

N, N4

End-Suction Centrifugal Pumps
standardized EN 733



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

Materials

Components	N, N4	B-N, B-N4	N, N4
Mechanical seal	Mechanical seal	Mechanical seal	Stuffing box
Pump casing	Cast iron	Bronze	Cast iron
Casing cover	GJL 200 EN 1561	CC480K EN 1982	GJL 200 EN 1561
Impeller	Cast iron	Bronze	Cast iron
	GJL 200 EN 1561	CC480K EN 1982	GJL 200 EN 1561
	Brass CW617N EN 12165 For 32-125, 32-160, 32-200, 32L-200, 40-200		
Shaft	Chrome steel 1.4104 EN 10088 (AISI 430)	Cr-Ni-Mo steel 1.4401 EN 10088 (AISI 316)	Carbon steel C 40 UNI 7845
Shaft sleeve	–	–	Bronze CC480K EN 1982 with chromate surface
Mechanical seal	Carbon - Ceramic - NBR		–
Counter-flanges	Steel 1.0044 EN 10025-2 (Fe 430B)		

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 10-16 flanges EN 1092-2 (PN 10 for DN 200).
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 10-16 EN 1092-1 (PN 10 for DN 200)

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 80-160,200,250,315,400; N,N4 100-200).

Maximum permissible rotation speed: see table on page 90.

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

IE3 efficiency class for three-phase motors (IE2 up to 0,65 kW).

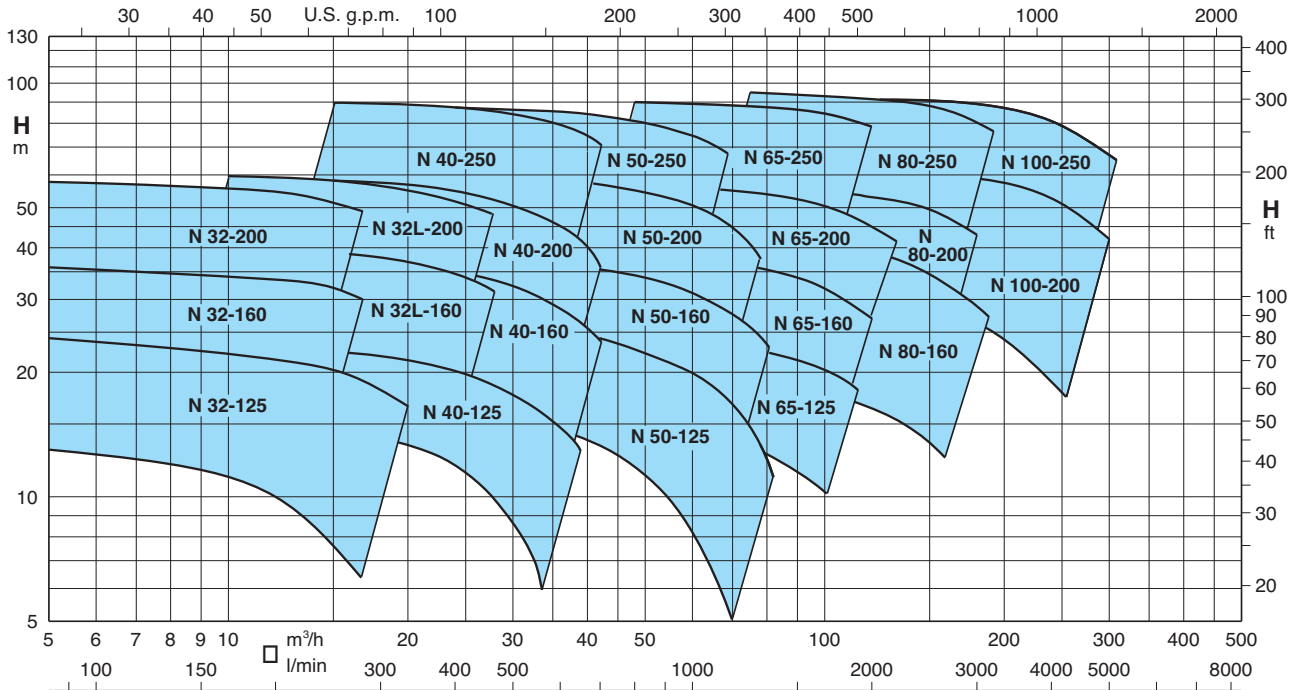
IP 55 protection.

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 $n \approx 2900$ rpm



Tolerances according to UNI EN ISO 9906:2012

Prestazioni $n = 2900$ 1/min

PUMP	PUMP	MOTOR	P ₂ kW	□ m^3/h		P ₃ kW																		
				□ l/min		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		
B-N 32-125F/A	N 32-125F/A	71 M2	0,55	12,5	12,5	12	11,5	11	10,5	9,5	8	6												
B-N 32-125D/A	N 32-125D/A	80 M2	0,75	18	18	17,5	17	16,5	16	15,5	14	12,5	11	8,5										
B-N 32-125A/A	N 32-125A/A	80 M2	1,1	23	23	22,5	22	21,5	21	20,5	19,5	18	16	14	10									
B-N 32-125S/A	N 32-125S/A	90 S2	1,5	23,5	23,5	23	22,5	22	21,5	21	20,5	19	18,5	16,5	13									
B-N 32-160B/A	N 32-160B/A	90 S2	1,5	29,5	29,5	29	28,5	27,5	27	26	25*	22,5*	20*	17,5*	12,5*									
B-N 32-160A/A	N 32-160A/A	90 L2	2,2	35,5	35,5	35	34,5	34	33,5	33	32*	30*	28*	25*	21*	15*								
B-N 32-200D/A	N 32-200D/A	90 L2	2,2	37,5	37	36	35	34	33	32	30	27	22											
B-N 32-200C/A	N 32-200C/A	100 L2	3	44,5	44	43,5	43	42	41	40	38,5	36	32											
B-N 32-200A/A	N 32-200A/A	112 M2	5,5	57	56,5	56	55,5	54,5	53,5	52,5	51	49	46											
B-N 32L-160C	N 32L-160C	90 L2	2,2				25,1	24,9	24,7	24,4	23,8	23	21,8	17,3	13,4									
B-N 32L-160B	N 32L-160B	100 L2	3				30,4	30,3	30,2	30	29,6	29	28,1	26,8	24,2	20,8	17,9							
B-N 32L-160A	N 32L-160A	112 M2	4				39,9	39,9	39,8	39,6	39,3	38,8	37,9	36,8	34,7	31,9	29,7	25,6						
B-N 32L-200C	N 32L-200C	112 M2	4				42,1	41,8	41,5	41	40,2	38,9	37	34,5	29,7	23,8								
B-N 32L-200B	N 32L-200B	132 S2	5,5				51,7	51,6	51,4	51,2	50,7	50	48,8	47	43,2	37,8	33,5							
B-N 32L-200A	N 32L-200A	132 S2	7,5				59,4	59,4	59,4	59,4	59,2	58,8	58	56,5	53,4	48,6	44,6	37,7						

PUMP	PUMP	MOTOR	P ₂ kW	□ m^3/h		P ₃ kW																		
				□ l/min		15	16,8	18,9	21	24	27	30	33	37,8	39	42	45	48	54	60	66	69		
B-N 40-125F/A	N 40-125F/A	80 M2	1,1	14	13,5	13	12	11	9,5	8	6													
B-N 40-125C/A	N 40-125C/A	90 S2	1,5	17,5	17	16,5	16	15	13,5	12	10,5	7,5	6,5											
B-N 40-125A/A	N 40-125A/A	90 L2	2,2	22	22	21,5	21	20	19	18	16,5	14	13	11,5										
B-N 40-160C/A	N 40-160C/A	90 L2	2,2	23	22,5	22	21,5	20	18,5	16,5	14,5	11	10											
B-N 40-160B/A	N 40-160B/A	100 L2	3	29	28,8	28	27,5	26,5	25	23,5	21,5	18	17	14										
B-N 40-160A/A	N 40-160A/A	112 M2	4	37	36,5	36,5	36	35	33,5	32	30,5	27	26	23,5	20	17								
B-N 40-200D/A	N 40-200D/A	112 M2	4	39	38	37	35,5	33,5	30,5	27	22,5	14												
B-N 40-200C/A	N 40-200C/A	112 M2	4	41,5	40,5	39,5	38	36	33,5															
B-N 40-200B/A	N 40-200B/A	132 S2	5,5	50	49,5	48,5	47,5	45,5	43,5	41,5	37,5	30,5												
B-N 40-200A/A	N 40-200A/A	132 S2	7,5	55	54,5	54	53	51	49															
B-N 40-250C/A	N 40-250C/A	160 M2	11	61	61	60,5	59,5	58,5	56,5	53,5	49,5	41,5	40,5	35,5										
B-N 40-250B/A	N 40-250B/A	160 M2	11	69,5	69,5	69	68,5	67	65,5	63,5	60,5	53,5	51	45										
B-N 40-250A/A	N 40-250A/A	160 M2	15	90	90	89,5	89	88,5	87	85	83	77,5	76	70,5										

N Standard construction.
B-N Bronze construction.

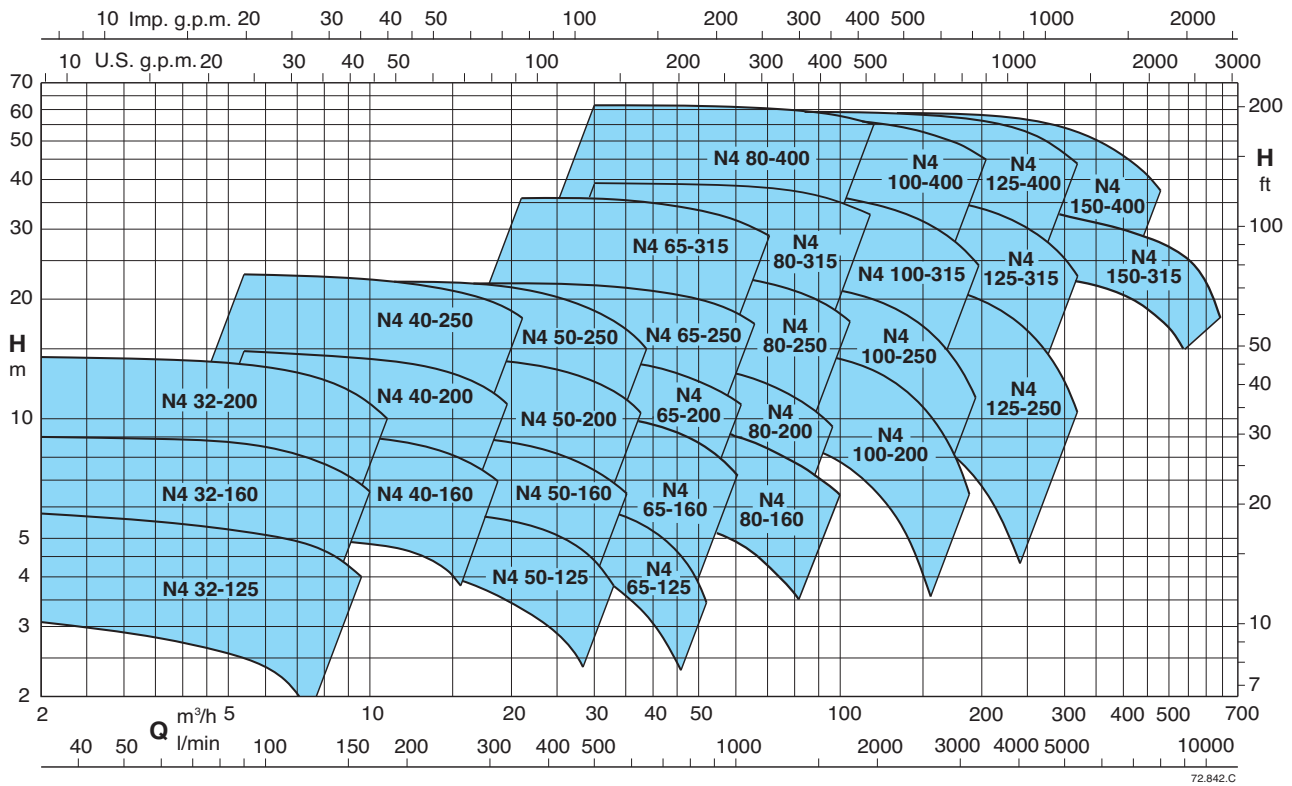
P₂ Rated motor power output.

P₃ Pump power input.

H Total head in m.

* Maximum suction lift 1-2 m.

Coverage chart $n \approx 1450$ rpm



Tolerances according to UNI EN ISO 9906:2012

Performance $n \approx 1450$ rpm

PUMP	PUMP	MOTOR	P ₂ kW	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	0,07	0,075	0,08	0,09	0,095	0,1	0,1	0,105	0,11	0,115	0,115					
B-N4 32-125D/A	N4 32-125D/A	71 M4	0,25	0,095	0,075	0,11	0,115	0,125	0,13	0,135	0,145	0,15	0,155	0,165	0,17				
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															
				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	6,17	6,18	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

Table with 16 columns for flow (Q) and 16 columns for head (H). Includes sub-headers for Pump (B-N4, N4), Motor, and Power (P2 kW, P3 kW).

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Table with 16 columns for flow (Q) and 16 columns for head (H). Includes sub-headers for Pump (B-N4, N4), Motor, and Power (P2 kW, P3 kW).

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.

Performance n ≈ 1450 rpm

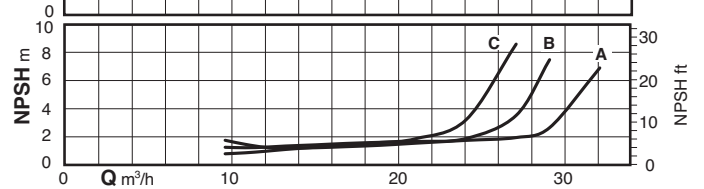
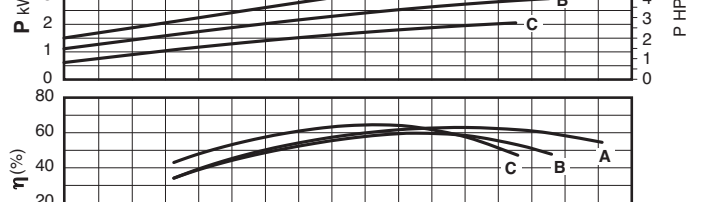
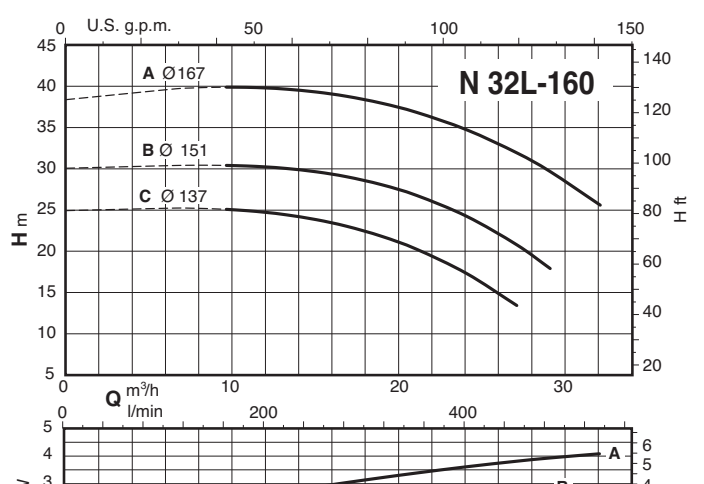
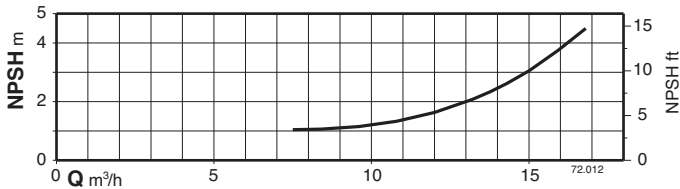
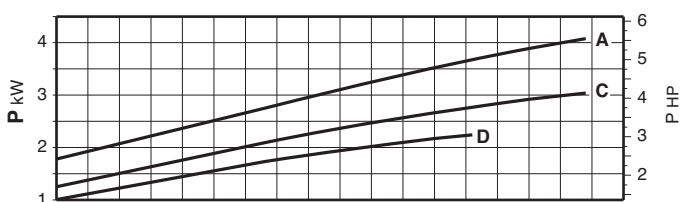
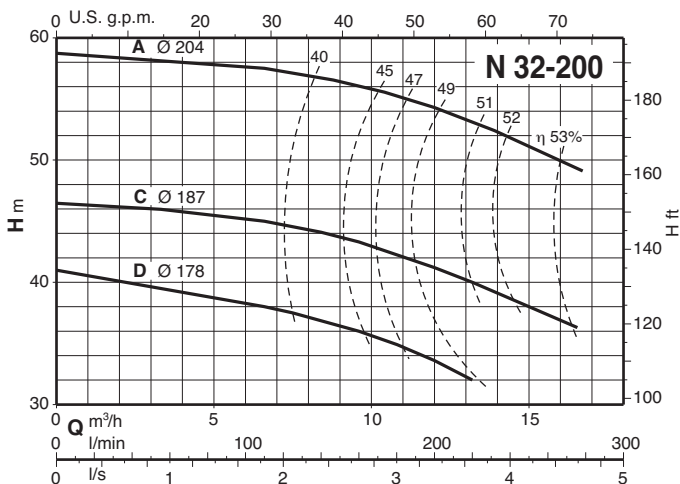
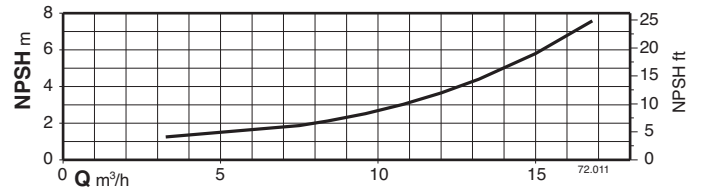
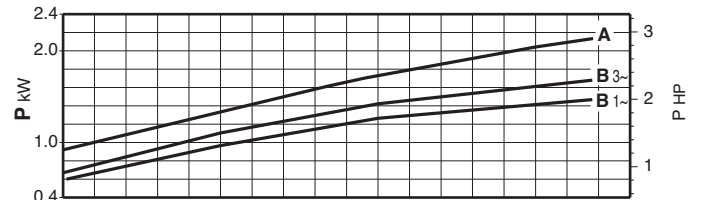
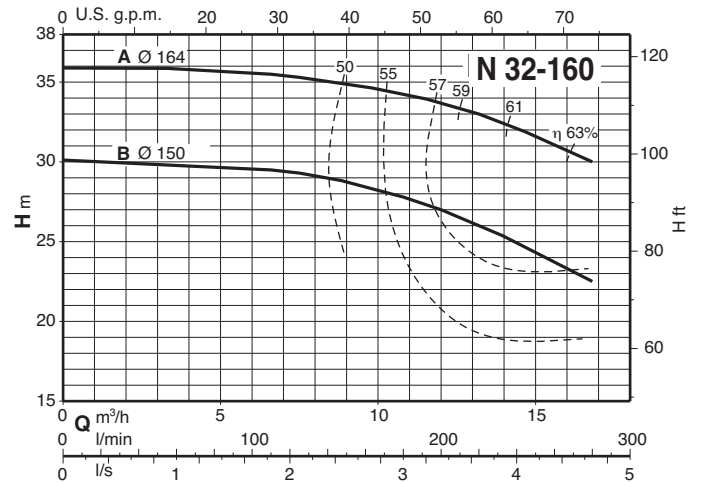
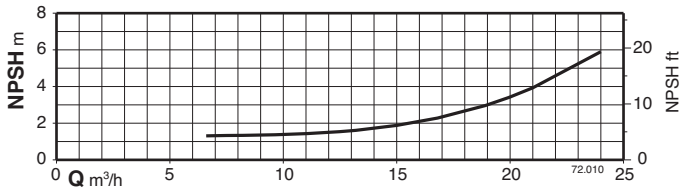
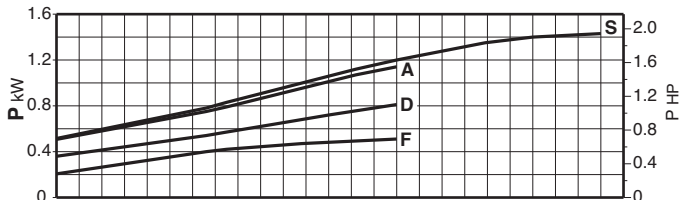
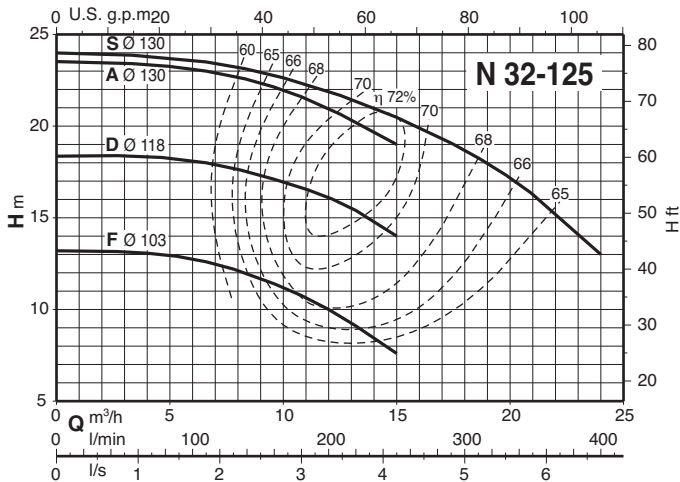
PUMP B-N4	PUMP N4	MOTOR	P ₂ kW	H m																
				□ m³/h	48	54	60	66	75	84	96	108	120	132	150	168	180	192	210	
B-N4 100-200C/A	N4 100-200C/A	100 L4	3	□ l/min	800	900	1000	1100	1250	1400	1600	1800	2000	2200	2500	2800	3000	3200	3500	
B-N4 100-200B/A	N4 100-200B/A	112 M4	4	9,4 2,1	9,3 2,2	9,2 2,3	9,1 2,4	8,9 2,5	8,5 2,6	8 2,7	7,3 2,8	6,5 2,85	5,6 2,9	4 2,85						
B-N4 100-200A/A	N4 100-200A/A	132 S4	5,5	12 2,65	11,9 2,8	11,8 2,95	11,7 3,1	11,5 3,3	11,2 3,45	10,7 3,65	10 3,85	9,3 3,95	8,4 4	6,7 3,95	4,5 3,8					
B-N4 100-250B/A	N4 100-250B/A	132 M4	7,5	15,2 3,65	15,2 3,85	15,1 4	15 4,15	14,9 4,4	14,7 4,6	14,3 4,85	13,8 5,1	13,1 5,3	12,2 5,45	10,7 5,55	9 5,65	7,5* 5,85	6* 5,55			
B-N4 100-250A/A	N4 100-250A/A	160 M4	11	19,5 4,8	19,5 5	19,4 5,2	19,3 5,4	19 5,75	18,7 6,05	18,2 6,4	17,5 6,7	16,6 7	15,6 7,3	13,8 7,5	11,7 7,5	10 7,45	8,4 7,35	5,5 7,15		
B-N4 100-315C/A	N4 100-315C/A	160 M4	11	22,3 5,5	22,3 5,8	22,2 6,05	22,1 6,25	21,9 6,6	21,7 6,95	21,2 7,35	20,5 7,75	19,8 8,1	18,8 8,35	17,1 8,7	15 9	13,4 9,05	11,7 9	8,9 8,9		
B-N4 100-315B/A	N4 100-315B/A	160 L4	15	26,9 6,6	26,9 7	26,8 7,35	26,6 7,65	26,2 8,1	25,7 8,5	24,9 9	23,8 9,5	22,7 9,85	21,3 10,2	18,9 10,7	15,9 10,9	13,7 11	11,3* 11			
B-N4 100-315A/A	N4 100-315A/A	180 L4	18,5	31,5 7,8	31,5 8,25	31,4 8,65	31,3 9	31,2 9,6	30,8 10,2	30,2 10,9	29,3 11,5	28,2 12,1	26,9 12,6	24,6 13,3	21,8 13,9	19,8 14,1	17,6* 14,4	14,4* 14,4		
B-N4 100-400C/A	N4 100-400C/A	180 L4	22	36,9 9,7	36,9 10,2	36,8 10,7	36,7 11,2	36,6 11,9	36,4 12,5	36 13,3	35,3 14,1	34,5 14,9	33,4 15,6	31,4 16,6	29 17,4	27,2 17,9	25,3* 18,3	22,2* 18,75		
B-N4 100-400B/A	N4 100-400B/A	200 L4	30	41,3 11,1	41,2 11,8	41,1 12,5	41 13,2	40,7 14	40,4 14,8	39,8 16	39 17	38 18	36,5 18,9	34 20	31 21	28,7 21,7	26 22			
B-N4 100-400A/A	N4 100-400A/A	225 S4	37	50,2 17,8	50,1 18	50 18,8	49,9 19,4	49,7 18,4	49,4 19,3	48,8 20,6	48 21,8	47,1 23	46 24,2	44 25,7	41,3 27	39,5 27,8	37 28,5	33,5* 29,4	33,5* 29,4	

PUMP B-N4	PUMP N4	MOTOR	P ₂ kW	H m																
				□ m³/h	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	□ l/min	1400	1600	1800	2000	2200	2500	2800	3000	3200	3500	4000	4500	5000	5500		
B-N4 125-250D/A	N4 125-250D/A	132 M4	7,5	11 4,2	10,8 4,5	10,5 4,75	10,1 4,95	9,7 5,05	9,1 5,2	8,3 5,35	7,8 5,45	7,2 5,5	6,2 5,5	4,4 5,35						
B-N4 125-250C/A	N4 125-250C/A	160 M4	11	14 5,4	13,9 5,7	13,7 5,95	13,4 6,2	13 6,45	12,4 6,75	11,6 7	11 7,2	10,4 7,5	9,4 7,35	7,4 7,1	5,1					
B-N4 125-250B/A	N4 125-250B/A	160 M4	11	16,7 6,3	16,6 6,7	16,4 7,1	16,2 7,4	15,9 7,65	15,4 8,05	14,6 8,4	14,1 8,6	13,5 8,75	12,5 9	10,4 9,2	8,2 9,2	5,8 9,05				
B-N4 125-250A/A	N4 125-250A/A	160 L4	15	19,3 7,8	19,2 8,25	19,1 8,7	18,9 9,1	18,7 9,45	18,2 10	17,5 10,35	17 10,6	16,3 10,85	15,3 11,1	13,3 11,4	10,9 11,45	8,2 11,3				
B-N4 125-315C/A	N4 125-315C/A	180 M4	18,5	22,7 9,2	22,7 9,75	22,6 10,3	22,4 10,85	22,2 11,3	21,8 12	21,2 12,6	20,8 12,95	20,1 13,25	19,33 13,75	17,4 14,3	15 14,5	12,4 14,55	9,3 14,4			
B-N4 125-315B/A	N4 125-315B/A	180 L4	22	27,9 11,5	27,8 12,15	27,7 12,8	27,6 13,4	27,2 14	26,5 14,7	25,6 15,4	24,9 15,8	24,2 16,2	22,8 16,7	20,2 17,3	17 17,7	13,5 18	9,5* 18			
B-N4 125-315A/A	N4 125-315A/A	200 L4	30	31,8 12,75	31,7 13,6	31,6 14,45	31,5 15,3	31,1 15,9	30,6 16,8	29,7 17,7	29,1 18,4	28,5 19	27,3 19,7	24,9 20,6	22 21,4	18,5 22	14,3* 22,1			
B-N4 125-400C/A	N4 125-400C/A	225 S4	37	36,8 15,5	36,8 16,5	36,7 17,5	36,6 18,3	36,4 19,1	35,9 20,4	35,2 21,6	34,7 22,4	34,2 23,1	33,2 24,15	31 25,6	28,4 26,6	25,3 27,6	21,6* 28,45	21,6* 28,45		
B-N4 125-400B/A	N4 125-400B/A	225 M4	45	45,4 19,4	45,3 20,7	45,2 22	45,1 23,3	44,9 24,6	44,4 26,5	43,7 28,2	43 29,3	42 30,2	40 31,4	37 33,4	33 35	28,5* 35,9	23,5* 36,75			
B-N4 125-400A/A	N4 125-400A/A	250 M4	55	51,4 22,9	51,3 24,3	51,2 25,7	51,1 27,1	50,9 28,4	50,4 30,35	49,7 32,2	49 33,3	48,2 34,4	46,8 36	44 38,5	40,5 41	36* 43	31,5* 44,5			

PUMP B-N4	PUMP N4	MOTOR	P ₂ kW	H m																		
				□ m³/h	132	150	168	180	192	210	240	270	300	330	360	390	420	450	480	540	600	660
B-N4 150-315B/B	N4 150-315B/B	200 L4	30	□ l/min	2200	2500	2800	3000	3200	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	9000	10000	11000
B-N4 150-315A/B	N4 150-315A/B	225 S4	37	25,3 19,4	25,2 20,0	25,1 20,6	25,0 21,0	24,9 21,4	24,7 22,0	24,3 22,9	23,8 23,9	23,2 24,9	22,5 25,9	21,6 26,8	20,7 27,7	19,8 28,5	18,7 29,0	17,6 29,4	15,1 29,7			
B-N4 150-315S	N4 150-315S	225 M4	45	29,5 22,3	29,5 23,1	29,5 23,9	29,4 24,4	29,3 25,0	29,3 25,8	29,0 27,2	28,6 28,5	28,1 29,8	27,4 31,0	26,7 32,2	25,9 33,3	24,9 34,3	23,8 35,1	22,6 35,8	19,9 36,8	16,7 37,0		
B-N4 150-400C/A	N4 150-400C/A	225 M4	45	34,9 26,3	34,9 27,4	34,9 28,4	34,9 29,1	34,8 29,8	34,7 30,8	34,5 32,4	34,1 34,0	33,6 35,6	33,0 37,1	32,2 38,6	31,4 40,0	30,4 41,3	29,4 42,5	28,2 43,6	25,5 45,1	22,3 45,7	18,7 45,8	
B-N4 150-400B/A	N4 150-400B/A	250 M4	55	45 31,4	44,9 33,6	44,7 35,8	44,5 36,9	44 38,2	43,5 40	42,5 42,8	40,5 45,5	38,5 47,7	36 49,8	33,5 51,5	30,5 54,1	27* 57,5	23,5* 60,5	19,5* 64	15,5* 68,4			
B-N4 150-400A/A	N4 150-400A/A	280 S4	75	50,8 38,2	50,7 40,7	50,5 42,6	50,3 44,35	50 45,7	49,5 48	48,5 51,5	47 54,4	45 57,1	43 59,7	40,5 62	38 64,2	35* 66	32* 67,5	28,5* 68,4	25,5* 71,5	22,3* 74,5	18,7* 77,5	

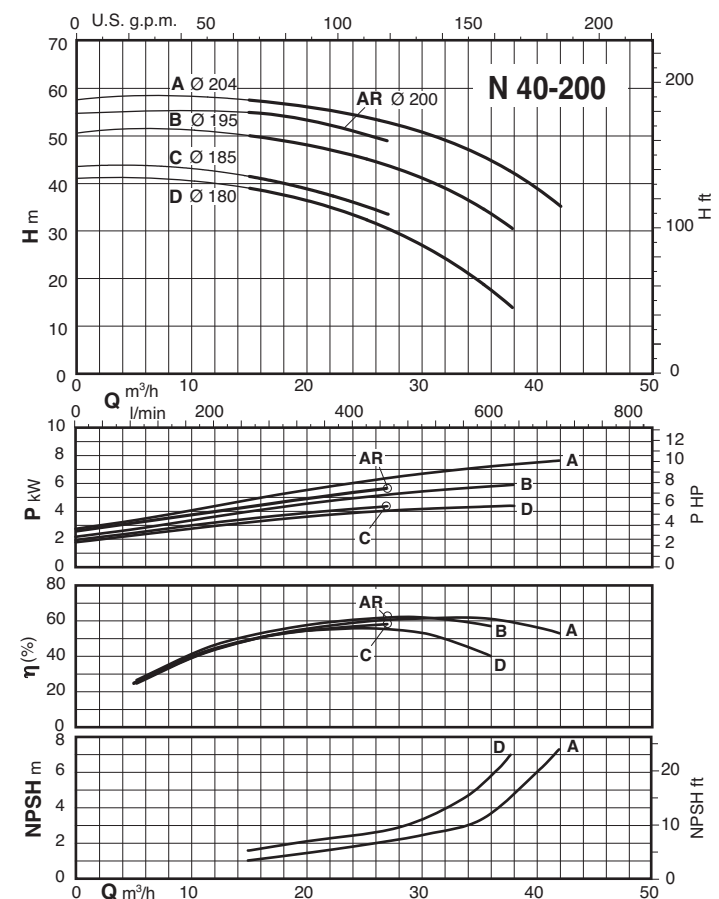
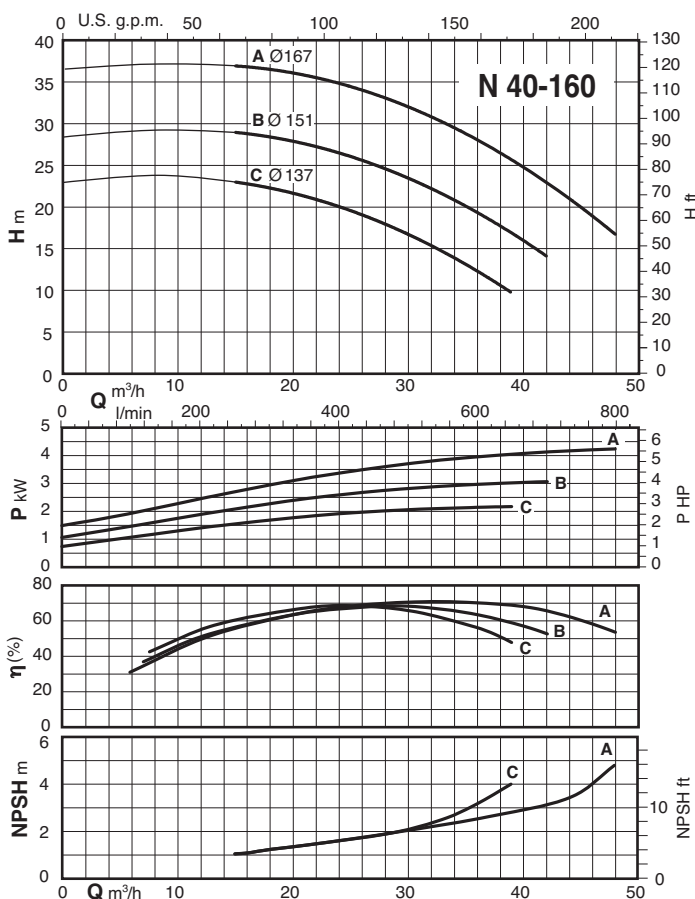
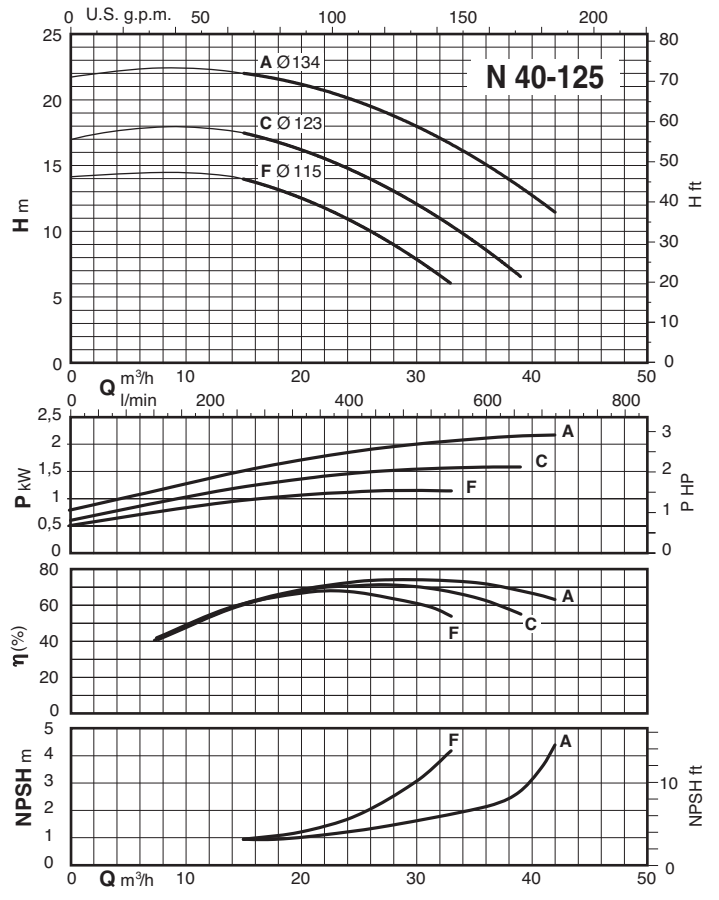
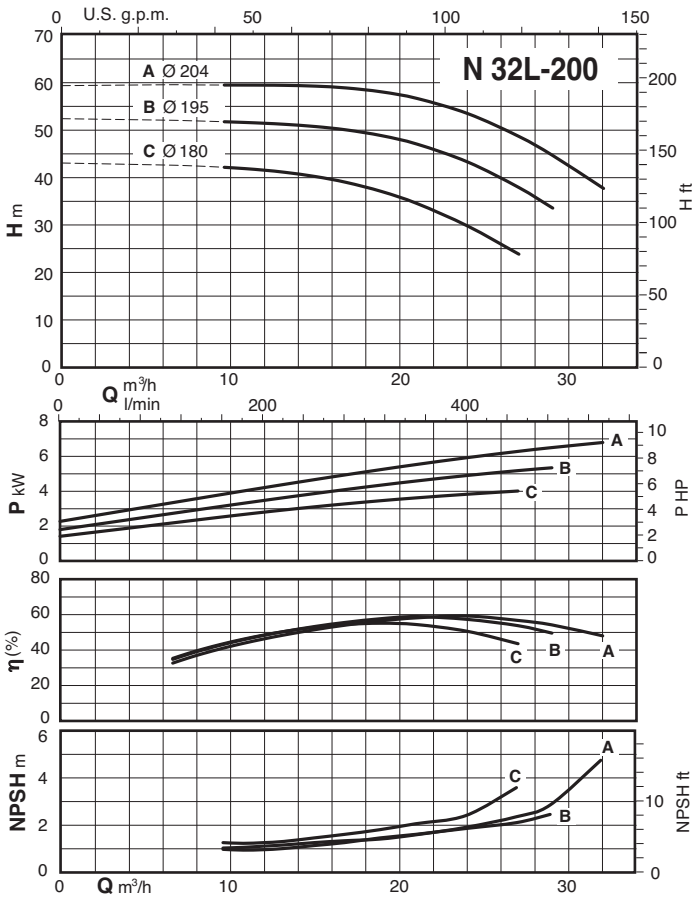
N4 Standard construction. **P₂** Rated motor power output. **H** Total head in m. ***** Maximum suction lift 1-2 m.
B-N4 Bronze construction. **P₃** Pump power input.

Characteristic curves $n \approx 2900$ rpm



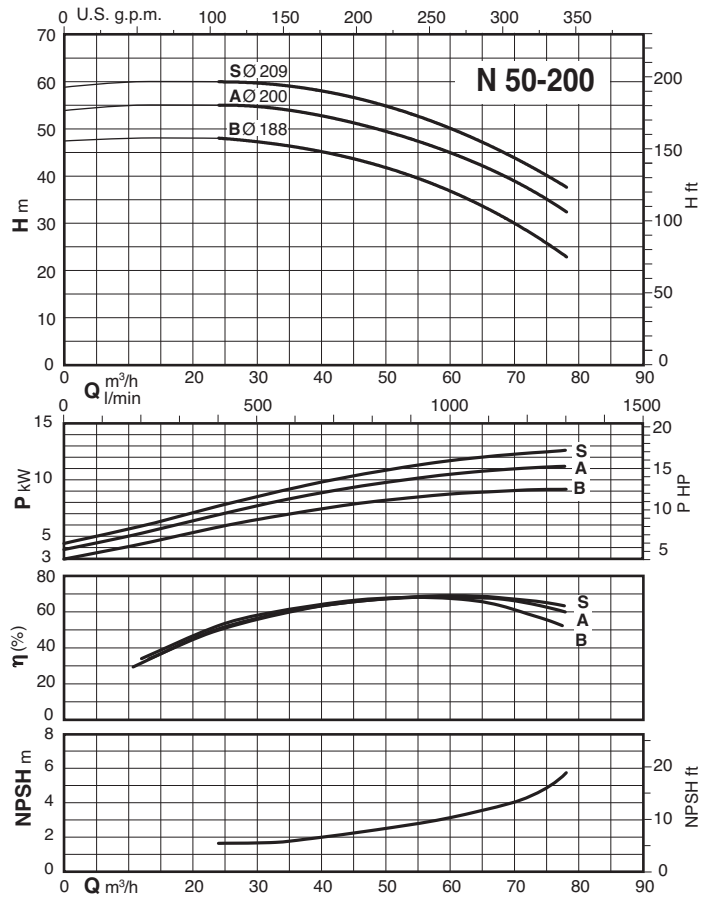
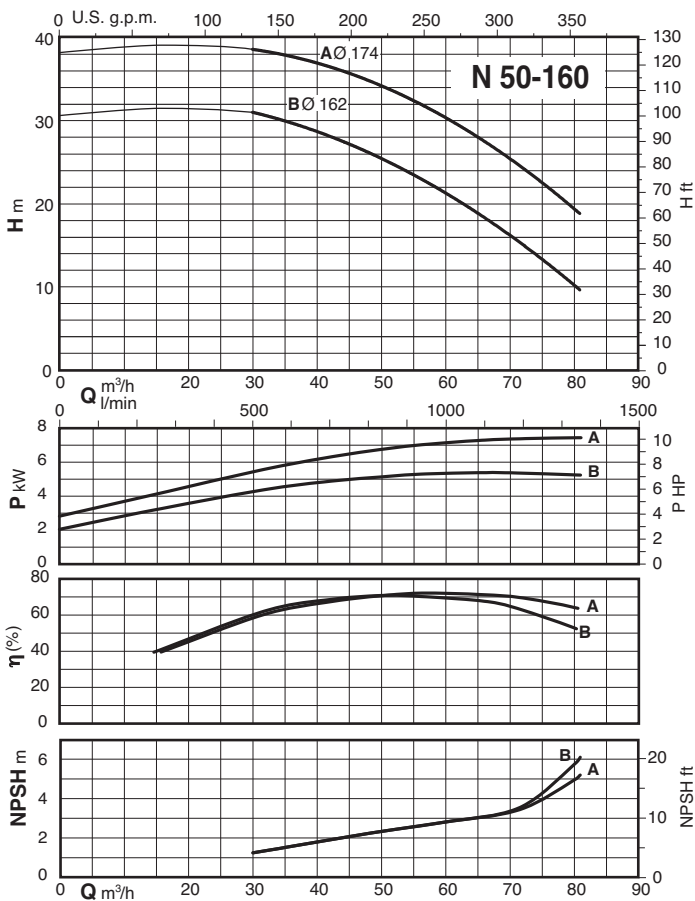
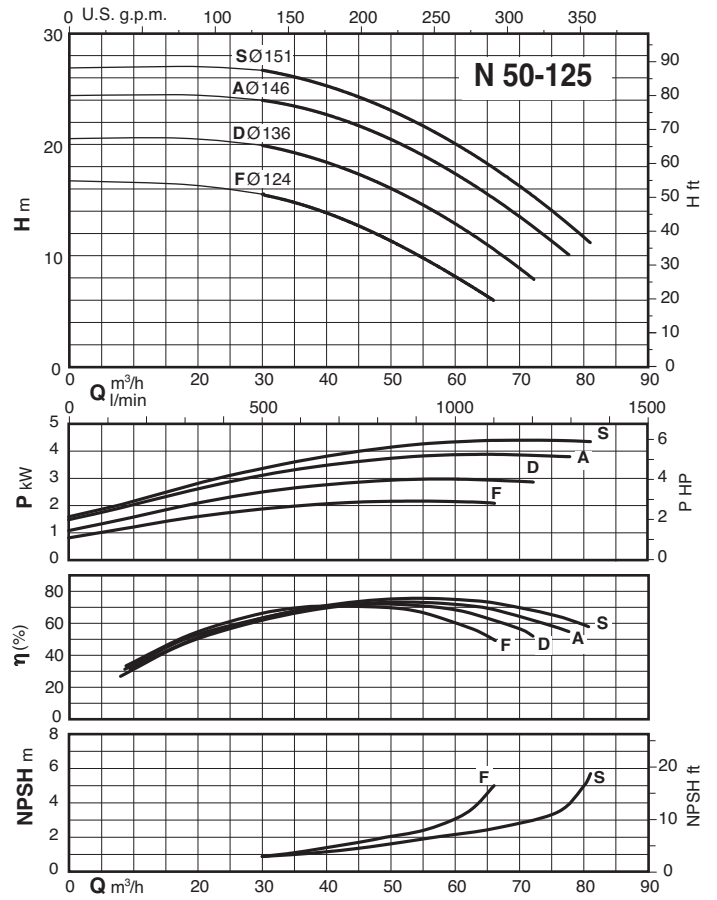
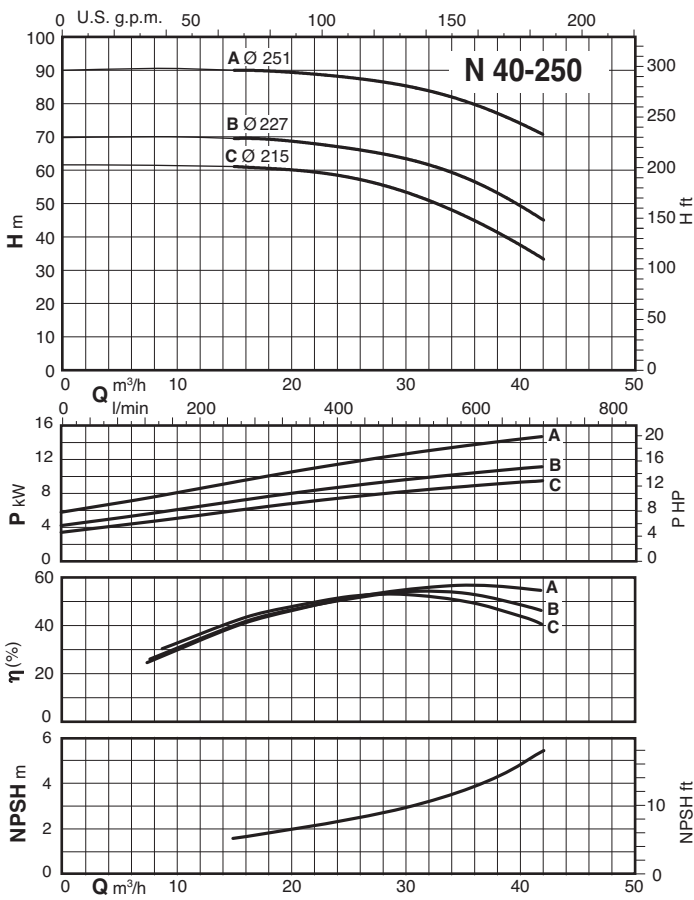


Characteristic curves $n \approx 2900$ rpm



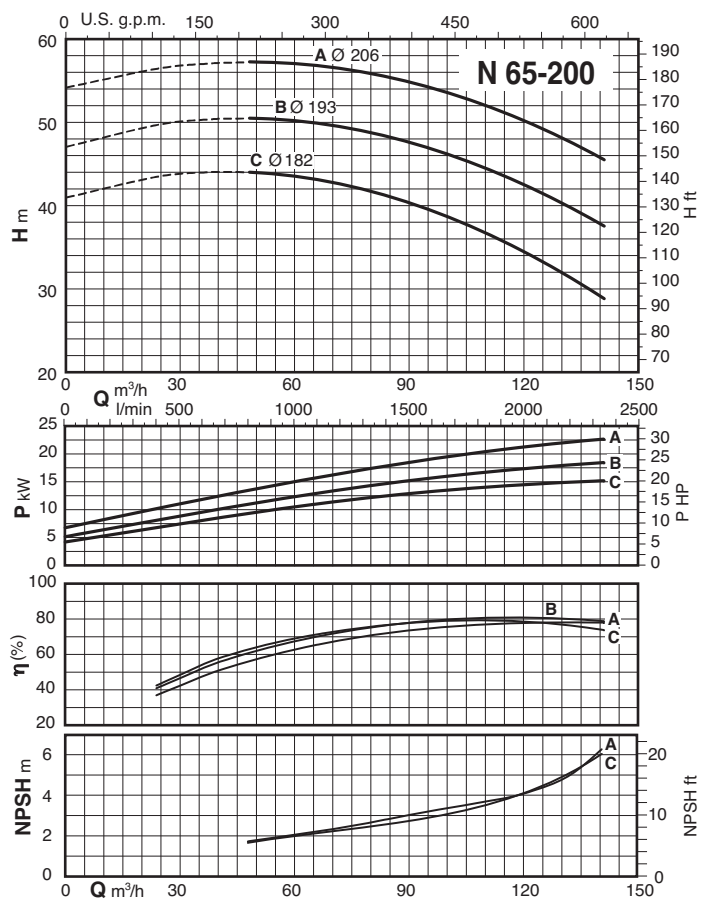
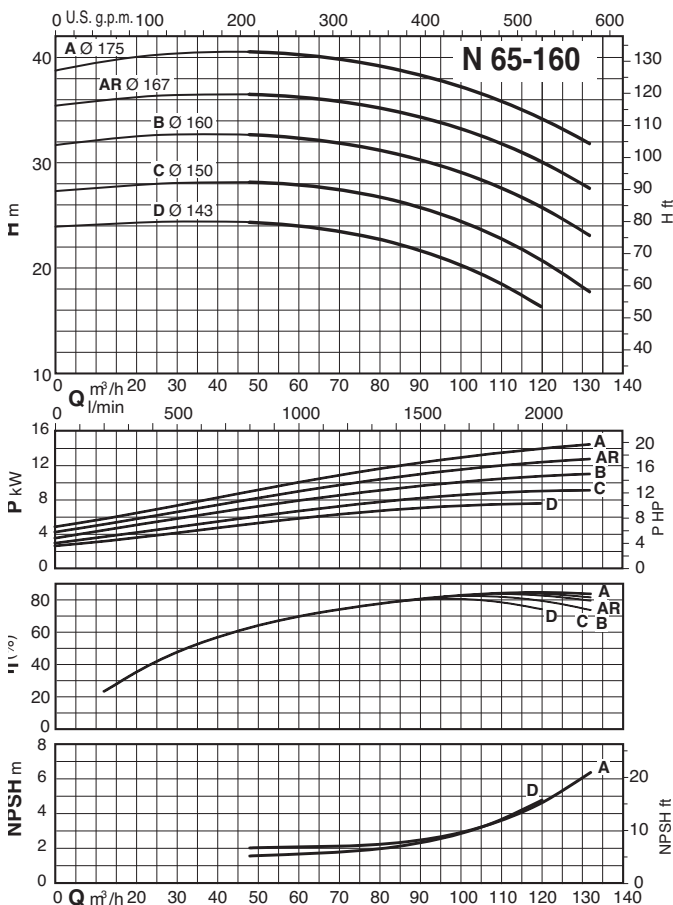
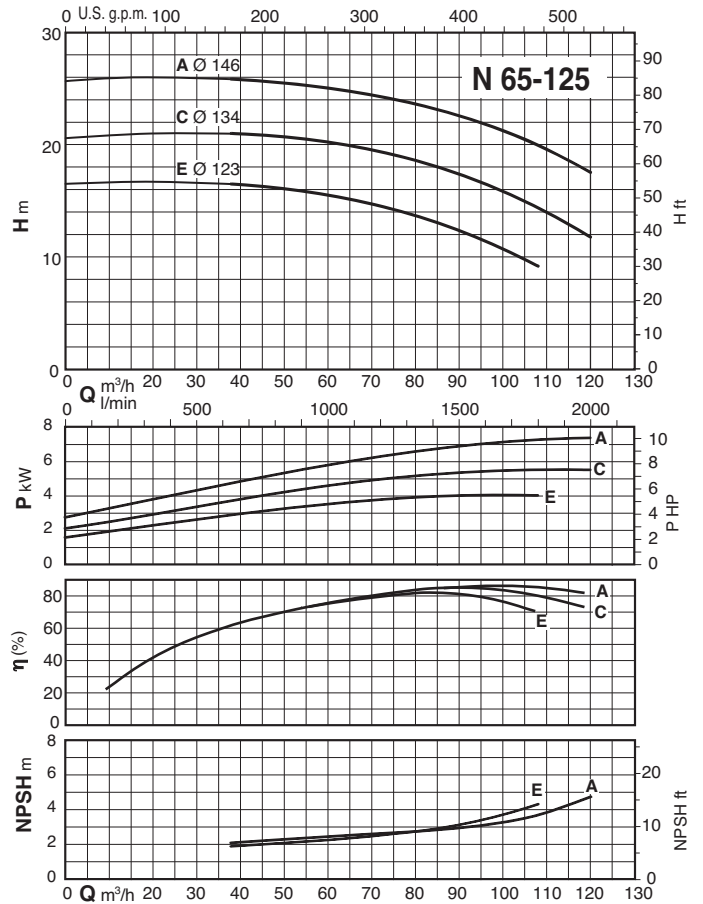
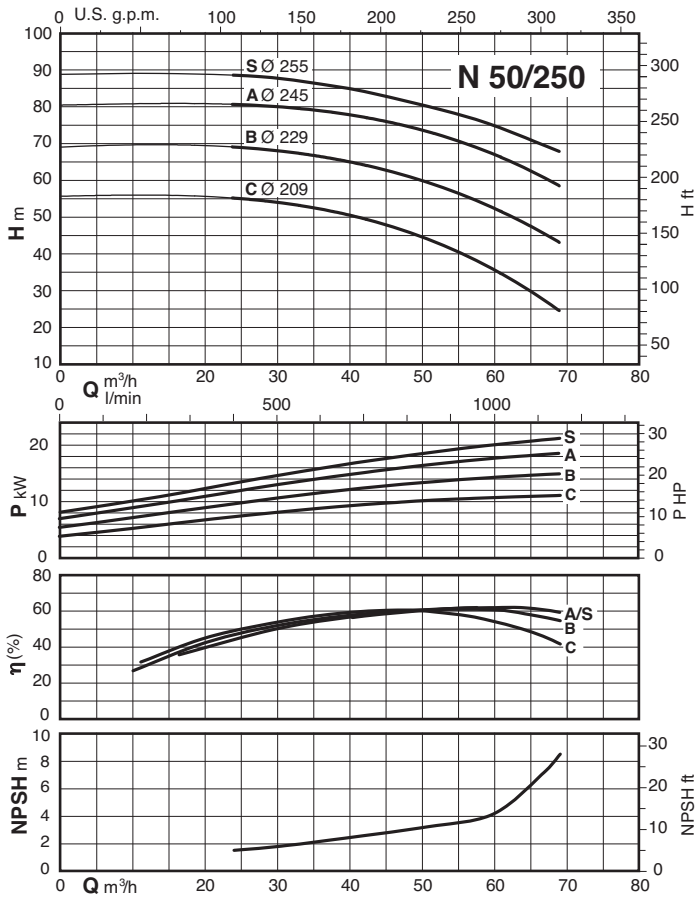


Characteristic curves $n \approx 2900$ rpm



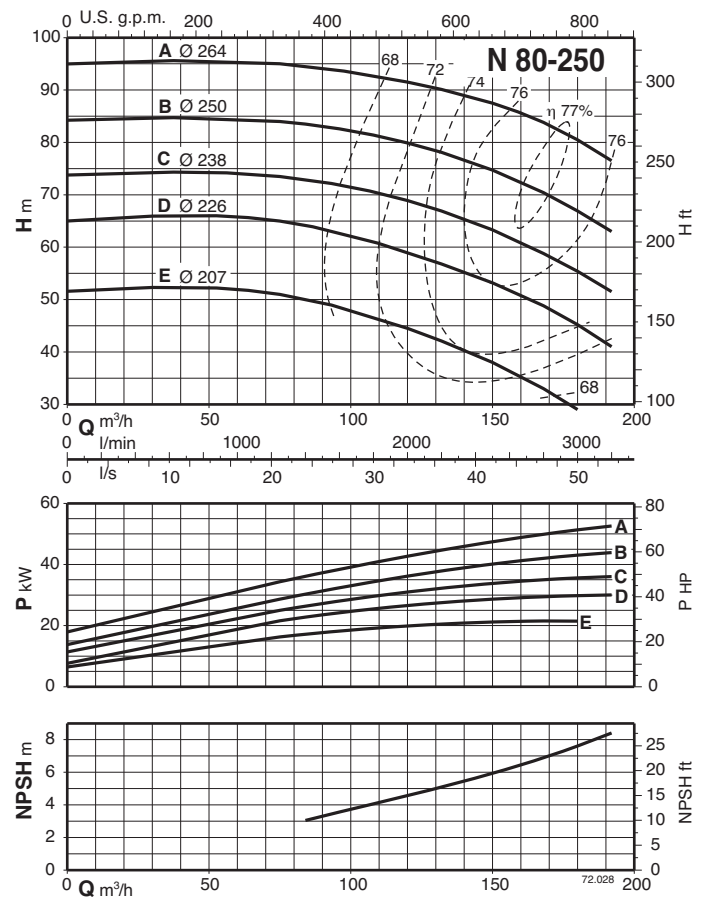
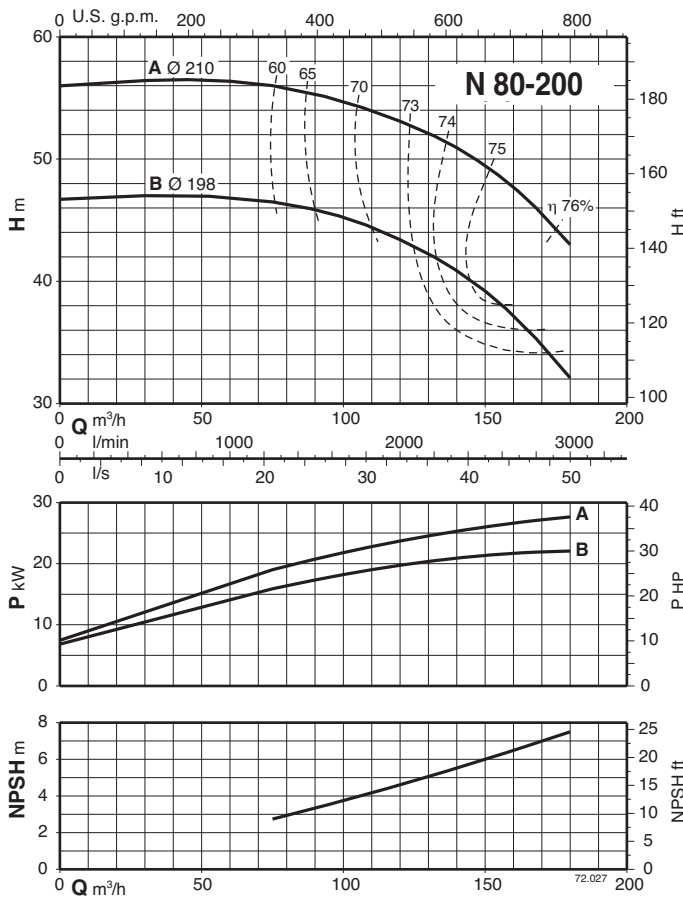
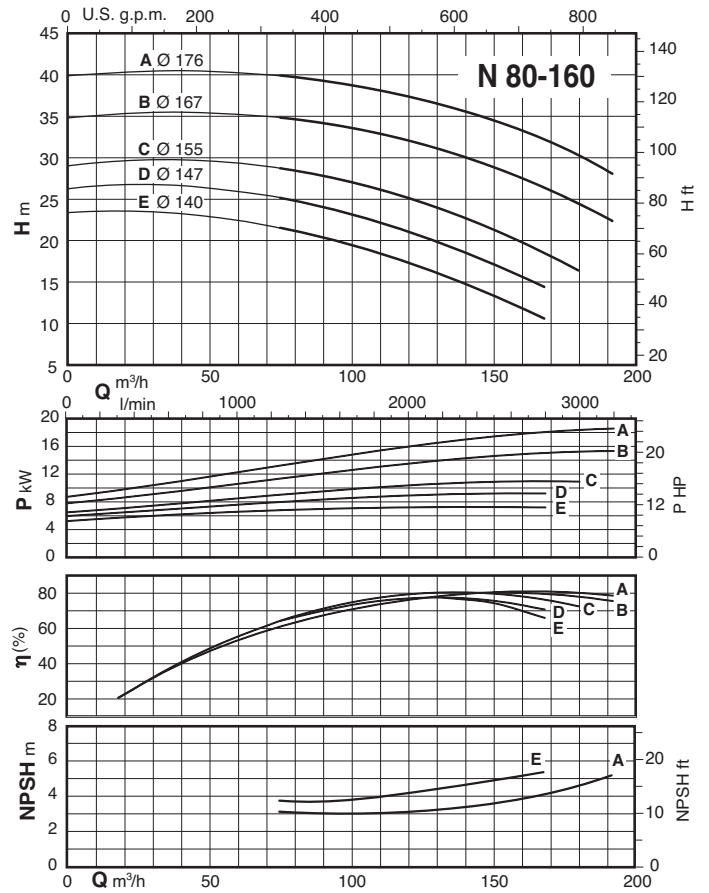
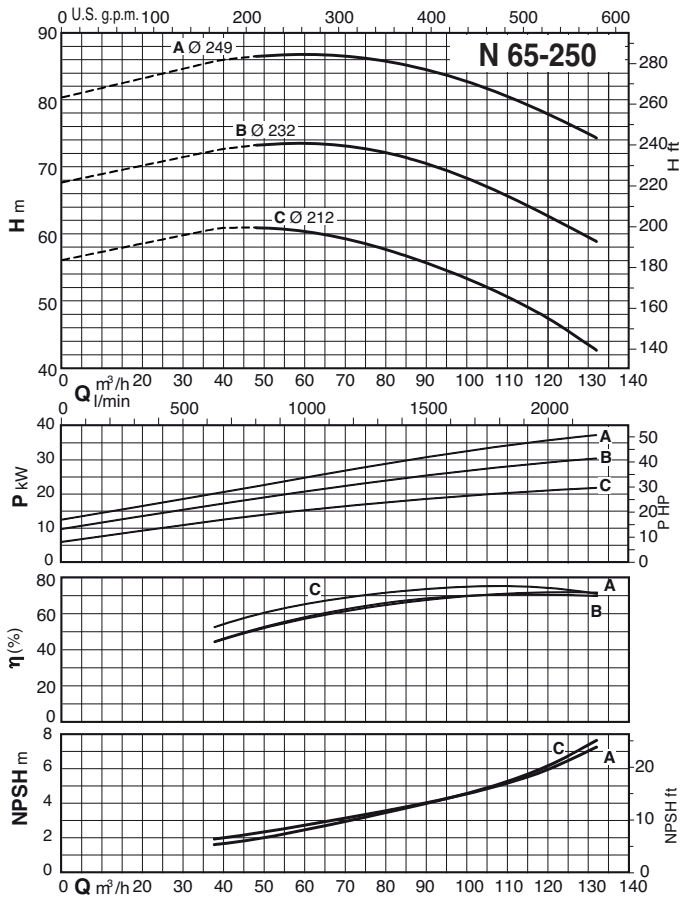


Characteristic curves $n \approx 2900$ rpm

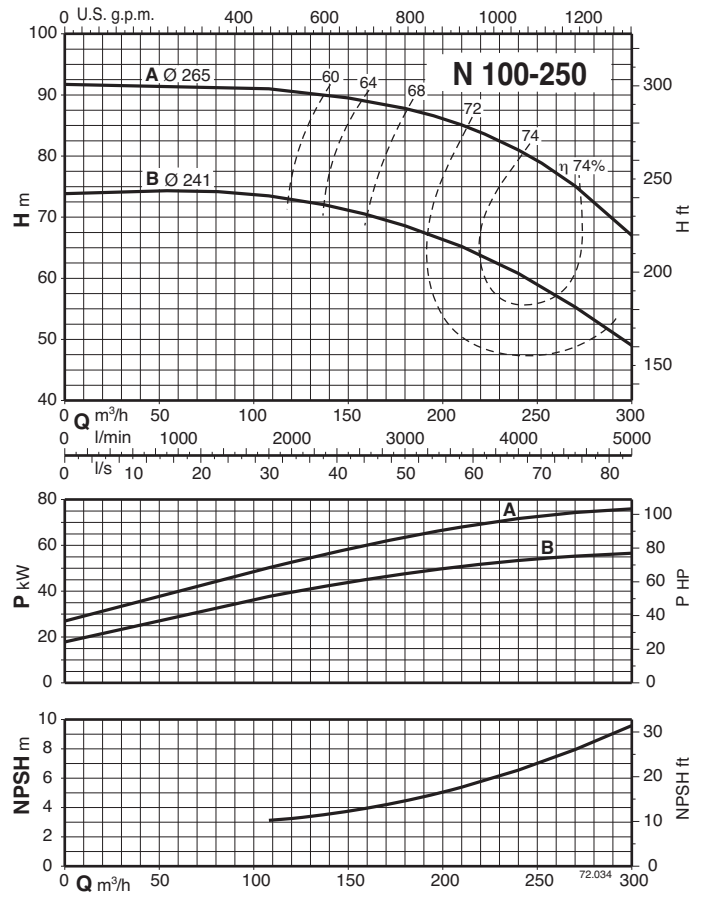
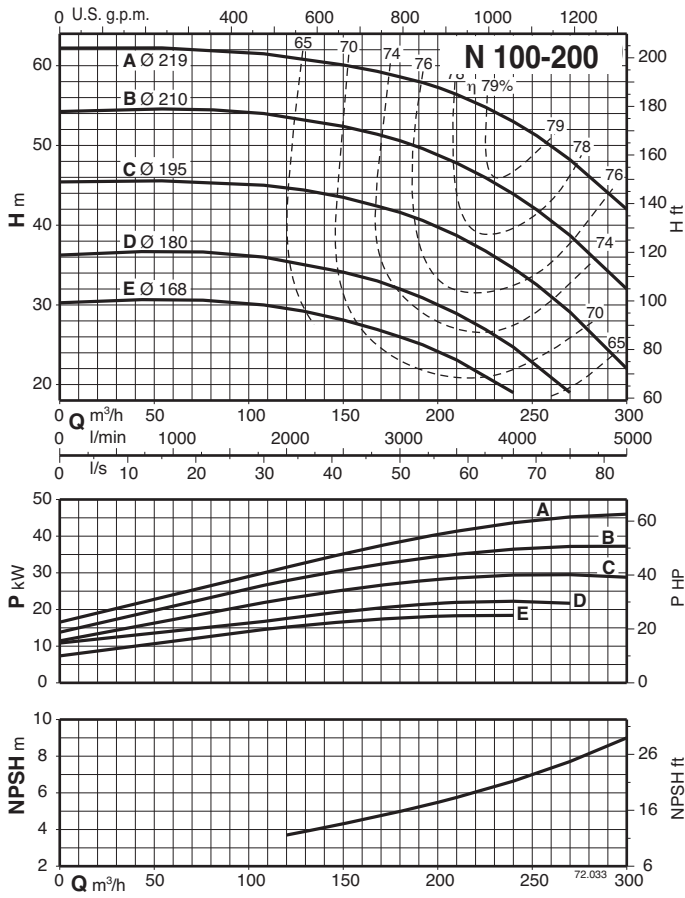




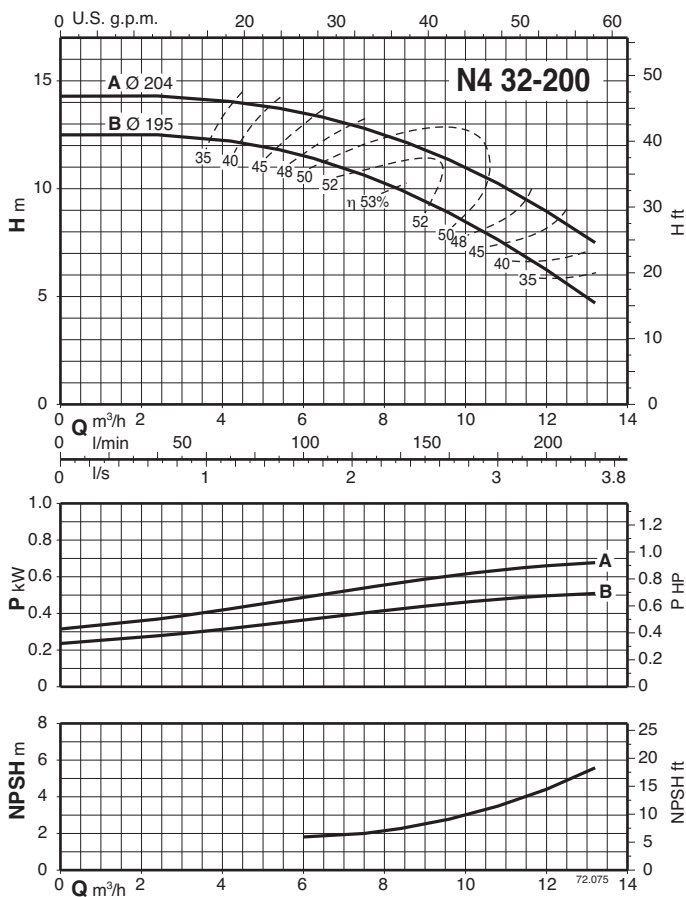
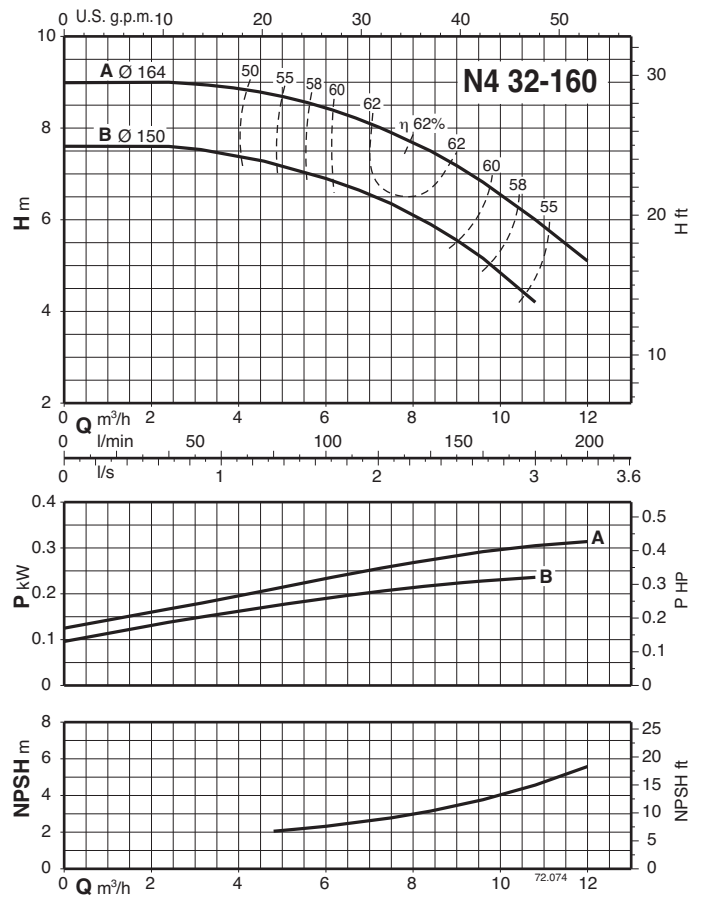
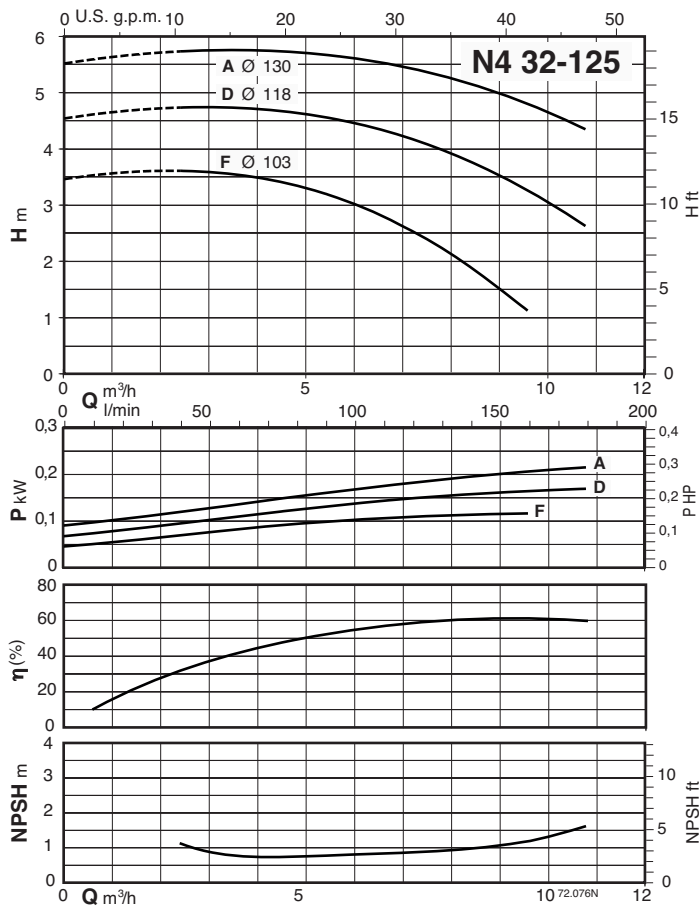
Characteristic curves $n \approx 2900$ rpm



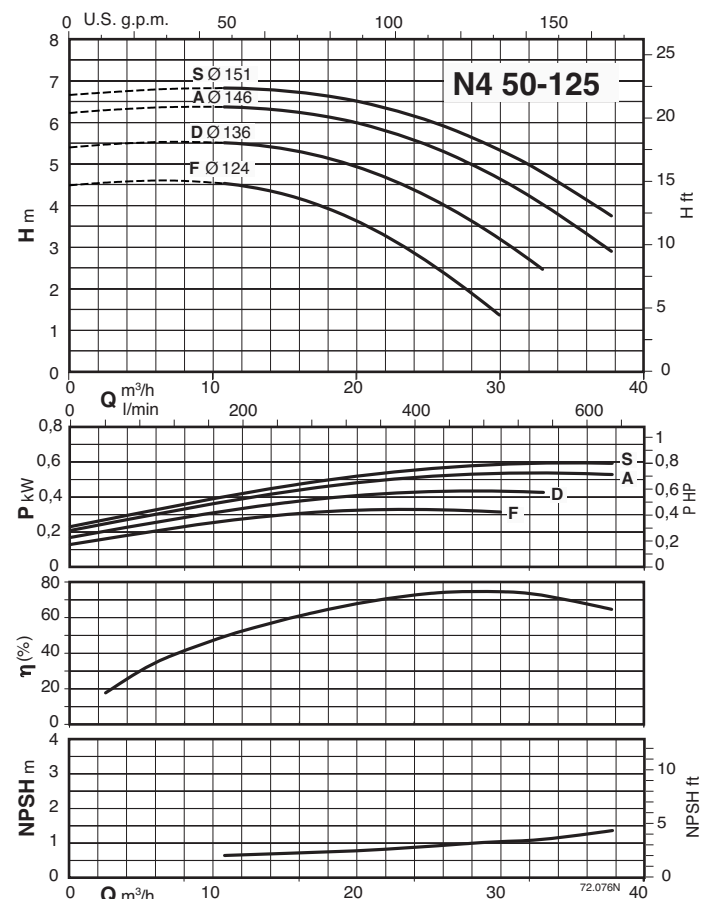
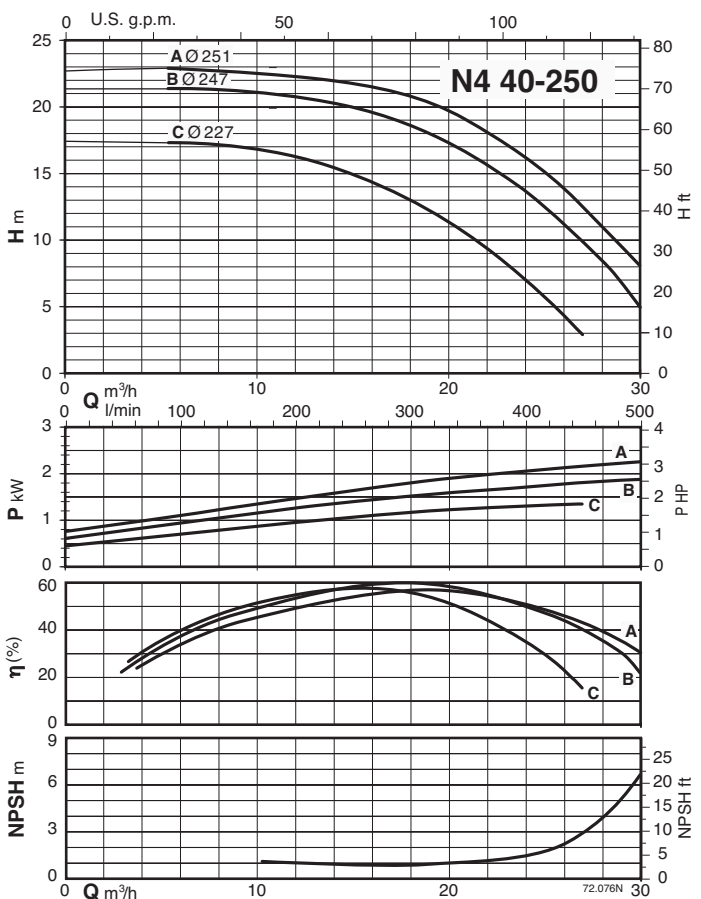
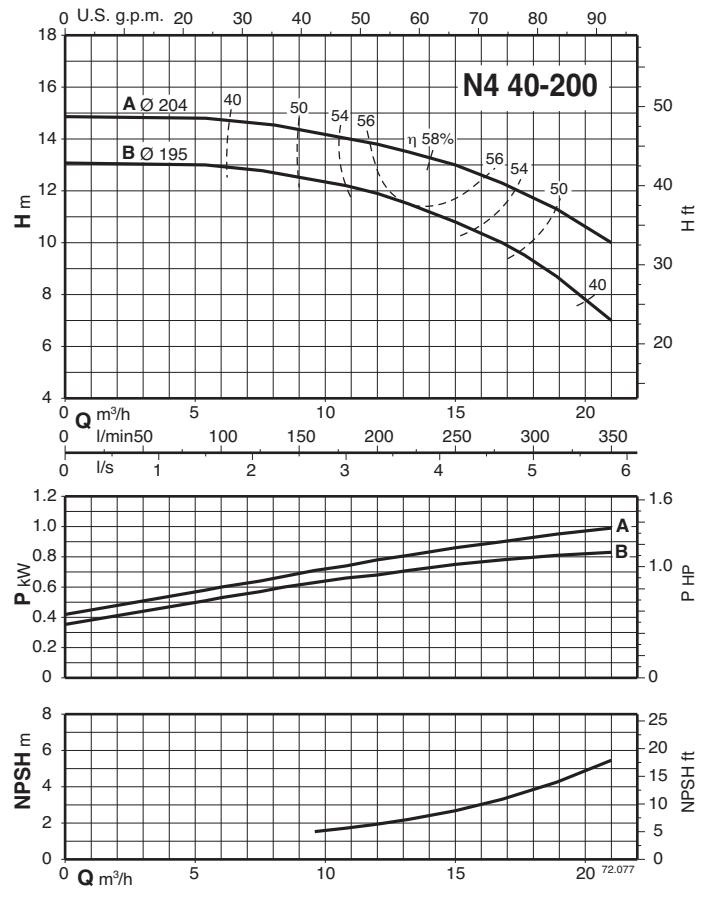
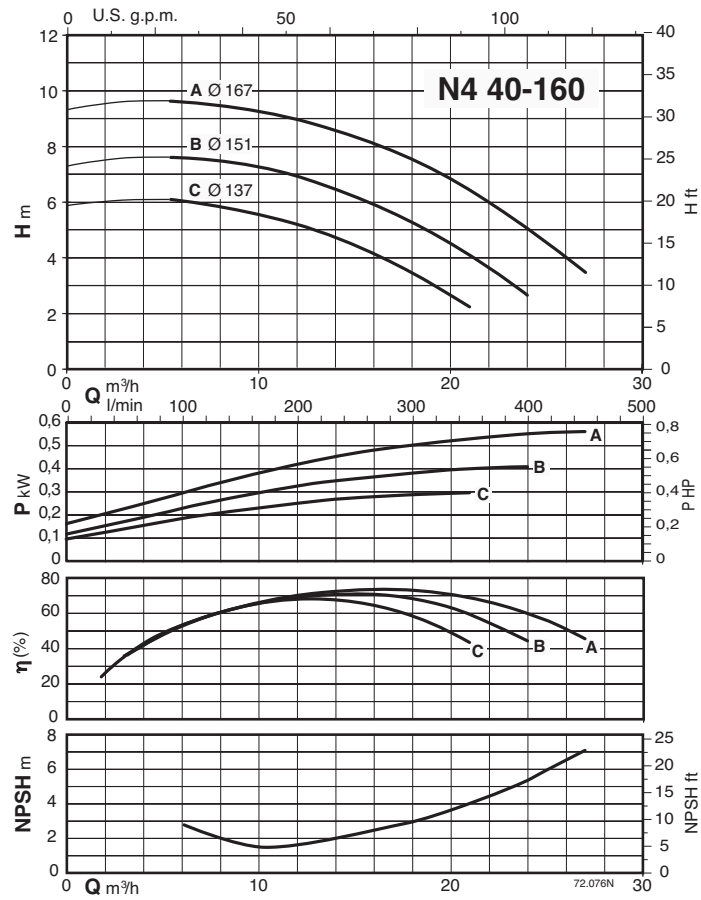
Characteristic curves $n \approx 2900$ rpm



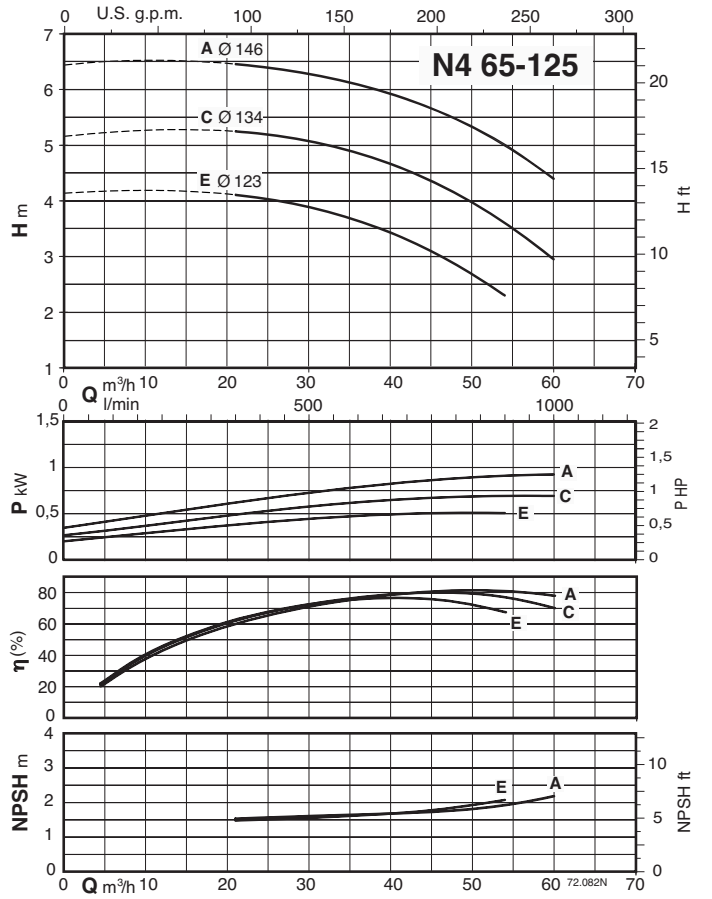
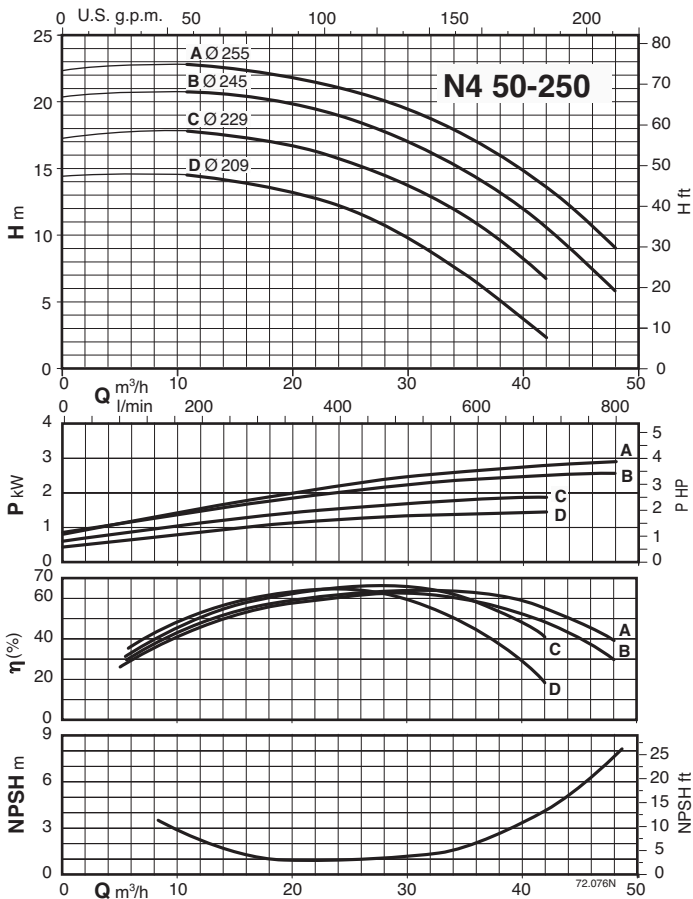
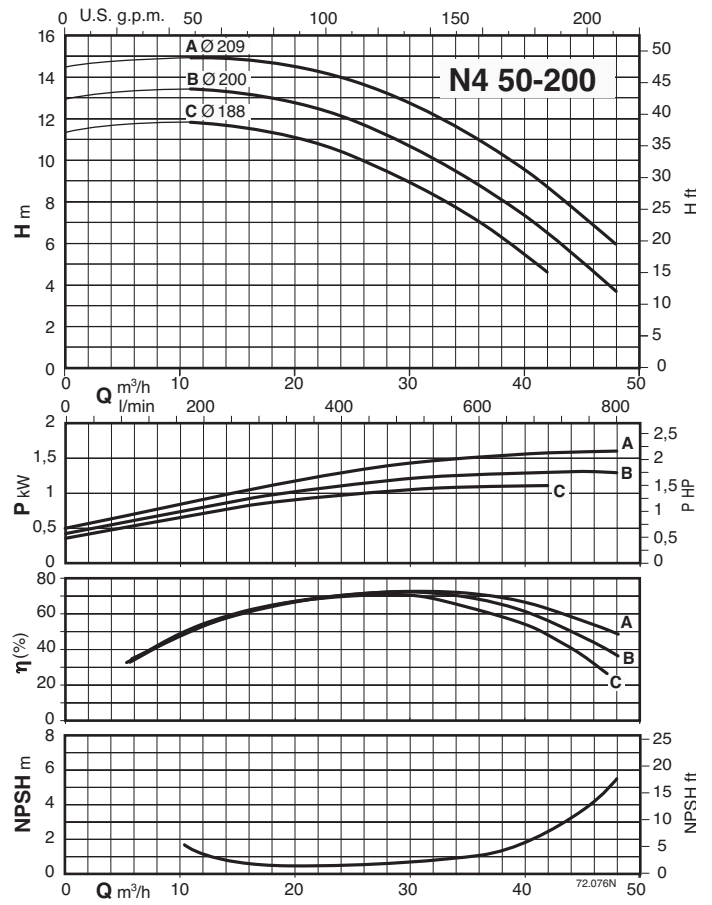
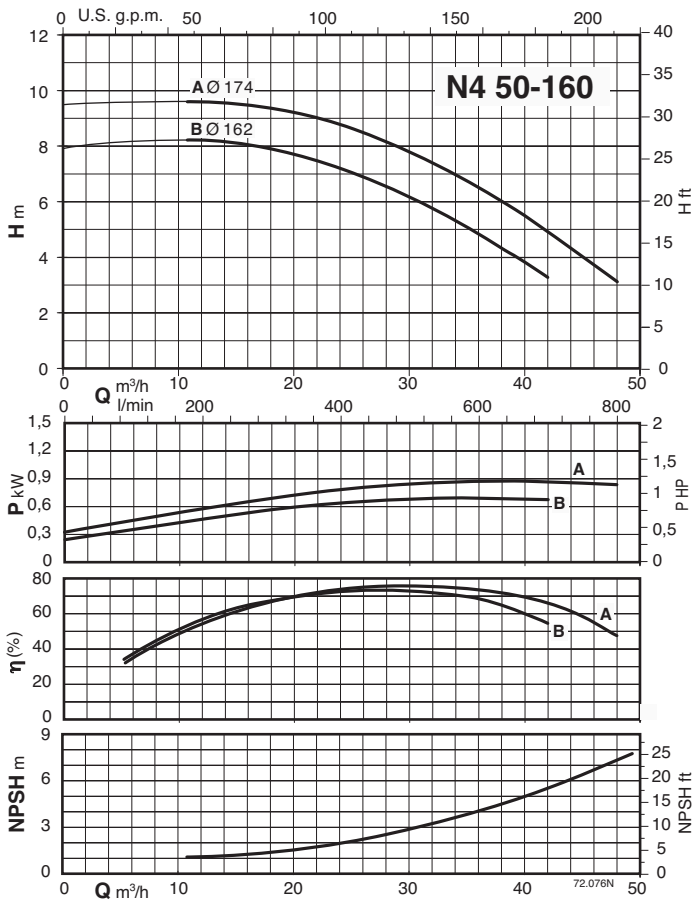
Characteristic curves $n \approx 1450$ rpm



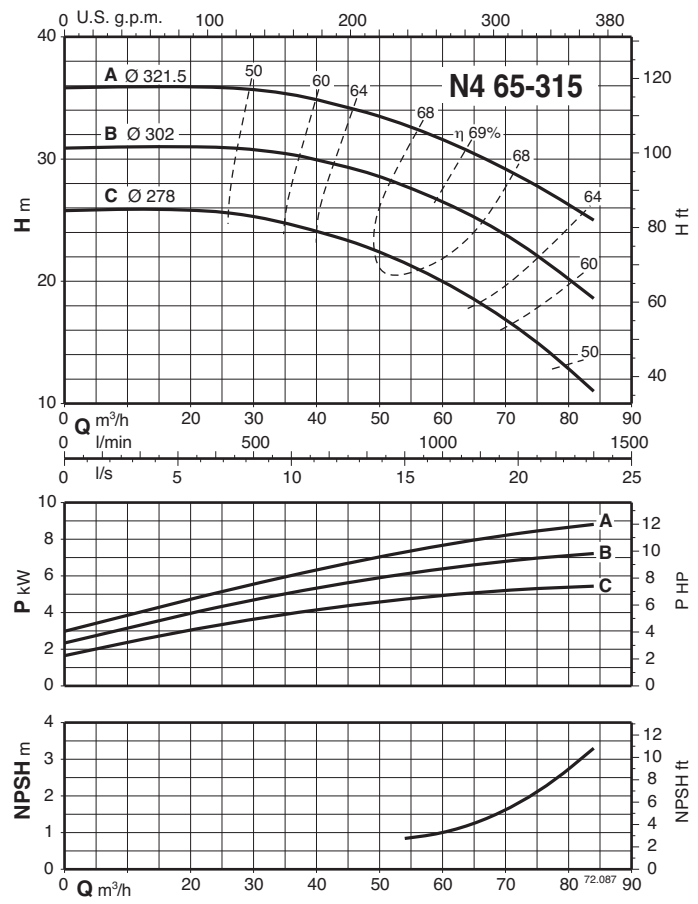
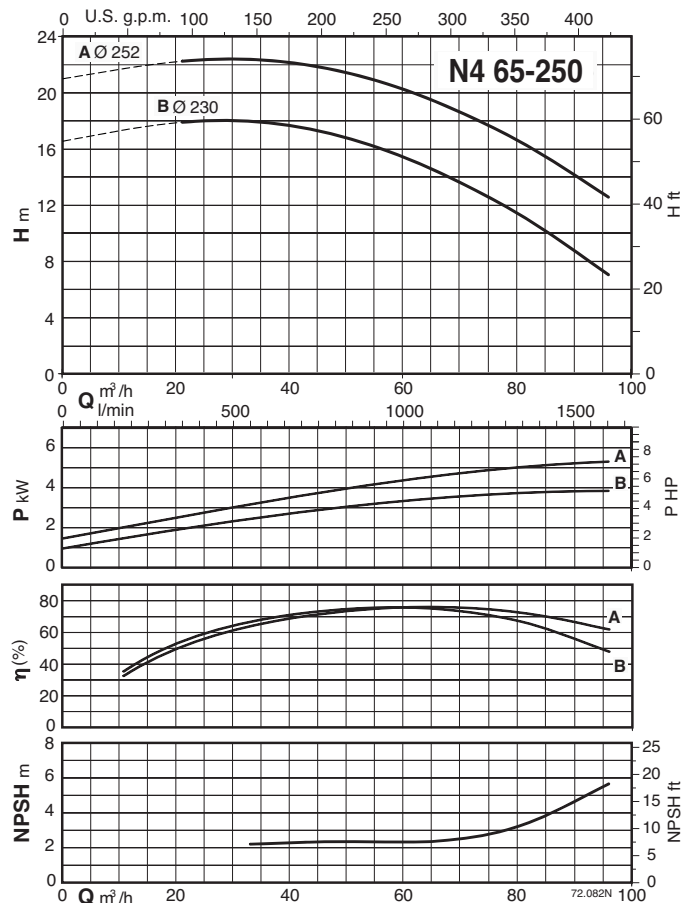
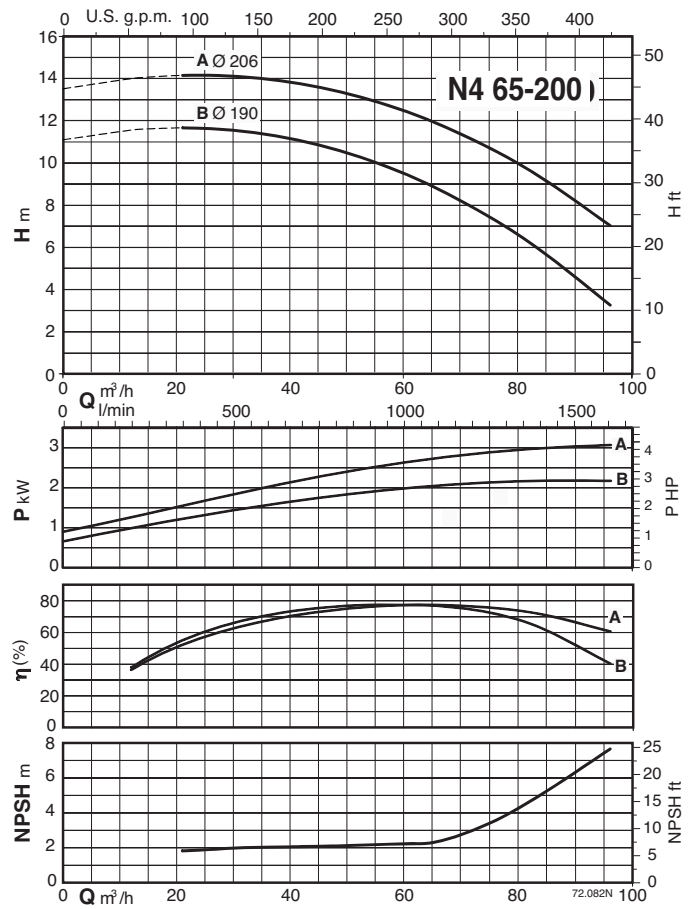
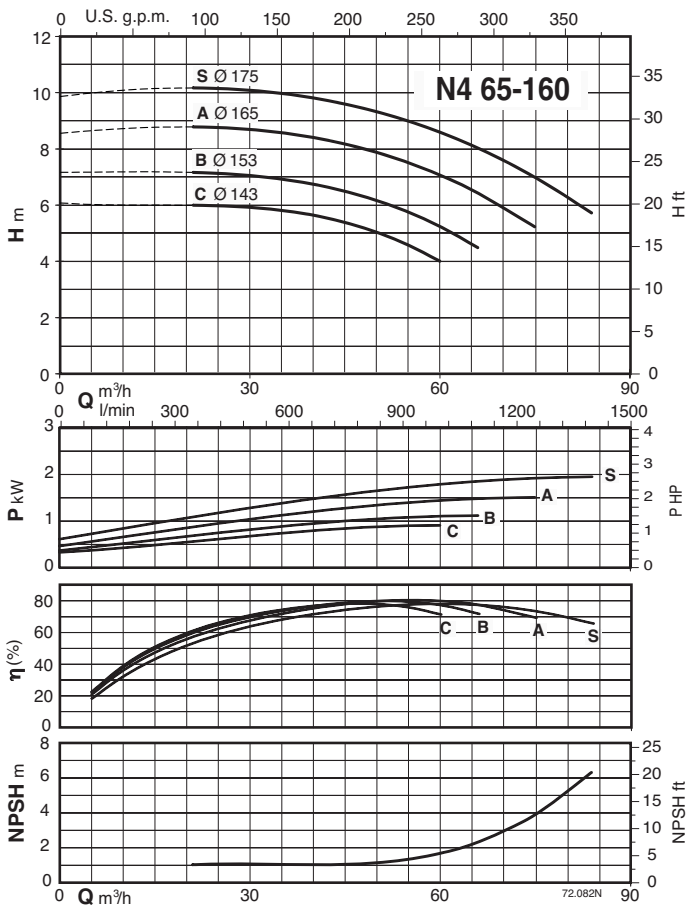
Characteristic curves $n \approx 1450$ rpm



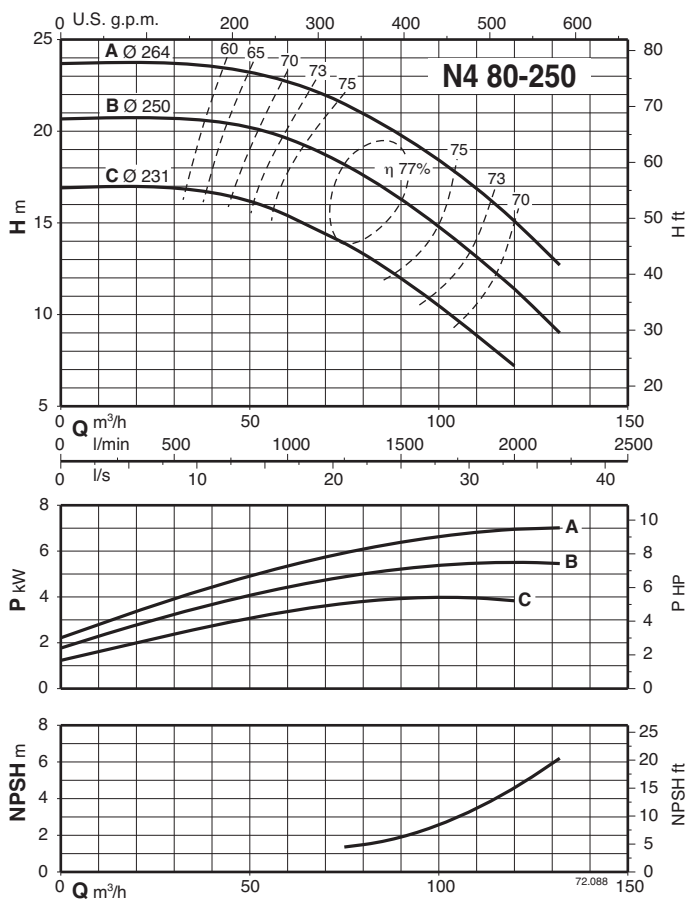
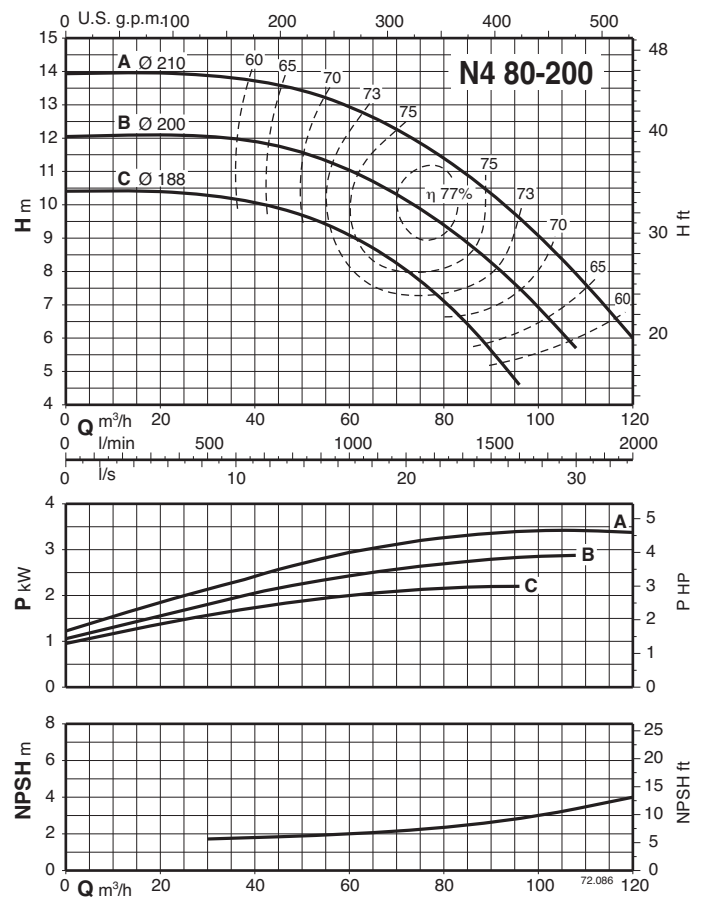
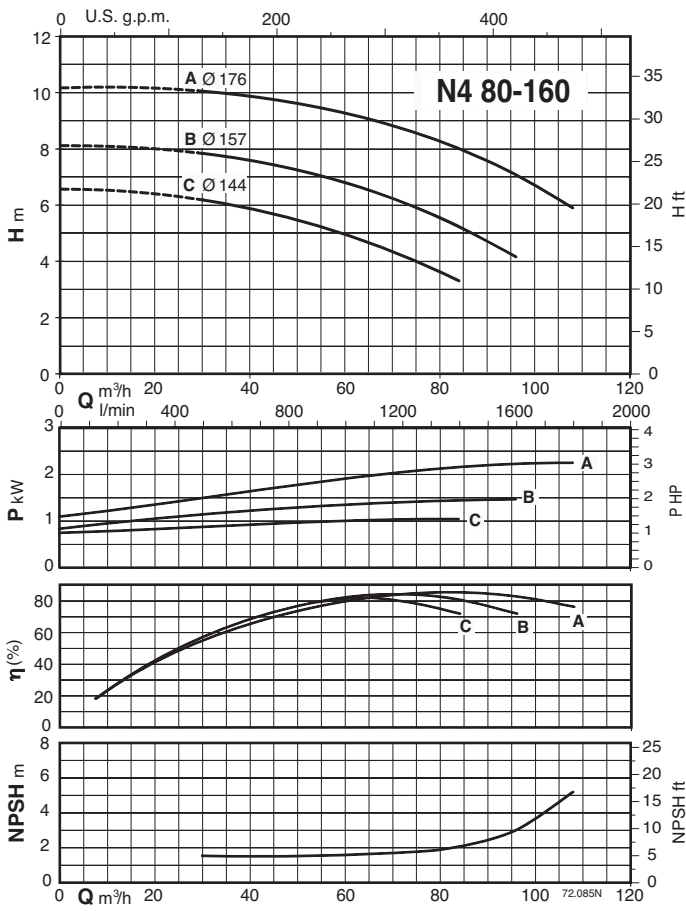
Characteristic curves $n \approx 1450$ rpm



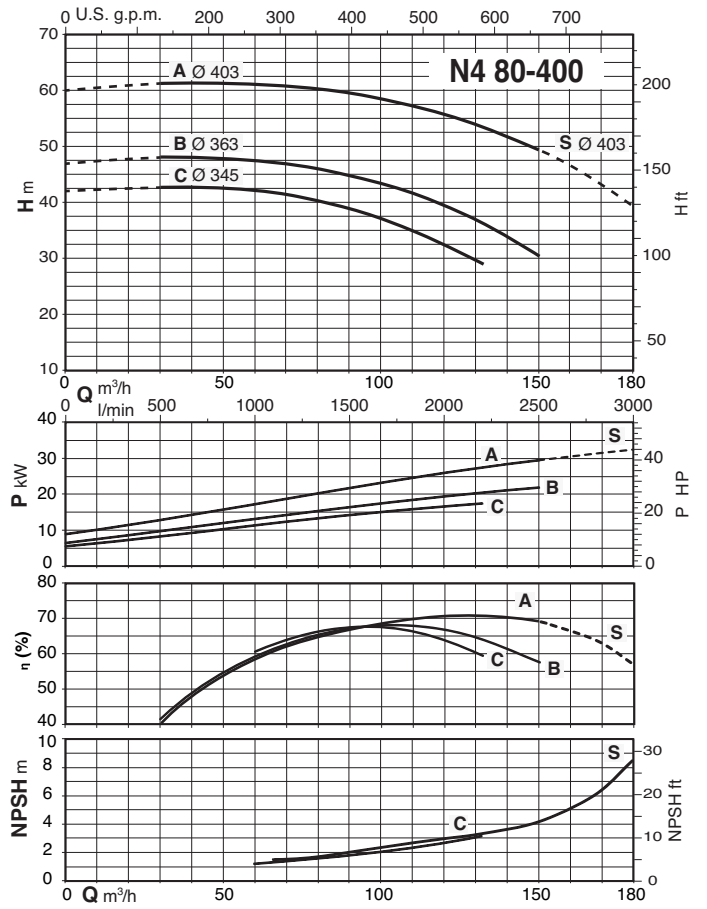
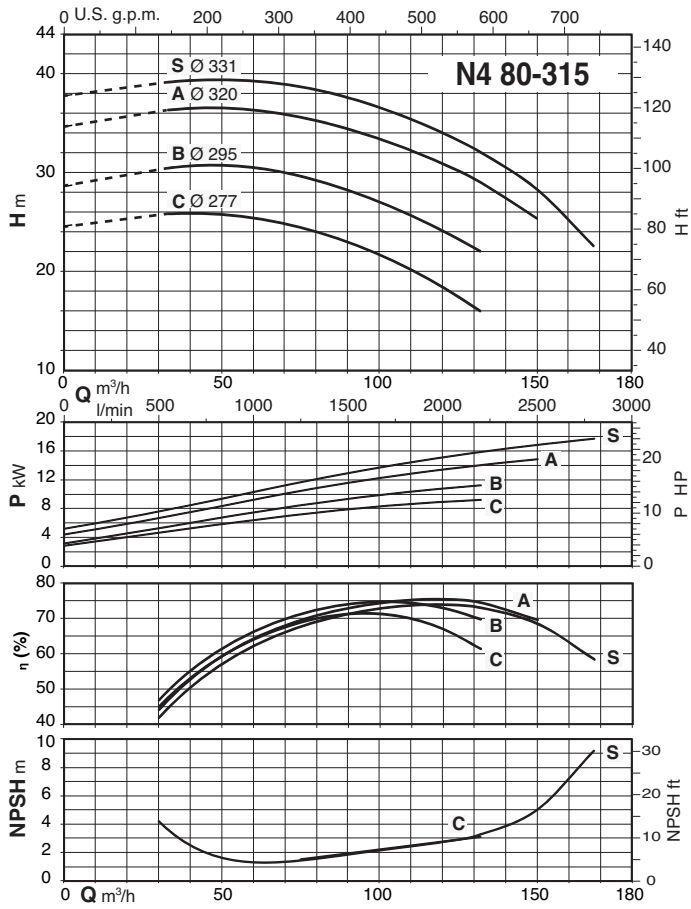
Characteristic curves $n \approx 1450$ rpm



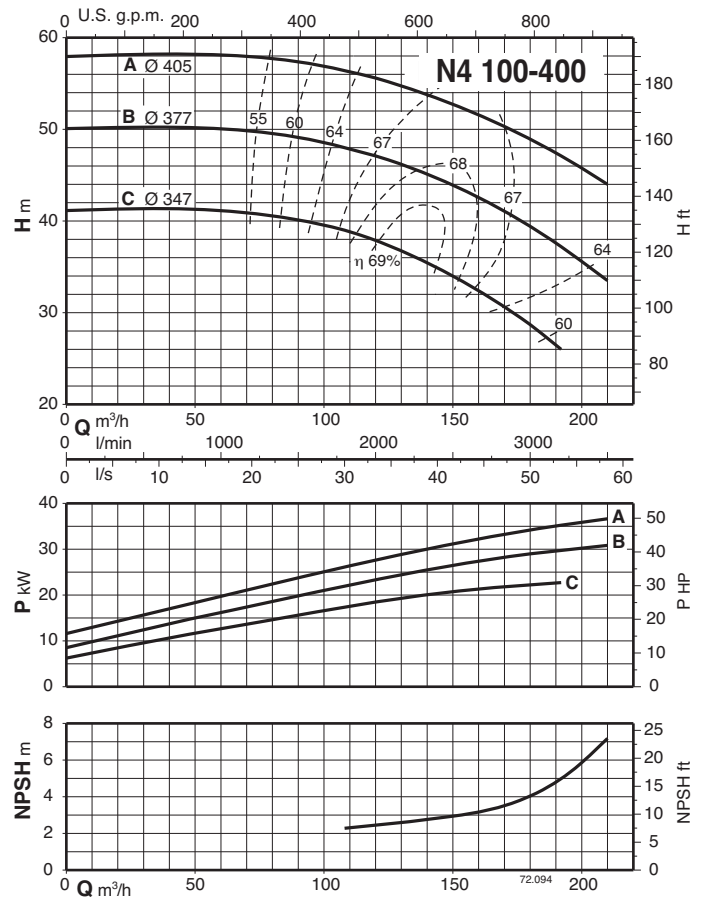
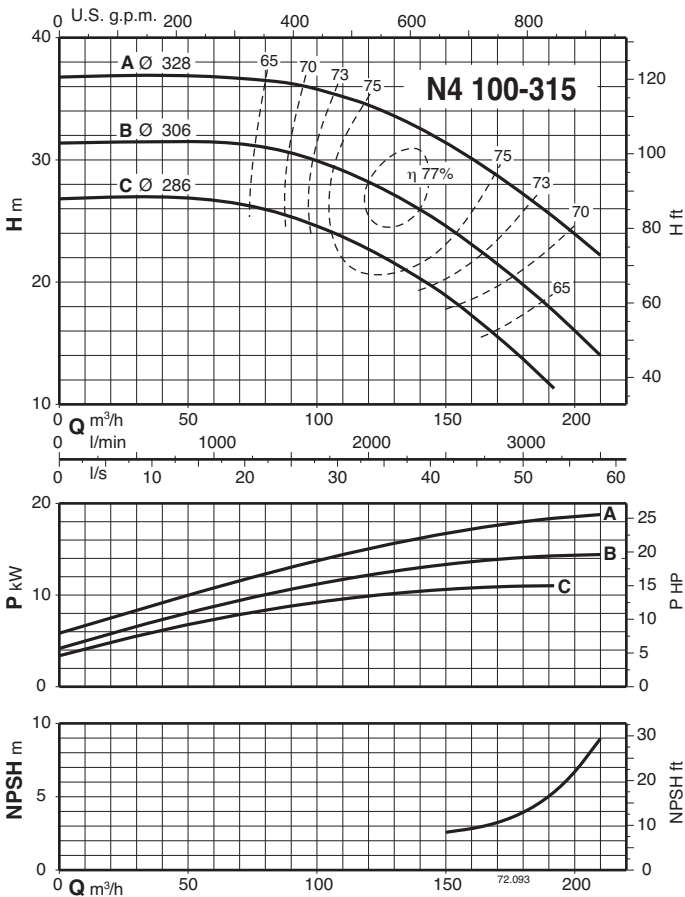
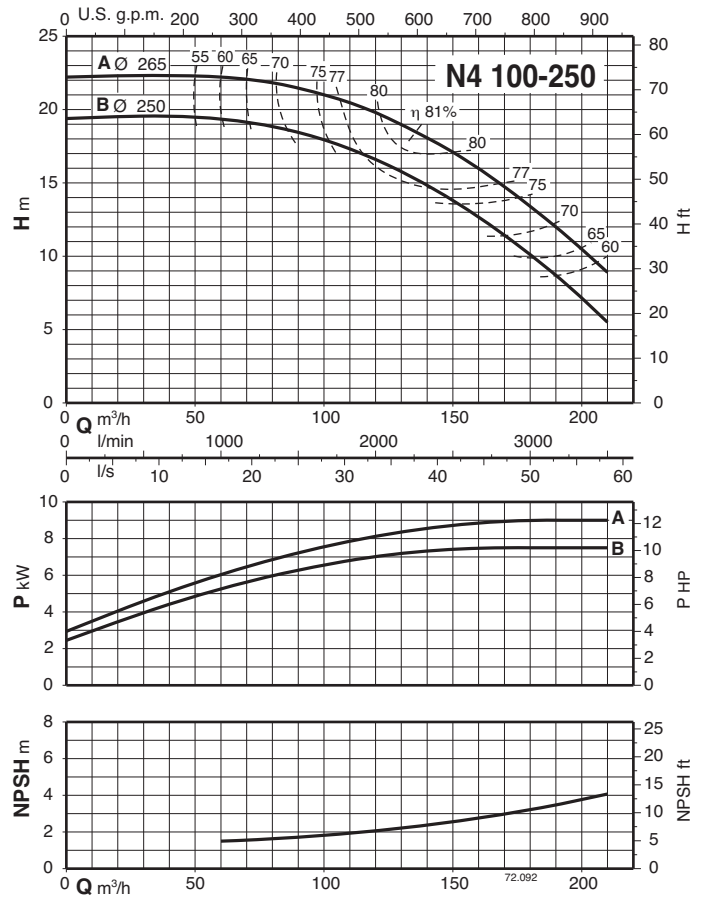
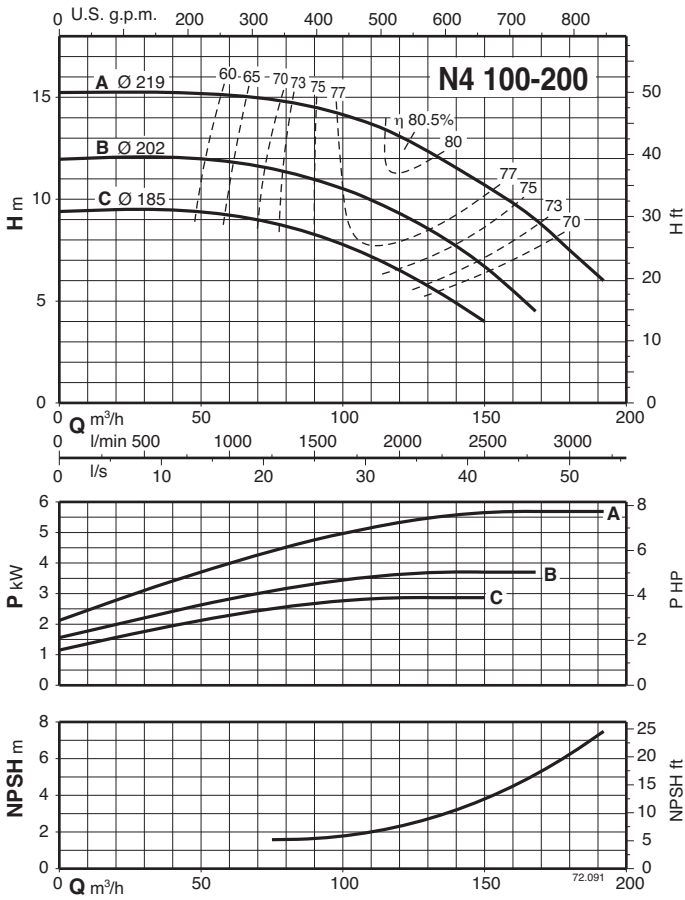
Characteristic curves $n \approx 1450$ rpm



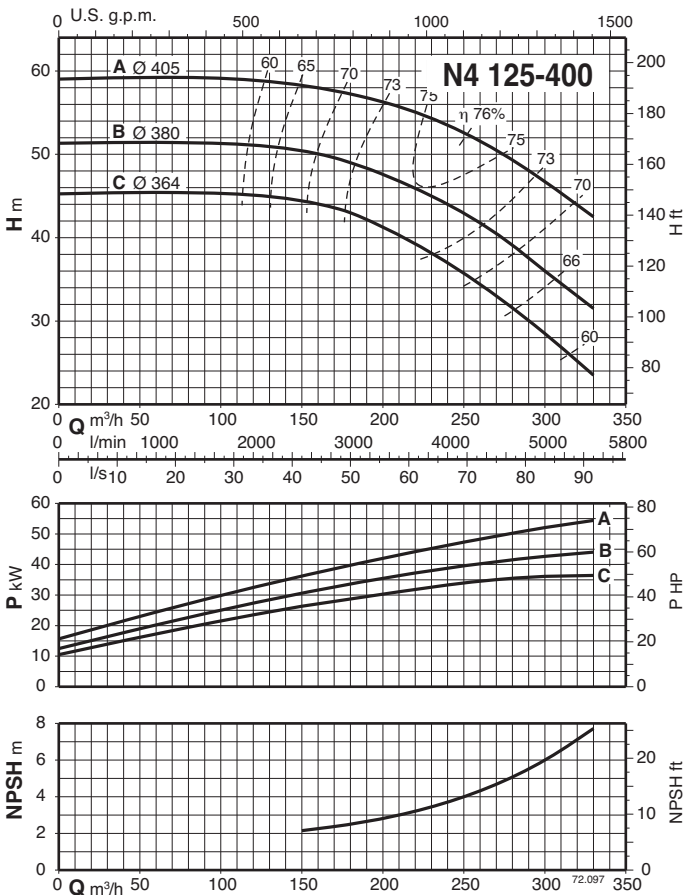
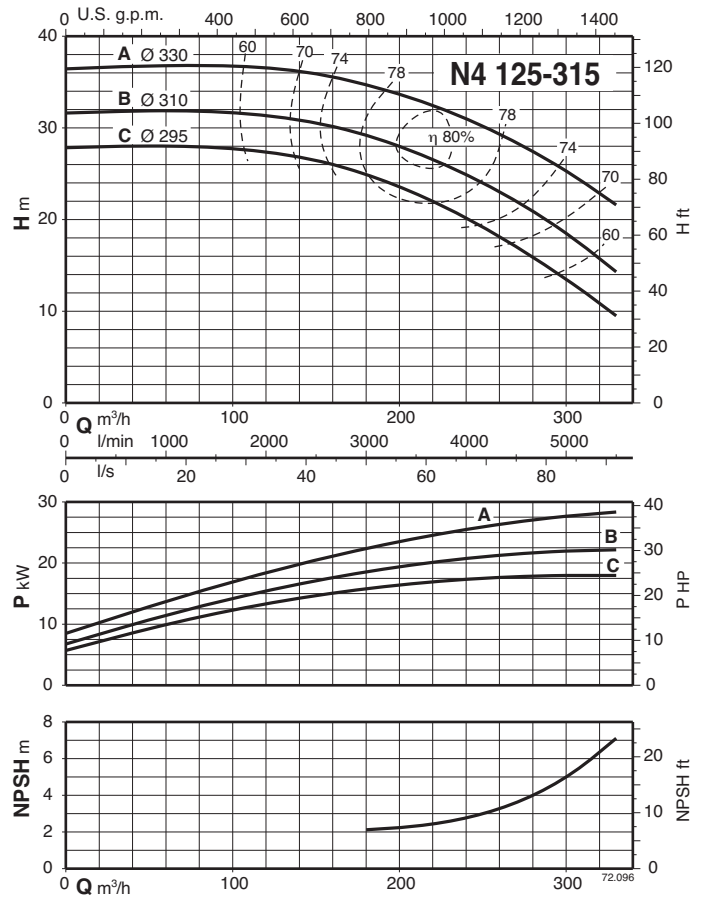
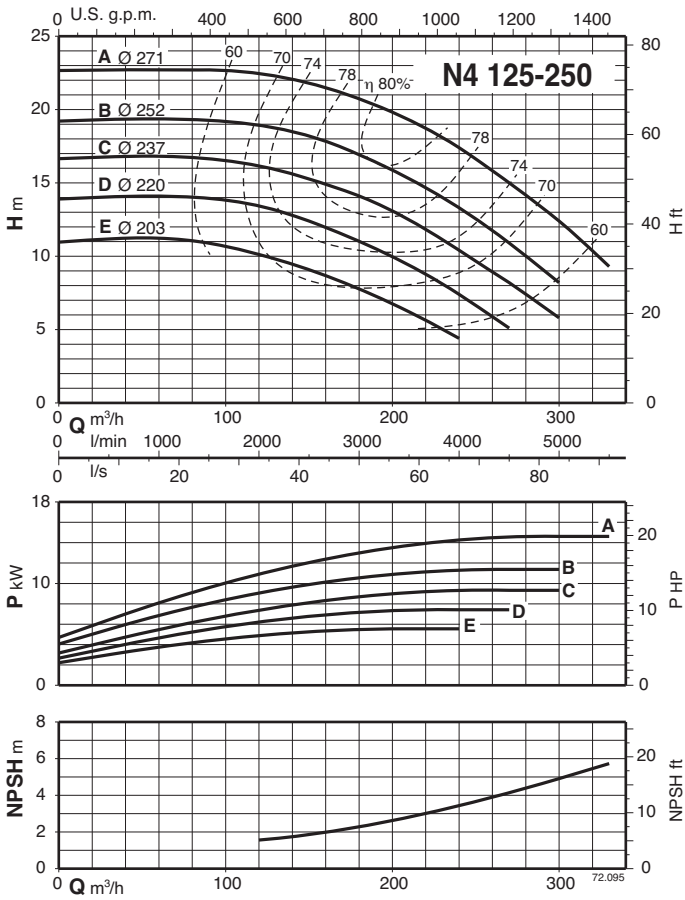
Characteristic curves $n \approx 1450$ rpm



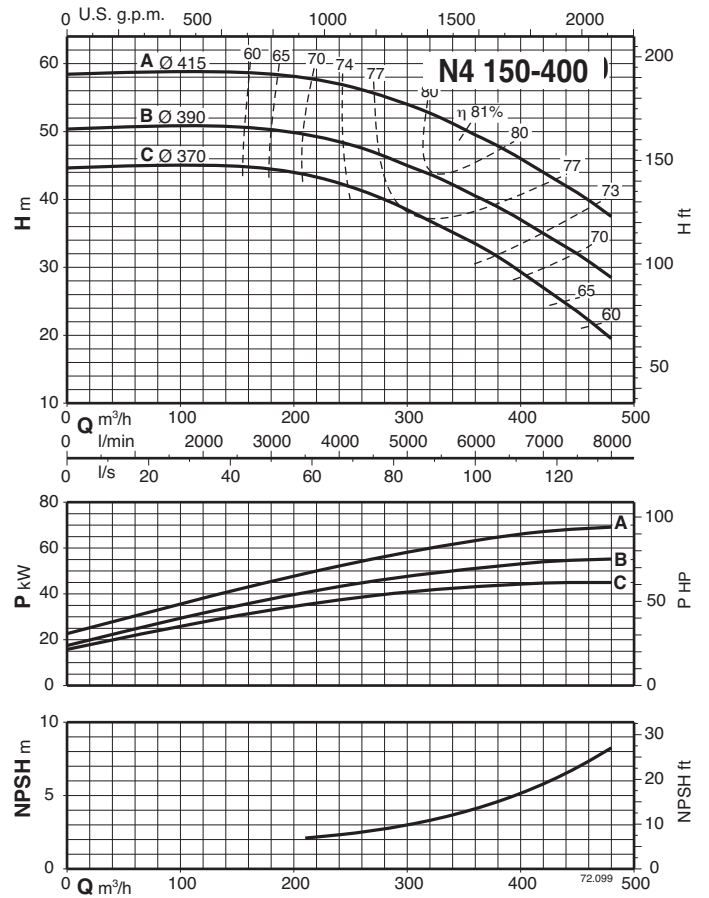
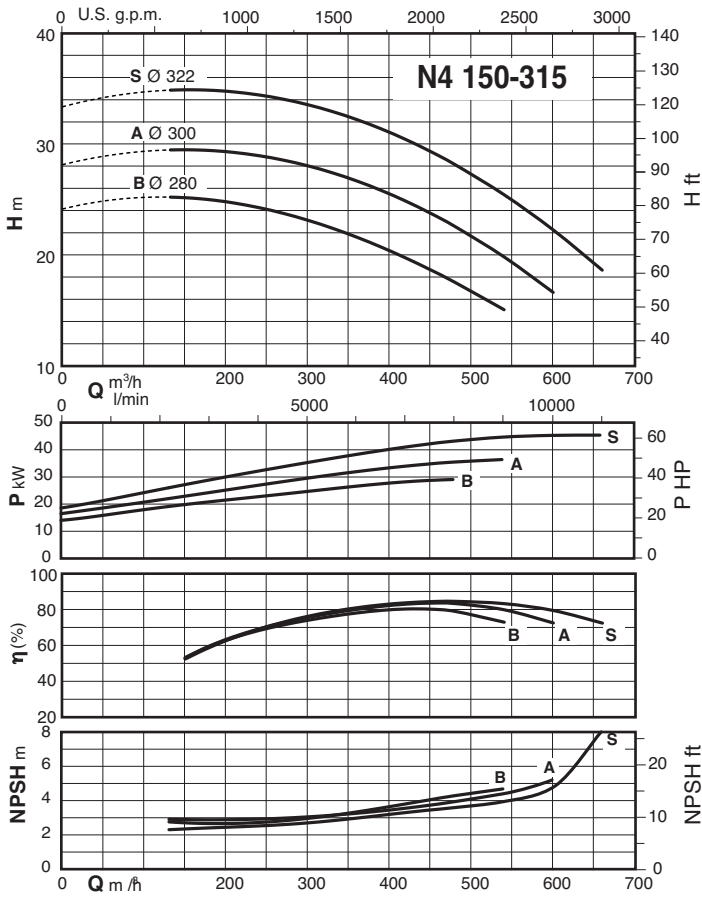
Characteristic curves $n \approx 1450$ rpm



Characteristic curves $n \approx 1450$ rpm



Characteristic curves $n \approx 1450$ 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			x	
N4 80-400			x					x				x			x
N,N4 100-200		x					x				x			x	
N,N4 100-250		x					x				x			x	
N4 100-315		x					x				x			x	
N4 100-400			x					x				x			x
N4 125-250		x					x				x			x	
N4 125-315			x					x				x			x
N4 125-400			x					x				x			x
N4 150-315			x					x				x			x
N4 150-400			x					x				x			x

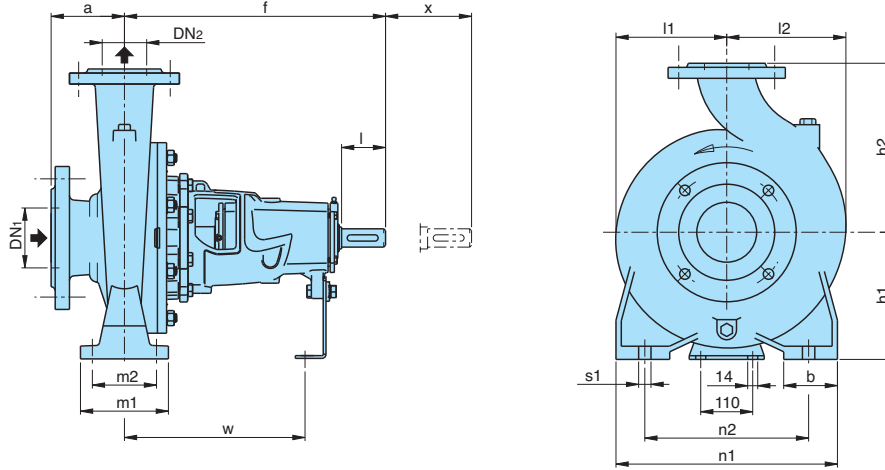
Maximum permissible rotation speed

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		80-250		65-315	
		100-200			100-250		80-315	80-400
							100-315	100-400
							125-315	125-400
							150-315	150-400

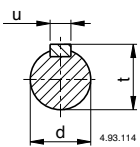
Suction pipe: recommended minimum inside diameter (DN) for different capacities (Q)

Threaded pipe	DN	G 2		G 2½						
		mm	mm	mm	mm	mm	mm	mm	mm	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

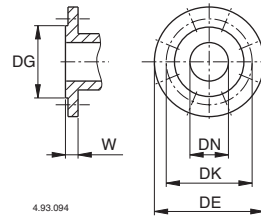


Shaft extension ISO 775 Parallel key UNI 6604



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

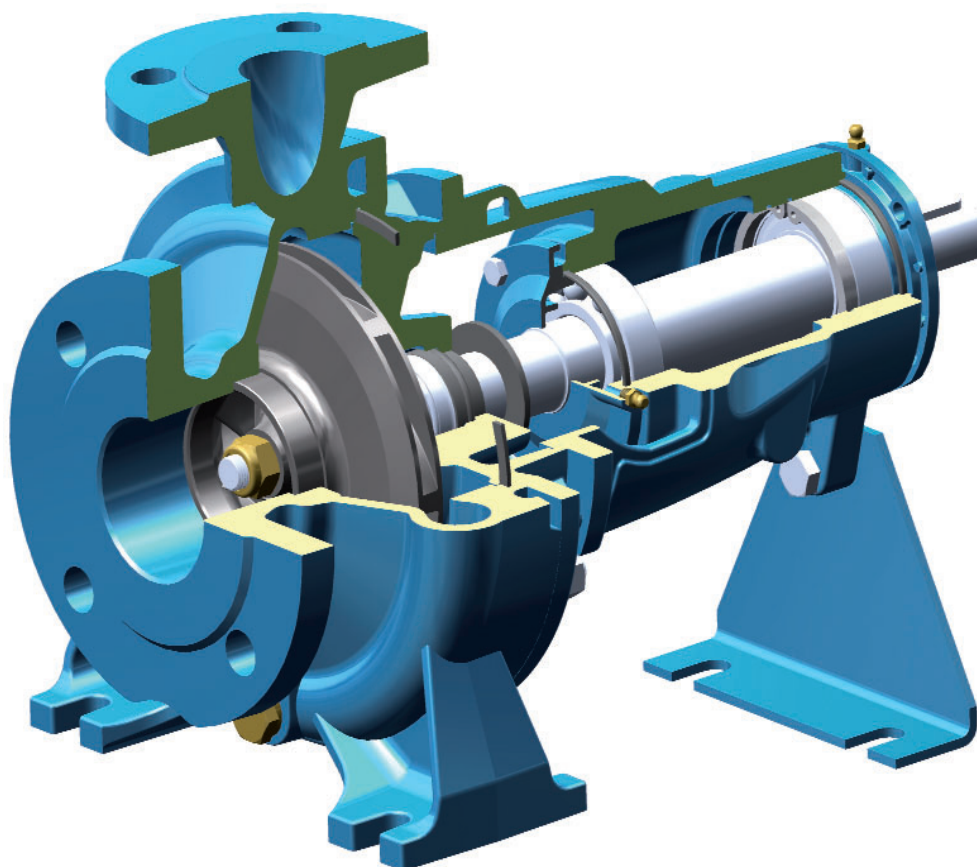


mm						
DN	DG	DK	DE	Holes		W
				N°	Ø	
32	76	100	140	4	19	18
40	84	110	150	4	19	18
50	99	125	165	4	19	20
65	118	145	185	4	19	20
80	132	160	200	8	19	22
100	156	180	220	8	19	24
125	184	210	250	8	19	24
150	211	240	285	8	23	26
200	266	295	340	8	23	30

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 B-N4	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					160	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	360	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	200
B-N4 - N4 125-250	150	125	140	470	250	355	235	268	200	150	400	315	80	18	32	340	140	150	129
B-N4 - N4 125-315					280	400	247	278										217	189
B-N4 - N4 125-400					315	400	280	305										255	222
B-N4 - N4 150-315					280	400	256	307										211	192
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

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.