50	100	490	180	225	308	125	95	320	250	60	-	65	14	-	175	175	300	330	15	68-68	
	NM4 50/25A/B-B/B				85,5-77,5																			
	NM4 65/16B/A-C/A	80	65	100	470	160	200	288	125	95	280	212	62	60	-	65	14	-	150	172	255	300	15	48-48
	NM4 65/16A/A				54,5																			
	NM4 65/20B/A	80	65	100	505	180	225	308	125	95	320	250	60	-	65	14	-	155	175	310	330	15	61	
	NM4 65/20A/A				73,5																			
	NM4 65/25B/A	80	65	100	540	200	250	360	160	120	360	280	60	-	80	18	-	175	190	345	415	18	97	
	NM4 65/25A/A				116																			
	NM4 65/31B/A-C/A	80	65	125	670	225	280	410	160	120	400	315	75	-	80	18	-	220	220	455	465	20	164-153	
	NM4 65/31A/A				176																			
	NM4 80/16C/A	100	80	125	495	180	225	288	125	95	320	250	62	60	-	65	14	-	165	193	295	300	15	53
NM4 80/16A/A-B/A	65,5-61																							
NM4 80/20C/A	100	80	125	520	180	250	308	125	95	345	280	60	-	65	14	-	170	194	320	340	15	74,5		
NM4 80/20A/A-B/A				91-82																				
NM4 80/25C/A	100	80	125	565	200	280	360	160	120	400	315	60	-	80	18	-	191	210	335	415	20	102		
NM4 80/25A/A-B/A				135-124																				
NM4 80/31C/A	100	80	125	720	250	315	435	160	120	400	315	90	-	80	18	-	220	232	465	20	181			
3	NM4 80/315A/A-B/A	100	80	125	850	260	315	466	435	395	314	254	-	20	74	14	-	220	232	210	6	269-248		
	NM4 100/20B/A-C/A	125	100	125	565	200	280	360	160	120	360	280	60	-	80	18	-	180	212	330	410	20	99-90	
NM4 100/20A/A	109																							
2	NM4 100/25B/A	125	100	140	685	225	280	410	160	120	400	315	75	-	80	18	-	205	233	415	465	20	143	
	NM4 100/25A/A				152																			
3	NM4 100/315B/A-C/A	125	100	140	865	260	315	466	435	395	314	254	-	20	74	14	-	230	250	210	6	280-261		
2	NM4 125/25D/A-E/A	150	125	140	685	250	355	435	160	120	400	315	90	-	80	18	-	235	268	415	465	20	161-149	
	NM4 125/25C/A				173																			
3	NM4 125/250A/A-B/A	150	125	140	865	260	355	466	435	395	314	254	-	20	74	14	-	235	268	210	6	261-243		



mm						
DN	C	K	D	Fori		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

Figura	NMS4	mm																				kg			
		DN1	DN2	a	f	h1	h2	h3	m1	m2	n1	n2	n3	z	b	b1	s	s1	l1	l2	w		w1	w2	g1
4	NMS4 80/400B-C	125	80	125	1025	280	355	538	160	80	435	355	318	25	80	70	80	15	268	268	318	435	520	6	
	NMS4 80/400A				580																				334
	NMS4 100/315A	125	100	140	1035	250	315	508	160	100	400	315	279	25	80	70	80	15	230	250	312	382	432	6	
	NMS4 100/400C				1040																				319
	NMS4 100/400B	125	100	140	1040	280	355	580	200	100	500	400	318	25	100	83	100	19	268	280	334	455	540	6	
	NMS4 100/400A				1199																				385
	NMS4 125/315B-C	150	125	140	1040	280	355	538	200	125	500	400	279	25	100	70	83	100	15	247	278	318	435	520	6
	NMS4 125/315A				1040																				
	NMS4 125/400B-C	150	125	140	1199	315	400	640	200	125	500	400	356	25	100	103	100	24	280	305	385	461	540	8	
	NMS4 125/400A				1237																				454
	NMS4 150/315C-D	200	150	160	1060	280	400	580	200	150	550	450	279	25	100	70	83	100	19	260	298	318	435	520	6
	NMS4 150/315B				1219																				
	NMS4 150/400C	200	150	160	1219	315	450	707	200	150	550	450	356	25	100	103	100	24	295	328	454	461	540	8	
	NMS4 150/400B				1257																				454
NMS4 150/400A	200	150	160	1330	280	450	747	200	150	550	450	440	45	100	100	100	24	482	625	535	8				