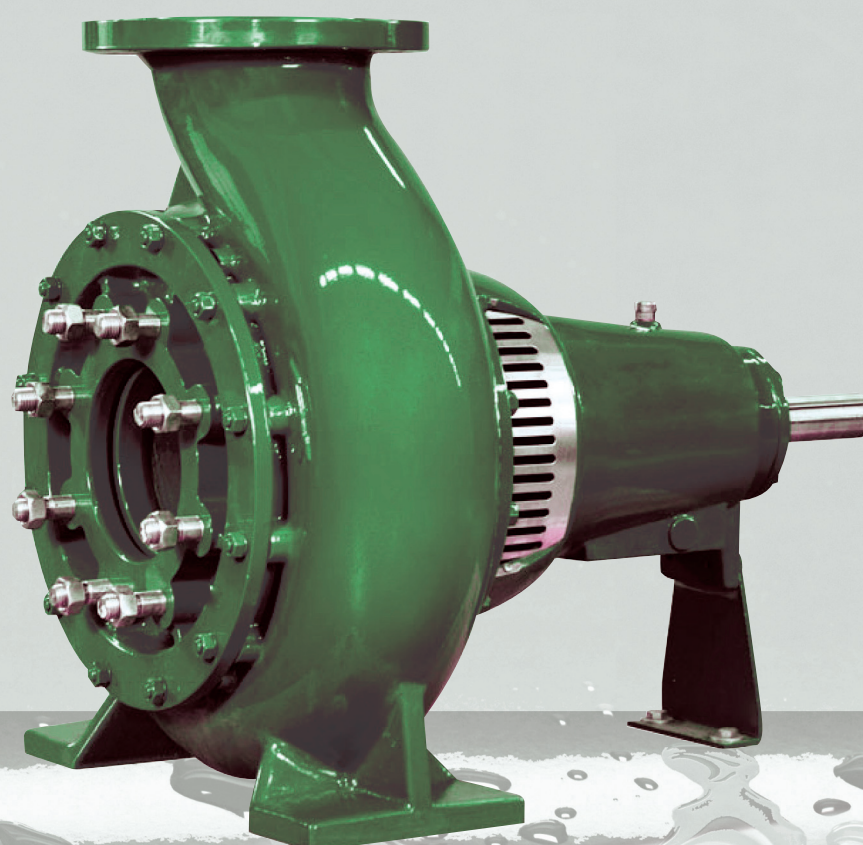


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ELETTROPOMPE



NCA
Pompe per drenaggio
Sewage and Waste Water Pumps





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Informazioni Generali

Liquidi trattati

Acque reflue domestiche ed industriali, acque nere, liquidi viscosi e corrosivi, liquidi con sostanze fibrose e solide.

Dati funzionamento

Velocità : fino a 3000 1/min
Bocca di mandata : DN 40 ÷ DN 300 mm
Flange di aspirazione e mandata: ISO 7005-2 /PN 10
Temperatura d'impiego : -10° C fino a 110° C
Pressione (Pmax) : 10 bar (16bar*)

Applicazioni

- Pompaggio di acque nere domestiche ed industriali
- Liquefazione di trattamenti agricoli
- Pompaggio acqua piovana
- Lavori di drenaggio ed aspirazione
- Acqua sporca e fangosa
- Liquidi viscosi e fibrosi
- Appartamenti, alberghi, ospedali, villaggi turistici, edifici pubblici

Designazione della pompa

NCA 250 - 315 XX
Tipo di pompa _____
Mandata (DN in mm) _____
Diametro nominale della girante (mm) _____
Tipo di girante _____

Caratteristiche costruttive della pompa

- Pompa centrifuga monostadio ad aspirazione assiale con girante chiusa o semi - aperta.
- 13 taglie di base che coprono un'ampia gamma di prestazioni.
- Grazie al disegno back-pull-out, il supporto completo e la parte rotante della pompa possono essere estratti senza rimuovere il corpo pompa dalle tubature.
- Tutte le giranti sono bilanciate dinamicamente con grado 6.3 secondo l'ISO 1940.
- Cuscinetti per lavoro pesante a grasso permanente o lubrificati ad olio a seconda della costruzione e a richiesta.
- Spinta assiale bilanciata con contropale.

Tenuta sull'albero

Disponibili con tenute meccaniche in materiali diversi o tenute a baderna.

Senso di rotazione

Il senso di rotazione è orario visto da lato motore.

General Information

NCA

Liquids Handled

Domestic and industrial waste water, raw sewage, viscous and corrosive liquids, liquids with fibrous and solid substances.

Technical Data

Speed : Up to 3000 rpm
Discharge Nozzle : DN 40 ... DN 300 mm
Suction and Discharge Flanges : ISO 7005-2 /PN 10
Operating Temperature : -10° C up to 110° C
Casing Pressure (Pmax) : 10 bar (16bar*)

Applications

- Pumping domestic and industrial raw sewage
- Sewage treatment plant
- Pumping rain water
- Drainage and dewatering works
- Dirty and muddy water
- Viscous and fibrous liquids
- Apartments, hotels, hospitals, resort villages, public buildings

Pump Designation

NCA 250 - 315 XX
Pump Type _____
Discharge (DN in mm) _____
Nominal Impeller Diameter (mm) _____
Impeller Type _____

Design features

- Horizontal, radially split volute casing, single stage, end suction centrifugal pumps with enclosed or semi-open impeller.
- 13 basic sizes covering wide range of operational area.
- Due to the back-pull-out design, the complete bearing assembly including impeller and shaft seal can be dismantled without removing the volute casing from the piping system.
- All impellers are dynamically balanced according to ISO 1940 Class 6.3
- Oil lubricated or life-time grease lubricated heavy duty roller bearings depending on construction and request.
- Axial thrust is balanced by back balancing ribs

Shaft sealing

Depending on the type of application different mechanical seals and soft packing is applicable.

Direction of rotation

The direction of rotation is clockwise (CW) viewed from the motor side.

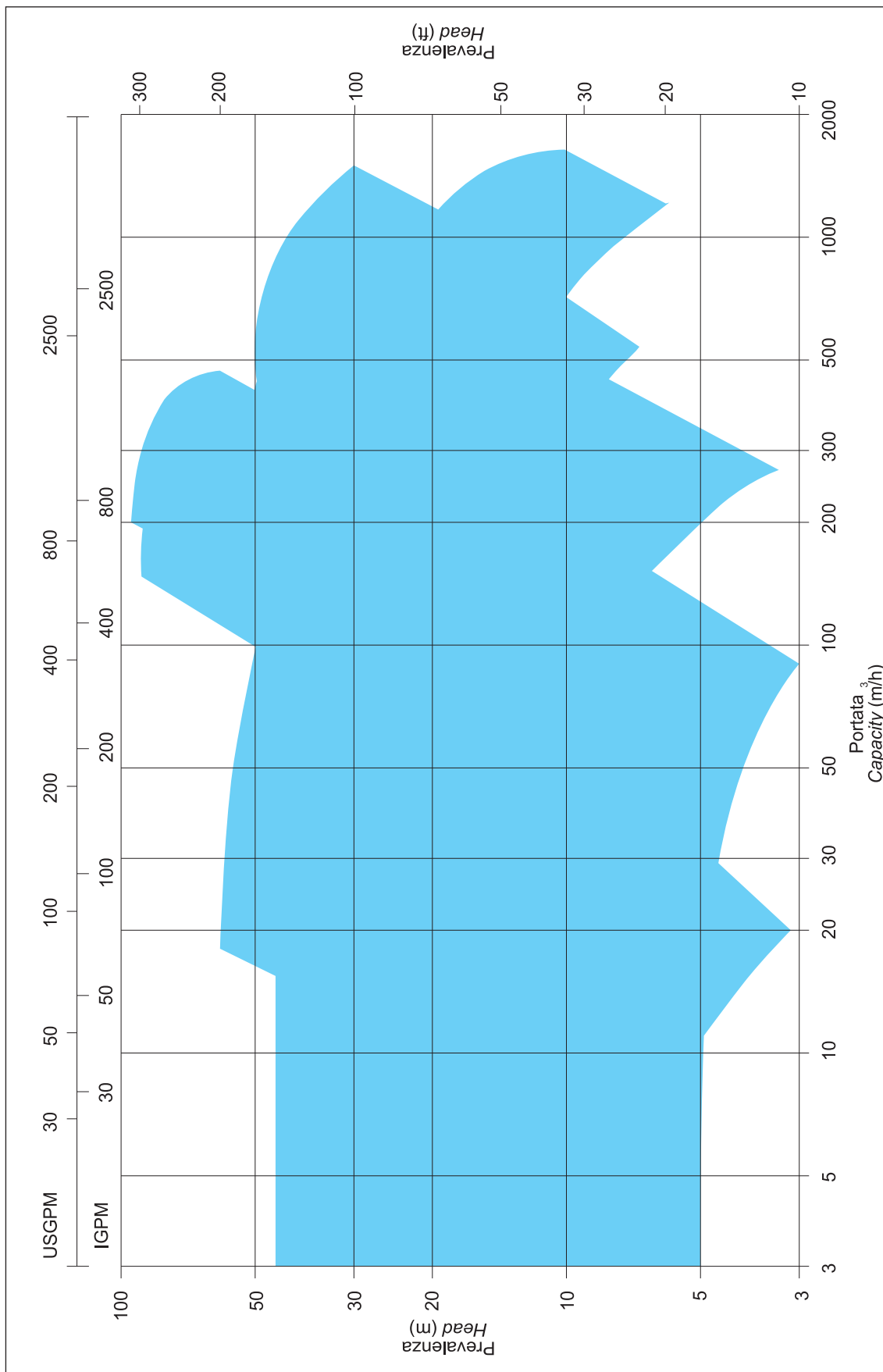


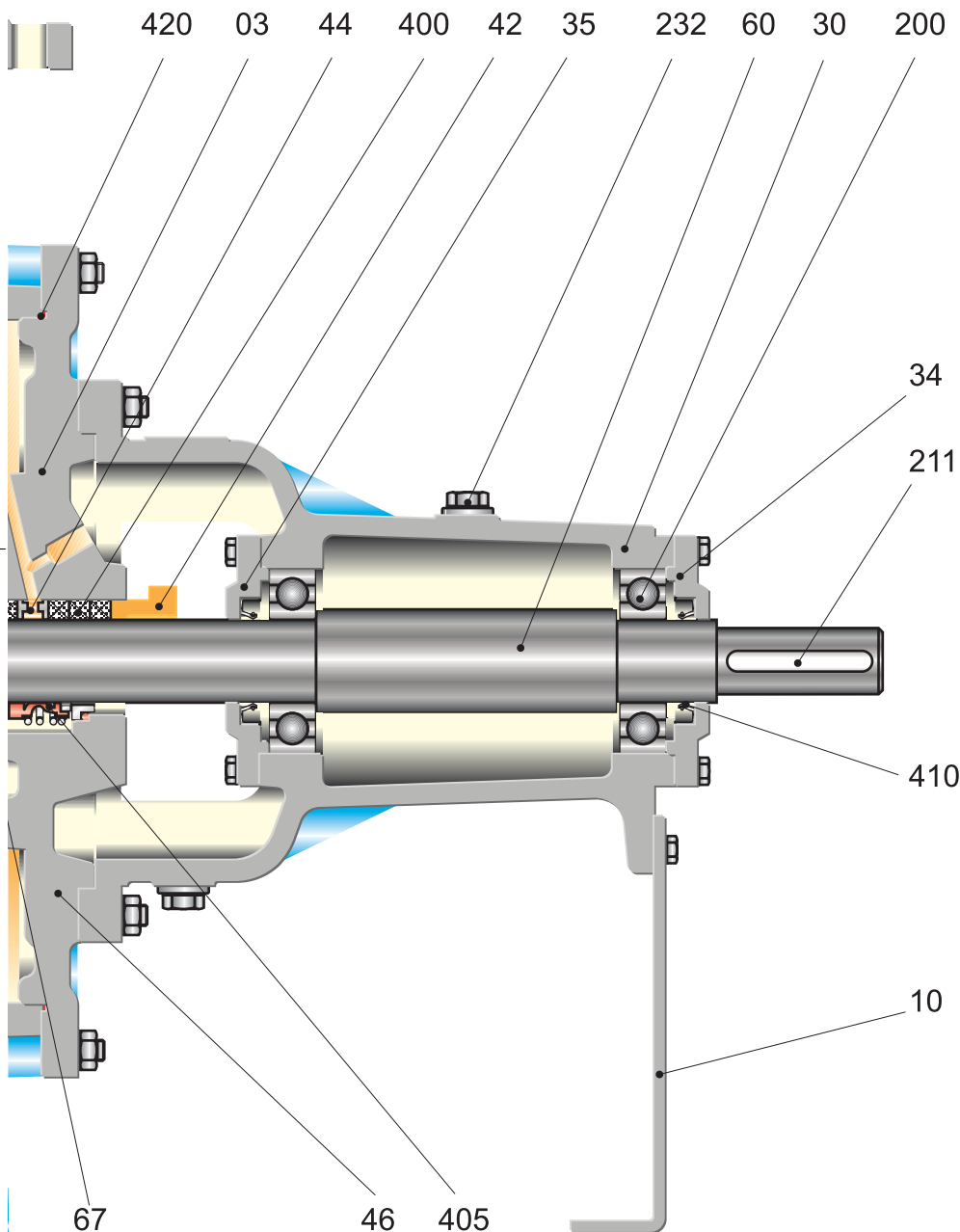
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Caratteristiche idrauliche / Performance range

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Componenti Parts List

- 01 Corpo pompa
Volute casing
- 03 Disco portatenuta
Stuffing box cover
- 10 Piede del telaio
Frame foot
- 21 Disco di usura
Wear plate
- 30 Supporto cuscinetto
Bearing housing
- 34 Coperchio cuscinetto
Bearing cover
- 35 Coperchio cuscinetto
Bearing cover
- 42 Premistoppa
Stuffing box gland
- 44 Anello di flussaggio
Lantern ring
- 46 Vano tenuta meccanica
Mechanical seal box
- 50 Girante
Impeller
- 60 Albero
Pump shaft
- 65 Dado della girante
Impeller nut
- 67 Distanziale
Spacer sleeve
- 200 Cuscinetto a sfere
Ball bearing
- 202 Cuscinetto a rulli
Cylindrical roller bearing
- 203 Cuscinetto a contatto obliquo
Angular contact ball bearings
- 210 Chiavetta girante
Impeller key
- 211 Chiavetta giunto
Coupling key
- 232 Tappo per l'inserimento dell'olio
Oil filling plug
- 300 Prigioniero premistoppa
Gland stud and nut
- 400 Tenuta a baderna
Stuffing box packing
- 405 Tenuta meccanica
Mechanical seal
- 410 Paraolio
Oil seal
- 420 Anello OR
O-Ring

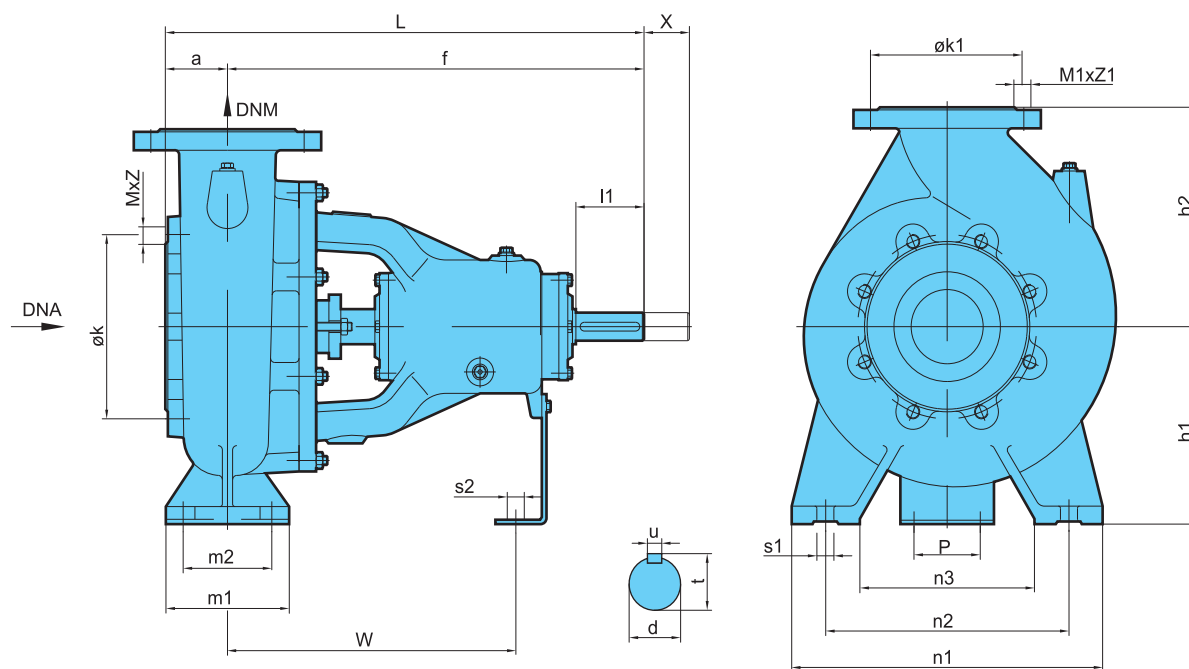


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Dimensioni / Dimensions

NCA



Tipo Type	DNA	DNM	DIMENSIONI (mm) DIMENSIONS (mm)																			DIMENSIONI FLANGE FLANGE DIMENSIONS			
			a	f	L	h1	h2	m1	m2	n1	n2	n3	s1	P	s2	W	d	l1	t	u	x	k	MxZ	k1	M1xZ1
NCA 40-160	50	40	82	348	430	160	180	100	70	240	190	140	14	110	14	247	24	50	27.3	8	120	125	M16x4	110	18x4
NCA 50-160	65	50	100	350	450	160	180	100	70	270	212	160	14	110	14	270	24	50	27.3	8	120	145	M16x4	125	18x4
NCA 50-200	65	50	105	360	465	160	200	100	95	270	210	160	14	110	14	270	24	50	27.3	8	120	145	M16x4	125	18x4
NCA 65-200	80	65	108	372	480	180	225	125	95	330	255	190	14	110	14	260	24	50	27.3	8	120	160	M16x8	145	18x4
NCA 80-160	100	80	83	384	467	180	180	120	85	310	250	190	14	110	14	288	24	50	27.3	8	120	180	M16x8	160	18x8
NCA 80-200	100	80	83	488	571	180	220	125	90	350	280	215	18	110	14	358	32	80	35.3	10	140	180	M16x8	160	18x8
NCA 100-240	125	100	82	492	574	225	250	160	110	370	280	205	20	110	14	357	32	80	35.3	10	140	210	M16x8	180	18x8
NCA 100-270	125	100	97	500	597	275	310	160	110	430	345	270	20	110	14	371	32	80	35.3	10	140	210	M16x8	180	18x8
NCA100-315	125	100	97	500	597	275	310	160	110	430	345	270	20	110	14	371	32	80	35.3	10	140	210	M16x8	180	18x8
NCA 150-315	150	150	119	638	682	280	355	200	150	500	400	300	23	110	14	445	42	110	45.3	12	190	240	M20x8	240	23x8
NCA 150-500	150	150	126	777	903	425	600	250	200	720	600	435	27	140	20	557	55	110	59	16	120	240	M20x8	240	23x8
NCA 200-315	200	200	165	707	872	355	450	250	200	600	500	360	24	110	14	543	48	110	51.3	12	250	295	M20x8	295	23x8
NCA 200-400	200	200	142	757	899	380	530	250	200	600	500	360	24	140	20	536	55	110	59.3	16	235	295	M20x8	295	23x8
NCA 200-500	200	200	126	777	903	425	600	250	200	720	600	435	27	140	20	557	55	110	59	16	120	295	M20x8	295	23x8
NCA 250-315	200	250	145	1003	1148	335	475	300	230	680	540	400	27	140	20	753	70	140	74.9	20	265	295	M20x8	350	23x12
NCA 300-400	300	300	201	974	1175	400	560	300	240	720	600	435	27	140	20	730	75	140	79.9	20	285	400	M20x12	400	23x12



Dati Tecnici / Technical Data

NCA

Materiali / Material Options

Componenti / Parts List	0.6025	0.7040	1.0619	1.4308	1.4309	1.4408	1.4409	2.1050.01	2.1090.01	1.4138	1.0501	1.1191	1.4021	1.4301	1.4306	1.4401	1.4404
Corpo pompa / Volute casing	○	●	○	○	○	○	○	○	○								
Coperchio baderna / Stuffing box cover	○	●	○	○	○	○	○	○	○								
Girante / Impeller	○	●	○	○	○	○	○	○	○								
Albero / Shaft											●	○	○	○	○	○	○
Supporto cuscinetto / Bearing housing	●	○	○	○	○	○	○	○	○								
Anello di usura / Wear ring (Casing)	○	●	○	○	○	○	○	○	○	○							
Disco di usura / Wear plate	○	○	○	○	○	○	○	○	○								
Bussola protezione albero / Shaft protecting sleeve											○	○	○	○	○	●	○
Tenuta meccanica / Mechanical seal (*)																	

EN 12756 / DIN 24960

(*) A richiesta: tenute di materiali e marche diverse

(*) Optional : Depending on customer requirement or request different types and brands of mechanical seals are applicable.

● Standard

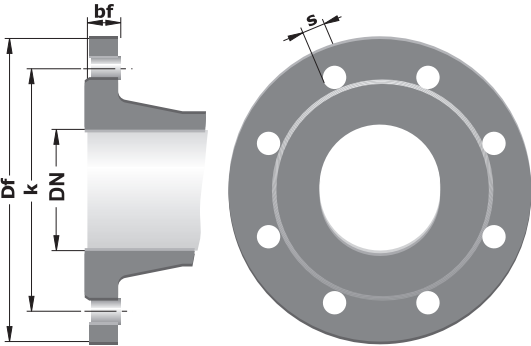
○ A richiesta / Optional

Corrispondenza dei materiali / Material Equivalents

Descrizione / Description	DIN 17007	EN-DIN	ASTM
Ghisa / Cast iron	0.6025	GJL-250 (GG 25)	A 48 Class 40-B
Ghisa sferoidale / Nodular cast iron	0.7040	GJS-400-15 (GGG 40)	A 536 Gr. 60-40-18
Acciaio (fusione) / Cast steel	1.0619	GP240GH (GS-C 25)	A 216 Gr. WCB
Acciaio inossidabile (fusione) / Cast stainless steel	1.4308	G-X5 Cr Ni 19-10	A 351/743/744 Gr. CF8
Acciaio inossidabile (fusione) / Cast stainless steel (low carbon)	1.4309	G-X2 Cr Ni 19-11	A 351/743/744 CF3
Acciaio inossidabile (fusione) / Cast stainless steel	1.4408	G-X5 Cr Ni Mo 19-11-2	A 351/743/744 Gr. CF8M
Acciaio inossidabile (fusione) / Cast stainless steel (low carbon)	1.4409	G-X2 Cr Ni Mo 19-11-2	A 351/743/744 CF3M
Bronzo (fusione) / Cast bronze	2.1050.01	G-Cu Sn 10	B 584 C 90700
Bronzo (fusione) / Cast bronze	2.1090.01	G-Cu Sn 7 Zn Pb	B 584 C 93200
Acciaio inossidabile (fusione) / Cast stainless steel	1.4138	G-X120 Cr Mo 29-2	-
Acciaio al carbonio / Carbon steel	1.0501	C 35	A 29/108/576 1035
Acciaio al carbonio / Carbon steel	1.1191	C 45 E (Ck 45)	A 29/108/576 1045
Acciaio inossidabile / Stainless steel	1.4021	X20 Cr 13	A 276 Type 420
Acciaio inossidabile / Stainless steel	1.4301	X5 Cr Ni 18-10	A 276 Type 304
Acciaio inossidabile / Stainless steel (low carbon)	1.4306	X2 Cr Ni 19-11	A 276 Type 304L
Acciaio inossidabile / Stainless steel	1.4401	X5 Cr Ni Mo 17-12-2	A 276 Type 316
Acciaio inossidabile / Stainless steel (low carbon)	1.4404	X2 Cr Ni Mo 17-12-2	A 276 Type 316 L

Dimensioni Flange / Flange Dimensions

Dimensioni Flange (PN 10) Flange Dimensions (PN 10)					
DN	Df	k	s	n	bf
40	150	110	19	4	18
50	165	125	19	4	20
65	185	145	19	4	20
80	200	160	19	8	22
100	220	180	19	8	24
125	250	210	19	8	26
150	285	240	23	8	26
200	340	295	23	8	26
250	495	350	23	12	28
300	445	400	23	12	28



"n" = numero di fori / number of holes



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Giranti per pompe NCA / Impellers for NCA pumps

Tipo Type	Descrizione / Description
VX	Girante tipo Vortex / <i>Vortex impeller</i>
AB	Girante semiaperta / <i>Semi open impeller</i>
RX	Girante vortex a vani radiali / <i>Vortex impeller with radial vanes</i>
1K	Girante chiusa monocanale / <i>Closed impeller 1 vane</i>
2K	Girante chiusa a due canali / <i>Closed impeller 2 vanes</i>
3K	Girante chiusa a tre canali / <i>Closed impeller 3 vanes</i>
G	Girante grande / <i>Wide impeller</i>

INDICE

Curve di prestazioni pompe a 1000 1/min
Performances curve of 1000 r.p.m. pumps

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Curve di prestazioni pompe a 1500 1/min
Performances curve of 1500 r.p.m. pumps

pag. 20

Curve di prestazioni pompe a 3000 1/min
Performances curve of 3000 r.p.m. pumps

pag. 30

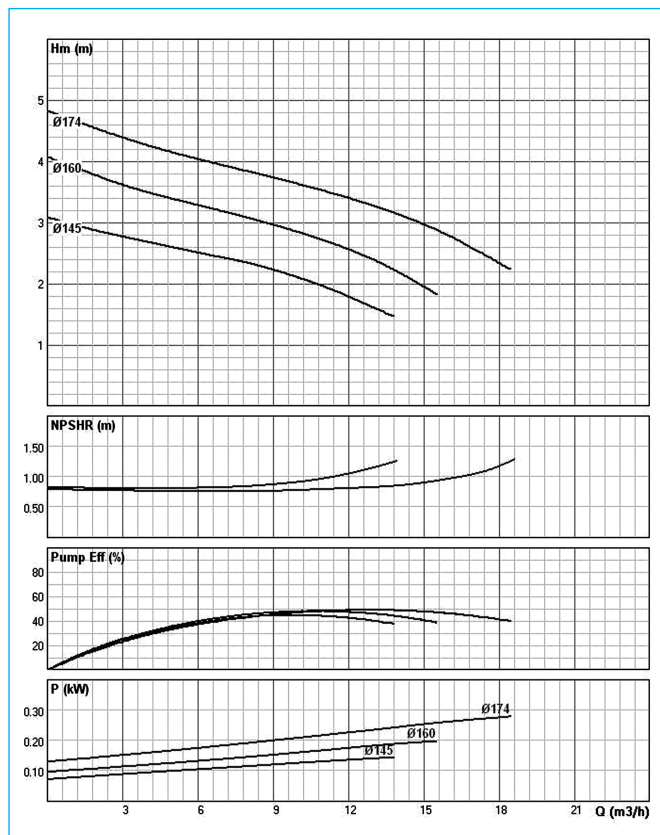


Prestazioni delle pompe a 1000 1/min
Performances of 1000 r.p.m. pumps

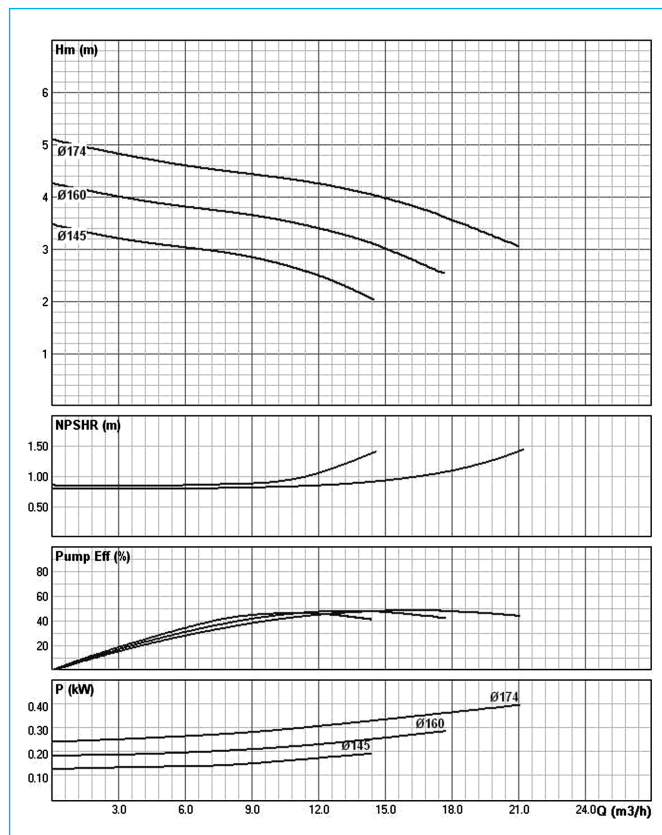
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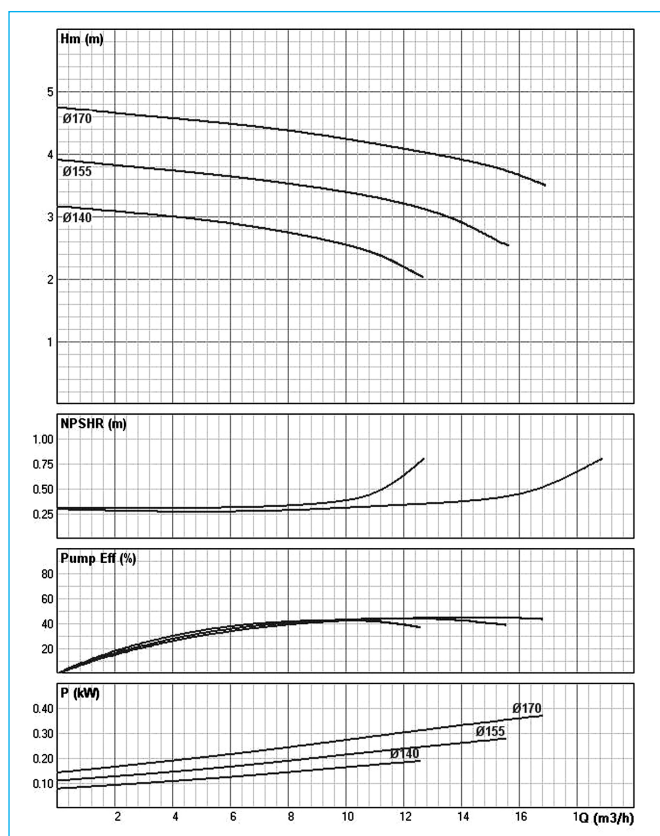
NCA 40-160-2K



NCA 40-160-3K

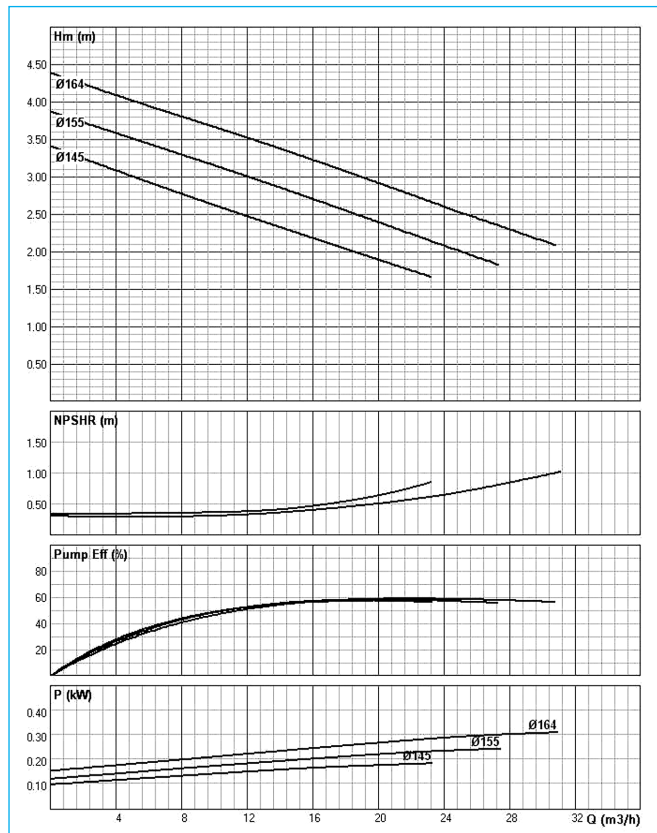


NCA 40-160-RX

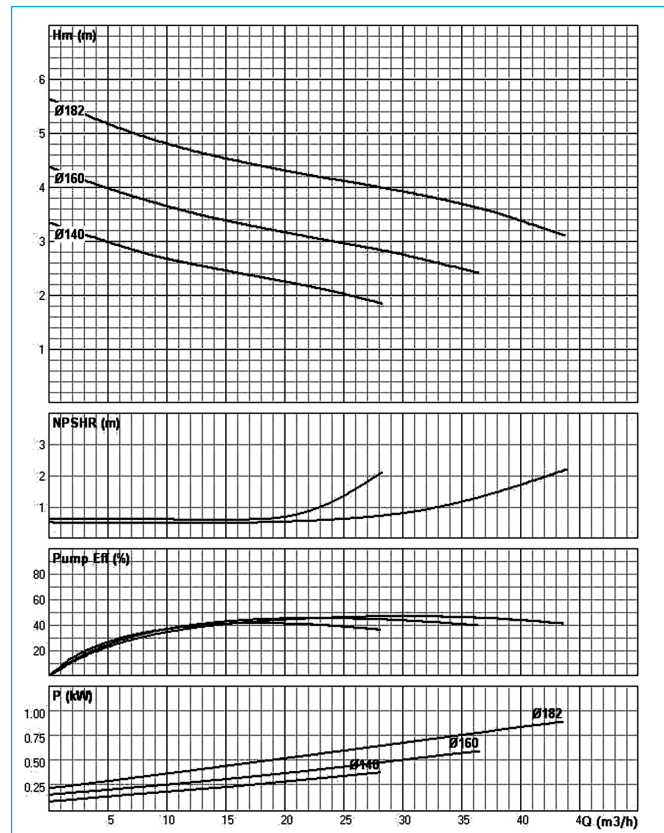


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A

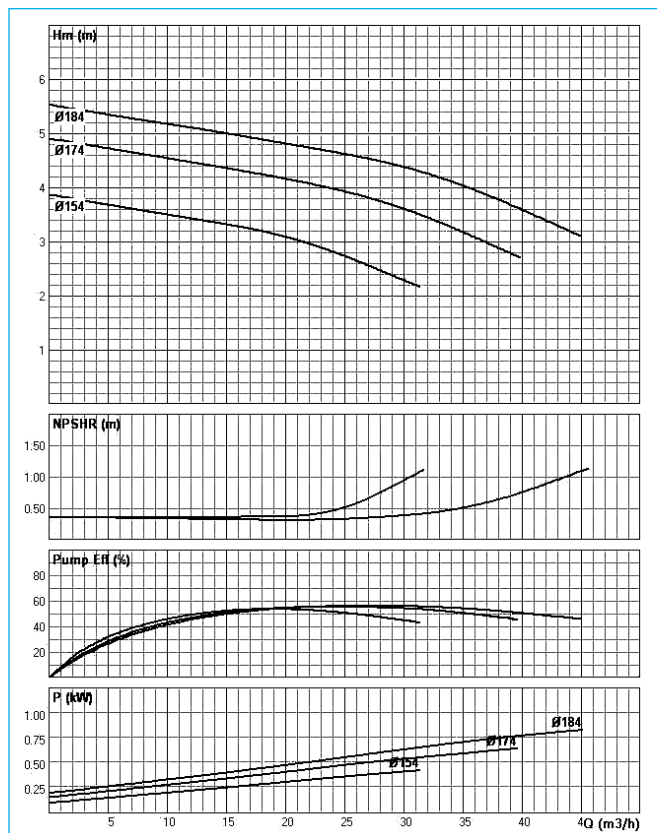
NCA 50-160-2K



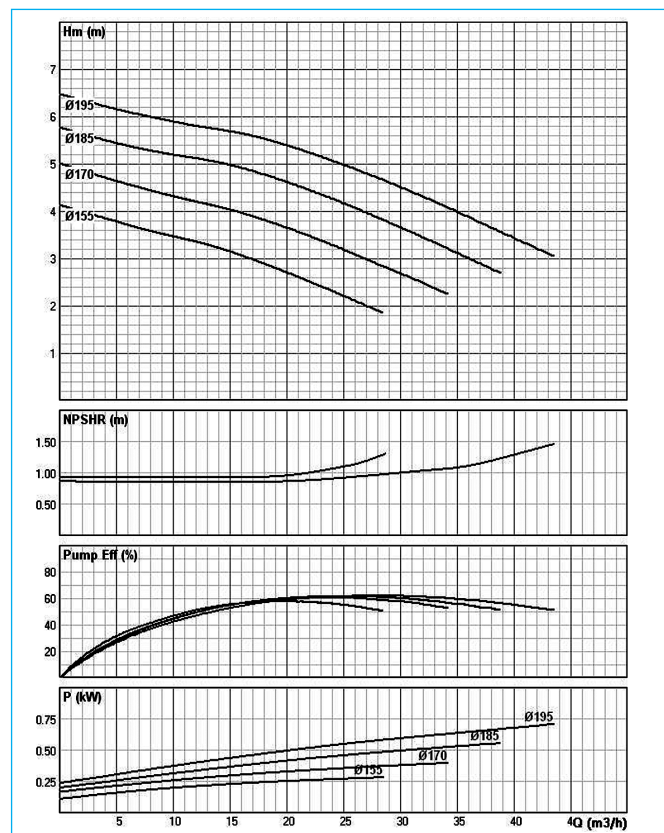
NCA 50-160RX



NCA 50-160VX



NCA 50-200-2K

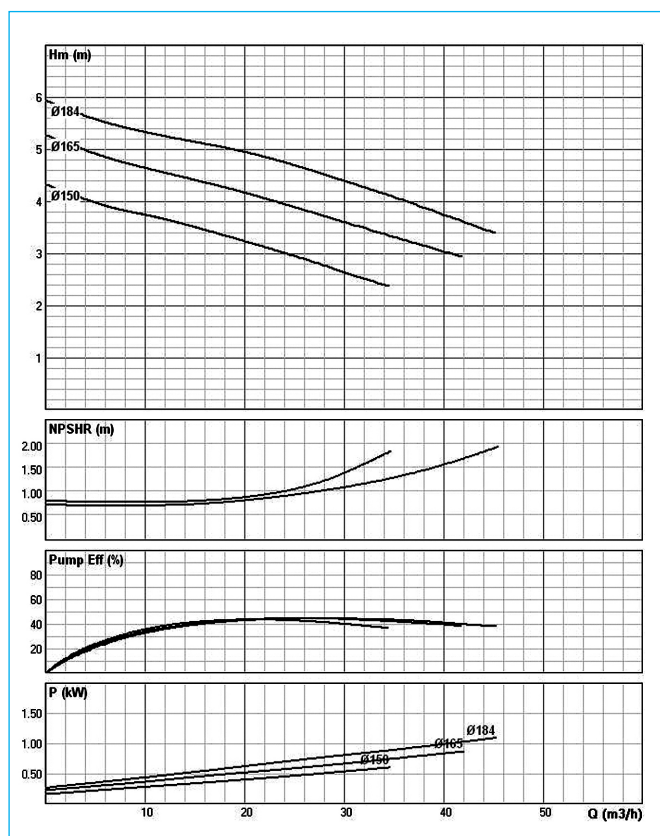


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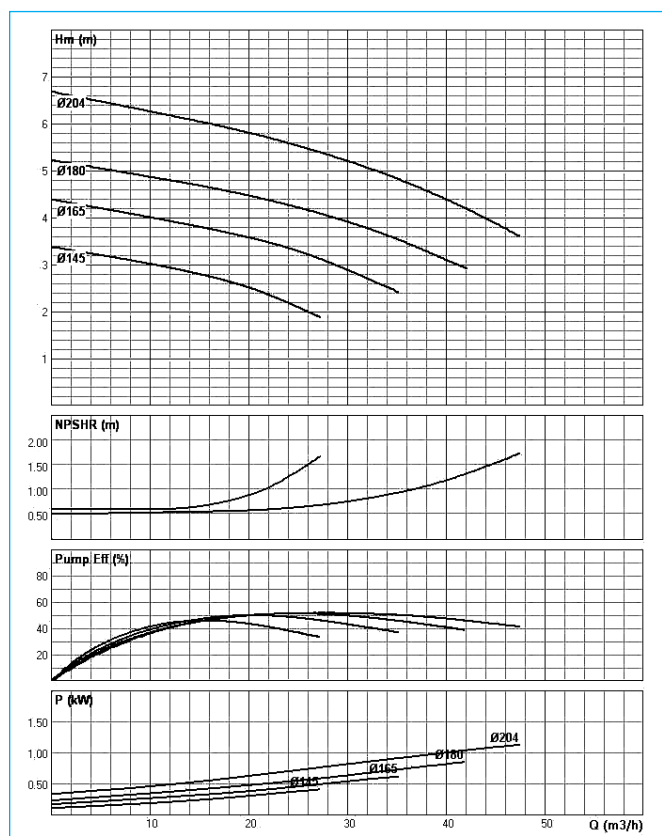
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NCA 50-200RX

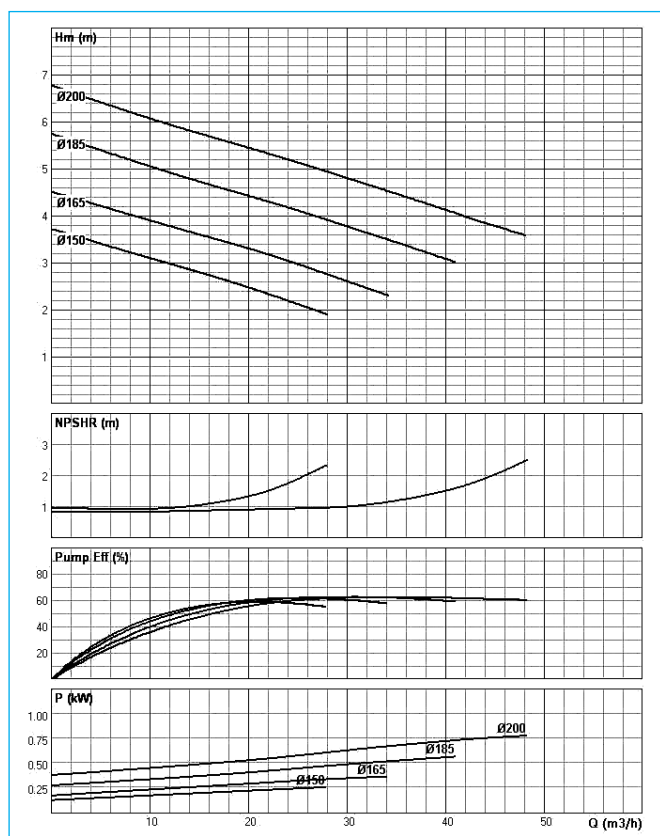


NCA 50-200VX

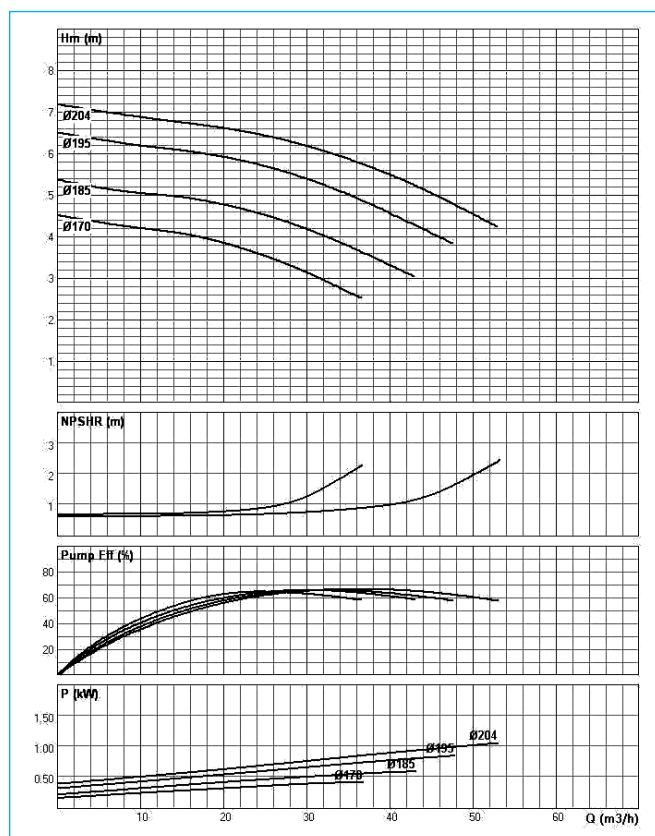


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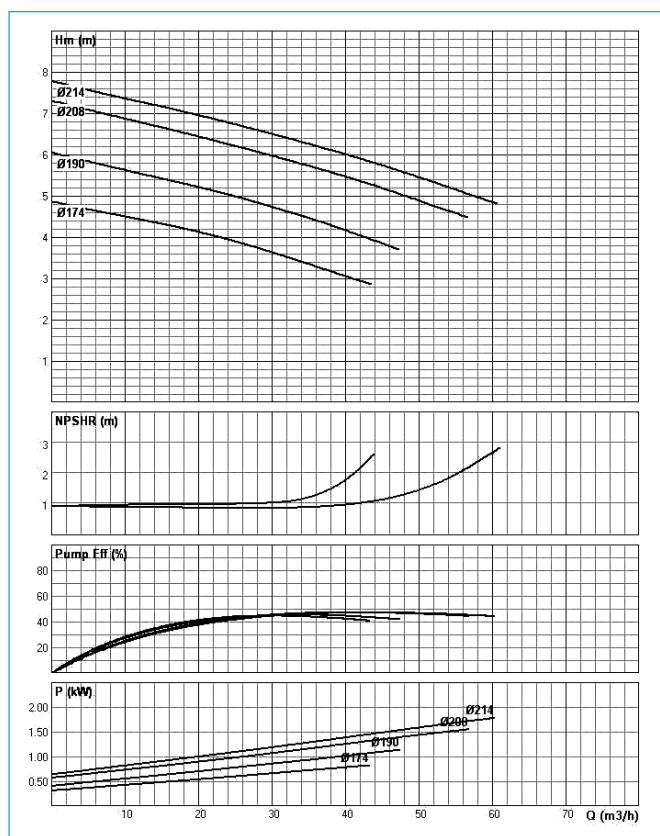
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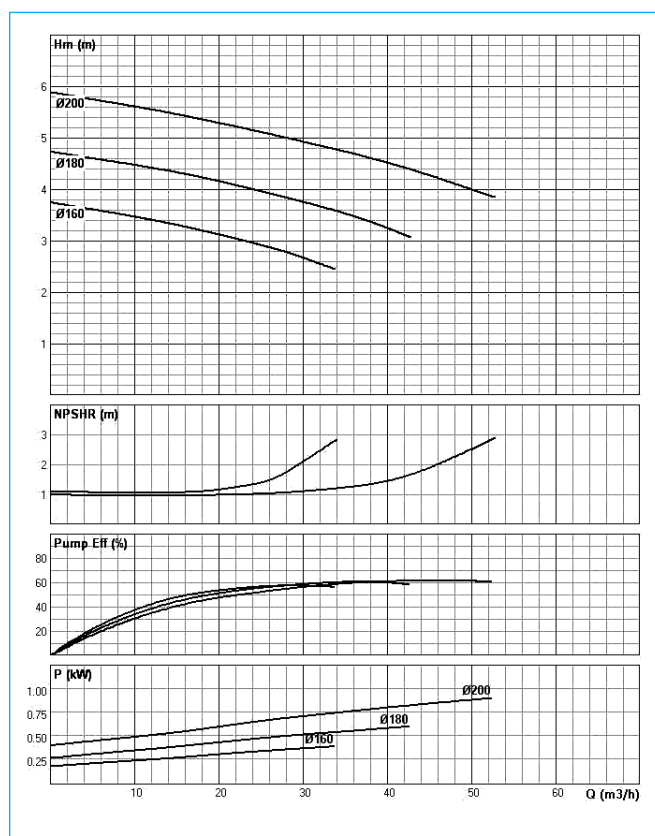
NCA 65-200-3K



NCA 65-200RX



NCA 65-200VX

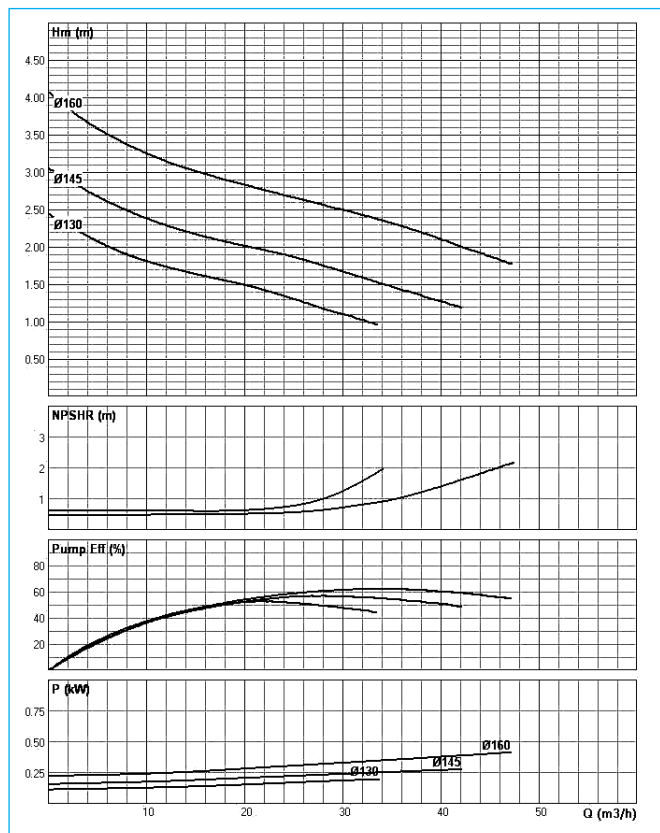


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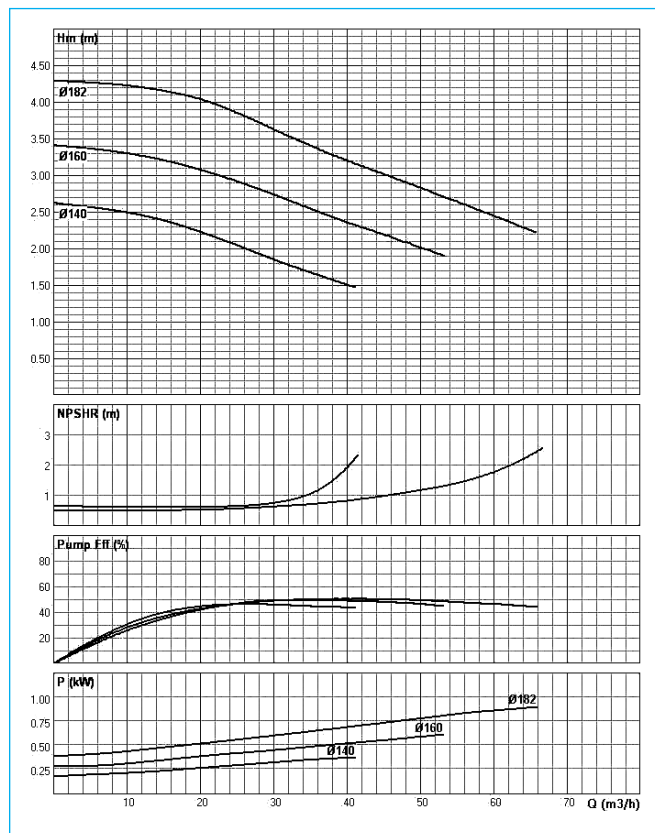
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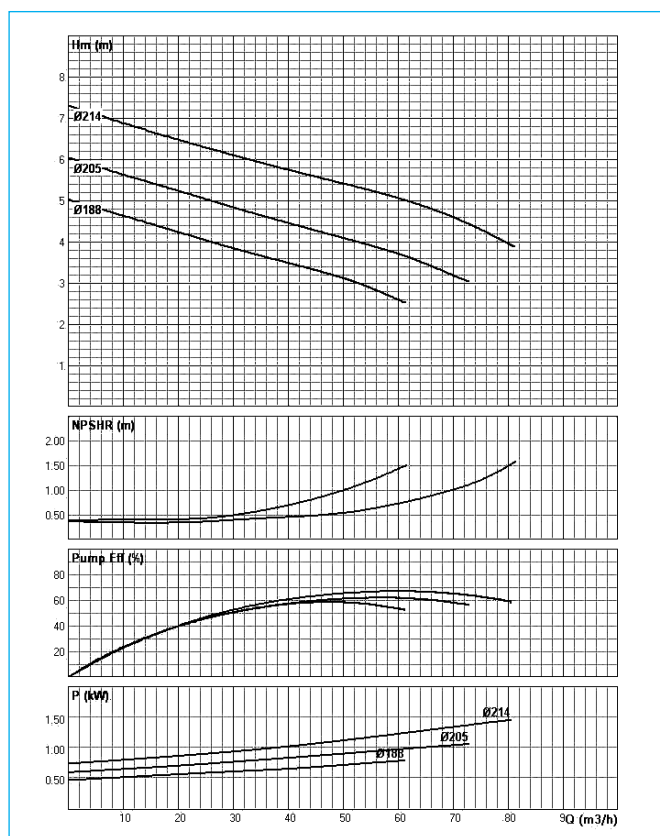
NCA 80-160-2K



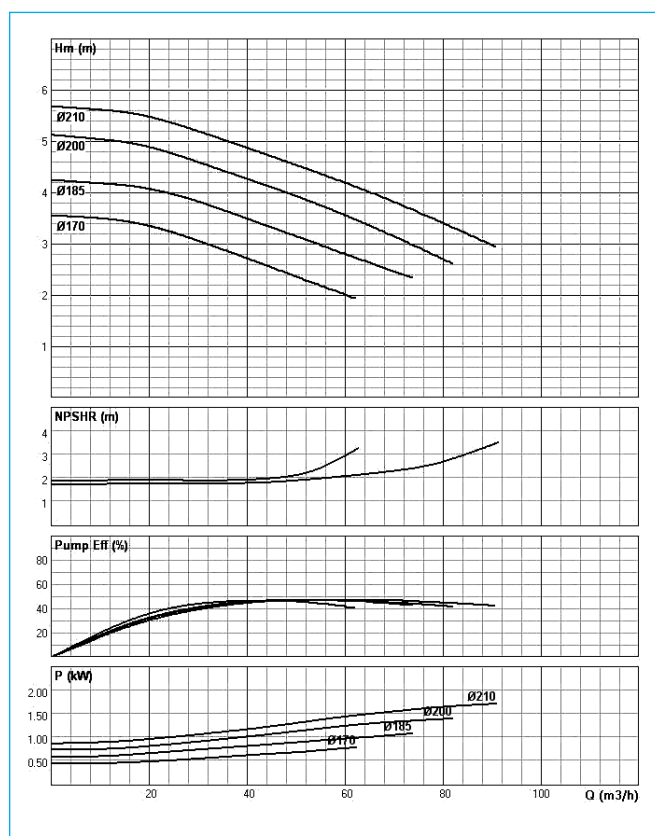
NCA 80-160VX



NCA 80-200B-2K

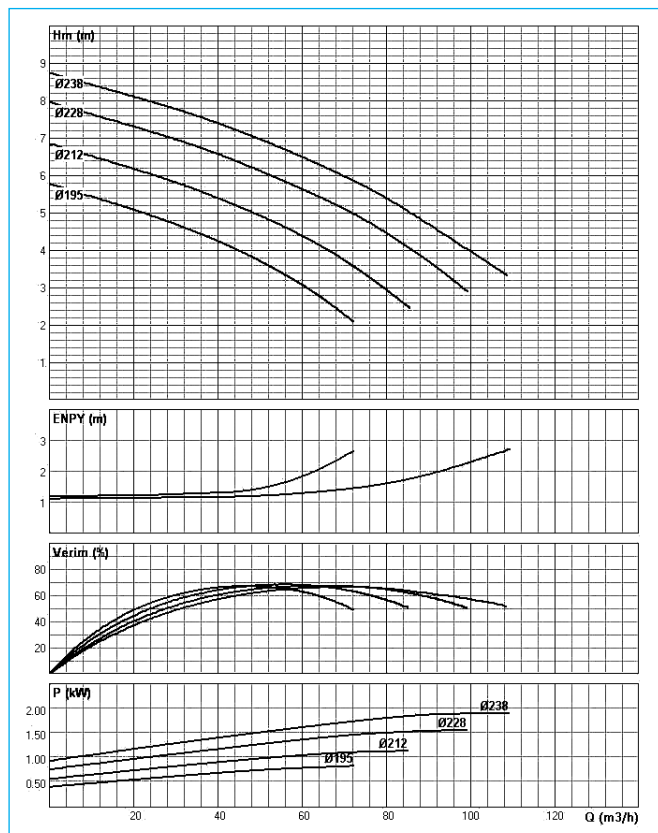


NCA 80-200VX

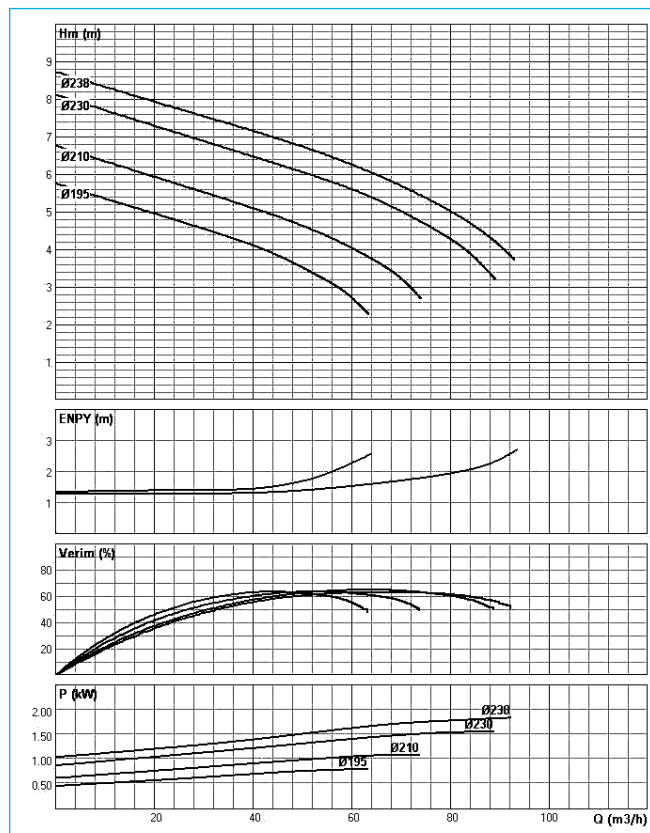


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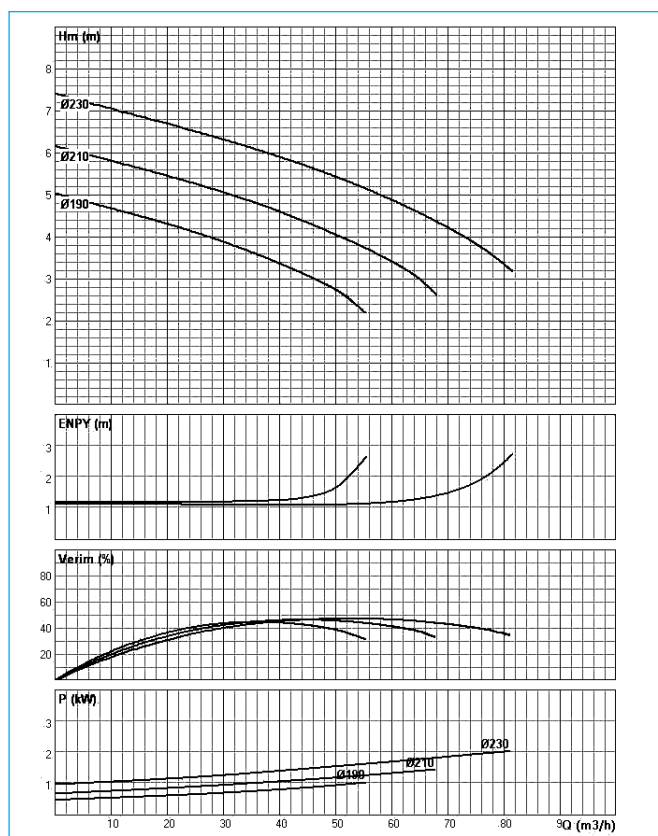
NCA 100-240AB



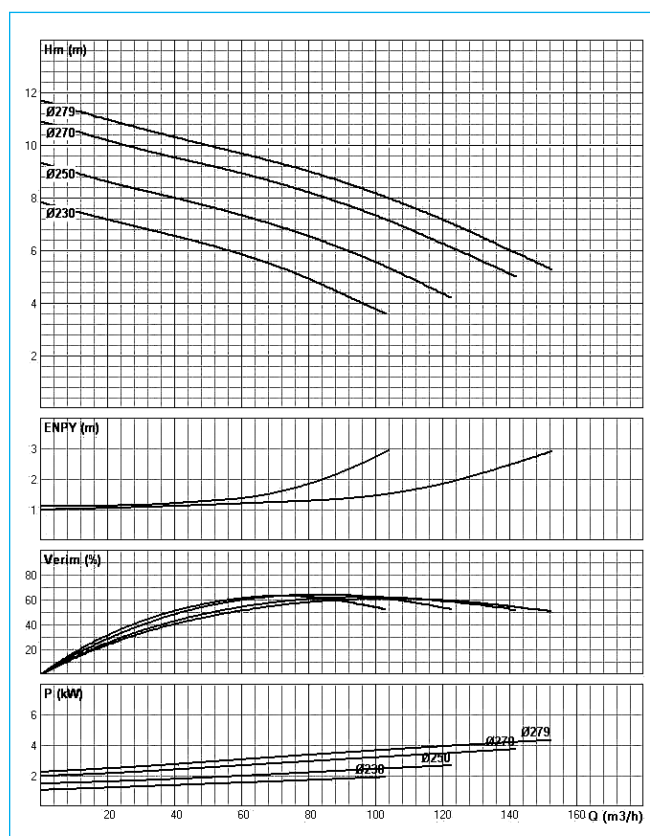
NCA 100-240B-2K



NCA 100-240VX



NCA 100-270AB

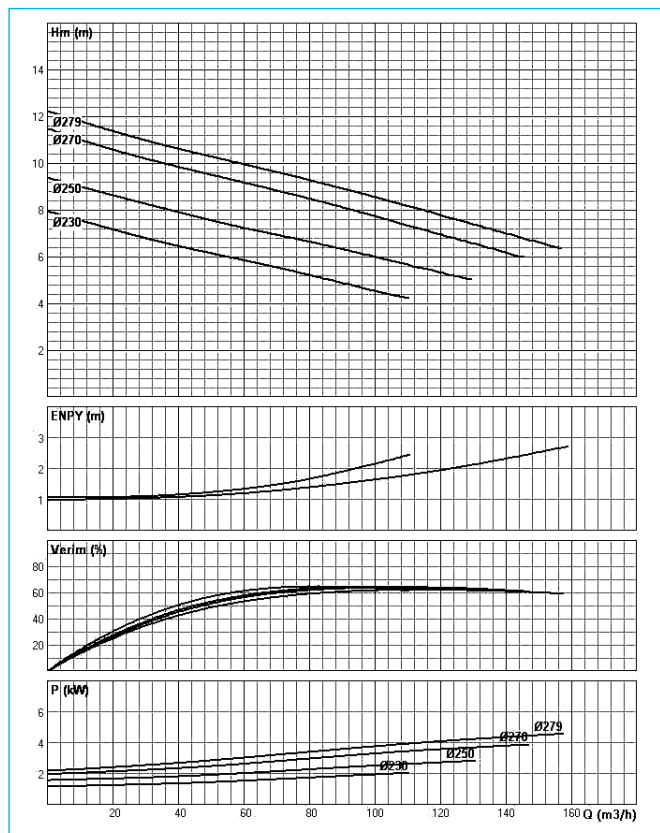


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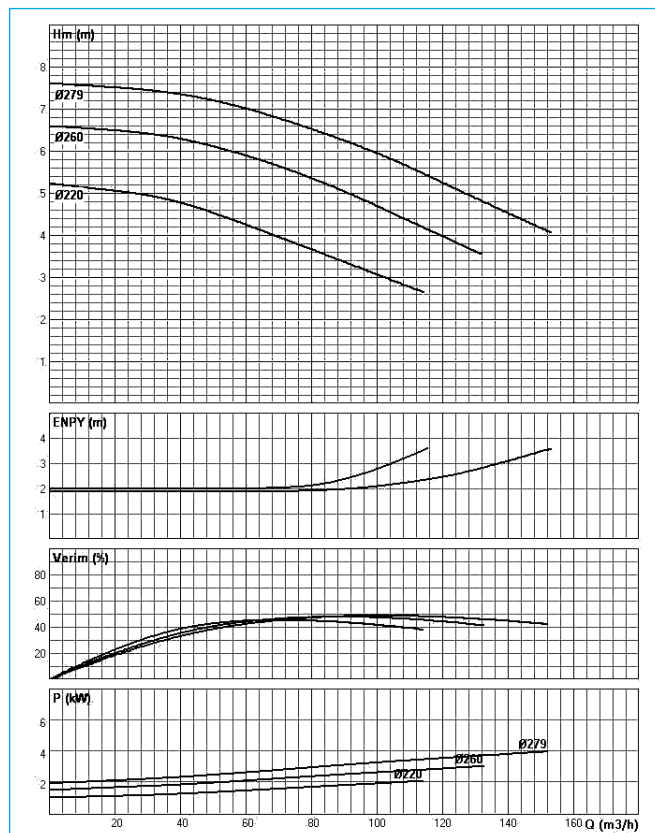
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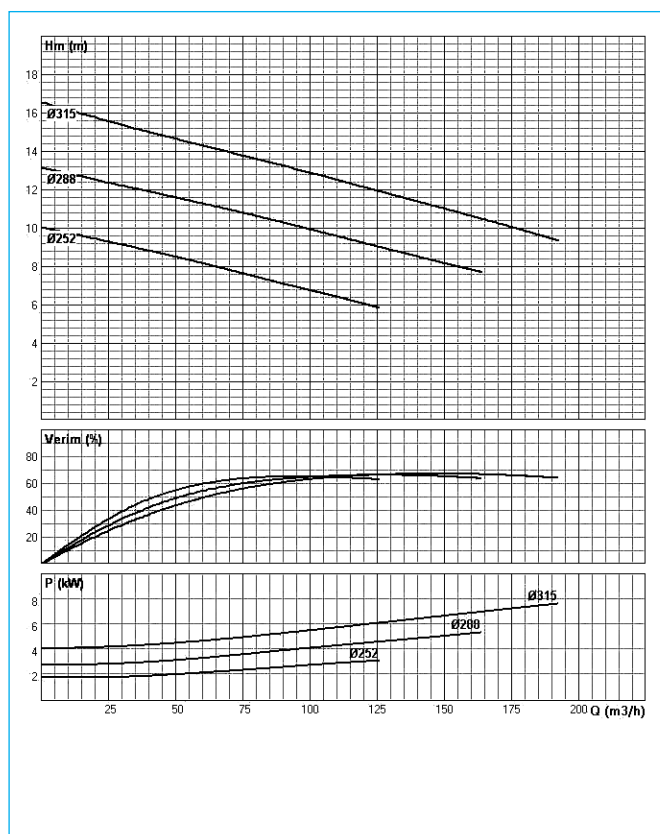
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NCA 100-270VX

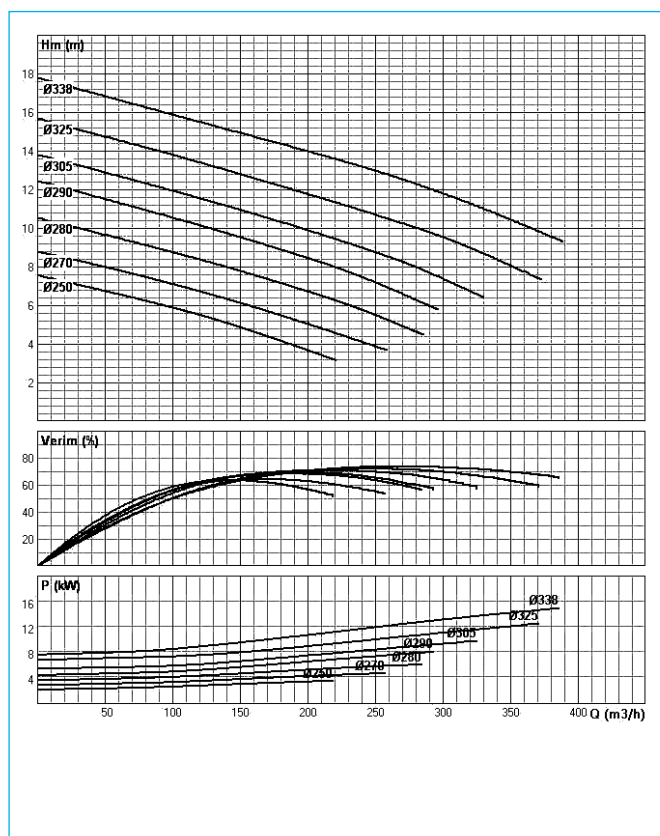


NCA 100-315

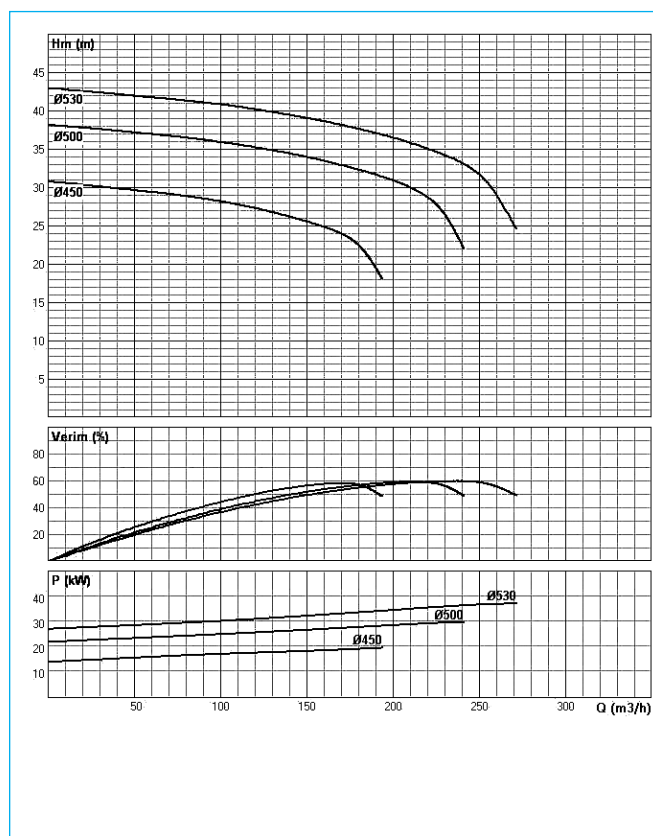


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A

NCA 150-315



NCA 150-500

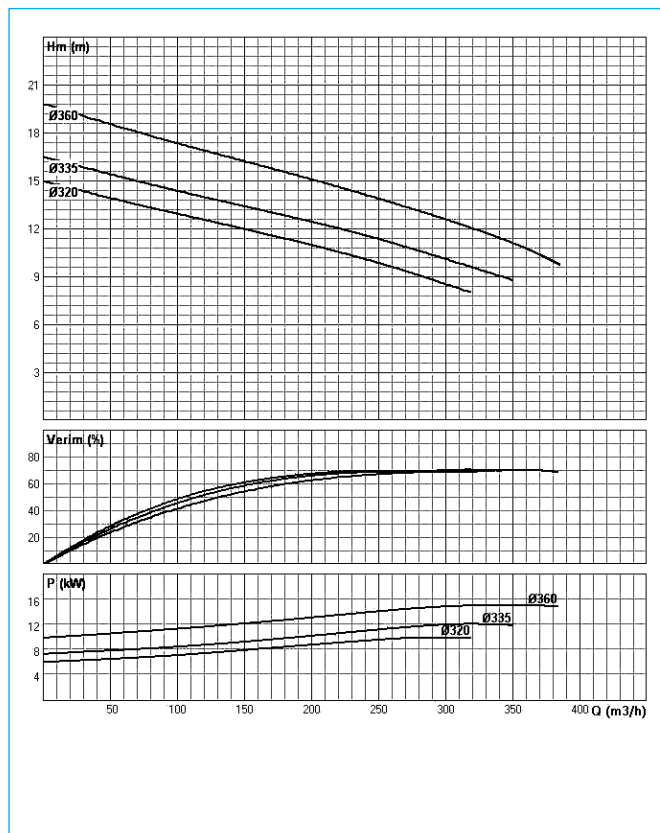


Le curve di prestazione sono basate su valori di viscosità cinematica = $1 \text{ mm}^2/\text{s}$ e densità pari a 1000 kg/m^3 . Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = $1 \text{ mm}^2/\text{s}$ and density equal to 1000 kg/m^3 . Tolerance and curves according to UNI EN ISO 9906 - Attachment A

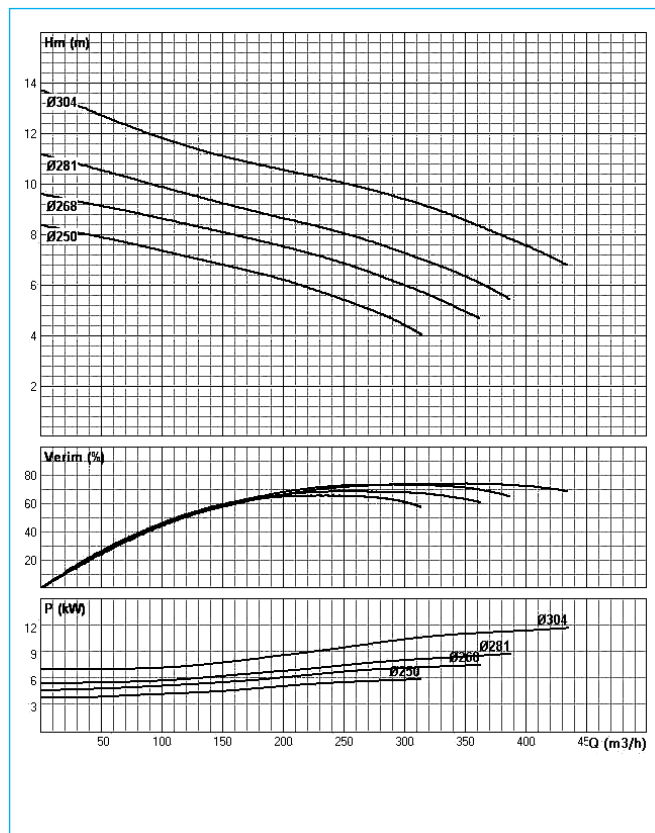
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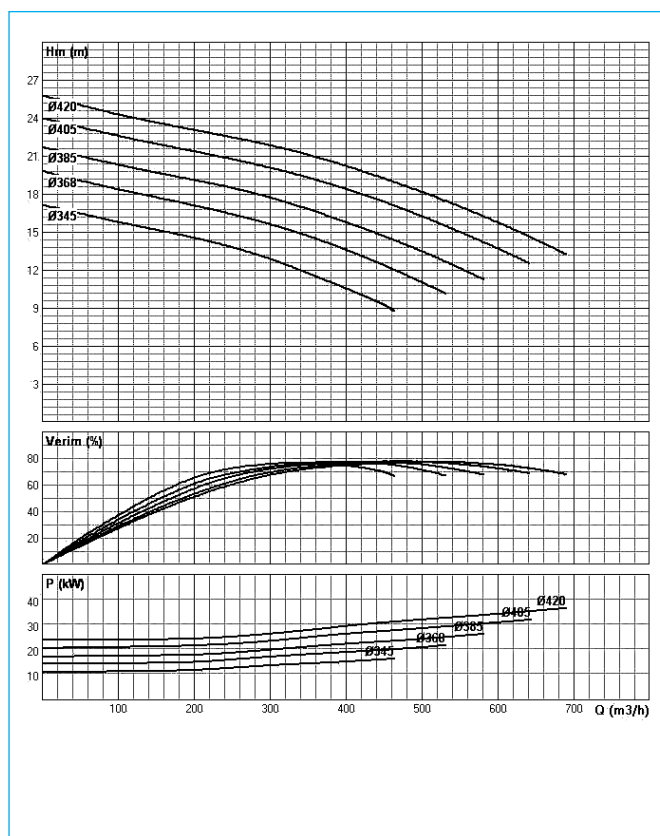
NCA 200-315



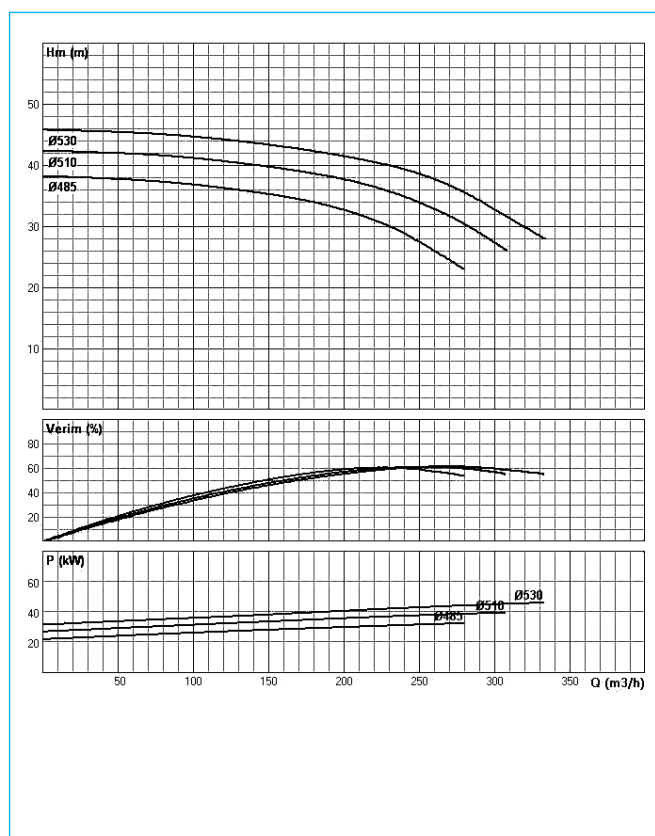
NCA 200-315G



NCA 200-400

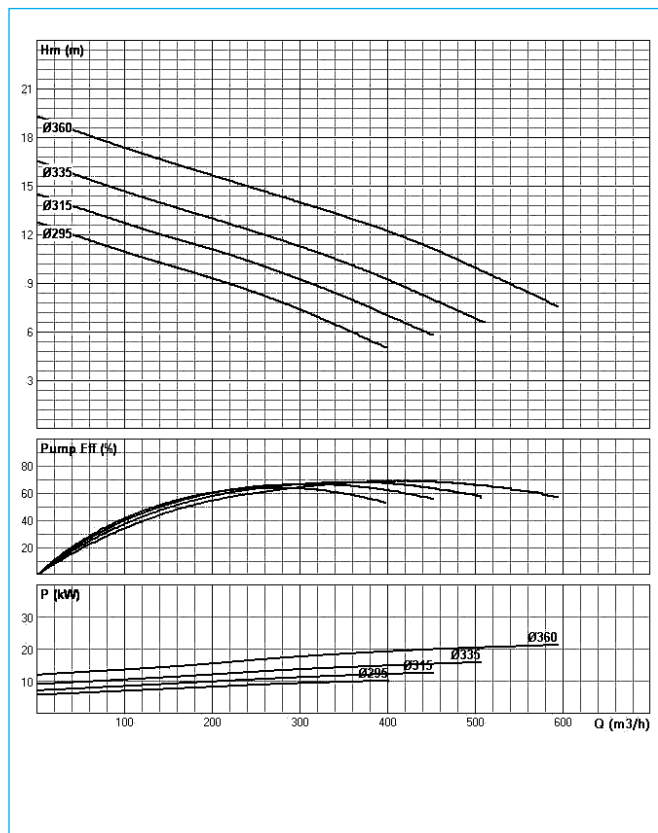


NCA 200-500

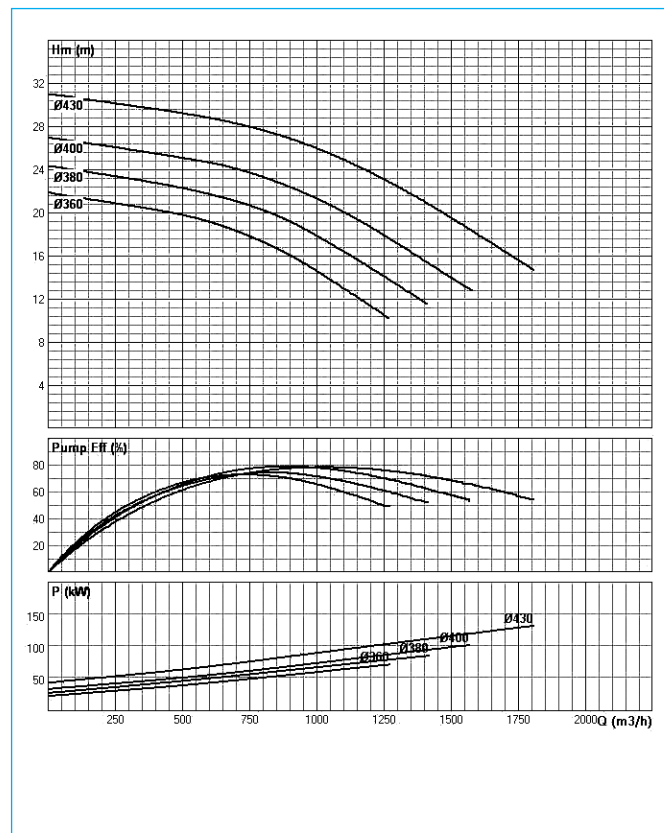


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A

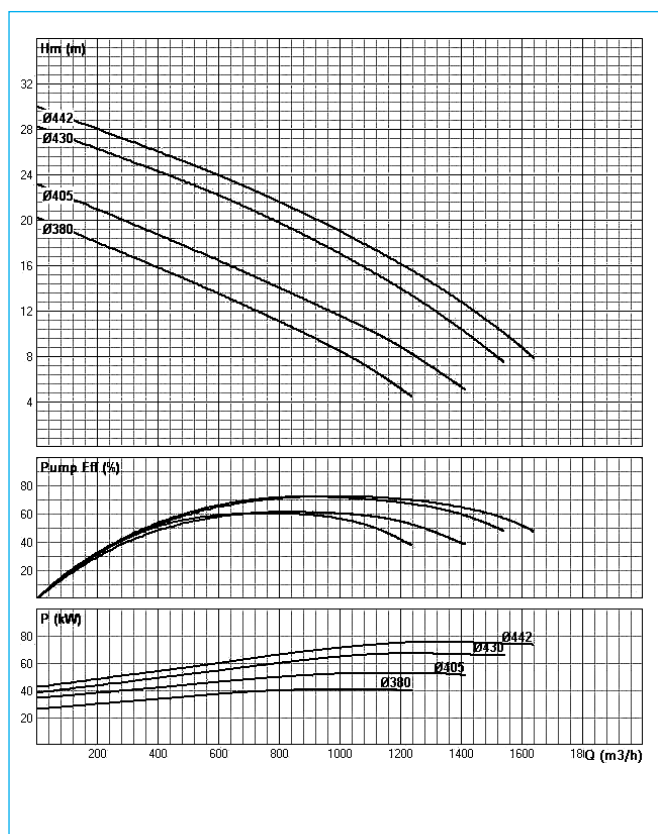
NCA 250-315AB



NCA 300-400



NCA 300-400-3K

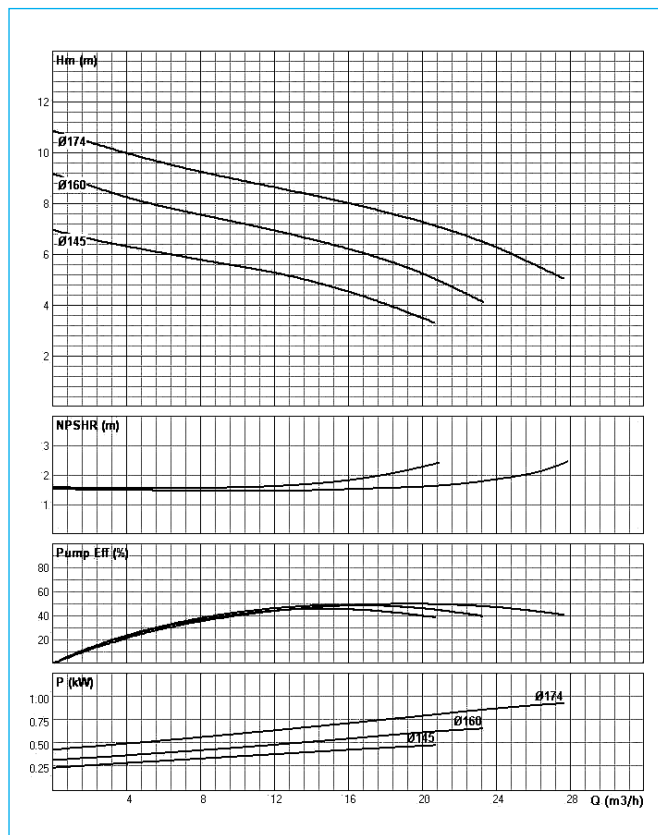


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A

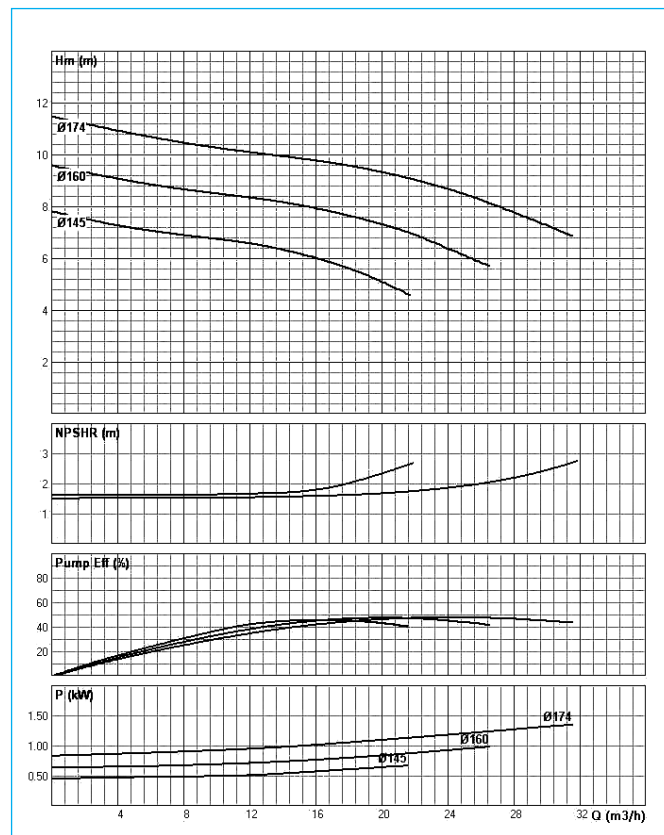


Prestazioni delle pompe a 1500 1/min
Performances of 1500 r.p.m. pumps

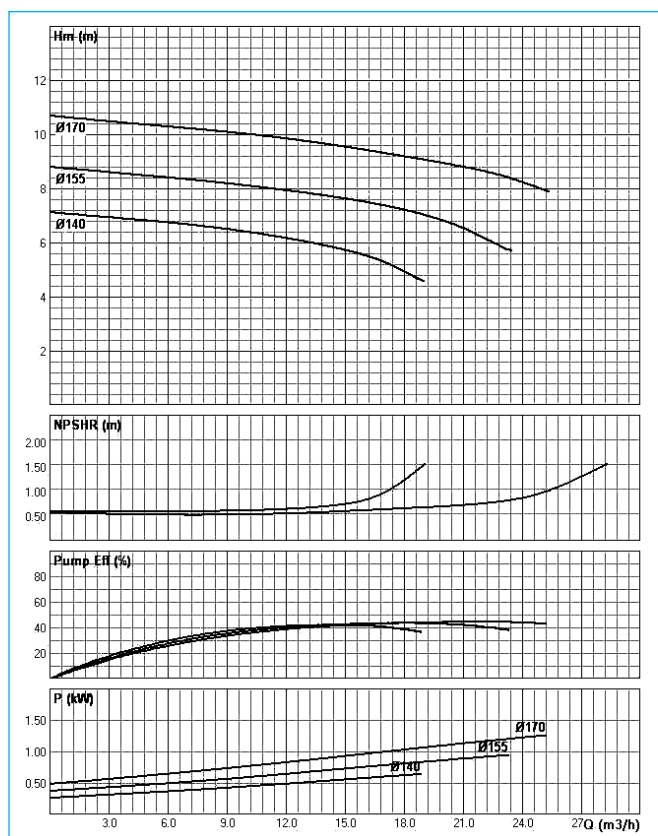
NCA 40-160-2K



NCA 40-160-3K



NCA 40-160-RX

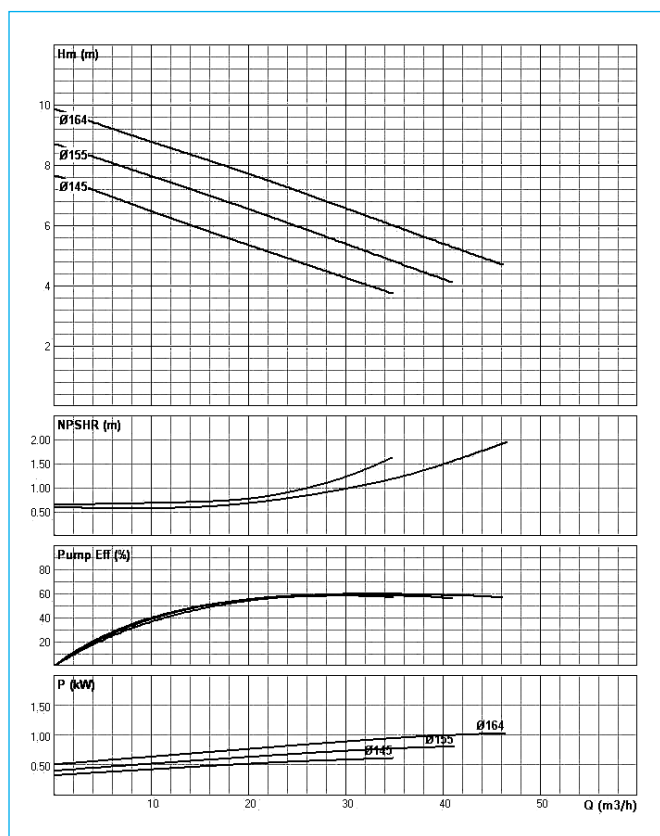


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A

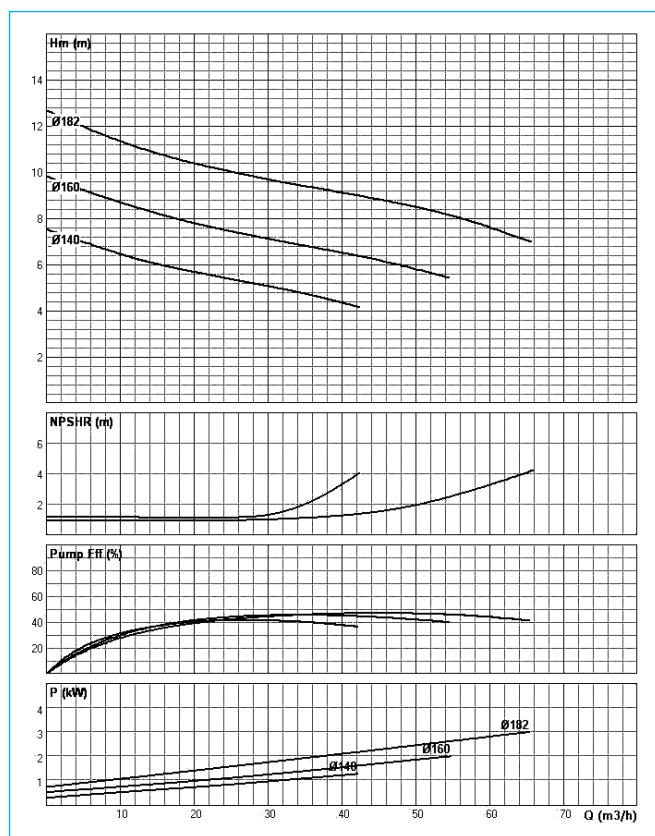
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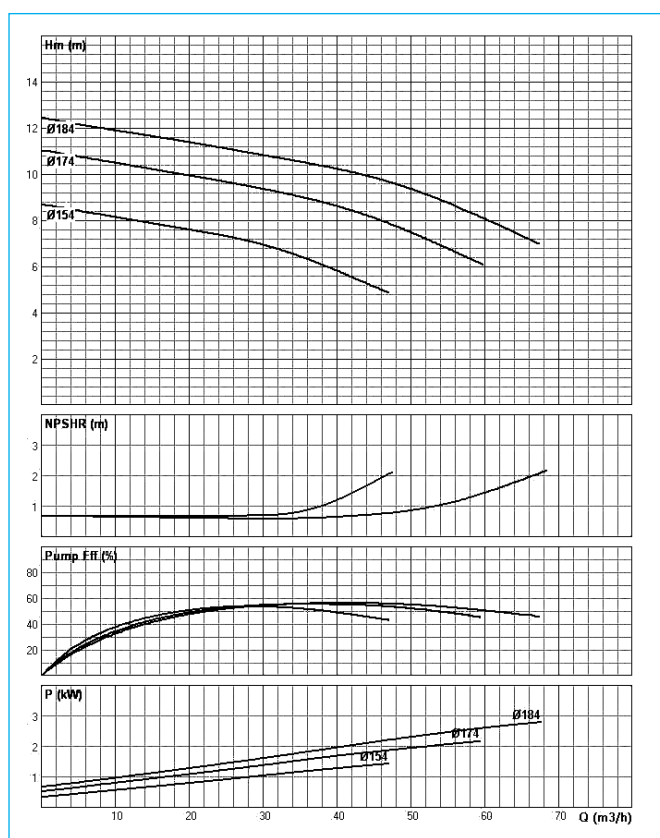
NCA 50-160-2K



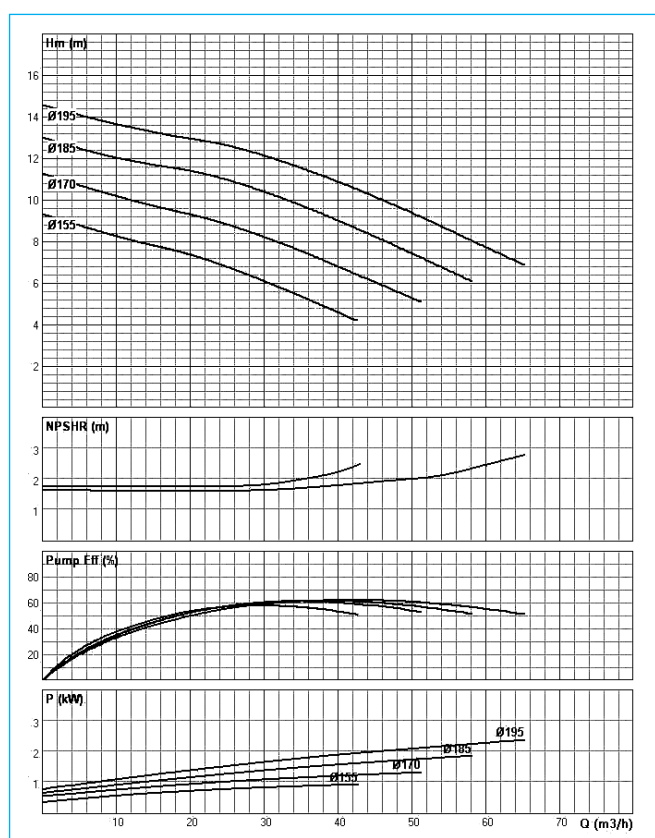
NCA 50-160RX



NCA 50-160VX



NCA 50-200-2K

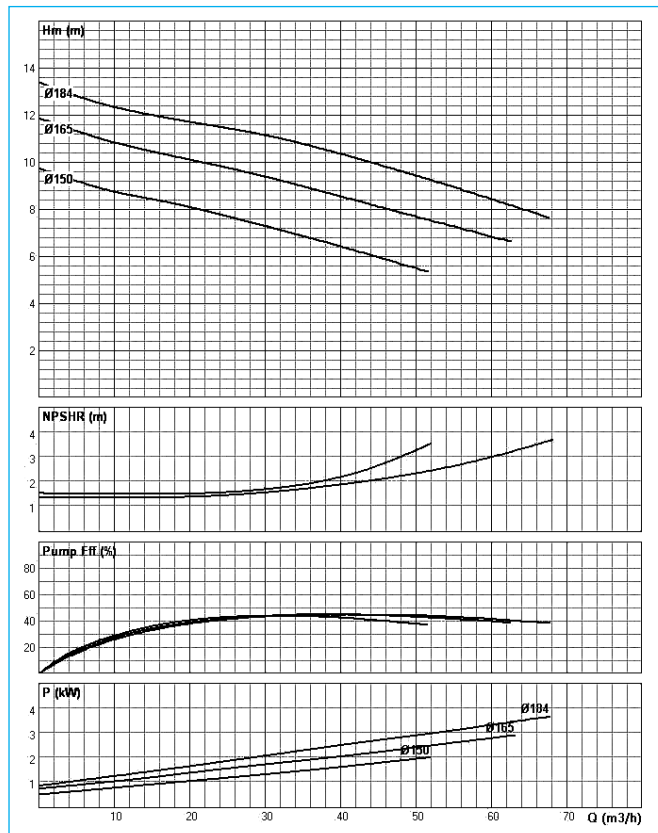


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A

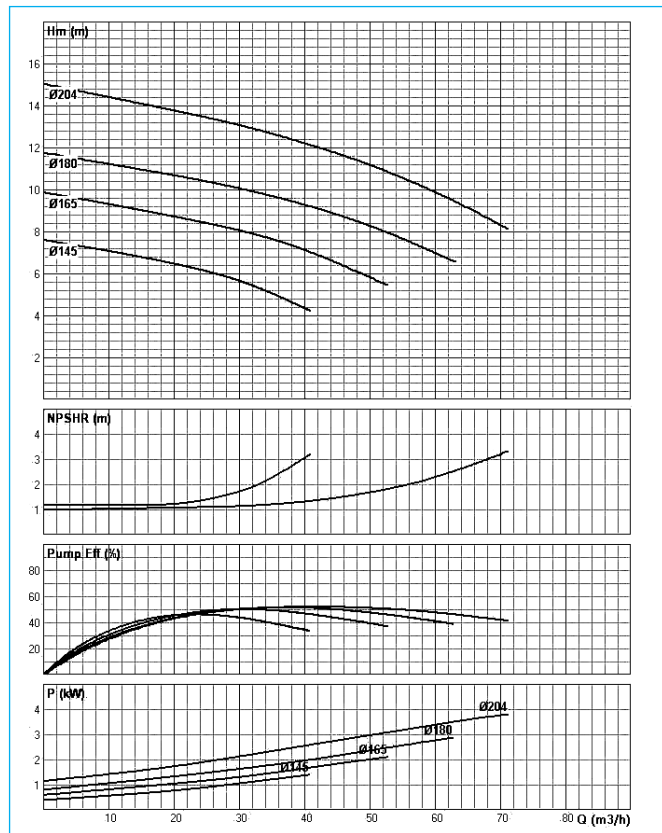
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NCA 50-200RX



NCA 50-200VX

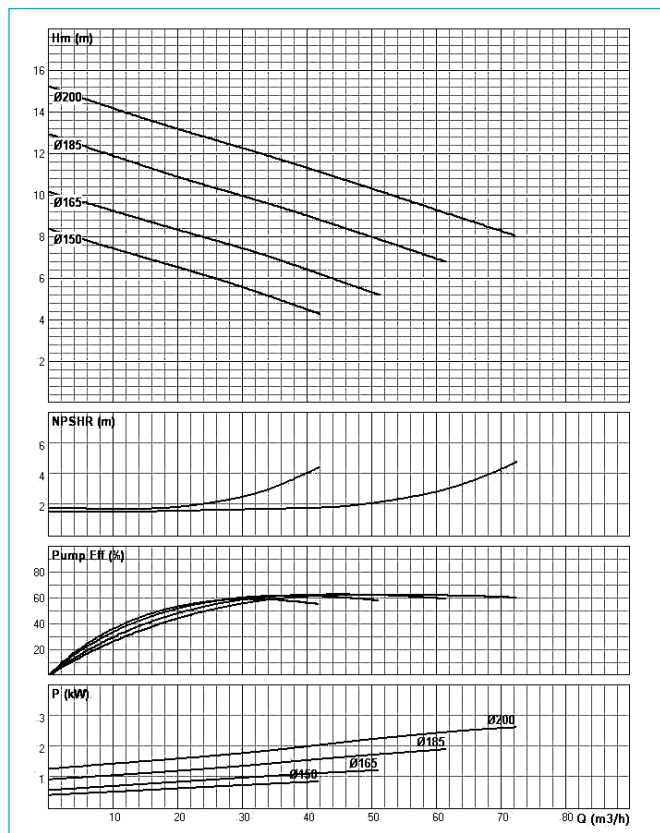


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A

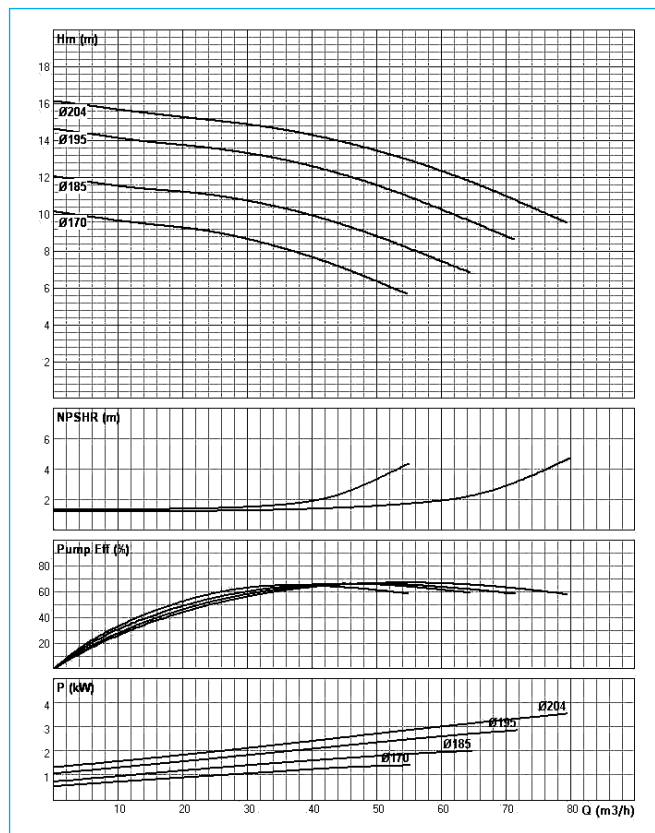
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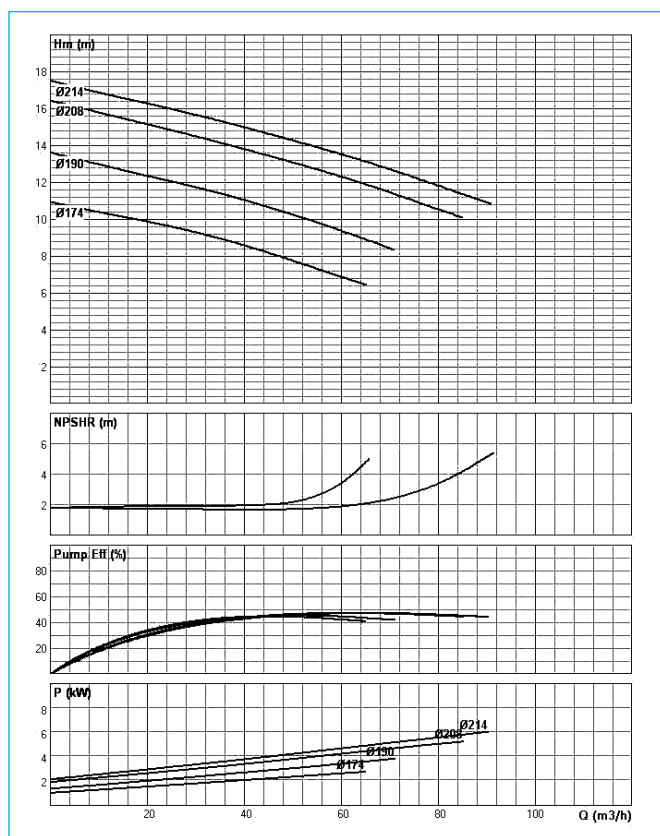
NCA 65-200-2K



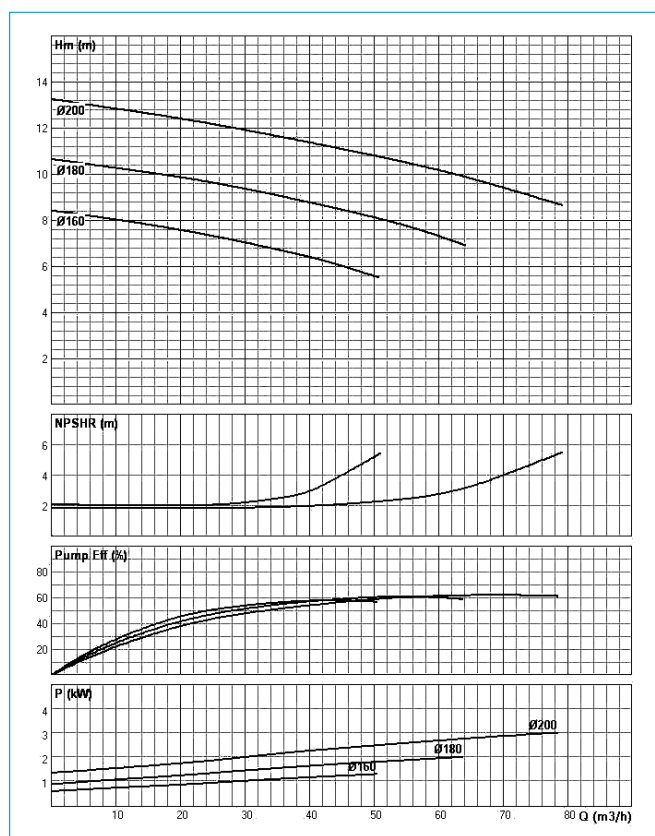
NCA 65-200-3K



NCA 65-200RX

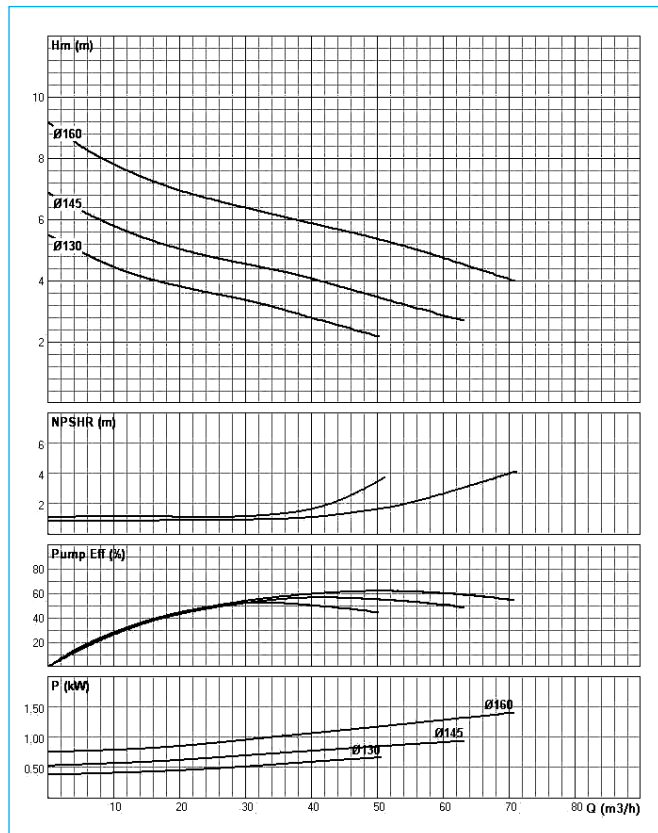


NCA 65-200VX

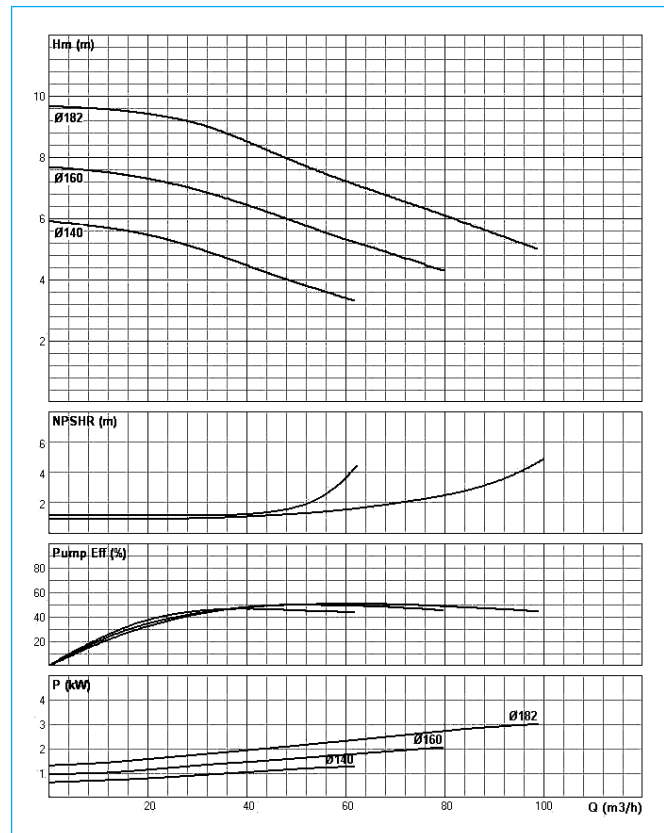


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A

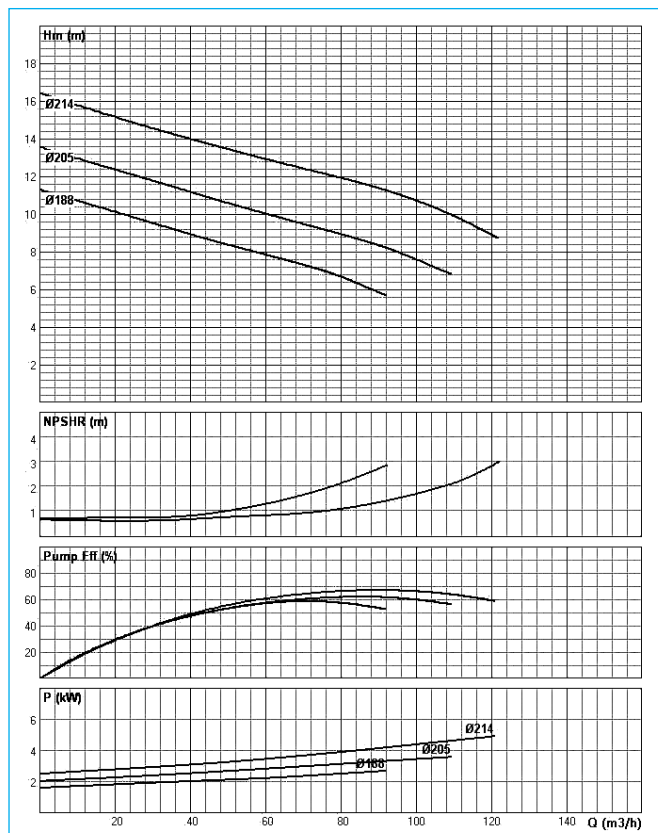
NCA 80-160-1K



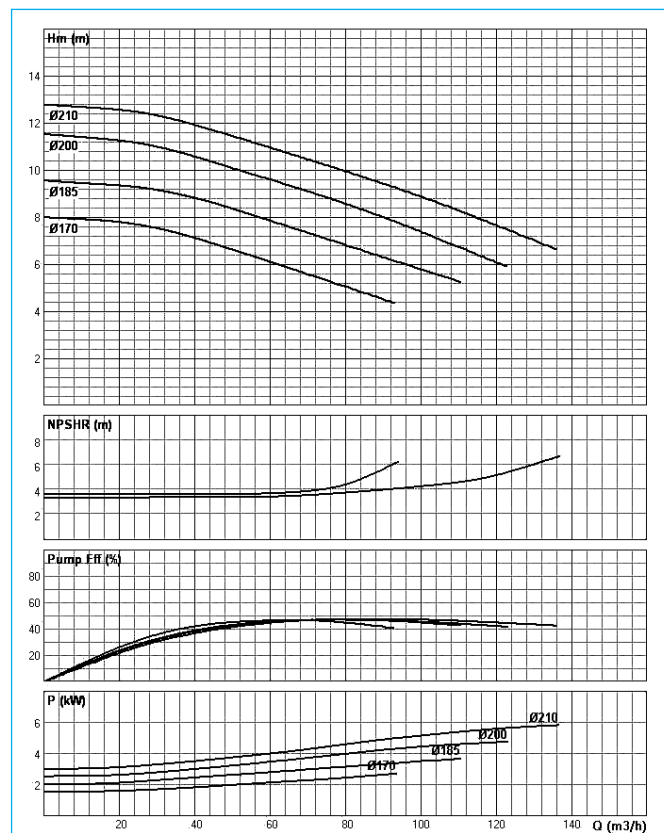
NCA 80-160-VX



NCA 80-200B-2K



NCA 80-200VX

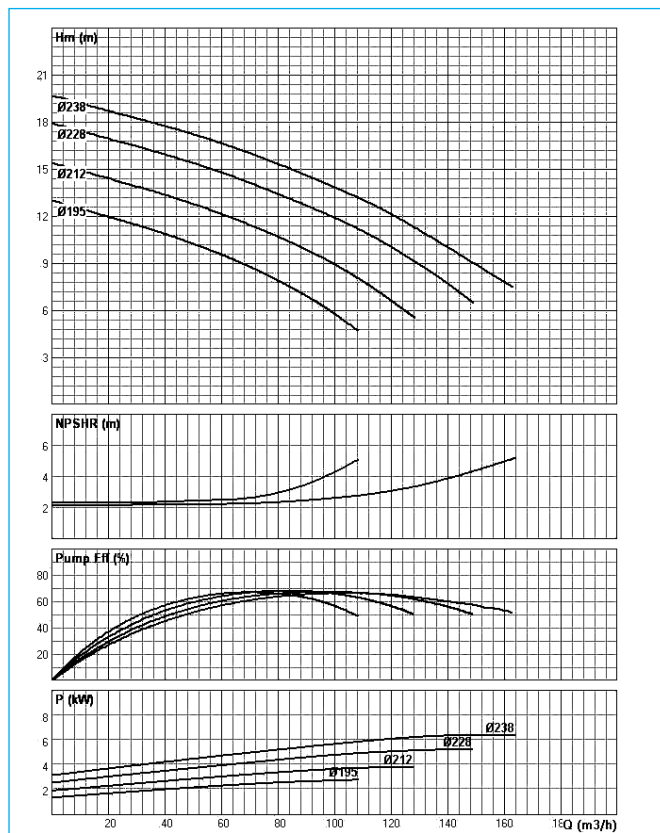


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A

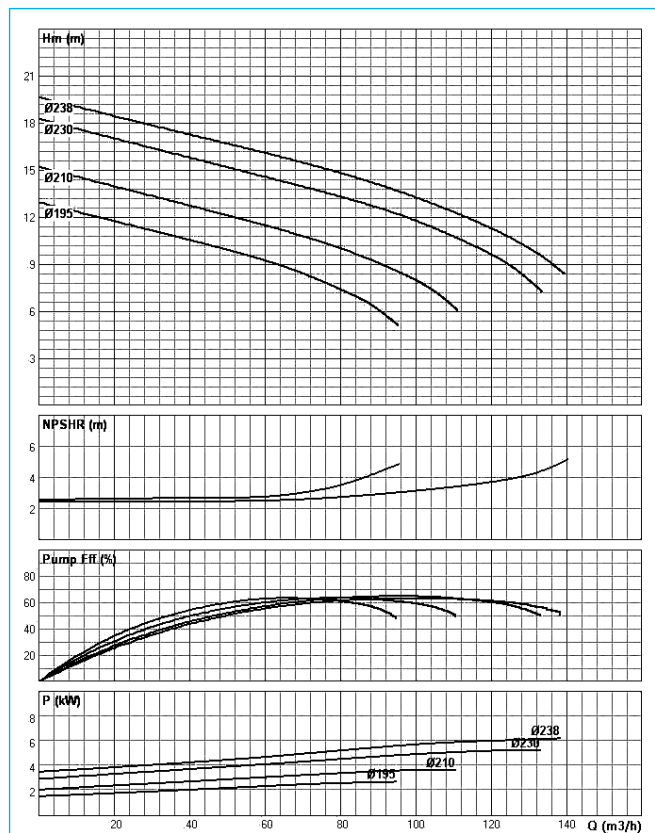
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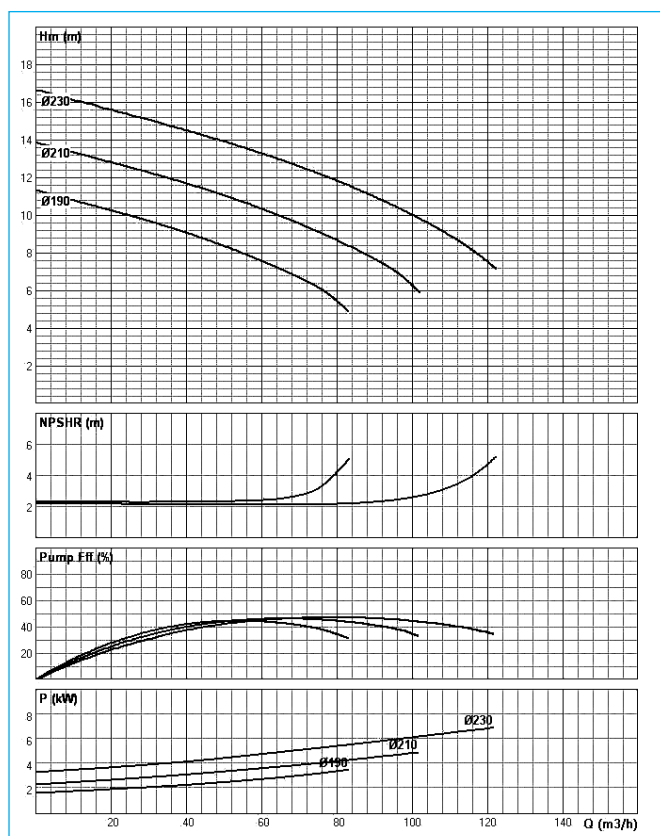
NCA 100-240AB



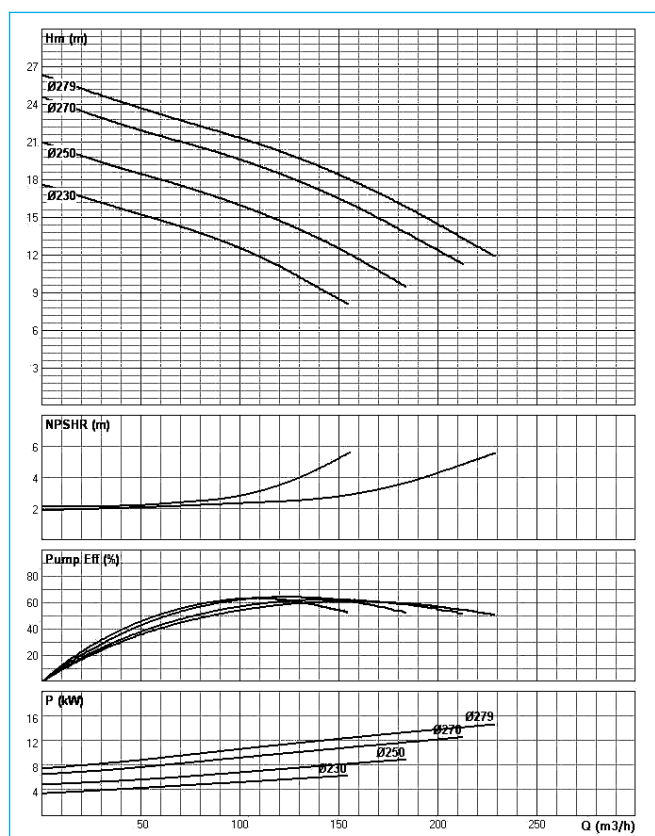
NCA 100-240B-2K



NCA 100-240VX



NCA 100-270AB

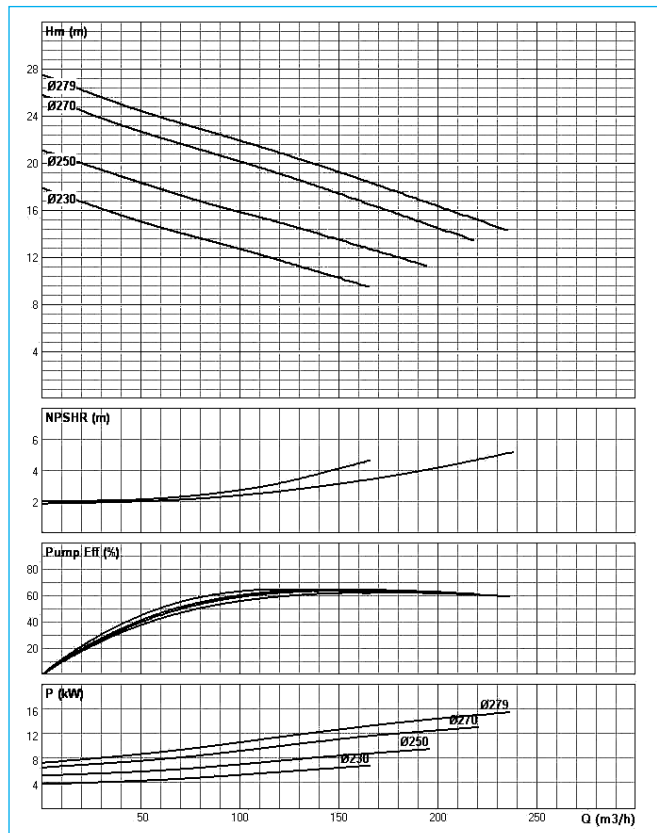


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A

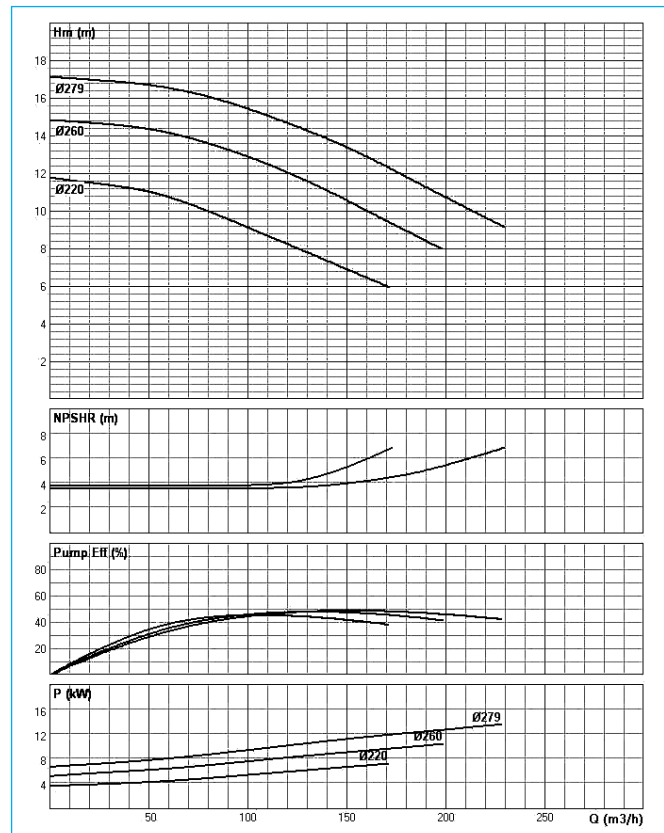
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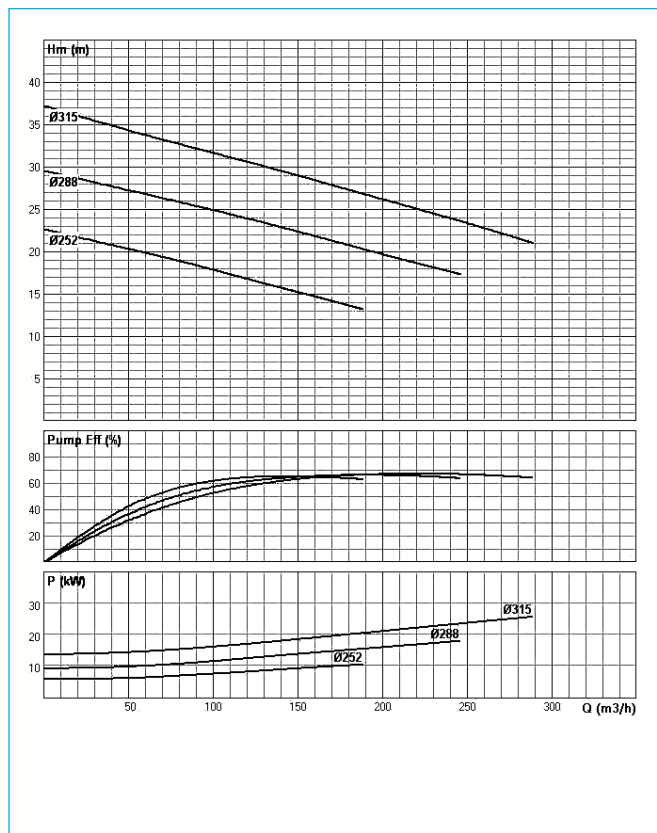
NCA 100-270B-2K



NCA 100-270VX



NCA 100-315



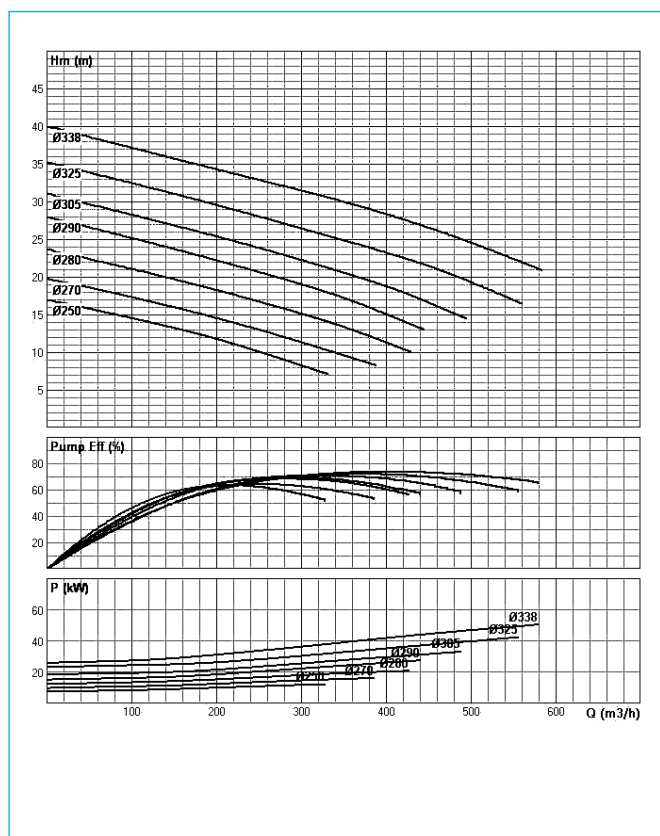
Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A



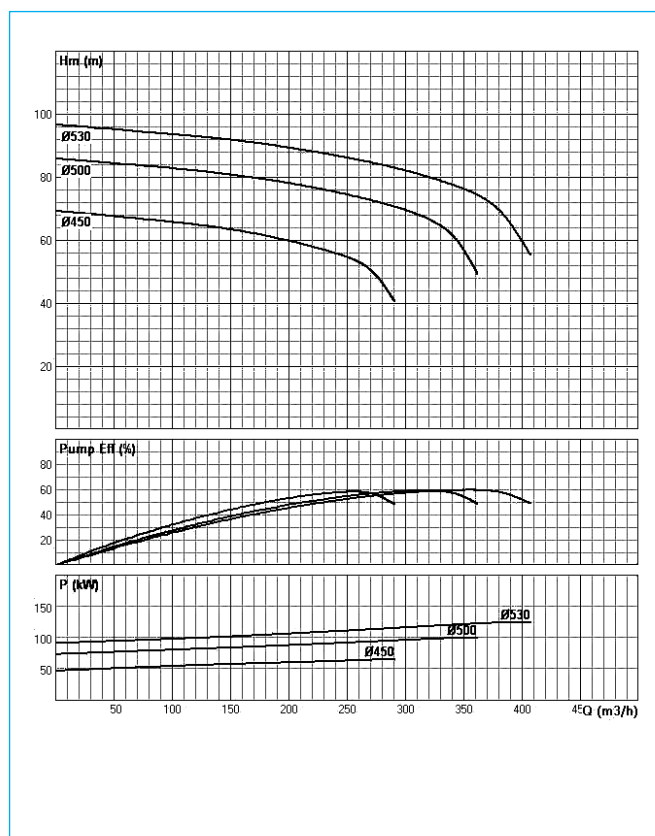
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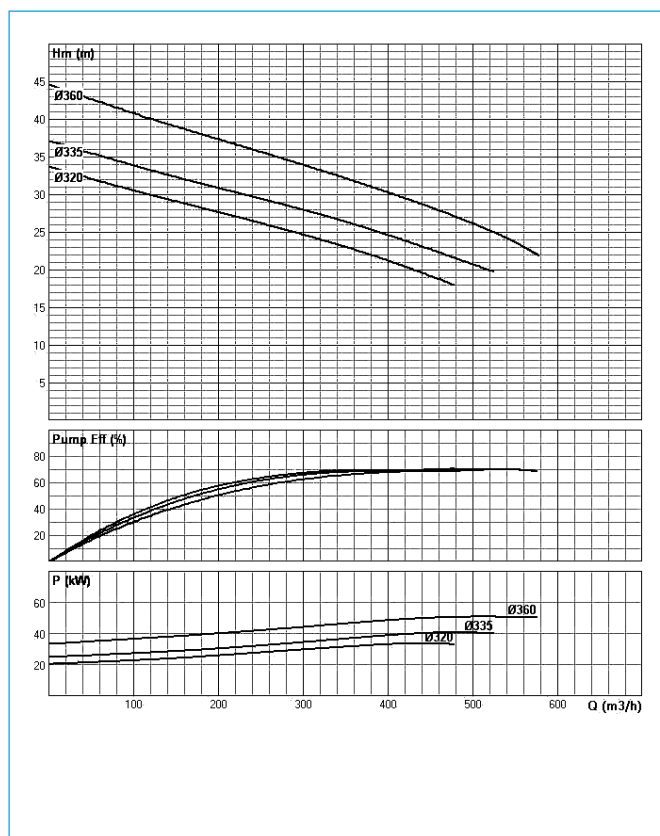
NCA 150-315



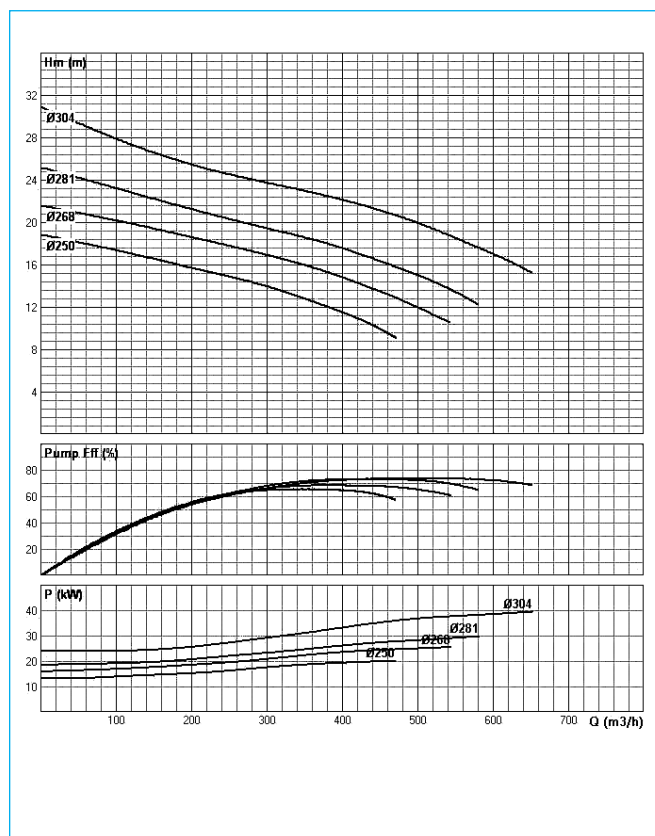
NCA 150-500



NCA 200-315



NCA 200-315G

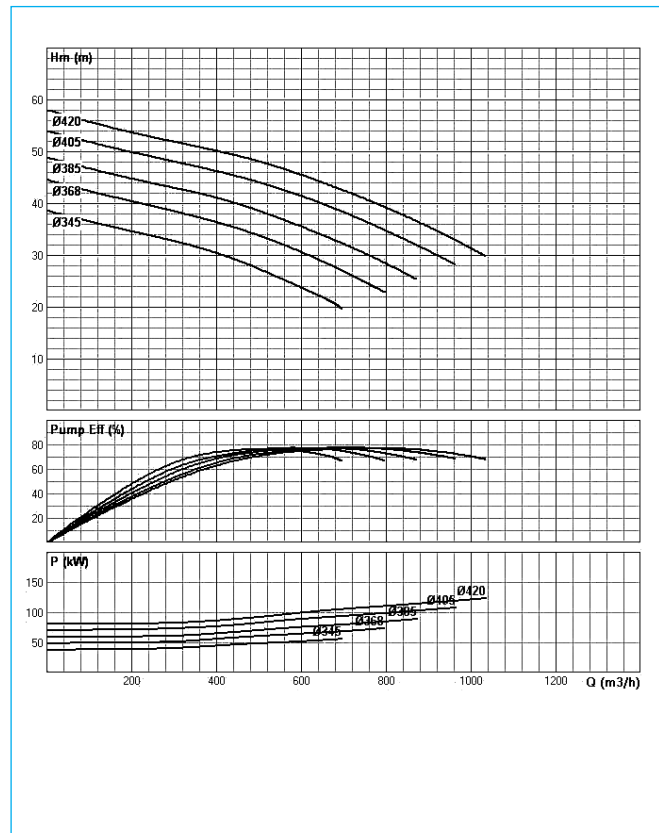


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A

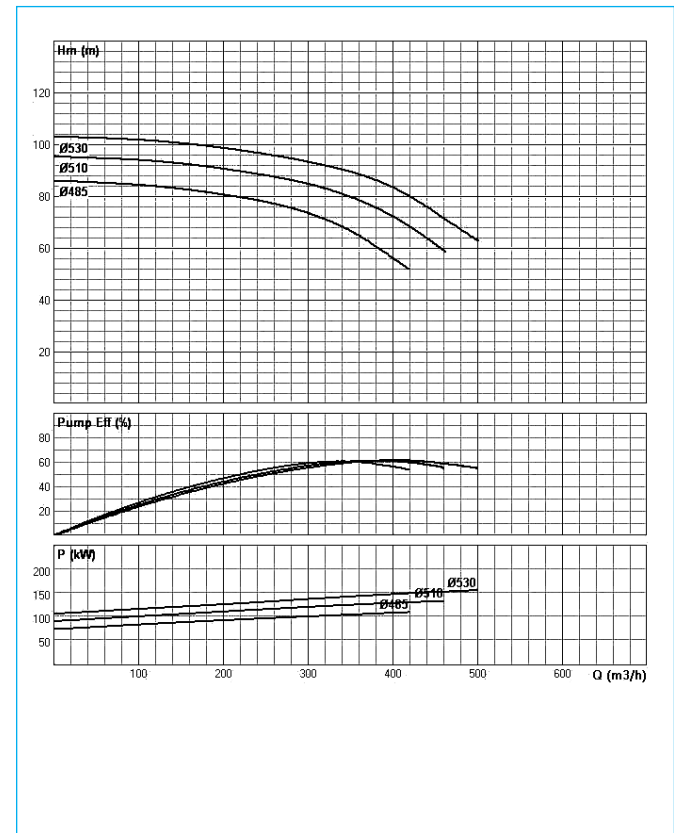
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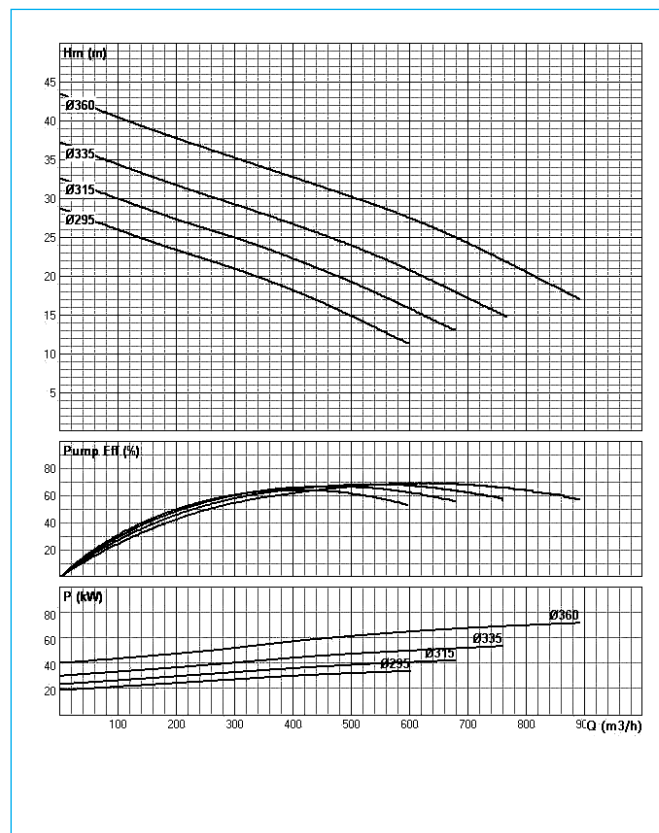
NCA 200-400



NCA 200-500



NCA 250-315AB

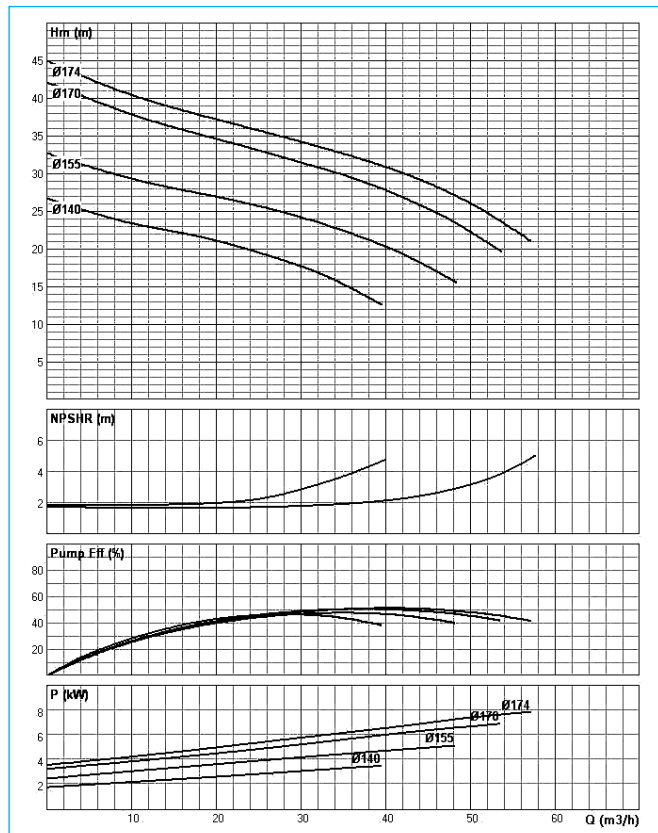


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A

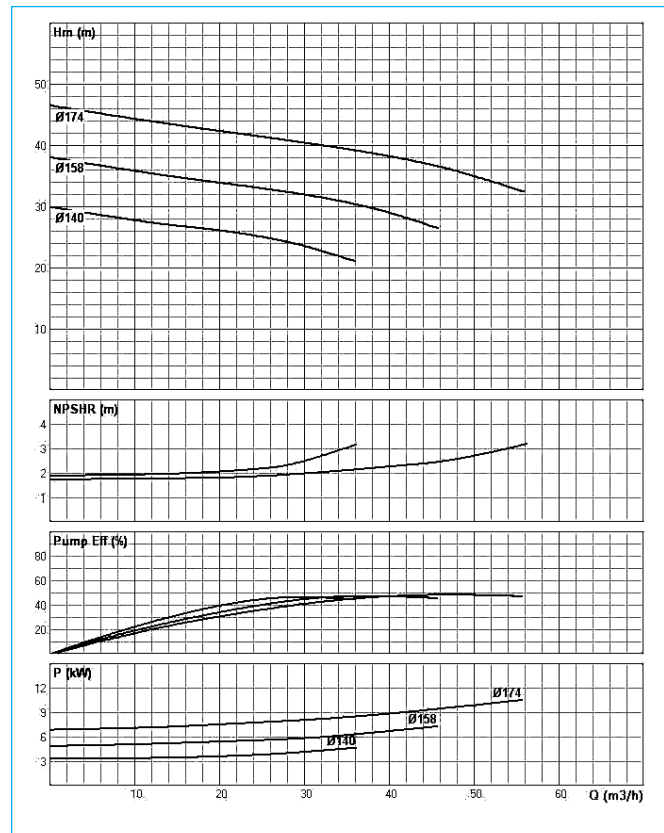


Prestazioni delle pompe a 3000 1/min
Performances of 3000 r.p.m. pumps

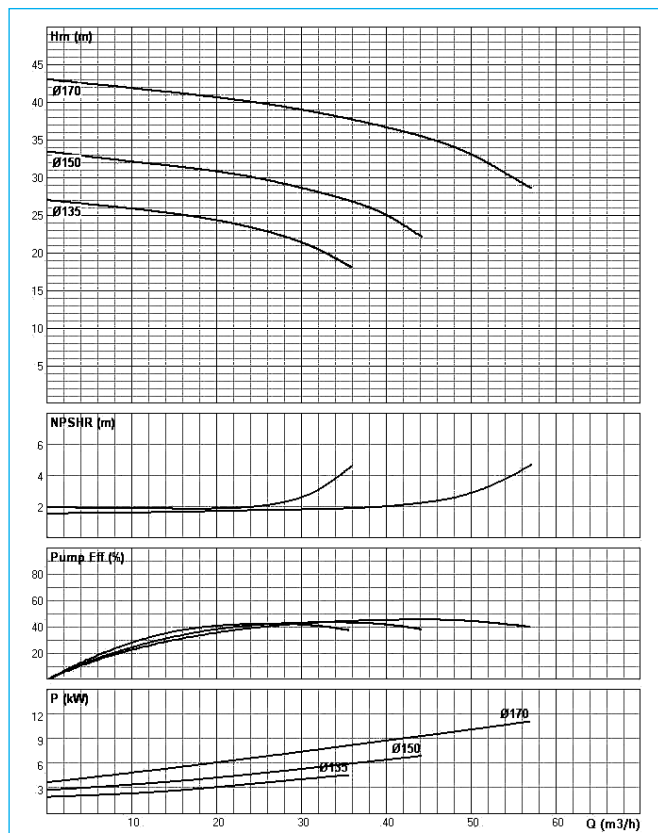
NCA 40-160-2K



NCA 40-160-3K



NCA 40-160RX

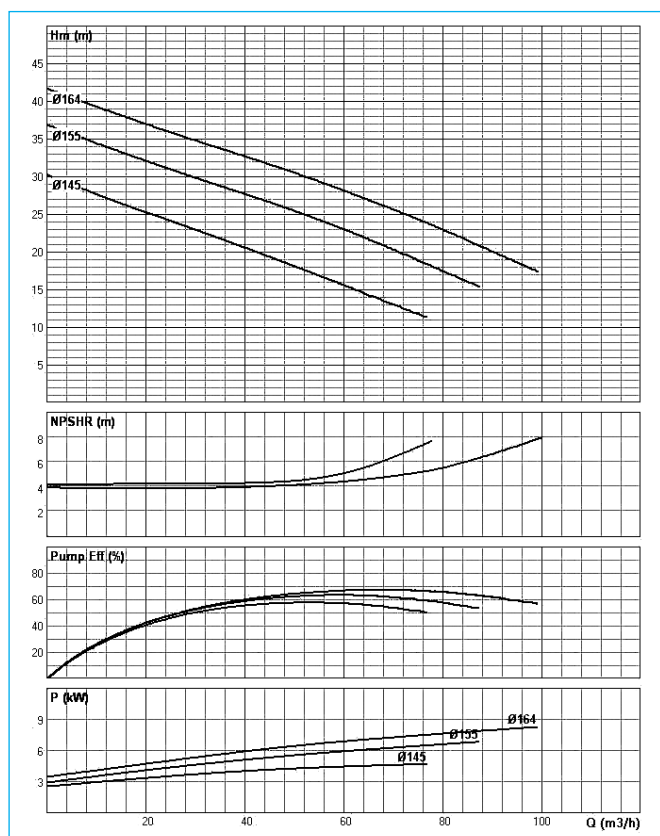


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A

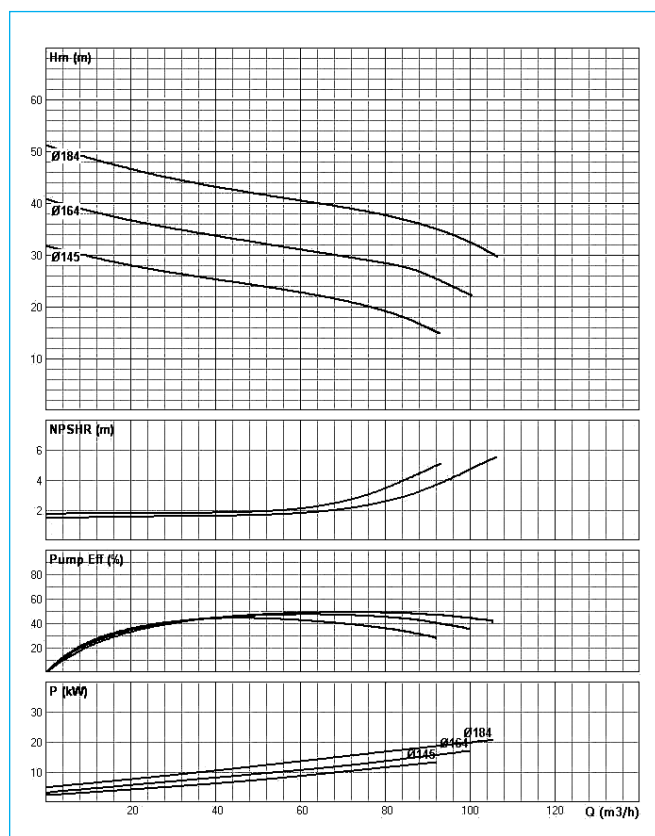
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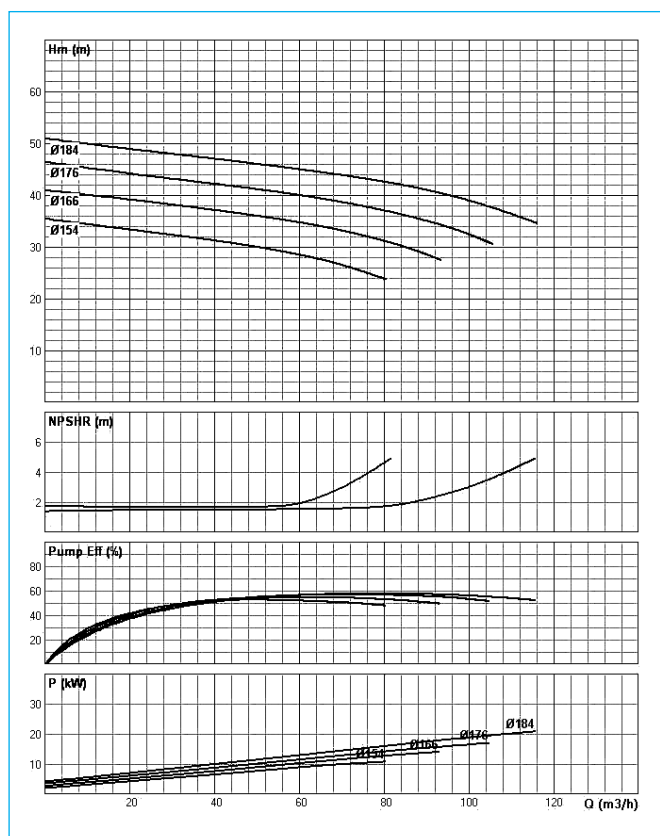
NCA 50-160-2K



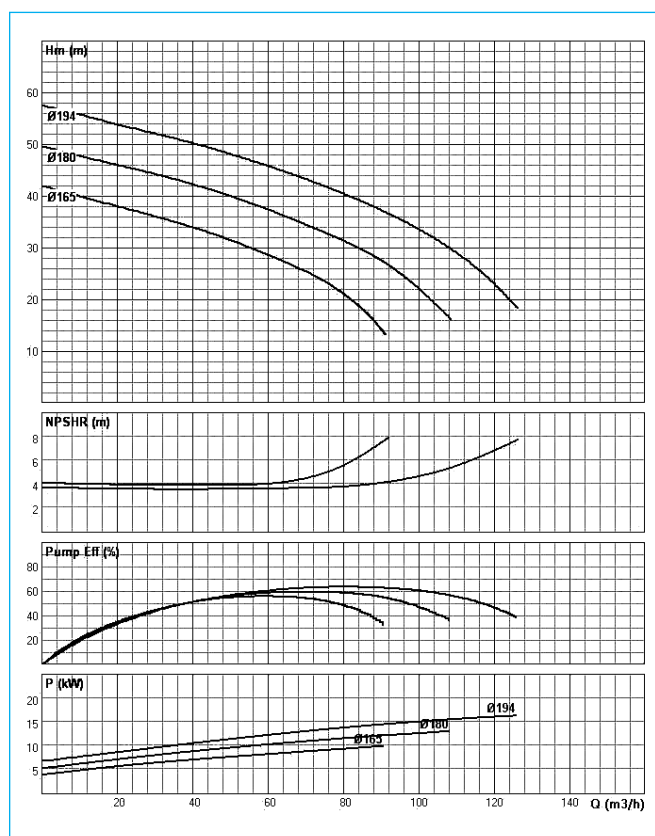
NCA 50-160RX



NCA 50-160VX

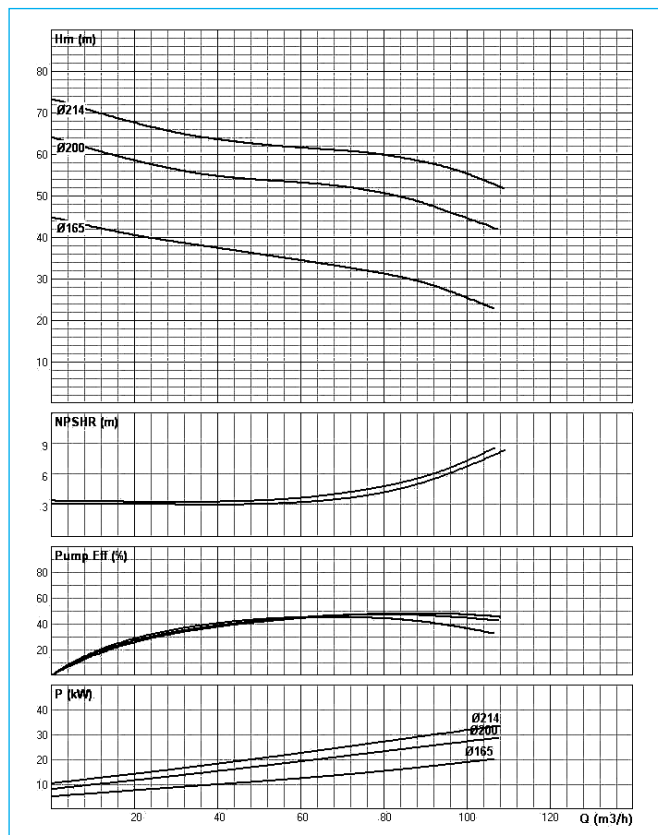


NCA 50-200-2K

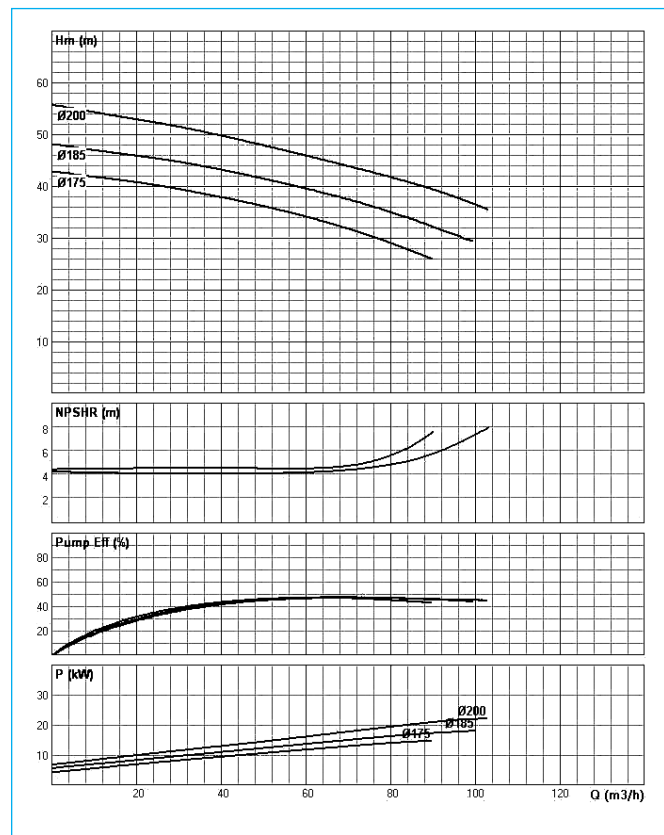


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A

NCA 50-200RX



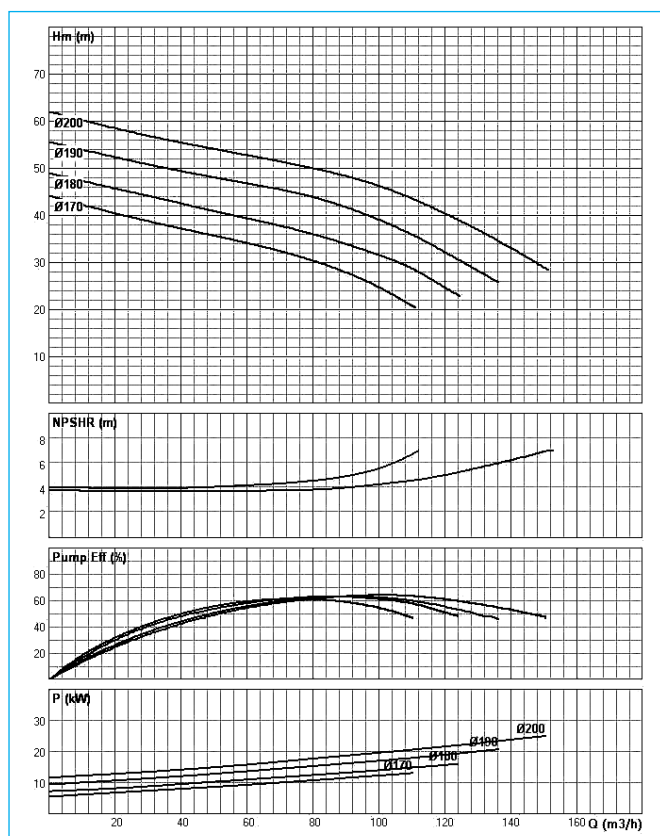
NCA 50-200VX



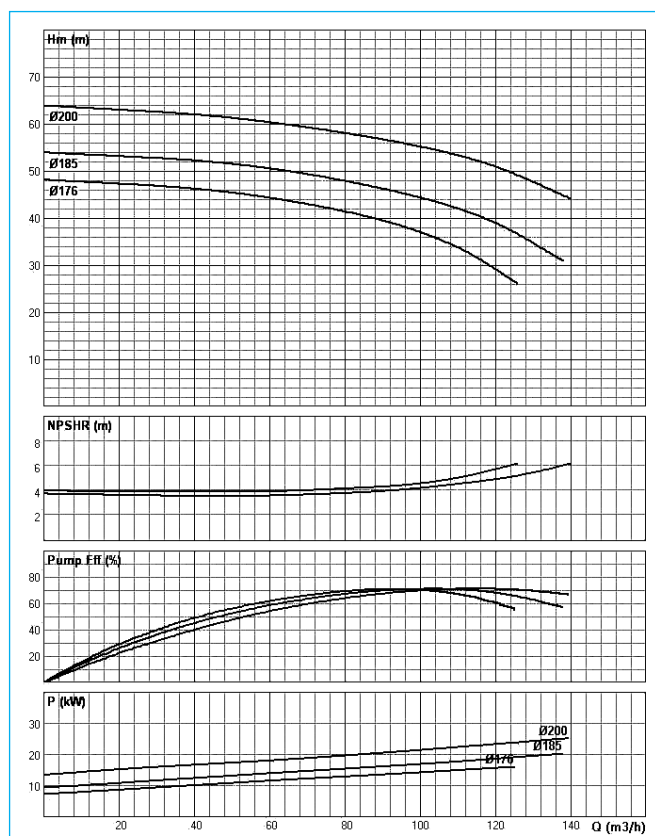
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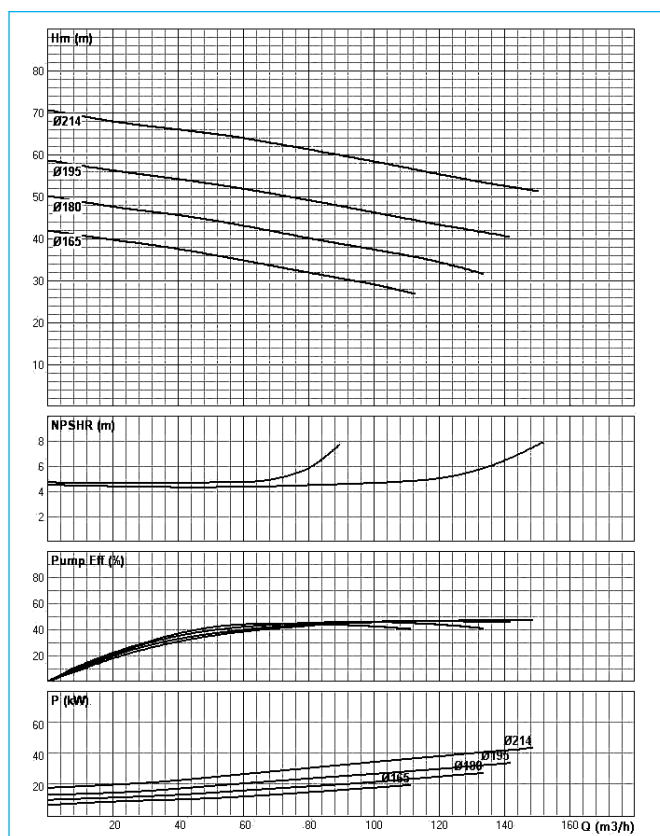
NCA 65-200-2K



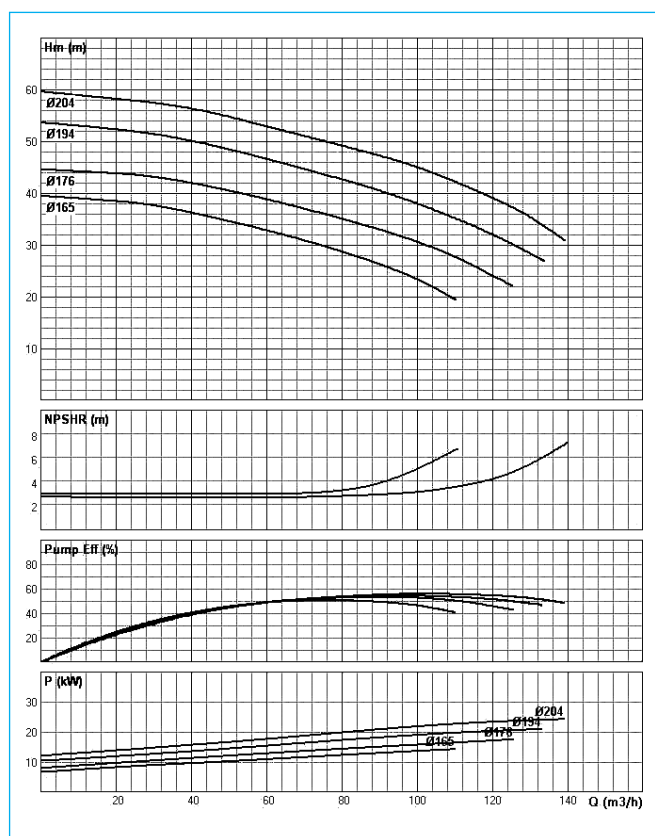
NCA 65-200-3K



NCA 65-200RX

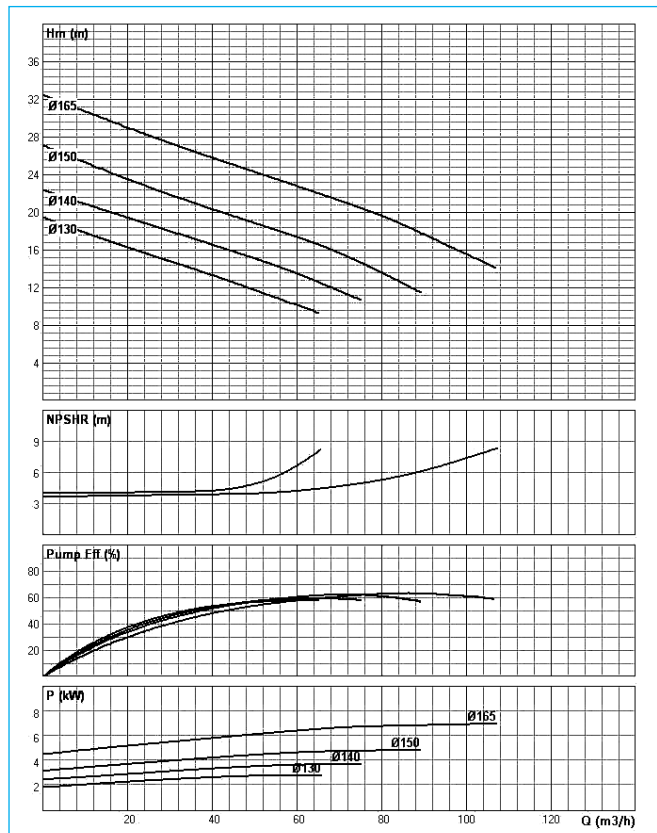


NCA 65-200VX

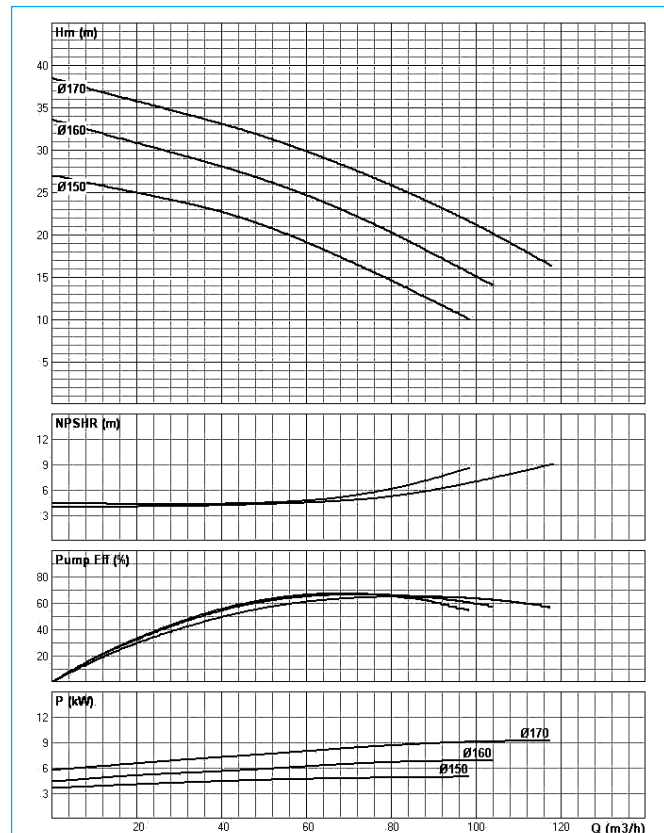


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A

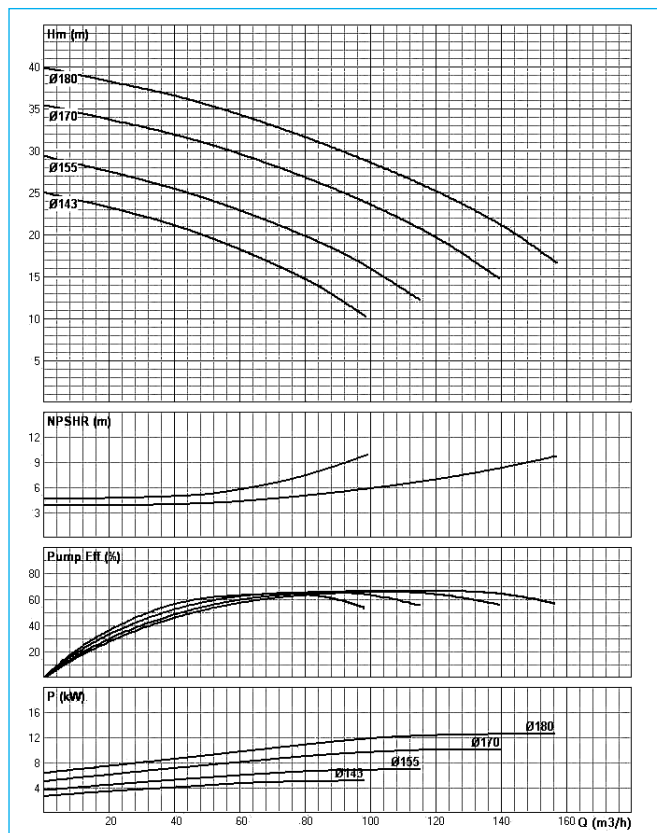
NCA 80-200D-2K



NCA100-240AB



NCA 100-240-2K



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI EN ISO 9906 - Appendice A
 • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Tolerance and curves according to UNI EN ISO 9906 - Attachment A



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Prestazioni e tolleranze secondo UNI EN ISO 9906 - Appendice A
Performances and tolerances according to UNI EN ISO 9906 - Attachment A
Prestaciones y tolerancias de acuerdo con UNI EN ISO 9906 - Parrafo A
Performances et tolérances conformes aux normes UNI EN ISO 9906 - Annexe A
Leistungen und Abweichungen gemäß UNI EN ISO 9906 - Anhang A
Dados de rendição e tolerâncias de acordo com UNI EN ISO 9906 - Parágrafo A

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