50 Hz

e-NSC Series

HORIZONTAL CENTRIFUGAL ELECTRIC PUMPS
EQUIPPED WITH IE3 MOTORS

ErP 2009/125/EC

Cod. 191002951 Rev. F Ed.03/2016

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e-NSC SERIES
IDENTIFICATION CODE

Pump Type [3 digits]
[NSC] = series name

Coupling [1 digit]
[ ] = bare shaft
[E]= extended shaft
[S] = stub shaft
[F] = frame mounted
[C] = spacer coupling frame mounted
[2] = two impellers extended shaft

Motor operation [1 digit]
[ ] = standard asynchronous motor
[H] = equipped with Hydrovar
[X] = other drives

Size of the pump [6 to 7 digits]
Discharge diameter - nominal impeller diameter
e.g. 32-160, 100-315

Motor power [2 to 4 digits]
kW x 10
or
D + actual impeller medium diameter (mm) (bare shaft version)

Special trimmed Impeller [1 digit]
[A or B] = Trimmed medium diameter that doesn t maximize motor power
[X] = Trimmed medium diameter to meet customer required duty point

Motor type [2 digits]
[/P] = PLM
[/S] = SM
[/W] = Weg
[/X] = Other

N° poles [1 digit]
[2] = 2 poles
[4] = 4 poles

Electrical Voltage + Frequency [2digits]
50 Hz
5H = 1x220-240 V
5R = 3x220-240/380-415 V
5V = 3x380-415/660-690 V
5P = 3x200-208/346-360 V
5S = 3x255-265/440-460 V
5T = 3x290-300/500-525 V
5W = 3x440-460/- V

60 Hz
6F = 1x220-230 V
6E = 1x200-210 V
6P = 3x220-230/380-400 V
6R = 3x255-277/440-480 V
6V = 3x440-480/- V
6U = 3x380-400/660-690 V
6N = 3x200-208/346-360 V
6T = 3x330-346/575-600 V

Mech Seal + Oring Config [1 digit]
[4] = SiC/Carbon/EPDM
[2] = SiC/Carbon/FKM*
[Z] = SiC/SiC/EPDM
[W] = SiC/SiC/FKM*
[L..] = Tungsten Carbide/ Metal-impreg. carbon/EPDM
[U..] = Tungsten Carbide/ Metal-impreg. carbon/FKM*

Impeller Material [1 digit]
[C] = Cast Iron
[S] = Fabricated Stainless Steel
[B] = Bronze
[N] = Cast Stainless Steel (1.4408)
[R] = Duplex (1.4517)

Casing Material [1 digit]
[C] = Cast Iron
[D] = Ductile Iron
[N] = Stainless Steel (1.4408)
[R] = Duplex (1.4517)

* FPM (old ISO), FKM (ASTM & new ISO)

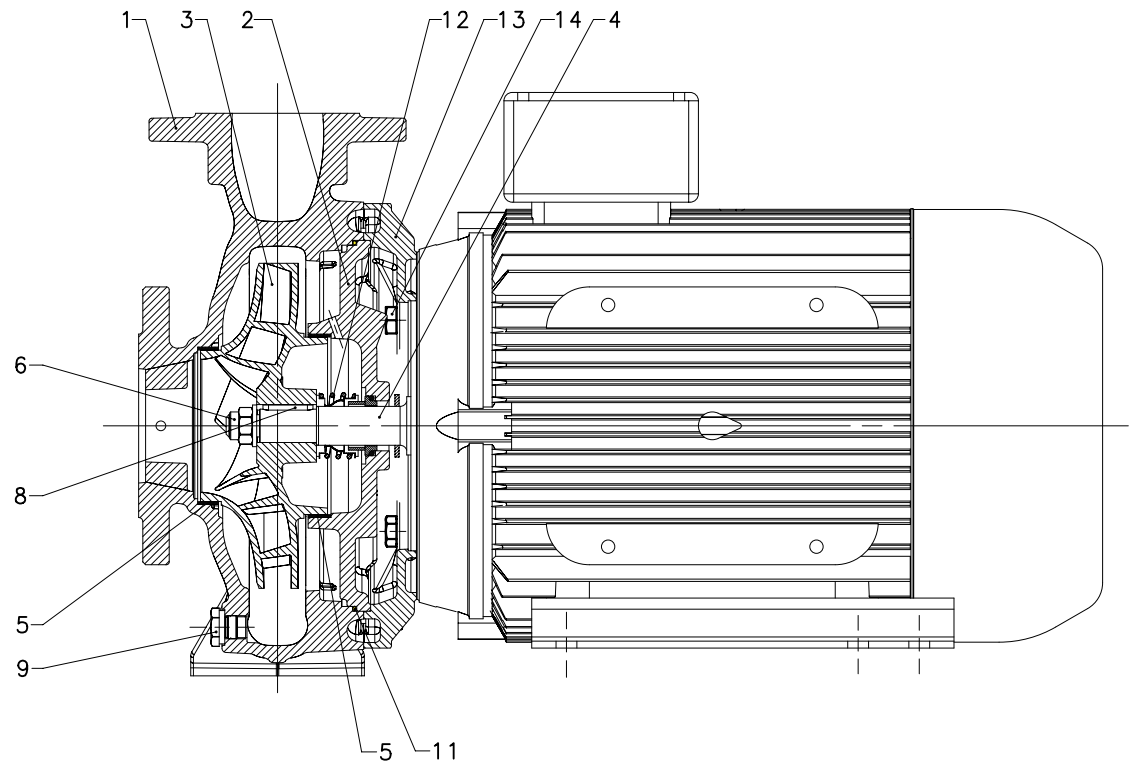
EXAMPLES

NSCS 100-250/900/W25RCC4
End-suction, electric pump with stub shaft coupling, DN 100 nominal discharge port, 250 mm nominal impeller diameter, 90 kW rated motor power,WEG IE3 model, 2-pole, 50 Hz 220-240/380-415 V, cast iron casing, cast iron impeller, Silicon carbide/Carbon/EPDM mechanical seal.

NSCF 150-400/1100A/W45VCC4
End-suction, electric pump with frame mounted coupling, DN 150 nominal discharge port, 400 mm nominal impeller diameter, 110 kW rated motor power, trimmed impeller, WEG IE3 model, 4-pole, 50 Hz 380-415/660-690 V, cast iron casing, cast iron impeller, Silicon carbide/Carbon/ EPDM mechanical seal.

NSC 150-400/D423CCZ
End-suction, bare shaft pump, DN 150 nominal discharge port, 400 mm nominal impeller diameter, 423 mm actual impeller medium diameter, cast iron casing, cast iron impeller, Silicon carbide/ Silicon carbide/EPDM mechanical seal.

NSCE SERIES
ELECTRIC PUMP CROSS-SECTION AND MAIN COMPONENTS



REF. N.	PART	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Volute casing	Cast iron	EN 1561 - GJL-250 (JL1040)	ASTM Class 35
2	Casing cover	Cast iron	EN 1561 - GJL-250 (JL1040)	ASTM Class 35
3	Impeller (32, 40, 50)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller (65, 80)	Cast iron	EN 1561 - GJL-200 (JL1030)	ASTM Class 30
	Impeller (65, 80)	Bronze	EN 1982 - CuSn10-C (CC480K)	UNS C90700
4	Shaft extension	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Wear ring	Stainless steel	EN 10088-X5CrNi18-10 (1.4301)	AISI 304
6	Impeller lock nut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller key	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
9	Fill and drain plugs	Nickel-plated brass	EN 12164-CuZn39Pb3 (CW614N)	-
11	O-Ring	EPDM (standard version)		
12	Mechanical seal	Carbon / Silicon carbide / EPDM (standard version)		
13	Motor adapter *	Aluminium	EN 1706-AC-AlSi11Cu2 (Fe) (AC46100)	-
	Motor adapter	Cast iron	EN 1561 - GJL-250 (JL1040)	ASTM Class 35
14	Volute casing fastening bolts and screws	Galvanized steel		

* 2/4 pole: 32/40/50-125, 32/40-160

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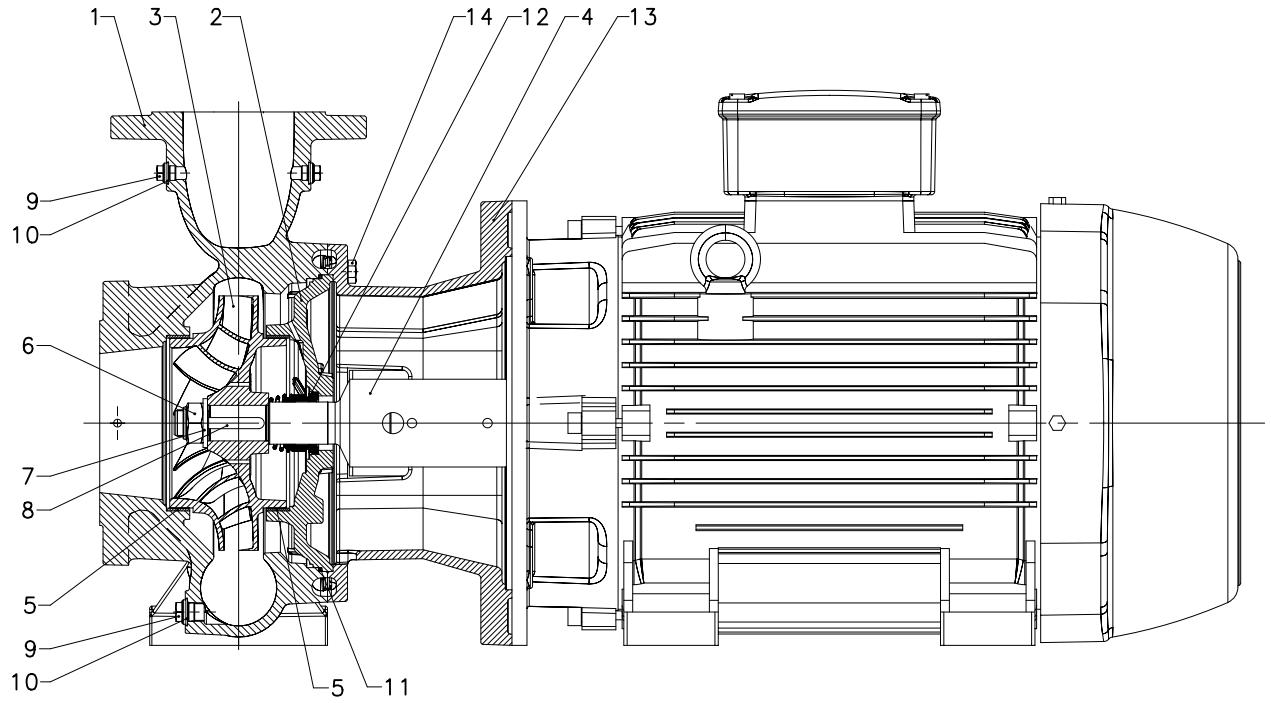
NSCS SERIES
ELECTRIC PUMP CROSS-SECTION AND MAIN COMPONENTS



PUMP SIZE					
50-315	65-315	80-316	80-315	80-400	100-160
100-200	100-250	100-315	100-400	125-200	125-250
125-315	125-400	150-200	150-250	150-315	150-400
200-250	200-315	250-315			

NSCS100-200_A_DS

REF. N.	PART	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Volute casing	Cast iron	EN 1561 - GJL-250 (JL1040)	ASTM Class 35
	Volute casing (200-250, 200-315, 250/315)	Cast ductile iron	EN 1563 - EN-GJS400-15 (EN-JS1030)	ASTM A536 40-60-18
2	Casing cover	Cast iron	EN 1561 - GJL-250 (JL1040)	ASTM Class 35
	Casing cover (200-250, 200-315, 250/315)	Cast ductile iron	EN 1563 - EN-GJS400-15 (EN-JS1030)	ASTM A536 40-60-18
3	Impeller	Cast iron	EN 1561 - GJL-200 (JL1030)	ASTM Class 30
	Impeller	Bronze	EN 1982 - CuSn10-C (CC480K)	UNS C90700
4	Stub shaft	Stainless steel	EN 10088 - X17CrNi16-2 (1.4057)	AISI 431
5	Wear ring	Stainless steel	EN 10088 - X5CrNi18-10 (1.4301)	AISI 304
6	Impeller nut	Stainless steel	A4 (~ 1.4401)	
7	Impeller washer	Stainless steel	A4 (~ 1.4401)	
8	Impeller key	Stainless steel	EN 10088 - X6CrNiMo17-12-2 (1.4571)	AISI 316Ti
9	Plug	Stainless steel	EN 10088 - X6CrNiMo17-12-2 (1.4571)	AISI 316Ti
10	Gasket	Asbestos-free synthetic fiber AFM 34		
11	O-Ring	EPDM (standard version)		
12	Mechanical seal	Carbon / Silicon carbide / EPDM (standard version)		
13	Motor adapter	Cast iron	EN 1561 - GJL-250 (JL1040)	ASTM Class 35
14	Volute - casing fastening screws	Carbon steel		

Nscs100-200-en_a_tm

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e-NSC SERIES PUMPS

With the Energy using Products (EuP 2005/32/EC) and Energy related Products (ErP 2009/125/EC) directives, the European Commission has established requirements for promoting the use of products with low power consumption.

The **Commission Regulation (EU) No 547/2012** has implemented two directives with regard to ecodesign requirements for **some types of clean water pumps** placed on the market and put into service inside EU zone as self-alone units or integrated in other products.

For end-suction close-coupled pumps (ESCC for the Regulation) and end-suction own-bearing pumps (ESOB for the Regulation) the efficiency assessment refers to:

- just the pump and not the pump and motor assembly (electric or combustion);
- pumps with just one impeller;
- pumps with a nominal pressure PN not higher than 16 bar (1600 kPa);
- pumps with a minimum nominal flow not less than 6 m^3/h;
- pumps with a maximum nominal power at the shaft not higher than 150 kW;
- pumps designed to operate at a speed of 2900 min^{-1} (for electric pumps this means 50 Hz 2-pole electric motors) and with a head not greater than 140 metres;
- pumps designed to operate at a speed of 1450 min^{-1} (for electric pumps this means 50 Hz 4-pole electric motors) and with a head not greater than 90 metres;
- use with clean water at a temperature ranging from -10°C to 120°C (the test is performed with cold water at a temperature not higher than 40°C).

According to the definitions established in the Regulation NSCE and NSCS versions correspond to the end-suction close-coupled pump while NSC, NSCF and NSCC versions correspond to the end-suction own bearing pump . This regulation states that water pumps shall have a minimum index MEI coming from a dedicated formula which considers hydraulic efficiency values at best efficiency point (BEP), 75 % of the flow at BEP (Part load PL) and 110 % of the flow at BEP (Over load OL).

The Regulation also establishes the following deadlines.

from	minimum efficiency index (MEI)
1st January 2013	MEI ≥ 0,1
1st January 2015	MEI ≥ 0,4

NSC2 models are out of the scope of the Regulation.

Regulation (EU) n. 547/2012 Annex II point 2 (Product information requirements)

1) Minimum efficiency index: see MEI values in specific tables on following page.
2) The benchmark for most efficient water pumps is MEI ≥ 0,70 .
3) Year of manufacture: 2014.
4) Manufacturer: Xylem Service Italia Srl - Reg. No 07520560967 - Montecchio Maggiore, Vicenza, Italy.
5) Product type: see the PUMP TYPE column in the tables in the *Hydraulic performance* section.
6) Hydraulic pump efficiency with trimmed impeller: see ηp and ØT columns in the tables in the *Hydraulic performance* section.
7) Pump performance curves, including the performance curve: see the *Operating Characteristics* graphs in the following pages.
8) The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter .
9) The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system .
10) Information relevant for disassembly, recycling or disposal at end-of-life: observe the current laws and by-laws governing sorted waste disposal. Consult the product operating manual.
11) Designed for use below 10 °C only : note not applicable to these products.
12) Designed for use above 120 °C only : note not applicable to these products.
13) Specific instructions for pumps as per points 11 and 12: not applicable to these products.
14) Information on benchmark efficiency is available at : www.europump.org (Ecodesign section).
15) The benchmark efficiency graphs with MEI = 0.7 and MEI = 0.4 are available at www.europump.org, Ecodesign,Efficiency charts (refer to ESCC 1450 rpm , ESCC 2900 rpm , ESOB 1450 rpm , ESOB 2900 rpm).

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e-NSC 100-125-150 SERIES
HYDRAULIC PERFORMANCE RANGE AT 50 Hz, 4 POLES

PUMP TYPE	P_N kW	Ø Impeller (mm) STD (1)	B (1)	○ ● (2)	ηp % (3)	Q = DELIVERY l/s 0	5,6	12,6	19,7	26,8	33,8	40,9	48,0	55,1	62,1	69,2	76,3	83,3
						m^3/h 0	20	45	71	96	122	147	173	198	224	249	275	300
						H = TOTAL HEAD METRES COLUMN OF WATER												
100-160/22A	2,2	144	144	○	75,9	5,9		5,9	5,6	4,9	3,7							
100-160/22	2,2	156	156	○	77,4	6,9		6,9	6,6	6,0	4,8	3,5						
100-160/30	3	176	176	○	81,5	9,1		9,0	8,8	8,1	7,0	5,6	4,0					
100-160/40	4	190	190	●	83,6	10,8		10,6	10,4	9,8	8,9	7,6	6,0					
100-200/40	4,0	197	197	○	82,6	12,2		12,1	11,8	11,0	9,6	7,5	5,1					
100-200/55	5,5	213	213	○	83,8	14,8		14,6	14,5	13,8	12,6	10,7	8,4					
100-200/75	7,5	227	227	●	84,3	16,9		16,7	16,5	15,9	14,8	13,1	11,0	8,4				
100-250/55	5,5	213	213	○	80,6	14,1		14,1	13,8	13,1	11,9	10,1	8,0					
100-250/75	7,5	237	237	○	83,1	17,8		17,9	17,7	17,2	16,2	14,6	12,5	10,1				
100-250/110	11	259	259	●	84,1	21,9		21,9	21,7	21,1	20,0	18,4	16,3	13,8				
100-315/110	11	260	260	○	78,9	23,5	23,5	23,4	23,1	22,4	21,1	19,2	16,5	12,6				
100-315/150	15	284	284	○	79,5	28,0		28,0	27,8	27,2	26,0	24,4	22,4	19,5				
100-315/185	18,5	298	298	○	79,9	31,1		31,0	30,9	30,3	29,3	27,8	26,1	23,8	20,4			
100-315/220	22	312	312	○	80,6	34,3		34,2	34,1	33,7	32,8	31,4	29,6	27,6	25,0			
100-315/300	30	334	334	●	80,8	40,2		40,1	40,1	39,7	38,8	37,6	36,0	34,0	31,5	28,2		
100-400/300	30	375	375	○	76,8	47,4		46,5	45,8	44,9	43,7	42,1	40,0	37,4	34,3	30,6		
100-400/370	37	397	397	○	77,1	54,4		53,3	52,5	51,6	50,4	48,9	47,1	44,8	42,0	38,6	34,7	
100-400/450	45	420	420	●	76,9	61,3		60,0	59,4	58,6	57,3	55,7	53,8	51,6	49,0	45,8	42,0	37,3

PUMP TYPE	P_N kW	Ø Impeller (mm) STD (1)	B (1)	○ ● (2)	ηp % (3)	Q = DELIVERY l/s 0	11,9	21,4	30,9	40,5	50,0	59,5	69,0	78,6	88,1	97,6	107,1	116,7
						m^3/h 0	43	77	111	146	180	214	249	283	317	351	386	420
						H = TOTAL HEAD METRES COLUMN OF WATER												
125-200/55	5,5	179	179	○	80,9	8,6		8,4	8,4	8,3	8,0	7,2	6,0					
125-200/75	7,5	204	204	○	83,5	11,9		11,8	11,8	11,6	11,2	10,3	9,0	7,5				
125-200/110	11	225	225	●	85,4	15,0		14,9	14,9	14,8	14,4	13,7	12,6	11,1	9,3			
125-250/75	7,5	210	210	○	84,5	13,6	13,5	13,4	13,3	12,9	12,1	10,6	8,6	6,3				
125-250/110	11	235	235	○	86,3	17,5		17,4	17,4	17,2	16,6	15,3	13,5	11,3	9,2			
125-250/150	15	259	259	●	88,3	22,0		21,7	21,7	21,5	21,0	20,0	18,5	16,5	14,1	11,6		
125-315/185	18,5	277	277	○	83,7	25,6		25,7	25,6	25,3	24,4	22,8	20,1	16,4	11,9	7,3		
125-315/220	22	290	290	○	84,3	28,3		28,6	28,5	28,2	27,5	26,1	23,8	20,7	16,6			
125-315/300	30	315	315	○	85,4	34,8		35,1	35,0	34,8	34,1	33,0	31,4	29,1	26,0	22,1		
125-315/370	37	334	334	●	86,4	39,6		39,8	39,9	39,7	39,2	38,2	36,8	34,8	32,1	28,7	24,6	
125-400/370	37	353	353	○	78,0	43,4		43,9	43,8	43,2	41,9	39,9	37,0	33,0	28,0			
125-400/450	45	374	374	○	78,8	48,7		49,4	49,6	49,3	48,3	46,4	43,7	40,0	35,4	30,0		
125-400/550	55	394	394	○	79,1	54,4		55,6	55,8	55,5	54,6	53,0	50,7	47,6	43,6	38,7		
125-400/750	75	422	422	●	79,9	63,4		64,8	64,7	64,2	63,3	61,8	59,8	57,1	53,8	49,8	45,0	39,3

PUMP TYPE	P_N kW	Ø Impeller (mm) STD (1)	B (1)	○ ● (2)	ηp % (3)	Q = DELIVERY l/s 0	16,7	33,8	51,0	68,2	85,4	102,5	119,7	###	154,0	171,2	188,4	205,6
						m^3/h 0	60	122	184	245	307	369	431	493	555	616	678	740
						H = TOTAL HEAD METRES COLUMN OF WATER												
150-200/110A	11	200	200	○	78,8	11,8		11,3	10,5	9,4	8,3	7,0	5,4					
150-200/110	11	217	217	○	80,7	14,0		13,4	12,5	11,4	10,1	8,7	7,0	4,9				
150-200/150A	15	227	227	○	82,0	15,2		14,5	13,8	12,9	11,7	10,2	8,4	6,4				
150-200/150	15	237	237	●	83,9	16,3		15,6	15,1	14,4	13,4	12,0	10,3	8,2				
150-250/150	15	238	238	○	80,3	17,2	17,0	16,7	16,1	15,1	13,7	11,6	9,1					
150-250/185	18,5	253	253	○	82,7	19,8		19,1	18,7	17,9	16,6	14,8	12,4	9,5				
150-250/220	22	265	265	○	84,6	22,1		21,4	21,0	20,4	19,3	17,6	15,4	12,6				
150-250/300	30	282	282	●	86,2	26,4		25,3	24,7	23,9	22,9	21,5	19,6	17,3	14,4			
150-315/300	30	291	291	○	84,2	27,7		27,7	27,6	27,0	25,7	23,5	20,4	16,5				
150-315/370	37	310	310	○	85,1	31,9		31,8	31,6	31,1	30,0	28,1	25,3	21,5	17,1			
150-315/450	45	330	330	●	86,3	36,6		36,2	36,1	35,7	34,7	32,9	30,4	27,2	23,2			
150-400/450	45	327	327	○	81,8	36,7		36,9	36,6	35,6	34,0	31,7	28,6	24,6				
150-400/550	55	346	346	○	84,4	41,2		41,6	41,5	40,9	39,5	37,5	34,6	30,9	26,3			
150-400/750	75	377	377	○	84,9	50,3		50,8	50,9	50,4	49,1	47,0	44,4	41,3	37,7	33,3		
150-400/900	90	398	398	○	85,3	56,5		56,9	57,0	56,5	55,5	53,7	51,4	48,5	45,1	41,0		
150-400/1100	110	423	423	●	85,5	63,9		64,4	64,3	63,9	63,0	61,5	59,4	56,6	53,2	49,1	44,4	
150-500/900	90	420	420	○	75,1	60,9		61,6	61,8	61,1	59,0	55,2	49,6	42,6	34,5			
150-500/1100	110	443	443	○	75,4	68,5		68,9	69,3	69,0	67,5	64,4	59,5	52,7	44,6	36,1		
150-500/1320	132	467	467	○	76,5	76,9		77,6	78,1	78,0	76,9	74,3	70,1	64,0	56,3	47,3		
150-500/1600	160	495	495	○	77,9	87,0		87,9	88,4	88,5	87,8	86,0	82,7	77,6	70,7	62,1	52,6	
150-500/2000	200	516	516	●	78,6	95,1		95,9	96,5	96,7	96,1	94,4	91,4	86,7	80,4	72,6	63,5	53,7

Hydraulic performances in compliance with ISO 9906:2012 - Grade 3B (ex ISO 9906:1999 - Annex A)

Nsc-100-150_4p50-en_c_th

(1) **STD** = Cast iron/Stainless steel - **B** = Bronze (2) ● = Full impeller diameter - **O** = Trimmed impeller diameter (3) Hydraulic efficiency of pump.

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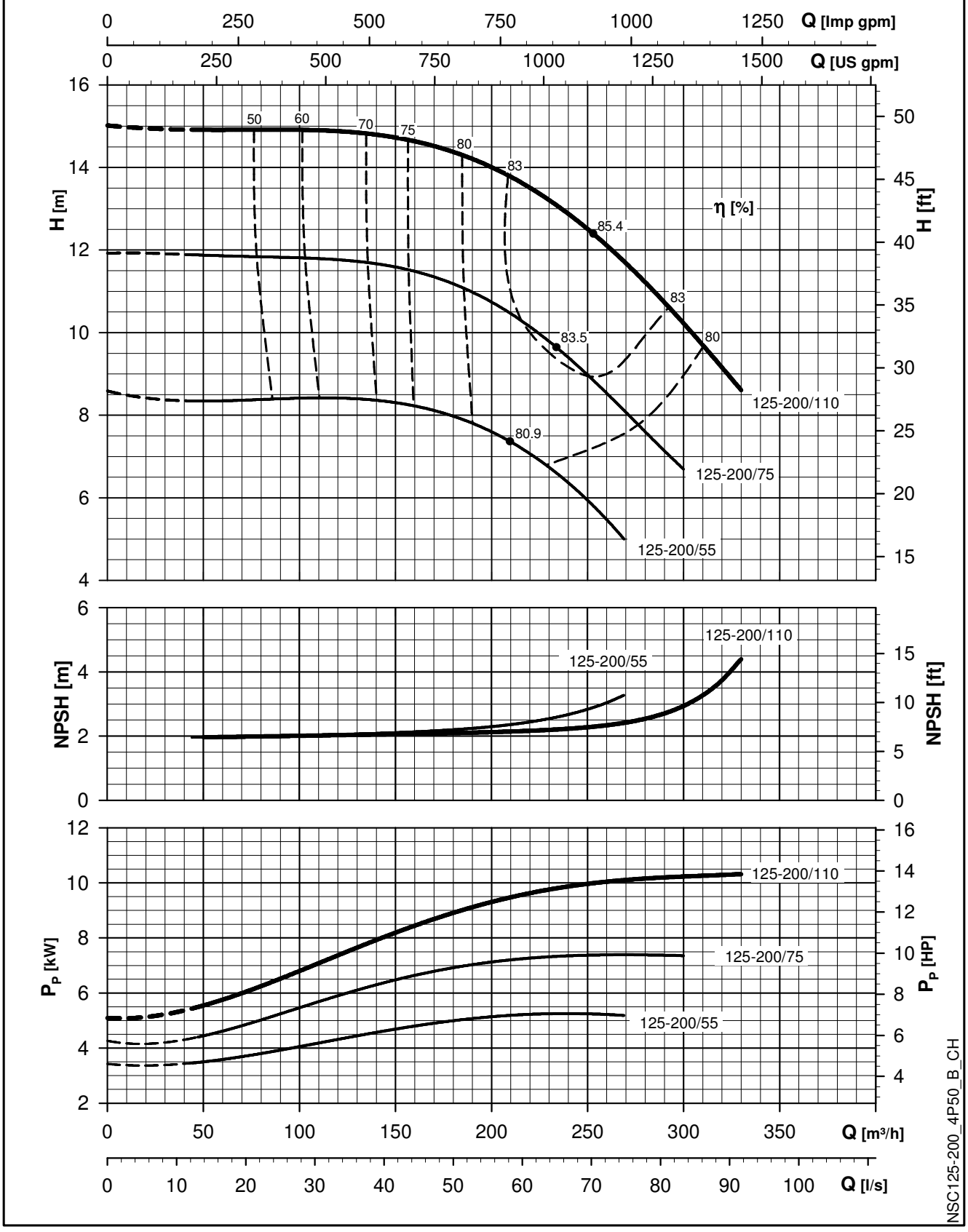
e-NSC SERIES
OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES

NSC 125-200	~ 1450 [rpm]	ISO 9906:2012 - Grade 3B



The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.
These performances are valid for liquids with density $\rho = 1,0$ Kg/dm³ and kinematic viscosity $\nu = 1$ mm²/sec.

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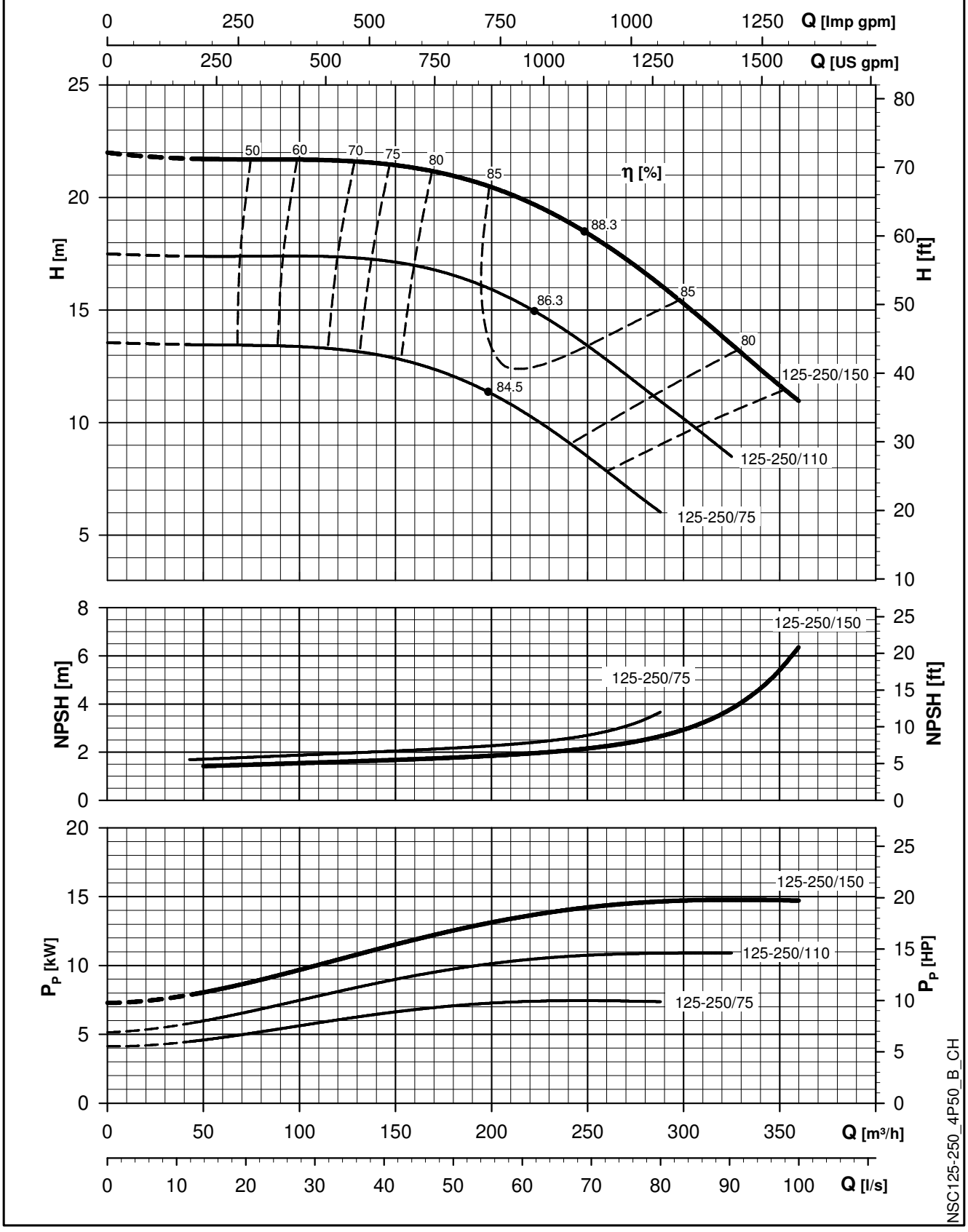
e-NSC SERIES
OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES

NSC 125-250	~ 1450 [rpm]	ISO 9906:2012 - Grade 3B



The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.
These performances are valid for liquids with density $\rho = 1,0$ Kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/sec.

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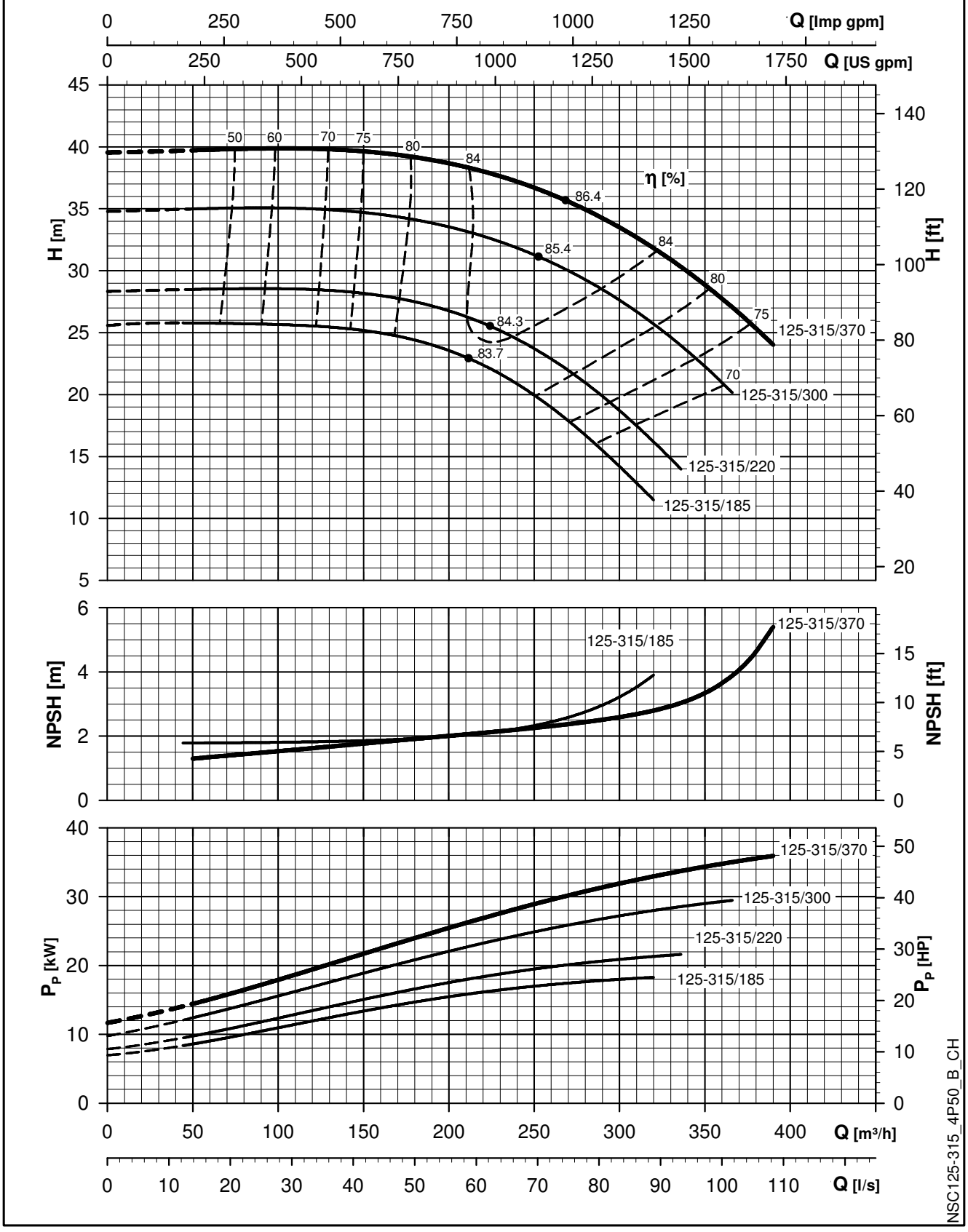
e-NSC SERIES
OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES

NSC 125-315	~ 1450 [rpm]	ISO 9906:2012 - Grade 3B



The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.
These performances are valid for liquids with density ρ = 1,0 Kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

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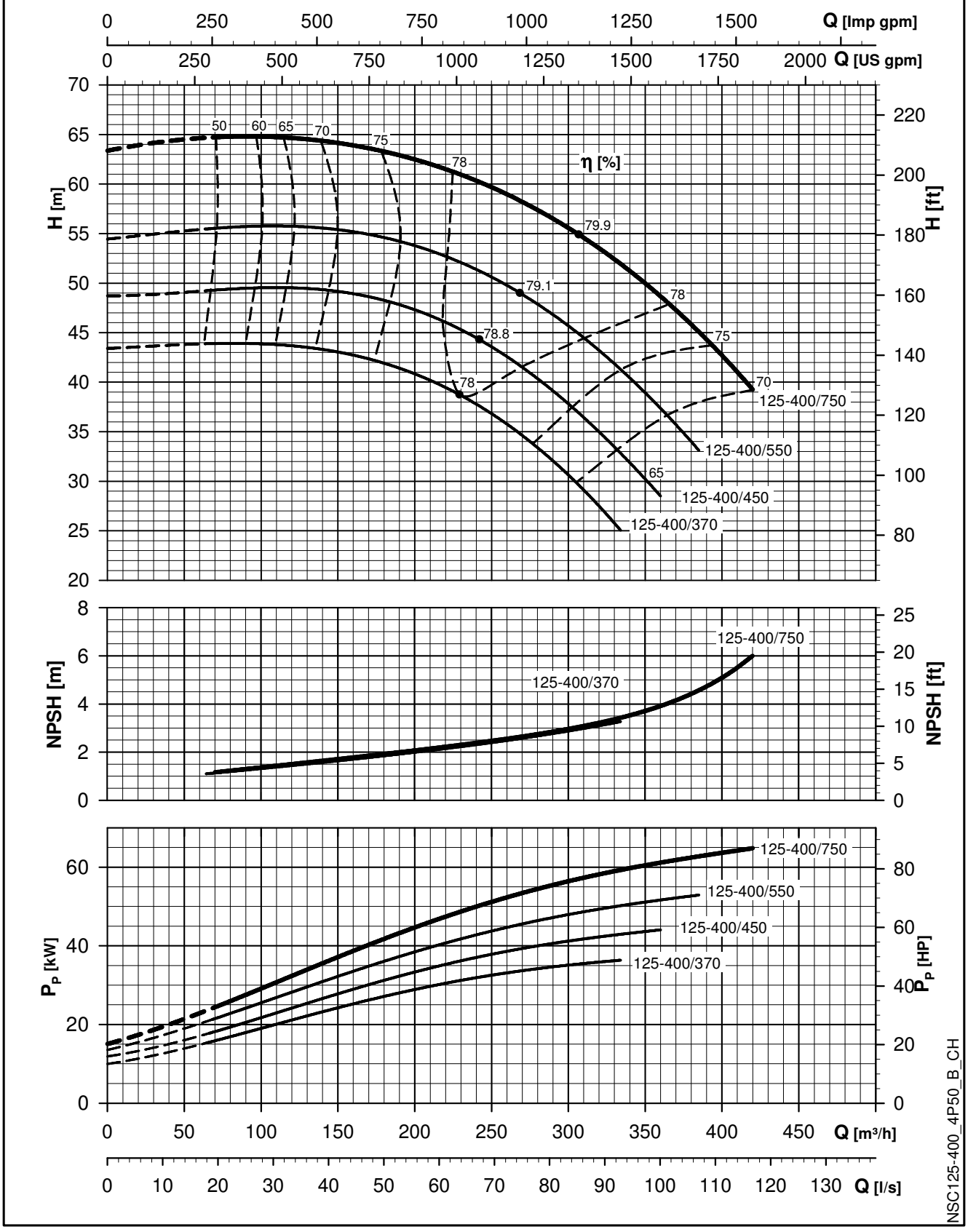
e-NSC SERIES
OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES

NSC 125-400	~ 1450 [rpm]	ISO 9906:2012 - Grade 3B



The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.
These performances are valid for liquids with density ρ = 1,0 Kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

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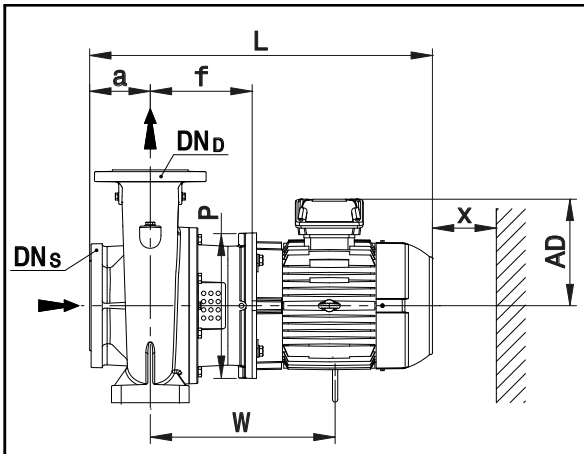
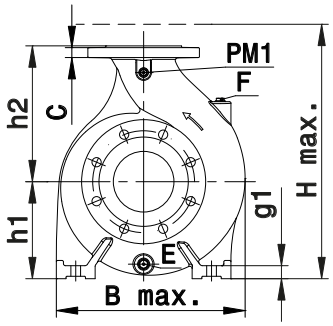
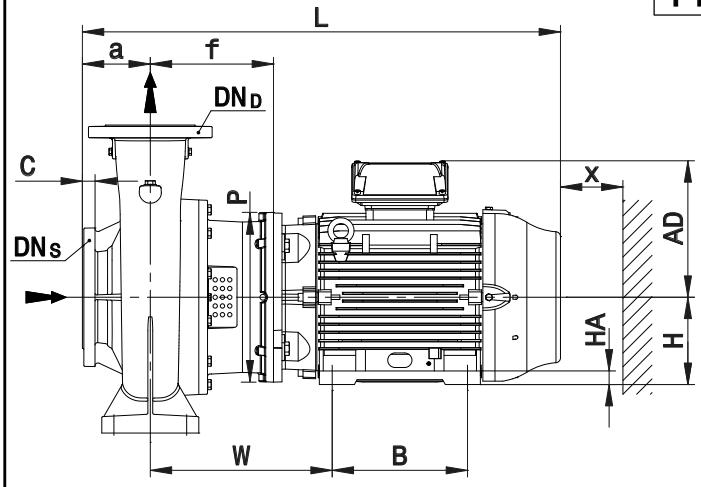
NSCS 100, 125, 150, 200, 250 SERIES
DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES

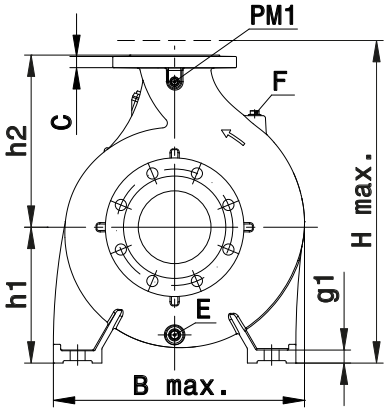
TYPE A





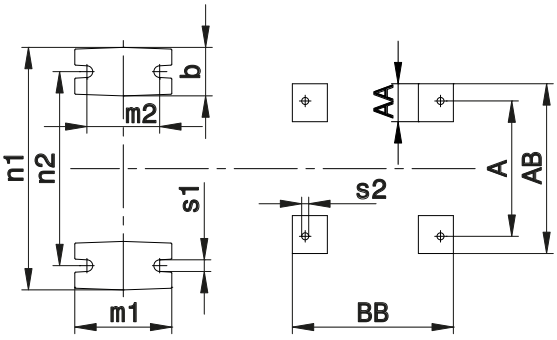
TYPE B



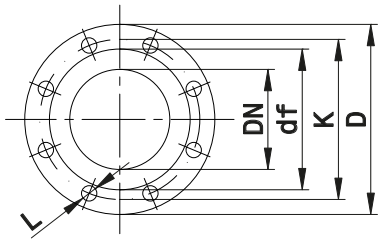


PM1..Pressure gauge connector
E....Drain
F....Filling
*)...Value C and D may vary from standard

Connections		
	$DN_D \leq 150$	$DN_D \geq 200$
PM1	1/4"	1/2"
E	3/8"	1/2"
F	3/8"	-



Flange



EN1092-2, PN 16 *)						ASME B16.5, Class 150 RF *)					
DN	D	K	C	df	L	DN	D	K	C	df	L
100	230	180	24	157	8x19	4	230	190,5	24	157	8x18
125	255	210	26	184	8x19	5	255	216	26	186	8x22
150	285	240	26	211	8x23	6	285	241,5	26	216	8x22
200	345	295	30	266	12x23	8	345	298,5	30	270	8x22
250	405	355	32	319	12x28	10	405	362	32	324	12x26
300	485	410	32	370	12x28	12	485	432	32	381	12x26

NSCS_4p-EN_C_DD

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NSCS 100, 125, 150, 200, 250 SERIES
DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES

PUMP TYPE NSCS..4	TYPE	DIMENSIONS (mm)																												WEIGHT
		PUMP																MOTOR									B	H		(kg)
		DNS	DND	a	b	f	g1	h1	h2	n1	n2	m1	m2	P	s1	W	x	A	AA	AB	AD	B	BB	H	HA	s2	max	max	L	G
100-160/22A/P	A	125	100	125	80	183	26	200	280	360	280	160	120	250	19	-	140	-	-	-	168	-	-	-	-	-	388	480	630	104
100-160/22/P	A	125	100	125	80	183	26	200	280	360	280	160	120	250	19	-	140	-	-	-	168	-	-	-	-	-	388	480	630	104
100-160/30/P	A	125	100	125	80	183	26	200	280	360	280	160	120	250	19	-	140	-	-	-	168	-	-	-	-	-	388	480	661	110
100-160/40/P	A	125	100	125	80	183	26	200	280	360	280	160	120	250	19	-	140	-	-	-	168	-	-	-	-	-	388	480	690	132
100-200/40/P	A	125	100	125	80	183	26	200	280	360	280	160	120	250	19	-	140	-	-	-	168	-	-	-	-	-	390	480	690	130
100-200/55/P	A	125	100	125	80	210	26	200	280	360	280	160	120	300	19	-	140	-	-	-	191	-	-	-	-	-	390	480	740	139
100-200/75/P	A	125	100	125	80	210	26	200	280	360	280	160	120	300	19	-	140	-	-	-	191	-	-	-	-	-	390	480	740	144
100-250/75/P	A	125	100	140	80	210	26	225	280	400	315	160	120	300	19	-	140	-	-	-	191	-	-	-	-	-	431	505	755	155
100-250/110/P	B	125	100	140	80	240	26	225	280	400	315	160	120	350	19	348	140	254	49	304	240	210	304	160	5	15	431	505	874	177
100-315/110/P	B	125	100	140	80	240	26	250	315	400	315	160	120	350	19	348	140	254	49	304	240	210	304	160	5	15	481	565	874	198
100-315/150/P	B	125	100	140	80	240	26	250	315	400	315	160	120	350	19	348	140	254	49	304	240	210	304	160	5	15	481	565	874	240
100-315/185/W	B	125	100	140	80	240	26	250	315	400	315	160	120	350	19	361	140	279	78	350	279	241	294	180	28	15	481	565	934	291
100-315/220/W	B	125	100	140	80	240	26	250	315	400	315	160	120	350	19	361	140	279	78	350	279	279	332	180	28	15	481	565	972	309
100-315/300/W	B	125	100	140	80	246	26	250	315	400	315	160	120	400	19	379	140	318	82	385	317	305	370	200	30	19	481	565	1042	358
100-400/300/W	B	125	100	140	100	254	26	280	355	500	400	200	150	400	23	387	140	318	82	385	317	305	370	200	30	19	569	635	1050	409
100-400/370/W	B	125	100	140	100	284	26	280	355	500	400	200	150	450	23	433	140	356	82	436	380	286	409	225	30	19	569	660	1170	567
100-400/450/W	B	125	100	140	100	284	26	280	355	500	400	200	150	450	23	433	140	356	82	436	380	311	409	225	30	19	569	660	1170	595
125-200/55/P	A	150	125	140	80	210	26	250	315	400	315	160	120	300	19	-	140	-	-	-	191	-	-	-	-	-	468	565	755	166
125-200/75/P	A	150	125	140	80	210	26	250	315	400	315	160	120	300	19	-	140	-	-	-	191	-	-	-	-	-	468	565	755	170
125-200/110/P	B	150	125	140	80	240	26	250	315	400	315	160	120	350	19	348	140	254	49	304	240	210	304	160	5	15	468	565	874	192
125-250/110/P	B	150	125	140	80	240	26	250	355	400	315	160	120	350	19	348	140	254	49	304	240	210	304	160	5	15	470	605	874	195
125-250/150/P	B	150	125	140	80	240	26	250	355	400	315	160	120	350	19	348	140	254	49	304	240	210	304	160	5	15	470	605	874	237
125-315/185/W	B	150	125	140	100	254	26	280	355	500	400	200	150	350	23	375	140	279	78	350	279	241	294	180	28	15	518	635	948	315
125-315/220/W	B	150	125	140	100	254	26	280	355	500	400	200	150	350	23	375	140	279	78	350	279	279	332	180	28	15	518	635	986	333
125-315/300/W	B	150	125	140	100	254	26	280	355	500	400	200	150	400	23	387	140	318	82	385	317	305	370	200	30	19	518	635	1051	379
125-315/370/W	B	150	125	140	100	284	26	280	355	500	400	200	150	450	23	433	140	356	80	436	384	286	412	225	34	19	518	664	1170	537
125-400/370/W	B	150	125	140	100	284	26	315	400	500	400	200	150	450	23	433	140	356	80	436	384	286	412	225	34	19	607	715	1170	585
125-400/450/W	B	150	125	140	100	284	26	315	400	500	400	200	150	450	23	433	140	356	80	436	384	311	412	225	34	19	607	715	1170	613
125-400/550/W	B	150	125	140	100	284	26	315	400	500	400	200	150	550	23	452	140	406	100	506	402	349	467	250	43	24	607	717	1249	709
125-400/750/W	B	150	125	140	100	284	26	315	400	500	400	200	150	550	23	474	140	457	100	557	472	368	517	280	42	24	607	787	1355	933
150-200/110A/P	B	200	150	160	100	240	26	280	400	550	450	200	150	350	23	348	140	254	49	304	240	210	304	160	5	15	602	680	894	248
150-200/110/P	B	200	150	160	100	240	26	280	400	550	450	200	150	350	23	348	140	254	49	304	240	210	304	160	5	15	602	680	894	248
150-200/150A/P	B	200	150	160	100	240	26	280	400	550	450	200	150	350	23	348	140	254	49	304	240	210	304	160	5	15	602	680	894	290
150-200/150/P	B	200	150	160	100	240	26	280	400	550	450	200	150	350	23	348	140	254	49	304	240	210	304	160	5	15	602	680	894	290
150-250/150/P	B	200	150	160	100	254	26	280	400	500	400	200	150	350	23	362	140	254	49	304	240	210	304	160	5	15	567	680	908	294
150-250/185/W	B	200	150	160	100	254	26	280	400	500	400	200	150	350	23	375	140	279	78	350	279	241	294	180	28	15	567	680	968	345
150-250/220/W	B	200	150	160	100	254	26	280	400	500	400	200	150	350	23	375	140	279	78	350	279	279	332	180	28	15	567	680	1006	363
150-250/300/W	B	200	150	160	100	254	26	280	400	500	400	200	150	400	23	387	140	318	82	385	317	305	370	200	30	19	567	680	1071	409
150-315/300/W	B	200	150	160	100	254	26	280	400	550	450	200	150	400	23	387	140	318	82	385	317	305	370	200	30	19	586	680	1071	406
150-315/370/W	B	200	150	160	100	284	26	280	400	550	450	200	150	450	23	433	140	356	80	436	384	286	412	225	34	19	586	680	1190	564
150-315/450/W	B	200	150	160	100	284	26	280	400	550	450	200	150	450	23	433	140	356	80	436	384	311	412	225	34	19	586	680	1190	592
150-400/450/W	B	200	150	160	100	284	26	315	450	550	450	200	150	450	23	433	140	356	80	436	384	311	412	225	34	19	622	765	1190	621
150-400/550/W	B	200	150	160	100	284	26	315	450	550	450	200	150	550	23	452	140	406	100	506	402	349	467	250	43	24	622	765	1269	738
150-400/750/W	B	200	150	160	100	284	26	315	450	550	450	200	150	550	23	474	140	457	100	557	472	368	517	280	42	24	622	787	1375	961
150-400/900/W	B	200	150	160	100	284	26	315	450	550	450	200	150	550	23	474	140	457	100	557	472	419	517	280	42	24	622	787	1375	1009
200-250/185/W	B	250	200	180	100	254	26	355	475	550	450	200	150	350	23	375	200	279	78	350	279	241	294	180	28	15	655	830	988	385
200-250/220/W	B	250	200	180	100	254	26	355	475	550	450	200	150	350	23	375	200	279	78	350	279	279	332	180	28	15	655	830	1026	403
200-250/300A/W	B	250	200	180	100	254	26	355	475	550	450	200	150	400	23	387	200	318	82	385	317	305	370	200	30	19	655	830	1091	449
200-250/300/W	B	250	200	180	100	254	26	355	475	550	450	200	150	400	23	387	200	318	82	385	317	305	370	200	30	19	655	830	1091	449
200-315/370/W	B	250	200	180	100	284	26	355	450	550	450	200	150	450	23	433	200	356	80	436	384	286	412	225	34	19	645	805	1210	607
200-315/450/W	B	250	200	180	100	284	26	355	450	550	450	200	150	450	23	433	200	356	80	436	384	311	412	225	34	19	645	805	1210	635
200-315/550/W	B	250	200	180	100	284	26	355	450	550	450	200	150	550	23	452	200	406	100	506	402	349	467	250	43	24	645	805	1289	731
200-315/750/W	B	250	200	180	100	284	26	355	450	550	450	200	150	550	23	474	200	457	100	557	472	368	517	280	42	24	645	827	1395	955
250-315/370/W	B	300	250	250	110	284	35	400	500	710	600	300	250	450	28	433	200	356	80	436	384	286	412	225	34	19	767	900	1280	701
250-315/450/W	B	300	250	250	110	284	35	400	500	710	600	300	250	450	28	433	200	356	80	436	384	311	412	225	34	19	767	900	1280	729
250-315/550/W	B	300	250	250	110	284	35	400	500	710	600	300	250	550	28	452	200	406	100	506	402	349	467	250	43	24	767	900	1359	826
250-315/750/W	B	300	250	250	110	284	35	400	500	710	600	300	250	550	28	474	200	457	100	557	472	368	517	280	42	24	767	900	1465	1050

For shims and supports see accessories section.

Nscs-100-250_4p50-en_c_td

NOTE: Pumps with flanges according to EN 1092-2 as standard; available ASME B16.5 version on request.