

FAMCO
هایپر صنعت



water passion

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)، روبروی پالایشگاه نفت پارس، پلاک ۱۲

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1959

WHO WE ARE

WE WANT TO CONTINUE THAT WHICH WAS STARTED MANY YEARS AGO BY VINICIO METTIFOGO, FOUNDER AND PIONEER.

Calpeda is a family owned company with an history of 61 years. Today, we are a reality that has evolved over the years, always looking to the future with a spirit that has brought us to being a respected reference point in the great world of water.

Our history has taken our tradition and strength to you, acknowledged for our professionalism, quality, reliability and service.



2020

CALPEDA TODAY

Employees: 250
Offices: Montorso V. (Vicenza) Italy
Main factory: 30,000 sq. metres (covered)
Types of pumps: more than 2,000
Power outputs: from 0.5 kW to 200 kW





The electropumps N, B-N, N4, B-N4 series comply with the European Regulation no. 547/2012.

Materials

Components	N, N4 Mechanical seal	N, N4 Stuffing box	B-N, B-N4 Mechanical seal
Pump casing	Cast iron		Bronze
Casing cover	GJL 200 EN 1561		G-Cu Sn 10 EN 1982
Impeller	Cast iron GJL 200 EN 1561		Bronze G-Cu Sn 10 EN 1982
	Brass P- Cu Zn 40 Pb 2 UNI 5705 For 32-125, 32-160, 32-200, 32L-200, 40-200		
Shaft	Chrome steel 1.4104 EN 10088 (AISI 430)	Carbon steel C 40 UNI 7845	Cr-Ni-Mo steel 1.4401 EN 10088 (AISI 316)
Shaft sleeve	-	Bronze G-Cu Sn5 Zn5 Pb5 EN 1982 with chromate surface	-
Mechanical seal	Carbon - Ceramic - NBR	-	Carbon - Ceramic - NBR
Counter-flanges	Steel Fe 430B UNI 7070		

Construction

Single-stage end-suction centrifugal pumps, with bearing bracket.

Nominal duty points and main dimensions in accordance with EN 733. Back Pull-Out construction, for simple and quick dismantling and reassembly.

N, N4: version with pump casing and lantern bracket in cast iron.
B-N, B-N4: version with pump casing and lantern bracket in bronze.
(the pumps are supplied fully painted).

Rated speed of rotation (50 Hz): **N** ≈ 2900 rpm.
N4 ≈ 1450 rpm.

Connections: PN 10 flanges EN 1092-2.

Counter-flanges (on request)

Sizes	Flanges
from 32-160 to 50-250	Screwed flanges PN 16 EN 1092-1
from 65-125 to 150-400	Flanges for welding PN 10 EN 1092-1

Shaft sealing

- Standardized mechanical seal in accordance with ISO 3069.
- Stuffing box seal (on request).

Applications

For clean liquids, without abrasives, which are non-aggressive for the pump materials (contents of solids up to 0.2%).

For water supply.

For heating, air conditioning, cooling and circulation plants.

For civil and industrial applications and for agriculture.

For fire fighting applications.

For irrigation.

Operating conditions

Liquid temperature from -10 °C to +90 °C.

Ambient temperature up to 40 °C.

Total suction lift up to 7 m.

Maximum permissible working pressure up to 10 bar (16 bar for N 32L-160,200; N,N4 40-160,200; N,N4 50-125,160; N,N4 65-125,160,200,250; N,N4 80-160,315,400; N,N4 100-200).

Maximum permissible rotation speed: see table on page 82.

Pump-Motor unit

N,N4 pump connected to a standard electric motor in B3 construction form (EN 60072-1), by means of a baseplate, driven by a flexible coupling and with coupling protection.

Three-phase 400 V , 50 Hz

Classification scheme IE3 for three-phase motors from 0,75 kW.

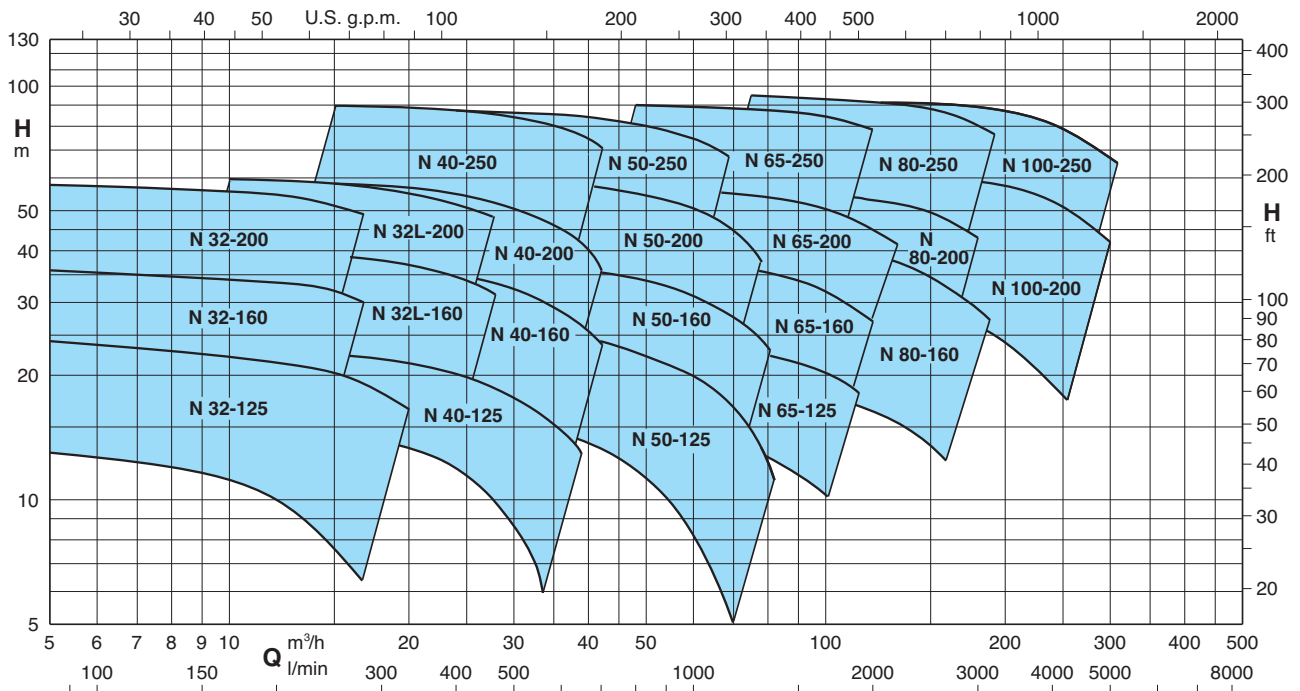
IP 55 protection.

Motor suitable for operation with frequency converter.

Special features on request

- Special mechanical seal.
- Chrome-nickel steel AISI 316 pump-shaft.
- Higher or lower liquid or ambient temperatures.
- Other motor protection.
- Motor for other voltage.
- Frequency 60 Hz (as per 60 Hz data sheet).

Coverage chart n ≈ 2900 rpm



Tolerances according to UNI EN ISO 9906:2012

Prestazioni n = 2900 1/min

PUMP	PUMP	MOTOR	P ₂ kW	Q m³/h																		
				6,6	7,5	8,4	9,6	10,8	12	13,2	15	16,8	18,9	21	24	27	29	32	37,8	39		
				Q l/min																		
				110	125	140	160	180	200	220	250	280	315	350	400	450	483	533	630	650		
B-N 32-125F/A	N 32-125F/A	71 M2	0,55	12,5 0,4	12,5 0,43	12 0,46	11,5 0,48	11 0,5	10,5 0,52	9,5 0,54	8 0,55	6 0,56										
B-N 32-125D/A	N 32-125D/A	80 M2	0,75	18 0,63	18 0,67	17,5 0,7	17 0,75	16,5 0,79	16 0,83	15,5 0,86	14 0,9	12,5 0,93	11 0,95	8,5 0,97								
B-N 32-125A/A	N 32-125A/A	80 M2	1,1	23 0,83	23 0,87	22,5 0,91	22 0,96	21,5 1,01	21 1,06	20,5 1,1	19,5 1,19	18 1,26	16 1,31	14 1,35	10 1,38							
B-N 32-125S/A	N 32-125S/A	90 S2	1,5	23,5 0,86	23,5 0,9	23 0,94	22,5 1	22 1,06	21,5 1,12	21 1,17	20,5 1,25	19 1,3	18,5 1,36	16,5 1,42	13 1,49							
B-N 32-160B/A	N 32-160B/A	90 S2	1,5	29,5 1,1	29,5 1,17	29 1,23	28,5 1,30	27,5 1,37	27 1,43	26 1,48	25 1,55	22,5* 1,63	20* 1,7	17,5* 1,75	12,5* 1,79							
B-N 32-160A/A	N 32-160A/A	90 L2	2,2	35,5 1,56	35,5 1,64	35 1,71	34,5 1,81	34 1,9	33,5 1,98	33 2,05	32 2,12	30* 2,24	28* 2,33	25* 2,4	21* 2,47	15* 2,5						
B-N 32-200D/A	N 32-200D/A	90 L2	2,2	37,5 1,92	37 2	36 2,06	35 2,17	34 2,24	33 2,3	32 2,35	30 2,4	27 2,45	22 2,5									
B-N 32-200C/A	N 32-200C/A	100 L2	3	44,5 2,17	44 2,28	43,5 2,36	43 2,5	42 2,63	41 2,74	40 2,83	38,5 2,97	36 3,1	32 3,2									
B-N 32-200A/A	N 32-200A/A	112 M2	4	57 2,9	56,5 3,1	56 3,18	55,5 3,35	54,5 3,51	53,5 3,67	52,5 3,8	51 4	49 4,2	46 4,4									
B-N 32L-160C	N 32L-160C	90 L2	2,2				25,1 1,25	24,9 1,35	24,7 1,4	24,4 1,45	23,8 1,55	23 1,65	21,8 1,75	17,3 1,85	13,4 2,05							
B-N 32L-160B	N 32L-160B	100 L2	3				30,4 1,85	30,3 1,95	30,2 2	30 2,1	29,6 2,2	29 2,35	28,1 2,45	26,8 2,7	24,2 2,9	20,8 2,85	17,9 2,9					
B-N 32L-160A	N 32L-160A	112 M2	4				39,9 2,95	39,9 2,9	39,8 2,9	39,6 2,9	39,3 2,9	38,8 3	37,9 3,2	36,8 3,35	34,7 3,6	31,9 3,8	29,7 3,9	25,6 4,05				
B-N 32L-200C	N 32L-200C	112 M2	4				42,1 2,5	41,8 2,65	41,5 2,8	41 2,9	40,2 3,1	38,9 3,25	37 3,45	34,5 3,8	29,7 3,8	23,8 4						
B-N 32L-200B	N 32L-200B	132 S2	5,5				51,7 3,15	51,6 3,3	51,4 3,45	51,2 3,6	50,7 3,85	50 4,1	48,8 4,35	47 4,55	43,2 4,9	37,8 5,15	33,5 5,35					
B-N 32L-200A	N 32L-200A	132 S2	7,5				59,4 3,8	59,4 4	59,4 4,2	59,4 4,35	59,2 4,6	58,8 4,9	58 5,25	56,5 5,6	53,4 6,3	48,6 6,5	44,6 6,8	37,7 6,8				

PUMP	PUMP	MOTOR	P ₂ kW	Q m³/h																		
				15	16,8	18,9	21	24	27	30	33	37,8	39	42	45	48	54	60	66	69		
				Q l/min																		
				250	280	315	350	400	450	500	550	630	650	700	750	800	900	1000	1100	1150		
B-N 40-125F/A	N 40-125F/A	80 M2	1,1	14 0,96	13,5 1,00	13 1,04	12 1,07	11 1,10	9,5 1,13	8 1,13	6 1,13											
B-N 40-125C/A	N 40-125C/A	90 S2	1,5	17,5 1,21	17 1,26	16,5 1,32	16 1,38	15 1,44	13,5 1,49	12 1,53	10,5 1,56	7,5 1,57	6,5 1,57									
B-N 40-125A/A	N 40-125A/A	90 L2	2,2	22 1,50	22 1,57	21,5 1,65	21 1,72	20 1,82	19 1,91	18 1,98	16,5 2,04	14 2,10	13 2,11	11,5 2,13								
B-N 40-160C/A	N 40-160C/A	90 L2	2,2	23 1,55	22,5 1,63	22 1,72	21,5 1,80	20 1,90	18,5 1,99	16,5 2,06	14,5 2,12	11 2,17	10 2,17									
B-N 40-160B/A	N 40-160B/A	100 L2	3	29 2,08	28,8 2,18	28 2,30	27,5 2,41	26,5 2,55	25 2,67	23,5 2,78	21,5 2,87	18 2,97	17 2,99	14 3,02								
B-N 40-160A/A	N 40-160A/A	112 M2	4	37 2,70	36,5 2,84	36,5 3,01	36 3,18	35 3,35	33,5 3,53	32 3,72	30,5 3,84	27 4,01	26 4,05	23,5 4,12	20 4,20	17 4,22						
B-N 40-200D/A	N 40-200D/A	112 M2	4	39 3,20	38 3,35	37 3,51	35,5 3,66	33,5 3,86	30,5 4,03	27 4,18	22,5 4,30	14 4,43										
B-N 40-200C/A	N 40-200C/A	112 M2	4	41,5 3,44	40,5 3,59	39,5 3,78	38 3,95	36 4,15	33,5 4,32													
B-N 40-200B/A	N 40-200B/A	132 S2	5,5	50 3,96	49,5 4,18	48,5 4,41	47,5 4,64	45,5 4,92	43,5 5,17	41,5 5,39	37,5 5,60	30,5 5,87										
B-N 40-200AR/A	N 40-200AR/A	132 S2	5,5	55 4,50	54,5 4,70	54 5,07	53 5,30	51 5,65	49 5,95													
B-N 40-200A/A	N 40-200A/A	132 S2	7,5	57,5 4,78	57 5,04	56,5 5,34	55,5 5,63	54,5 6,03	52,5 6,40	50,5 6,70	48 7,01	42,5 7,34	40,5 7,43	35 7,62								
B-N 40-250C/A	N 40-250C/A	160 M2	11	61 5,86	61 6,16	60,5 6,49	59,5 6,82	58,5 7,28	56,5 7,72	53,5 8,07	49,5 8,48	41,5 9,02	40 9,15	33,5 9,35								
B-N 40-250B/A	N 40-250B/A	160 M2	11	69,5 6,87	69,5 7,19	69 7,56	68,5 7,91	67 8,47	65,5 8,91	63,5 9,35	60,5 9,75	53,5 10,40	51 10,54	45 10,93								
B-N 40-250A/A	N 40-250A/A	160 M2	15	90 9,31	90 9,73	89,5 10,21	89 10,68	88,5 11,34	87 11,98	85 12,60	83 13,19	77,5 14,00	76 14,21	70,5 14,65								

N Standard construction. B-N Bronze construction. P₂ Rated motor power output. P₃ Pump power input. H Total head in m. * Maximum suction lift 1-2 m.

Performance n ≈ 2900 rpm

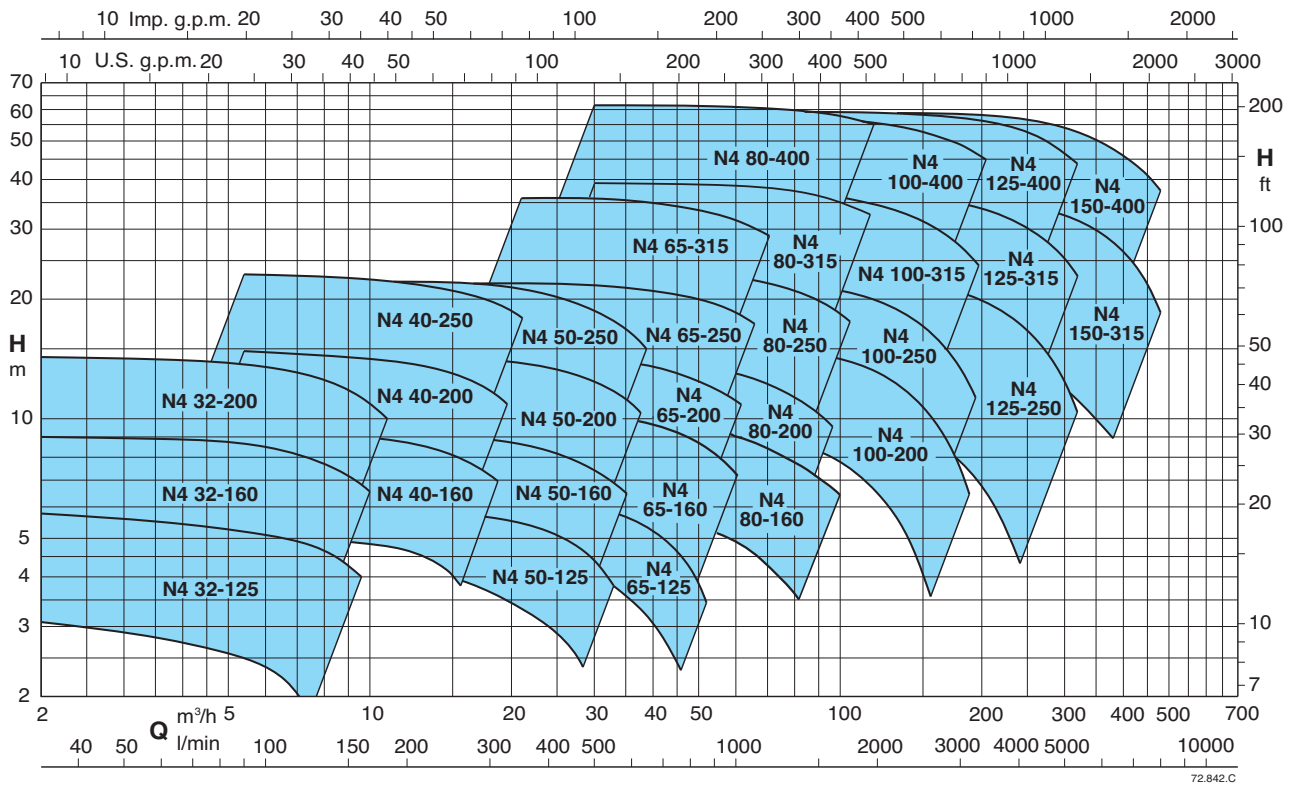
PUMP B-N	PUMP N	MOTOR	P ₂ kW	Q m³/h																
				24	27	30	33	37,8	42	48	54	60	66	69	72	75	78	81	84	96
				Q l/min																
				400	450	500	550	630	700	800	900	1000	1100	1150	1200	1250	1300	1350	1400	1600
B-N 50-125F/A	N 50-125F/A	90 L2	2,2			15,5 1,87	15 1,93	14 2,02	13,5 2,09	12 2,14	10 2,18	8 2,10	6 2,10							
B-N 50-125D/A	N 50-125D/A	100 L2	3			20 2,5	19,5 2,58	18,5 2,7	18 2,81	16,5 2,91	14,5 2,98	13 2,92	10,5 2,9	9 2,87						
B-N 50-125A/A	N 50-125A/A	112 M2	4			24 3,11	24 3,22	23 3,39	22,5 3,54	21 3,69	19,5 3,78	17,5 3,85	15 3,87	14 3,86	12,5 3,84	11,5 3,81	10 3,79			
B-N 50-125S/A	N 50-125S/A	112 M2 132 S2	4 5,5			26,5 3,38	26 3,52	25,5 3,71	24,5 3,87	23,5 4,04	22 4,18	20 4,25	18 4,29	16,5 4,28	15,5 4,26	14 4,24	13 4,22			
B-N 50-160B/A	N 50-160B/A	132 S2	5,5			31 4,30	30,5 4,48	29,5 4,71	28 4,90	26 5,11	24 5,28	21,5 5,35	19 5,40	17,5 5,40	15,5 5,38	13,5 5,32	11,5 5,30	9,5 5,22		
B-N 50-160A/A	N 50-160A/A	132 S2	7,5			38,5 5,44	38 5,67	37,5 6,02	36,5 6,31	34,5 6,67	32,5 6,95	30 7,18	27 7,30	25,5 7,34	24 7,38	22,5 7,41	20,5 7,42	19 7,46		
B-N 50-200B/A	N 50-200B/A	160 M2	11		48 6,92	47,5 6,13	47,5 6,44	47 6,73	45,5 7,18	44,5 7,55	42,5 8,02	40 8,43	37 9,01	33 9,08	30,5 9,15	28 9,19	25,5 9,19	23 9,23		
B-N 50-200A/A	N 50-200A/A	160 M2	11			55 7,56	55 7,29	54,5 7,65	54,5 7,99	53,5 8,56	52 8,99	50 9,57	48 10,05	45 10,45	41,5 10,75	39,5 10,89	37 10,97	35 11,11	32,5 11,15	
B-N 50-200S/A	N 50-200S/A	160 M2	15			60 8,15	60 7,98	59,5 8,39	59,5 8,79	58,5 9,38	57,5 9,82	55,5 10,48	53,5 11,05	50,5 11,54	47 11,85	45 12,02	43 12,20	40,5 12,30	37 12,40	
B-N 50-250C/A	N 50-250C/A	160 M2	11			55 7,28	54,5 7,68	54 8,06	53 8,42	51,5 8,98	49,5 9,42	46,0 9,99	41,5 10,42	35,5 10,75	28,5 10,95	24,5 11,08				
B-N 50-250B/A	N 50-250B/A	160 M2	15			69 9,62	68,5 10,08	68 10,58	67,5 11,05	66 11,68	64 12,32	61 13,05	57 13,77	52,5 14,20	46,5 14,77	43 14,98				
B-N 50-250A/A	N 50-250A/A	160 L2	18,5			80,5 11,75	80,5 12,33	80 12,92	79,5 13,56	78,5 14,47	77 15,20	74,5 16,10	71,5 16,94	67 17,65	61,5 18,25	58,5 18,55				
B-N 50-250S/A	N 50-250S/A	180 M2	22			88,5 12,76	88,5 13,46	88 14,15	87 14,85	86 15,93	84 16,84	81,5 17,92	78,5 19,02	75 19,91	71 20,62	68,5 20,96				

PUMP B-N	PUMP N	MOTOR	P ₂ kW	Q m³/h																		
				24	27	30	33	37,8	42	48	54	60	66	75	84	96	108	120	132	141		
				Q l/min																		
				400	450	500	550	630	700	800	900	1000	1100	1250	1400	1600	1800	2000	2200	2350		
B-N 65-125E/B	N 65-125E/B	112 M2	4							16,5 2,86	16,4 2,99	16,2 3,17	15,9 3,34	15,5 3,5	15,1 3,64	14,3 3,81	13,2 3,94	11,4 4,03	9,2 4			
B-N 65-125C/B	N 65-125C/B	132 S2	5,5							21,1 3,68	21 3,86	20,8 4,11	20,6 4,35	20,3 4,57	19,9 4,77	19,1 5,02	18,2 5,23	16,5 5,41	14,4 5,5	11,8 5,49		
B-N 65-125A/B	N 65-125A/B	132 S2	7,5							25,9 4,71	25,8 4,92	25,6 5,21	25,4 5,5	25,1 5,77	24,8 6,03	24,1 6,38	23,3 6,69	21,9 7,02	20 7,25	17,6 7,36		
B-N 65-160D/B	N 65-160D/B	132 S2	7,5									24,3 5,11	24,1 5,44	23,9 5,75	23,6 6,05	23,1 6,45	22,3 6,8	20,8 7,15	18,8 7,4	16,3 7,52		
B-N 65-160C/B	N 65-160C/B	160 M2	11									28,1 5,89	28 6,26	27,8 6,61	27,6 6,96	27,1 7,44	26,3 7,87	24,9 8,37	23,1 8,74	20,7 8,98	17,7 9,06	
B-N 65-160B/B	N 65-160B/B	160 M2	11									32,6 7,04	32,5 7,44	32,3 7,84	32 8,22	31,5 8,76	30,8 9,25	29,5 9,84	27,9 10,33	25,7 10,7	23,0 10,96	
B-N 65-160AR	N 65-160AR	160 M2	15									36,4 7,98	36,3 8,45	36,2 8,91	35,9 9,36	35,5 9,99	34,8 10,57	33,7 11,27	32,1 11,85	30,0 12,33	27,5 12,71	
B-N 65-160A/B	N 65-160A/B	160 M2	15									40,5 8,91	40,4 9,44	40,2 9,96	40 10,47	39,5 11,19	38,8 11,85	37,6 12,64	36,1 13,33	34,2 13,92	31,7 14,42	
B-N 65-200C/B	N 65-200C/B	160 M2	15									44 9,2	43,8 9,8	43,5 10,4	43,1 10,9	42,3 11,7	41,2 12,3	39,4 13,1	37,1 13,8	34,4 14,3	31,4 14,8	28,8 15,1
B-N 65-200B/B	N 65-200B/B	160 L2	18,5									50,5 10,9	50,4 11,5	50,2 12,2	49,9 12,8	49,2 13,7	48,3 14,6	46,8 15,6	44,8 16,4	42,5 17,2	39,8 17,9	37,5 18,3
B-N 65-200A/B	N 65-200A/B	180 M2	22									57 13,3	57 14,1	57 14,9	56,5 15,6	56 16,7	55,5 17,7	54 19	52,5 20,1	50 21,1	47,5 22	45,5 22,5
B-N 65-250C/B	N 65-250C/B	180 M2	22									61 13,5	61 14,5	60,5 15	60 16	58,5 17	57 18	54,5 19	51,5 20	47,5 21	43 21,5	
B-N 65-250B/B	N 65-250B/B	200 L2	30									73,5 18,5	73,5 19,5	73,5 20,5	73,5 21,5	73 24,5	71,5 26	69,5 28	66,5 29,5	63 30,5	59 30,5	
B-N 65-250A/B	N 65-250A/B	200 L2	37									86,5 22	86,5 23,5	87 24,5	86,5 26	86 27,5	86 29,5	85,5 31,5	83,5 34	81 35,5	78 37	

PUMP B-N	PUMP N	MOTOR	P ₂ kW	Q m³/h																	
				60	66	75	84	96	108	120	132	150	168	180	192	210	240	270	300		
				Q l/min																	
				1000	1100	1250	1400	1600	1800	2000	2200	2500	2800	3000	3200	3500	4000	4500	5000		
B-N 80-160E/B	N 80-160E/B	132 S2	7,5																		
B-N 80-160D/B	N 80-160D/B	160 M2	11																		
B-N 80-160C/B	N 80-160C/B	160 M2	11																		
B-N 80-160B/B	N 80-160B/B	160 M2	15																		
B-N 80-160A/B	N 80-160A/B	160 L2	18,5																		
B-N 80-200B/A	N 80-200B/A	180 M2	22																		
B-N 80-200A/A	N 80-200A/A	200 L2	30																		
B-N 80-250E/A	N 80-250E/A	180 M2	22																		
B-N 80-250D/A	N 80-250D/A	200 L2	30																		
B-N 80-250C/A	N 80-250C/A	200 L2	37																		
B-N 80-250B/A	N 80-250B/A	225 M2	45																		
B-N 80-250A/A	N 80-250A/A	250 M2	55																		
B-N 100-200E/A	N 100-200E/A	160 L2	18,5																		
B-N 100-200D/A	N 100-200D/A	180 M2	22																		
B-N 100-200C/A	N 100-200C/A	200 L2	30																		
B-N 100-200B/A	N 100-200B/A	200 L2	37																		
B-N 100-200A/A	N 100-200A/A	225 M2	45																		
B-N 100-250B/A	N 100-250B/A	250 M2	55																		
B-N 100-250A/A	N 100-250A/A	280 S2	75																		

N Standard construction. P₂ Rated motor power output. H Total head in m. * Maximum suction lift 1-2 m. ° Minimum positive suction head 1 m.
 B-N Bronze construction. P₃ Pump power input.

Coverage chart n ≈ 1450 rpm



Tolerances according to UNI EN ISO 9906:2012

Performance n ≈ 1450 rpm

PUMP	PUMP	MOTOR	P ₂ kW	Q															
				Q m ³ /h	2,4	3	3,6	4,2	4,8	5,4	6	6,6	7,5	8,4	9,6	10,8	12	13,2	
B-N4 32-125F/A	N4 32-125F/A	71 M4	0,25	3,6	3,6	3,5	3,5	3,4	3,2	3	2,8	2,4	1,9	1,1					
B-N4 32-125D/A	N4 32-125D/A	71 M4	0,25	4,7	4,7	4,7	4,7	4,6	4,6	4,5	4,3	3,8	3,3	2,6					
B-N4 32-125A/A	N4 32-125A/A	71 M4	0,25	5,7	5,8	5,8	5,7	5,7	5,7	5,6	5,5	5,4	5,2	4,8	4,3				
B-N4 32-160B/A	N4 32-160B/A	71 M4	0,37	7,6	7,5	7,4	7,3	7,2	7,1	6,9	6,7	6,3	5,9	5,2	4,2				
B-N4 32-160A/A	N4 32-160A/A	71 M4	0,37	9	8,95	8,9	8,8	8,7	8,6	8,5	8,3	7,9	7,5	6,8	6	5,1			
B-N4 32-200B/A	N4 32-200B/A	80 M4	0,55	12,5	12,4	12,3	12,2	12	11,8	11,6	11,2	10,6	10	8,9	7,6	6,2	4,7		
B-N4 32-200A/A	N4 32-200A/A	80 M4	0,75	14,3	14,2	14,1	14	13,9	13,7	13,5	13,3	12,9	12,3	11,3	10,2	8,9	7,5		

PUMP	PUMP	MOTOR	P ₂ kW	Q															
				Q m ³ /h	5,4	6	6,6	7,5	8,4	9,6	10,8	12	13,2	15	16,8	18,9	21	24	27
B-N4 40-160C/A	N4 40-160C/A	71 M4	0,37	6,1	6,1	6	5,9	5,9	5,8	5,6	5,4	5,2	5	4,5	3,9	3,1	2,3		
B-N4 40-160B/A	N4 40-160B/A	80 M4	0,55	7,6	7,6	7,6	7,6	7,6	7,3	7,1	6,9	6,6	6,3	5,7	5	4	2,7		
B-N4 40-160A/A	N4 40-160A/A	80 M4	0,75	9,6	9,6	9,6	9,6	9,4	9,3	9,1	9	8,8	8,4	7,9	7,2	6,4	5,1	3,5	
B-N4 40-200B/A	N4 40-200B/A	90 S4	1,1	13	12,9	12,8	12,7	12,6	12,4	12,2	12	11,5	10,8	10	8,6	7			
B-N4 40-200A/A	N4 40-200A/A	90 S4	1,1	14,8	14,7	14,6	14,5	14,4	14,2	14	13,8	13,6	13	12,2	11,3	10			
B-N4 40-250C/A	N4 40-250C/A	90 L4	1,5	17,4	17,3	17,2	17,2	17	16,8	16,6	16,3	16	15,1	13,8	12,1	10,4	7,2	2,8	
B-N4 40-250B/A	N4 40-250B/A	100 LA4	2,2	21,4	21,5	21,4	21,3	21,2	21	20,9	20,8	20,5	20	19,5	18,3	16,4	13,3	10	5
B-N4 40-250A/A	N4 40-250A/A	100 LB4	3	22,9	22,8	22,9	22,9	22,8	22,5	22,5	22,2	22	21,8	21,4	20,4	18,9	16	12,6	8

N4 Standard construction.
B-N4 Bronze construction.

P₂ Rated motor power output.
P₃ Pump power input.

H Total head in m.

* Maximum suction lift 1-2 m.

Performance n ≈ 1450 rpm

PUMP B-N4	PUMP N4	MOTOR	P2 kW	Q m³/h	10,8	12	13,2	15	16,8	18,9	21	24	27	30	33	37,8	42	48						
				Q l/min	180	200	220	250	280	315	350	400	450	500	550	630	700	800						
B-N4 50-125F/A	N4 50-125F/A	71 M4	0,37	H m	4,5	4,5	4,4	4,3	4,1	3,8	3,5	2,9	2,2	1,4	0,5									
					<small>0,26</small>	<small>0,275</small>	<small>0,285</small>	<small>0,3</small>	<small>0,31</small>	<small>0,32</small>	<small>0,325</small>	<small>0,33</small>	<small>0,325</small>	<small>0,315</small>	<small>0,3</small>									
B-N4 50-125D/A	N4 50-125D/A	80 M4	0,55	H m	5,5	5,5	5,4	5,4	5,2	5,1	4,8	4,4	3,8	3,2	2,5									
					<small>0,32</small>	<small>0,335</small>	<small>0,345</small>	<small>0,365</small>	<small>0,385</small>	<small>0,4</small>	<small>0,415</small>	<small>0,425</small>	<small>0,435</small>	<small>0,43</small>	<small>0,425</small>									
B-N4 50-125A/A	N4 50-125A/A	80 M4	0,75	H m	6,4	6,4	6,3	6,3	6,2	6,1	5,9	5,6	5,2	4,6	4	2,9								
					<small>0,37</small>	<small>0,39</small>	<small>0,405</small>	<small>0,425</small>	<small>0,45</small>	<small>0,47</small>	<small>0,49</small>	<small>0,51</small>	<small>0,525</small>	<small>0,535</small>	<small>0,535</small>	<small>0,535</small>	<small>0,525</small>							
B-N4 50-125S/A	N4 50-125S/A	80 M4	0,75	H m	6,8	6,8	6,8	6,8	6,7	6,6	6,4	6,2	5,8	5,3	4,8	3,8								
					<small>0,4</small>	<small>0,42</small>	<small>0,435</small>	<small>0,46</small>	<small>0,48</small>	<small>0,505</small>	<small>0,525</small>	<small>0,555</small>	<small>0,57</small>	<small>0,585</small>	<small>0,59</small>	<small>0,585</small>	<small>0,59</small>	<small>0,59</small>						
B-N4 50-160B/A	N4 50-160B/A	90 S4	1,1	H m	8,2	8,2	8,2	8,1	8	7,8	7,6	7,2	6,7	6,2	5,5	4,4	3,3							
					<small>0,449</small>	<small>0,469</small>	<small>0,496</small>	<small>0,524</small>	<small>0,555</small>	<small>0,584</small>	<small>0,610</small>	<small>0,643</small>	<small>0,671</small>	<small>0,683</small>	<small>0,692</small>	<small>0,687</small>	<small>0,692</small>	<small>0,687</small>	<small>0,673</small>					
B-N4 50-160A/A	N4 50-160A/A	90 S4	1,1	H m	9,6	9,6	9,6	9,5	9,5	9,3	9,1	8,8	8,3	7,8	7,2	6,1	4,9	3,1						
					<small>0,555</small>	<small>0,578</small>	<small>0,600</small>	<small>0,632</small>	<small>0,670</small>	<small>0,705</small>	<small>0,742</small>	<small>0,778</small>	<small>0,811</small>	<small>0,833</small>	<small>0,850</small>	<small>0,850</small>	<small>0,850</small>	<small>0,847</small>	<small>0,861</small>	<small>0,844</small>				
B-N4 50-200C/A	N4 50-200C/A	90 S4	1,1	P3 kW	11,8	11,8	11,7	11,7	11,5	11,3	10,9	10,4	9,8	9	8,1	6,3	4,7							
					<small>0,617</small>	<small>0,647</small>	<small>0,682</small>	<small>0,720</small>	<small>0,759</small>	<small>0,801</small>	<small>0,841</small>	<small>0,888</small>	<small>0,927</small>	<small>0,957</small>	<small>0,979</small>	<small>0,979</small>	<small>0,979</small>	<small>1,005</small>	<small>1,010</small>					
B-N4 50-200B/A	N4 50-200B/A	90 L4	1,5	P3 kW	13,4	13,4	13,4	13,3	13,1	12,9	12,6	12,1	11,5	10,8	9,9	8,2	6,4	4,7						
					<small>0,772</small>	<small>0,807</small>	<small>0,840</small>	<small>0,889</small>	<small>0,949</small>	<small>1,001</small>	<small>1,051</small>	<small>1,115</small>	<small>1,171</small>	<small>1,213</small>	<small>1,251</small>	<small>1,278</small>	<small>1,289</small>	<small>1,279</small>	<small>1,299</small>	<small>1,301</small>				
B-N4 50-200A/A	N4 50-200A/A	100 L4	2,2	P3 kW	14,9	14,9	14,9	14,9	14,8	14,6	14,4	14	13,4	12,8	11,4	10,4	8,6	6	3,7					
					<small>0,883</small>	<small>0,923</small>	<small>0,962</small>	<small>1,019</small>	<small>1,074</small>	<small>1,135</small>	<small>1,194</small>	<small>1,273</small>	<small>1,345</small>	<small>1,409</small>	<small>1,464</small>	<small>1,524</small>	<small>1,535</small>	<small>1,535</small>	<small>1,576</small>	<small>1,596</small>				
B-N4 50-250D/A	N4 50-250D/A	100 L4	2,2	P3 kW	14,5	14,4	14,3	14	13,7	13,4	13	12,2	11,2	9,7	8,1	5,4	2,3							
					<small>0,843</small>	<small>0,886</small>	<small>0,929</small>	<small>0,990</small>	<small>1,049</small>	<small>1,108</small>	<small>1,160</small>	<small>1,230</small>	<small>1,300</small>	<small>1,364</small>	<small>1,395</small>	<small>1,435</small>	<small>1,435</small>	<small>1,468</small>	<small>1,488</small>					
B-N4 50-250C/A	N4 50-250C/A	100 L4	2,2	P3 kW	17,8	17,8	17,7	17,5	17,2	16,8	16,4	15,7	14,9	13,8	12,4	9,7	6,8							
					<small>1,091</small>	<small>1,140</small>	<small>1,188</small>	<small>1,258</small>	<small>1,324</small>	<small>1,397</small>	<small>1,465</small>	<small>1,554</small>	<small>1,633</small>	<small>1,700</small>	<small>1,755</small>	<small>1,817</small>	<small>1,844</small>							
B-N4 50-250B/A	N4 50-250B/A	100 L4	3	P3 kW	20,7	20,7	20,7	20,6	20,4	20	19,5	18,9	18,2	17,1	15,9	13,2	10,6	5,8						
					<small>1,374</small>	<small>1,437</small>	<small>1,499</small>	<small>1,591</small>	<small>1,680</small>	<small>1,781</small>	<small>1,878</small>	<small>2,009</small>	<small>2,130</small>	<small>2,241</small>	<small>2,320</small>	<small>2,402</small>	<small>2,484</small>	<small>2,510</small>	<small>2,580</small>					
B-N4 50-250A/A	N4 50-250A/A	112 M4	4	P3 kW	22,7	22,7	22,6	22,5	22,4	22,1	21,6	21	20,2	19,4	18,3	16,4	13,6	9						
					<small>1,493</small>	<small>1,561</small>	<small>1,628</small>	<small>1,728</small>	<small>1,825</small>	<small>1,935</small>	<small>2,042</small>	<small>2,186</small>	<small>2,322</small>	<small>2,445</small>	<small>2,557</small>	<small>2,670</small>	<small>2,804</small>	<small>2,893</small>						

PUMP B-N4	PUMP N4	MOTOR	P2 kW	Q m³/h	21	24	27	30	33	37,8	42	48	54	60	66	75	84	96	108	120				
				Q l/min	350	400	450	500	550	630	700	800	900	1000	1100	1250	1400	1600	1800	2000				
B-N4 65-125E/B	N4 65-125E/B	80 M4	0,75	H m	4,1	4,1	4	3,9	3,8	3,6	3,3	2,9	2,3											
					<small>0,38</small>	<small>0,4</small>	<small>0,41</small>	<small>0,44</small>	<small>0,45</small>	<small>0,48</small>	<small>0,49</small>	<small>0,5</small>	<small>0,5</small>											
B-N4 65-125C/B	N4 65-125C/B	80 M4	0,75	H m	5,3	5,2	5,2	5,1	5	4,8	4,6	4,1	3,6	3										
					<small>0,49</small>	<small>0,51</small>	<small>0,54</small>	<small>0,58</small>	<small>0,6</small>	<small>0,63</small>	<small>0,65</small>	<small>0,69</small>	<small>0,69</small>	<small>0,69</small>										
B-N4 65-125A/B	N4 65-125A/B	90 S4	1,1	H m	6,5	6,4	6,4	6,3	6,2	6	5,8	5,5	5	4,4										
					<small>0,61</small>	<small>0,65</small>	<small>0,69</small>	<small>0,73</small>	<small>0,75</small>	<small>0,8</small>	<small>0,84</small>	<small>0,91</small>	<small>0,91</small>	<small>0,93</small>										
B-N4 65-160C/B	N4 65-160C/B	90 S4	1,1	H m	6,1	6,1	6	6	5,9	5,8	5,6	5,3	4,8	4,2										
					<small>0,57</small>	<small>0,61</small>	<small>0,65</small>	<small>0,69</small>	<small>0,72</small>	<small>0,78</small>	<small>0,83</small>	<small>0,88</small>	<small>0,92</small>	<small>0,93</small>										
B-N4 65-160B/B	N4 65-160B/B	90 S4	1,1	H m	7,2	7,1	7,1	7	7	6,8	6,6	6,3	5,8	5,2	4,5									
					<small>0,68</small>	<small>0,73</small>	<small>0,77</small>	<small>0,82</small>	<small>0,86</small>	<small>0,92</small>	<small>0,97</small>	<small>1,03</small>	<small>1,07</small>	<small>1,11</small>	<small>1,12</small>									
B-N4 65-160A/B	N4 65-160A/B	90 L4	1,5	P3 kW	8,8	8,8	8,7	8,7	8,6	8,5	8,3	8	7,6	7,1	6,4	5,2								
					<small>0,87</small>	<small>0,93</small>	<small>0,98</small>	<small>1,04</small>	<small>1,09</small>	<small>1,17</small>	<small>1,24</small>	<small>1,32</small>	<small>1,39</small>	<small>1,44</small>	<small>1,48</small>	<small>1,51</small>								
B-N4 65-160S	N4 65-160S	100 L4	2,2	P3 kW	10,2	10,2	10,1	10,1	10	9,9	9,7	9,4	9,1	8,6	8	7	5,7							
					<small>1,09</small>	<small>1,15</small>	<small>1,22</small>	<small>1,28</small>	<small>1,34</small>	<small>1,44</small>	<small>1,52</small>	<small>1,62</small>	<small>1,71</small>	<small>1,79</small>	<small>1,86</small>	<small>1,93</small>	<small>2,02</small>	<small>2,15</small>	<small>2,28</small>	<small>2,42</small>				
B-N4 65-200B/B	N4 65-200B/B	100 L4	2,2	P3 kW	11,7	11,7	11,6	11,6	11,5	11,3	11	10,6	10,1	9,5	8,7	7,4	5,8	3,3						
					<small>1,25</small>	<small>1,3</small>	<small>1,35</small>	<small>1,45</small>	<small>1,5</small>	<small>1,6</small>	<small>1,7</small>	<small>1,8</small>	<small>1,9</small>	<small>2</small>	<small>2,05</small>	<small>2,15</small>	<small>2,2</small>	<small>2,15</small>						
B-N4 65-200A/B	N4 65-200A/B	100 L4	3	P3 kW	14,2	14,2	14,2	14,1	14,1	13,9	13,7	13,4	13	12,5	11,8	10,7	9,3	7						
					<small>1,55</small>	<small>1,65</small>	<small>1,75</small>	<small>1,85</small>	<small>1,95</small>	<small>2,1</small>	<small>2,2</small>	<small>2,35</small>	<small>2,5</small>	<small>2,65</small>	<small>2,75</small>	<small>2,9</small>	<small>3,3</small>	<small>3,7</small>	<small>4,3</small>	<small>5,1</small>				
B-N4 65-250B/B	N4 65-250B/B	112 M4	4	P3 kW	17,9	18	18	18	18	17,8	17,5	17	16,3	15,4	14,4	12,5	10,4	7						
					<small>1,95</small>	<small>2,05</small>	<small>2,2</small>	<small>2,3</small>	<small>2,45</small>	<small>2,6</small>	<small>2,75</small>	<small>2,95</small>	<small>3,15</small>	<small>3,3</small>	<small>3,45</small>	<small>3,65</small>	<small>3,85</small>	<small>4,2</small>	<small>4,8</small>	<small>5,7</small>				
B-N4 65-250A/B	N4 65-250A/B	132 S4	5,5	P3 kW	22,2	22,3	22,4	22,4	22,4	22,2	22	21,6	21	20,2	19,3	17,6	15,7	12,6						
					<small>2,55</small>	<small>2,7</small>	<small>2,85</small>	<small>3</small>	<small>3,15</small>	<small>3,4</small>	<small>3,6</small>	<small>3,85</small>	<small>4,1</small>	<small>4,35</small>	<small>4,6</small>	<small>4,85</small>	<small>5,1</small>	<small>5,3</small>	<small>5,8</small>					
B-N4 65-315C/A	N4 65-315C/A	132 S4	5,5	P3 kW	25,8	25,7	25,5	25,3	25	24,4	23,8	22,8	21,5	20	18,2	15	11							
					<small>3,12</small>	<small>3,31</small>	<small>3,49</small>	<small>3,67</small>	<small>3,93</small>	<small>4,05</small>	<small>4,25</small>	<small>4,5</small>	<small>4,75</small>	<small>4,95</small>	<small>5,12</small>	<small>5,3</small>	<small>5,44</small>							
B-N4 65-315B/A	N4 65-315B/A	132 M4	7,5	P3 kW	31	31	30,9	30,8	30,6	30,2	29,7	28,8	27,8	26,5	25	22,2	18,6							
					<small>3,97</small>	<small>4,23</small>	<small>4,45</small>	<small>4,65</small>	<small>4,85</small>	<small>5,15</small>	<small>5,4</small>	<small>5,75</small>	<small>6,1</small>	<small>6,4</small>	<small>6,65</small>	<small>7</small>	<small>7,2</small>	<small>7,2</small>						
B-N4 65-315A/A	N4 65-315A/A	160 M4	11	P3 kW	35,9																			

N4

End-Suction Centrifugal Pumps standardized EN 733



Performance n ≈ 1450 rpm

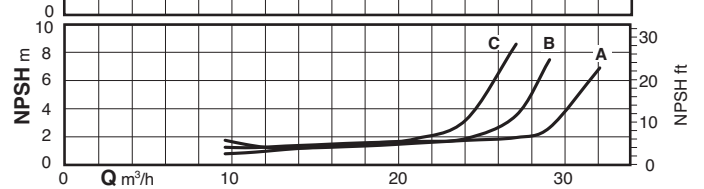
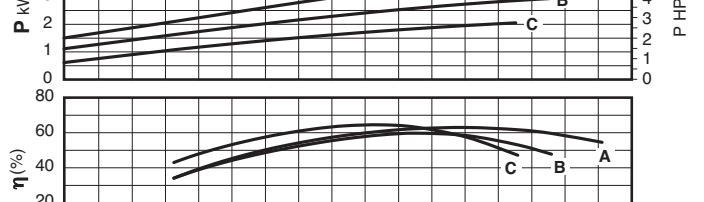
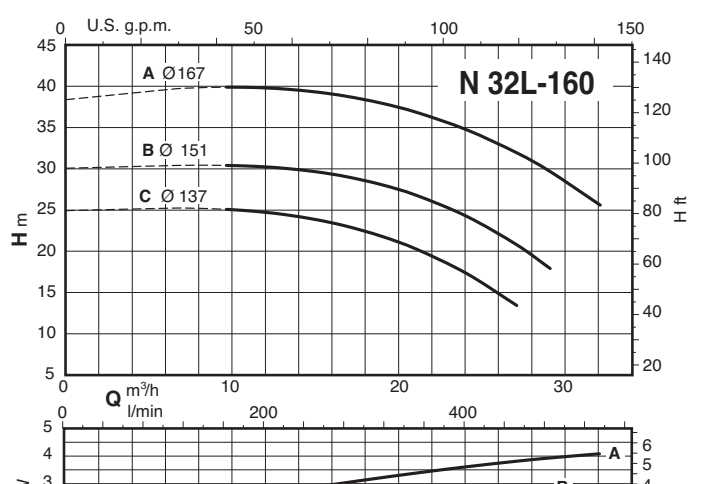
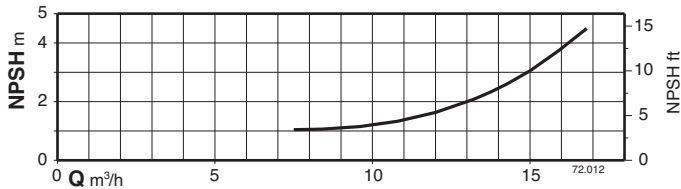
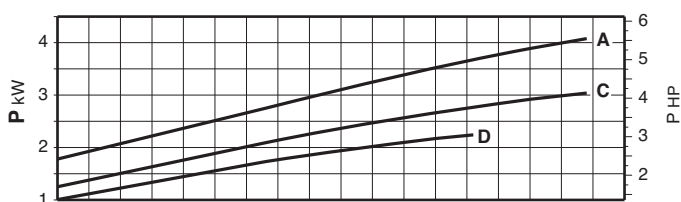
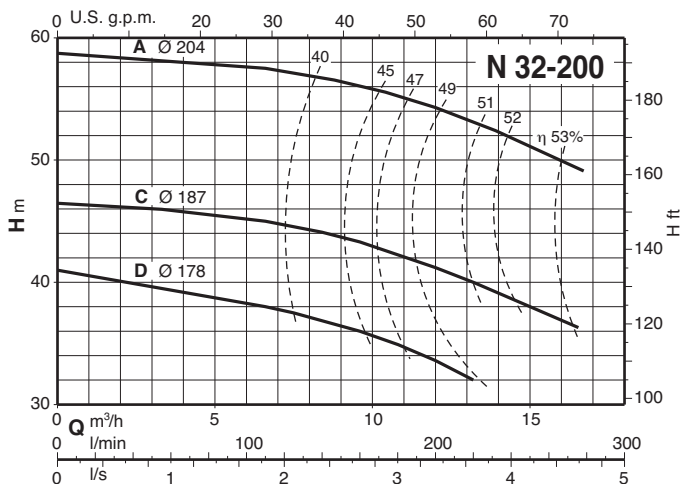
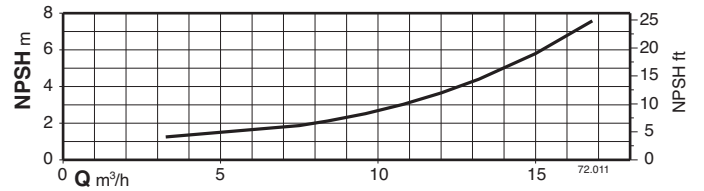
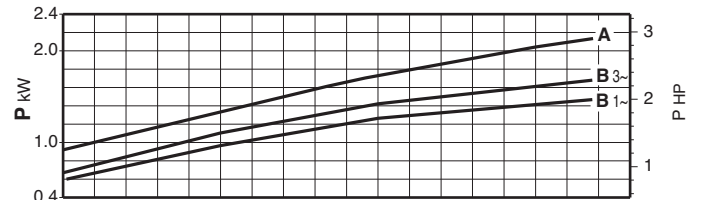
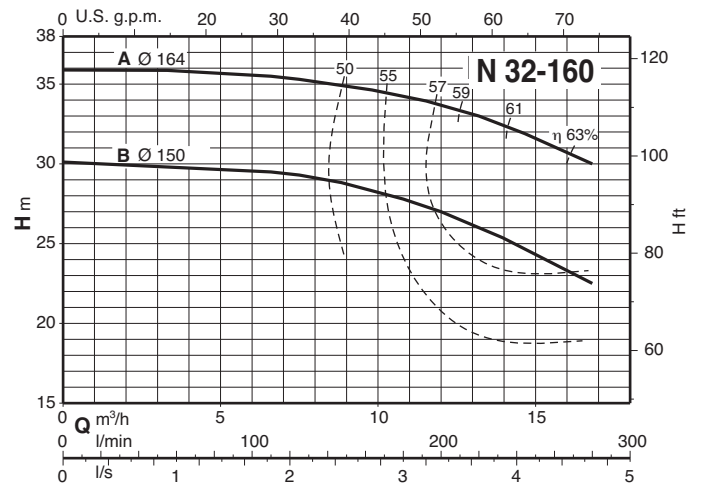
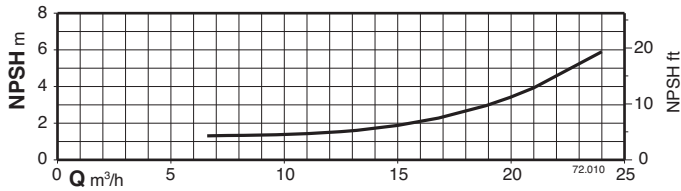
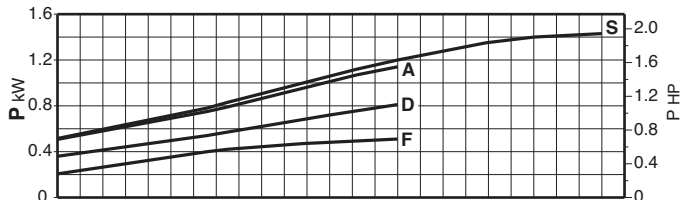
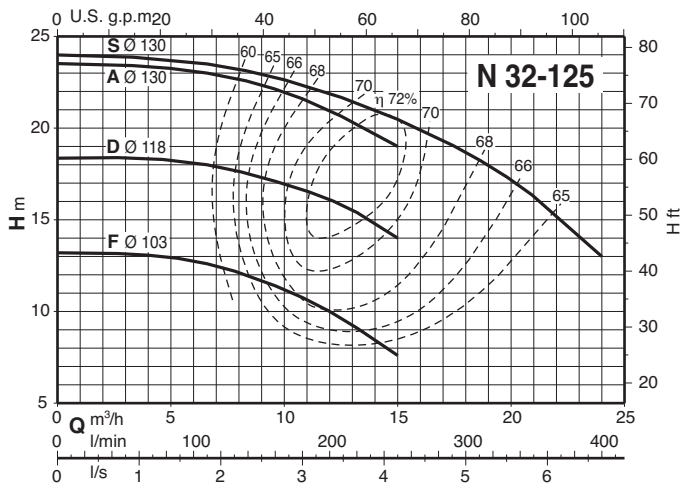
PUMP B-N4	PUMP N4	MOTOR	P ₂ kW	Q	H _m																
				Q l/min	48	54	60	66	75	84	96	108	120	132	150	168	180	192	210		
B-N4 100-200C/A	N4 100-200C/A	100 L4	3	800	9,4	9,3	9,2	9,1	8,9	8,5	8	7,3	6,5	5,6	4						
B-N4 100-200B/A	N4 100-200B/A	112 M4	4	900	12	11,9	11,8	11,7	11,5	11,2	10,7	10	9,3	8,4	6,7	4,5					
B-N4 100-200A/A	N4 100-200A/A	132 S4	5,5	1000	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*			
B-N4 100-250B/A	N4 100-250B/A	132 M4	7,5	1100	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		
B-N4 100-250A/A	N4 100-250A/A	160 M4	11	1250	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		
B-N4 100-315C/A	N4 100-315C/A	160 M4	11	1400	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*			
B-N4 100-315B/A	N4 100-315B/A	160 L4	15	1500	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*		
B-N4 100-315A/A	N4 100-315A/A	180 M4	18,5	1600	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*		
B-N4 100-400C/A	N4 100-400C/A	180 L4	22	1800	41,3	41,2	41,1	41	40,7	40,4	39,8	39	38	36,5	34	31	28,7	26			
B-N4 100-400B/A	N4 100-400B/A	200 L4	30	2000	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*		
B-N4 100-400A/A	N4 100-400A/A	225 S4	37	2200	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*		

PUMP B-N4	PUMP N4	MOTOR	P ₂ kW	Q	H _m																
				Q l/min	84	96	108	120	132	150	168	180	192	210	240	270	300	330			
B-N4 125-250E/A	N4 125-250E/A	132 S4	5,5	1400	11	10,8	10,5	10,1	9,7	9,1	8,3	7,8	7,2	6,2	4,4						
B-N4 125-250D/A	N4 125-250D/A	132 M4	7,5	1600	14	13,9	13,7	13,4	13	12,4	11,6	11	10,4	9,4	7,4	5,1					
B-N4 125-250C/A	N4 125-250C/A	160 M4	11	1800	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				
B-N4 125-250B/A	N4 125-250B/A	160 M4	11	2000	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				
B-N4 125-250A/A	N4 125-250A/A	160 L4	15	2200	22,7	22,7	22,6	22,4	22,2	21,8	21,2	20,8	20,1	19,33	17,4	15	12,4	9,3			
B-N4 125-315C/A	N4 125-315C/A	180 M4	18,5	2500	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*			
B-N4 125-315B/A	N4 125-315B/A	180 L4	22	2800	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*			
B-N4 125-315A/A	N4 125-315A/A	200 L4	30	3000	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*			
B-N4 125-400C/A	N4 125-400C/A	225 S4	37	3200	45,4	45,3	45,2	45,1	44,9	44,4	43,7	43	42	40	37	33	28,5*	23,5*			
B-N4 125-400B/A	N4 125-400B/A	225 M4	45	3500	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*			
B-N4 125-400A/A	N4 125-400A/A	250 M4	55	3800	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*			

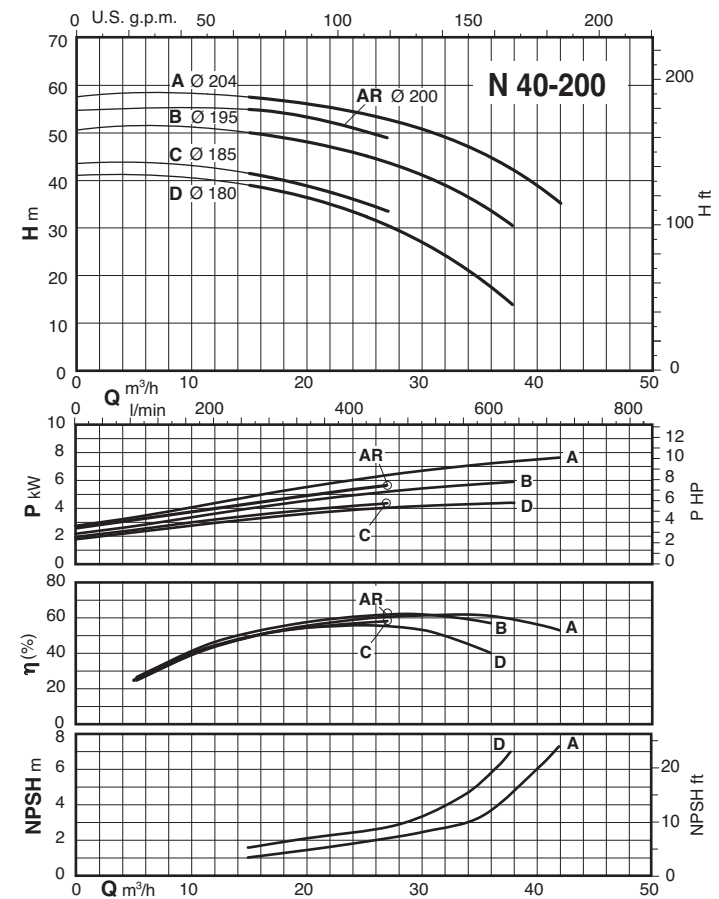
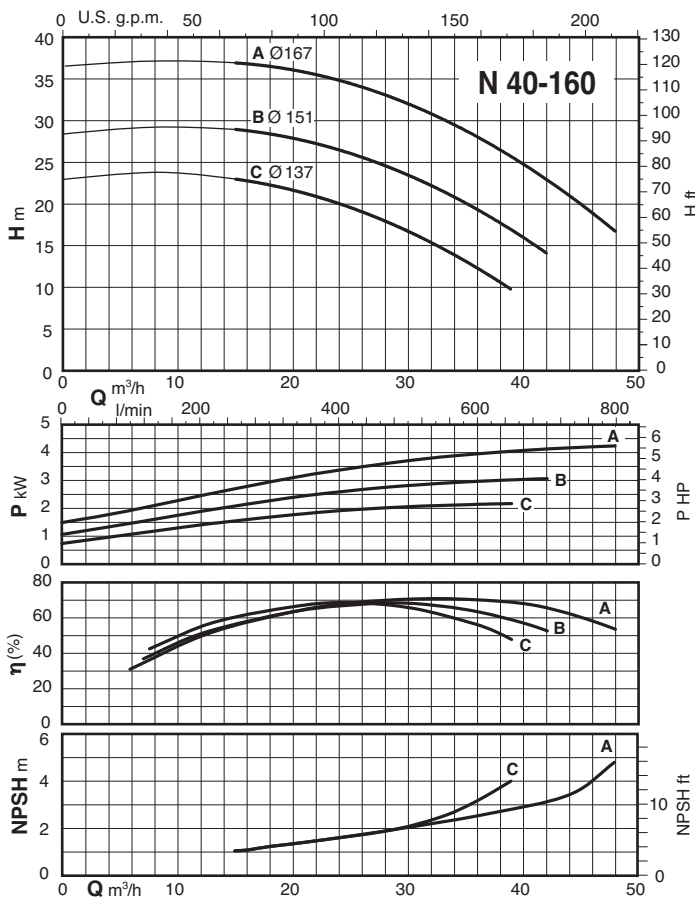
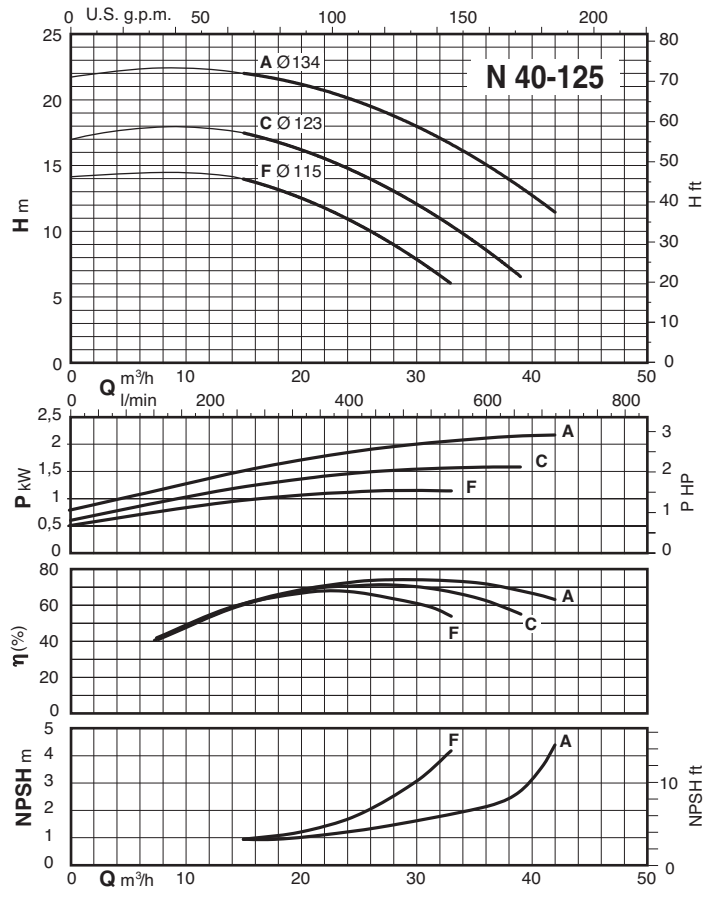
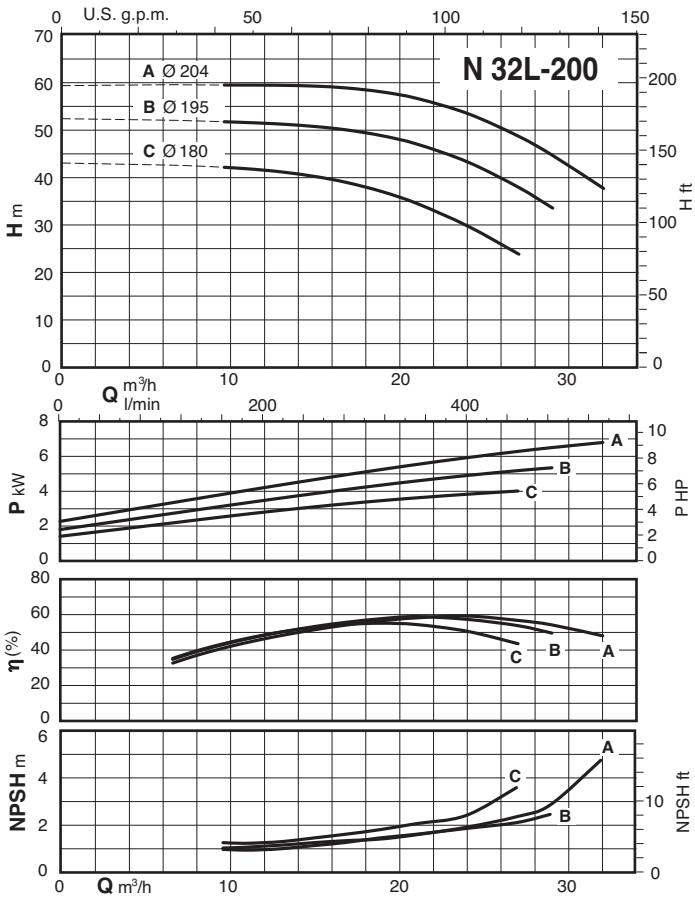
PUMP B-N4	PUMP N4	MOTOR	P ₂ kW	Q	H _m																
				Q l/min	132	150	168	180	192	210	240	270	300	330	360	390	420	450	480		
B-N4 150-315D/A	N4 150-315D/A	180 M4	18,5	2200	22,8	22,6	22,3	22	21,7	21,1	20	18,6	17	15,1	13	10,6	8*				
B-N4 150-315C/A	N4 150-315C/A	180 L4	22	2500	25,6	25,4	25,1	24,9	24,7	24,2	23,3	22	20,4	18,5	16,5	14,1	11,6*	8,9*			
B-N4 150-315B/A	N4 150-315B/A	200 L4	30	2800	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*			
B-N4 150-315A/A	N4 150-315A/A	225 S4	37	3000	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*			
B-N4 150-400C/A	N4 150-400C/A	225 M4	45	3200	45	44,9	44,7	44,5	44	43,5	42,5	40,5	38,5	36	33,5	30,5	27*	23,5*			
B-N4 150-400B/A	N4 150-400B/A	250 M4	55	3500	50,8	50,7	50,5	50,3	50	49,5	48,5	47	45	43	40,5	38	35*	32*			
B-N4 150-400A/A	N4 150-400A/A	280 S4	75	3800	58,8	58,7	58,6	58,5	58,3	57,9	57	55,5	54	52	49,5	47	44*	41*			

N4 Standard construction. **P₂** Rated motor power output. **H** Total head in m. * Maximum suction lift 1-2 m.
B-N4 Bronze construction. **P₃** Pump power input.

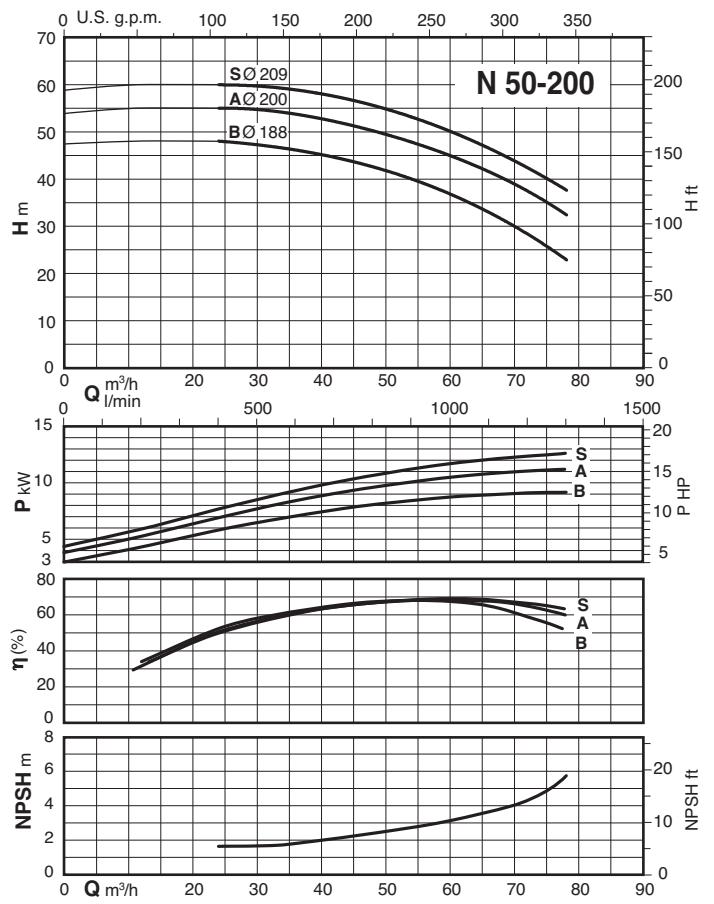
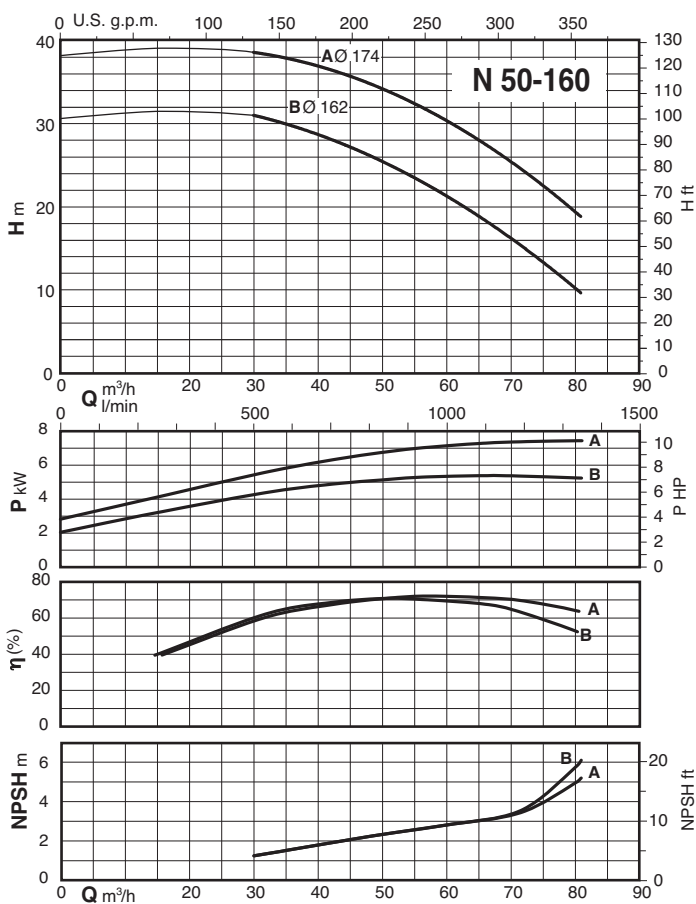
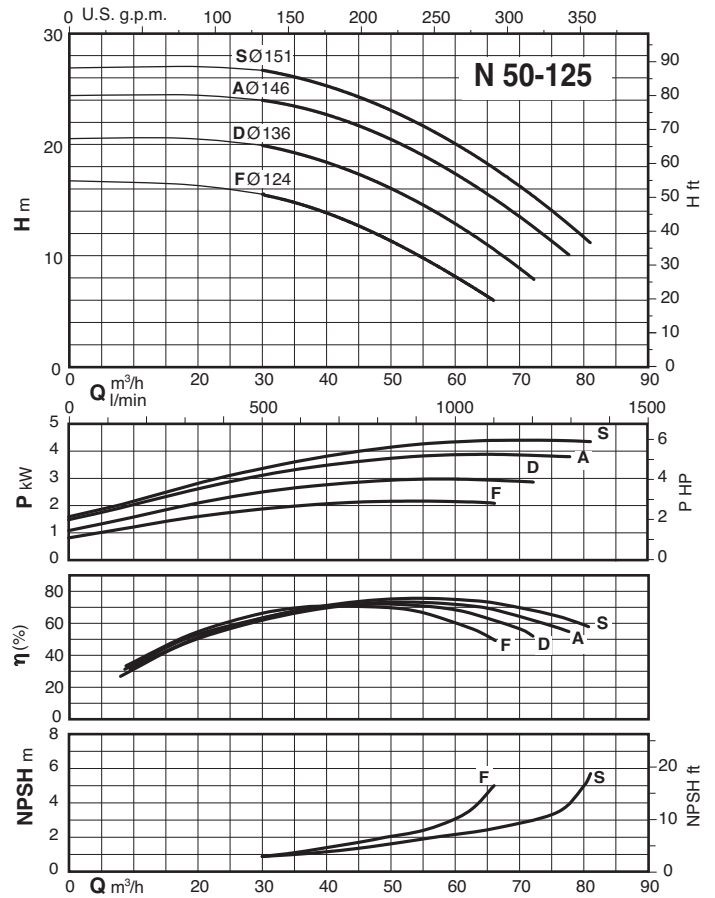
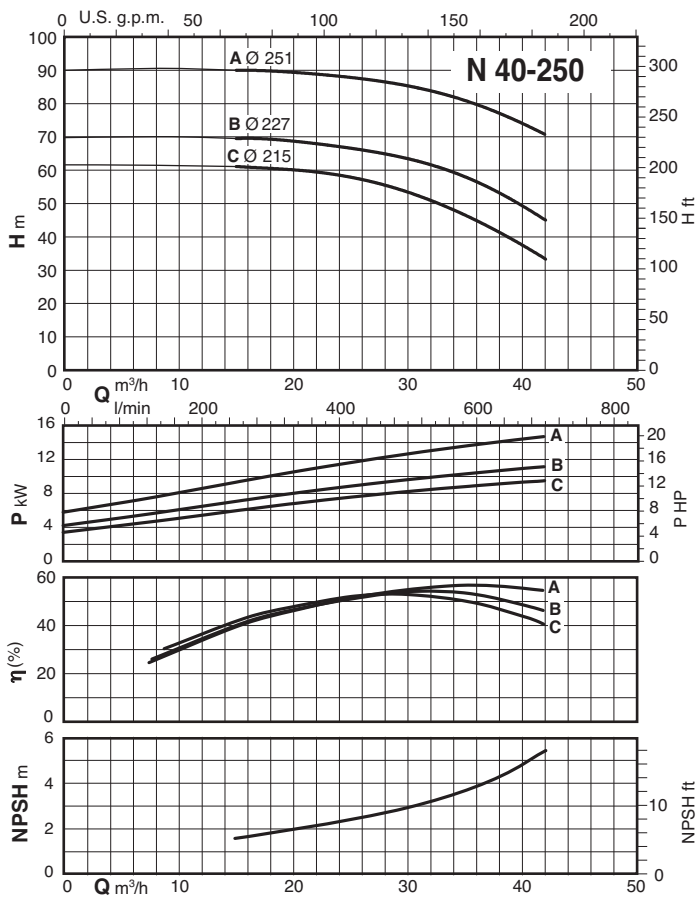
Characteristic curves $n \approx 2900$ rpm



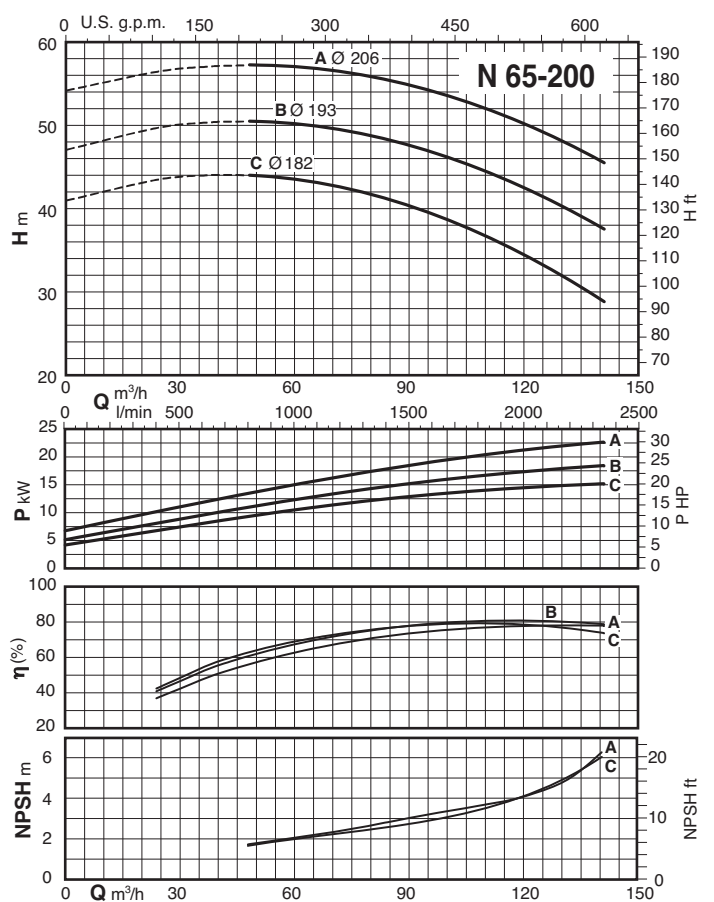
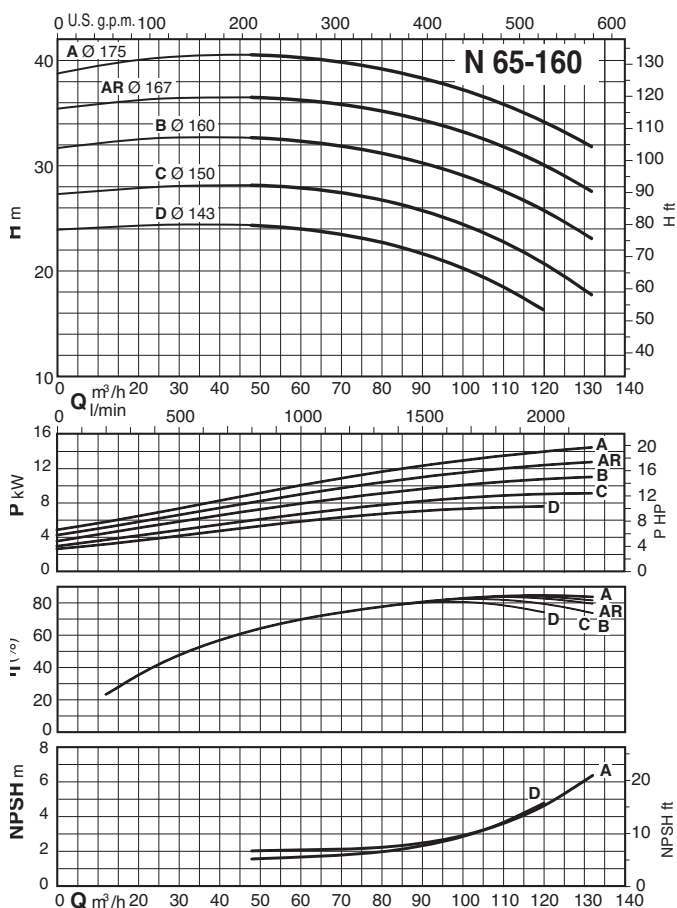
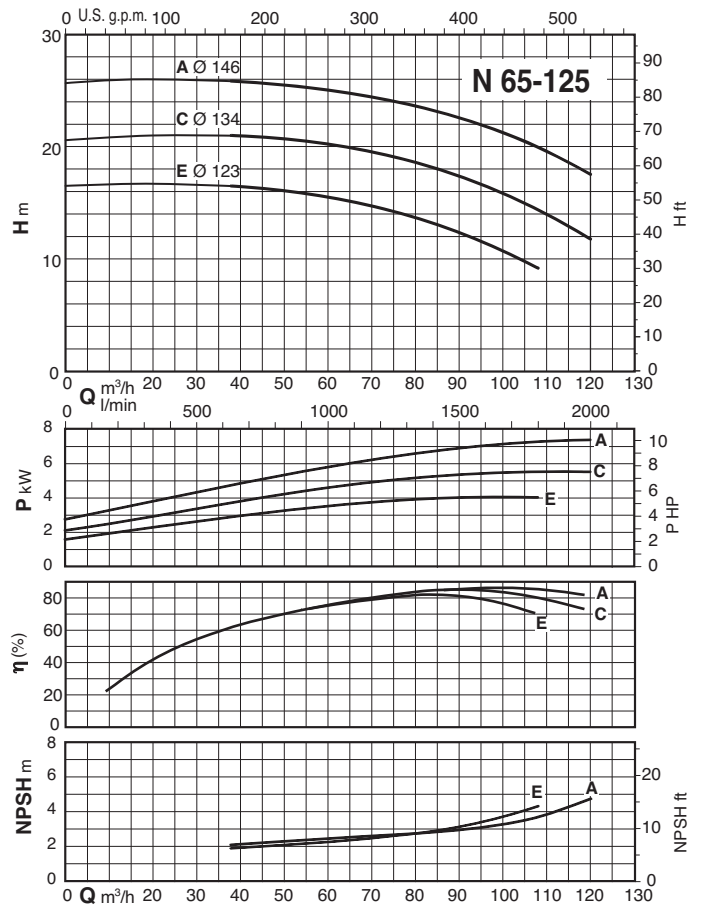
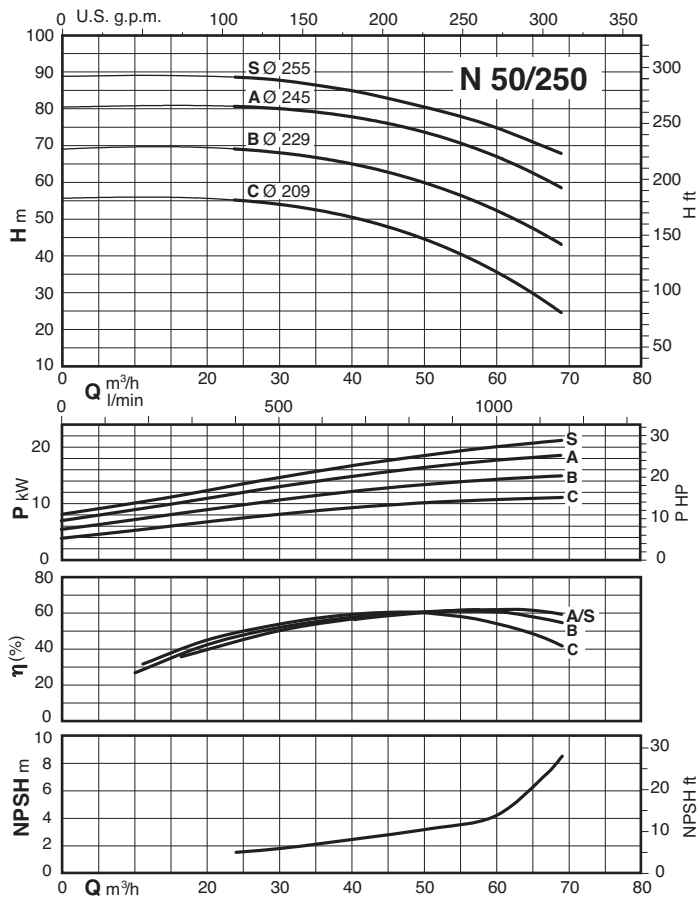
Characteristic curves $n \approx 2900$ rpm



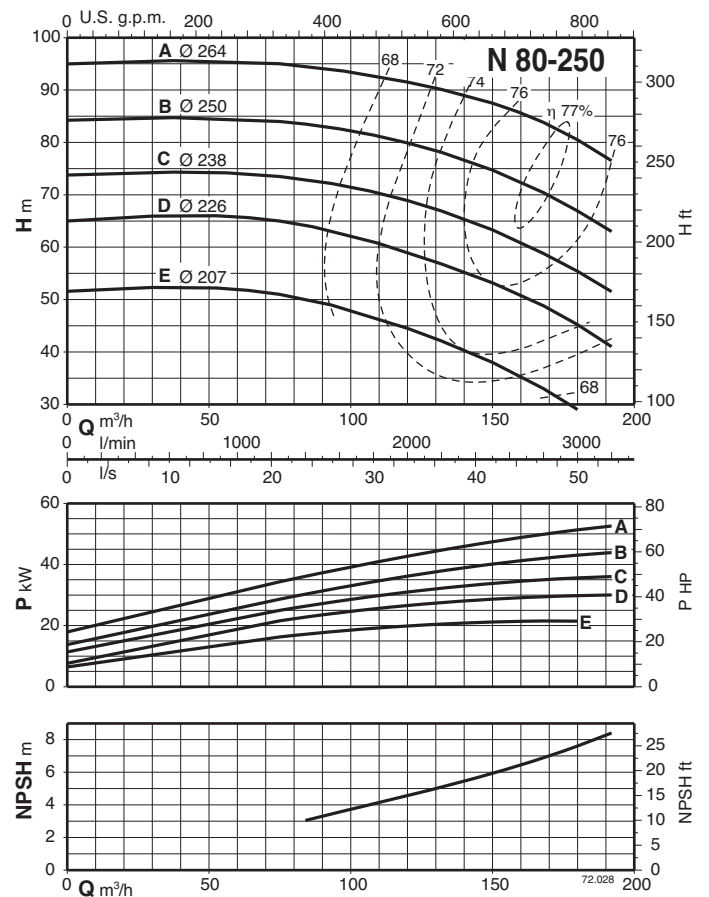
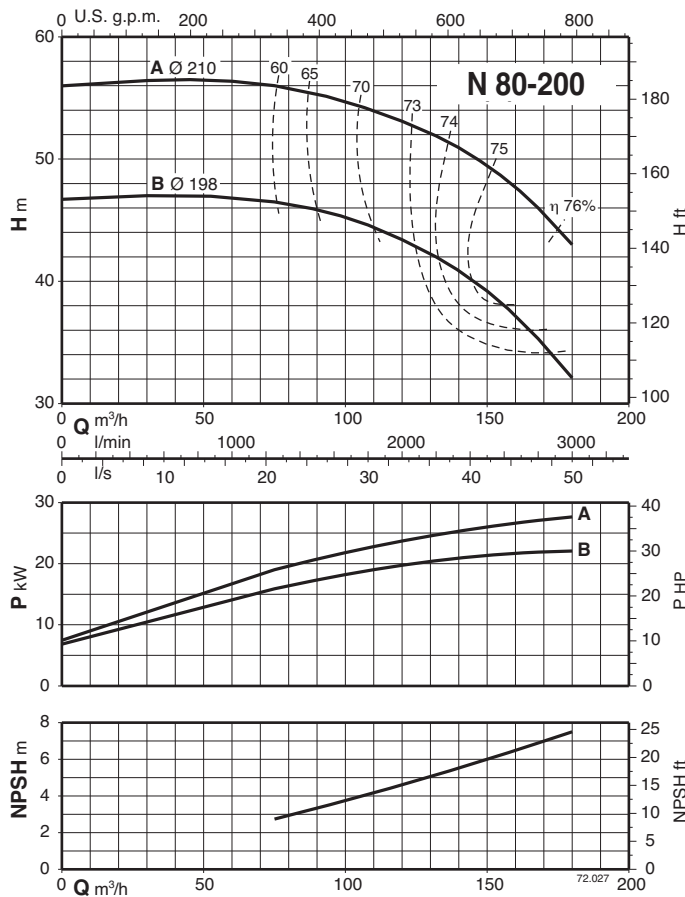
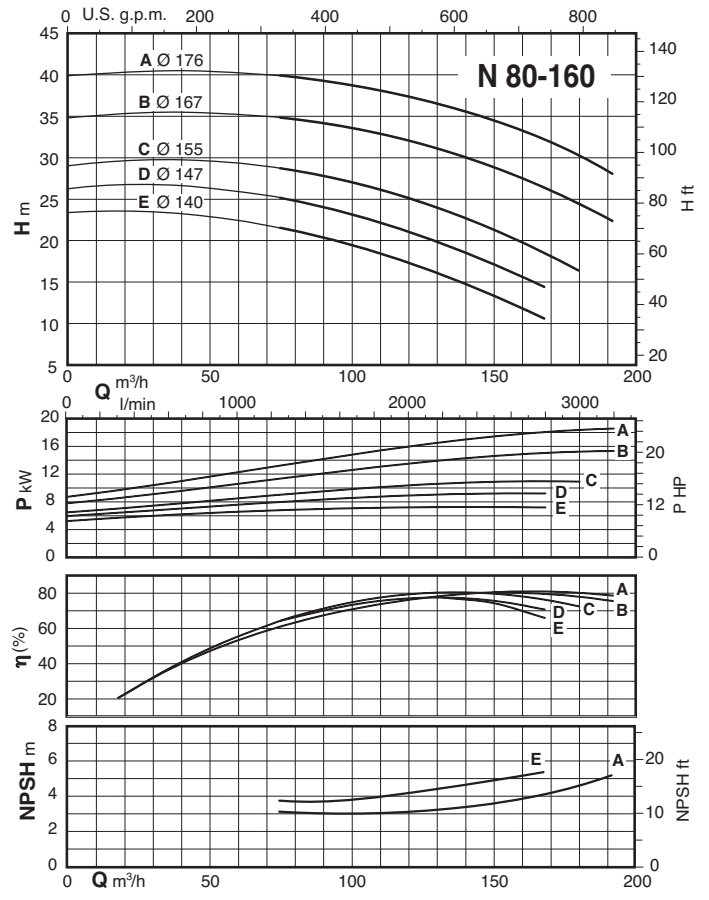
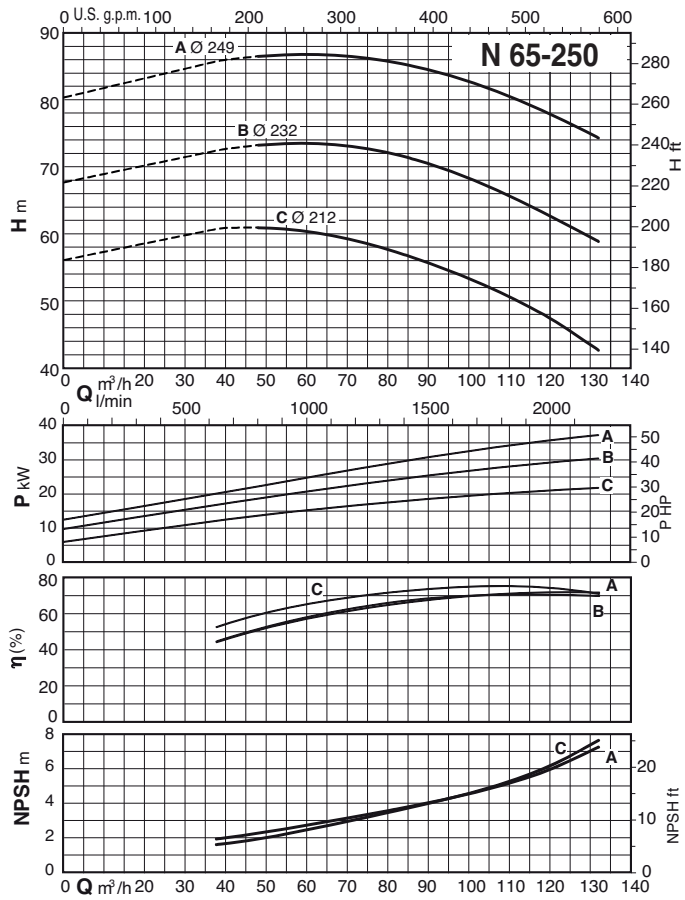
Characteristic curves $n \approx 2900$ rpm



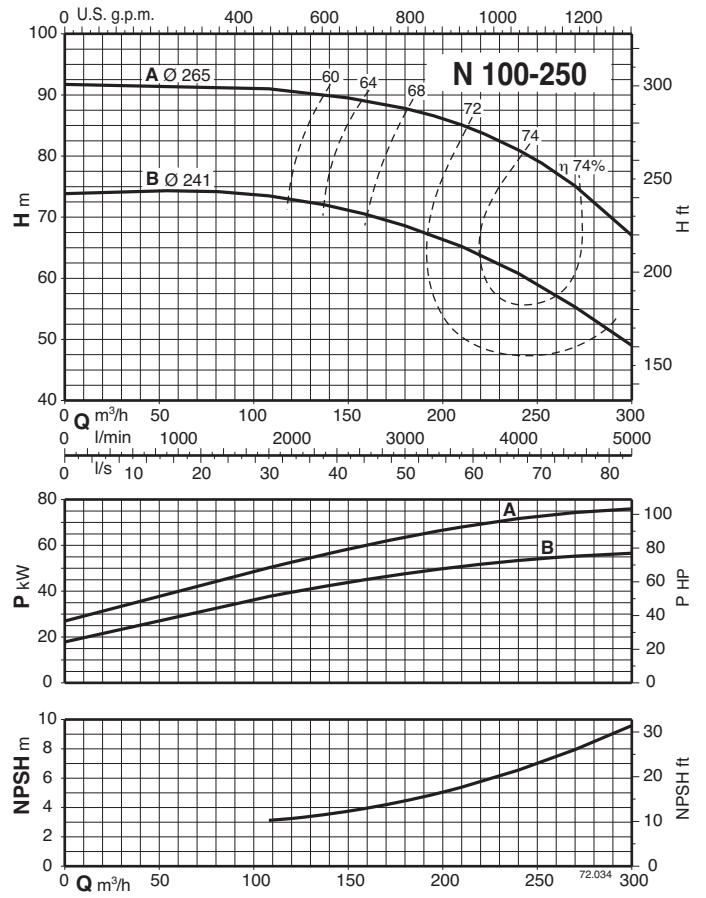
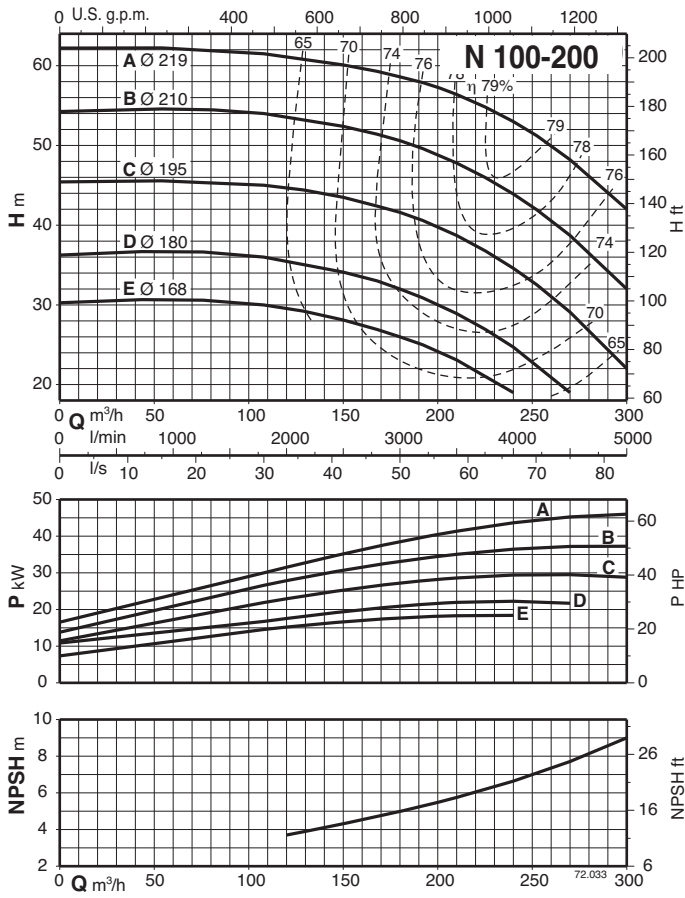
Characteristic curves $n \approx 2900$ rpm



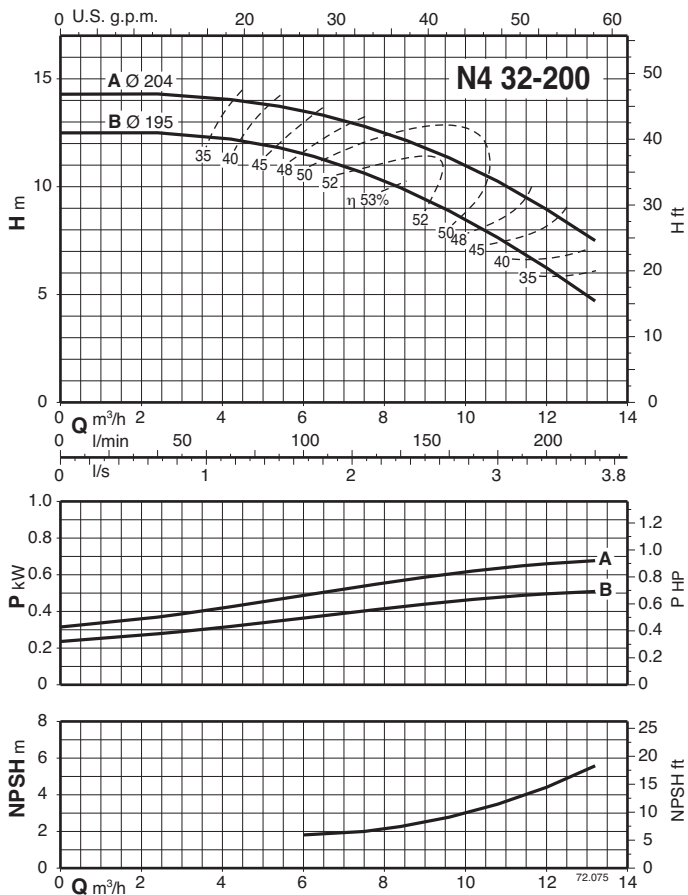
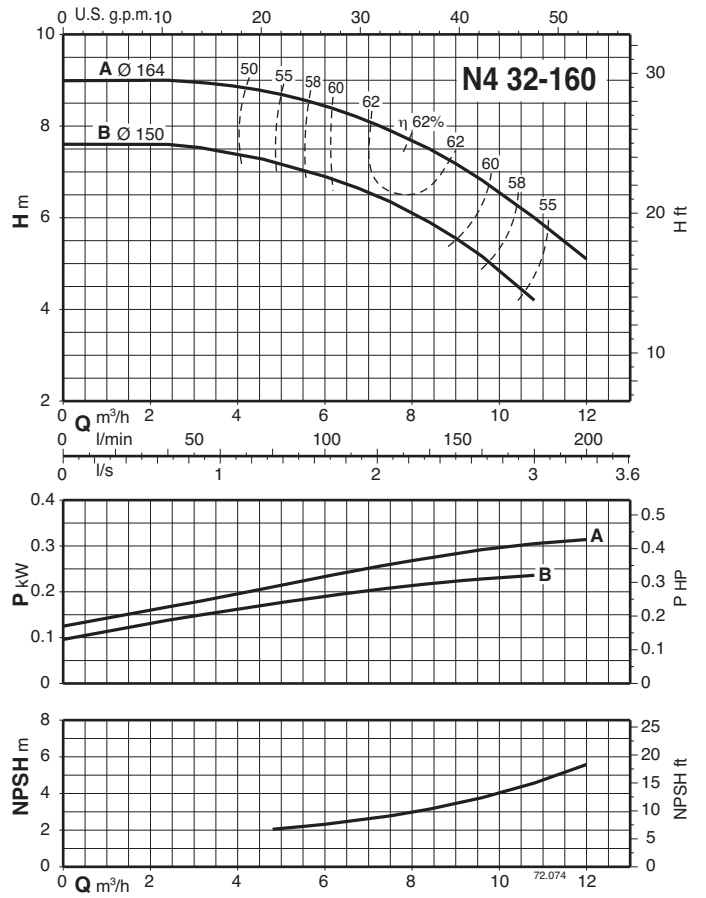
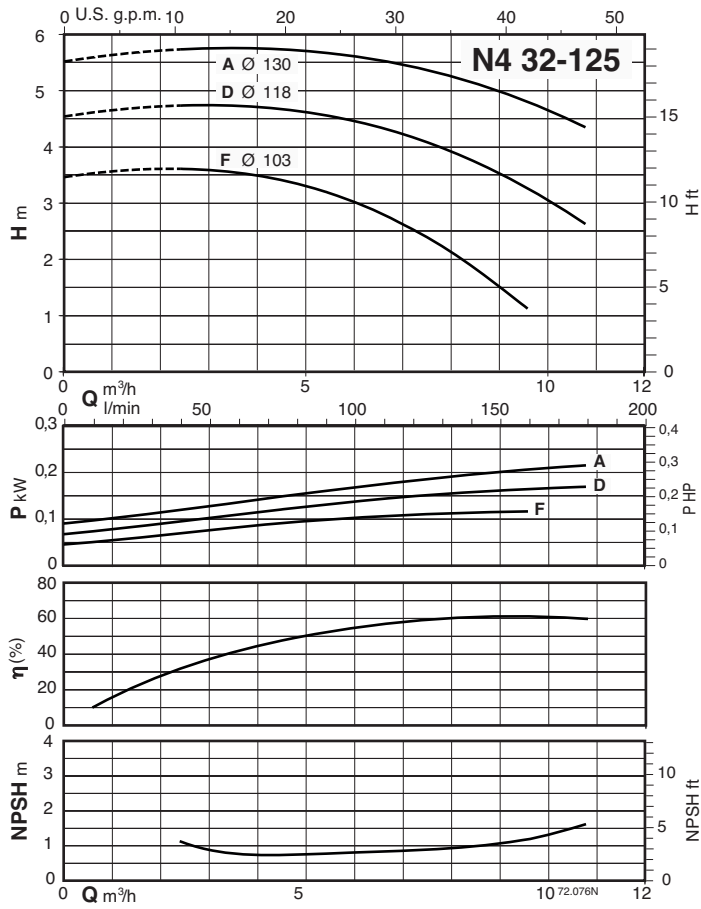
Characteristic curves $n \approx 2900$ rpm



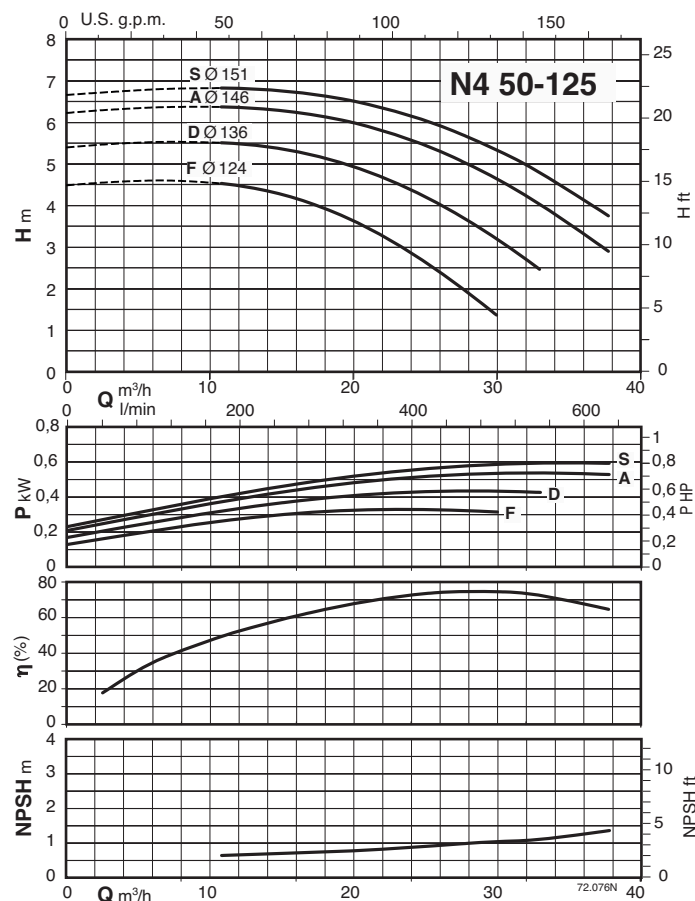
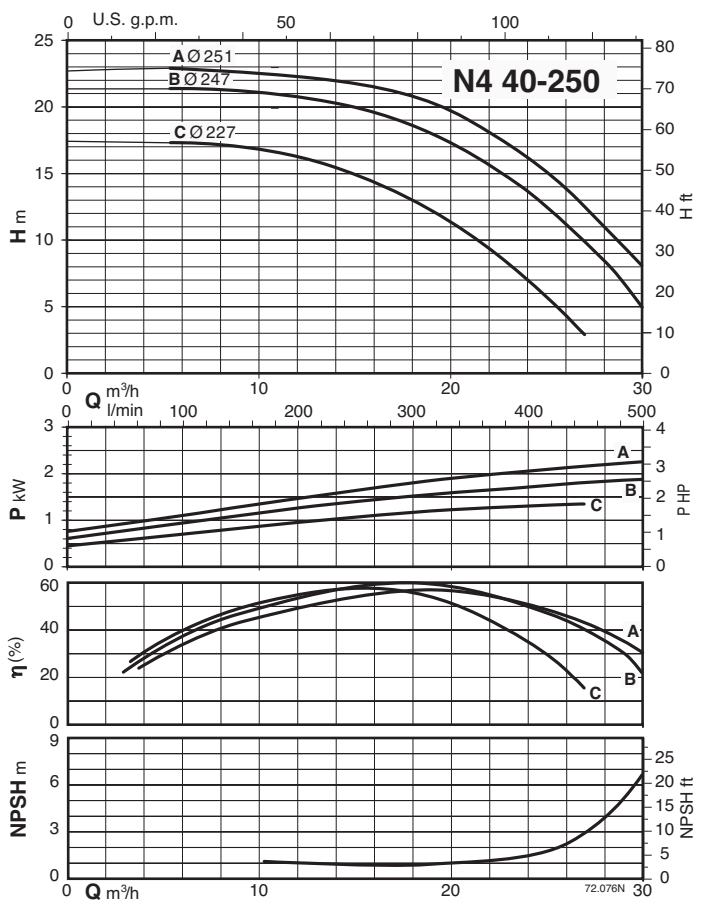
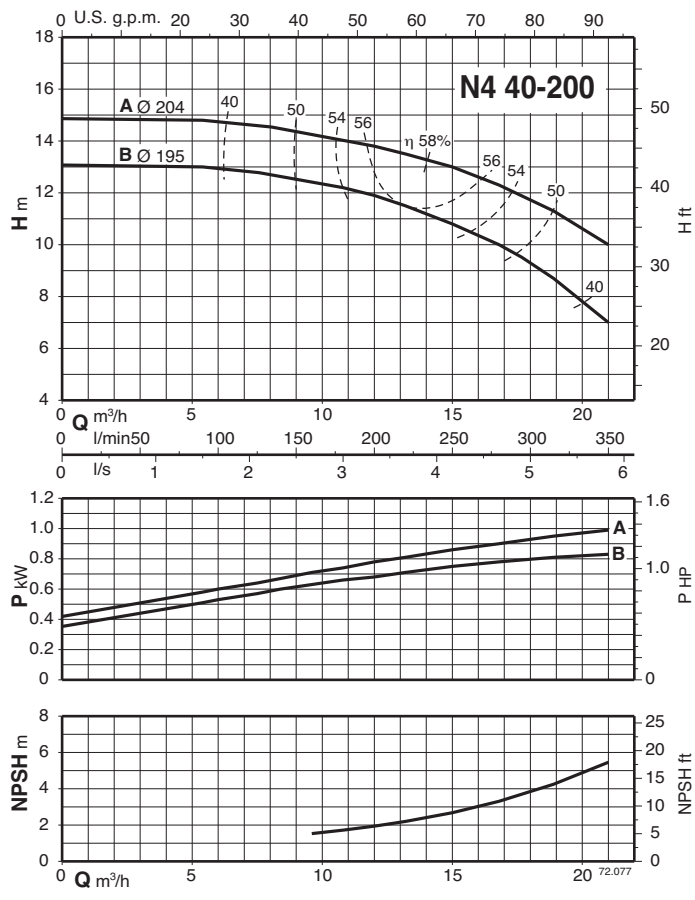
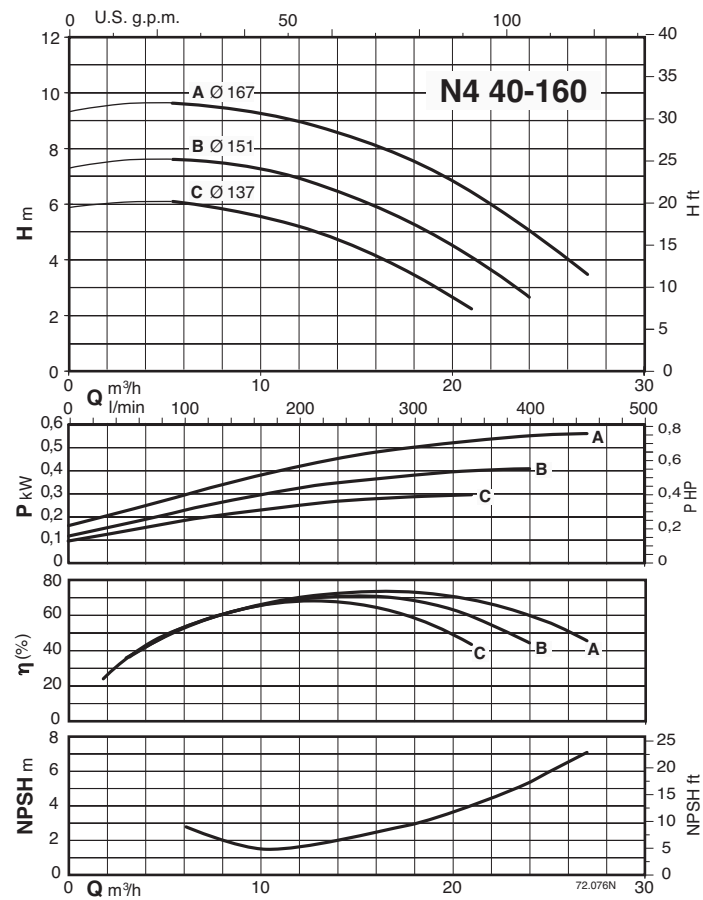
Characteristic curves $n \approx 2900$ rpm



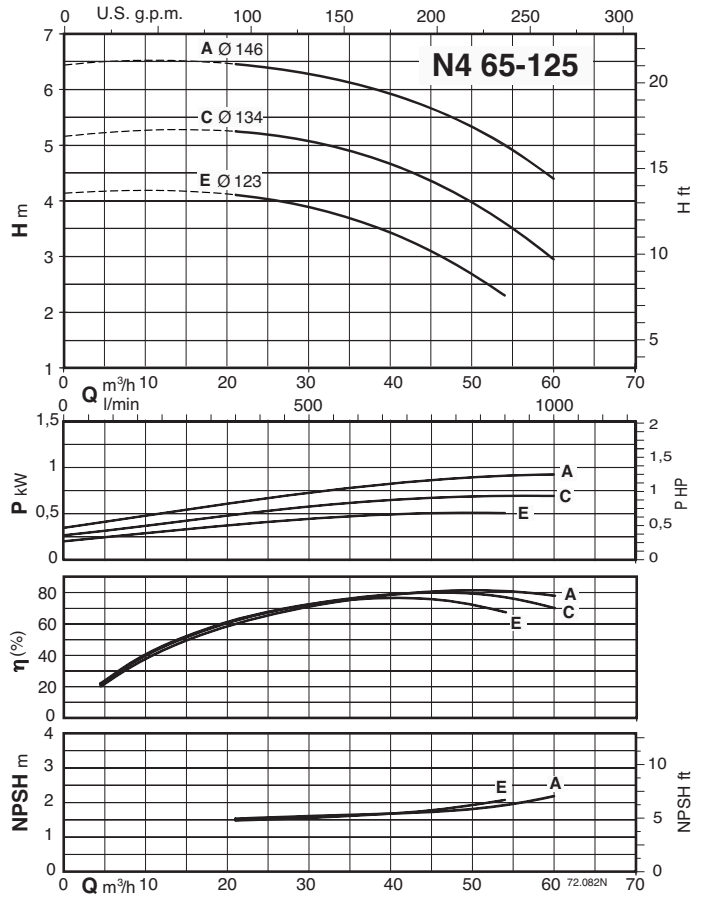
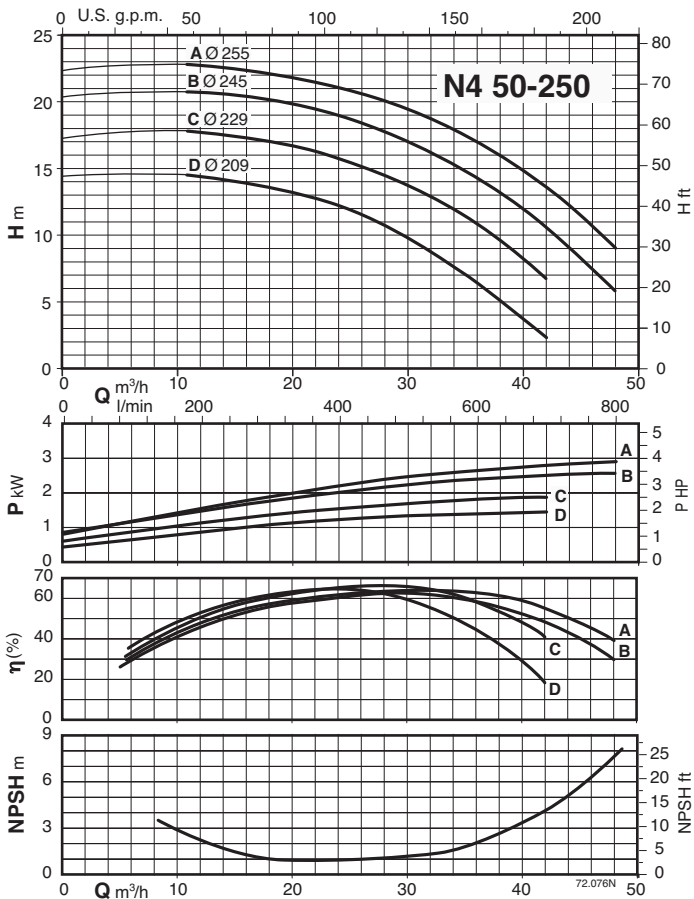
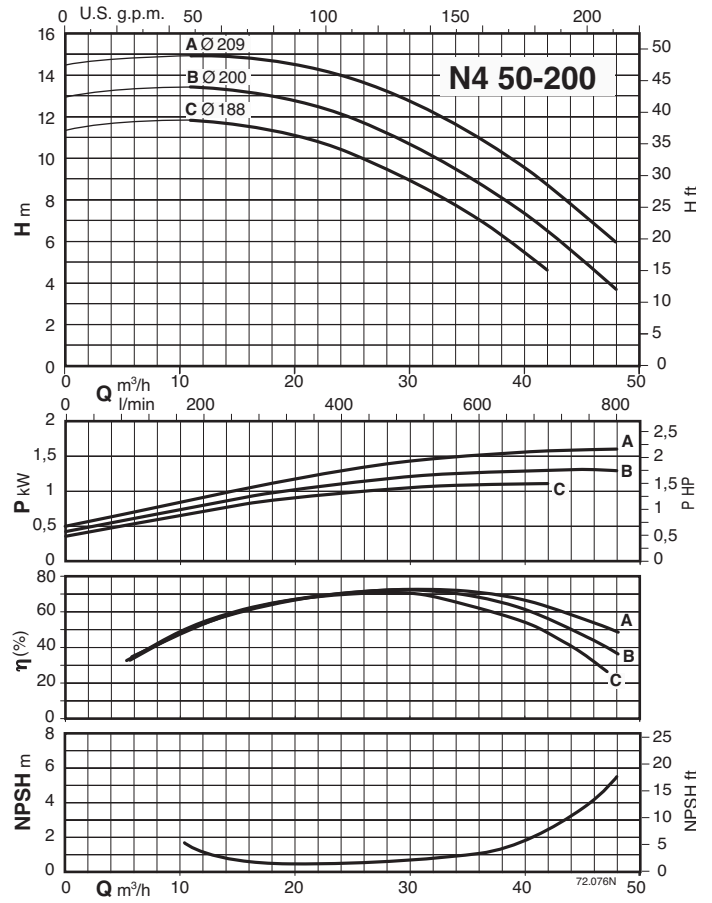
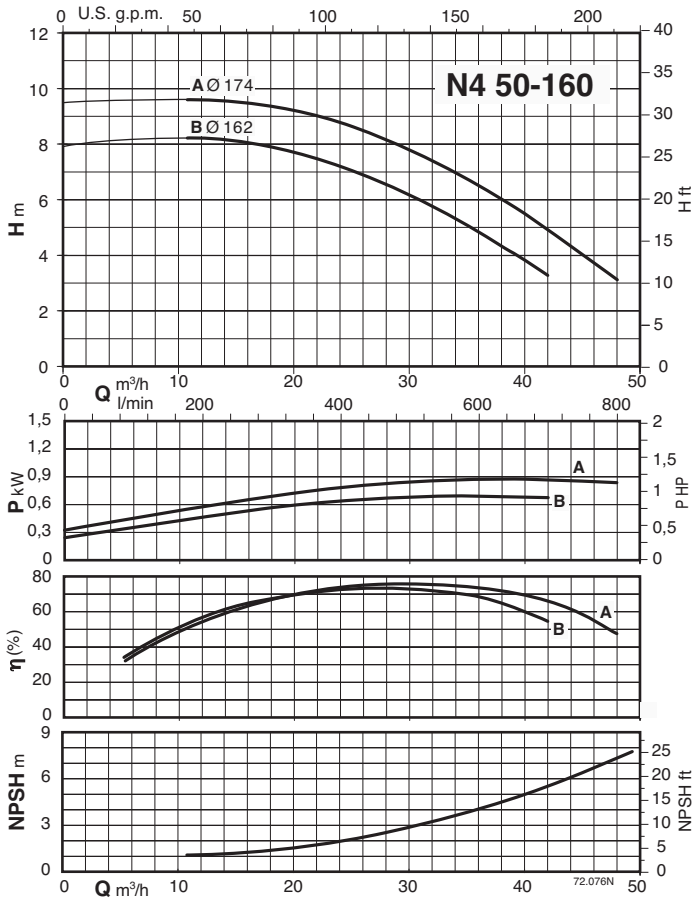
Characteristic curves $n \approx 1450$ rpm



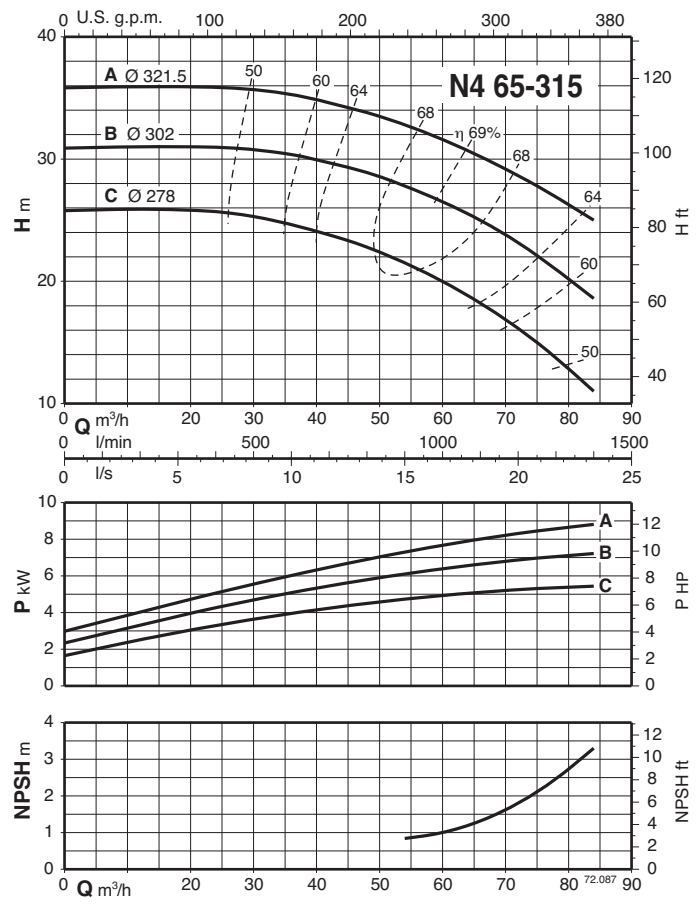
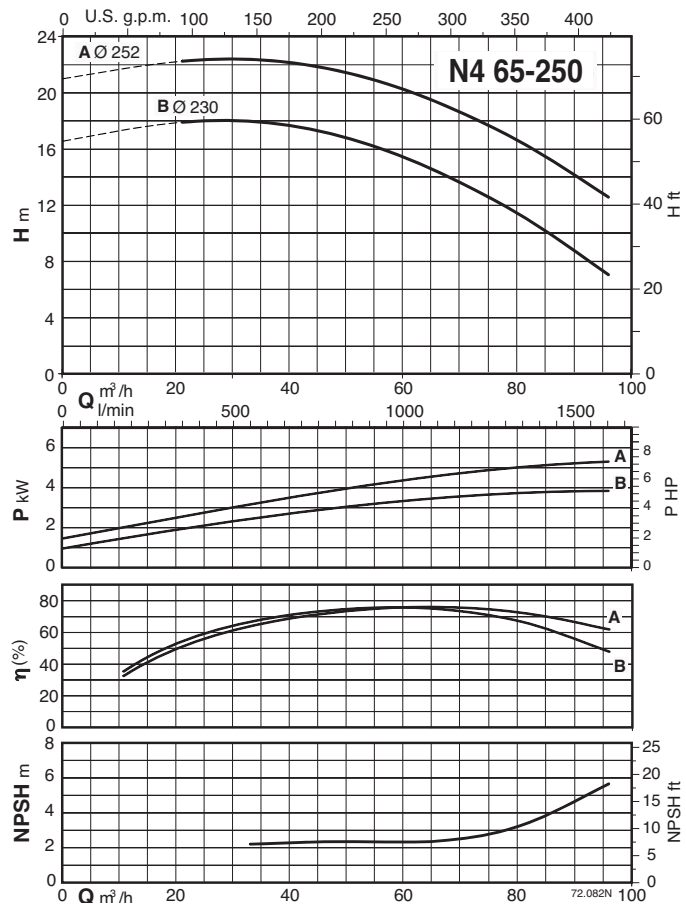
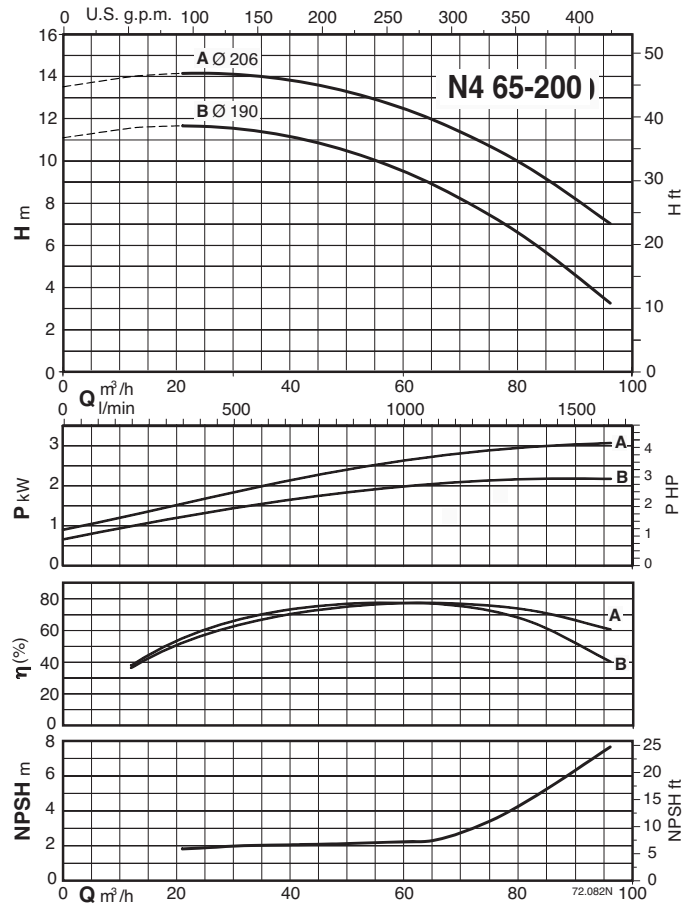
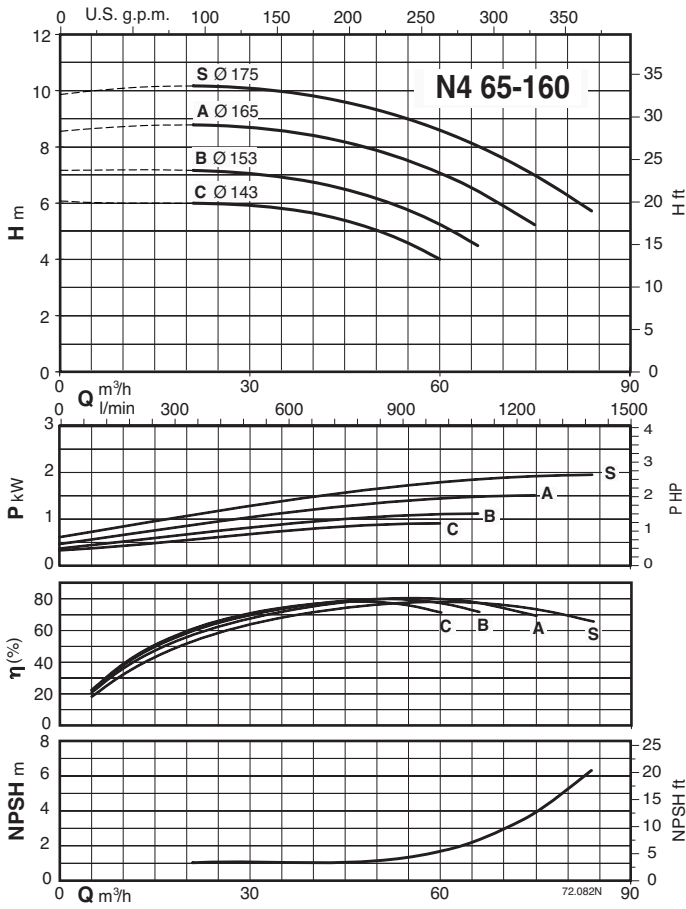
Characteristic curves $n \approx 1450$ rpm



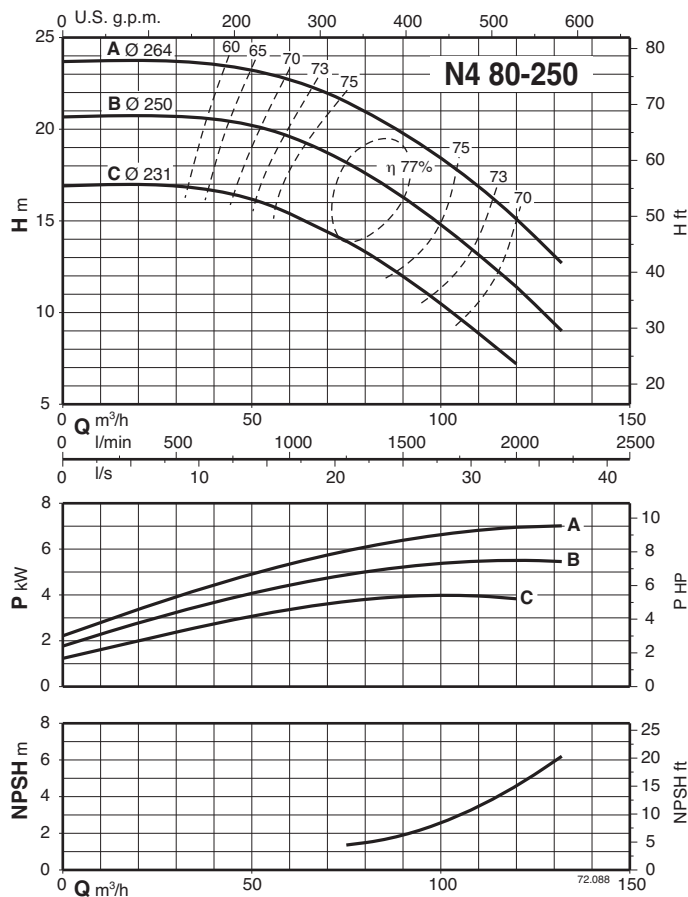
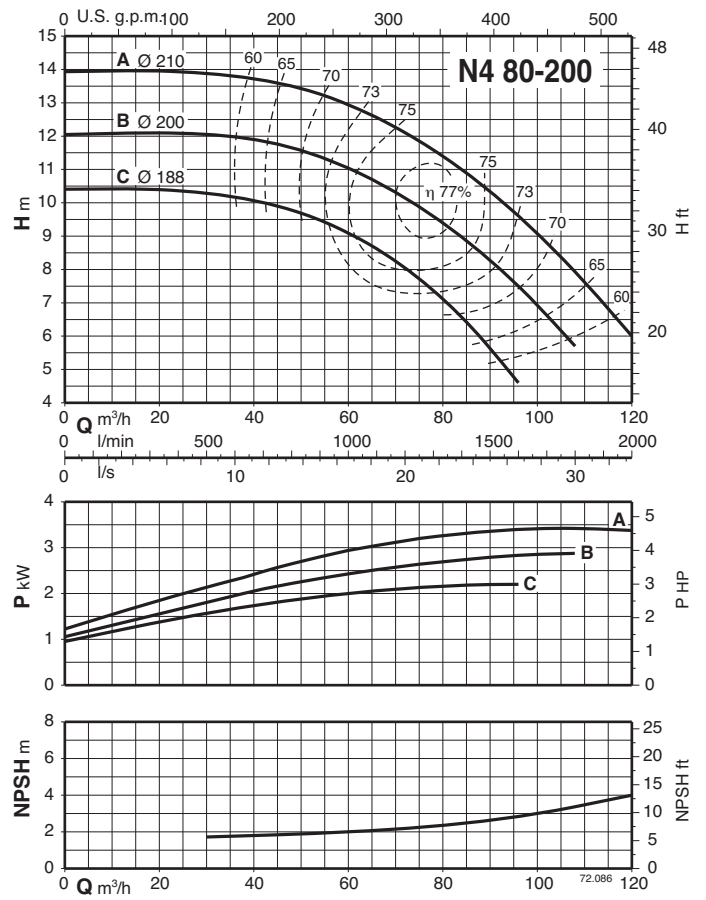
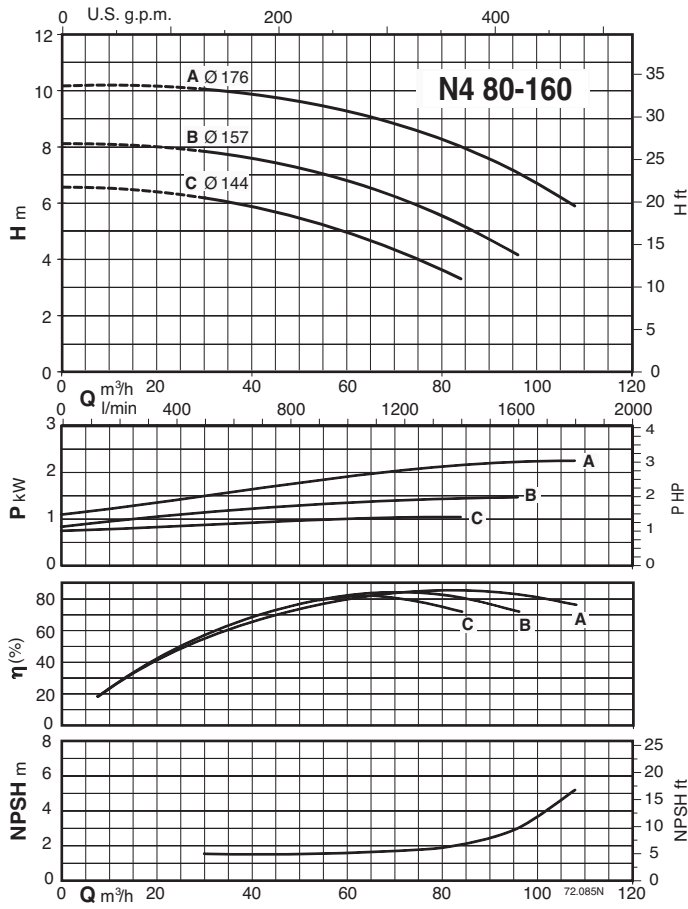
Characteristic curves $n \approx 1450$ rpm



Characteristic curves $n \approx 1450$ rpm



Characteristic curves $n \approx 1450$ rpm



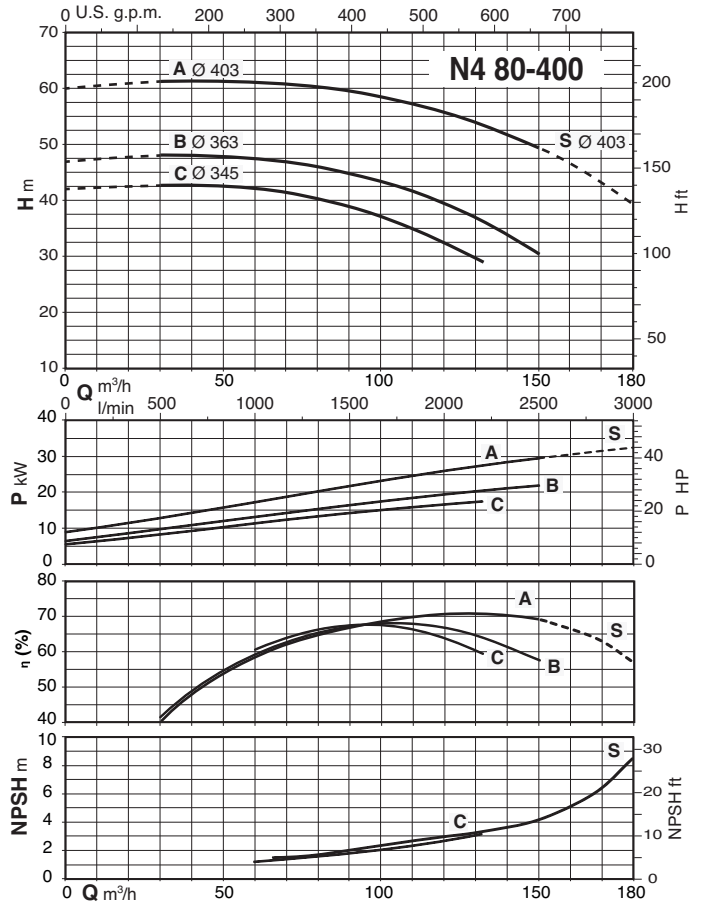
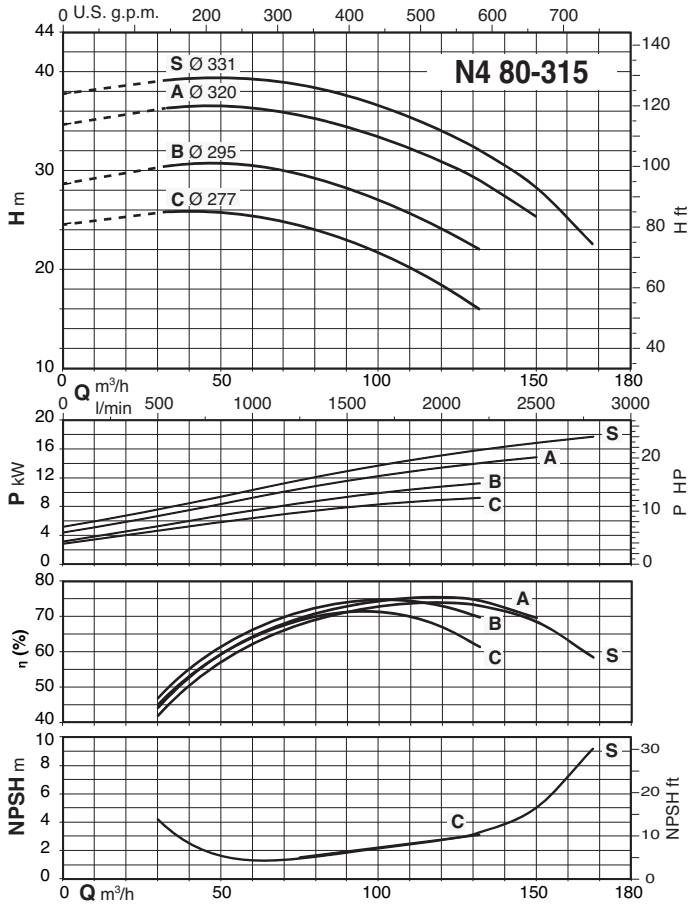
N4

End-Suction Centrifugal Pumps
standardized EN 733

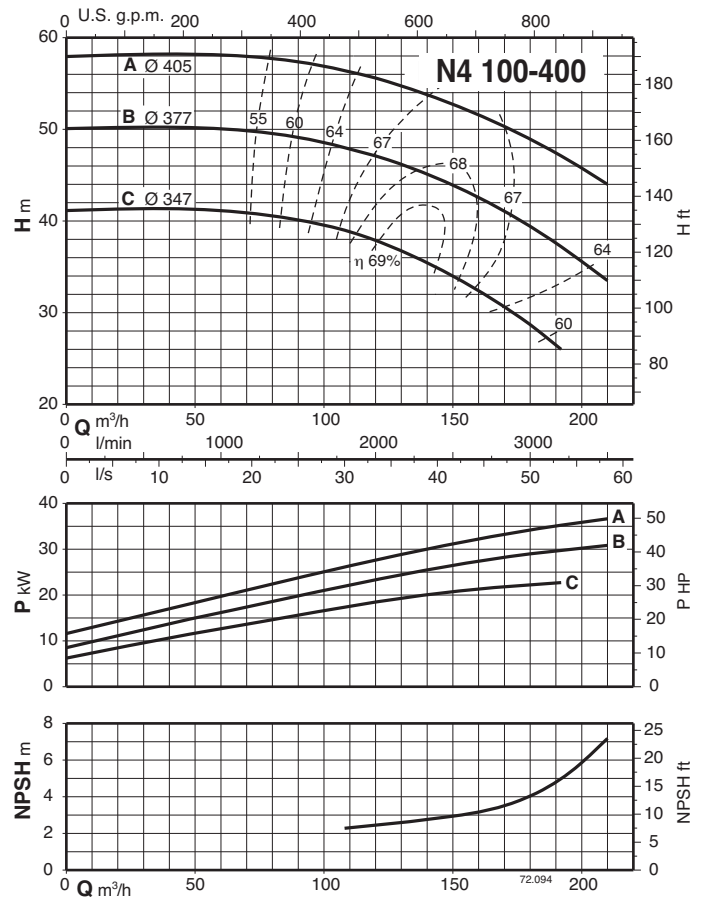
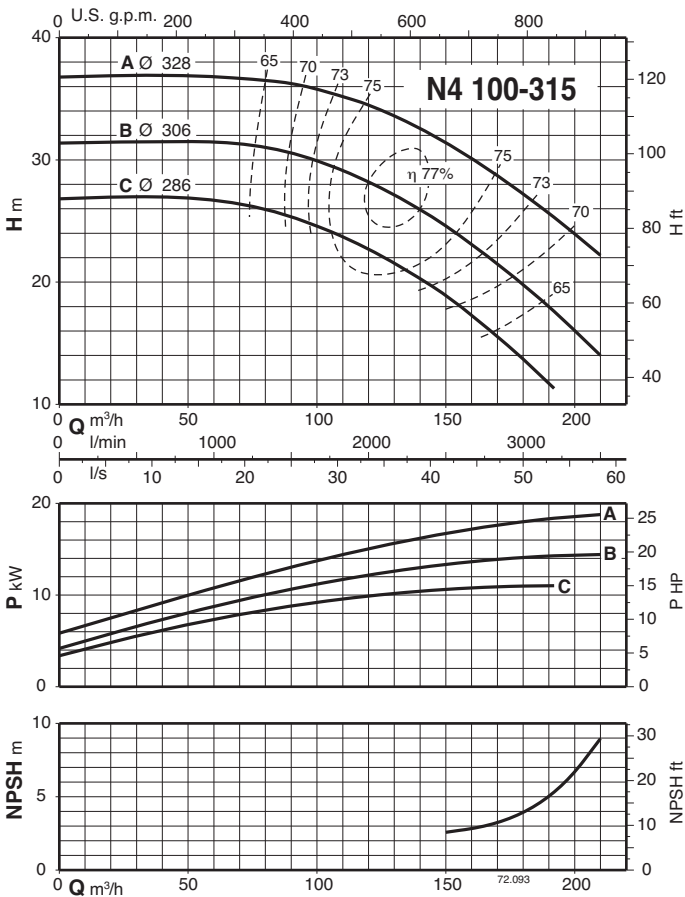
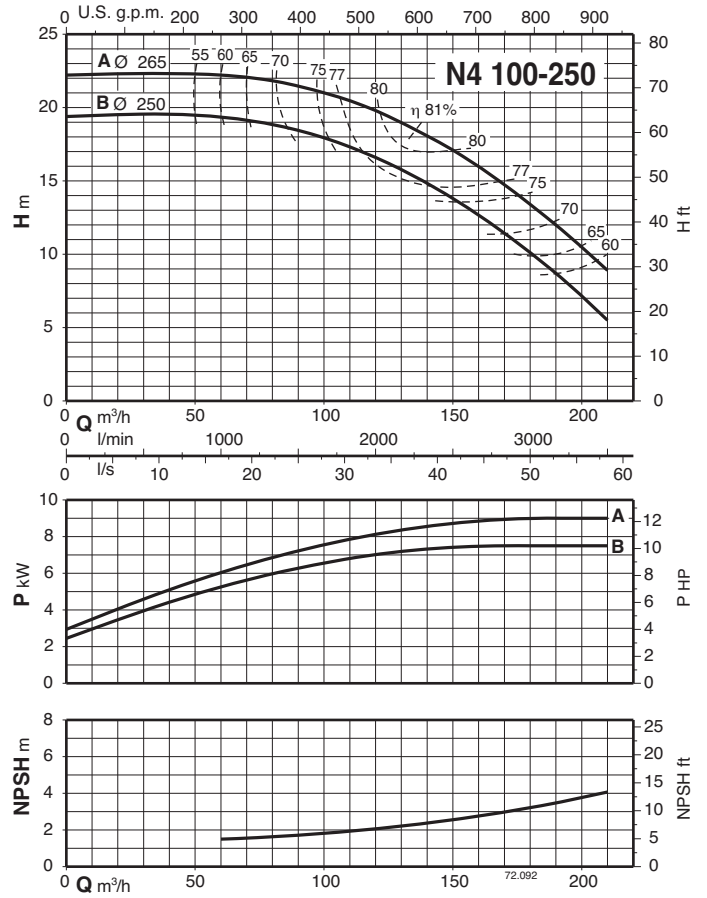
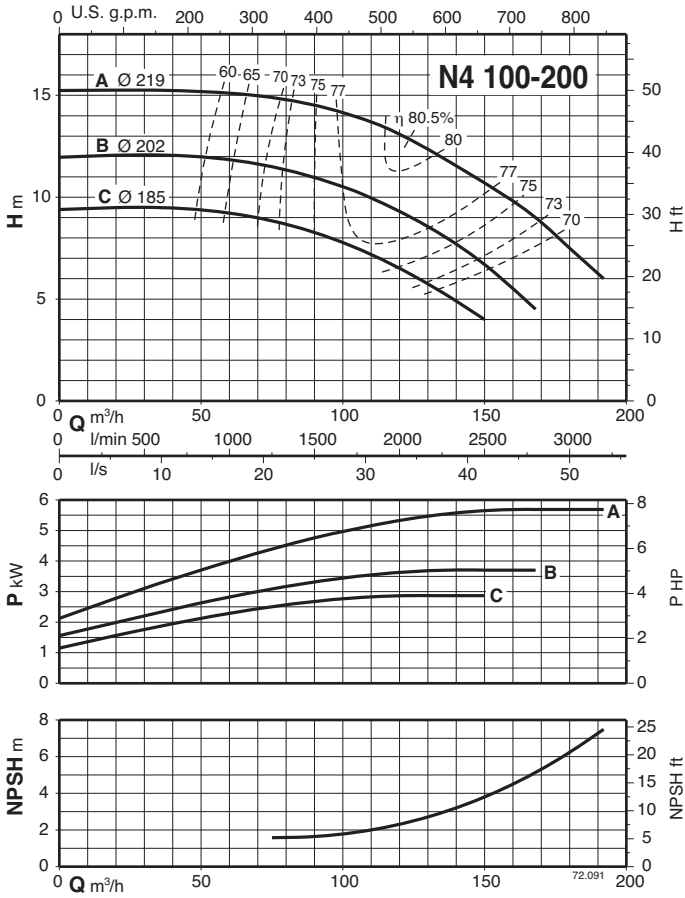
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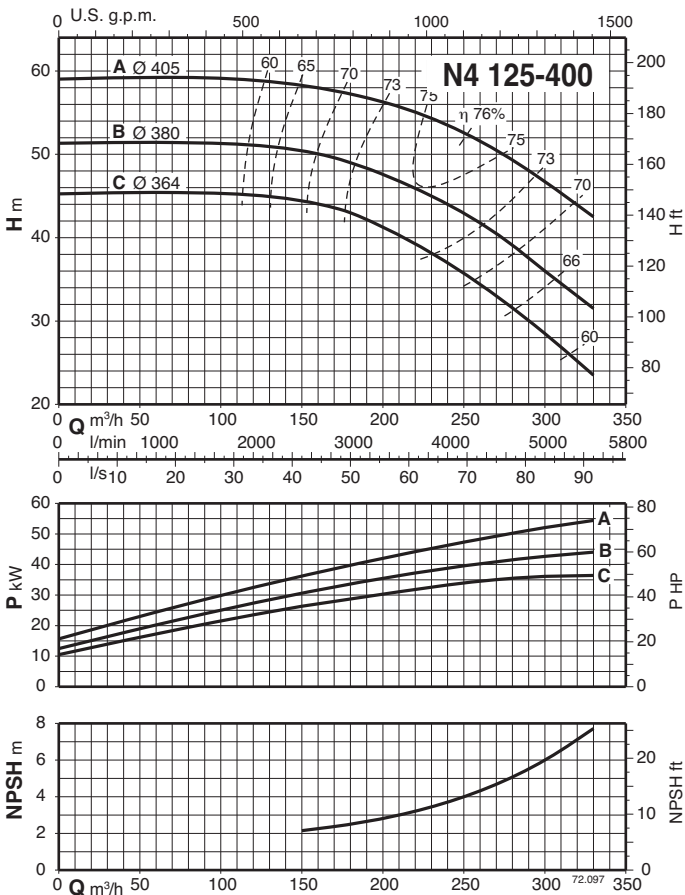
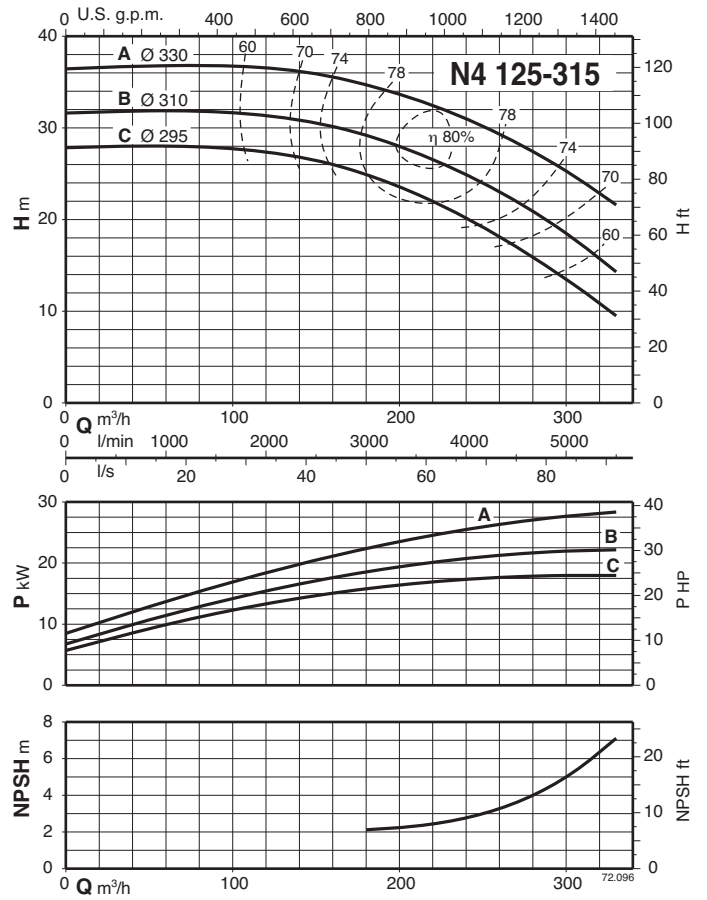
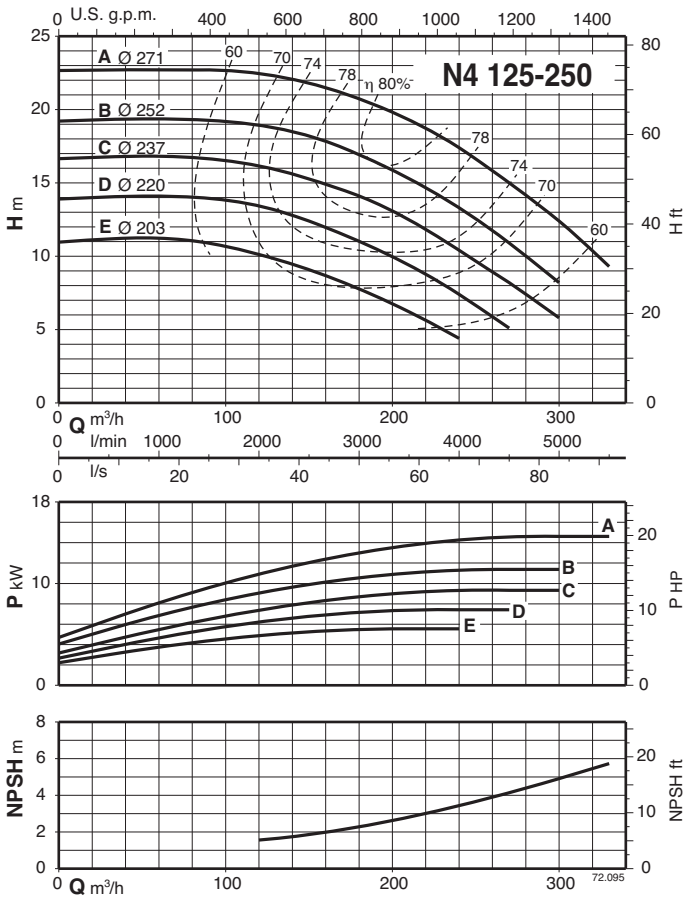
Characteristic curves $n \approx 1450$ rpm



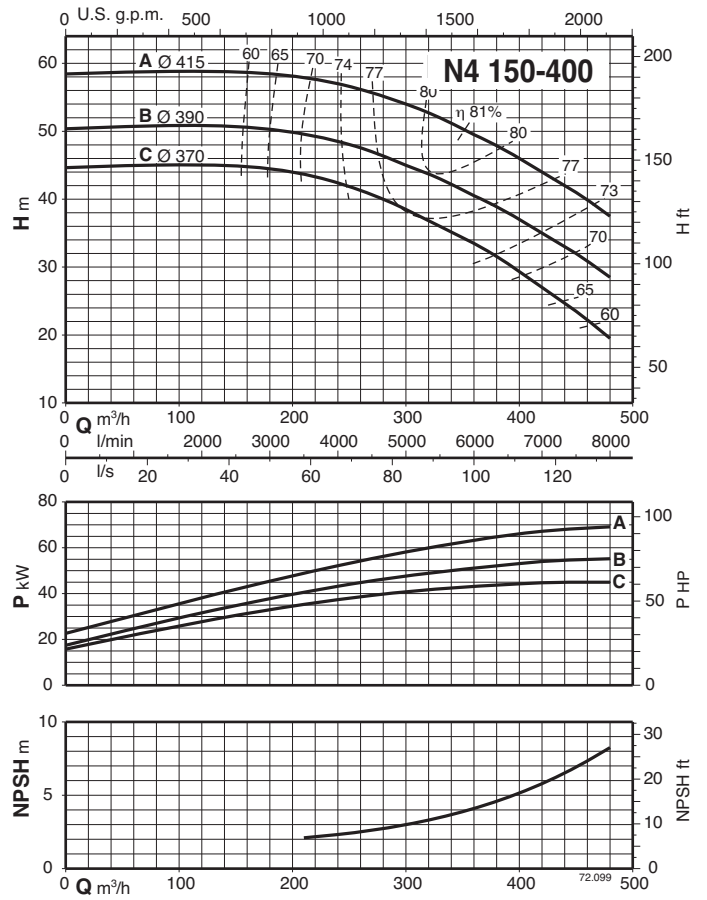
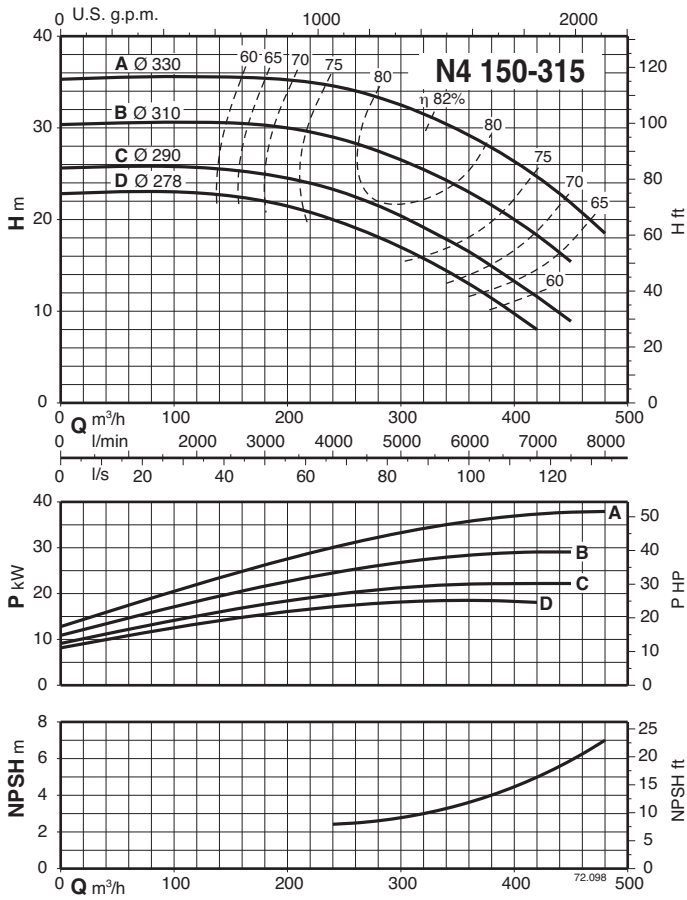
Characteristic curves $n \approx 1450$ rpm



Characteristic curves $n \approx 1450$ rpm



Characteristic curves n ≈ 1450 rpm



Interchangeability of parts

TYPE	Bearing housing			Pump shaft					Ball bearings				Shaft sealing		
	1	2	3	I	II	III	IV	V	6207 Z 6306 Z	6207 Z 3306	6309 Z 3309	6311 Z 3311	Ø 32	Ø 40	Ø 50
N,N4 32-125	x			x					x				x		
N,N4 32-160	x				x				x				x		
N,N4 32-200	x				x				x				x		
N,N4 40-125	x				x				x				x		
N,N4 40-160	x				x				x				x		
N,N4 40-200C	x				x				x				x		
N,N4 40-200A-AR-B	x					x				x			x		
N,N4 40-250	x					x				x			x		
N,N4 50-125	x				x				x				x		
N,N4 50-160	x					x				x			x		
N,N4 50-200	x					x				x			x		
N,N4 50-250	x					x				x			x		
N,N4 65-125E	x				x				x				x		
N,N4 65-125A-C	x					x				x			x		
N,N4 65-160	x					x				x			x		
N,N4 65-200	x					x				x			x		
N,N4 65-250		x					x				x			x	
N4 65-315		x						x				x			x
N,N4 80-160	x					x				x			x		
N,N4 80-200		x					x				x			x	
N,N4 80-250		x						x				x			x
N4 80-315		x							x					x	
N4 80-400			x												x
N,N4 100-200		x						x				x			x
N,N4 100-250		x							x					x	
N4 100-315		x								x					x
N4 100-400			x												x
N4 125-250		x									x				x
N4 125-315			x									x			x
N4 125-400				x									x		x
N4 150-315				x										x	x
N4 150-400					x										x

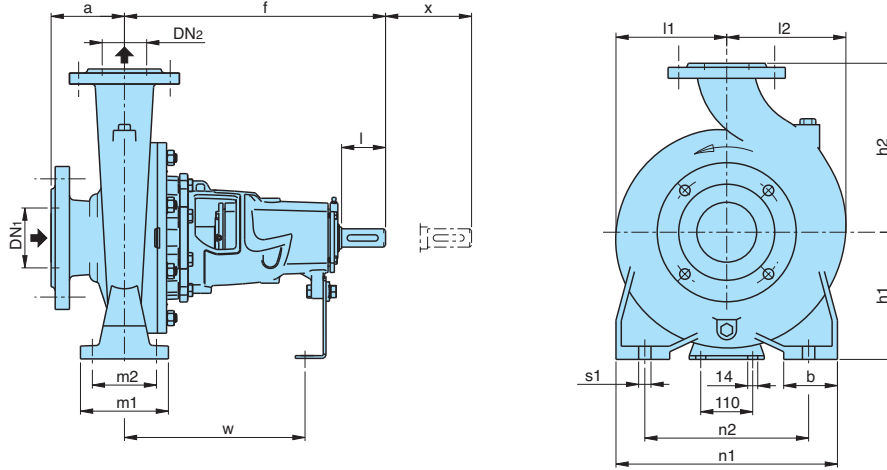
Maximum permissible rotation speed

3600 rpm			3000 rpm			1800 rpm		
32-125	32-160	32-200						
40-125	40-160	40-200			40-250			
50-125	50-160	50-200			50-250			
65-125	65-160				65-250			
		80-200	80-160		65-200	65-315		
		100-200			80-250	80-315	80-400	
					100-250	100-315	100-400	
						125-315	125-400	
						150-315	150-400	

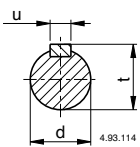
Suction pipe: recommended minimum inside diameter (DN) for different capacities (Q)

Threaded pipe	DN	G 2 G 2 1/2									
		mm	50	65	80	100	125	150	200	250	300
Q max	m³/h	10,5	19	28,8	45	75	108	215	350	508	

Dimensions and weights

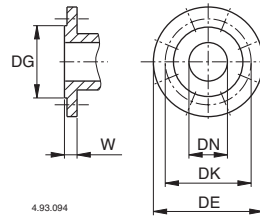


Shaft extension ISO 775 Parallel key UNI 6604



mm			
d	l	u	t
24 j6	50	8	27
32 k6	80	10	35
42 k6	110	12	45

Flanges PN 10, EN 1092-2



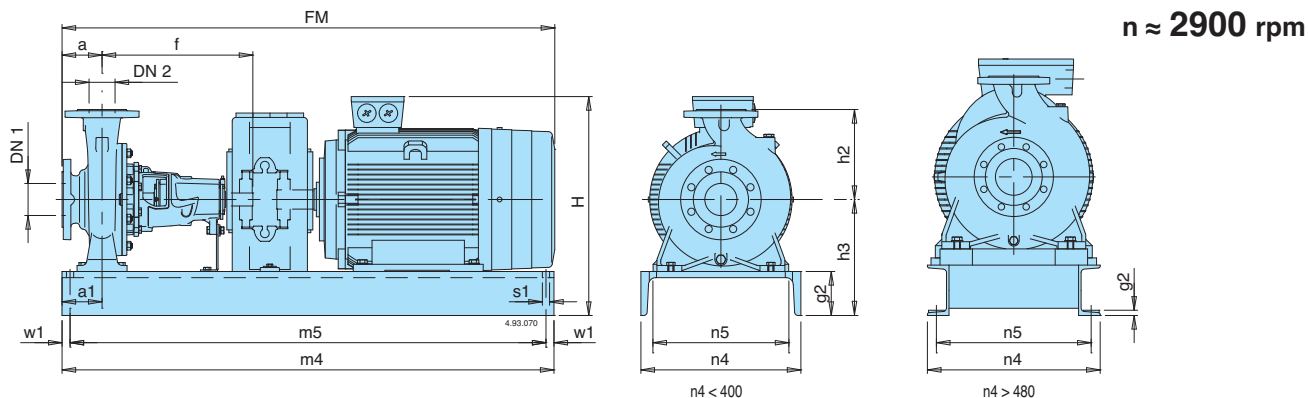
mm						
DN	DG	DK	DE	Holes		W
				N°	Ø	
32	76	100	140	4	19	18
40	84	110	150	4	19	18
50	99	125	165	4	19	20
65	118	145	185	4	19	20
80	132	160	200	8	19	22
100	156	180	220	8	19	24
125	184	210	250	8	19	24
150	211	240	285	8	23	26
200	266	295	340	8	23	30

N n = 2900 1/min
N4 n = 1450 1/min

TYPE	mm																kg		
	DN ₁	DN ₂	a	f	h ₁	h ₂	l ₁	l ₂	m ₁	m ₂	n ₁	n ₂	b	s ₁	d	w	x	B-N	N4
B-N, B-N4 - N, N4 32-125	50	32	80	360	112	140	93	97	100	70	190	140	50	14	24	260	100	30	26,5
B-N, B-N4 - N, N4 32-160					132	160	120	120										37	33
B-N, B-N4 - N, N4 32-200					160	180	140	140										44	38,4
B-N, B-N4 - N, N4 32L-160					132	160	120	120										35,8	33,2
B-N, B-N4 - N, N4 32L-200					160	180	140	140			265	212						43,8	40
B-N, B-N4 - N, N4 40-125	65	40	80	360	112	140	100	113	100	70	210	160	50	14	24	260	100	32	28,4
B-N, B-N4 - N, N4 40-160					132	160	119	119										38	33,6
B-N, B-N4 - N, N4 40-200					160	180	140	140										47,1	40,4
B-N, B-N4 - N, N4 40-250					180	225	175	175										63	55
B-N, B-N4 - N, N4 50-125	65	50	100	360	132	160	121	137	100	70	240	190	50	14	24	260	100	42,4	36,5
B-N, B-N4 - N, N4 50-160					160	180	127	141										45	39,2
B-N, B-N4 - N, N4 50-200					160	180	140	153										54	47
B-N, B-N4 - N, N4 50-250					180	225	175	175										66	57,5
B-N, B-N4 - N, N4 65-125	80	65	100	360	160	180	134	155	125	95	280	212	65	14	24	260	100	48	38,7
B-N, B-N4 - N, N4 65-160					180	200	150	172										50,6	44,5
B-N, B-N4 - N, N4 65-200					180	225	155	175										55,5	50
B-N, B-N4 - N, N4 65-250					200	250	175	190										103	90
B-N4 - N4 65-315			125	470	225	280	220	220	160	120	400	315	80	18	32	340	140	149	130
B-N, B-N4 - N, N4 80-160	100	80	125	470	180	225	165	193	125	95	320	250	65	14	24	260	140	61	53
B-N, B-N4 - N, N4 80-200					180	250	170	194										93	80,5
B-N, B-N4 - N, N4 80-250					200	280	191	210										110	95
B-N4 - N4 80-315					250	315	220	232										154	134
B-N4 - N4 80-400 ¹⁾	125	80	125	530	280	355	268	268	160	120	435	355	80	18	42	370	140	220	192
B-N, B-N4 - N, N4 100-200	125	100	140	470	200	280	180	212	160	120	360	280	80	18	32	340	140	103	89
B-N, B-N4 - N, N4 100-250					225	315	205	233										123	104
B-N4 - N4 100-315					250	315	230	250										158	138
B-N4 - N4 100-400					530	280	355	268										280	230
B-N4 - N4 125-250	150	125	140	530	470	250	235	268	200	150	500	400	100	22	42	370	140	150	129
B-N4 - N4 125-315					280	355	247	278										217	189
B-N4 - N4 125-400					315	400	280	305										255	222
B-N4 - N4 150-315					280	400	260	298										231	201
B-N4 - N4 150-400	200	150	160	530	315	450	295	328	200	150	550	450	100	22	42	370	140	284	247

1) Additional size

Dimensions



TYPE	MOTOR	kW	mm													FM≈	H≈		
			DN1	DN2	a	f	h3	h2	m4	m5	w1	n4	n5	a1	g2			s1	
B-N, N 32-125	71 M2	0,55	50	32	80	360	360	197	140	780	750	15	240	180	90	85	14	718	308
	80 M2	0,75	50	32	80	360	360	197	140	780	750	15	240	180	90	85	14	770	319
	80 M2	1,1	50	32	80	360	360	197	140	780	750	15	240	180	90	85	14	770	319
	90 S2	1,5	50	32	80	360	360	197	140	780	750	15	240	180	90	85	14	825	323
B-N, N 32-160	90 S2	1,5	50	32	80	360	217	160	780	750	15	240	180	90	85	14	825	343	
	90 L2	2,2	50	32	80	360	217	160	780	750	15	240	180	90	85	14	865	343	
	100 L2	3	50	32	80	360	232	160	880	850	15	300	240	90	100	14	920	398	
B-N, N 32-200	90 L2	2,2	50	32	80	360	245	180	780	750	15	240	180	90	85	14	865	371	
	100 L2	3	50	32	80	360	260	180	880	850	15	300	240	90	100	14	920	426	
	112 M2	4	50	32	80	360	260	180	880	850	15	300	240	90	100	14	903	437	
	132 S2	5,5	50	32	80	360	260	180	1020	990	15	350	290	100	100	14	954	462	
B-N, N 32L-160	90 L2	2,2	50	32	80	360	217	160	780	750	15	240	180	90	85	14	865	343	
	100 L2	3	50	32	80	360	232	160	880	850	15	300	240	90	100	14	920	398	
	112 M2	4	50	32	80	360	232	160	880	850	15	300	240	90	100	14	903	409	
B-N, N 32L-200	112 M2	4	50	32	80	360	260	180	880	850	15	300	240	100	100	14	903	437	
	132 S2	5,5	50	32	80	360	260	180	1020	990	15	350	290	100	100	14	953	462	
	132 S2	7,5	50	32	80	360	260	180	1020	990	15	350	290	100	100	14	953	462	
B-N, N 40-125	80 M2	1,1	65	40	80	360	197	140	780	750	15	240	180	90	85	14	770	319	
	90 S2	1,5	65	40	80	360	197	140	780	750	15	240	180	90	85	14	825	323	
	90 L2	2,2	65	40	80	360	197	140	780	750	15	240	180	90	85	14	865	323	
B-N, N 40-160	90 L2	2,2	65	40	80	360	217	160	780	750	15	240	180	90	85	14	865	343	
	100 L2	3	65	40	80	360	232	160	880	850	15	300	240	90	100	14	920	398	
	112 M2	4	65	40	80	360	232	160	880	850	15	300	240	90	100	14	903	409	
	132 S2	5,5	65	40	80	360	232	160	1020	990	15	350	290	90	100	14	953	434	
B-N, N 40-200	112 M2	4	65	40	100	360	260	180	880	850	15	300	240	100	100	14	923	437	
	132 S2	5,5	65	40	100	360	260	180	1020	990	15	350	290	100	100	14	973	462	
	132 S2	7,5	65	40	100	360	260	180	1020	990	15	350	290	100	100	14	973	462	
B-N, N 40-250	160 M2	11	65	40	100	360	280	225	1020	990	15	350	290	100	100	14	1082	517	
	160 M2	15	65	40	100	360	280	225	1020	990	15	350	290	100	100	14	1082	517	
B-N, N 50-125	90 L2	2,2	65	50	100	360	217	160	780	750	15	240	180	90	85	14	865	343	
	100 L2	3	65	50	100	360	232	160	880	850	15	300	240	90	100	14	940	398	
	112 M2	4	65	50	100	360	232	160	880	850	15	300	240	90	100	14	923	409	
	132 S2	5,5	65	50	100	360	232	160	1020	990	15	350	290	90	100	14	973	434	
B-N, N 50-160	132 S2	5,5	65	50	100	360	260	180	1020	990	15	350	290	100	100	14	973	462	
	132 S2	7,5	65	50	100	360	260	180	1020	990	15	350	290	100	100	14	973	462	
	160 M2	11	65	50	100	360	280	200	1020	990	15	350	290	100	100	14	1082	497	
B-N, N 50-200	160 M2	15	65	50	100	360	280	200	1020	990	15	350	290	100	100	14	1082	497	
	160 M2	11	65	50	100	360	280	225	1020	990	15	350	290	100	100	14	1082	517	
B-N, N 50-250	160 M2	15	65	50	100	360	280	225	1020	990	15	350	290	100	100	14	1082	517	
	160 L2	18,5	65	50	100	360	280	225	1020	990	15	350	290	100	100	14	1142	517	
	180 M2	22	65	50	100	360	280	225	1140	1110	15	350	290	100	100	14	1218	566	
	180 M2	22	65	50	100	360	280	225	1140	1110	15	350	290	100	100	14	1218	566	
B-N, N 65-125	112 M2	4	80	65	100	360	260	180	880	850	15	300	240	100	100	14	923	437	
	132 S2	5,5	80	65	100	360	260	180	1020	990	15	350	290	100	100	14	973	462	
	132 S2	7,5	80	65	100	360	260	180	1020	990	15	350	290	100	100	14	973	462	
B-N, N 65-160	132 S2	5,5	80	65	100	360	260	200	1020	990	15	350	290	100	100	14	973	462	
	132 S2	7,5	80	65	100	360	260	200	1020	990	15	350	290	100	100	14	973	462	
	160 M2	11	80	65	100	360	260	200	1020	990	15	350	290	100	100	14	1112	497	
	160 M2	15	80	65	100	360	260	200	1020	990	15	350	290	100	100	14	1082	497	
B-N, N 65-200	160 M2	15	80	65	100	360	280	225	1020	990	15	350	290	100	100	14	1082	517	
	160 L2	18,5	80	65	100	360	280	225	1020	990	15	350	290	100	100	14	1142	517	
	180 M2	22	80	65	100	360	280	225	1140	1110	15	350	290	100	100	14	1218	566	
B-N, N 65-250	180 M2	22	80	65	100	470	310	250	1360	1320	20	400	340	130	110	18	1328	596	
	200 L2	30	80	65	100	470	310	250	1360	1320	20	400	340	130	110	18	1348	625	
	200 L2	37	80	65	100	470	310	250	1360	1320	20	400	340	130	110	18	1348	625	
B-N, N 80-160	132 S2	7,5	100	80	125	360	280	225	1020	990	15	350	290	100	100	14	998	482	
	160 M2	11	100	80	125	360	280	225	1020	990	15	350	290	100	100	14	1107	517	
	160 M2	15	100	80	125	360	280	225	1020	990	15	350	290	100	100	14	1107	517	
	160 L2	18,5	100	80	125	360	280	225	1020	990	15	350	290	100	100	14	1167	517	
B-N, N 80-200	180 M2	22	100	80	125	470	290	250	1230	1190	20	400	340	100	110	18	1353	576	
	200 L2	30	100	80	125	470	310	250	1360	1320	20	400	340	130	110	18	1373	625	
	200 L2	37	100	80	125	470	310	280	1360	1320	20	400	340	130	110	18	1373	625	
B-N, N 80-250	225 M2	45	100	80	125	470	385	280	1250	840	205	480	430	95	16	24	1470	723	
	250 M2	55	100	80	125	470	415	280	1250	840	205	480	430	95	16	24	1509	825	
B-N, N 100-200	160 L2	18,5	125	100	125	470	310	280	1230	1190	20	400	340	130	110	18	1263	547	
	180 M2	22	125	100	125	470	310	280	1360	1320	20	400	340	130	110	18	1353	596	
	200 L2	30	125	100	125	470	310	280	1360	1320	20	400	340	130	110	18	1373	625	
	200 L2	37	125	100	125	470	310	280	1360	1320	20	400	340	130	110	18	1373	625	
B-N,																			

Dimensions

n ≈ 1450 rpm

TYPE	MOTOR	kW	mm															
			DN1	DN2	a	f	h3	h2	m4	m5	w1	n4	n5	a1	g2	s1	fM≈	H ≈
B-N4, N4 32-125	71 M4	0,25	50	32	80	360	197	140	780	750	15	240	180	90	85	14	718	308
	71 M4	0,37	50	32	80	360	217	160	780	750	15	240	180	90	85	14	718	328
B-N4, N4 32-200	80 M4	0,55	50	32	80	360	245	180	780	750	15	240	180	90	85	14	770	367
	80 M4	0,75	50	32	80	360	245	180	780	750	15	240	180	90	85	14	770	367
B-N4, N4 40-125	71 M4	0,25	65	40	80	360	197	140	780	750	15	240	180	90	85	14	718	308
	71 M4	0,37	65	40	80	360	197	140	780	750	15	240	180	90	85	14	718	308
B-N4, N4 40-160	71 M4	0,37	65	40	80	360	217	160	780	750	15	240	180	90	85	14	770	328
	80 M4	0,55	65	40	80	360	217	160	780	750	15	240	180	90	85	14	770	339
	80 M4	0,75	65	40	80	360	217	160	780	750	15	240	180	90	85	14	770	339
B-N4, N4 40-200	90 S4	1,1	65	40	100	360	260	180	880	850	15	300	240	100	100	14	845	386
B-N4, N4 40-250	90 L4	1,5	65	40	100	360	280	225	880	850	15	350	290	100	100	14	885	406
	100 L4	2,2	65	40	100	360	280	225	880	850	15	350	290	100	100	14	929	446
	100 L4	3	65	40	100	360	280	225	880	850	15	350	290	100	100	14	929	446
B-N4, N4 50-125	71 M4	0,37	65	50	100	360	217	160	780	750	15	240	180	90	85	14	738	328
	80 M4	0,55	65	50	100	360	217	160	780	750	15	240	180	90	85	14	790	339
	80 M4	0,75	65	50	100	360	217	160	780	750	15	240	180	90	85	14	790	339
B-N4, N4 50-160	90 S4	1,1	65	50	100	360	260	180	880	850	15	300	240	100	100	14	845	386
B-N4, N4 50-200	90 S4	1,1	65	50	100	360	260	200	880	850	15	300	240	100	100	14	845	386
	90 L4	1,5	65	50	100	360	260	200	880	850	15	300	240	100	100	14	885	386
	100 L4	2,2	65	50	100	360	260	200	880	850	15	300	240	100	100	14	929	426
B-N4, N4 50-250	100 L4	2,2	65	50	100	360	280	225	880	850	15	350	290	100	100	14	929	446
	100 L4	3	65	50	100	360	280	225	880	850	15	350	290	100	100	14	929	446
	112 M4	4	65	50	100	360	280	225	880	850	15	350	290	100	100	14	912	457
B-N4, N4 65-125	80 M4	0,75	80	65	100	360	260	180	880	850	15	300	240	100	100	14	790	382
	90 S4	1,1	80	65	100	360	260	180	880	850	15	300	240	100	100	14	845	386
B-N4, N4 65-160	90 S4	1,1	80	65	100	360	260	200	880	850	15	300	240	100	100	14	845	386
	90 L4	1,5	80	65	100	360	260	200	880	850	15	300	240	100	100	14	885	386
	100 L4	2,2	80	65	100	360	260	200	880	850	15	350	290	100	100	14	929	426
B-N4, N4 65-200	100 L4	2,2	80	65	100	360	280	225	880	850	15	350	290	100	100	14	929	446
	100 L4	3	80	65	100	360	280	225	880	850	15	350	290	100	100	14	929	446
	112 M4	4	80	65	100	470	310	250	1030	990	20	400	340	130	110	18	1022	487
B-N4, N4 65-250	132 S4	5,5	80	65	100	470	310	250	1030	990	20	400	340	130	110	18	1123	512
	132 S4	5,5	80	65	125	470	335	280	1030	990	20	400	340	130	110	18	1148	537
B-N4, N4 65-315	132 M4	7,5	80	65	125	470	335	280	1030	990	20	400	340	130	110	18	1148	537
	160 M4	11	80	65	125	470	335	280	1230	1190	20	400	340	130	110	18	1237	572
	90 S4	1,1	100	80	125	360	280	225	880	850	15	350	290	100	100	14	870	406
B-N4, N4 80-160	90 L4	1,5	100	80	125	360	280	225	880	850	15	350	290	100	100	14	910	406
	100 L4	2,2	100	80	125	360	280	225	880	850	15	350	290	100	100	14	954	446
	100 L4	2,2	100	80	125	470	280	250	1020	990	15	350	290	100	100	14	1064	446
B-N4, N4 80-200	100 L4	3	100	80	125	470	280	250	1020	990	15	350	290	100	100	14	1064	446
	112 M4	4	100	80	125	470	280	250	1020	990	15	350	290	100	100	14	1047	457
	112 M4	4	100	80	125	470	310	280	1030	990	20	400	340	130	110	18	1148	512
B-N4, N4 80-250	132 S4	5,5	100	80	125	470	310	280	1030	990	20	400	340	130	110	18	1148	512
	132 M4	7,5	100	80	125	470	310	280	1030	990	20	400	340	130	110	18	1148	512
	160 M4	11	100	80	125	470	360	315	1230	1190	20	400	340	130	110	18	1237	597
B-N4, N4 80-315	160 L4	15	100	80	125	470	360	315	1230	1190	20	400	340	130	110	18	1297	597
	180 M4	18,5	100	80	125	470	360	315	1360	1320	20	400	340	130	110	18	1301	646
	180 M4	18,5	125	80	125	530	445	355	1250	840	205	480	430	115	16	24	1361	731
B-N4, N4 80-400	180 L4	22	125	80	125	530	445	355	1250	840	205	480	430	115	16	24	1391	760
	200 L4	30	125	80	125	530	445	355	1250	840	205	480	430	115	16	24	1439	760
	225 S4	37	125	80	125	530	445	355	1250	840	205	480	430	115	16	24	1481	783
B-N4, N4 100-200	100 L4	3	125	100	125	470	310	280	1030	990	20	400	340	130	110	18	1064	476
	112 M4	4	125	100	125	470	310	280	1030	990	20	400	340	130	110	18	1047	487
	132 S4	5,5	125	100	125	470	310	280	1030	990	20	400	340	130	110	18	1148	512
B-N4, N4 100-250	132 M4	7,5	125	100	140	470	335	280	1030	990	20	400	340	130	110	18	1163	537
	160 M4	11	125	100	140	470	335	280	1230	1190	20	400	340	130	110	18	1252	572
	160 M4	11	125	100	140	470	360	315	1230	1190	20	400	340	130	110	18	1252	597
B-N4, N4 100-315	160 M4	11	125	100	140	470	360	315	1230	1190	20	400	340	130	110	18	1316	646
	160 L4	15	125	100	140	470	360	315	1230	1190	20	400	340	130	110	18	1312	597
	180 M4	18,5	125	100	140	470	360	315	1360	1320	20	400	340	130	110	18	1316	646
B-N4, N4 100-400	180 L4	22	125	100	140	530	445	355	1250	840	205	480	430	115	16	24	1406	760
	200 L4	30	125	100	140	530	445	355	1250	840	205	480	430	115	16	24	1454	760
	225 S4	37	125	100	140	530	445	355	1250	840	205	480	430	115	16	24	1496	783
B-N4, N4 125-250	132 S4	5,5	150	125	140	470	360	355	1030	990	20	400	340	130	110	18	1163	562
	132 M4	7,5	150	125	140	470	360	355	1030	990	20	400	340	130	110	18	1163	562
	160 M4	11	150	125	140	470	360	355	1230	1190	20	400	340	130	110	18	1252	597
	160 L4	15	150	125	140	470	360	355	1230	1190	20	400	340	130	110	18	1312	597
B-N4, N4 125-315	180 M4	18,5	150	125	140	530	445	355	1250	840								

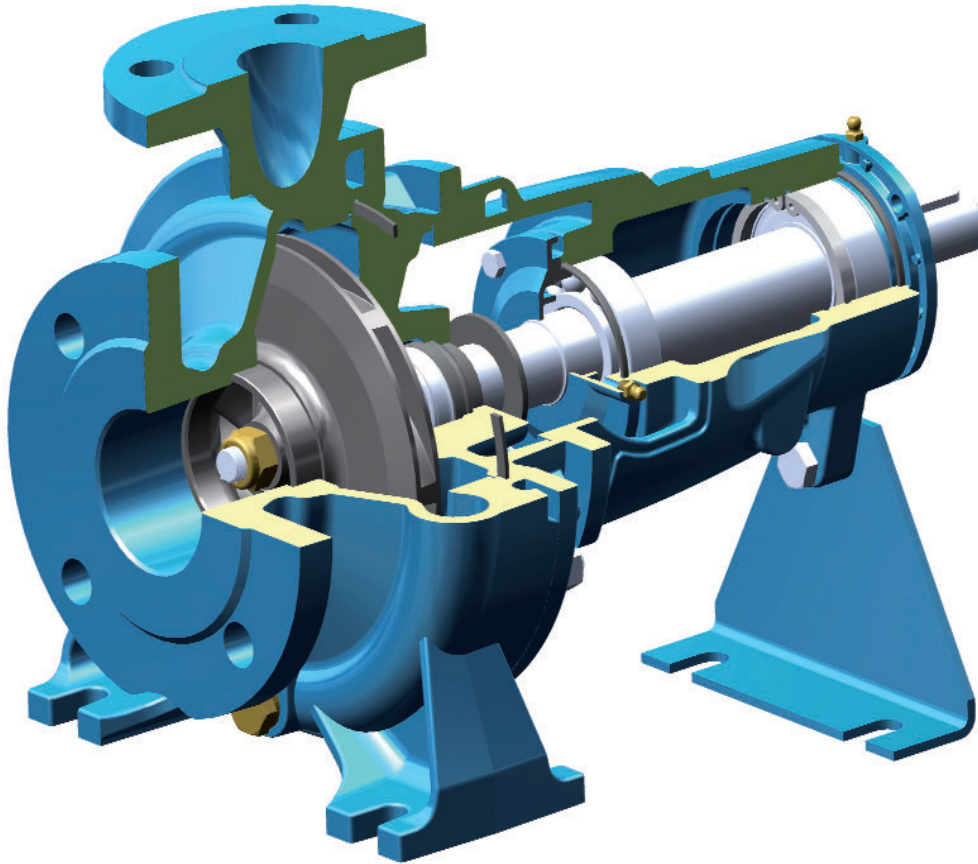
N, N4

End-Suction Centrifugal Pumps
standardized EN 733

FAMCO
هایپر صنعت

calpeda[®]

Features



Cutting edge hydraulics

The geometry of the impeller and the pump casing are optimized to achieve maximum efficiency and the best suction capability.

Flexible

The option to choose between cast iron and bronze materials for the hydraulic parts in contact with the pumped liquid allows N-N4 series pumps to be selected for use with different types of liquids.

Robust

The mechanical structure of the hydraulic parts in contact with the pumped liquid are dimensioned to guarantee the maximum resistance to mechanical stress. Also the casing cover is provided with wings that prevent turbulence in the area of the mechanical seal, increasing the reliability.

Reliable

The bearing and shaft are designed to ensure the reduction of the stress, providing high reliability under all operating conditions.