

### Esecuzione

Elettropompe centrifughe monoblocco con accoppiamento diretto motore-pompa e albero unico.

**NM:** monogirante.

**NMD:** a due giranti contrapposte (con spinta assiale equilibrata)

**Bocche:** filettate UNI-ISO 228/1.

### 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.
- Per impianti antincendio.
- Per irrigazione.

### Limiti d'impiego

Temperatura liquido fino 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 (16 bar per pompe NMD 25/190; NMD 32/210; NMD 40/180). Servizio continuo.

### Motore

Motore ad induzione a 2 poli, 50 Hz (n = 2900 1/min).

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

400/690 V ± 10%, da 4 a 9,2 kW;

**NMM, NMDM:** monofase 230 V ± 10%, con termoprotettore.

Isolamento classe F.

Protezione IP 54.

Esecuzione secondo IEC 34.

### Esecuzioni speciali a richiesta

- Altre tensioni.
- Frequenza 60 Hz (vedere catalogo 60 Hz).
- Protezione IP 55.
- Tenuta meccanica speciale.
- Per liquido o ambiente con temperature più alte.

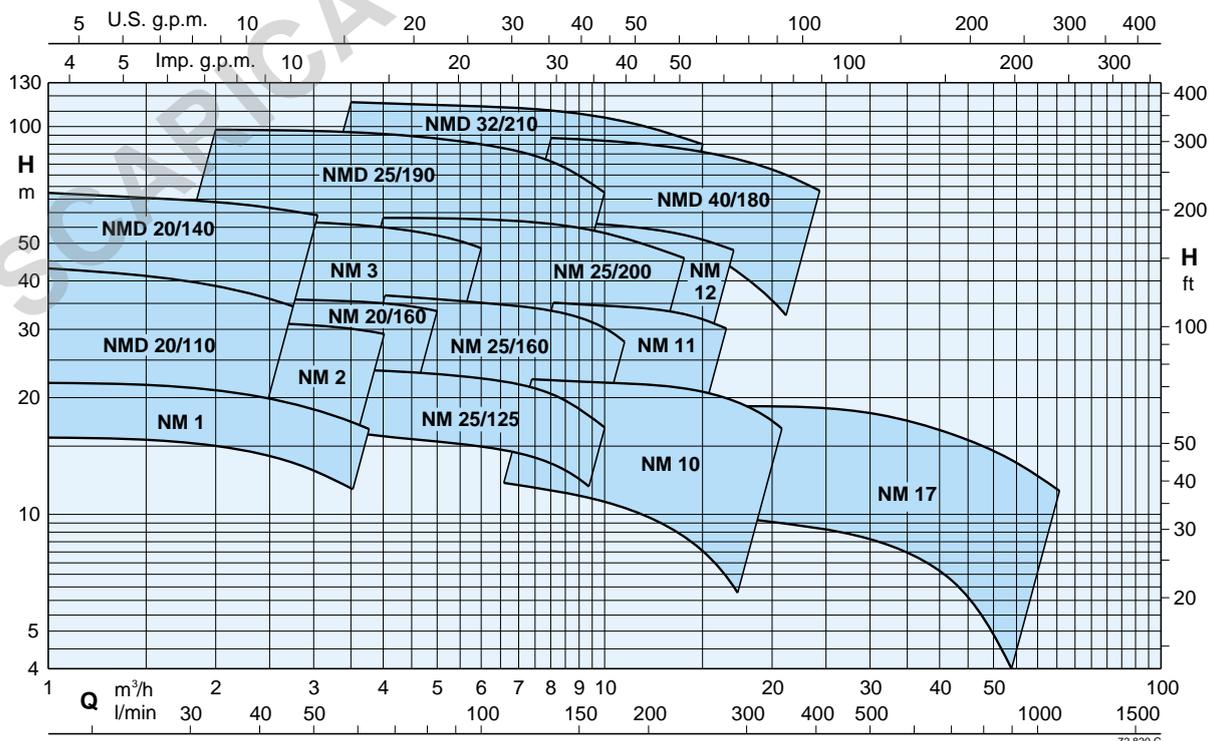
### Garanzia

Un anno (secondo le nostre condizioni generali di vendita).

### Materiali

Componenti	NM, NMD	B-NM, B-NMD	I-NM, I-NMD
Corpo pompa	Ghisa	Bronzo	Acciaio al Cr Ni Mo AISI 316
Raccordo	200 ISO 185	G-Cu Sn 10 UNI 7013	
Girante	Ottone P- Cu Zn 40 Pb 2 UNI 5705		Acciaio al Cr Ni Mo AISI 316
NM 17	Ghisa 200 ISO 185	Bronzo G-Cu Sn 10 UNI 7013	
Albero	Acciaio al Cr Ni AISI 303 fino a 2.2 kW	Acciaio al Cr Ni Mo AISI 316	Acciaio al Cr Ni Mo AISI 316
	Acciaio al Cr AISI 430 da 3 kW a 9.2 kW		
Tenuta meccanica	Carbone - ceramica		

### Campo di applicazione $n \approx 2900$ 1/min



**Prestazioni  $n \approx 2900$  1/min**

	NM	P <sub>2</sub>		Q m <sup>3</sup> /h														
		kW	HP		l/min	1	1,2	1,5	1,89	2,4	3	3,6	4,2	4,8	5,4	6	6,6	7,5
				16		20	25	31,5	40	50	60	70	80	90	100	110	125	140
	NM 1/AE ●	0,37	0,5	H m	22	21,5	21	20,5	20	19	17,5	15,5						
	NM 2/BE ●	0,55	0,75		27	26,5	26	25,5	25	24	23	22	20					
	NM 2/SE ●	0,55	0,75		31	30,5	30	29	27,5	25,5	23,5	20	16					
	NM 2/AE ●	0,75	1		33,5	33	32,5	32	31,5	30,5	29,5	28,5	27	26	24			
	NMM 3/CE	1,1	1,5			40	39,5	39	38	37	36	35	33,5					
	NM 3/CE	1,1	1,5			40	39,5	39	38,5	38	37	36	34	32*	29*			
	NMM 3/BE	1,5	2				43	42,5	42	41,5	41	40	39	37,5	35,5*	32,5*		
	NM 3/BE	1,5	2				50	49,5	49	48,5	48	47	46	45	43*	40*	37*	33*
	NM 3/AE	2,2	3				58	57,5	57	56,5	56	55	54	53	51*	49*	47*	43*

B-NM B-NMD I-NMD	NM NMD	P <sub>2</sub>		Q m <sup>3</sup> /h														
		kW	HP		l/min	1	1,2	1,5	1,89	2,4	3	3,6	4,2	4,8	5,4	6	6,6	7,5
				16		20	25	31,5	40	50	60	70	80	90	100	110	125	140
B-NMD 20/110BE ●	NMD 20/110BE ●	0,45	0,6	H m	33	32	31	29	26,5	23	18							
B-NMD 20/110ZE ●	NMD 20/110ZE ●	0,55	0,75		37	36	35	33	30,5	27,5	23	18*						
B-NMD 20/110AE ●	NMD 20/110AE ●	0,75	1		43	42	40,5	39	36,5	33	29	25*						
I-B-NMD 20/140BE	NMD 20/140BE	1,1	1,5		52	51,5	51	50	48,5	47	45							
I-B-NMD 20/140AE	NMD 20/140AE	1,1	1,5		53	52,5	52	51	50	48	46	43,5	40					
I-B-NMD 20/140AE	NMD 20/140AE	1,5	2		57,5	57	56,5	55,5	54	51,5	49	46	43	40	36			
I-B-NMD 20/140AE	NMD 20/140AE	1,5	2		67	66,5	66	64,5	63	61,5	59	57	53,5	50	46			
B-NM 20/160BE ●	NM 20/160BE ●	0,75	1					30,5	30	29,5	28,5	27,5	26,5	25,5	24	22*		
B-NM 20/160AE ●	NM 20/160AE ●	1,1	1,5					36	35,5	35	34,5	33,5	32	30,5	29	27*		

B-NM B-NMD I-NM I-NMD	NM NMD	P <sub>2</sub>		Q m <sup>3</sup> /h														
		kW	HP		l/min	2,4	3	3,6	4,8	6	6,6	7,5	8,4	9,6	10,8	12	13,2	15
				40		50	60	80	100	110	125	140	160	180	200	220	250	280
	NM 25/125BE ●	0,55	0,75	H m	20,5	20,5	20,3	19,5	18,5	18	17	15,5	14*	11,5*				
	NM 25/125AE ●	0,75	1		24	24	23,7	23,2	22,5	22	21	20	18*	16*				
B-NM 25/160BE ●	NM 25/160BE ●	1,1	1,5			31	30,7	30	28,5	28	27	26	23					
B-NM 25/160AE ●	NM 25/160AE ●	1,5	2			36,5	36,2	35,5	34,5	34	33,5	32,5	31	28,5*	26*			
I-B-NM 25/200BE	NM 25/20BE	2,2	3			42,5	42	41	40	39,5	38,5	37,5	36	33*	29*			
I-B-NM 25/200AE	NM 25/20AE	3	4			50	49,7	49	48	47,5	47	46,5	45,5	44*	42*	39*		
I-B-NM 25/200SE	NM 25/20SE	4	5,5			59	58,5	58	57,5	57	56,5	55,5	54,5	53	51,5	49*	44,5*	37*
I-B-NMD 25/190CE	NMD 25/190CE	2,2	3			62	60,5	59	55,5	51	48,5	44	38*					
I-B-NMD 25/190BE	NMD 25/190BE	3	4			76	75	74	70	66	64	60	54	46*				
I-B-NMD 25/190AE	NMD 25/190AE	4	5,5		98	97	96	93,5	90	88	84	79	70*					

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

**Prestazioni  $n \approx 2900$  1/min**
**1**

B-NMD I-NMD	NMD	P <sub>2</sub>		Q m <sup>3</sup> /h l/min	5,4	6	6,6	7,5	8,4	9,6	10,8	12	13,2	15	16,8	18,9	21	24	
		kW	HP		90	100	110	125	140	160	180	200	220	250	280	315	350	400	
B-NMD 32/210DE	NMD 32/210DE	4	5,5	H m	71	69	67,5	65	62,5	58	53	46	37*						
B-NMD 32/210CE	NMD 32/210CE	5,5	7,5		84	83	82	81	79	76	73	69	64*	54*					
B-NMD 32/210BE	NMD 32/210BE	7,5	10		104	103	102	100	98	95	92	88	84*	76*					
B-NMD 32/210AE	NMD 32/210AE	9,2	12,5		114	113	112	110	108	105	103	99	96*	90*					
I-B-NMD 40/180DE	NMD 40/180DE	4	5,5					60	59,5	57	56	53	51,5	48	44	39	34*	25*	
I-B-NMD 40/180CE	NMD 40/180CE	5,5	7,5					69	68	67	66	64,5	63	60	57	53	48*	40*	
I-B-NMD 40/180BE	NMD 40/180BE	7,5	10					87	86	85	84	82,5	81	78	75	71	66*	59*	
I-B-NMD 40/180AE	NMD 40/180AE	9,2	12,5					94	93	92	91	89,5	88	85	82	78	74*	67*	

B-NM	NM	P <sub>2</sub>		Q m <sup>3</sup> /h l/min	21	24	27	30	33	37,8	42	48	54	60	66	75	84	96	
		kW	HP		350	400	450	500	550	630	700	800	900	1000	1100	1250	1400	1600	
B-NM 17/HE ●	NM 17/HE ●	1,1	1,5	H m	9,5	9,2	9	8,6	8,2	7,5	6,7	5,5	3,5*						
B-NM 17/GE ●	NM 17/GE ●	1,5	2		12	11,7	11,5	11,2	11	10,3	9,7	8,5	7*	4*					
B-NM 17/FE	NM 17/FE	2,2	3			16	16	15,5	15	14,5	14	13	11,5*	10*	8*				
B-NM 17/DE	NM 17/DE	3	4					18	18	17,5	17	16,5	15,5	14*	13*	11,5*			

**NM, NMD** Esecuzione normale.

**P<sub>2</sub>** Potenza nominale motore.

● Anche con motore monofase = NMM - NMDM.

**B-NM, B-NMD** Esecuzione in bronzo.

**H** Prevalenza totale in m.

 \* Massima altezza di aspirazione manometrica 1-2 m.  
Tolleranze secondo ISO 2548, allegato B.

**I-NM, I-NMD** Esecuzione in acciaio inossidabile.

**Correnti nominali**

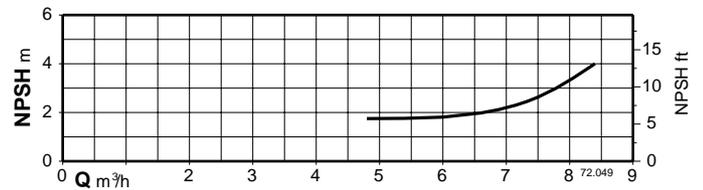
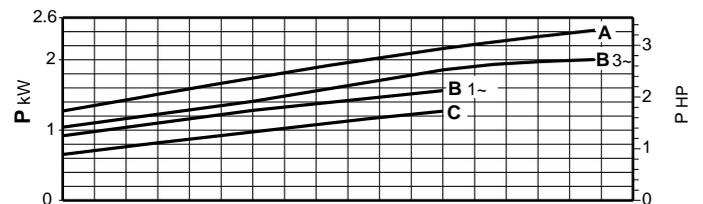
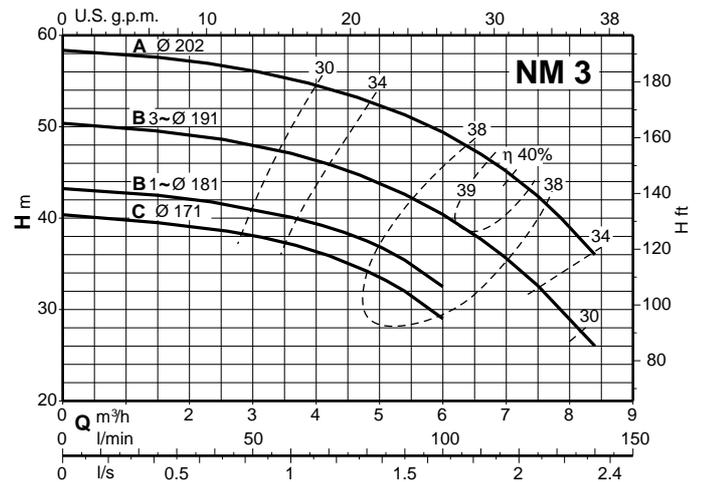
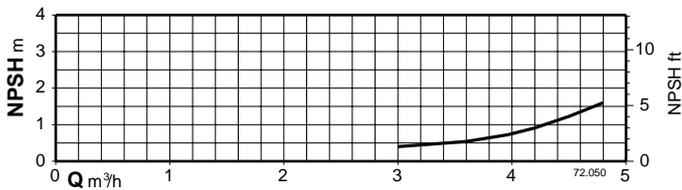
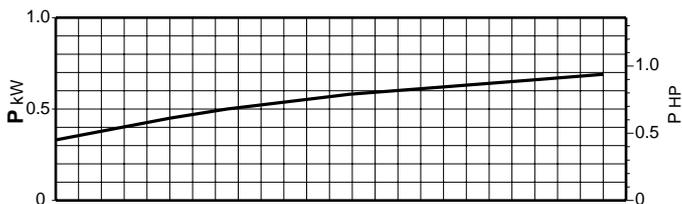
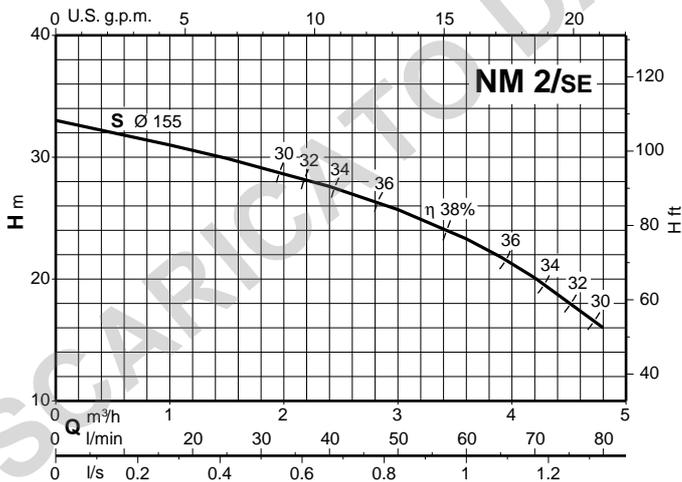
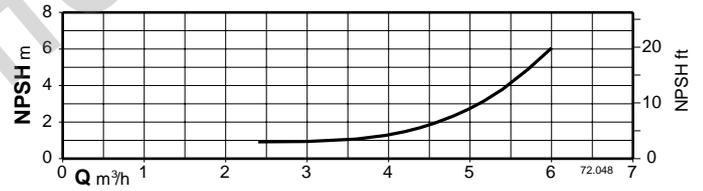
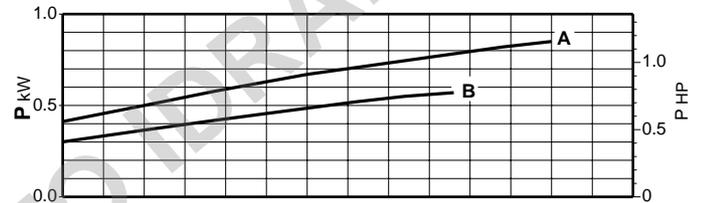
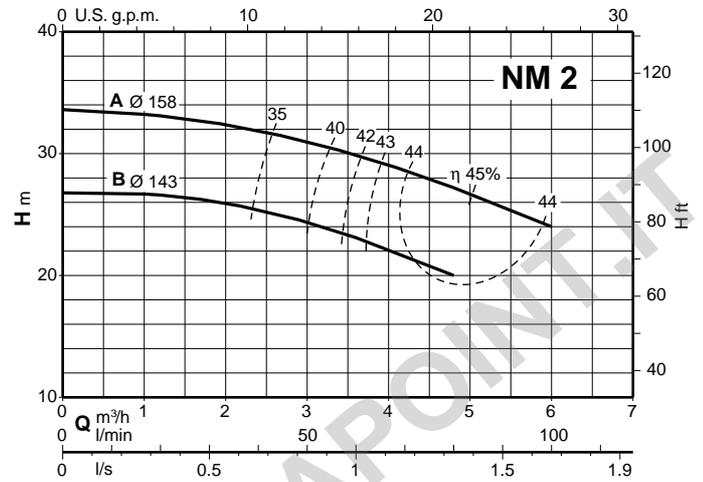
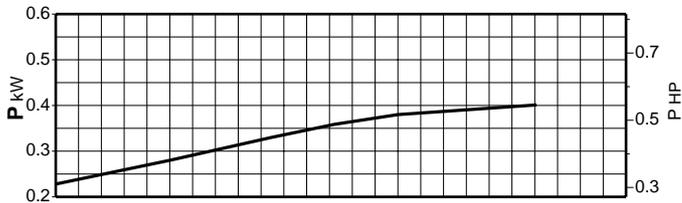
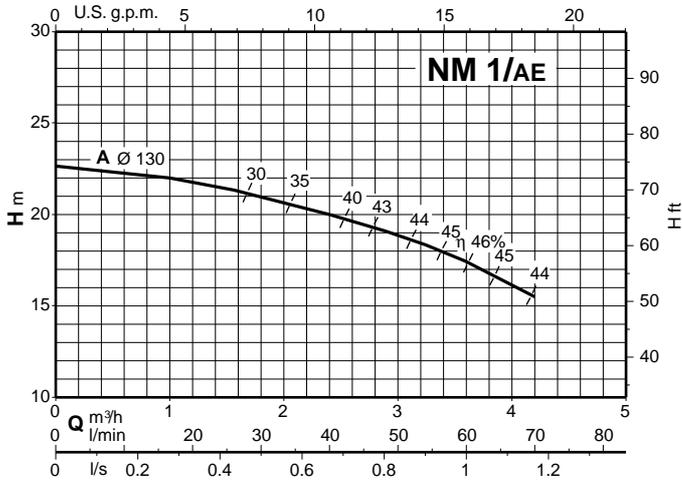
P <sub>1</sub> kW	P <sub>2</sub>		230 V 1~ IN A	IA/IN
	kW	HP		
0,6	0,37	0,5	3	2,6
0,71	0,45	0,6	3,6	2,9
0,91	0,55	0,75	4,5	3,1
1,2	0,75	1	5,7	3
1,6	1,1	1,5	7,4	3
2	1,5	2	9,2	2,5

P <sub>2</sub> kW	HP	230 V Δ / 400 V Y			IA/IN
		IN A	IN A	IN A	
0,37	0,5	2,4	1,4		3,8
0,45	0,6	2,5	1,5		3,8
0,55	0,75	3	1,7		4,7
0,75	1	4	2,3		5,5
1,1	1,5	5	2,9		5,4
1,5	2	7,5	4,3		5,2
2,2	3	9,15	5,3		4,7
3	4	11,5	6,6		7,8
4	5,5		9,6	5,5	5,9
5,5	7,5		12	7	6
7,5	10		16	9,2	9,3
9,2	12,5		20	11,5	9,5

**P<sub>1</sub>** Massima potenza assorbita.

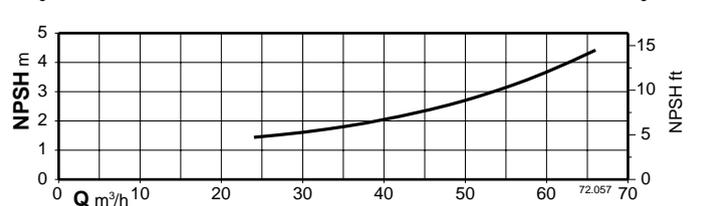
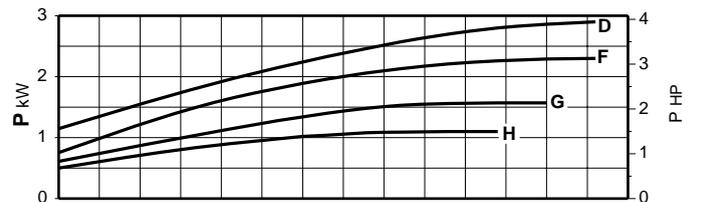
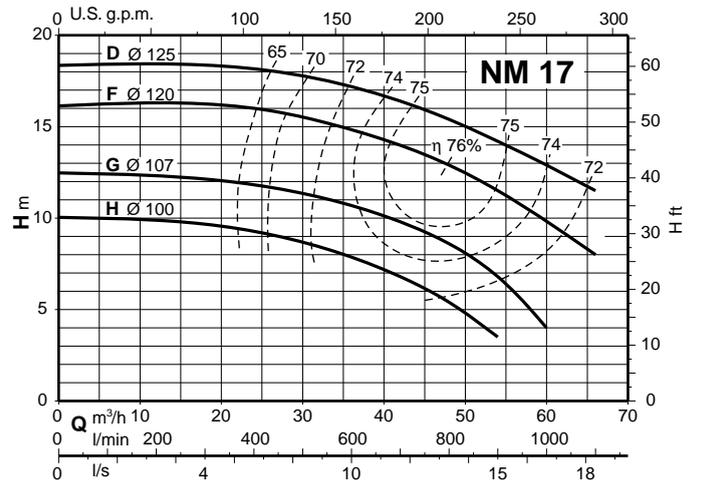
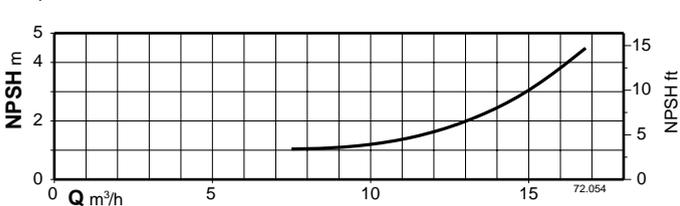
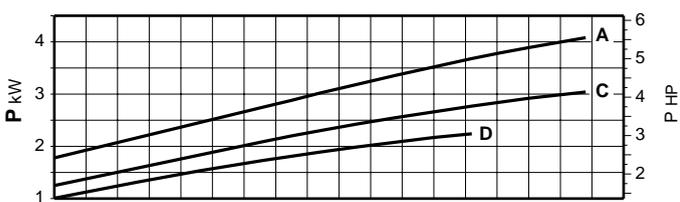
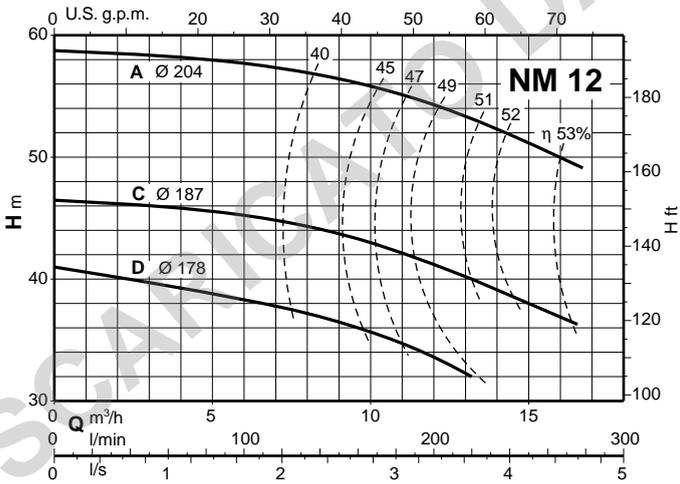
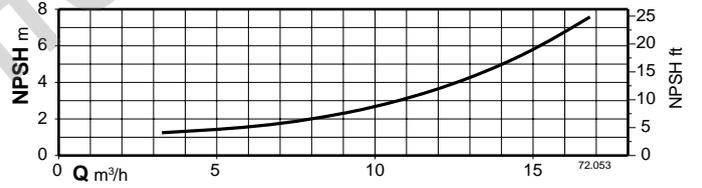
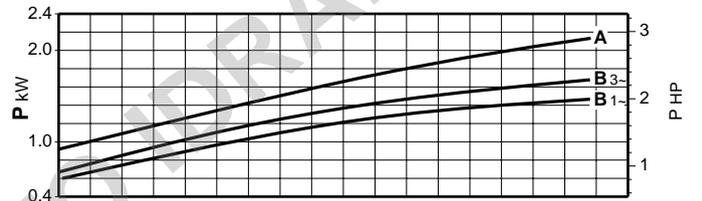
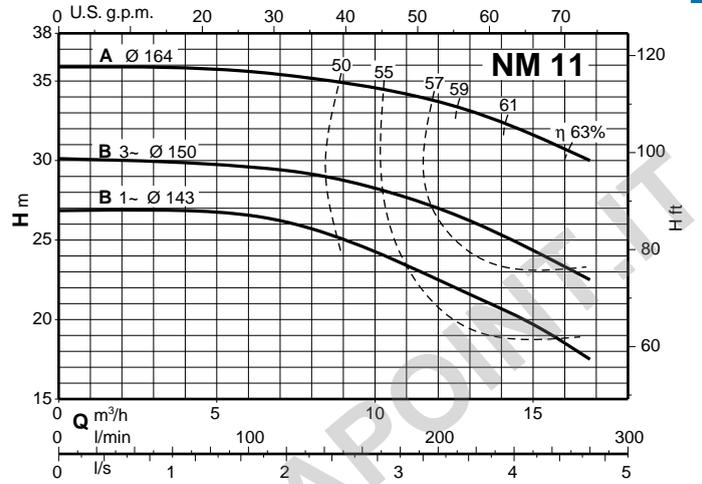
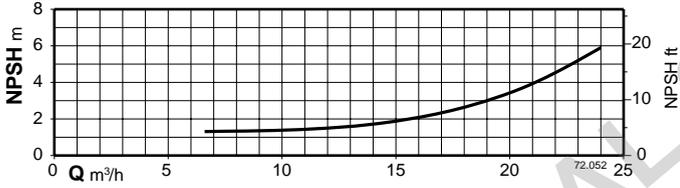
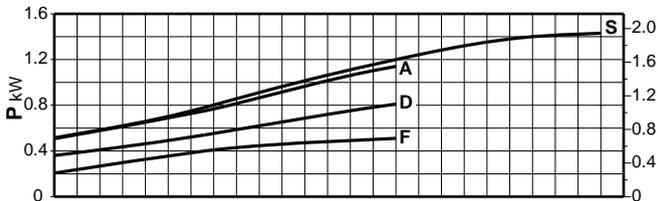
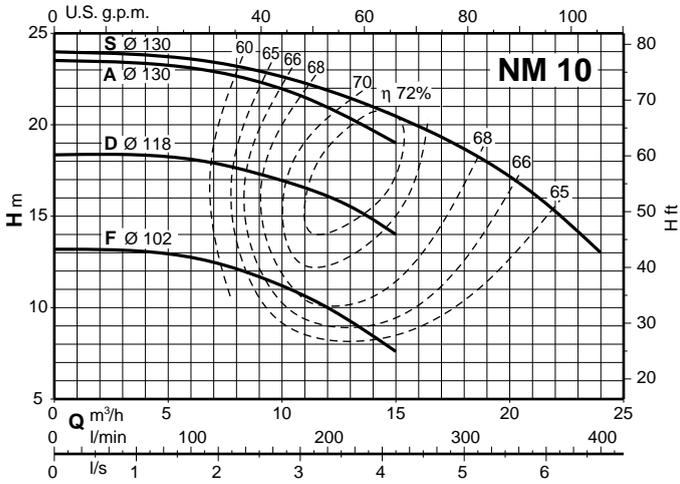
**P<sub>2</sub>** Potenza nominale motore.

**IA/IN** Corrente di spunto / Corrente nominale.

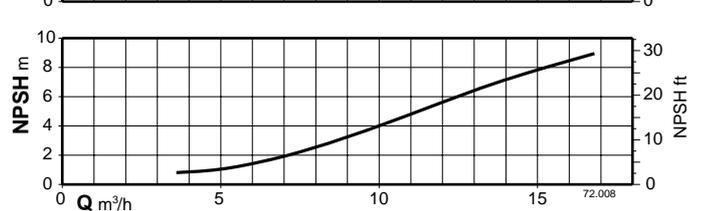
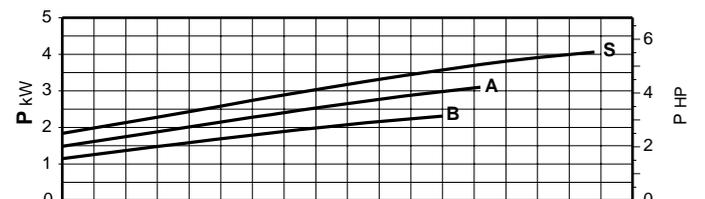
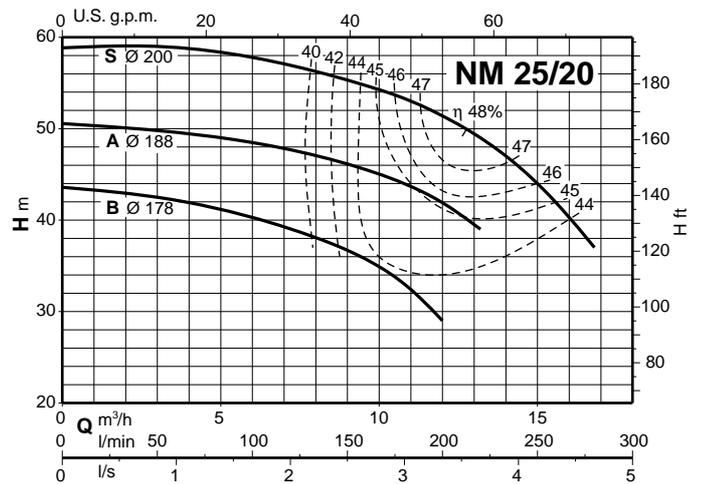
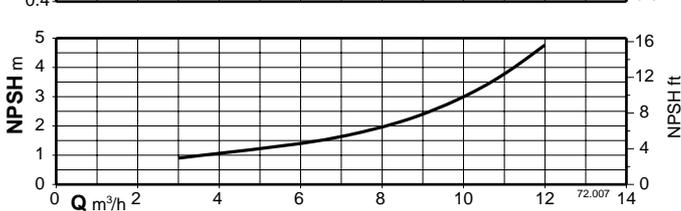
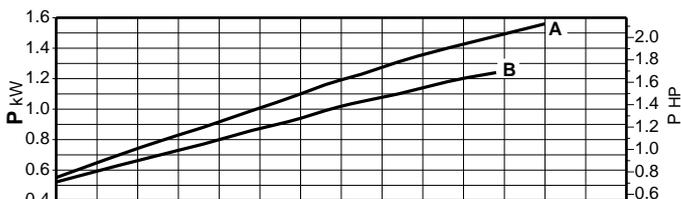
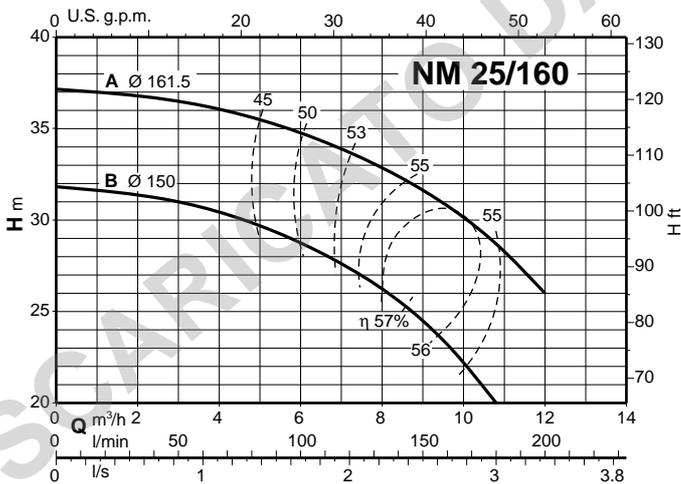
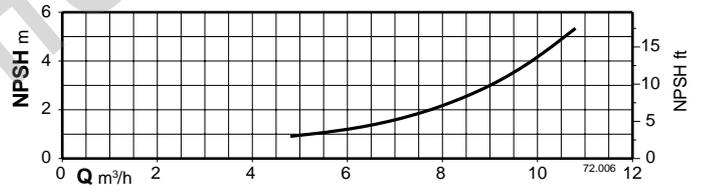
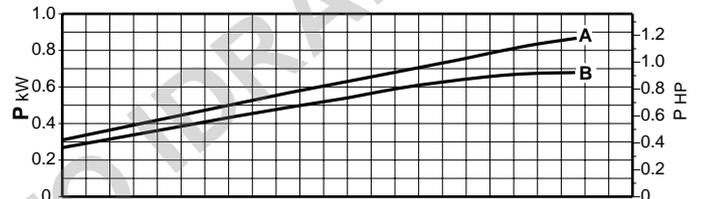
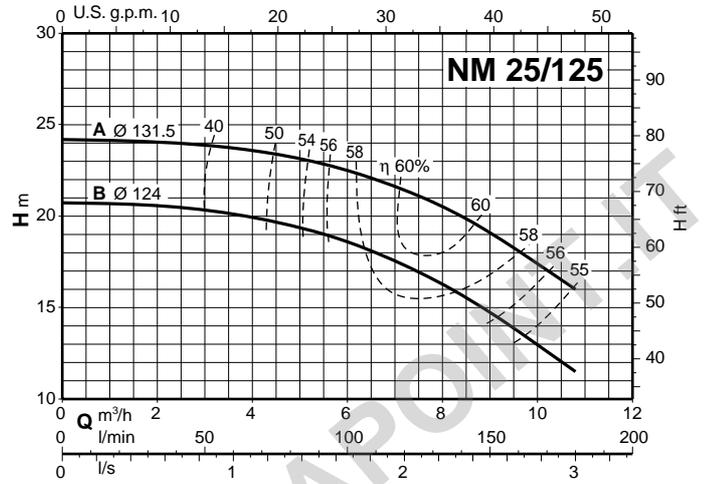
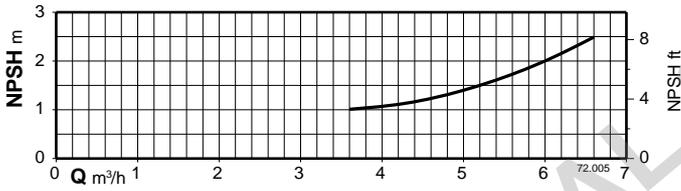
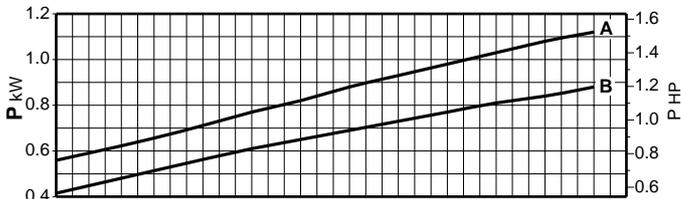
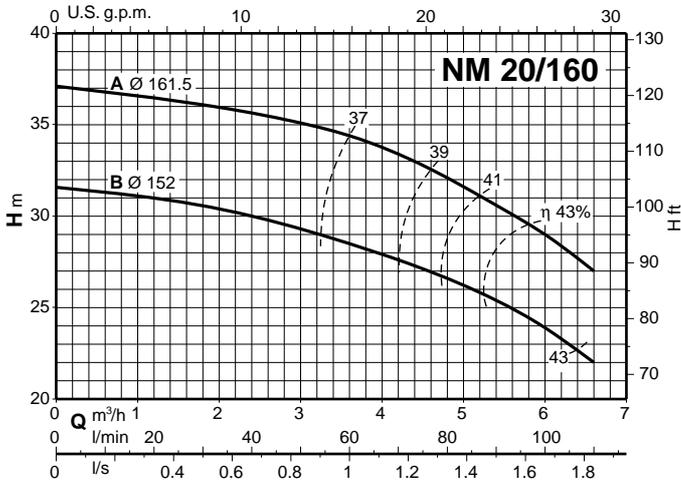
**Curve caratteristiche  $n \approx 2900$  1/min**


Curve caratteristiche  $n \approx 2900$  1/min

1

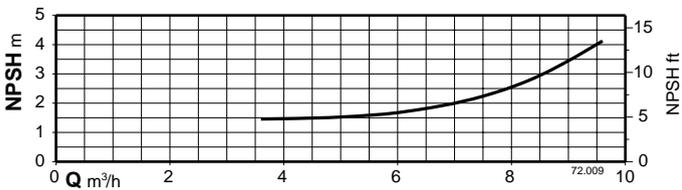
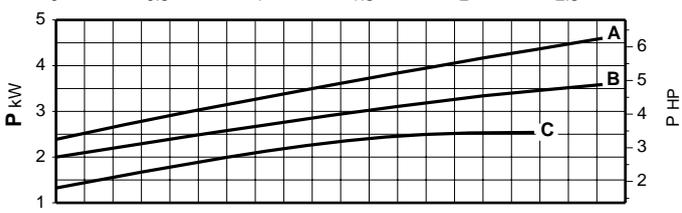
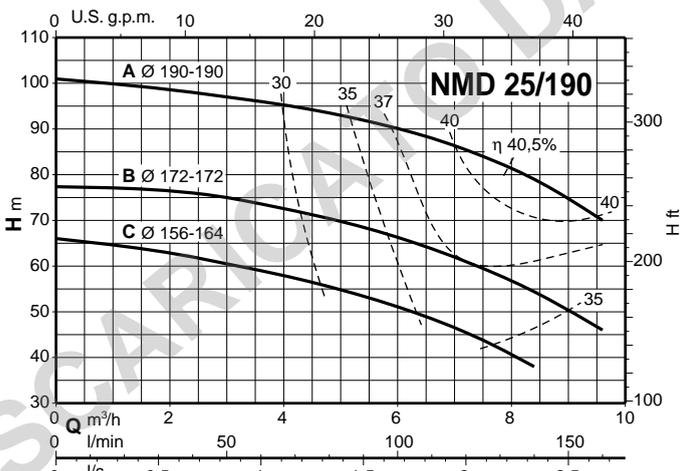
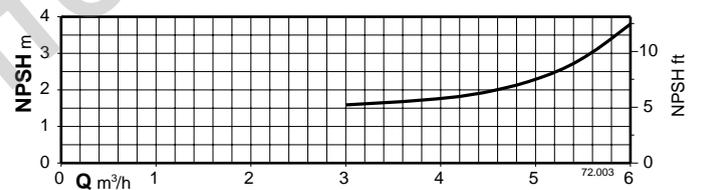
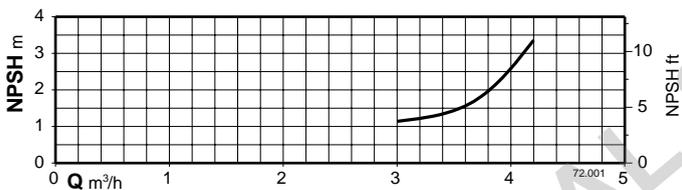
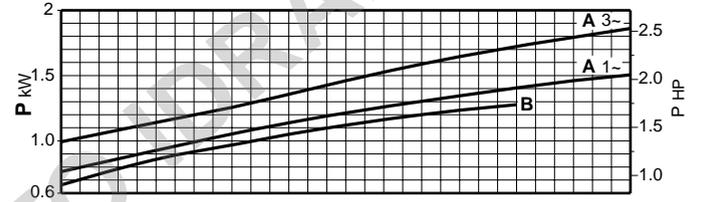
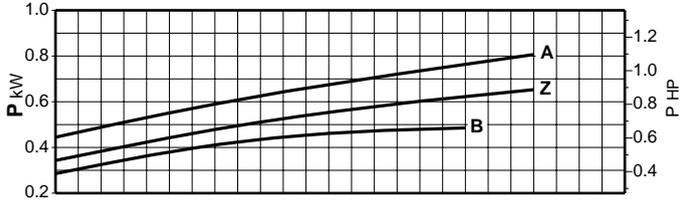
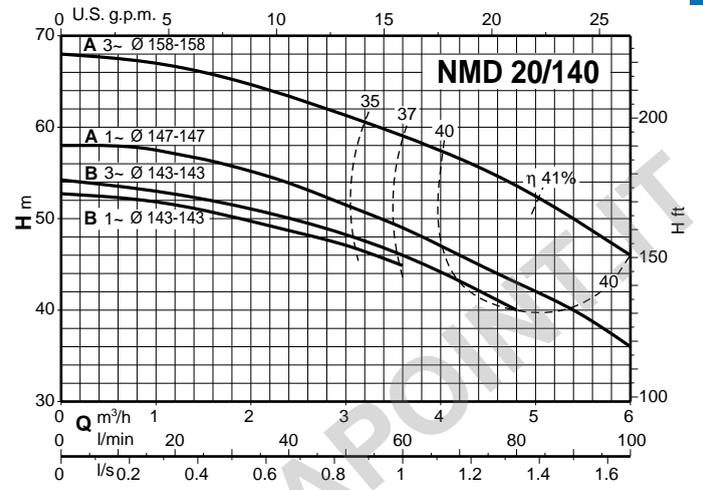
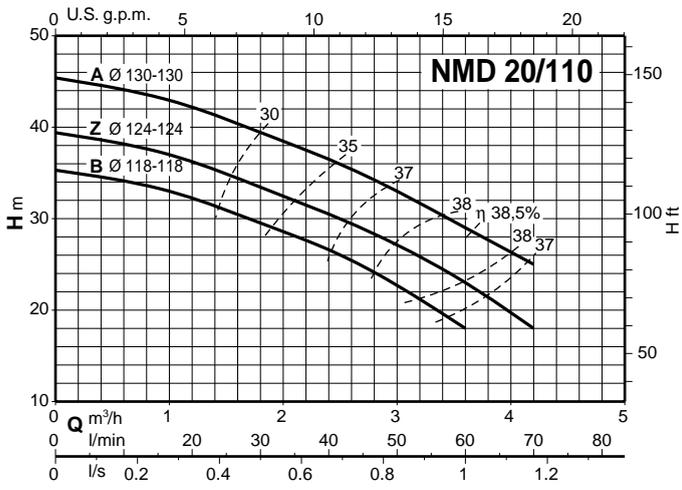


**Curve caratteristiche  $n \approx 2900$  1/min**

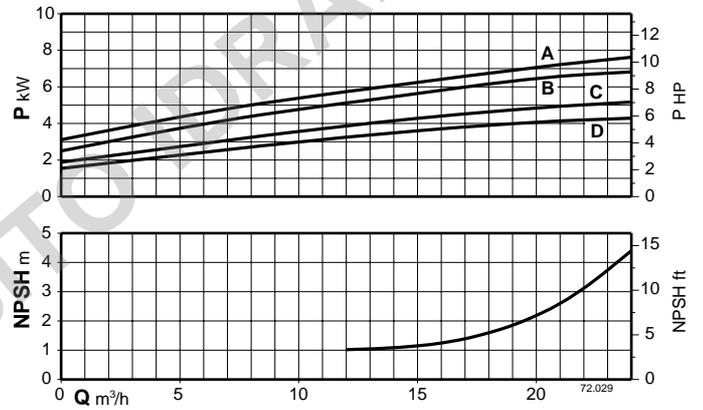
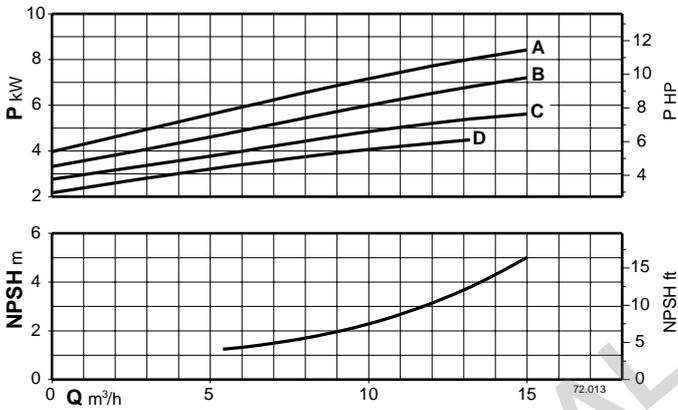
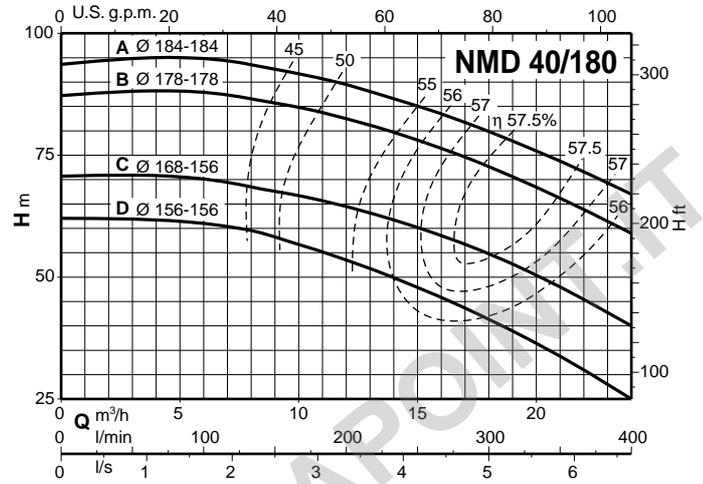
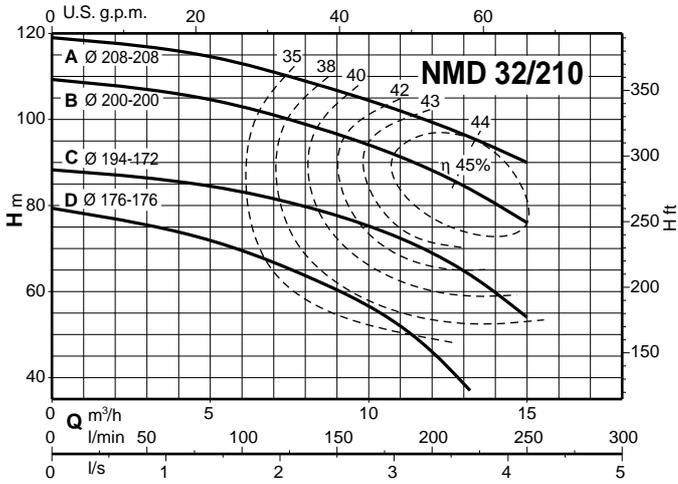


Curve caratteristiche  $n \approx 2900$  1/min

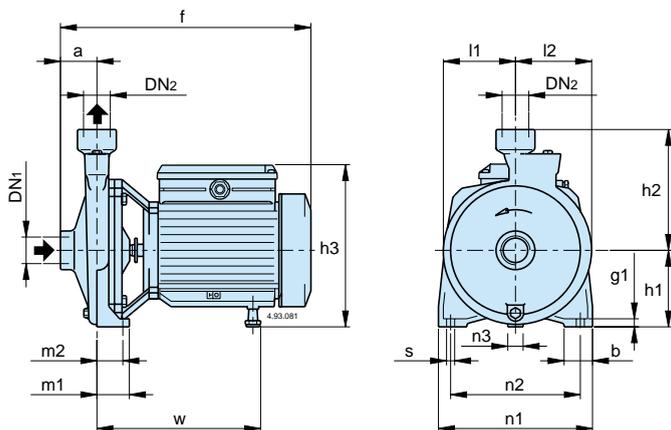
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**Curve caratteristiche  $n \approx 2900$  1/min**

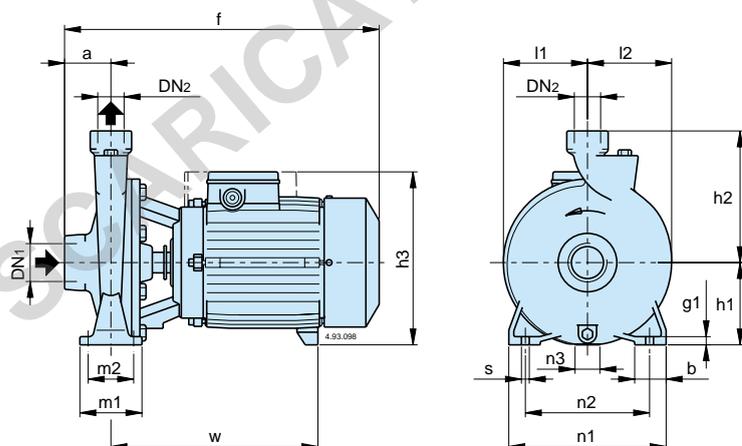


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**Dimensioni e pesi**
**1**


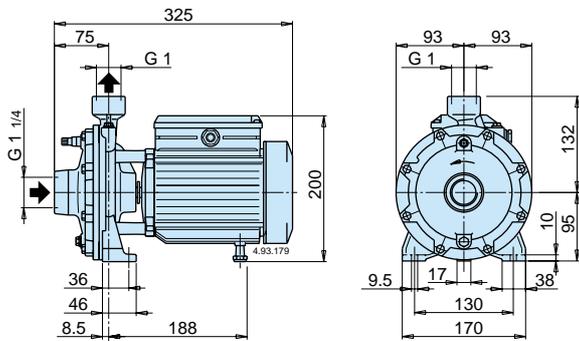
TIPO	NMM kg	NM kg	B-NM kg
NM 1/AE	9	9	
NM 2/BE	14,5	13,7	
NM 2/SE	14,7	13,9	
NM 2/AE	15,7	15	
NM 3/CE	24,8	23,6	
NM 3/BE	26,8	25,8	
NM 3/AE		27	
NM 10/FE	19	18,8	
NM 10/DE	19,2	18,9	
NM 10/AE	21,6	20,3	
NM 10/SE	23,2	22,2	
NM 11/BE	26	25	
NM 11/AE		26	
NM 12/DE		31,5	
NM 12/CE		38,3	
NM 12/AE		42	
B- NM 17/HE	25	22,5	24,5
B- NM 17/GE	30	25	27
B- NM 17/FE		26	28
B- NM 17/DE		32	34

B-NM	NM	DN1 ISO 228	DN2 ISO 228	mm															
				a	f	h1	h2	h3	m1	m2	n1	n2	n3	b	s	l1	l2	w	g1
	NM 1/AE	G 1	G 1	40	261	80	132	176	40	32	170	140	17	35	9,5	77	81	171	10
	NM 2/AE-SE-BE	G 1	G 1	45	305	95	150	203	40	32	190	160	17	35	9,5	87	90	218	10
	NM 3/AE-BE-CE	G 1	G 1	50	375	112	180	222	55	43	245	205	37	45	11,5	110	113	244	12
	NM 10/SE-AE-DE-FE	G 2	G 1 1/4	63	382	100	150	210	50	35	190	140	30	50	13	90	97	239	14
	NM 11/AE-BE	G 2	G 1 1/4	70	400	112	170	222	50	35	210	160	37	50	15	103	110	247	14
	NM 12/DE			400				242					47					247	
	NM 12/CE	G 2	G 1 1/4	70	465	132	190	260	50	35	240	190	45	50	15	125	127	300	14
	NM 12/AE			465				260					45					300	
	B- NM 17/HE			417				222					37					257	
	B- NM 17/GE			417	112	160		222	50	35	210	160	37	50	14	96	113	257	14
	B- NM 17/FE	G 2 1/2	G 2 1/2	80	417			222					37					257	
	B- NM 17/DE			475				240					20					295	

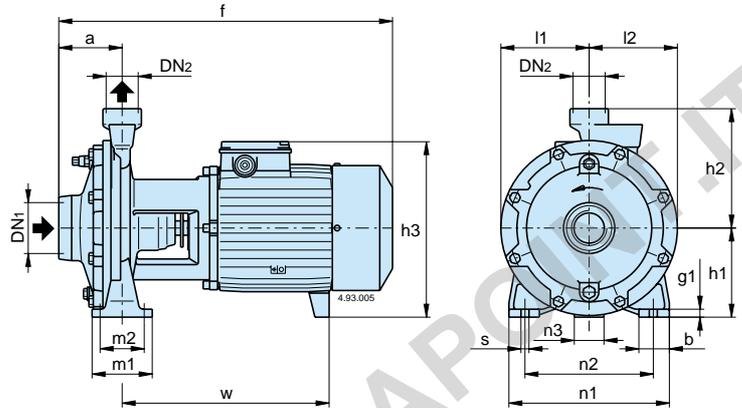


TIPO	NMM kg	NM kg	B-NM kg	I-NM kg
B- NM 20/160BE	20,9	19,8	21,5	
B- NM 20/160AE	22,2	21	23	
NM 25/125BE	19	18		
NM 25/125AE	19	18		
B- NM 25/160BE	22	21,2	23,5	
B- NM 25/160AE	23,6	22,8	25	
NM 25/20BE		30		
NM 25/20AE		39		
NM 25/20SE		43		
I- B- NM 25/200BE			32	31
I- B- NM 25/200AE			41	40
I- B- NM 25/200SE			45	44

B-NM I-NM	NM	DN1 ISO 228	DN2 ISO 228	mm															
				a	f	h1	h2	h3	m1	m2	n1	n2	n3	b	s	l1	l2	w	g1
B- NM 20/160AE-BE	NM 20/160AE-BE	G 1 1/4	G 3/4	53	375	100	150	210	75	55	190	150	30	38	9,5	102	102	246	10
	NM 25/125AE-BE	G 1 1/2	G 1	56	380	90	140	200	75	55	170	130	9	38	9,5	85	88	250	10
B- NM 25/160AE-BE	NM 25/160AE-BE	G 1 1/2	G 1	56	380	100	160	210	75	55	190	150	30	38	9,5	102	102	246	10
	NM 25/20BE	G 1 1/2	G 1	63	393	125	180	235	90	65	245	200	49	45	11,5	125	125	251	11
	NM 25/20AE-SE			455				253					42					295	
I- B- NM 25/200-BE		G 1 1/2	G 1	63	405	125	180	235	90	65	245	200	49	45	11,5	125	125	263	11
I- B- NM 25/200-AE-SE				455				253					42					295	

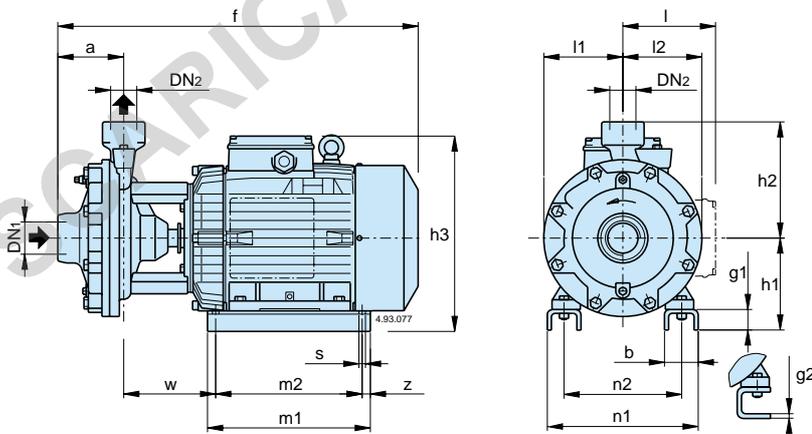
**Dimensioni e pesi**
**NMD 20/110**


TIPO	NMDM kg	NMD kg	B-NMD kg
B- NMD 20/110BE	14,3	13,7	15,7
B- NMD 20/110ZE	15,7	14,7	16,5
B- NMD 20/110AE	16,6	15,6	17

**NMD 20/140  
NMD 25/190**


TIPO	NMDM kg	NMD kg	B-NMD kg	I-NMD kg
I- B- NMD 20/140BE	24,8	23,6	26	25
I- B- NMD 20/140AE	26,6	25,6	28	27
I- B- NMD 25/190CE		39	41	40
I- B- NMD 25/190BE		46	48	47
I- B- NMD 25/190AE		51	54	52

B-NMD I-NMD	NMD	DN1 ISO 228	DN2	mm															
				a	f	h1	h2	h3	m1	m2	n1	n2	n3	b	s	l1	l2	w	g1
I-B-NMD 20/140AE-BE	NMD 20/140AE-BE	G 1 1/4	G 1	80	410	112	150	225	75	55	200	160	37	38	9,5	110	110	256	10
I-B-NMD 25/190CE	NMD 25/190CE	G 1 1/2	G 1	97	495	140	180	268	100	70	240	190	49	50	14	133	133	306	13
I-B-NMD 25/190BE	NMD 25/190BE																		
I-B-NMD 25/190AE	NMD 25/190AE																		

**NMD 32/210  
NMD 40/180**


TIPO	NMD kg	B-NMD kg	I-NMD kg
B- NMD 32/210DE	61	64	
B- NMD 32/210CE	70	73	
B- NMD 32/210BE	77	80	
B- NMD 32/210AE	95	98	
I- B- NMD 40/180DE	61	64	63
I- B- NMD 40/180CE	69	72	71
I- B- NMD 40/180BE	76	79	78
I- B- NMD 40/180AE	96	99	98

B-NMD I-NMD	NMD	DN1 ISO 228	DN2	mm																	
				a	f	h1	h2	h3	m1	m2	n1	n2	z	b	s	l	l1	l2	w	g1	g2
B- NMD 32/210DE	NMD 32/210DE	G 2	G 1 1/4	110	525	155	283	205	175	194	140	54	10	-	150	150	139	-	6		
B- NMD 32/210BE-CE	NMD 32/210BE-CE				550	150	215	-	280	250	258	190	15	68	12	170	150	108	38	-	
B- NMD 32/210AE	NMD 32/210AE				625	170	355	298	268	286	216	70	12	-	150	150	152	38	-		
I- B- NMD 40/180DE	NMD 40/180DE	G 2	G 1 1/2	121	530	155	283	205	175	194	140	54	10	-	145	145	133	-	6		
I- B- NMD 40/180BE-CE	NMD 40/180BE-CE				555	150	215	-	280	250	258	190	15	68	12	170	145	102	38	-	
I- B- NMD 40/180AE	NMD 40/180AE				630	170	355	298	268	286	216	70	12	-	145	145	145	38	-		