

**50 Hz**



## e-NSC Series

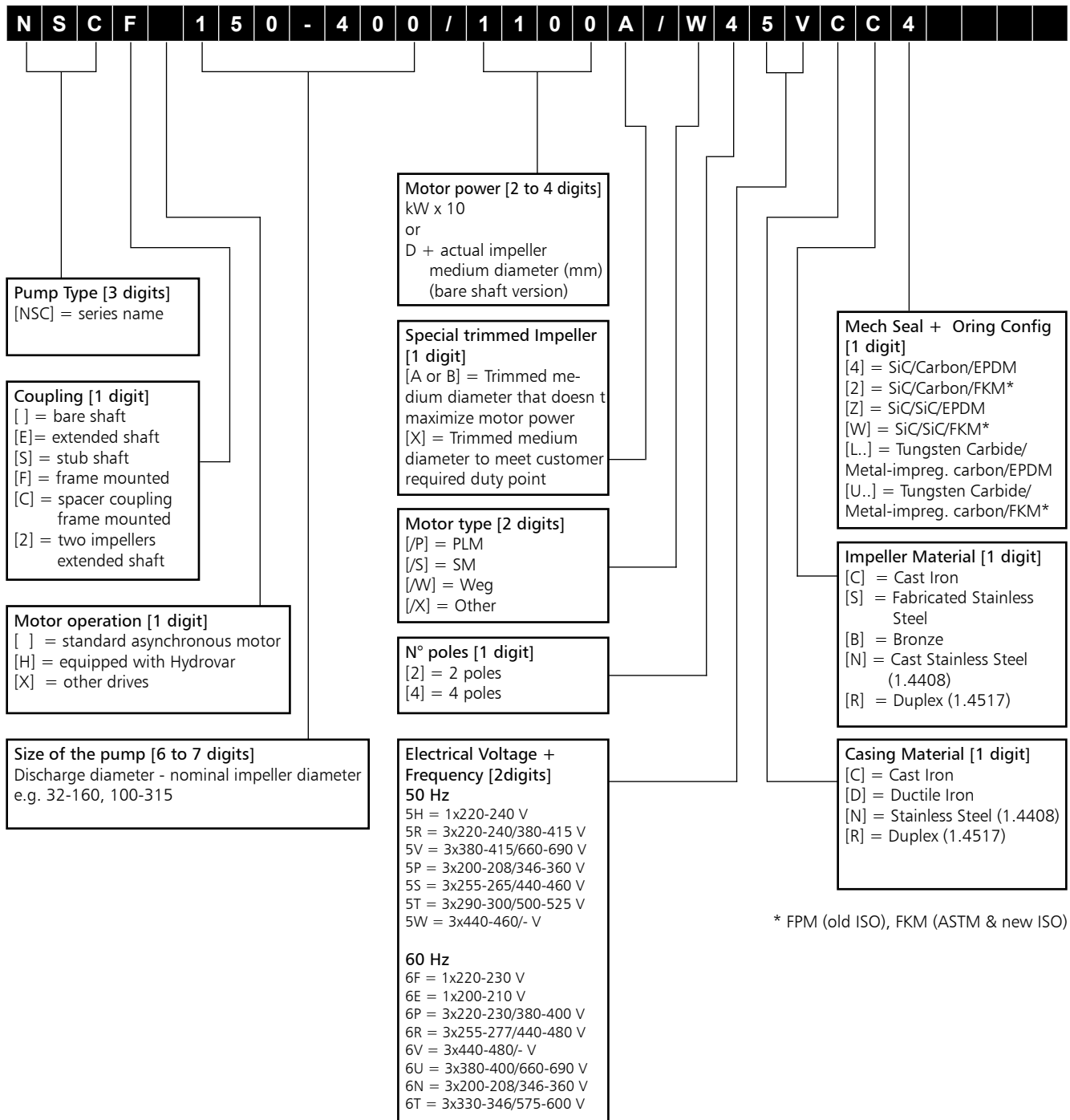
HORIZONTAL CENTRIFUGAL ELECTRIC PUMPS  
EQUIPPED WITH **IE3** MOTORS

**ErP 2009/125/EC**

Cod. 191002951 Rev. F Ed.03/2016

 **LOWARA**  
a xylem brand

**e-NSC SERIES  
IDENTIFICATION CODE**



\* 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.

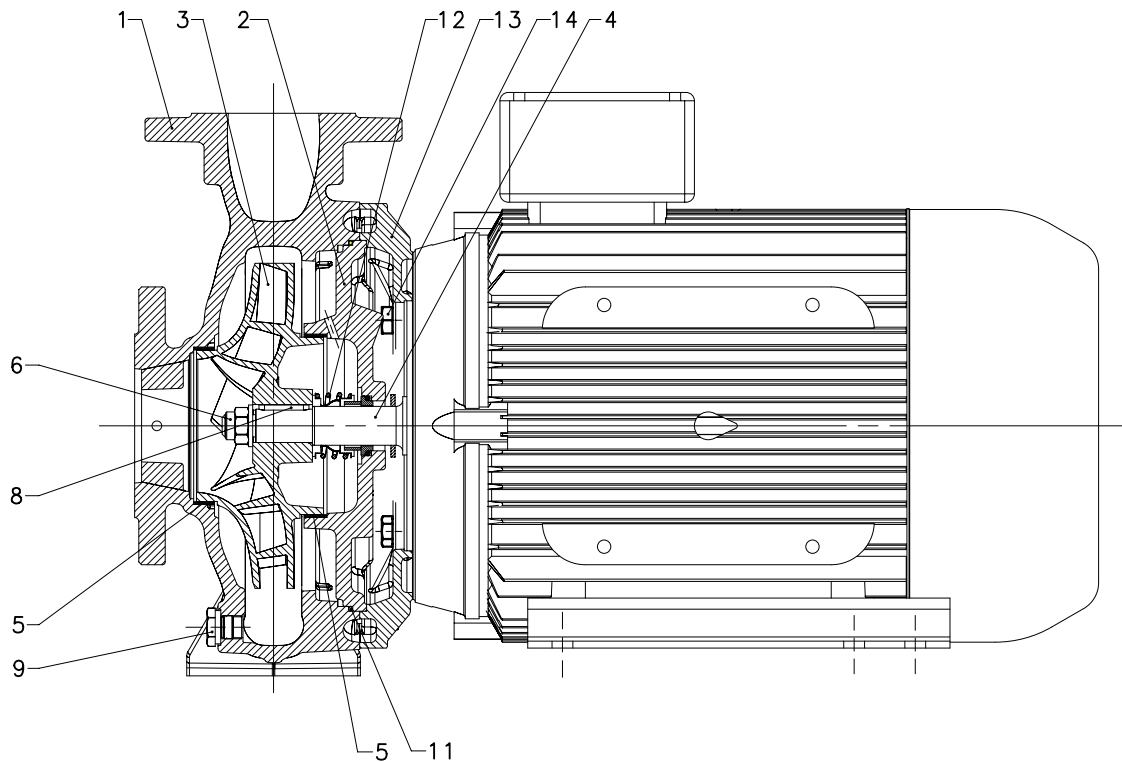
## NSCF 150-400/1100A/W45VCC4

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



NSCE\_A\_DS

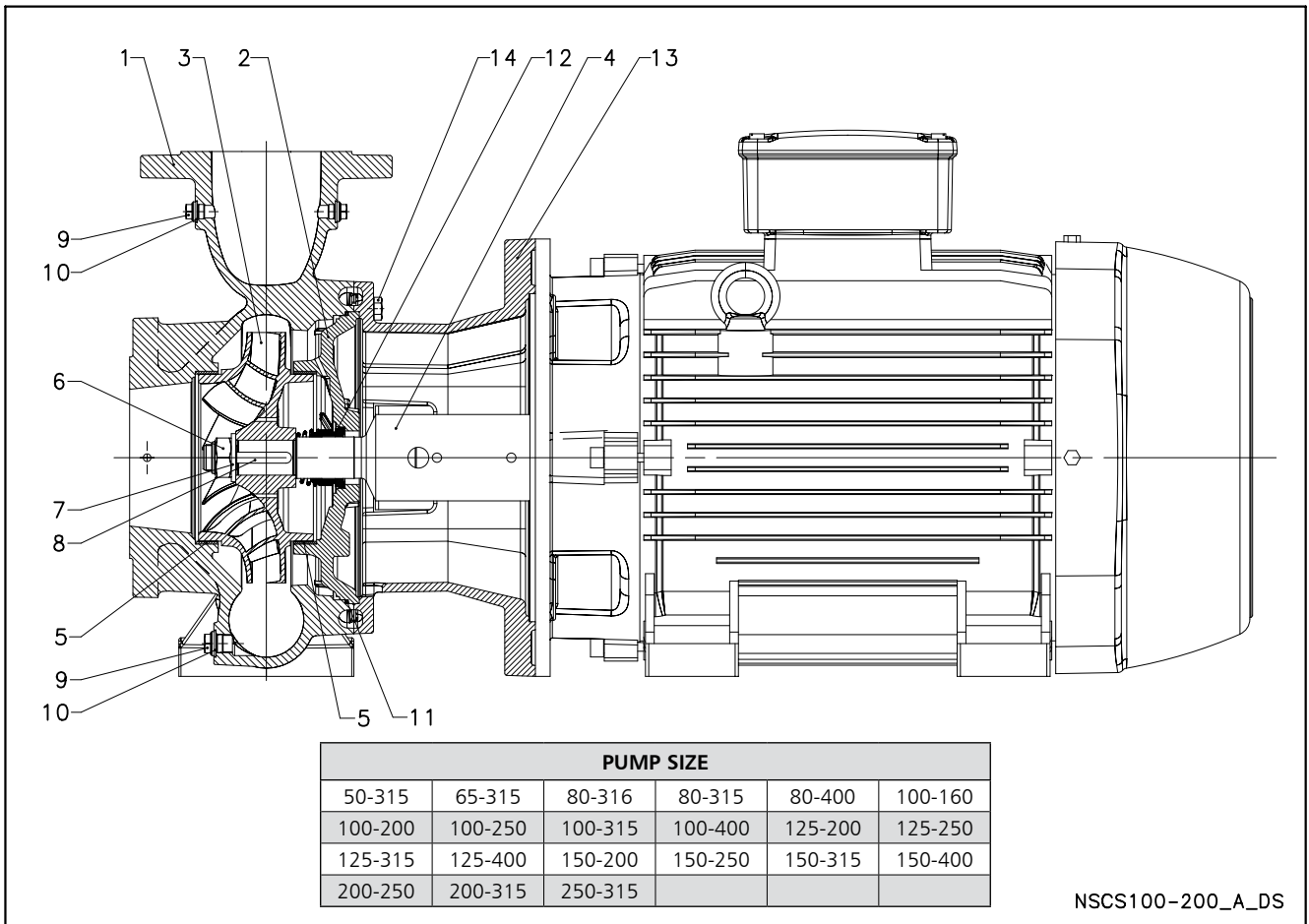
| REF.<br>N. | PART                                     | MATERIAL                                           | REFERENCE STANDARDS                 |               |
|------------|------------------------------------------|----------------------------------------------------|-------------------------------------|---------------|
|            |                                          |                                                    | 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-AISI11Cu2 (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

Nsce-en\_a\_tm

## NSCS SERIES

### ELECTRIC PUMP CROSS-SECTION AND MAIN COMPONENTS



| REF.<br>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

## 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<sup>3</sup>/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<sup>-1</sup> (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<sup>-1</sup> (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) |
|------------------------------|--------------------------------|
| 1 <sup>st</sup> January 2013 | MEI ≥ 0,1                      |
| 1 <sup>st</sup> 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  $\eta_p$  and  $\varnothing T$  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](http://www.europump.org) (Ecodesign section).
- 15) The benchmark efficiency graphs with MEI = 0.7 and MEI = 0.4 are available at [www.europump.org](http://www.europump.org), Ecodesign, Efficiency charts (refer to ESCC 1450 rpm , ESCC 2900 rpm , ESOB 1450 rpm , ESOB 2900 rpm ).

## e-NSC 65, 80 SERIES

### HYDRAULIC PERFORMANCE RANGE AT 50 Hz, 4 POLES

| PUMP<br>TYPE | P <sub>N</sub><br><br>kW | Ø Impeller (mm) |     |   |      | Q = DELIVERY                          |     |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------|--------------------------|-----------------|-----|---|------|---------------------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
|              |                          | STD             | B   | ● | ηp % | l/s                                   | 0   | 3,3  | 6,3  | 9,3  | 12,2 | 15,2 | 18,2 | 21,2 | 24,2 | 27,2 | 30,1 | 33,1 | 36,1 |
|              |                          |                 |     |   |      | m³/h                                  | 0   | 12   | 23   | 33   | 44   | 55   | 66   | 76   | 87   | 98   | 109  | 119  | 130  |
|              |                          |                 |     |   |      | H = TOTAL HEAD METRES COLUMN OF WATER |     |      |      |      |      |      |      |      |      |      |      |      |      |
| 65-125/05    | 0,55                     | 113             | 108 | ○ | 75,0 | 3,5                                   |     | 3,4  | 3,1  | 2,7  | 2,1  |      |      |      |      |      |      |      |      |
| 65-125/07    | 0,75                     | 127             | 121 | ○ | 77,0 | 4,9                                   |     | 4,7  | 4,4  | 3,9  | 3,2  | 2,4  |      |      |      |      |      |      |      |
| 65-125/11    | 1,1                      | 137             | 132 | ○ | 78,3 | 5,8                                   |     | 5,8  | 5,6  | 5,1  | 4,5  | 3,6  | 2,7  |      |      |      |      |      |      |
| 65-125/15    | 1,5                      | 148             | 144 | ● | 79,5 | 7,2                                   |     | 7,1  | 6,9  | 6,5  | 6,0  | 5,4  | 4,6  | 3,6  |      |      |      |      |      |
| 65-160/11A   | 1,1                      | 145             | 144 | ○ | 77,1 | 6,4                                   |     | 6,4  | 6,0  | 5,4  | 4,4  | 3,4  |      |      |      |      |      |      |      |
| 65-160/15B   | 1,5                      | 145             | 144 | ○ | 77,1 | 6,4                                   |     | 6,4  | 6,0  | 5,4  | 4,4  | 3,4  |      |      |      |      |      |      |      |
| 65-160/11    | 1,1                      | 151             | 152 | ○ | 78,0 | 7,2                                   |     | 7,0  | 6,7  | 6,1  | 5,2  | 4,1  |      |      |      |      |      |      |      |
| 65-160/15A   | 1,5                      | 151             | 152 | ○ | 78,0 | 7,2                                   |     | 7,0  | 6,7  | 6,1  | 5,2  | 4,1  |      |      |      |      |      |      |      |
| 65-160/15    | 1,5                      | 159             | 160 | ○ | 79,6 | 8,2                                   |     | 8,0  | 7,7  | 7,1  | 6,3  | 5,3  |      |      |      |      |      |      |      |
| 65-160/22A   | 2,2                      | 175             | 176 | ○ | 81,8 | 10,2                                  |     | 10,1 | 9,9  | 9,4  | 8,8  | 7,9  | 6,8  | 5,6  |      |      |      |      |      |
| 65-160/22    | 2,2                      | 180             | 180 | ● | 82,1 | 10,9                                  |     | 10,8 | 10,5 | 10,0 | 9,3  | 8,4  | 7,4  | 6,1  |      |      |      |      |      |
| 65-200/15    | 1,5                      | 165             | 162 | ○ | 73,1 | 8,9                                   | 8,9 | 8,7  | 8,2  | 7,2  | 5,7  |      |      |      |      |      |      |      |      |
| 65-200/22A   | 2,2                      | 177             | 177 | ○ | 74,6 | 10,6                                  |     | 10,5 | 10,0 | 9,2  | 7,8  | 6,0  |      |      |      |      |      |      |      |
| 65-200/22    | 2,2                      | 189             | 189 | ○ | 76,9 | 12,1                                  |     | 12,0 | 11,6 | 10,8 | 9,6  | 7,9  | 5,7  |      |      |      |      |      |      |
| 65-200/30    | 3                        | 199             | 199 | ○ | 78,0 | 13,6                                  |     | 13,6 | 13,2 | 12,6 | 11,5 | 9,9  | 7,8  |      |      |      |      |      |      |
| 65-200/40    | 4                        | 220             | 218 | ● | 80,0 | 17,0                                  |     | 16,9 | 16,7 | 16,1 | 15,3 | 14,1 | 12,5 | 10,3 |      |      |      |      |      |
| 65-250/30    | 3                        | 195             | 192 | ○ | 73,9 | 12,6                                  |     | 13,2 | 12,8 | 12,0 | 10,8 | 9,3  | 7,3  |      |      |      |      |      |      |
| 65-250/40    | 4                        | 215             | 213 | ○ | 74,3 | 15,7                                  |     | 16,2 | 15,8 | 15,1 | 14,1 | 12,7 | 11,0 | 8,9  |      |      |      |      |      |
| 65-250/55A   | 5,5                      | 229             | 226 | ○ | 76,0 | 18,1                                  |     | 19,0 | 18,7 | 18,1 | 17,3 | 16,1 | 14,6 | 12,8 | 10,5 |      |      |      |      |
| 65-250/55    | 5,5                      | 243             | 240 | ○ | 77,2 | 20,7                                  |     | 21,3 | 21,2 | 20,7 | 20,0 | 18,9 | 17,5 | 15,8 | 13,7 |      |      |      |      |
| 65-250/75    | 7,5                      | 258             | 255 | ● | 77,6 | 24,3                                  |     | 24,6 | 24,3 | 23,8 | 23,0 | 22,0 | 20,8 | 19,2 | 17,4 | 15,2 |      |      |      |
| 65-315/55    | 5,5                      | 260             | 260 | ○ | 68,1 | 22,7                                  |     | 22,4 | 21,7 | 20,8 | 19,6 | 18,0 | 15,7 | 12,7 |      |      |      |      |      |
| 65-315/75    | 7,5                      | 285             | 285 | ○ | 70,4 | 27,6                                  |     | 27,3 | 26,8 | 26,0 | 24,8 | 23,3 | 21,4 | 18,9 | 15,9 |      |      |      |      |
| 65-315/110   | 11                       | 315             | 315 | ○ | 71,4 | 34,7                                  |     | 34,5 | 34,0 | 33,3 | 32,3 | 31,0 | 29,3 | 27,2 | 24,6 | 21,4 | 17,3 |      |      |
| 65-315/150   | 15                       | 334             | 334 | ● | 72,2 | 39,0                                  |     | 38,9 | 38,5 | 37,8 | 36,8 | 35,5 | 33,9 | 32,0 | 29,7 | 27,0 | 23,8 | 20,3 |      |

| PUMP<br>TYPE | P <sub>N</sub><br><br>kW | Ø Impeller (mm) |     |   |      | Q = DELIVERY                          |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------|--------------------------|-----------------|-----|---|------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|              |                          | STD             | B   | ● | ηp % | l/s                                   | 0    | 5,6  | 10,7 | 15,7 | 20,8 | 25,8 | 30,9 | 35,9 | 40,9 | 46,0 | 51,0 | 56,1 | 61,1 |
|              |                          |                 |     |   |      | m³/h                                  | 0    | 20   | 38   | 57   | 75   | 93   | 111  | 129  | 147  | 166  | 184  | 202  | 220  |
|              |                          |                 |     |   |      | H = TOTAL HEAD METRES COLUMN OF WATER |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 80-160/15    | 1,5                      | 144             | 144 | ○ | 72,1 | 6,5                                   |      | 6,2  | 5,5  | 4,5  | 3,5  |      |      |      |      |      |      |      |      |
| 80-160/22A   | 2,2                      | 158             | 158 | ○ | 78,4 | 8,3                                   |      | 7,9  | 7,3  | 6,5  | 5,4  | 4,2  |      |      |      |      |      |      |      |
| 80-160/22    | 2,2                      | 168             | 168 | ○ | 79,0 | 9,3                                   |      | 9,0  | 8,5  | 7,6  | 6,5  | 5,2  | 3,8  |      |      |      |      |      |      |
| 80-160/30    | 3                        | 177             | 177 | ● | 81,2 | 10,5                                  |      | 10,2 | 9,8  | 9,0  | 8,0  | 6,7  | 5,3  |      |      |      |      |      |      |
| 80-200/30    | 3                        | 181             | 177 | ○ | 77,1 | 10,8                                  |      | 10,6 | 10,1 | 9,3  | 8,2  |      |      |      |      |      |      |      |      |
| 80-200/40    | 4                        | 195             | 192 | ○ | 79,7 | 12,8                                  |      | 12,7 | 12,4 | 11,6 | 10,4 | 8,9  |      |      |      |      |      |      |      |
| 80-200/55A   | 5,5                      | 208             | 204 | ○ | 82,0 | 15,0                                  |      | 14,9 | 14,5 | 13,9 | 12,8 | 11,3 |      |      |      |      |      |      |      |
| 80-200/55    | 5,5                      | 219             | 216 | ● | 82,5 | 16,9                                  |      | 16,5 | 16,2 | 15,6 | 14,7 | 13,5 | 11,8 |      |      |      |      |      |      |
| 80-250/55A   | 5,5                      | 214             | 211 | ○ | 80,0 | 16,4                                  |      | 16,0 | 15,4 | 14,4 | 13,1 | 11,3 | 9,1  | 6,5  |      |      |      |      |      |
| 80-250/55    | 5,5                      | 227             | 224 | ○ | 80,1 | 18,2                                  |      | 18,2 | 17,6 | 16,6 | 15,3 | 13,5 |      |      |      |      |      |      |      |
| 80-250/75    | 7,5                      | 241             | 238 | ○ | 80,8 | 21,0                                  |      | 20,7 | 20,2 | 19,4 | 18,1 | 16,4 | 14,4 |      |      |      |      |      |      |
| 80-250/110   | 11                       | 259             | 256 | ● | 82,2 | 24,1                                  |      | 23,9 | 23,7 | 23,2 | 22,2 | 20,8 | 19,0 | 16,7 |      |      |      |      |      |
| 80-315/110A  | 11                       | 262             | 262 | ○ | 75,8 | 23,1                                  |      | 23,1 | 22,7 | 21,9 | 20,4 | 18,4 | 15,8 | 12,8 | 9,6  |      |      |      |      |
| 80-315/110   | 11                       | 280             | 280 | ○ | 76,0 | 26,6                                  |      | 26,6 | 26,4 | 25,7 | 24,5 | 22,8 | 20,4 | 17,5 |      |      |      |      |      |
| 80-315/150   | 15                       | 304             | 304 | ○ | 76,9 | 31,6                                  |      | 31,7 | 31,6 | 31,2 | 30,3 | 28,9 | 26,8 | 24,3 | 21,2 |      |      |      |      |
| 80-315/185   | 18,5                     | 321             | 321 | ○ | 77,2 | 35,5                                  |      | 35,6 | 35,5 | 35,2 | 34,4 | 33,2 | 31,4 | 29,1 | 26,2 | 22,7 |      |      |      |
| 80-315/220   | 22                       | 334             | 334 | ● | 77,8 | 38,6                                  |      | 38,7 | 38,6 | 38,3 | 37,6 | 36,4 | 34,8 | 32,7 | 30,0 | 26,7 |      |      |      |
| 80-400/185   | 18,5                     | 338             | 338 | ○ | 69,9 | 39,1                                  |      | 39,0 | 38,2 | 37,0 | 35,3 | 33,3 | 30,6 | 27,0 | 22,0 | 15,0 | 5,1  |      |      |
| 80-400/220   | 22                       | 356             | 356 | ○ | 71,3 | 43,8                                  | 44,0 | 43,8 | 43,2 | 42,0 | 40,4 | 38,4 | 36,1 | 33,1 | 29,1 |      |      |      |      |
| 80-400/300   | 30                       | 388             | 388 | ○ | 72,5 | 53,1                                  |      | 52,8 | 52,6 | 51,7 | 50,2 | 48,3 | 46,1 | 43,7 | 40,8 |      |      |      |      |
| 80-400/370   | 37                       | 418             | 418 | ● | 73,8 | 62,6                                  |      | 61,9 | 61,7 | 61,0 | 59,7 | 57,9 | 55,9 | 53,5 | 50,9 | 47,8 |      |      |      |

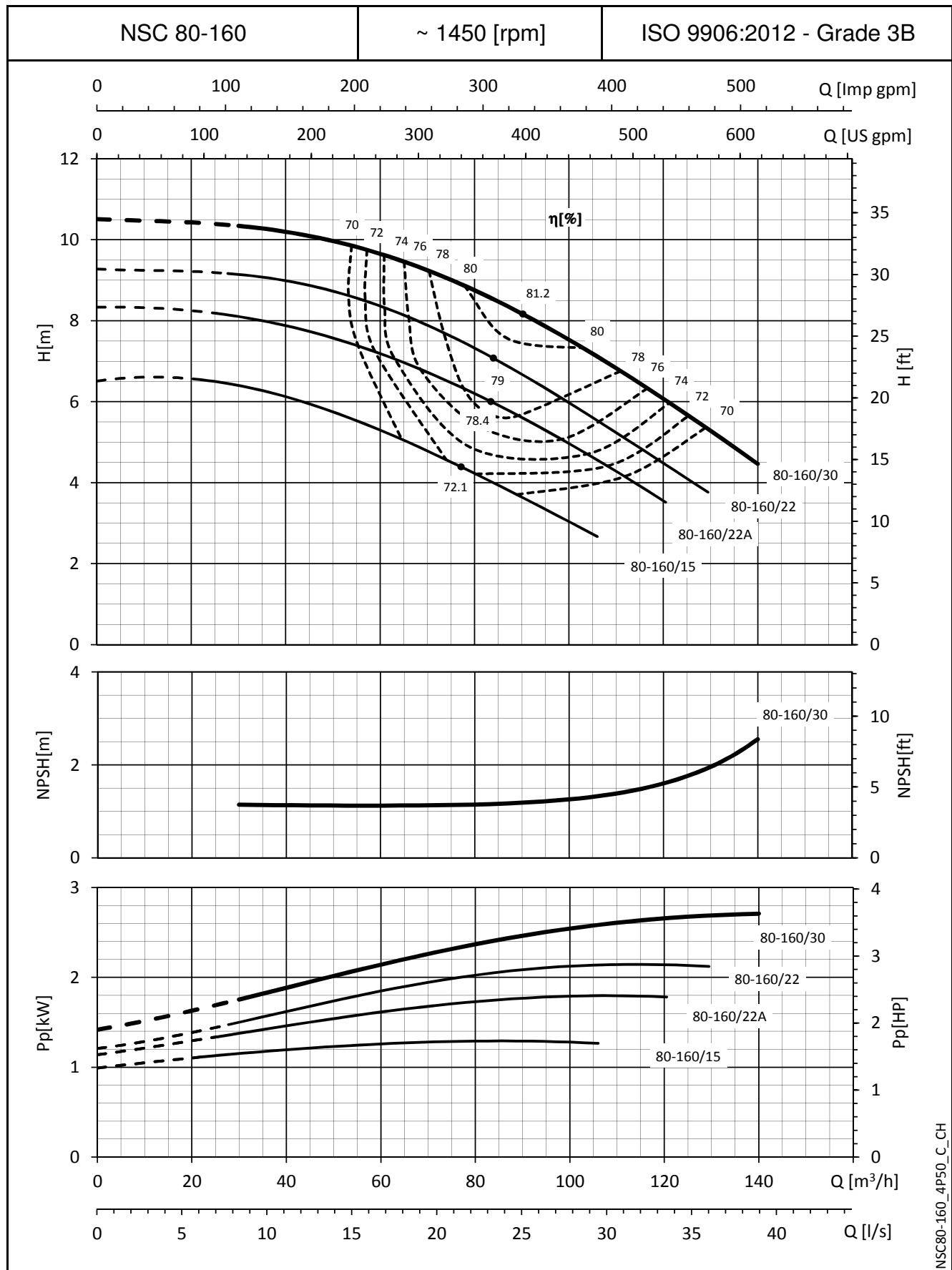
Hydraulic performances in compliance with ISO 9906:2012 - Grade 3B (ex ISO 9906:1999 - Annex A)

Nsc-65-80\_4p50-en\_c\_th

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

**e-NSC SERIES**

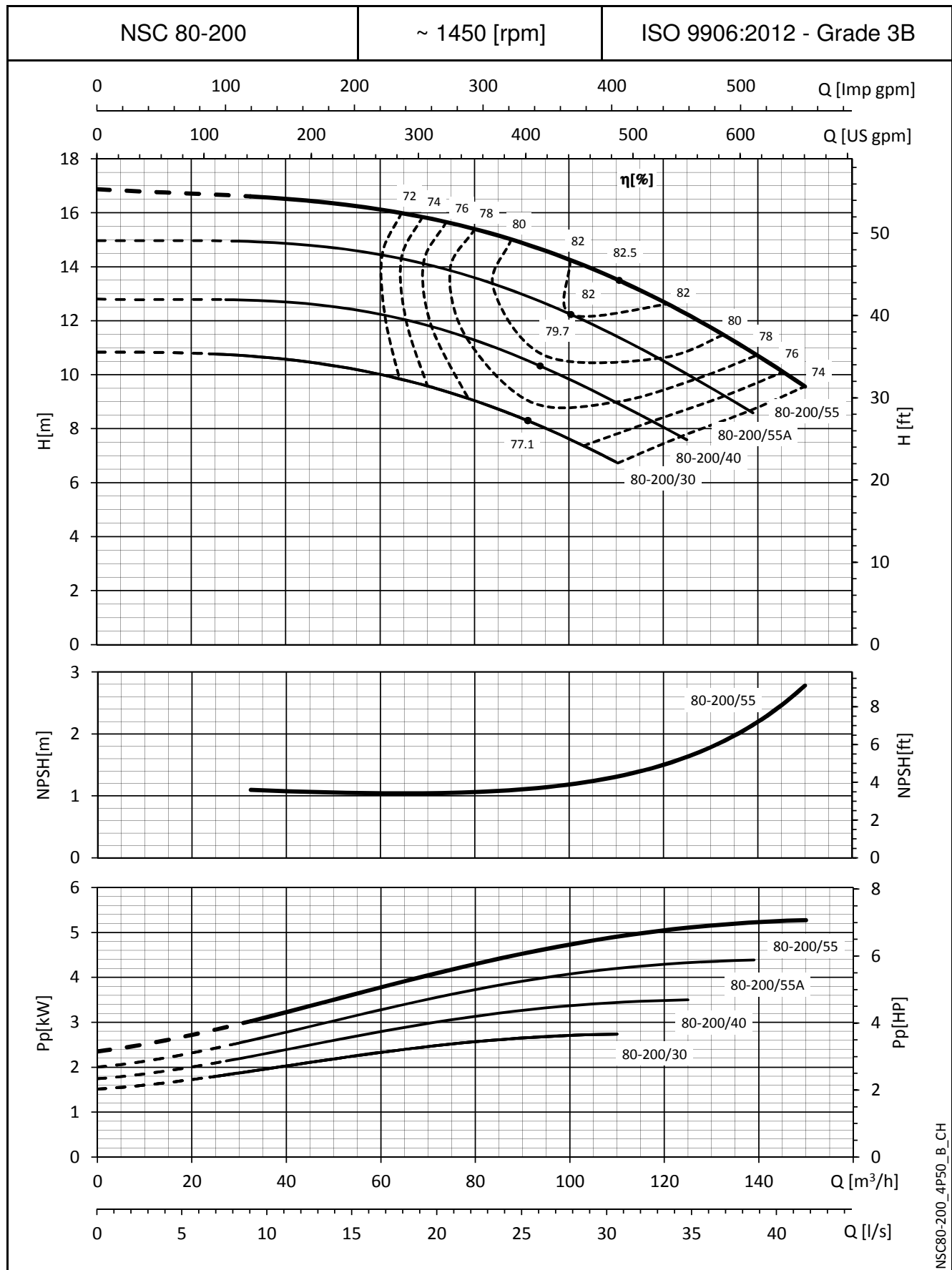
**OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES**



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  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

**e-NSC SERIES**

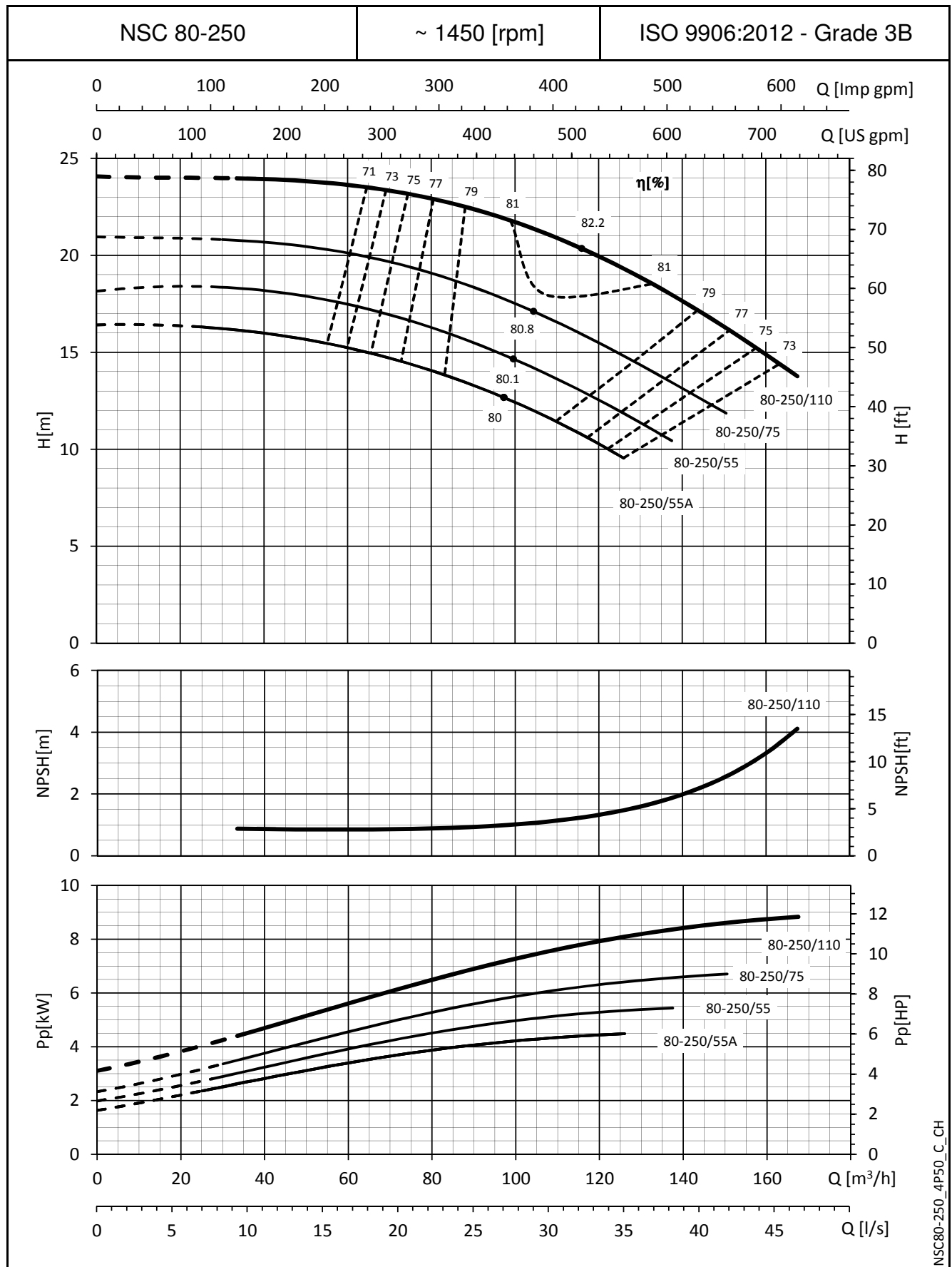
**OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES**



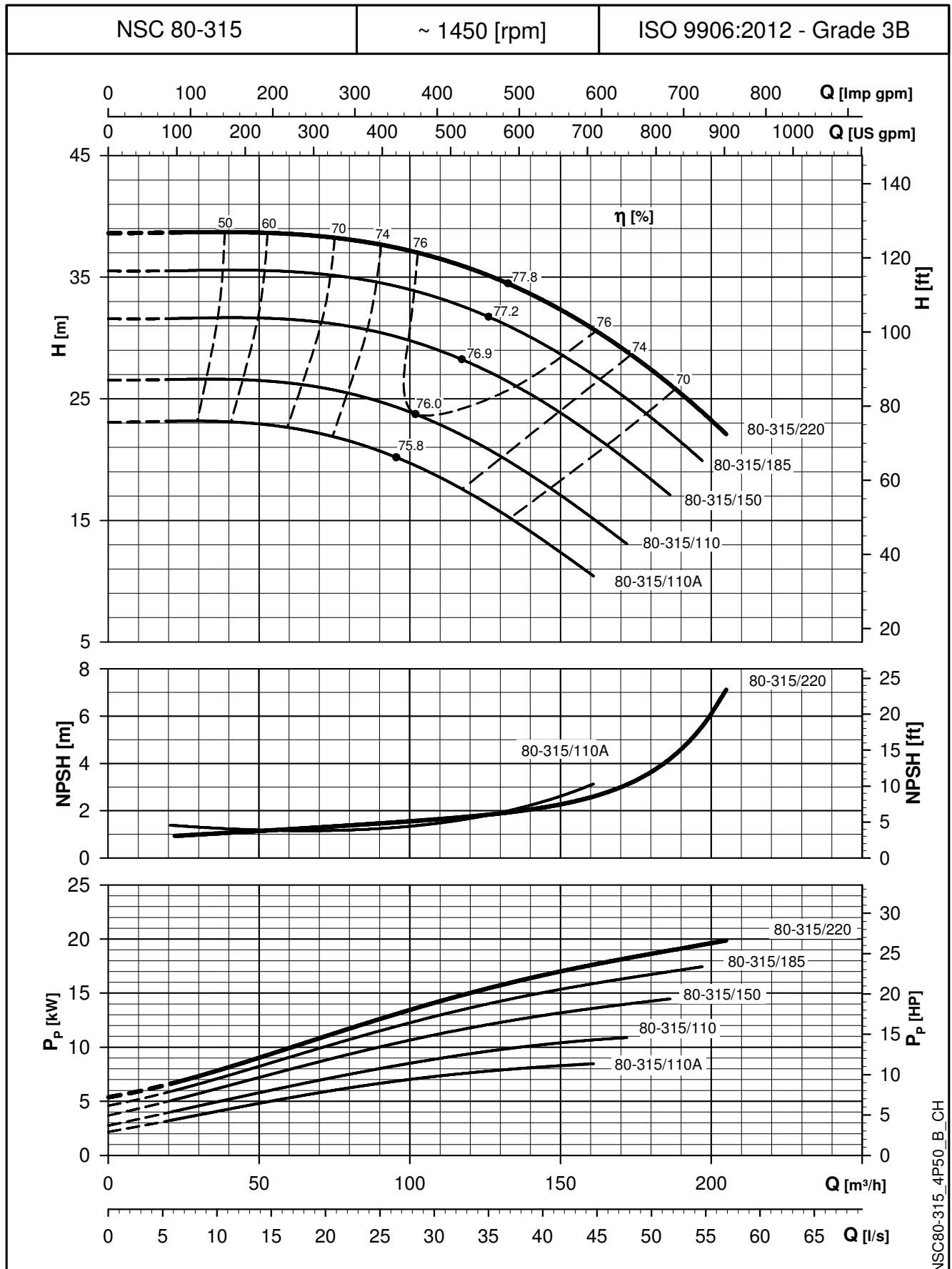
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

**e-NSC SERIES**

**OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES**



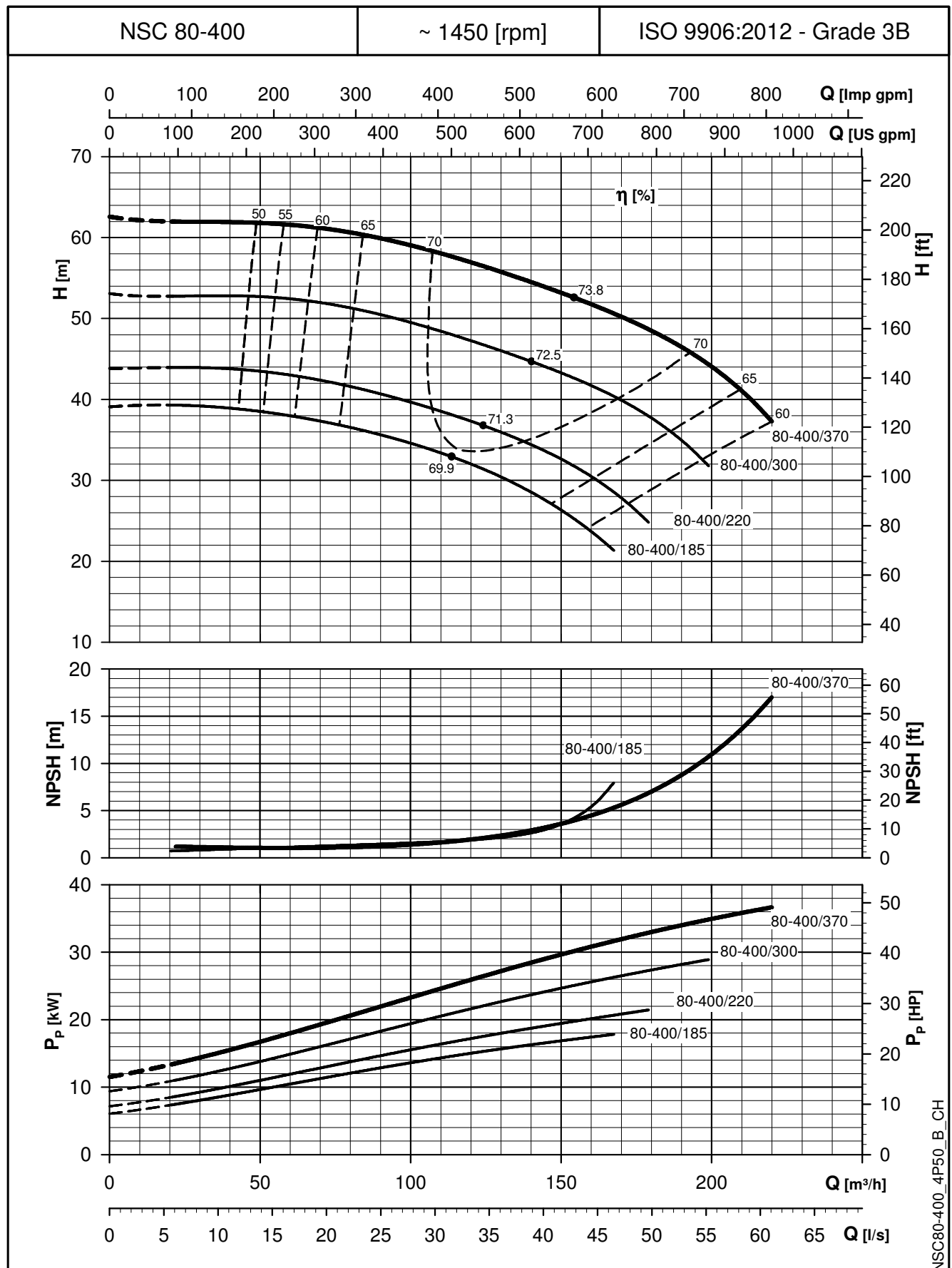
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
 These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

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


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  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

# e-NSC SERIES

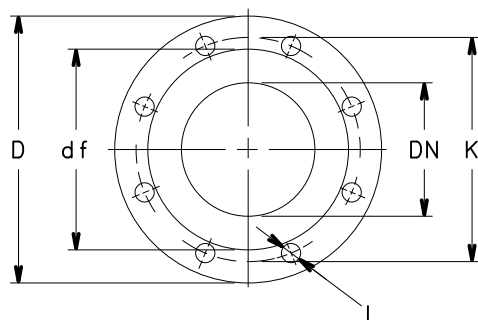
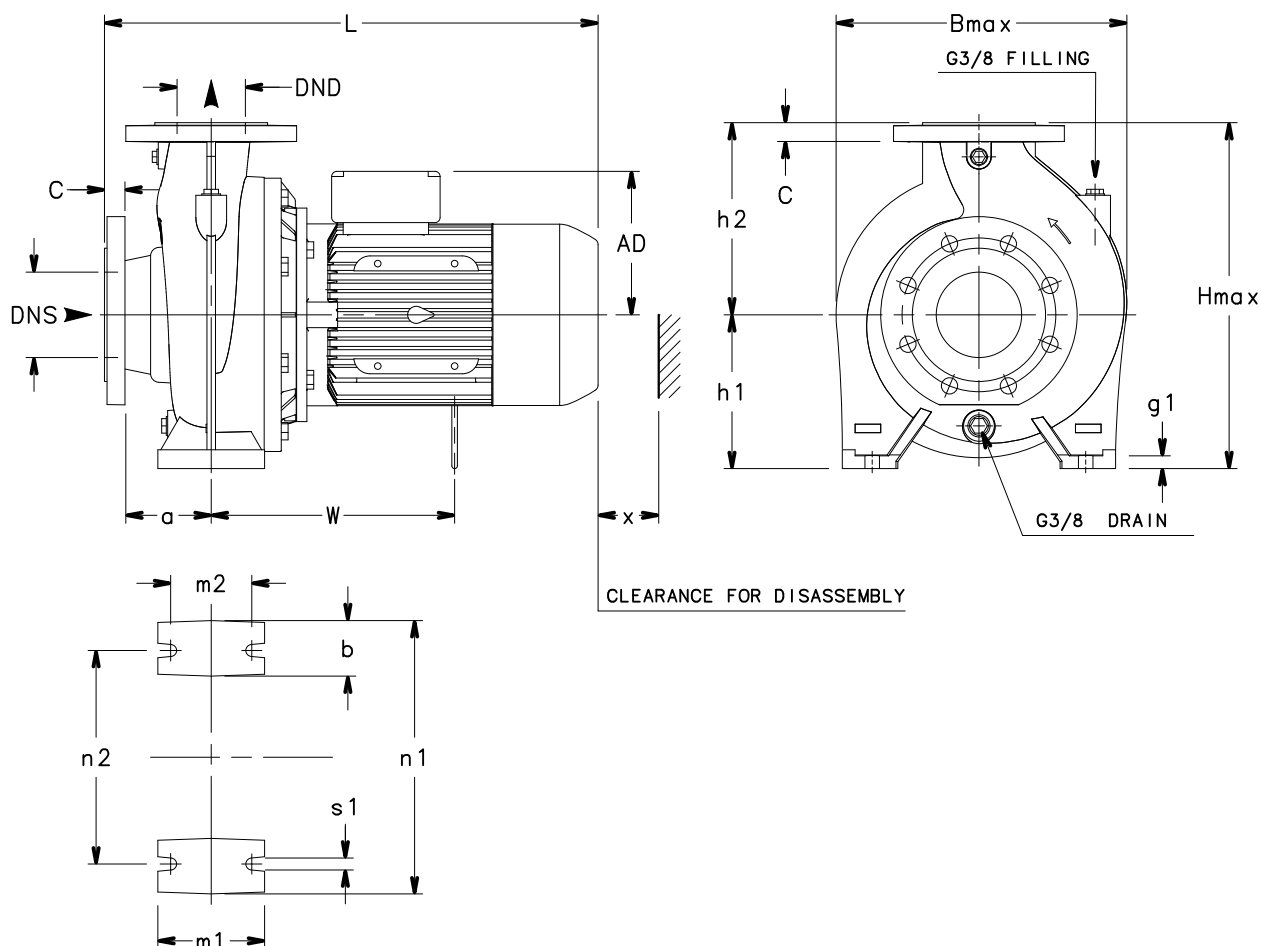
## OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



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  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

**NSCE 65, 80 SERIES  
DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES**

**TYPE A**



**FLANGES**

| EN1092-2, PN 16 *) |     |     |    |     |      | ASME B16.5, Class 150 RF *) |     |       |    |     |      |
|--------------------|-----|-----|----|-----|------|-----------------------------|-----|-------|----|-----|------|
| DN                 | D   | K   | C  | df  | L    | DN                          | D   | K     | C  | df  | L    |
| 65                 | 185 | 145 | 20 | 118 | 4x19 | 2 1/2                       | 185 | 139.5 | 20 | 105 | 4x19 |
| 80                 | 200 | 160 | 22 | 132 | 8x19 | 3                           | 200 | 152.5 | 22 | 127 | 8x19 |
| 100                | 230 | 180 | 24 | 157 | 8x19 | 4                           | 230 | 190.5 | 24 | 157 | 8x19 |

\*) ...VALUE "C" AND "D" MAY VARY  
FROM STANDARD.

## NSCE 65, 80 SERIES

### DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES

| PUMP TYPE<br>NSCE..4 | TYPE | DIMENSIONS (mm) |     |     |     |    |    |     |     |     |    |     |     |    |     |          |          |     |     | WEIGHT<br>kg |
|----------------------|------|-----------------|-----|-----|-----|----|----|-----|-----|-----|----|-----|-----|----|-----|----------|----------|-----|-----|--------------|
|                      |      | DNS             | DND | a   | AD  | b  | g1 | h1  | h2  | m1  | m2 | n1  | n2  | s1 | W   | B<br>max | H<br>max | L   | x   |              |
| 65-125/05/S          | A    | 80              | 65  | 100 | 139 | 65 | 16 | 160 | 180 | 125 | 95 | 280 | 212 | 14 | 237 | 300      | 340      | 465 | 100 | 40           |
| 65-125/07/X          | A    | 80              | 65  | 100 | 128 | 65 | 16 | 160 | 180 | 125 | 95 | 280 | 212 | 14 | -   | 300      | 340      | 433 | 100 | 44           |
| 65-125/11/P          | A    | 80              | 65  | 100 | 134 | 65 | 16 | 160 | 180 | 125 | 95 | 280 | 212 | 14 | 247 | 300      | 340      | 500 | 100 | 50           |
| 65-125/15/P          | A    | 80              | 65  | 100 | 134 | 65 | 16 | 160 | 180 | 125 | 95 | 280 | 212 | 14 | 247 | 300      | 340      | 500 | 100 | 53           |
| 65-160/15B/P         | A    | 80              | 65  | 100 | 134 | 65 | 16 | 160 | 200 | 125 | 95 | 280 | 212 | 14 | 245 | 335      | 360      | 498 | 108 | 55           |
| 65-160/15A/P         | A    | 80              | 65  | 100 | 134 | 65 | 16 | 160 | 200 | 125 | 95 | 280 | 212 | 14 | 245 | 335      | 360      | 498 | 108 | 55           |
| 65-160/15/P          | A    | 80              | 65  | 100 | 134 | 65 | 16 | 160 | 200 | 125 | 95 | 280 | 212 | 14 | 245 | 335      | 360      | 498 | 108 | 55           |
| 65-160/22A/P         | A    | 80              | 65  | 100 | 168 | 65 | 16 | 160 | 200 | 125 | 95 | 280 | 212 | 14 | 285 | 335      | 360      | 522 | 108 | 65           |
| 65-160/22/P          | A    | 80              | 65  | 100 | 168 | 65 | 16 | 160 | 200 | 125 | 95 | 280 | 212 | 14 | 285 | 335      | 360      | 522 | 108 | 65           |
| 65-200/15/P          | A    | 80              | 65  | 100 | 134 | 65 | 16 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 245 | 348      | 405      | 498 | 118 | 58           |
| 65-200/22A/P         | A    | 80              | 65  | 100 | 168 | 65 | 16 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 285 | 348      | 405      | 522 | 118 | 68           |
| 65-200/22/P          | A    | 80              | 65  | 100 | 168 | 65 | 16 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 285 | 348      | 405      | 522 | 118 | 68           |
| 65-200/30/P          | A    | 80              | 65  | 100 | 168 | 65 | 16 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 285 | 348      | 405      | 553 | 118 | 71           |
| 65-200/40/P          | A    | 80              | 65  | 100 | 168 | 65 | 16 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 345 | 348      | 405      | 582 | 118 | 90           |
| 80-160/15/P          | A    | 100             | 80  | 125 | 134 | 65 | 16 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 245 | 340      | 405      | 523 | 122 | 65           |
| 80-160/22A/P         | A    | 100             | 80  | 125 | 168 | 65 | 16 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 285 | 340      | 405      | 547 | 122 | 75           |
| 80-160/22/P          | A    | 100             | 80  | 125 | 168 | 65 | 16 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 285 | 340      | 405      | 547 | 122 | 75           |
| 80-160/30/P          | A    | 100             | 80  | 125 | 168 | 65 | 16 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 285 | 340      | 405      | 578 | 122 | 78           |

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

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