

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

### Construction

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

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

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

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

**Connections:** PN 10 flanges EN 1092-2.

**Counter-flanges** (on request)

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

### Shaft sealing

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

### Applications

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

For water supply.

For heating, air conditioning, cooling and circulation plants.

For civil and industrial applications and for agriculture.

For fire fighting applications.

For irrigation.

### Operating conditions

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

Ambient temperature up to 40 °C.

Total suction lift up to 7 m.

Maximum permissible working pressure up to 10 bar (16 bar for N,N4 40/160,200; N,N4 50/125,160; N,N4 65/125,160,200,250; N,N4 80/160).

Maximum permissible rotation speed: see table on page 76.

### Pump-Motor unit

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

Three-phase 400 V , 50 Hz

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

IP 55 protection.

Motor suitable for operation with frequency converter.

### Special features on request

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



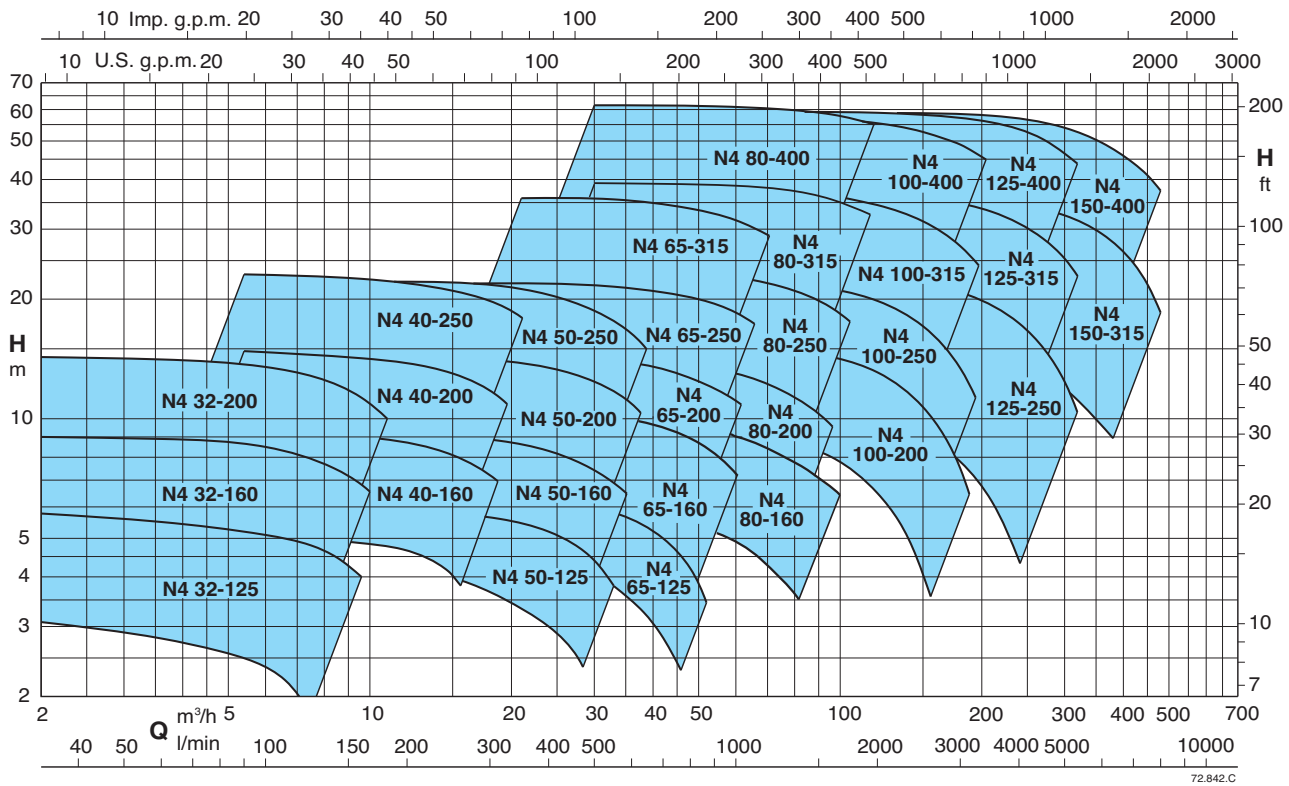
## Performance n ≈ 2900 rpm

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

| PUMP B-N      | PUMP N      | MOTOR  | P <sub>2</sub> kW | Q m <sup>3</sup> /h      | 24  | 27  | 30  | 33  | 37,8         | 42           | 48           | 54           | 60           | 66           | 75           | 84            | 96            | 108           | 120           | 132           | 141           |              |  |
|---------------|-------------|--------|-------------------|--------------------------|-----|-----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--|
|               |             |        |                   | Q l/min                  | 400 | 450 | 500 | 550 | 630          | 700          | 800          | 900          | 1000         | 1100         | 1250         | 1400          | 1600          | 1800          | 2000          | 2200          | 2350          |              |  |
| B-N 65-125E/B | N 65-125E/B | 112 M2 | 4                 | H m<br>P <sub>3</sub> kW |     |     |     |     | 16,5<br>2,86 | 16,4<br>2,99 | 16,2<br>3,17 | 15,9<br>3,34 | 15,5<br>3,5  | 15,1<br>3,64 | 14,3<br>3,81 | 13,2<br>3,94  | 11,4<br>4,03  | 9,2<br>4      |               |               |               |              |  |
| B-N 65-125C/B | N 65-125C/B | 132 S2 | 5,5               |                          |     |     |     |     |              | 21,1<br>3,68 | 21<br>3,86   | 20,8<br>4,11 | 20,6<br>4,35 | 20,3<br>4,57 | 19,9<br>4,77 | 19,1<br>5,02  | 18,2<br>5,23  | 16,5<br>5,41  | 14,4<br>5,5   | 11,8<br>5,49  |               |              |  |
| B-N 65-125A/B | N 65-125A/B | 132 S2 | 7,5               |                          |     |     |     |     |              | 25,9<br>4,71 | 25,8<br>4,92 | 25,6<br>5,21 | 25,4<br>5,5  | 25,1<br>5,77 | 24,8<br>6,03 | 24,1<br>6,38  | 23,3<br>6,69  | 21,9<br>7,02  | 20<br>7,25    | 17,6<br>7,36  |               |              |  |
| B-N 65-160D/B | N 65-160D/B | 132 S2 | 7,5               |                          |     |     |     |     |              |              |              | 24,3<br>5,11 | 24,1<br>5,44 | 23,9<br>5,75 | 23,6<br>6,05 | 23,1<br>6,45  | 22,3<br>6,8   | 20,8<br>7,15  | 18,8<br>7,4   | 16,3<br>7,52  |               |              |  |
| B-N 65-160C/B | N 65-160C/B | 160 M2 | 11                |                          |     |     |     |     |              |              |              | 28,1<br>5,89 | 28<br>6,26   | 27,8<br>6,61 | 27,6<br>6,96 | 27,1<br>7,44  | 26,3<br>7,87  | 24,9<br>8,37  | 23,1<br>8,74  | 20,7<br>8,98  | 17,7<br>9,06  |              |  |
| B-N 65-160B/B | N 65-160B/B | 160 M2 | 11                |                          |     |     |     |     |              |              |              | 32,6<br>7,04 | 32,5<br>7,44 | 32,3<br>7,84 | 32<br>8,22   | 31,5<br>8,76  | 30,8<br>9,25  | 29,5<br>9,84  | 27,9<br>10,33 | 25,7<br>10,7  | 23,0<br>10,96 |              |  |
| B-N 65-160AR  | N 65-160AR  | 160 M2 | 15                |                          |     |     |     |     |              |              |              | 36,4<br>7,98 | 36,3<br>8,45 | 36,2<br>8,91 | 35,9<br>9,36 | 35,5<br>9,99  | 34,8<br>10,57 | 33,7<br>11,27 | 32,1<br>11,85 | 30,0<br>12,33 | 27,5<br>12,71 |              |  |
| B-N 65-160A/B | N 65-160A/B | 160 M2 | 15                |                          |     |     |     |     |              |              |              | 40,5<br>8,91 | 40,4<br>9,44 | 40,2<br>9,96 | 40<br>10,47  | 39,5<br>11,19 | 38,8<br>11,88 | 37,6<br>12,64 | 36,1<br>13,33 | 34,2<br>13,92 | 31,7<br>14,42 |              |  |
| B-N 65-200C/B | N 65-200C/B | 160 M2 | 15                |                          |     |     |     |     |              |              |              | 44<br>9,2    | 43,8<br>9,8  | 43,5<br>10,4 | 43,1<br>10,9 | 42,3<br>11,7  | 41,2<br>12,3  | 39,4<br>13,1  | 37,1<br>13,8  | 34,4<br>14,3  | 31,4<br>14,8  | 28,8<br>15,1 |  |
| B-N 65-200B/B | N 65-200B/B | 160 L2 | 18,5              |                          |     |     |     |     |              |              |              | 50,5<br>10,9 | 50,4<br>11,5 | 50,2<br>12,2 | 49,9<br>12,8 | 49,2<br>13,7  | 48,3<br>14,6  | 46,8<br>15,6  | 44,8<br>16,4  | 42,5<br>17,2  | 39,8<br>17,9  | 37,5<br>18,3 |  |
| B-N 65-200A/B | N 65-200A/B | 180 M2 | 22                |                          |     |     |     |     |              |              |              | 57<br>13,3   | 57<br>14,1   | 57<br>14,9   | 56,5<br>15,6 | 56<br>16,7    | 55,5<br>17,7  | 54<br>18,4    | 52,5<br>19,1  | 50<br>20,1    | 47,5<br>21,1  | 45,5<br>22,5 |  |
| B-N 65-250C/B | N 65-250C/B | 180 M2 | 22                |                          |     |     |     |     |              |              |              | 61<br>13,5   | 61<br>14,5   | 60,5<br>15   | 60<br>16     | 58,5<br>17    | 57<br>18      | 54,5<br>19    | 51,5<br>20    | 47,5<br>21    | 43<br>21,5    |              |  |
| B-N 65-250B/B | N 65-250B/B | 200 L2 | 30                |                          |     |     |     |     |              |              |              | 73,5<br>18,5 | 73,5<br>19,5 | 73,5<br>20,5 | 73,5<br>21,5 | 73<br>22,5    | 71,5<br>24    | 69,5<br>26    | 66,5<br>27,5  | 63<br>29      | 59<br>30,5    |              |  |
| B-N 65-250A/B | N 65-250A/B | 200 L2 | 37                |                          |     |     |     |     |              |              |              | 86,5<br>22   | 86,5<br>23,5 | 87<br>24,5   | 86,5<br>26   | 86<br>27,5    | 86<br>29,5    | 83,5<br>31,5  | 81<br>34      | 78<br>35,5    | 74,5<br>37    |              |  |

| PUMP B-N       | PUMP N       | MOTOR  | P <sub>2</sub> kW | Q m <sup>3</sup> /h      | 60   | 66   | 75           | 84            | 96            | 108           | 120           | 132           | 150           | 168           | 180           | 192           | 210           | 240        | 270        | 300           |           |  |  |
|----------------|--------------|--------|-------------------|--------------------------|------|------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|------------|---------------|-----------|--|--|
|                |              |        |                   | Q l/min                  | 1000 | 1100 | 1250         | 1400          | 1600          | 1800          | 2000          | 2200          | 2500          | 2800          | 3000          | 3200          | 3500          | 4000       | 4500       | 5000          |           |  |  |
| B-N 80-160E/B  | N 80-160E/B  | 132 S2 | 7,5               | H m<br>P <sub>3</sub> kW |      |      | 21,5<br>6,81 | 20,9<br>6,92  | 19,9<br>7,05  | 18,7<br>7,15  | 17,4<br>7,22  | 15,9<br>7,26  | 13,4<br>7,27  | 10,6<br>7,21  |               |               |               |            |            |               |           |  |  |
| B-N 80-160D/B  | N 80-160D/B  | 160 M2 | 11                |                          |      |      |              | 25,2<br>8     | 24,5<br>8,22  | 23,5<br>8,49  | 22,4<br>8,73  | 21,1<br>8,93  | 19,6<br>9,09  | 17,2<br>9,23  | 14,4<br>9,23  |               |               |            |            |               |           |  |  |
| B-N 80-160C/B  | N 80-160C/B  | 160 M2 | 11                |                          |      |      |              | 28,7<br>9,04  | 28,2<br>9,35  | 27,4<br>9,74  | 26,4<br>10,09 | 25,1<br>10,39 | 23,8<br>10,65 | 21,3<br>10,91 | 18,5<br>10,99 | 16,4<br>10,93 |               |            |            |               |           |  |  |
| B-N 80-160B/B  | N 80-160B/B  | 160 M2 | 15                |                          |      |      |              | 34,8<br>11,37 | 34,5<br>11,83 | 33,8<br>12,42 | 33<br>13      | 32,1<br>13,53 | 30,9<br>14,01 | 28,9<br>14,63 | 26,4<br>15,07 | 24,5<br>15,26 | 22,4<br>15,34 |            |            |               |           |  |  |
| B-N 80-160A/B  | N 80-160A/B  | 160 L2 | 18,5              |                          |      |      |              | 39,9<br>13,25 | 39,6<br>13,82 | 39<br>14,58   | 38,2<br>15,3  | 37,4<br>15,99 | 36,4<br>16,62 | 34,5<br>17,45 | 32,2<br>18,09 | 30,3<br>18,4  | 28,1<br>18,59 |            |            |               |           |  |  |
| B-N 80-200B/A  | N 80-200B/A  | 180 M2 | 22                |                          |      |      |              | 46,5<br>15,7  | 46<br>16,6    | 45,5<br>17,7  | 44,5<br>18,6  | 43,5<br>19,4  | 42<br>20,2    | 39*<br>21,3   | 35,5*<br>21,8 | 32*<br>22     |               |            |            |               |           |  |  |
| B-N 80-200A/A  | N 80-200A/A  | 200 L2 | 30                |                          |      |      |              | 56<br>20      | 55,5<br>21,1  | 55<br>22,3    | 54<br>23,5    | 53<br>24,7    | 52<br>25,7    | 49,5*<br>27,2 | 46*<br>28,5   | 43*<br>29,3   |               |            |            |               |           |  |  |
| B-N 80-250E/A  | N 80-250E/A  | 180 M2 | 22                |                          |      |      |              | 51<br>16,2    | 50<br>17,1    | 48,5<br>18,2  | 46,5<br>19,1  | 44,5<br>20    | 42<br>20,6    | 38*<br>21,4   | 33*<br>21,9   | 29*<br>22     |               |            |            |               |           |  |  |
| B-N 80-250D/A  | N 80-250D/A  | 200 L2 | 30                |                          |      |      |              | 65<br>21,9    | 64<br>22,3    | 62,5<br>24    | 61<br>25,3    | 59<br>26,5    | 56,5<br>27,5  | 53*<br>28,6   | 49*<br>29,4   | 45,5*<br>29,9 | 41*<br>30     |            |            |               |           |  |  |
| B-N 80-250C/A  | N 80-250C/A  | 200 L2 | 37                |                          |      |      |              | 73,5<br>24,9  | 73<br>26      | 72<br>27,8    | 70,5<br>29,5  | 69<br>31      | 67<br>32,4    | 63*<br>33,8   | 59*<br>35,2   | 55,5*<br>36,2 | 51,5*<br>36,2 |            |            |               |           |  |  |
| B-N 80-250B/A  | N 80-250B/A  | 225 M2 | 45                |                          |      |      |              | 84<br>29      | 83,5<br>30,7  | 82,5<br>32,9  | 81,5<br>35    | 80<br>36,7    | 78<br>38,3    | 74,5*<br>40,1 | 70,5*<br>41,8 | 67*<br>43     | 63*<br>44,1   |            |            |               |           |  |  |
| B-N 80-250A/A  | N 80-250A/A  | 250 M2 | 55                |                          |      |      |              | 95<br>33,7    | 94,5<br>35,6  | 93,5<br>38,1  | 92,5<br>40,5  | 91,5<br>42,7  | 90<br>44,8    | 87,5*<br>47,4 | 84*<br>49,8   | 80,5*<br>51,5 | 76,5*<br>53   |            |            |               |           |  |  |
| B-N 100-200E/A | N 100-200E/A | 160 L2 | 18,5              |                          |      |      |              |               |               |               |               | 30<br>14,5    | 29,5<br>15,7  | 29<br>16,9    | 28<br>17,2    | 26<br>17,9    | 23<br>18,3    | 23<br>19,1 | 23<br>20,1 | 19*<br>21,6   | 19*<br>22 |  |  |
| B-N 100-200D/A | N 100-200D/A | 180 M2 | 22                |                          |      |      |              |               |               |               |               | 36<br>17,1    | 35,5<br>17,8  | 35<br>18,5    | 34<br>19,5    | 33<br>20,2    | 32<br>21,1    | 29<br>21,6 | 29<br>22,6 | 24,5*<br>24,5 | 19*<br>22 |  |  |
| B-N 100-200C/A | N 100-200C/A | 200 L2 | 30                |                          |      |      |              |               |               |               |               | 45<br>22      | 44,5<br>22,2  | 44<br>23,9    | 43,5<br>25,1  | 42,5<br>26,2  | 41,5<br>27    |            |            |               |           |  |  |

### Coverage chart $n \approx 1450$ rpm



Tolerances according to UNI EN ISO 9906:2012

### Performance $n \approx 1450$ rpm

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

| PUMP           | PUMP         | MOTOR   | P <sub>2</sub><br>kW | Q                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|----------------|--------------|---------|----------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
|                |              |         |                      | Q m <sup>3</sup> /h | 5,4  | 6    | 6,6  | 7,5  | 8,4  | 9,6  | 10,8 | 12   | 13,2 | 15   | 16,8 | 18,9 | 21   | 24   | 27 |
| B-N4 40-160C/A | N4 40-160C/A | 71 M4   | 0,37                 | 6,1                 | 6,1  | 6    | 5,9  | 5,9  | 5,8  | 5,6  | 5,4  | 5,2  | 5    | 4,5  | 3,9  | 3,1  | 2,3  |      |    |
| B-N4 40-160B/A | N4 40-160B/A | 80 M4   | 0,55                 | 7,6                 | 7,6  | 7,6  | 7,6  | 7,6  | 7,3  | 7,1  | 6,9  | 6,6  | 6,3  | 5,7  | 5    | 4    | 2,7  |      |    |
| B-N4 40-160A/A | N4 40-160A/A | 80 M4   | 0,75                 | 9,6                 | 9,6  | 9,6  | 9,6  | 9,4  | 9,3  | 9,1  | 9    | 8,8  | 8,4  | 7,9  | 7,2  | 6,4  | 5,1  | 3,5  |    |
| B-N4 40-200B/A | N4 40-200B/A | 90 S4   | 1,1                  | 13                  | 12,9 | 12,8 | 12,7 | 12,6 | 12,4 | 12,2 | 12   | 11,5 | 10,8 | 10   | 8,6  | 7    |      |      |    |
| B-N4 40-200A/A | N4 40-200A/A | 90 S4   | 1,1                  | 14,8                | 14,7 | 14,6 | 14,5 | 14,4 | 14,2 | 14,2 | 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   |    |
| 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.

P<sub>2</sub> Rated motor power output.  
P<sub>3</sub> Pump power input.

H Total head in m.

\* Maximum suction lift 1-2 m.

### Performance n ≈ 1450 rpm

| PUMP<br>B-N4   | PUMP<br>N4   | MOTOR  | P <sub>2</sub><br>kW | Q m³/h                   | 10,8          | 12            | 13,2          | 15            | 16,8          | 18,9          | 21            | 24            | 27            | 30            | 33            | 37,8          | 42            | 48           |  |  |  |
|----------------|--------------|--------|----------------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--|--|--|
|                |              |        |                      | Q l/min                  | 180           | 200           | 220           | 250           | 280           | 315           | 350           | 400           | 450           | 500           | 550           | 630           | 700           | 800          |  |  |  |
| B-N4 50-125F/A | N4 50-125F/A | 71 M4  | 0,37                 | H m<br>P <sub>3</sub> kW | 4,5<br>0,26   | 4,5<br>0,275  | 4,4<br>0,285  | 4,3<br>0,3    | 4,1<br>0,31   | 3,8<br>0,32   | 3,5<br>0,325  | 2,9<br>0,33   | 2,2<br>0,325  | 1,4<br>0,315  | 0,5<br>0,3    |               |               |              |  |  |  |
| B-N4 50-125D/A | N4 50-125D/A | 80 M4  | 0,55                 |                          | 5,5<br>0,32   | 5,5<br>0,335  | 5,4<br>0,345  | 5,4<br>0,365  | 5,2<br>0,385  | 5,1<br>0,4    | 4,8<br>0,415  | 4,4<br>0,425  | 3,8<br>0,435  | 3,2<br>0,43   | 2,5<br>0,425  |               |               |              |  |  |  |
| B-N4 50-125A/A | N4 50-125A/A | 80 M4  | 0,75                 |                          | 6,4<br>0,37   | 6,4<br>0,39   | 6,3<br>0,405  | 6,3<br>0,425  | 6,2<br>0,45   | 6,1<br>0,47   | 5,9<br>0,49   | 5,6<br>0,51   | 5,2<br>0,525  | 4,6<br>0,535  | 4<br>0,535    | 2,9<br>0,525  |               |              |  |  |  |
| B-N4 50-125S/A | N4 50-125S/A | 80 M4  | 0,75                 |                          | 6,8<br>0,4    | 6,8<br>0,42   | 6,8<br>0,435  | 6,8<br>0,46   | 6,7<br>0,48   | 6,6<br>0,505  | 6,4<br>0,525  | 6,2<br>0,555  | 5,8<br>0,57   | 5,3<br>0,585  | 4,8<br>0,59   | 3,8<br>0,59   |               |              |  |  |  |
| B-N4 50-160B/A | N4 50-160B/A | 90 S4  | 1,1                  |                          | 8,2<br>0,449  | 8,2<br>0,469  | 8,2<br>0,496  | 8,1<br>0,524  | 8<br>0,555    | 7,8<br>0,584  | 7,6<br>0,610  | 7,2<br>0,643  | 6,7<br>0,671  | 6,2<br>0,683  | 5,5<br>0,692  | 4,4<br>0,687  | 3,3<br>0,673  |              |  |  |  |
| B-N4 50-160A/A | N4 50-160A/A | 90 S4  | 1,1                  |                          | 9,6<br>0,555  | 9,6<br>0,578  | 9,6<br>0,600  | 9,5<br>0,632  | 9,5<br>0,670  | 9,3<br>0,705  | 9,1<br>0,742  | 8,8<br>0,778  | 8,3<br>0,811  | 7,8<br>0,833  | 7,2<br>0,850  | 6,1<br>0,862  | 4,9<br>0,861  | 3,1<br>0,844 |  |  |  |
| B-N4 50-200C/A | N4 50-200C/A | 90 S4  | 1,1                  |                          | 11,8<br>0,617 | 11,8<br>0,647 | 11,7<br>0,682 | 11,7<br>0,720 | 11,5<br>0,759 | 11,3<br>0,801 | 10,9<br>0,841 | 10,4<br>0,888 | 9,8<br>0,927  | 9<br>0,957    | 8,1<br>0,979  | 6,3<br>1,005  | 4,7<br>1,010  |              |  |  |  |
| B-N4 50-200B/A | N4 50-200B/A | 90 L4  | 1,5                  |                          | 13,4<br>0,772 | 13,4<br>0,807 | 13,4<br>0,840 | 13,3<br>0,889 | 13,1<br>0,949 | 12,9<br>0,998 | 12,6<br>1,051 | 12,1<br>1,115 | 11,5<br>1,171 | 10,8<br>1,213 | 9,9<br>1,251  | 8,2<br>1,278  | 6,4<br>1,299  | 3,7<br>1,301 |  |  |  |
| B-N4 50-200A/A | N4 50-200A/A | 100 L4 | 2,2                  |                          | 14,9<br>0,883 | 14,9<br>0,923 | 14,9<br>0,962 | 14,9<br>1,019 | 14,8<br>1,074 | 14,6<br>1,135 | 14,4<br>1,194 | 14<br>1,273   | 13,4<br>1,345 | 12,8<br>1,409 | 12<br>1,464   | 10,4<br>1,535 | 8,6<br>1,576  | 6<br>1,596   |  |  |  |
| B-N4 50-250D/A | N4 50-250D/A | 100 L4 | 2,2                  |                          | 14,5<br>0,843 | 14,4<br>0,886 | 14,3<br>0,929 | 14<br>0,990   | 13,7<br>1,049 | 13,4<br>1,098 | 13<br>1,160   | 12,2<br>1,230 | 11,2<br>1,300 | 9,7<br>1,364  | 8,1<br>1,395  | 5,4<br>1,435  | 2,3<br>1,468  |              |  |  |  |
| B-N4 50-250C/A | N4 50-250C/A | 100 L4 | 2,2                  |                          | 17,8<br>1,091 | 17,8<br>1,140 | 17,7<br>1,188 | 17,5<br>1,258 | 17,2<br>1,324 | 16,8<br>1,397 | 16,4<br>1,465 | 15,7<br>1,554 | 14,9<br>1,633 | 13,8<br>1,700 | 12,4<br>1,755 | 9,7<br>1,817  | 6,8<br>1,844  |              |  |  |  |
| B-N4 50-250B/A | N4 50-250B/A | 100 L4 | 3                    |                          | 20,7<br>1,374 | 20,7<br>1,437 | 20,7<br>1,499 | 20,6<br>1,591 | 20,4<br>1,680 | 20<br>1,781   | 19,5<br>1,878 | 18,9<br>2,009 | 18,2<br>2,130 | 17,1<br>2,241 | 15,9<br>2,320 | 13,2<br>2,448 | 10,6<br>2,510 | 5,8<br>2,580 |  |  |  |
| B-N4 50-250A/A | N4 50-250A/A | 112 M4 | 4                    |                          | 22,7<br>1,493 | 22,7<br>1,561 | 22,6<br>1,628 | 22,5<br>1,728 | 22,4<br>1,825 | 22,1<br>1,935 | 21,6<br>2,042 | 21<br>2,186   | 20,2<br>2,322 | 19,4<br>2,445 | 18,3<br>2,557 | 16,4<br>2,706 | 13,6<br>2,804 | 9<br>2,893   |  |  |  |

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

| PUMP<br>B-N4   | PUMP<br>N4   | MOTOR  | P <sub>2</sub><br>kW | Q m³/h                   | 30            | 33           | 37,8         | 42           | 48           | 54           | 60           | 66           | 75           | 84           | 96           | 108          | 120          | 132          | 150  | 168  | 180  |  |
|----------------|--------------|--------|----------------------|--------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|------|------|--|
|                |              |        |                      | Q l/min                  | 500           | 550          | 630          | 700          | 800          | 900          | 1000         | 1100         | 1250         | 1400         | 1600         | 1800         | 2000         | 2200         | 2500 | 2800 | 3000 |  |
| B-N4 80-160C/B | N4 80-160C/B | 90 S4  | 1,1                  | H m<br>P <sub>3</sub> kW | 6,1<br>0,87   | 6,1<br>0,88  | 5,9<br>0,9   | 5,8<br>0,92  | 5,5<br>0,95  | 5,2<br>0,98  | 4,9<br>1     | 4,6<br>1,02  | 4<br>1,03    | 3,3<br>1,04  |              |              |              |              |      |      |      |  |
| B-N4 80-160B/B | N4 80-160B/B | 90 L4  | 1,5                  |                          | 7,8<br>1,14   | 7,7<br>1,16  | 7,6<br>1,2   | 7,5<br>1,23  | 7,3<br>1,27  | 7<br>1,31    | 6,8<br>1,34  | 6,4<br>1,37  | 5,9<br>1,41  | 5,2<br>1,44  | 4,1<br>1,46  |              |              |              |      |      |      |  |
| B-N4 80-160A/B | N4 80-160A/B | 100 L4 | 2,2                  |                          | 10<br>1,49    | 10<br>1,53   | 9,9<br>1,6   | 9,8<br>1,66  | 9,7<br>1,74  | 9,5<br>1,82  | 9,3<br>1,9   | 9<br>1,97    | 8,5<br>2,07  | 8<br>2,15    | 7<br>2,22    | 5,9<br>2,24  |              |              |      |      |      |  |
| B-N4 80-200C/A | N4 80-200C/A | 100 L4 | 2,2                  |                          | 10,3<br>1,56  | 10,2<br>1,62 | 10,1<br>1,7  | 10<br>1,77   | 9,8<br>1,86  | 9,5<br>1,93  | 9,1<br>2     | 8,6<br>2,06  | 7,7<br>2,13  | 6,6<br>2,18  | 4,6<br>2,2   |              |              |              |      |      |      |  |
| B-N4 80-200B/A | N4 80-200B/A | 100 L4 | 3                    |                          | 12,1<br>1,9   | 12<br>1,88   | 11,9<br>2    | 11,8<br>2,11 | 11,7<br>2,22 | 11,4<br>2,33 | 11,1<br>2,43 | 10,6<br>2,52 | 9,8<br>2,62  | 9<br>2,68    | 7,5<br>2,72  | 5,7<br>2,72  |              |              |      |      |      |  |
| B-N4 80-200A/A | N4 80-200A/A | 112 M4 | 4                    |                          | 13,9<br>2,13  | 13,8<br>2,22 | 13,7<br>2,35 | 13,6<br>2,48 | 13,5<br>2,65 | 13,3<br>2,8  | 13<br>2,94   | 12,6<br>3,05 | 11,8<br>3,2  | 11<br>3,35   | 9,6<br>3,44  | 7,9<br>3,46  | 6<br>3,44    |              |      |      |      |  |
| B-N4 80-250C/A | N4 80-250C/A | 112 M4 | 4                    |                          | 16,9<br>2,37  | 16,8<br>2,5  | 16,7<br>2,65 | 16,6<br>2,8  | 16,3<br>3    | 15,9<br>3,2  | 15,4<br>3,35 | 14,8<br>3,49 | 13,9<br>3,68 | 12,7<br>3,83 | 11,1<br>3,97 | 9,3<br>3,98  | 7,2<br>3,88  |              |      |      |      |  |
| B-N4 80-250B/A | N4 80-250B/A | 132 S4 | 5,5                  |                          | 20,7<br>3,25  | 20,6<br>3,38 | 20,5<br>3,58 | 20,4<br>3,75 | 20,3<br>4    | 20<br>4,23   | 19,6<br>4,42 | 19,1<br>4,6  | 18,2<br>4,87 | 17,1<br>5,13 | 15,4<br>5,35 | 13,5<br>5,49 | 11,4<br>5,55 | 9,5<br>5,45  |      |      |      |  |
| B-N4 80-250A/A | N4 80-250A/A | 132 M4 | 7,5                  |                          | 23,7<br>3,94  | 23,7<br>4,1  | 23,6<br>4,33 | 23,5<br>4,54 | 23,3<br>4,83 | 23<br>5,08   | 22,7<br>5,33 | 22,2<br>5,58 | 21,5<br>5,91 | 20,5<br>6,23 | 19<br>6,52   | 17,2<br>6,82 | 15,1<br>6,98 | 12,7<br>7,05 |      |      |      |  |
| B-N4 80-315C/B | N4 80-315C/B | 160 M4 | 11                   |                          | 25,7<br>4,6   | 25,8<br>4,8  | 25,8<br>5,1  | 25,8<br>5,4  | 25,8<br>5,7  | 25,6<br>6,1  | 25,4<br>6,4  | 25<br>6,7    | 24,4<br>7,2  | 23,6<br>7,6  | 22,2<br>8,1  | 20,4<br>8,5  | 18,3<br>8,9  | 15,9<br>9,2  |      |      |      |  |
| B-N4 80-315B/B | N4 80-315B/B | 160 M4 | 11                   |                          | 30,3<br>5,3   | 30,5<br>5,5  | 30,6<br>5,9  | 30,7<br>6,2  | 30,7<br>6,6  | 30,7<br>7    | 30,5<br>7,5  | 30,2<br>7,9  | 29,6<br>8,5  | 28,8<br>9    | 27,5<br>9,7  | 25,9<br>10,2 | 22<br>10,8   |              |      |      |      |  |
| B-N4 80-315A/B | N4 80-315A/B | 160 L4 | 15                   |                          | 36,3<br>6,7   | 36,4<br>6,9  | 36,5<br>7,3  | 36,6<br>7,7  | 36,6<br>8,2  | 36,5<br>8,7  | 36,4<br>9,2  | 36,1<br>9,7  | 35,6<br>10,4 | 35<br>11,1   | 32,5<br>12   | 30,9<br>12,7 | 29<br>13,4   | 25,3<br>14,8 |      |      |      |  |
| B-N4 80-315S   | N4 80-315S   | 180 M4 | 18,5                 |                          | 39,1<br>7,6</ |              |              |              |              |              |              |              |              |              |              |              |              |              |      |      |      |  |

### Performance n ≈ 1450 rpm

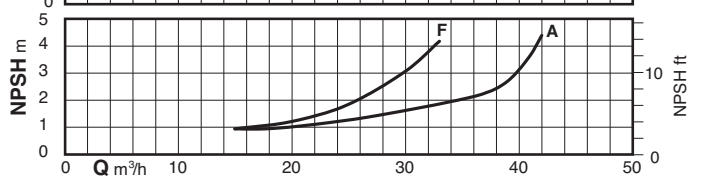
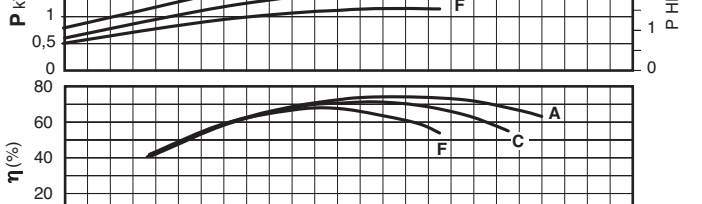
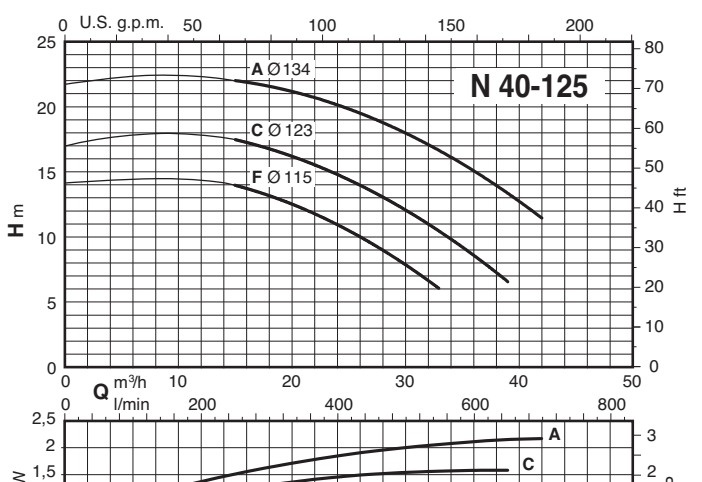
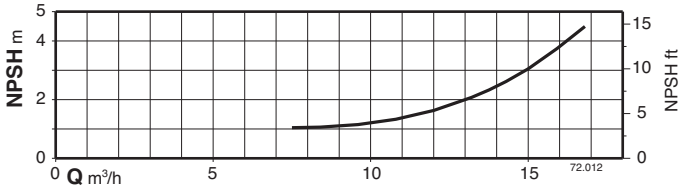
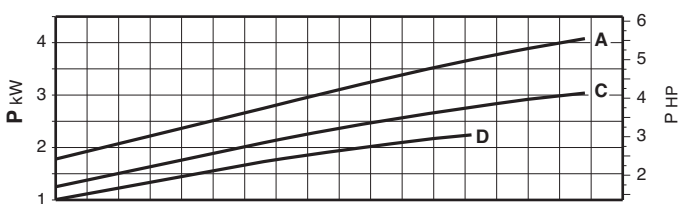
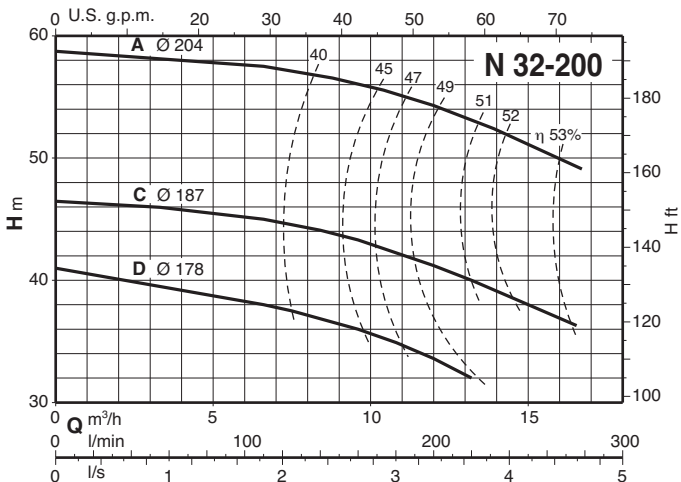
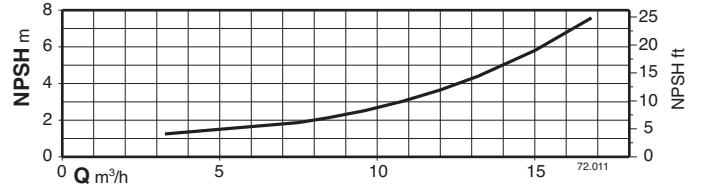
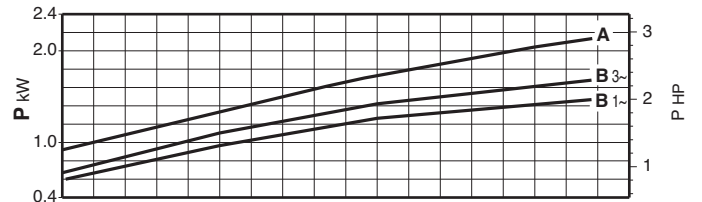
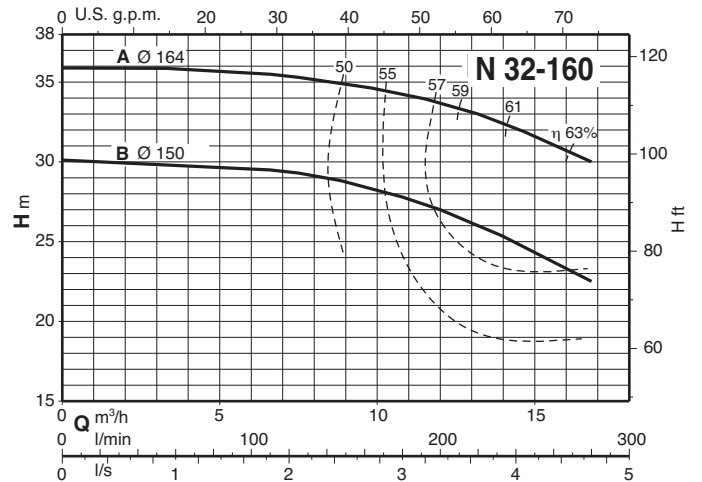
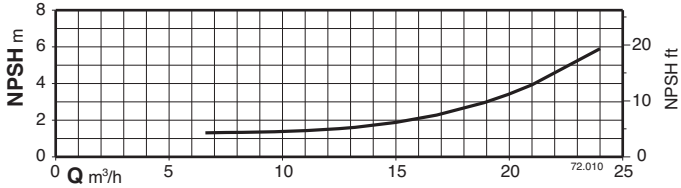
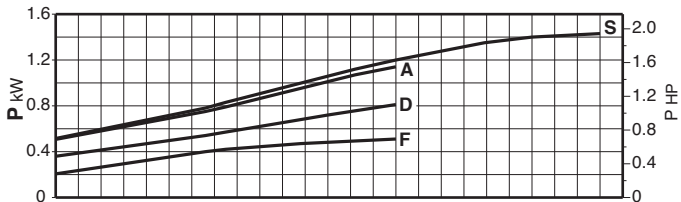
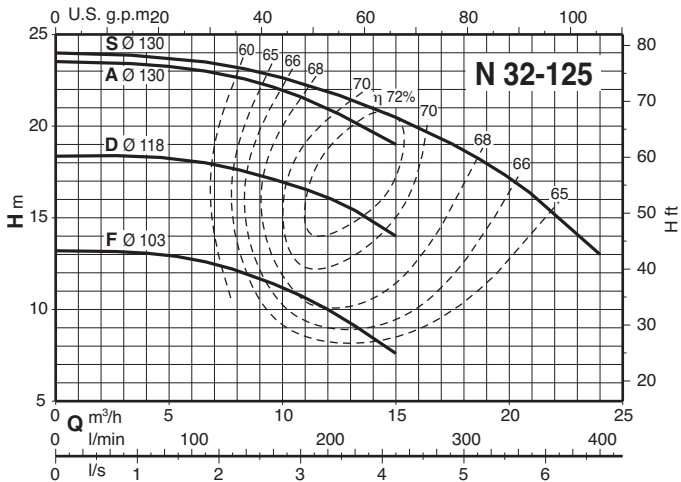
| PUMP<br>B-N4    | PUMP<br>N4    | MOTOR  | P <sub>2</sub><br>kW | Q m <sup>3</sup> /h | 48   | 54    | 60   | 66   | 75   | 84   | 96   | 108  | 120  | 132  | 150  | 168  | 180  | 192   | 210   |      |      |      |      |      |      |
|-----------------|---------------|--------|----------------------|---------------------|------|-------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|------|------|------|
|                 |               |        |                      | Q l/min             | 800  | 900   | 1000 | 1100 | 1250 | 1400 | 1600 | 1800 | 2000 | 2200 | 2500 | 2800 | 3000 | 3200  | 3500  |      |      |      |      |      |      |
| B-N4 100-200C/A | N4 100-200C/A | 100 L4 | 3                    | H <sub>m</sub>      | 9,4  | 9,3   | 9,2  | 9,1  | 8,9  | 8,5  | 8    | 7,3  | 6,5  | 5,6  |      |      |      |       |       |      |      |      |      |      |      |
|                 |               |        |                      |                     | 2,65 | 2,8   | 2,95 | 3,1  | 3,3  | 3,45 | 3,65 | 3,85 | 4    | 4,2  | 4,5  | 4,8  | 5,2  |       |       |      |      |      |      |      |      |
|                 |               |        |                      |                     | 15,2 | 15,2  | 15,1 | 15   | 14,9 | 14,7 | 14,3 | 13,8 | 13,1 | 12,2 | 10,7 | 9    | 7,5  | 6*    |       |      |      |      |      |      |      |
|                 |               |        |                      |                     | 3,65 | 3,85  | 4    | 4,15 | 4,4  | 4,6  | 4,85 | 5,1  | 5,3  | 5,45 | 5,55 | 5,65 | 5,65 | 5,65  | 5,65  | 5,65 | 5,65 | 5,65 | 5,65 | 5,65 |      |
|                 |               |        |                      |                     | 19,5 | 19,5  | 19,4 | 19,3 | 19   | 18,7 | 18,2 | 17,5 | 16,6 | 15,6 | 13,8 | 11,7 | 10   | 8,4   | 7,5   | 6,5  | 5,5  | 4,5  | 3,5  | 2,5  | 1,5  |
|                 |               |        |                      |                     | 4,8  | 5     | 5,2  | 5,4  | 5,75 | 6,05 | 6,4  | 6,7  | 7    | 7,3  | 7,5  | 7,5  | 7,5  | 7,5   | 7,5   | 7,5  | 7,5  | 7,5  | 7,5  | 7,5  | 7,5  |
|                 |               |        |                      |                     | 22,3 | 22,3  | 22,2 | 22,1 | 21,9 | 21,7 | 21,2 | 20,5 | 19,8 | 18,8 | 17,1 | 15   | 13,4 | 11,7  | 10    | 8,4  | 7,5  | 6,5  | 5,5  | 4,5  | 3,5  |
|                 |               |        |                      |                     | 5,5  | 5,8   | 6,05 | 6,25 | 6,6  | 6,95 | 7,35 | 7,75 | 8,1  | 8,35 | 8,7  | 9    | 9,05 | 9,05  | 9,05  | 9,05 | 9,05 | 9,05 | 9,05 | 9,05 | 9,05 |
|                 |               |        |                      |                     | 26,9 | 26,9  | 26,8 | 26,6 | 26,2 | 25,7 | 24,9 | 23,8 | 22,7 | 21,3 | 18,9 | 15,9 | 13,7 | 11,3* |       |      |      |      |      |      |      |
|                 |               |        |                      |                     | 6,6  | 7     | 7,35 | 7,65 | 8,1  | 8,5  | 9    | 9,5  | 9,85 | 10,2 | 10,7 | 10,9 | 10,9 | 10,9  | 10,9  | 10,9 | 10,9 | 10,9 | 10,9 | 10,9 | 10,9 |
| B-N4 100-315C/A | N4 100-315C/A | 160 M4 | 11                   | H <sub>m</sub>      | 31,5 | 31,5  | 31,4 | 31,3 | 31,2 | 30,8 | 30,2 | 29,3 | 28,2 | 26,9 | 24,6 | 21,8 | 19,8 | 17,6* | 14,4* |      |      |      |      |      |      |
|                 |               |        |                      |                     | 7,8  | 8,25  | 8,65 | 9    | 9,6  | 10,2 | 10,9 | 11,5 | 12,1 | 12,6 | 13,3 | 13,9 | 14,1 | 14,4  | 14,4  | 14,4 | 14,4 | 14,4 | 14,4 | 14,4 |      |
|                 |               |        |                      |                     | 36,9 | 36,9  | 36,8 | 36,7 | 36,6 | 36,4 | 36   | 35,3 | 34,5 | 33,4 | 31,4 | 29   | 27,2 | 25,3* | 22,2* |      |      |      |      |      |      |
|                 |               |        |                      |                     | 9,7  | 10,2  | 10,7 | 11,2 | 11,9 | 12,5 | 13,3 | 14,1 | 14,9 | 15,6 | 16,6 | 17,4 | 17,9 | 18,3  | 18,3  | 18,3 | 18,3 | 18,3 | 18,3 | 18,3 | 18,3 |
|                 |               |        |                      |                     | 41,3 | 41,2  | 41,1 | 41   | 40,7 | 40,4 | 40,4 | 39,8 | 39   | 38   | 36,5 | 34   | 31   | 28,7  | 26    | 22   |      |      |      |      |      |
|                 |               |        |                      |                     | 11,1 | 11,8  | 12,5 | 13,2 | 14   | 14,8 | 15,6 | 16   | 17   | 18   | 18,9 | 20   | 21   | 21,7  | 22    | 22   | 22   | 22   | 22   | 22   | 22   |
|                 |               |        |                      |                     | 50,2 | 50,1  | 50   | 49,9 | 49,7 | 49,4 | 48,8 | 48   | 47,1 | 46   | 44   | 41,3 | 39,5 | 37    | 34,5  | 31,5 | 28,5 | 25,5 | 22,5 | 19,5 | 16,5 |
|                 |               |        |                      |                     | 15,2 | 16    | 16,8 | 17,4 | 18,4 | 19,3 | 20,6 | 21,8 | 23   | 24,2 | 25,7 | 27   | 28,7 | 30,5  | 32,5  | 34,5 | 36,5 | 38,5 | 40,5 | 42,5 | 44,5 |
|                 |               |        |                      |                     | 58,2 | 58,1  | 58   | 57,9 | 57,8 | 57,6 | 57,2 | 56,3 | 55,7 | 54,5 | 52,7 | 50,5 | 47,5 | 44,5  | 41,5  | 38,5 | 35,5 | 32,5 | 29,5 | 26,5 | 23,5 |
|                 |               |        |                      |                     | 17,8 | 18,75 | 19,7 | 20,5 | 21,7 | 22,9 | 24,4 | 25,9 | 27,4 | 28,8 | 30,9 | 32,7 | 34,5 | 36,5  | 38,5  | 40,5 | 42,5 | 44,5 | 46,5 | 48,5 | 50,5 |

| PUMP<br>B-N4    | PUMP<br>N4    | MOTOR  | P <sub>2</sub><br>kW | Q m <sup>3</sup> /h | 84    | 96   | 108   | 120   | 132  | 150   | 168   | 180   | 192   | 210   | 240  | 270   | 300   | 330   |      |      |      |      |      |      |      |
|-----------------|---------------|--------|----------------------|---------------------|-------|------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|------|------|------|------|------|------|
|                 |               |        |                      | Q l/min             | 1400  | 1600 | 1800  | 2000  | 2200 | 2500  | 2800  | 3000  | 3200  | 3500  | 4000 | 4500  | 5000  | 5500  |      |      |      |      |      |      |      |
| B-N4 125-250E/A | N4 125-250E/A | 132 S4 | 5,5                  | H <sub>m</sub>      | 11    | 10,8 | 10,5  | 10,1  | 9,7  | 9,1   | 8,3   | 7,8   | 7,2   | 6,2   | 4,4  |       |       |       |      |      |      |      |      |      |      |
|                 |               |        |                      |                     | 4,2   | 4,5  | 4,75  | 4,95  | 5,05 | 5,2   | 5,35  | 5,45  | 5,5   | 5,5   | 5,5  | 5,5   | 5,5   | 5,5   | 5,5  | 5,5  | 5,5  | 5,5  | 5,5  | 5,5  |      |
|                 |               |        |                      |                     | 14    | 13,9 | 13,7  | 13,4  | 13   | 12,4  | 11,6  | 11    | 10,4  | 9,4   | 7,4  | 5,1   |       |       |      |      |      |      |      |      |      |
|                 |               |        |                      |                     | 5,4   | 5,7  | 5,95  | 6,2   | 6,45 | 6,75  | 7     | 7,1   | 7,2   | 7,35  | 7,4  | 7,4   | 7,4   | 7,4   | 7,4  | 7,4  | 7,4  | 7,4  | 7,4  | 7,4  | 7,4  |
|                 |               |        |                      |                     | 16,7  | 16,6 | 16,4  | 16,2  | 15,9 | 15,4  | 14,6  | 14,1  | 13,5  | 12,5  | 10,4 | 8,2   | 5,8   |       |      |      |      |      |      |      |      |
|                 |               |        |                      |                     | 6,3   | 6,7  | 7,1   | 7,4   | 7,65 | 8,05  | 8,4   | 8,6   | 8,75  | 9     | 9,2  | 9,2   | 9,2   | 9,2   | 9,2  | 9,2  | 9,2  | 9,2  | 9,2  | 9,2  | 9,2  |
|                 |               |        |                      |                     | 19,3  | 19,2 | 19,1  | 18,9  | 18,7 | 18,2  | 17,5  | 17    | 16,3  | 15,3  | 13,3 | 10,9  | 8,2   |       |      |      |      |      |      |      |      |
|                 |               |        |                      |                     | 7,8   | 8,25 | 8,7   | 9,1   | 9,45 | 10    | 10,35 | 10,6  | 10,85 | 11,1  | 11,4 | 11,45 | 11,3  | 11,3  | 11,3 | 11,3 | 11,3 | 11,3 | 11,3 | 11,3 | 11,3 |
|                 |               |        |                      |                     | 22,7  | 22,7 | 22,6  | 22,4  | 22,2 | 21,8  | 21,2  | 20,8  | 20,1  | 19,33 | 17,4 | 15    | 12,4  | 9,3   |      |      |      |      |      |      |      |
|                 |               |        |                      |                     | 9,2   | 9,75 | 10,3  | 10,85 | 11,3 | 12    | 12,6  | 12,95 | 13,25 | 13,75 | 14,3 | 14,5  | 14,55 | 14,4  | 14,4 | 14,4 | 14,4 | 14,4 | 14,4 | 14,4 | 14,4 |
| 27,9            | 27,8          | 27,7   | 27,6                 | 27,2                | 26,5  | 25,6 | 24,9  | 24    | 22,8 | 20,2  | 17    | 13,5  | 9,5*  |       |      |       |       |       |      |      |      |      |      |      |      |
| 11,5            | 12,15         | 12,8   | 13,4                 | 14                  | 14,7  | 15,4 | 15,8  | 16,2  | 16,7 | 17,3  | 17,7  | 18    | 18    | 18    | 18   | 18    | 18    | 18    | 18   | 18   |      |      |      |      |      |
| B-N4 125-315C/A | N4 125-315C/A | 180 M4 | 18,5                 | H <sub>m</sub>      | 31,8  | 31,7 | 31,6  | 31,5  | 31,1 | 30,6  | 29,7  | 29,1  | 28,5  | 27,3  | 24,9 | 22    | 18,5  | 14,3* |      |      |      |      |      |      |      |
|                 |               |        |                      |                     | 12,75 | 13,6 | 14,45 | 15,3  | 15,9 | 16,8  | 17,7  | 18,4  | 19    | 19,7  | 20,6 | 21,4  | 22    | 22    | 22   | 22   | 22   | 22   | 22   | 22   |      |
|                 |               |        |                      |                     | 36,8  | 36,8 | 36,7  | 36,6  | 36,4 | 35,9  | 35,2  | 34,7  | 34,2  | 33,2  | 31   | 28,4  | 25,3  | 21,6* |      |      |      |      |      |      |      |
|                 |               |        |                      |                     | 15,5  | 16,5 | 17,5  | 18,3  | 19,1 | 20,4  | 21,6  | 22,4  | 23,1  | 24,15 | 25,6 | 28,4  | 31,6  | 35,6  | 40,6 | 45,6 | 50,6 | 55,6 | 60,6 | 65,6 | 70,6 |
|                 |               |        |                      |                     | 45,4  | 45,3 | 45,2  | 45,1  | 44,9 | 44,4  | 43,7  | 43    | 42    | 40    | 37   | 33    | 28,5* | 23,5* |      |      |      |      |      |      |      |
|                 |               |        |                      |                     | 19,4  | 20,7 | 22    | 23,3  | 24,6 | 26,5  | 28,2  | 29,3  | 30,2  | 31,4  | 33,4 | 35    | 35,9  | 36,75 |      |      |      |      |      |      |      |
|                 |               |        |                      |                     | 51,4  | 51,3 | 51,2  | 51,1  | 50,9 | 50,4  | 49,7  | 49    | 48,2  | 46,8  | 44   | 40,5  | 36*   | 31,5* |      |      |      |      |      |      |      |
|                 |               |        |                      |                     | 22,9  | 24,3 | 25,7  | 27,1  | 28,4 | 30,35 | 32,2  | 33,3  | 34,4  | 36    | 38,5 | 41    | 43    | 44,5  | 46,5 | 48,5 | 50,5 | 52,5 | 54,5 | 56,5 | 58,5 |
|                 |               |        |                      |                     | 59,2  | 59,1 | 59    | 58,9  | 58,7 | 58,2  | 57,7  | 57,2  | 56,7  | 55,7  | 53,5 | 50,5  | 46,5  | 42,5  | 38,5 | 34,5 | 30,5 | 26,5 | 22,5 | 18,5 | 14,5 |
|                 |               |        |                      |                     | 27,8  | 29,4 | 30,9  | 32,4  | 33,9 | 36,2  | 38,4  | 39,8  | 41,2  | 43,2  | 46,2 | 49,2  | 52,2  | 55,2  | 58,2 | 61,2 | 64,2 | 67,2 | 70,2 | 73,2 | 76,2 |

| PUMP<br>B-N4    | PUMP<br>N4    | MOTOR  | P <sub>2</sub><br>kW | Q m <sup>3</sup> /h | 132  | 150   | 168  | 180   | 192   | 210  | 240   | 270  | 300  | 330   | 360   | 390  | 420   | 450   | 480   |       |       |       |       |       |      |
|-----------------|---------------|--------|----------------------|---------------------|------|-------|------|-------|-------|------|-------|------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|                 |               |        |                      | Q l/min             | 2200 | 2500  | 2800 | 3000  | 3200  | 3500 | 4000  | 4500 | 5000 | 5500  | 6000  | 6500 | 7000  | 7500  | 8000  |       |       |       |       |       |      |
| B-N4 150-315D/A | N4 150-315D/A | 180 M4 | 18,5                 | H <sub>m</sub>      | 22,8 | 22,6  | 22,3 | 22    | 21,7  | 21,1 | 20    | 18,6 | 17   | 15,1  | 13    | 10,6 | 8*    |       |       |       |       |       |       |       |      |
|                 |               |        |                      |                     | 13,8 | 14,5  | 15   | 15,4  | 15,75 | 16,2 | 16,9  | 17,6 | 18   | 18,35 | 18,45 | 18,4 | 18,15 | 18,15 | 18,15 | 18,15 | 18,15 | 18,15 | 18,15 | 18,15 |      |
|                 |               |        |                      |                     | 25,6 | 25,4  | 25,1 | 24,9  | 24,7  | 24,2 | 23,3  | 22   | 20,4 | 18,5  | 16,5  | 14,1 | 11,6* | 8,9*  |       |       |       |       |       |       |      |
|                 |               |        |                      |                     | 15,6 | 16,44 | 17,2 | 17,65 | 18,1  | 18,8 | 19,7  | 20,6 | 21,3 | 21,75 | 22    | 22   | 22    | 22    | 22    | 22    | 22    | 22    | 22    | 22    | 22   |
|                 |               |        |                      |                     | 30,6 | 30,6  | 30,5 | 30,3  | 30,1  | 29,7 | 29    | 27,9 | 26,5 | 24,9  | 23    | 20,8 | 18,3* | 15,4* |       |       |       |       |       |       |      |
|                 |               |        |                      |                     | 19   | 20    | 21   | 21,6  | 22,15 | 23   | 24,35 | 25,7 | 26,6 | 27,5  | 28,1  | 28,7 | 29,3  | 29,9  | 30,5  | 31,1  | 31,7  | 32,3  | 32,9  | 33,5  | 34,1 |
|                 |               |        |                      |                     | 35,6 | 35,6  | 35,5 | 35,4  | 35,3  | 35,2 | 34,6  | 33,7 | 32,5 | 31    | 29,2  | 27,1 | 24,7* | 21,8* |       |       |       |       |       |       |      |
|                 |               |        |                      |                     | 23,1 | 24,4  | 25,7 | 26,5  | 27,2  | 28,3 | 30    | 31,6 | 33,1 | 34,3  | 35,4  | 36,3 | 37,1  | 37,9  | 38,7  | 39,5  | 40,3  | 41,1  | 41,9  | 42,7  | 43,5 |
|                 |               |        |                      |                     | 45   | 44,9  | 44,7 | 44,5  | 44    | 43,5 | 42,5  | 40,5 | 38,5 | 36    | 33,5  | 30,5 | 27*   | 23,5* |       |       |       |       |       |       |      |
|                 |               |        |                      |                     | 27,9 | 29,65 | 31,4 | 32,6  | 33,8  | 35,3 | 37,7  | 39,7 | 41,3 | 42,7  | 44,3  | 45,9 | 47,5  | 49,1  | 50,7  | 52,3  | 53,9  | 55,5  | 57,1  | 58,7  | 60,3 |
| 50,8            | 50,7          | 50,5   | 50,3                 | 50                  | 49,5 | 48,5  | 47   | 45    | 43    | 40,5 | 38    | 35*  | 32*  |       |       |      |       |       |       |       |       |       |       |       |      |
| 31,4            | 33,6          | 35,8   | 36,9                 | 38,2                | 40   | 42,8  | 45,5 | 47,7  | 49,8  | 51,5 | 53    | 54,1 | 54,6 | 54,8  | 54,8  | 54,8 | 54,8  | 54,8  | 54,8  | 54,8  |       |       |       |       |      |
| 58,8            | 58,7          | 58,6   | 58,5                 | 58,3                | 57,9 | 57    | 55,5 | 54    | 52    | 49,5 | 47    | 44*  | 41*  |       |       |      |       |       |       |       |       |       |       |       |      |
| 38,2            | 40,7          | 42,8   | 44,35                | 45,7                | 48   | 51,5  | 54,4 | 57,1  | 59,7  | 62   | 64,2  | 66   | 67,5 | 68,4  |       |      |       |       |       |       |       |       |       |       |      |

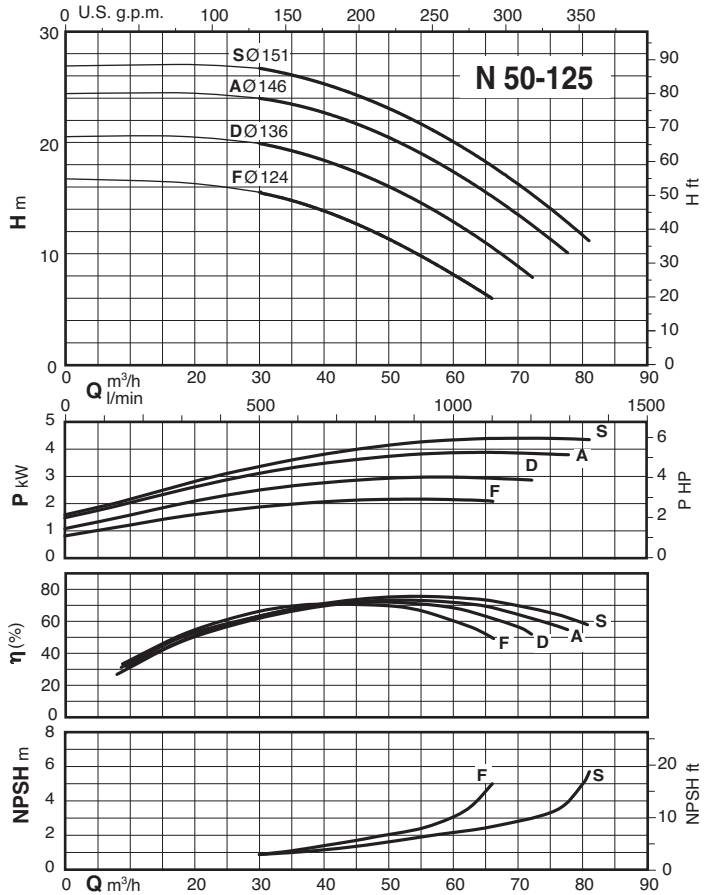
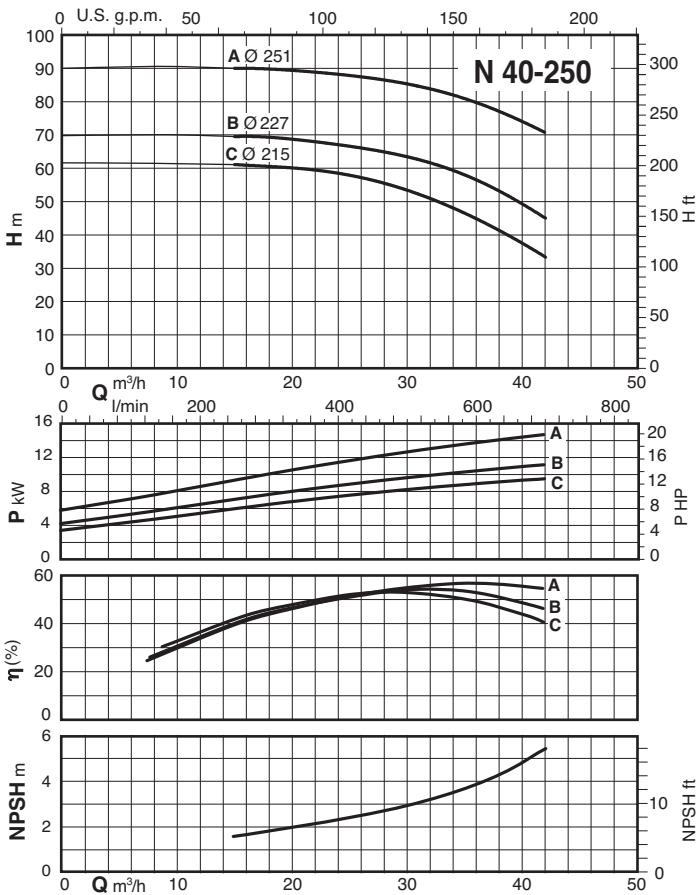
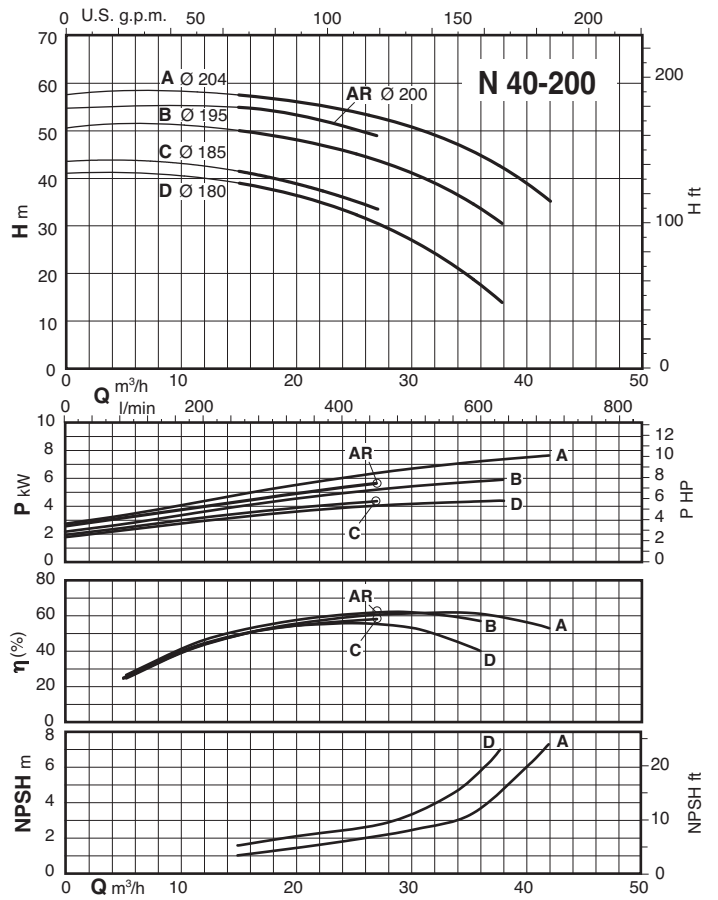
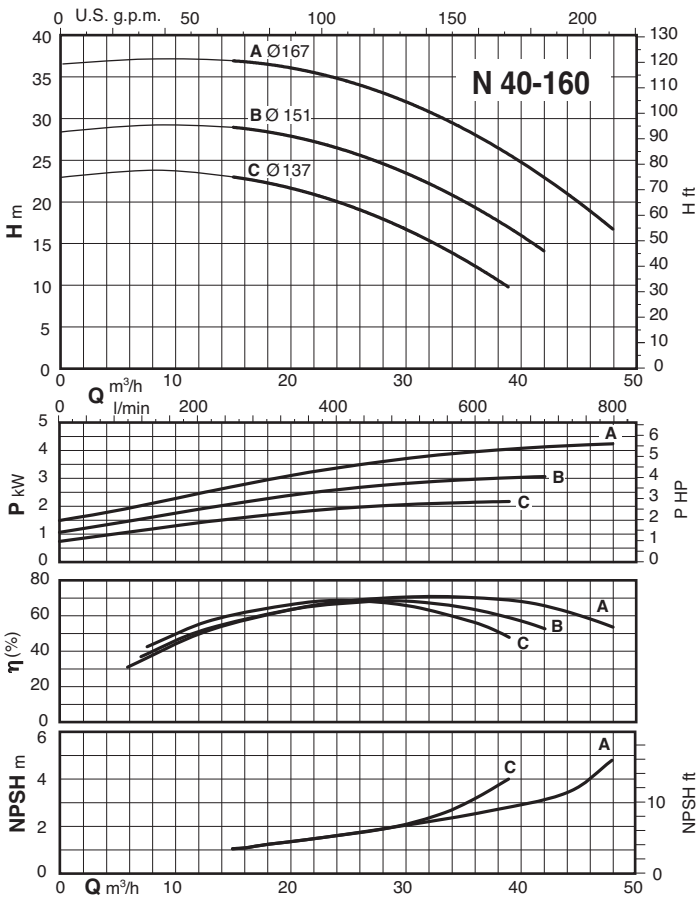
**N4** Standard construction.      P<sub>2</sub> Rated motor power output.      H Total head in m.      \* Maximum suction lift 1-2 m.  
**B-N4** Bronze construction.      P<sub>3</sub> Pump power input.

**Characteristic curves  $n \approx 2900$  rpm**





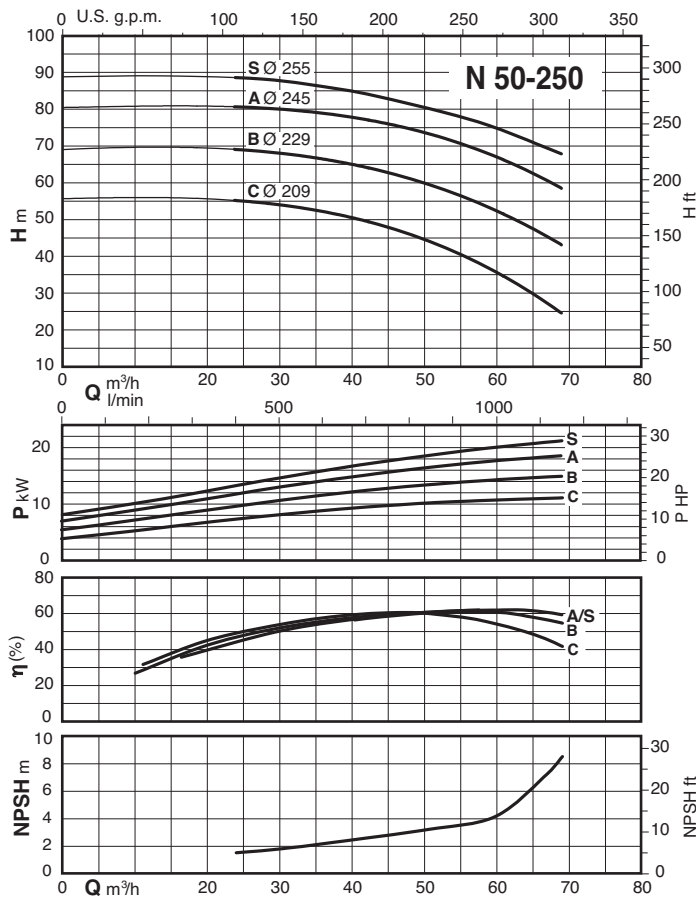
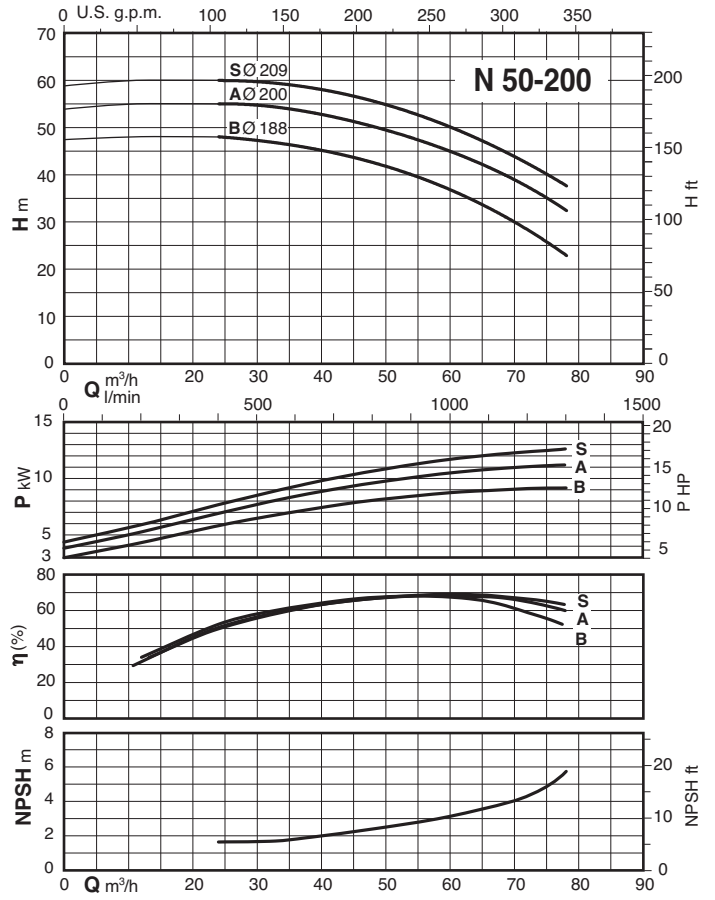
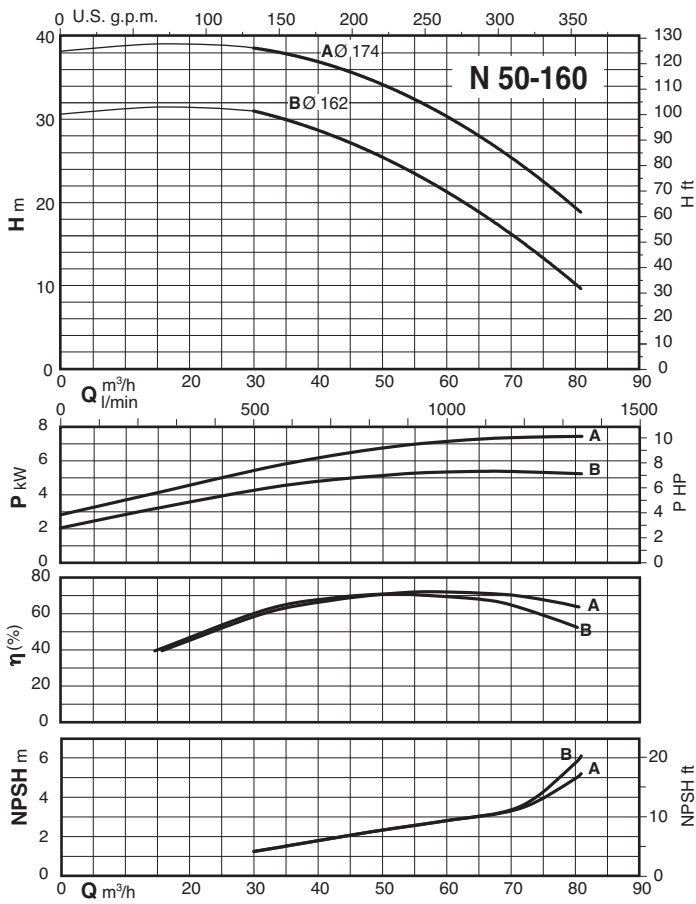
Characteristic curves  $n \approx 2900$  rpm



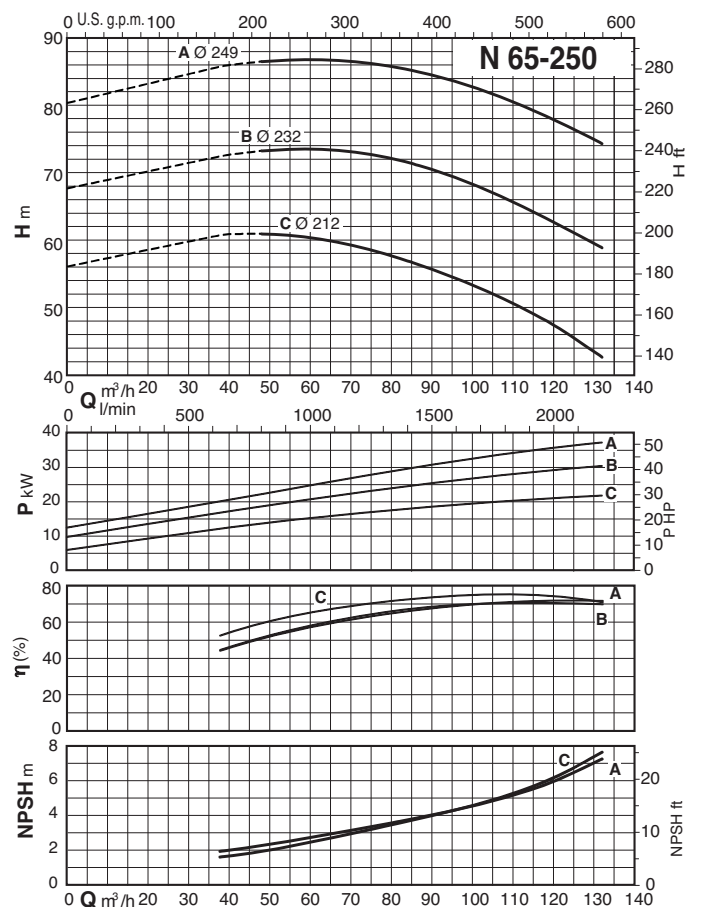
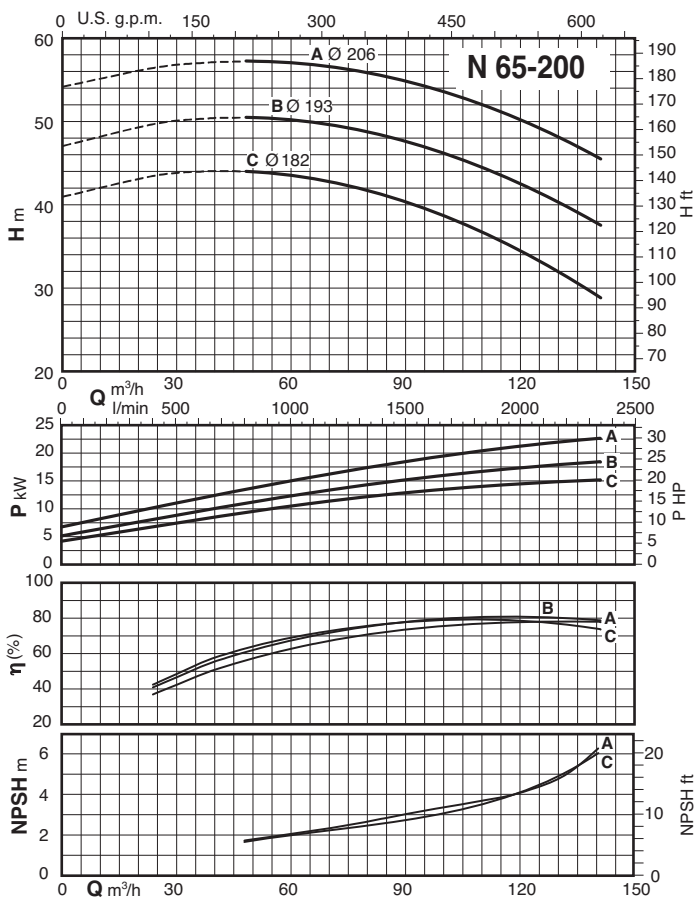
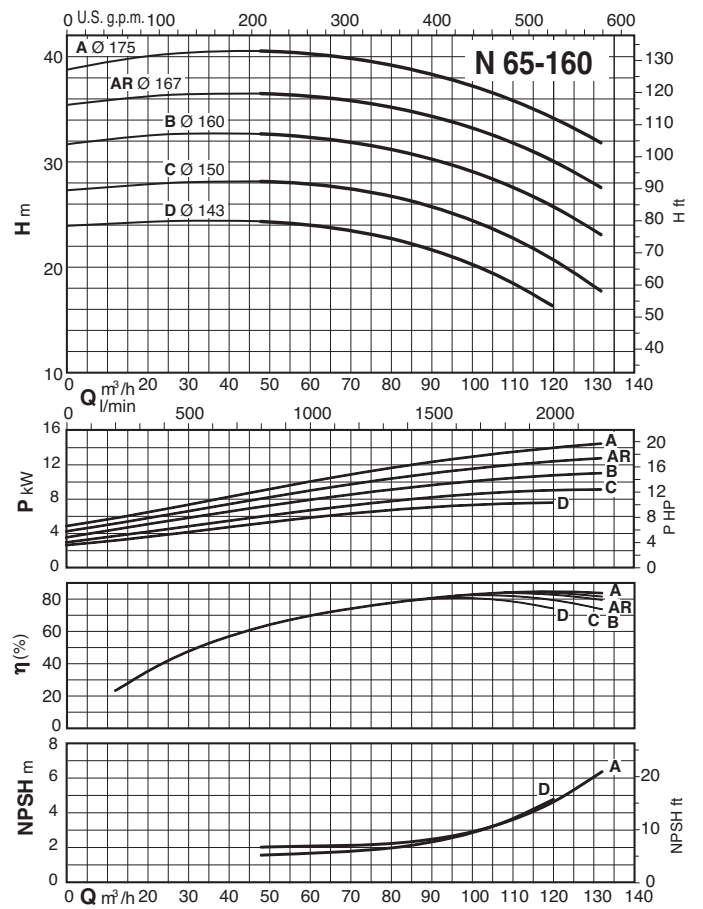
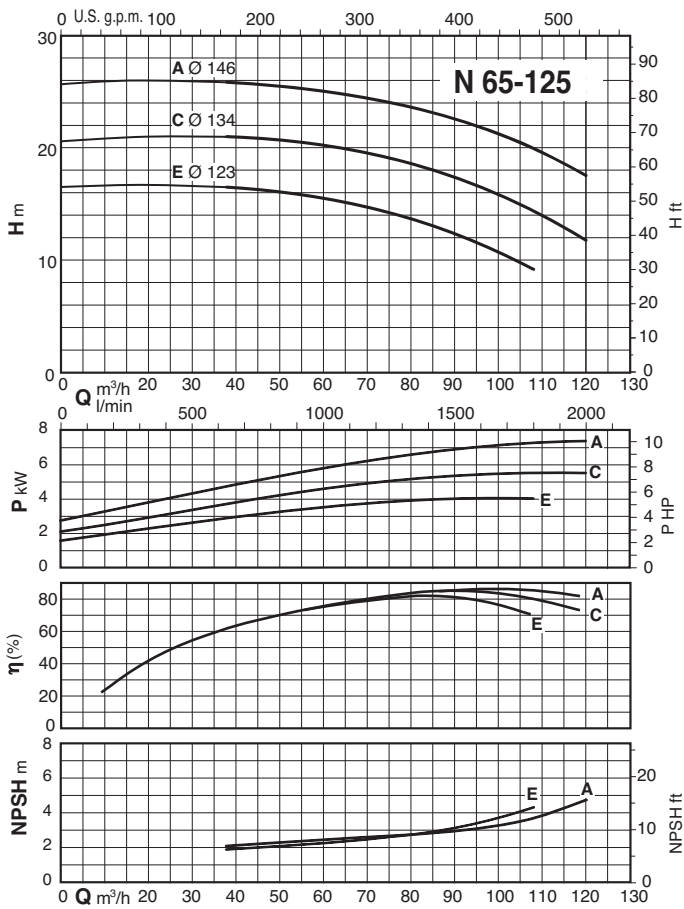




Characteristic curves  $n \approx 2900$  rpm

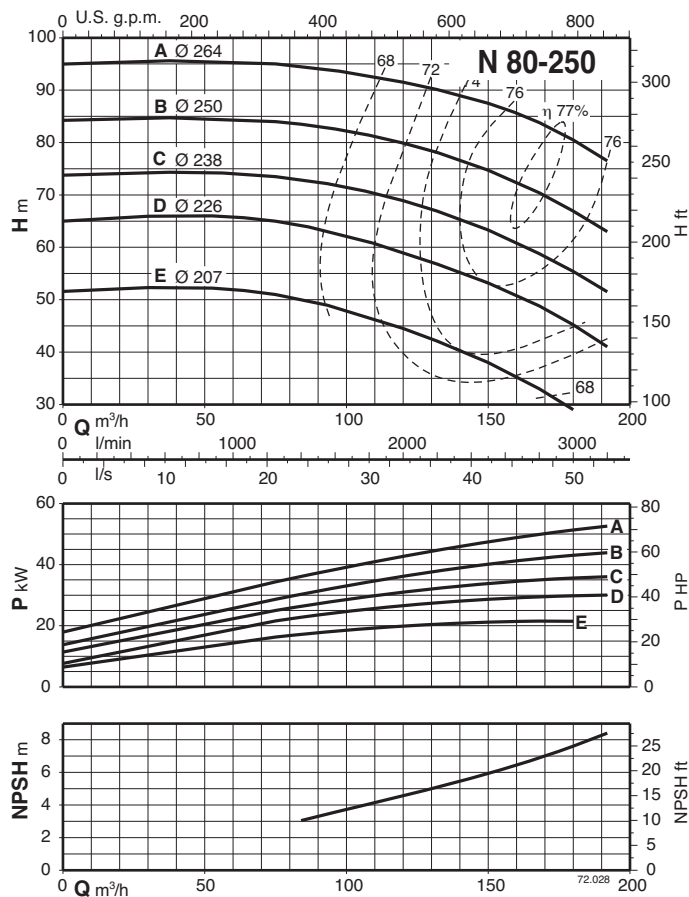
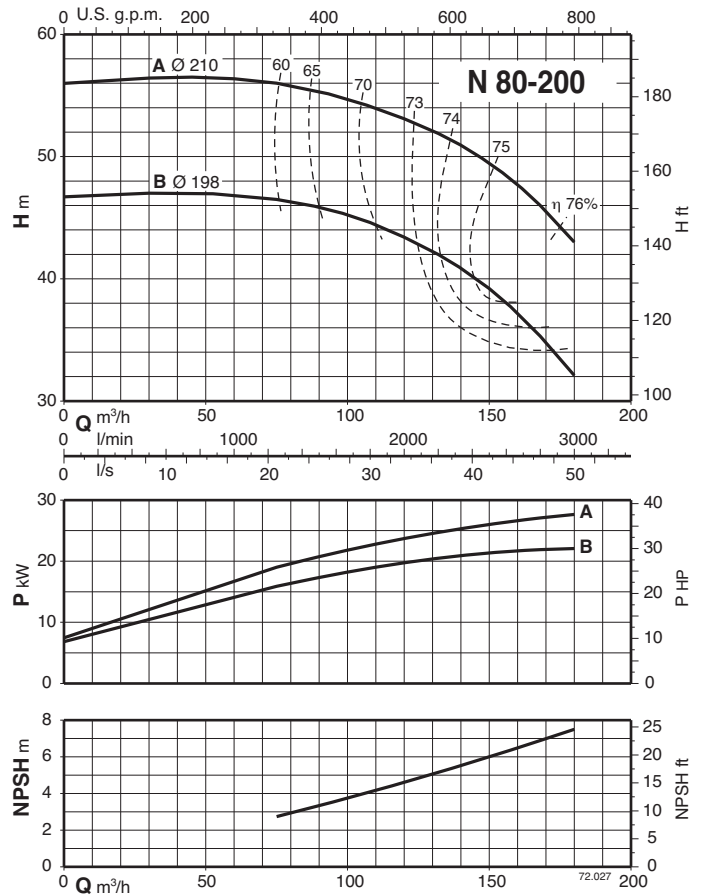
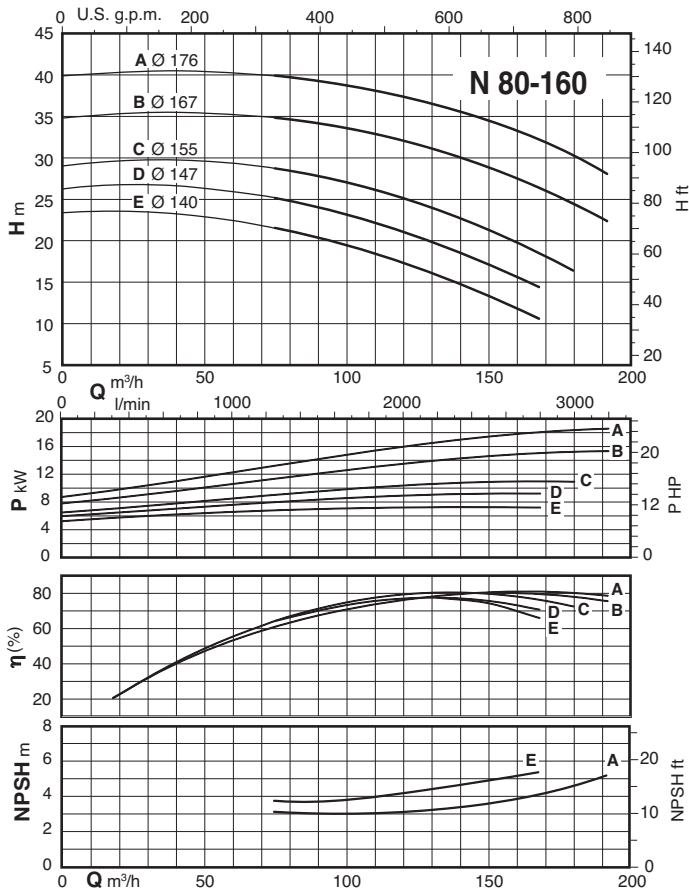


**Characteristic curves  $n \approx 2900$  rpm**

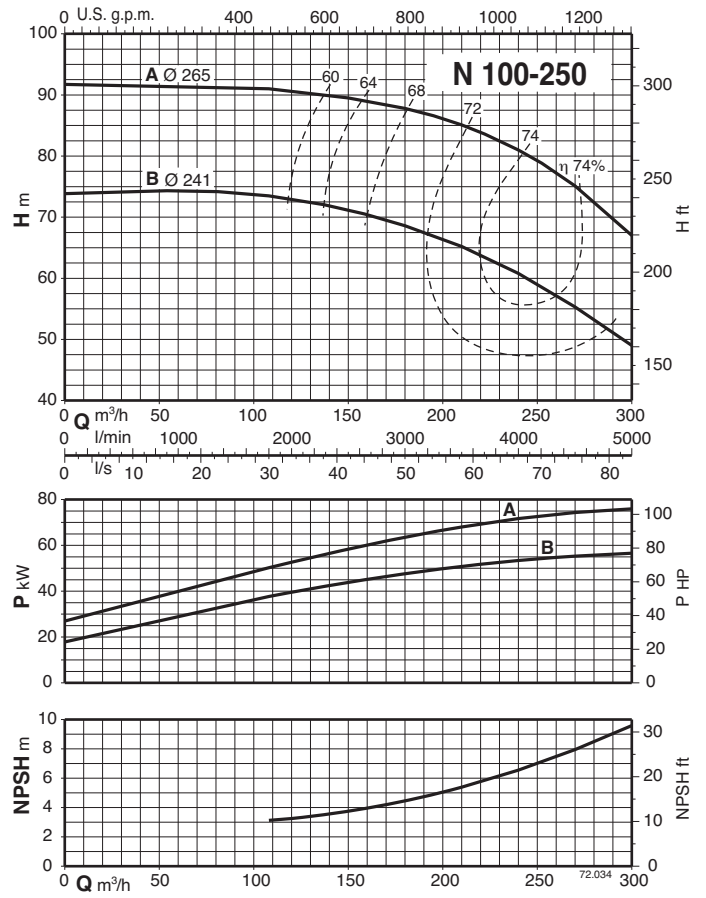
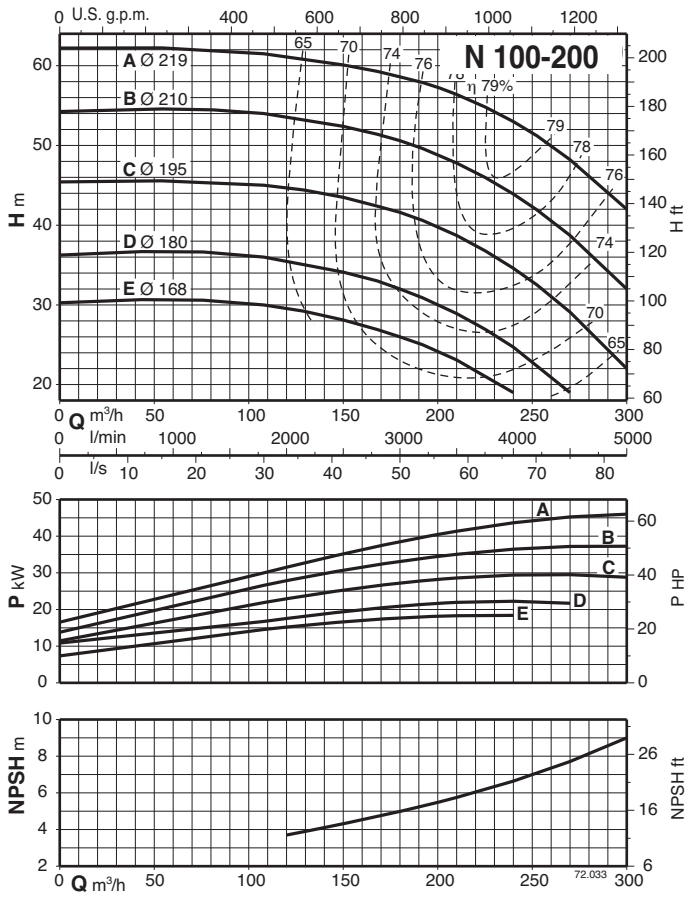




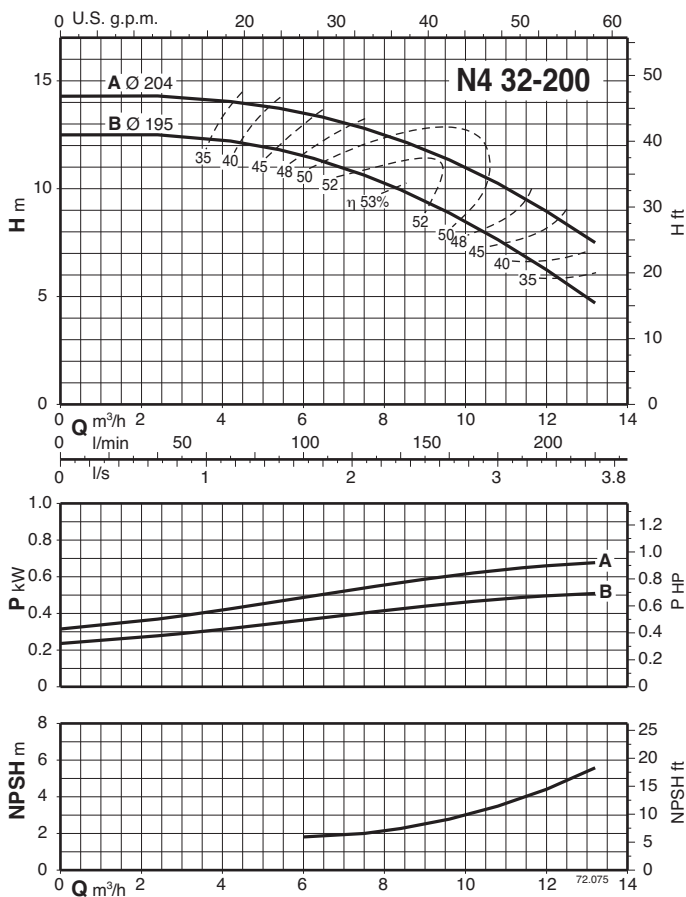
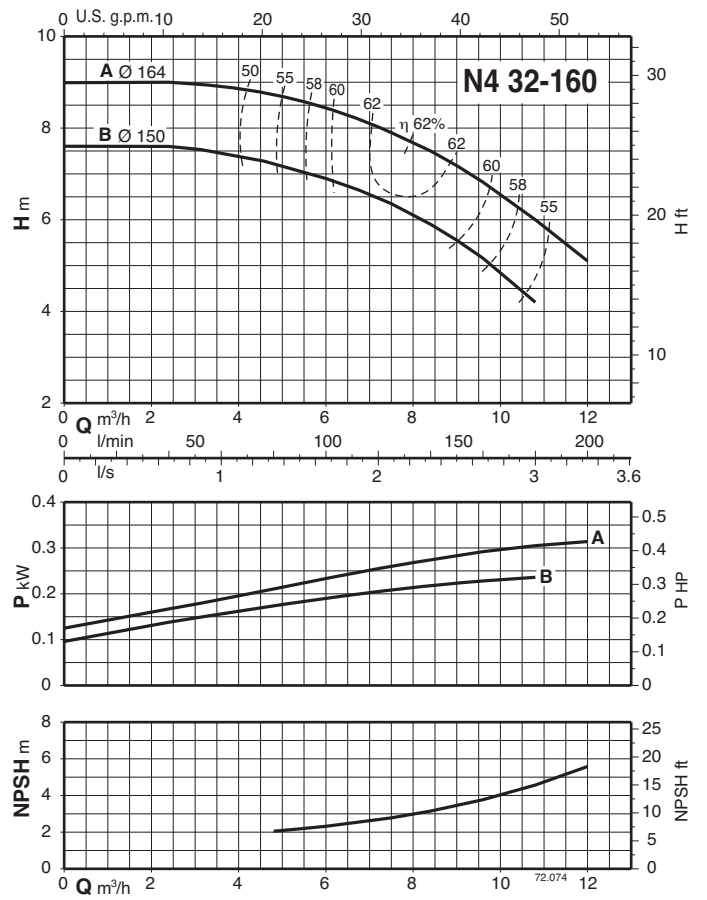
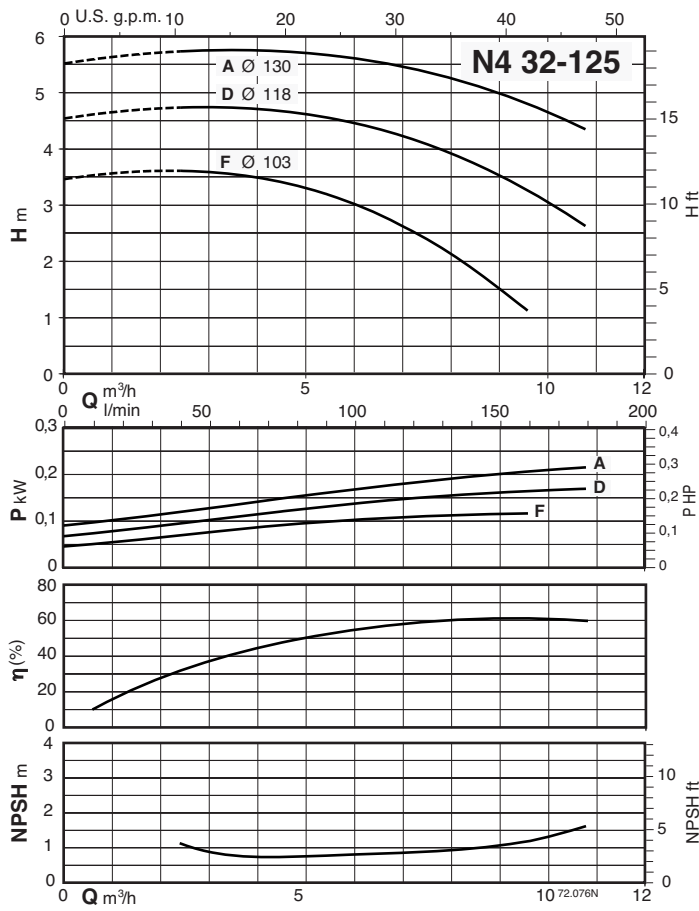
Characteristic curves  $n \approx 2900$  rpm



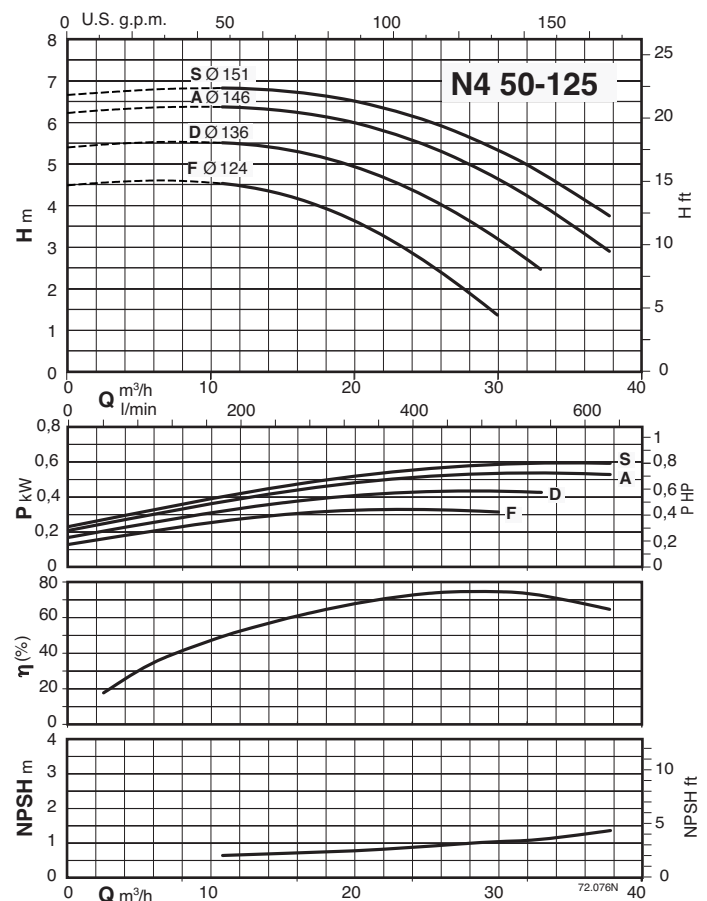
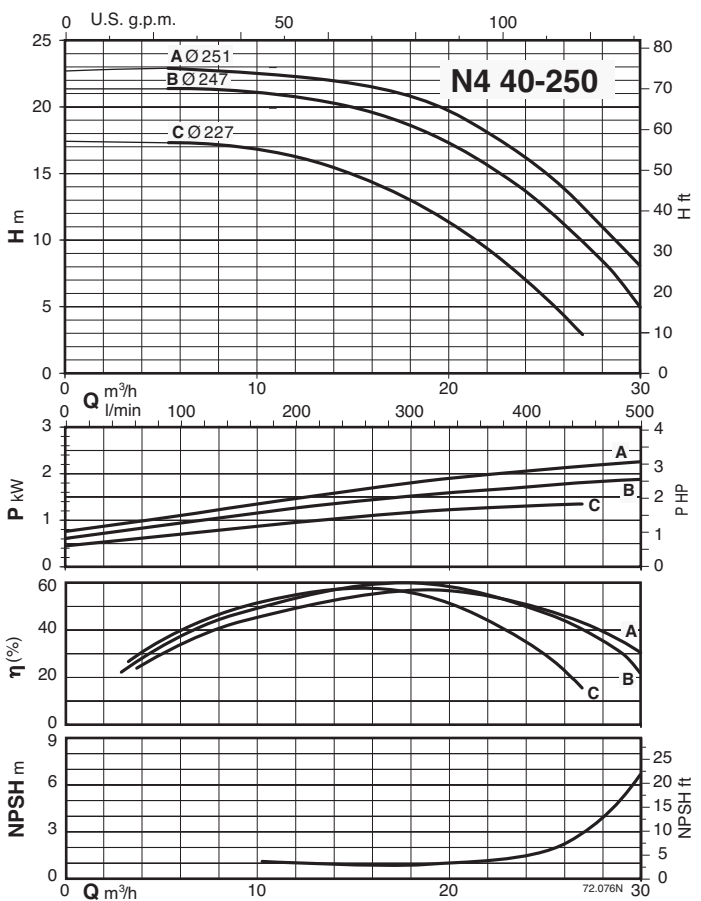
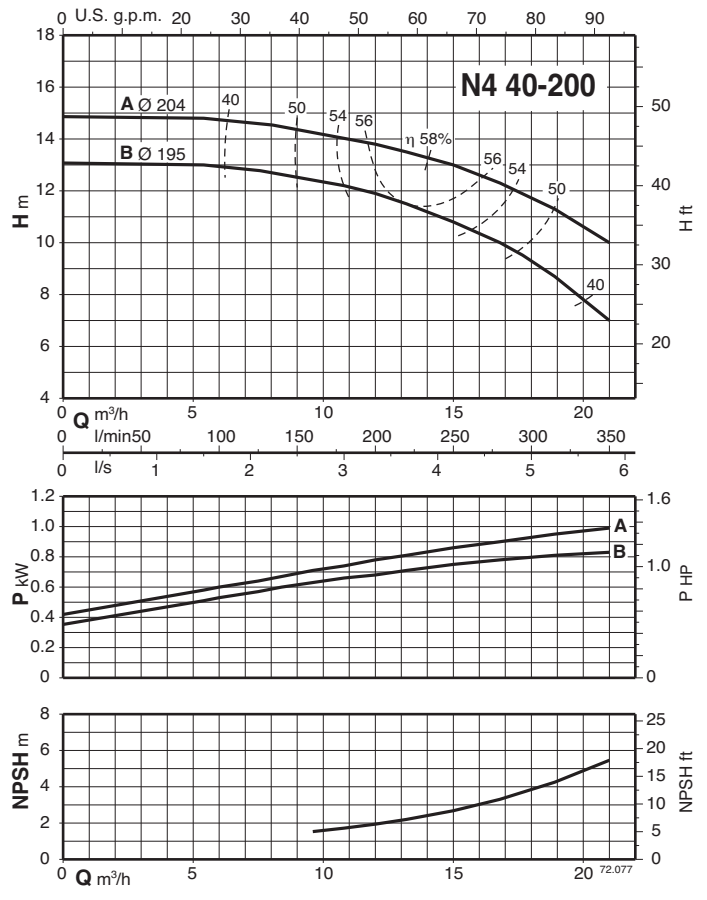
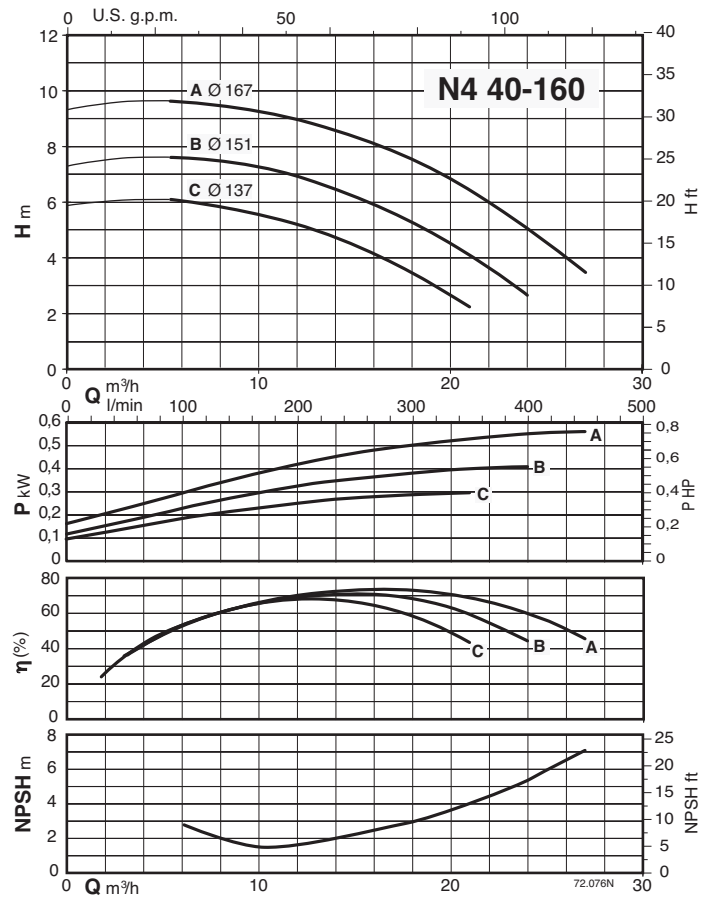
**Characteristic curves  $n \approx 2900$  rpm**



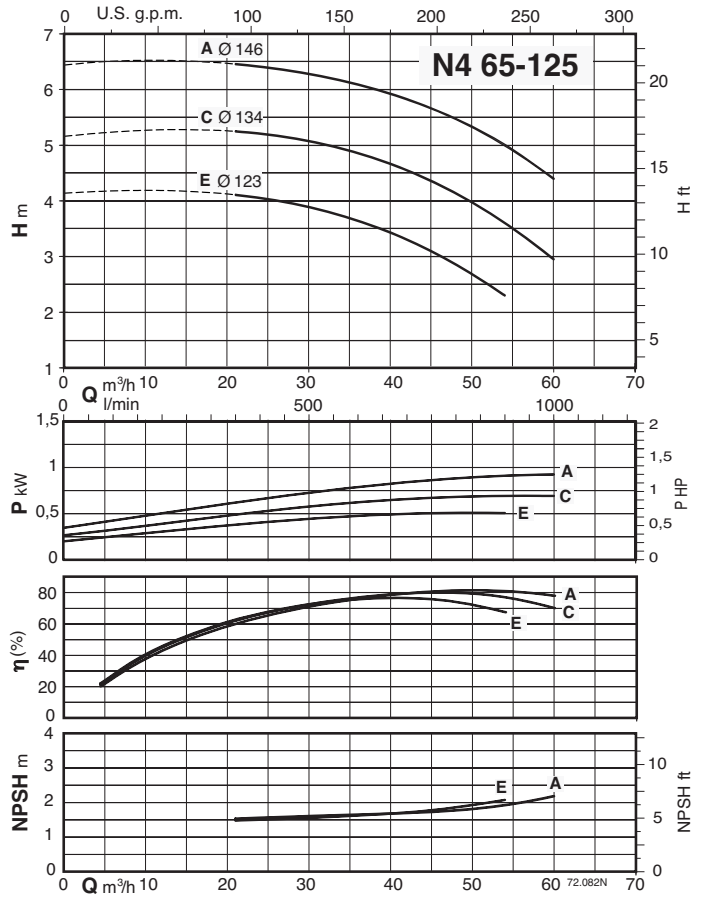
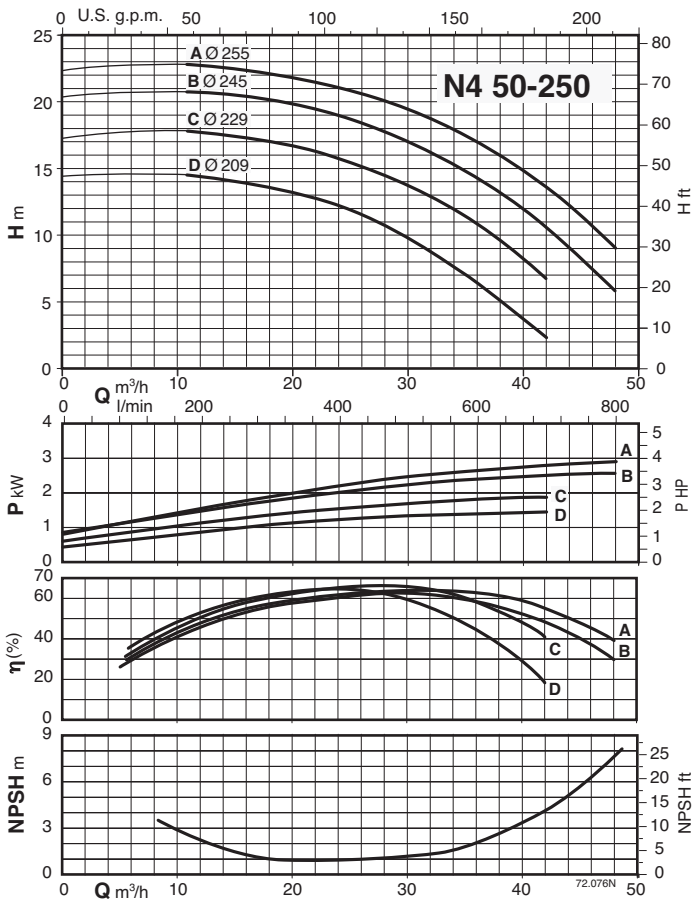
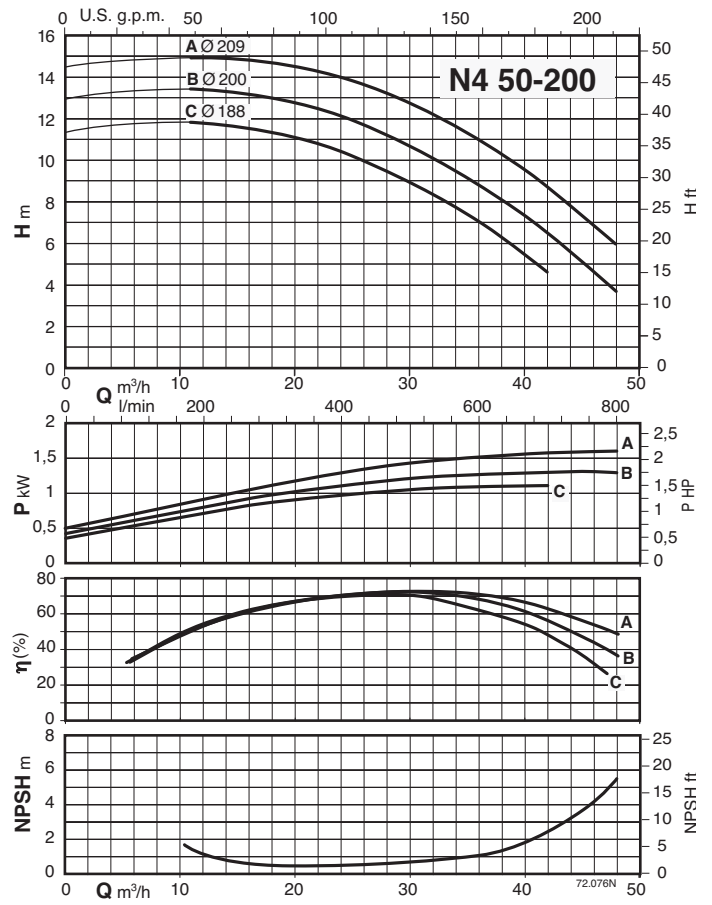
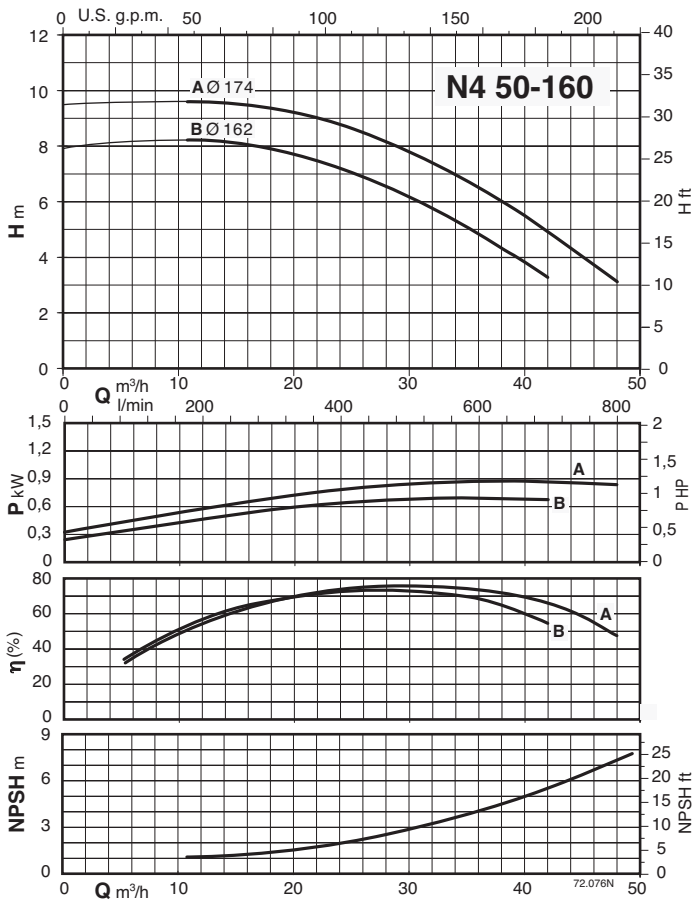
### Characteristic curves $n \approx 1450$ rpm



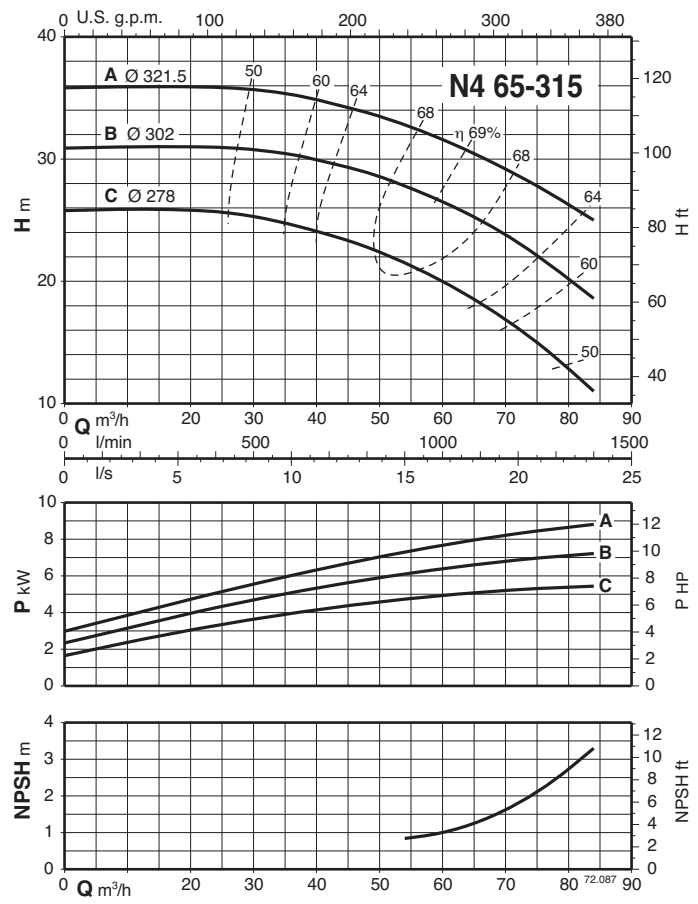
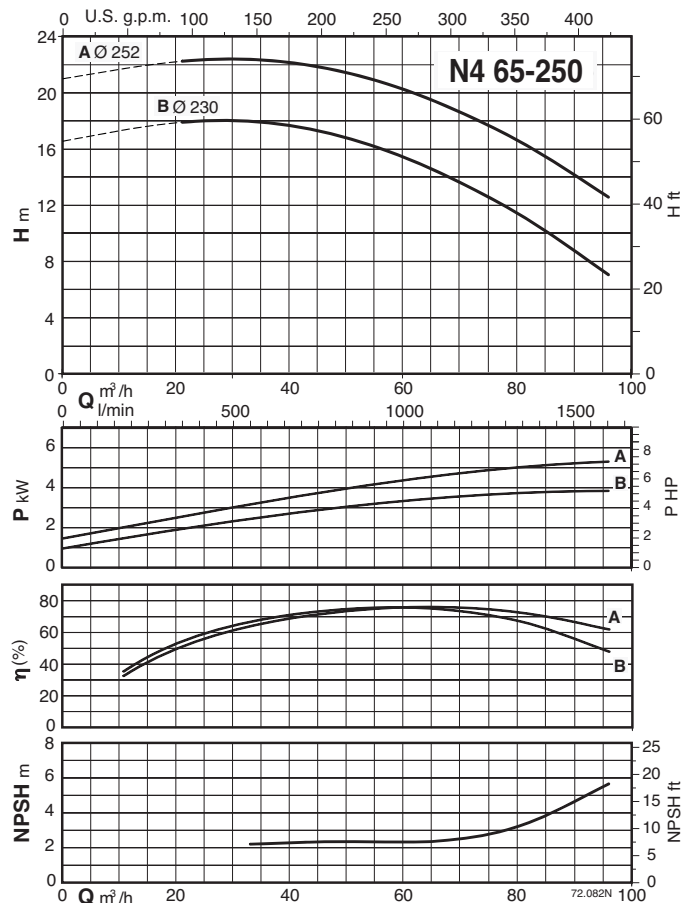
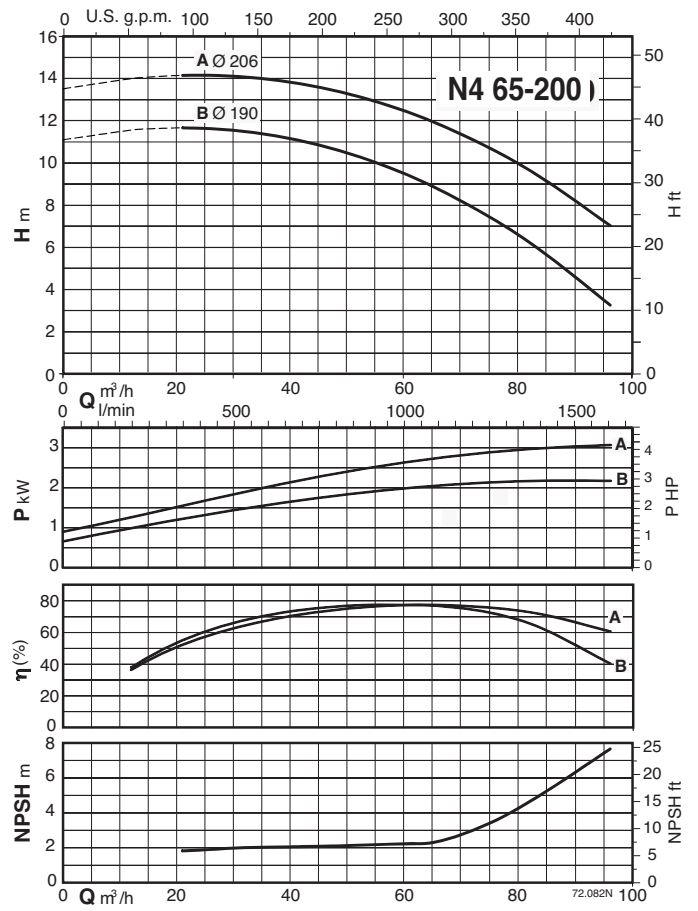
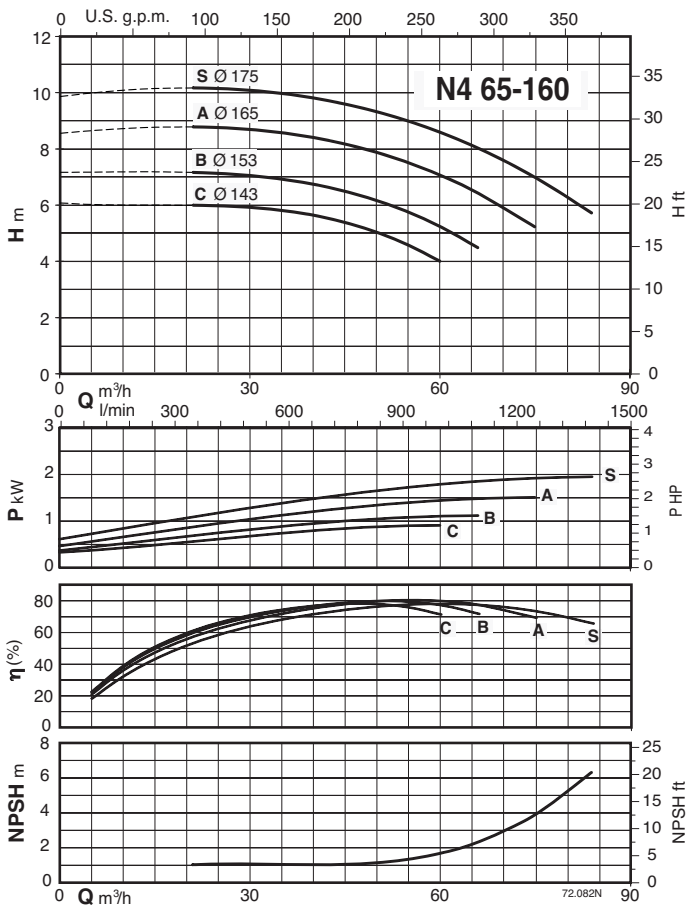
### Characteristic curves $n \approx 1450$ rpm



### Characteristic curves $n \approx 1450$ rpm

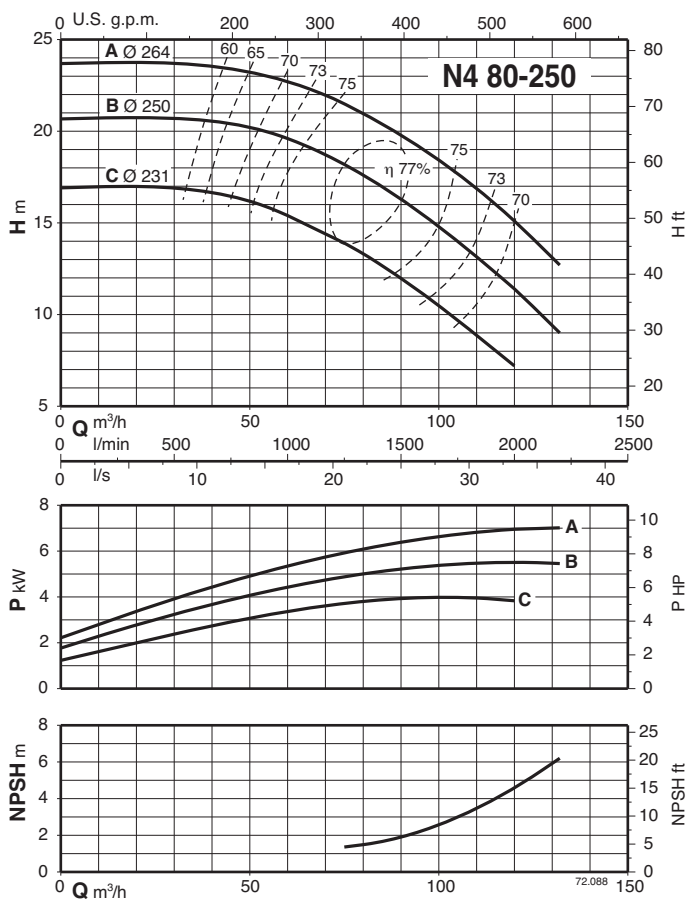
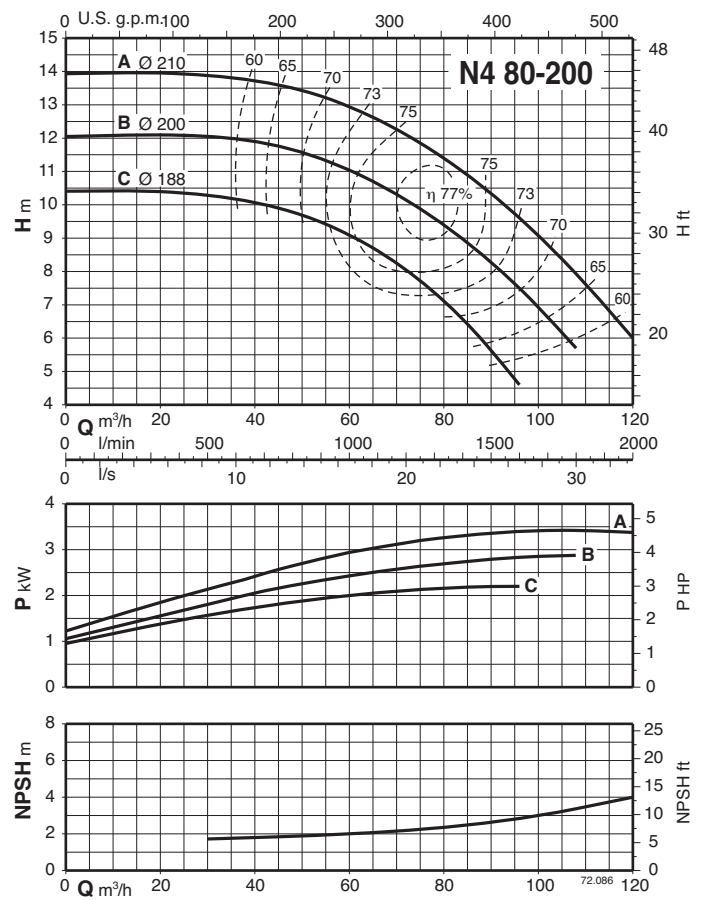
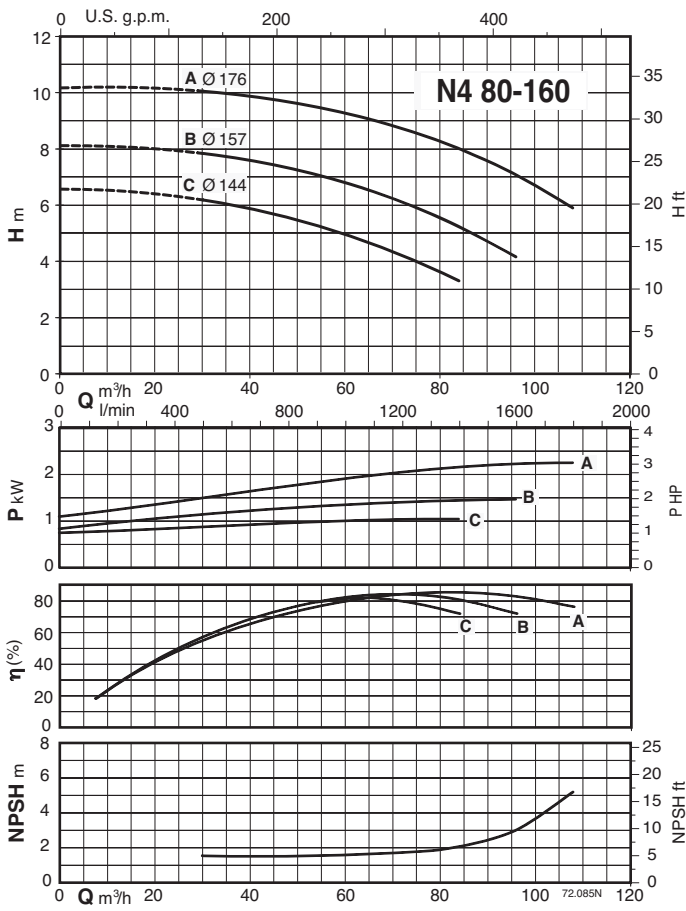


### Characteristic curves $n \approx 1450$ rpm

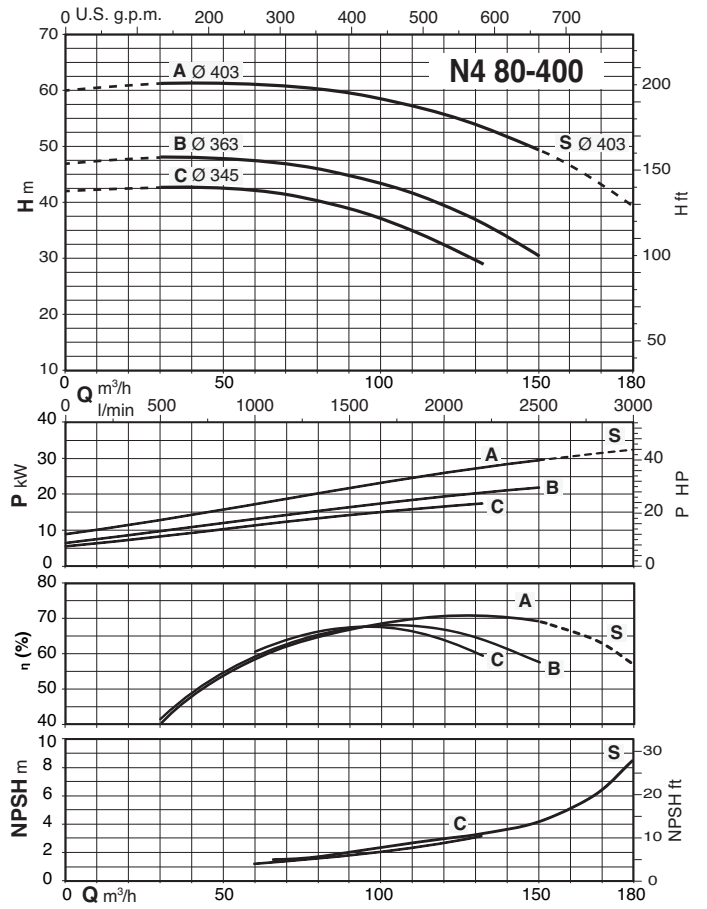
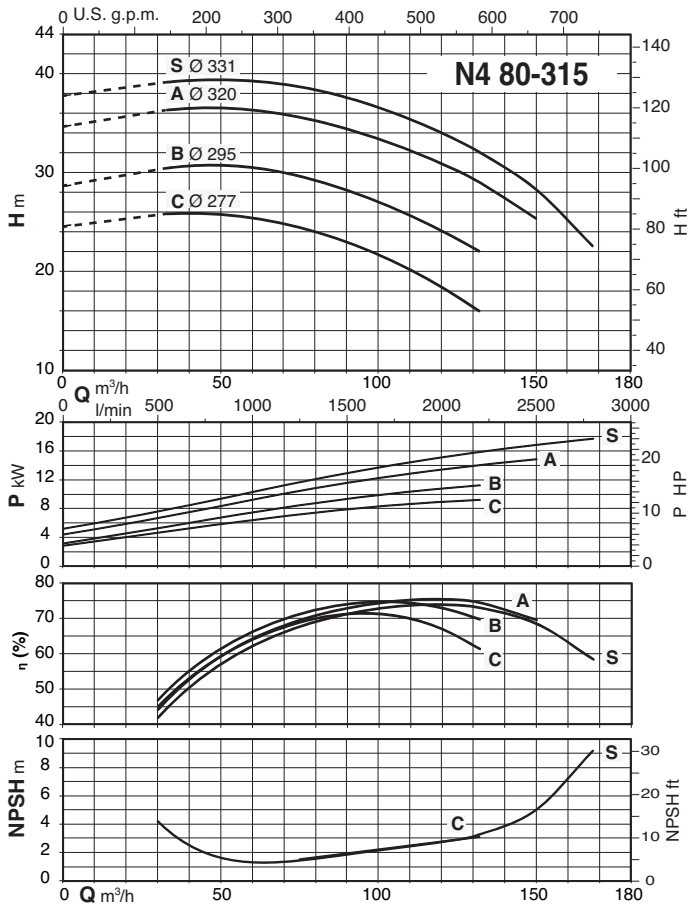




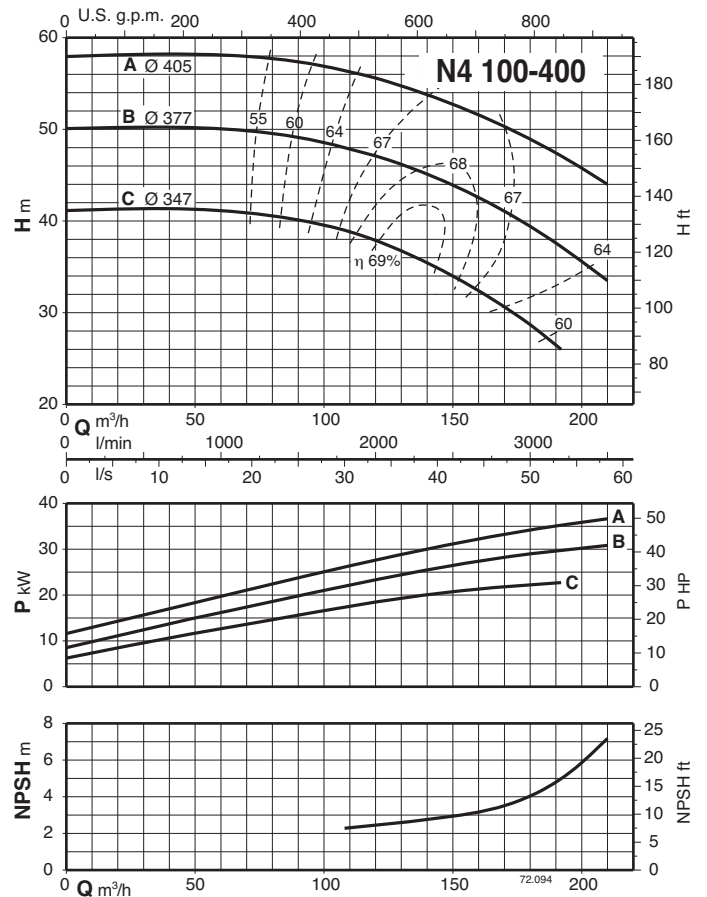
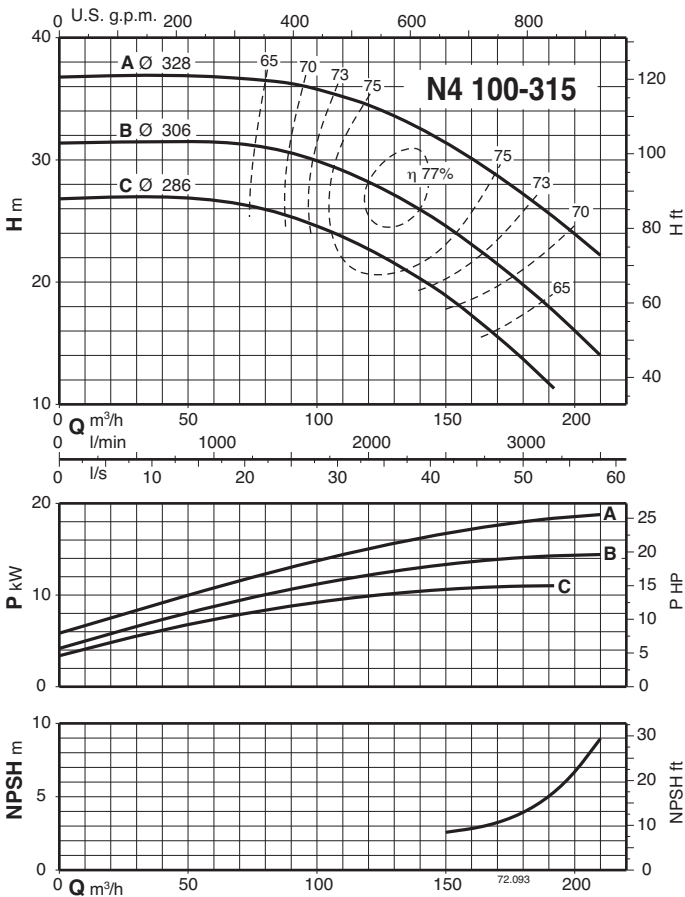
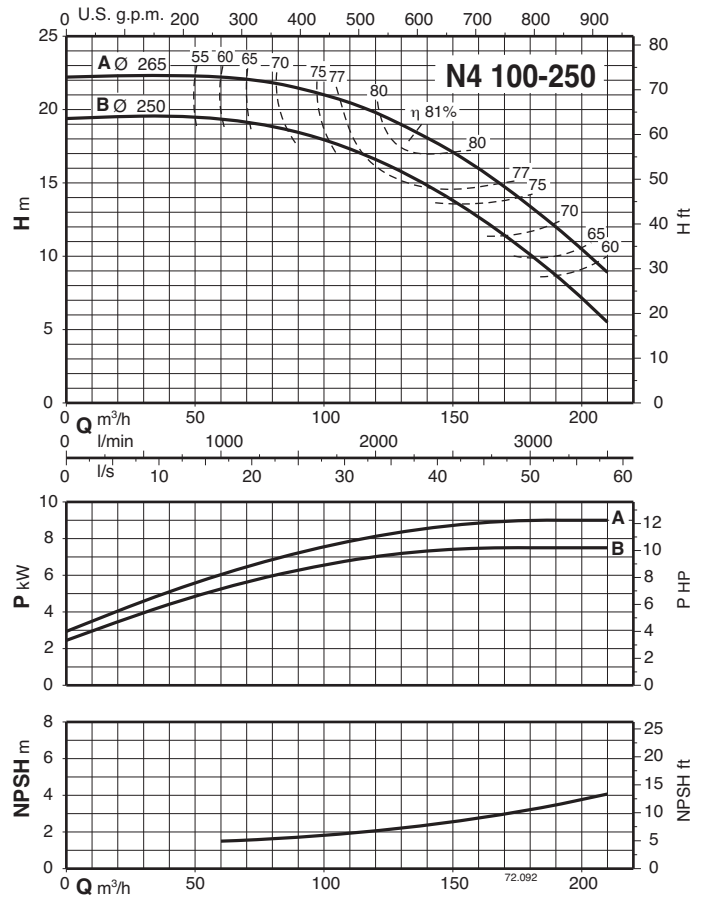
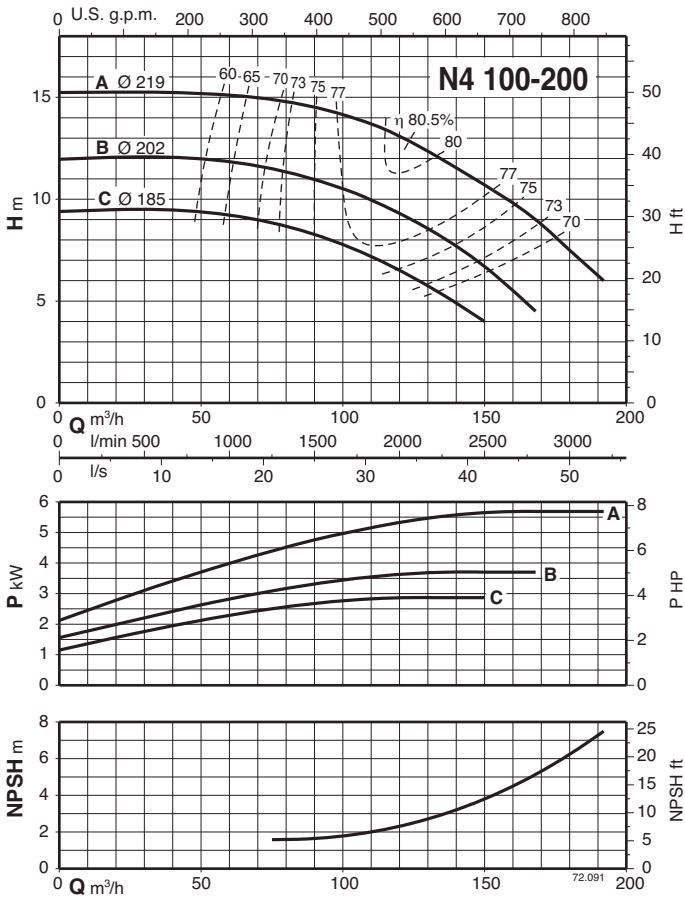
### Characteristic curves $n \approx 1450$ rpm



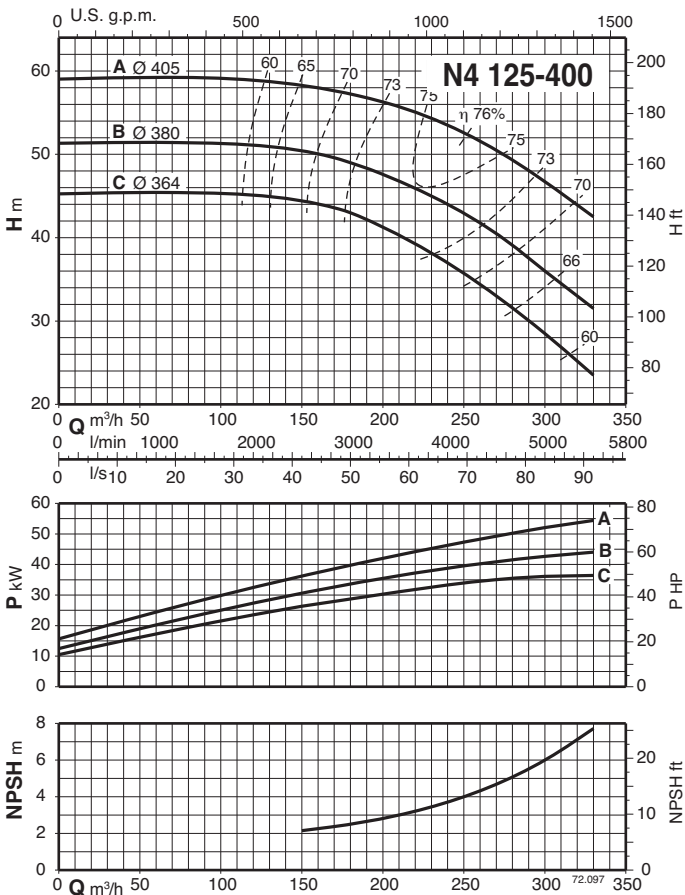
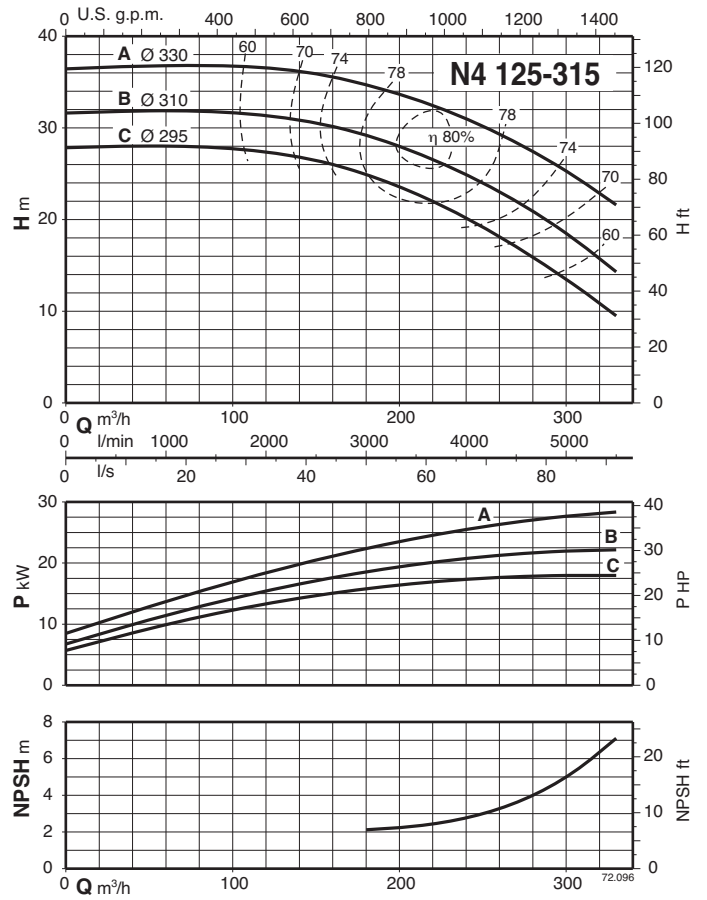
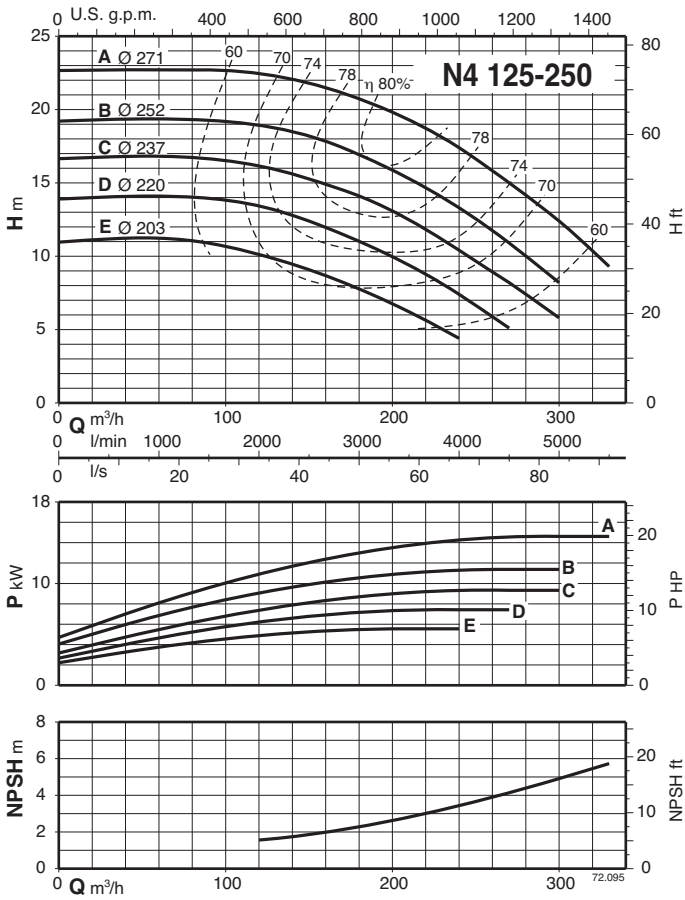
### Characteristic curves $n \approx 1450$ rpm



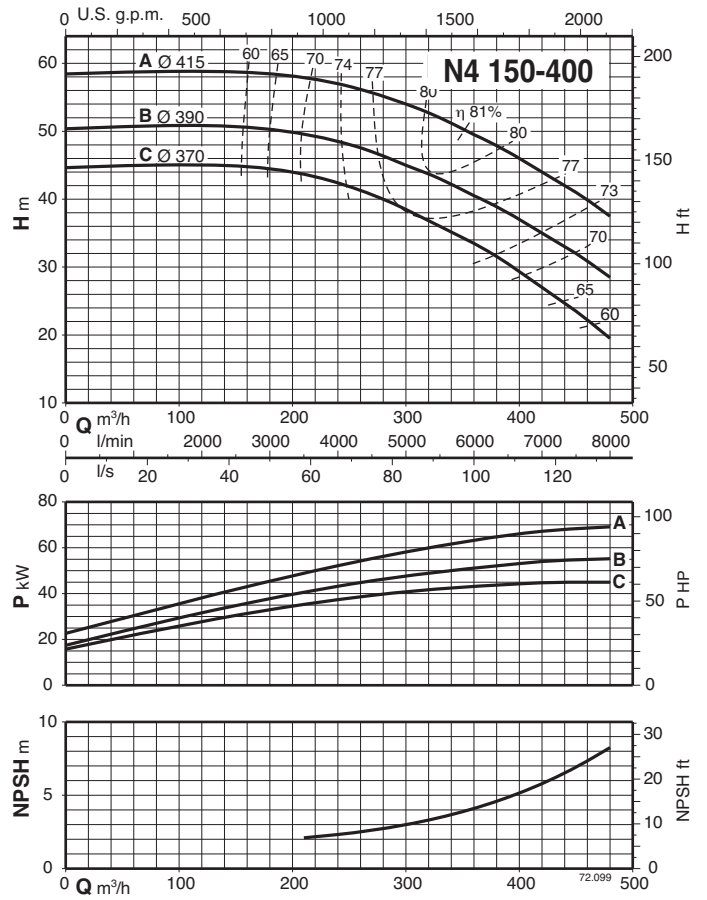
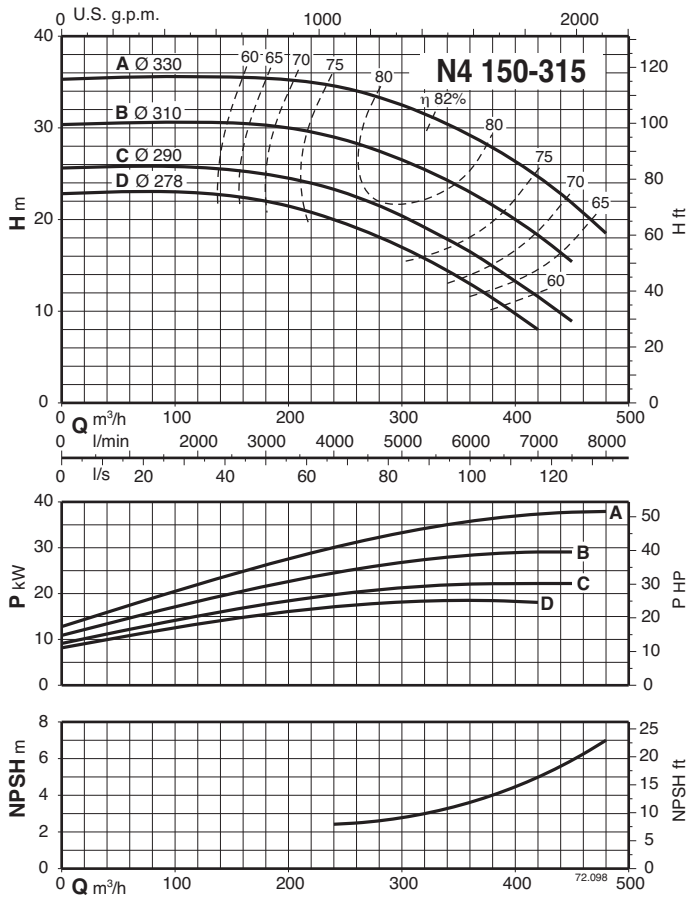
### Characteristic curves $n \approx 1450$ rpm



### 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<br>6306 Z | 6207 Z<br>3306 | 6309 Z<br>3309 | 6311 Z<br>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    |

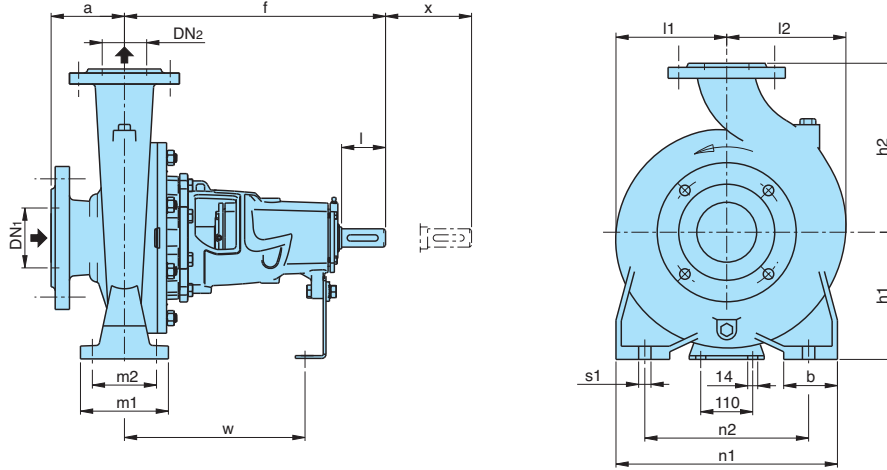
### Maximum permissible rotation speed

| 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 |

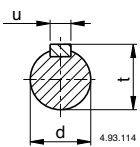
### Suction pipe: recommended minimum inside diameter (DN) for different capacities (Q)

| 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

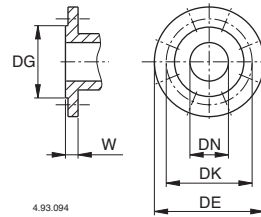


Shaft extension ISO 775 Parallel key UNI 6604



| 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



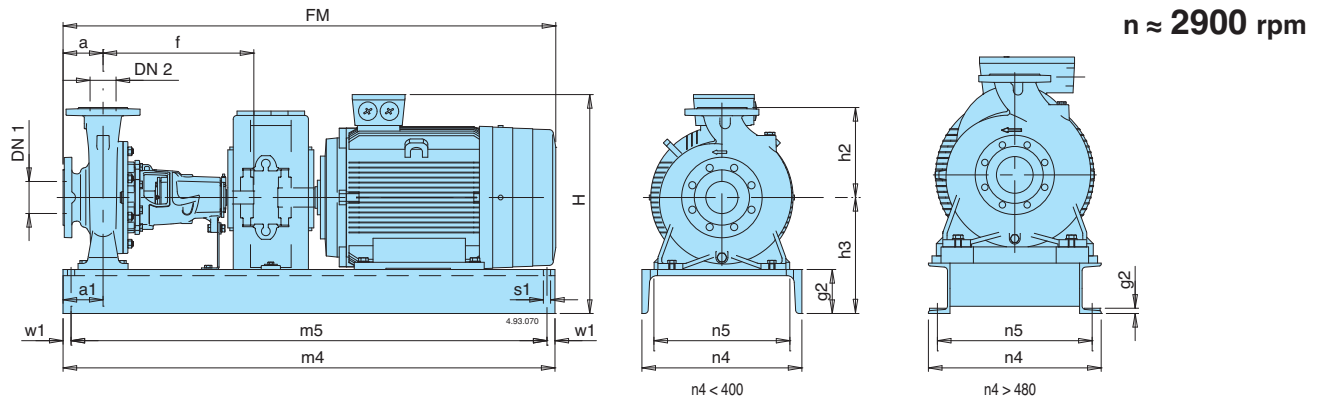
| mm  |     |     |     |       |    |    |
|-----|-----|-----|-----|-------|----|----|
| DN  | DG  | DK  | DE  | Holes |    | W  |
|     |     |     |     | N°    | Ø  |    |
| 32  | 76  | 100 | 140 | 4     | 19 | 18 |
| 40  | 84  | 110 | 150 | 4     | 19 | 18 |
| 50  | 99  | 125 | 165 | 4     | 19 | 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 rpm  
**N4** n ≈ 1450 rpm

| TYPE                      | mm  |     |     |     |     |     |     |     |     |     |     |      |     |    |    |     | kg  |             |         |
|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|----|----|-----|-----|-------------|---------|
|                           | DN1 | DN2 | a   | f   | h1  | h2  | l1  | l2  | m1  | m2  | n1  | n2   | b   | s1 | d  | w   | x   | B-N<br>B-N4 | N<br>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 |     |     | 240 | 190  |     |    |    |     |     | 37          | 33      |
| B-N, B-N4 - N, N4 32-200  |     |     |     |     | 160 | 180 | 140 | 140 |     |     |     |      |     |    |    |     |     | 44          | 38,4    |
| 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 | 240 |     |     | 190 | 38   |     |    |    |     |     | 33,6        |         |
| B-N, B-N4 - N, N4 40-200  |     |     | 160 |     | 180 | 140 | 140 | 265 |     |     | 212 | 47,1 |     |    |    |     |     | 40,4        |         |
| B-N, B-N4 - N, N4 40-250  |     |     | 180 |     | 225 | 175 | 175 | 320 |     |     | 250 | 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 |     |     | 265 | 212  |     |    |    |     |     | 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 |     |     | 320 | 250  |     |    |    |     |     | 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 |     |     | 320 | 250  |     |    |    |     |     | 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 |     |     | 360 | 280  |     |    |    |     |     | 103         | 90      |
| B-N4 - N4 65-315          |     |     |     |     | 225 | 280 | 220 | 220 |     |     | 400 | 315  |     |    |    |     |     | 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 |     |     | 345 | 280  |     |    |    |     |     | 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 |     |     | 400 | 315  |     |    |    |     |     | 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 | 360 | 200 | 250 | 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 |     |     | 400 | 315  |     |    |    |     |     | 123         | 104     |
| B-N4 - N4 100-315         |     |     |     |     | 250 | 315 | 230 | 250 |     |     |     |      |     |    |    |     |     | 158         | 138     |
| B-N4 - N4 100-400         |     |     |     |     | 530 | 280 | 355 | 268 |     |     | 280 | 200  |     |    |    |     |     | 150         | 500     |
| B-N4 - N4 125-250         | 150 | 125 | 140 | 360 | 470 | 250 | 235 | 268 | 200 | 150 | 400 | 315  | 80  | 18 | 32 | 340 | 140 | 150         | 129     |
| B-N4 - N4 125-315         |     |     |     |     | 470 | 280 | 247 | 278 |     |     |     |      |     |    |    |     |     | 217         | 189     |
| B-N4 - N4 125-400         |     |     |     |     | 530 | 315 | 400 | 280 |     |     | 305 |      |     |    |    |     |     | 255         | 222     |
|                           |     |     |     |     |     |     |     |     |     |     |     |      |     |    |    |     |     |             |         |
| B-N4 - N4 150-315         | 200 | 150 | 160 | 530 | 280 | 400 | 260 | 298 | 200 | 150 | 550 | 450  | 100 | 22 | 42 | 370 | 140 | 231         | 201     |
| B-N4 - N4 150-400         |     |     |     |     | 315 | 450 | 295 | 328 |     |     |     |      |     |    |    |     |     | 284         | 247     |

1) Additional size

## Dimensions



$n \approx 2900$  rpm

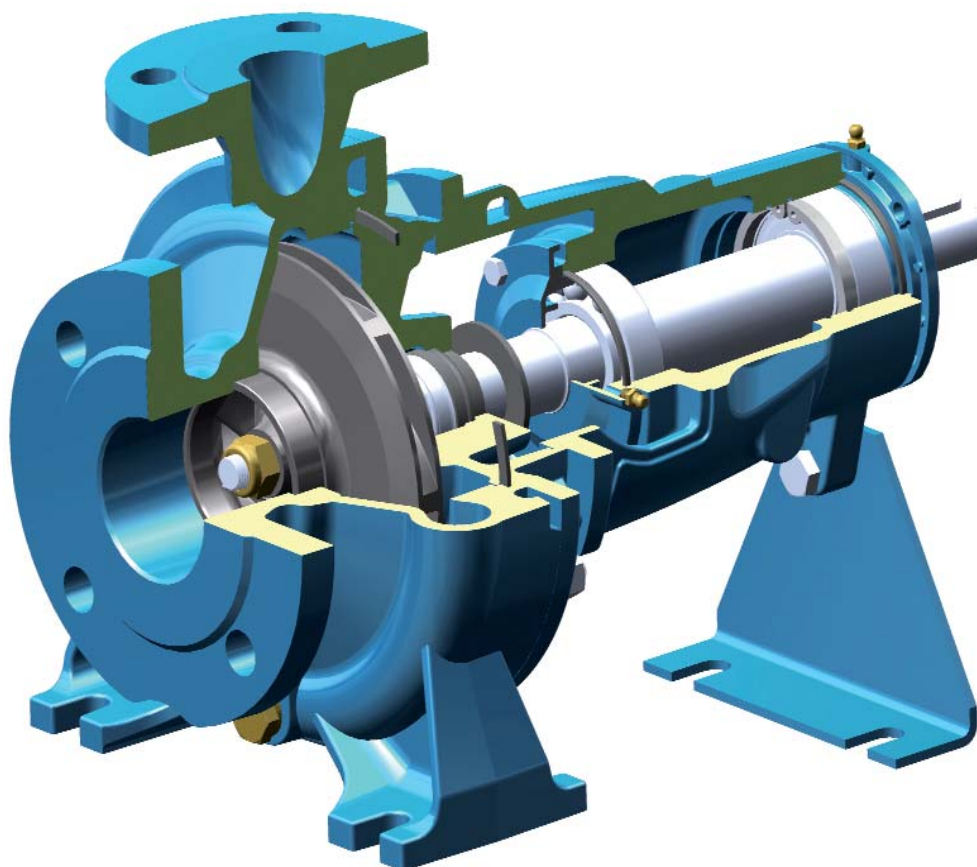
| TYPE           | MOTOR  | kW   | mm              |                 |     |     |                |                |                |                |                |                |                |                |                |                | FM $\approx$ | H $\approx$ |
|----------------|--------|------|-----------------|-----------------|-----|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|-------------|
|                |        |      | DN <sub>1</sub> | DN <sub>2</sub> | a   | f   | h <sub>3</sub> | h <sub>2</sub> | m <sub>4</sub> | m <sub>5</sub> | w <sub>1</sub> | n <sub>4</sub> | n <sub>5</sub> | a <sub>1</sub> | g <sub>2</sub> | s <sub>1</sub> |              |             |
| B-N, N 32-125  | 71 M2  | 0,55 | 50              | 32              | 80  | 360 | 197            | 140            | 780            | 750            | 15             | 240            | 180            | 90             | 85             | 14             | 718          | 308         |
|                | 80 M2  | 0,75 | 50              | 32              | 80  | 360 | 197            | 140            | 780            | 750            | 15             | 240            | 180            | 90             | 85             | 14             | 770          | 319         |
|                | 80 M2  | 1,1  | 50              | 32              | 80  | 360 | 197            | 140            | 780            | 750            | 15             | 240            | 180            | 90             | 85             | 14             | 770          | 319         |
|                | 90 S2  | 1,5  | 50              | 32              | 80  | 360 | 197            | 140            | 780            | 750            | 15             | 240            | 180            | 90             | 85             | 14             | 825          | 323         |
| B-N, N 32-160  | 90 S2  | 1,5  | 50              | 32              | 80  | 360 | 217            | 160            | 780            | 750            | 15             | 240            | 180            | 90             | 85             | 14             | 825          | 343         |
|                | 90 L2  | 2,2  | 50              | 32              | 80  | 360 | 217            | 160            | 780            | 750            | 15             | 240            | 180            | 90             | 85             | 14             | 865          | 343         |
|                | 100 L2 | 3    | 50              | 32              | 80  | 360 | 232            | 160            | 880            | 850            | 15             | 300            | 240            | 90             | 100            | 14             | 920          | 398         |
| B-N, N 32-200  | 90 L2  | 2,2  | 50              | 32              | 80  | 360 | 245            | 180            | 780            | 750            | 15             | 240            | 180            | 90             | 85             | 14             | 865          | 371         |
|                | 100 L2 | 3    | 50              | 32              | 80  | 360 | 260            | 180            | 880            | 850            | 15             | 300            | 240            | 90             | 100            | 14             | 920          | 426         |
|                | 112 M2 | 4    | 50              | 32              | 80  | 360 | 260            | 180            | 880            | 850            | 15             | 300            | 240            | 90             | 100            | 14             | 903          | 437         |
|                | 132 S2 | 5,5  | 50              | 32              | 80  | 360 | 260            | 180            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 954          | 462         |
| B-N, N 40-125  | 80 M2  | 1,1  | 65              | 40              | 80  | 360 | 197            | 140            | 780            | 750            | 15             | 240            | 180            | 90             | 85             | 14             | 770          | 319         |
|                | 90 S2  | 1,5  | 65              | 40              | 80  | 360 | 197            | 140            | 780            | 750            | 15             | 240            | 180            | 90             | 85             | 14             | 825          | 323         |
|                | 90 L2  | 2,2  | 65              | 40              | 80  | 360 | 197            | 140            | 780            | 750            | 15             | 240            | 180            | 90             | 85             | 14             | 865          | 323         |
| B-N, N 40-160  | 90 L2  | 2,2  | 65              | 40              | 80  | 360 | 217            | 160            | 780            | 750            | 15             | 240            | 180            | 90             | 85             | 14             | 865          | 343         |
|                | 100 L2 | 3    | 65              | 40              | 80  | 360 | 232            | 160            | 880            | 850            | 15             | 300            | 240            | 90             | 100            | 14             | 920          | 398         |
|                | 112 M2 | 4    | 65              | 40              | 80  | 360 | 232            | 160            | 880            | 850            | 15             | 300            | 240            | 90             | 100            | 14             | 903          | 409         |
|                | 132 S2 | 5,5  | 65              | 40              | 80  | 360 | 232            | 160            | 1020           | 990            | 15             | 350            | 290            | 90             | 100            | 14             | 953          | 434         |
| B-N, N 40-200  | 112 M2 | 4    | 65              | 40              | 100 | 360 | 260            | 180            | 880            | 850            | 15             | 300            | 240            | 100            | 100            | 14             | 923          | 437         |
|                | 132 S2 | 5,5  | 65              | 40              | 100 | 360 | 260            | 180            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 973          | 462         |
|                | 132 S2 | 7,5  | 65              | 40              | 100 | 360 | 260            | 180            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 973          | 462         |
| B-N, N 40-250  | 160 M2 | 11   | 65              | 40              | 100 | 360 | 280            | 225            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 1082         | 517         |
|                | 160 M2 | 15   | 65              | 40              | 100 | 360 | 280            | 225            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 1082         | 517         |
| B-N, N 50-125  | 90 L2  | 2,2  | 65              | 50              | 100 | 360 | 217            | 160            | 780            | 750            | 15             | 240            | 180            | 90             | 85             | 14             | 885          | 343         |
|                | 100 L2 | 3    | 65              | 50              | 100 | 360 | 232            | 160            | 880            | 850            | 15             | 300            | 240            | 90             | 100            | 14             | 940          | 398         |
|                | 112 M2 | 4    | 65              | 50              | 100 | 360 | 232            | 160            | 880            | 850            | 15             | 300            | 240            | 90             | 100            | 14             | 923          | 409         |
|                | 132 S2 | 5,5  | 65              | 50              | 100 | 360 | 232            | 160            | 1020           | 990            | 15             | 350            | 290            | 90             | 100            | 14             | 973          | 434         |
| B-N, N 50-160  | 132 S2 | 5,5  | 65              | 50              | 100 | 360 | 260            | 180            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 973          | 462         |
|                | 132 S2 | 7,5  | 65              | 50              | 100 | 360 | 260            | 180            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 973          | 462         |
| B-N, N 50-200  | 160 M2 | 11   | 65              | 50              | 100 | 360 | 260            | 200            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 1082         | 497         |
|                | 160 M2 | 15   | 65              | 50              | 100 | 360 | 260            | 200            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 1082         | 497         |
| B-N, N 50-250  | 160 M2 | 11   | 65              | 50              | 100 | 360 | 280            | 225            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 1082         | 517         |
|                | 160 M2 | 15   | 65              | 50              | 100 | 360 | 280            | 225            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 1082         | 517         |
|                | 160 L2 | 18,5 | 65              | 50              | 100 | 360 | 280            | 225            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 1142         | 517         |
|                | 180 M2 | 22   | 65              | 50              | 100 | 360 | 280            | 225            | 1140           | 1110           | 15             | 350            | 290            | 100            | 100            | 14             | 1218         | 566         |
| B-N, N 65-125  | 112 M2 | 4    | 80              | 65              | 100 | 360 | 260            | 180            | 880            | 850            | 15             | 300            | 240            | 100            | 100            | 14             | 923          | 437         |
|                | 132 S2 | 5,5  | 80              | 65              | 100 | 360 | 260            | 180            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 973          | 462         |
|                | 132 S2 | 7,5  | 80              | 65              | 100 | 360 | 260            | 180            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 973          | 462         |
| B-N, N 65-160  | 132 S2 | 5,5  | 80              | 65              | 100 | 360 | 260            | 200            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 973          | 462         |
|                | 132 S2 | 7,5  | 80              | 65              | 100 | 360 | 260            | 200            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 973          | 462         |
|                | 160 M2 | 11   | 80              | 65              | 100 | 360 | 260            | 200            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 1112         | 497         |
|                | 160 M2 | 15   | 80              | 65              | 100 | 360 | 260            | 200            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 1082         | 497         |
| B-N, N 65-200  | 160 M2 | 15   | 80              | 65              | 100 | 360 | 280            | 225            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 1082         | 517         |
|                | 160 L2 | 18,5 | 80              | 65              | 100 | 360 | 280            | 225            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 1142         | 517         |
|                | 180 M2 | 22   | 80              | 65              | 100 | 360 | 280            | 225            | 1140           | 1110           | 15             | 350            | 290            | 100            | 100            | 14             | 1218         | 566         |
|                | 180 M2 | 22   | 80              | 65              | 100 | 470 | 310            | 250            | 1360           | 1320           | 20             | 400            | 340            | 130            | 110            | 18             | 1328         | 596         |
| B-N, N 65-250  | 200 L2 | 30   | 80              | 65              | 100 | 470 | 310            | 250            | 1360           | 1320           | 20             | 400            | 340            | 130            | 110            | 18             | 1348         | 625         |
|                | 200 L2 | 37   | 80              | 65              | 100 | 470 | 310            | 250            | 1360           | 1320           | 20             | 400            | 340            | 130            | 110            | 18             | 1348         | 625         |
|                | 132 S2 | 7,5  | 100             | 80              | 125 | 360 | 280            | 225            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 998          | 482         |
| B-N, N 80-160  | 160 M2 | 11   | 100             | 80              | 125 | 360 | 280            | 225            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 1107         | 517         |
|                | 160 M2 | 15   | 100             | 80              | 125 | 360 | 280            | 225            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 1107         | 517         |
|                | 160 L2 | 18,5 | 100             | 80              | 125 | 360 | 280            | 225            | 1020           | 990            | 15             | 350            | 290            | 100            | 100            | 14             | 1167         | 517         |
|                | 180 M2 | 22   | 100             | 80              | 125 | 470 | 290            | 250            | 1230           | 1190           | 20             | 400            | 340            | 100            | 110            | 18             | 1353         | 576         |
| B-N, N 80-200  | 200 L2 | 30   | 100             | 80              | 125 | 470 | 310            | 250            | 1360           | 1320           | 20             | 400            | 340            | 130            | 110            | 18             | 1373         | 625         |
|                | 180 M2 | 22   | 100             | 80              | 125 | 470 | 310            | 280            | 1360           | 1320           | 20             | 400            | 340            | 130            | 110            | 18             | 1373         | 625         |
| B-N, N 80-250  | 200 L2 | 30   | 100             | 80              | 125 | 470 | 310            | 280            | 1360           | 1320           | 20             | 400            | 340            | 130            | 110            | 18             | 1373         | 625         |
|                | 200 L2 | 37   | 100             | 80              | 125 | 470 | 310            | 280            | 1360           | 1320           | 20             | 400            | 340            | 130            | 110            | 18             | 1373         | 625         |
|                | 225 M2 | 45   | 100             | 80              | 125 | 470 | 385            | 280            | 1250           | 840            | 205            | 480            | 430            | 95             | 16             | 24             | 1470         | 723         |
| B-N, N 80-250  | 250 M2 | 55   | 100             | 80              | 125 | 470 | 415            | 280            | 1250           | 840            | 205            | 480            | 430            | 95             | 16             | 24             | 1509         | 825         |
|                | 160 L2 | 18,5 | 125             | 100             | 125 | 470 | 310            | 280            | 1230           | 1190           | 20             | 400            | 340            | 130            | 110            | 18             | 1263         | 547         |
| B-N, N 100-200 | 180 M2 | 22   | 125             | 100             | 125 | 470 | 310            | 280            | 1360           | 1320           | 20             | 400            | 340            | 130            | 110            | 18             | 1353         | 596         |
|                | 200 L2 | 30   | 125             | 100             | 125 | 470 | 310            | 280            | 1360           | 1320           | 20             | 400            | 340            | 130            | 110            | 18             | 1373         | 625         |
|                | 200 L2 | 37   | 125             | 100             | 125 | 470 | 310            | 280            | 1360           | 1320           | 20             | 400            | 340            | 130            | 110            | 18             | 1373         | 625         |
|                | 225 M2 | 45   | 125             | 100             | 125 | 470 | 385            | 280            | 1250           | 840            | 205            | 480            | 430            | 95             | 16             | 24             | 1470         | 723         |
| B-N, N 100-200 | 250 M2 | 55   | 125             | 100             | 140 | 470 | 415            | 280            | 1250           | 840            | 205            | 480            | 430            | 95             | 16             | 24             | 1524         | 825         |
|                | 280 S2 | 75   | 125             | 100             | 140 | 470 | 505            | 280            | 1400           | 940            | 230            | 510            | 450            | 95             | 17,5           | 24             | 1597         | 938         |



### Dimensions

n ≈ 1450 rpm

| TYPE             | MOTOR  | kW   | mm  |     |       |     |     |     |      |      |     |     |     |     |      |    | fM≈  | H ≈ |
|------------------|--------|------|-----|-----|-------|-----|-----|-----|------|------|-----|-----|-----|-----|------|----|------|-----|
|                  |        |      | DN1 | DN2 | a     | f   | h3  | h2  | m4   | m5   | w1  | n4  | n5  | a1  | g2   | s1 |      |     |
| B-N4, N4 32-125  | 71 M4  | 0,25 | 50  | 32  | 80    | 360 | 197 | 140 | 780  | 750  | 15  | 240 | 180 | 90  | 85   | 14 | 718  | 308 |
| B-N4, N4 32-160  | 71 M4  | 0,37 | 50  | 32  | 80    | 360 | 217 | 160 | 780  | 750  | 15  | 240 | 180 | 90  | 85   | 14 | 718  | 328 |
| B-N4, N4 32-200  | 80 M4  | 0,55 | 50  | 32  | 80    | 360 | 245 | 180 | 780  | 750  | 15  | 240 | 180 | 90  | 85   | 14 | 770  | 367 |
|                  | 80 M4  | 0,75 | 50  | 32  | 80    | 360 | 245 | 180 | 780  | 750  | 15  | 240 | 180 | 90  | 85   | 14 | 770  | 367 |
| B-N4, N4 40-125  | 71 M4  | 0,25 | 65  | 40  | 80    | 360 | 197 | 140 | 780  | 750  | 15  | 240 | 180 | 90  | 85   | 14 | 718  | 308 |
|                  | 71 M4  | 0,37 | 65  | 40  | 80    | 360 | 197 | 140 | 780  | 750  | 15  | 240 | 180 | 90  | 85   | 14 | 718  | 308 |
| B-N4, N4 40-160  | 71 M4  | 0,37 | 65  | 40  | 80    | 360 | 217 | 160 | 780  | 750  | 15  | 240 | 180 | 90  | 85   | 14 | 718  | 328 |
|                  | 80 M4  | 0,55 | 65  | 40  | 80    | 360 | 217 | 160 | 780  | 750  | 15  | 240 | 180 | 90  | 85   | 14 | 770  | 339 |
|                  | 80 M4  | 0,75 | 65  | 40  | 80    | 360 | 217 | 160 | 780  | 750  | 15  | 240 | 180 | 90  | 85   | 14 | 770  | 339 |
| B-N4, N4 40-200  | 90 S4  | 1,1  | 65  | 40  | 100   | 360 | 260 | 180 | 880  | 850  | 15  | 300 | 240 | 100 | 100  | 14 | 845  | 386 |
| B-N4, N4 40-250  | 90 L4  | 1,5  | 65  | 40  | 100   | 360 | 280 | 225 | 880  | 850  | 15  | 350 | 290 | 100 | 100  | 14 | 885  | 406 |
|                  | 100 L4 | 2,2  | 65  | 40  | 100   | 360 | 280 | 225 | 880  | 850  | 15  | 350 | 290 | 100 | 100  | 14 | 929  | 446 |
|                  | 100 L4 | 3    | 65  | 40  | 100   | 360 | 280 | 225 | 880  | 850  | 15  | 350 | 290 | 100 | 100  | 14 | 929  | 446 |
| B-N4, N4 50-125  | 71 M4  | 0,37 | 65  | 50  | 100   | 360 | 217 | 160 | 780  | 750  | 15  | 240 | 180 | 90  | 85   | 14 | 738  | 328 |
|                  | 80 M4  | 0,55 | 65  | 50  | 100   | 360 | 217 | 160 | 780  | 750  | 15  | 240 | 180 | 90  | 85   | 14 | 790  | 339 |
|                  | 80 M4  | 0,75 | 65  | 50  | 100   | 360 | 217 | 160 | 780  | 750  | 15  | 240 | 180 | 90  | 85   | 14 | 790  | 339 |
| B-N4, N4 50-160  | 90 S4  | 1,1  | 65  | 50  | 100   | 360 | 260 | 180 | 880  | 850  | 15  | 300 | 240 | 100 | 100  | 14 | 845  | 386 |
| B-N4, N4 50-200  | 90 S4  | 1,1  | 65  | 50  | 100   | 360 | 260 | 200 | 880  | 850  | 15  | 300 | 240 | 100 | 100  | 14 | 845  | 386 |
|                  | 90 L4  | 1,5  | 65  | 50  | 100   | 360 | 260 | 200 | 880  | 850  | 15  | 300 | 240 | 100 | 100  | 14 | 885  | 386 |
|                  | 100 L4 | 2,2  | 65  | 50  | 100   | 360 | 260 | 200 | 880  | 850  | 15  | 300 | 240 | 100 | 100  | 14 | 929  | 426 |
| B-N4, N4 50-250  | 100 L4 | 2,2  | 65  | 50  | 100   | 360 | 280 | 225 | 880  | 850  | 15  | 350 | 290 | 100 | 100  | 14 | 929  | 446 |
|                  | 100 L4 | 3    | 65  | 50  | 100   | 360 | 280 | 225 | 880  | 850  | 15  | 350 | 290 | 100 | 100  | 14 | 929  | 446 |
|                  | 112 M4 | 4    | 65  | 50  | 100   | 360 | 280 | 225 | 880  | 850  | 15  | 350 | 290 | 100 | 100  | 14 | 912  | 457 |
| B-N4, N4 65-125  | 80 M4  | 0,75 | 80  | 65  | 100   | 360 | 260 | 180 | 880  | 850  | 15  | 300 | 240 | 100 | 100  | 14 | 790  | 382 |
|                  | 90 S4  | 1,1  | 80  | 65  | 100   | 360 | 260 | 180 | 880  | 850  | 15  | 300 | 240 | 100 | 100  | 14 | 845  | 386 |
| B-N4, N4 65-160  | 90 S4  | 1,1  | 80  | 65  | 100   | 360 | 260 | 200 | 880  | 850  | 15  | 300 | 240 | 100 | 100  | 14 | 845  | 386 |
|                  | 90 L4  | 1,5  | 80  | 65  | 100   | 360 | 260 | 200 | 880  | 850  | 15  | 300 | 240 | 100 | 100  | 14 | 885  | 386 |
|                  | 100 L4 | 2,2  | 80  | 65  | 100   | 360 | 260 | 200 | 880  | 850  | 15  | 350 | 290 | 100 | 100  | 14 | 929  | 426 |
| B-N4, N4 65-200  | 100 L4 | 2,2  | 80  | 65  | 100   | 360 | 280 | 225 | 880  | 850  | 15  | 350 | 290 | 100 | 100  | 14 | 929  | 446 |
|                  | 100 L4 | 3    | 80  | 65  | 100   | 360 | 280 | 225 | 880  | 850  | 15  | 350 | 290 | 100 | 100  | 14 | 929  | 446 |
| B-N4, N4 65-250  | 112 M4 | 4    | 80  | 65  | 100   | 470 | 310 | 250 | 1030 | 990  | 20  | 400 | 340 | 130 | 110  | 18 | 1022 | 487 |
|                  | 132 S4 | 5,5  | 80  | 65  | 100   | 470 | 310 | 250 | 1030 | 990  | 20  | 400 | 340 | 130 | 110  | 18 | 1123 | 512 |
| B-N4, N4 65-315  | 132 S4 | 5,5  | 80  | 65  | 125   | 470 | 335 | 280 | 1030 | 990  | 20  | 400 | 340 | 130 | 110  | 18 | 1148 | 537 |
|                  | 132 M4 | 7,5  | 80  | 65  | 125   | 470 | 335 | 280 | 1030 | 990  | 20  | 400 | 340 | 130 | 110  | 18 | 1148 | 537 |
|                  | 160 M4 | 11   | 80  | 65  | 125   | 470 | 335 | 280 | 1230 | 1190 | 20  | 400 | 340 | 130 | 110  | 18 | 1237 | 572 |
| B-N4, N4 80-160  | 90 S4  | 1,1  | 100 | 80  | 125   | 360 | 280 | 225 | 880  | 850  | 15  | 350 | 290 | 100 | 100  | 14 | 870  | 406 |
|                  | 90 L4  | 1,5  | 100 | 80  | 125   | 360 | 280 | 225 | 880  | 850  | 15  | 350 | 290 | 100 | 100  | 14 | 910  | 406 |
|                  | 100 L4 | 2,2  | 100 | 80  | 125   | 360 | 280 | 225 | 880  | 850  | 15  | 350 | 290 | 100 | 100  | 14 | 954  | 446 |
| B-N4, N4 80-200  | 100 L4 | 2,2  | 100 | 80  | 125   | 470 | 280 | 250 | 1020 | 990  | 15  | 350 | 290 | 100 | 100  | 14 | 1064 | 446 |
|                  | 100 L4 | 3    | 100 | 80  | 125   | 470 | 280 | 250 | 1020 | 990  | 15  | 350 | 290 | 100 | 100  | 14 | 1064 | 446 |
|                  | 112 M4 | 4    | 100 | 80  | 125   | 470 | 280 | 250 | 1020 | 990  | 15  | 350 | 290 | 100 | 100  | 14 | 1047 | 457 |
| B-N4, N4 80-250  | 112 M4 | 4    | 100 | 80  | 125   | 470 | 310 | 280 | 1030 | 990  | 20  | 400 | 340 | 130 | 110  | 18 | 1047 | 487 |
|                  | 132 S4 | 5,5  | 100 | 80  | 125   | 470 | 310 | 280 | 1030 | 990  | 20  | 400 | 340 | 130 | 110  | 18 | 1148 | 512 |
|                  | 132 M4 | 7,5  | 100 | 80  | 125   | 470 | 310 | 280 | 1030 | 990  | 20  | 400 | 340 | 130 | 110  | 18 | 1148 | 512 |
| B-N4, N4 80-315  | 160 M4 | 11   | 100 | 80  | 125   | 470 | 360 | 315 | 1230 | 1190 | 20  | 400 | 340 | 130 | 110  | 18 | 1237 | 597 |
|                  | 160 L4 | 15   | 100 | 80  | 125   | 470 | 360 | 315 | 1230 | 1190 | 20  | 400 | 340 | 130 | 110  | 18 | 1297 | 597 |
|                  | 180 M4 | 18,5 | 100 | 80  | 125   | 470 | 360 | 315 | 1360 | 1320 | 20  | 400 | 340 | 130 | 110  | 18 | 1301 | 646 |
| B-N4, N4 80-400  | 180 M4 | 18,5 | 125 | 80  | 125   | 530 | 445 | 355 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1361 | 731 |
|                  | 180 L4 | 22   | 125 | 80  | 125   | 530 | 445 | 355 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1391 | 760 |
|                  | 200 L4 | 30   | 125 | 80  | 125   | 530 | 445 | 355 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1439 | 760 |
|                  | 225 S4 | 37   | 125 | 80  | 125   | 530 | 445 | 355 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1481 | 783 |
| B-N4, N4 100-200 | 100 L4 | 3    | 125 | 100 | 125   | 470 | 310 | 280 | 1030 | 990  | 20  | 400 | 340 | 130 | 110  | 18 | 1064 | 476 |
|                  | 112 M4 | 4    | 125 | 100 | 125   | 470 | 310 | 280 | 1030 | 990  | 20  | 400 | 340 | 130 | 110  | 18 | 1047 | 487 |
|                  | 132 S4 | 5,5  | 125 | 100 | 125   | 470 | 310 | 280 | 1030 | 990  | 20  | 400 | 340 | 130 | 110  | 18 | 1148 | 512 |
| B-N4, N4 100-250 | 132 M4 | 7,5  | 125 | 100 | 140   | 470 | 335 | 280 | 1030 | 990  | 20  | 400 | 340 | 130 | 110  | 18 | 1163 | 537 |
|                  | 160 M4 | 11   | 125 | 100 | 140   | 470 | 335 | 280 | 1230 | 1190 | 20  | 400 | 340 | 130 | 110  | 18 | 1252 | 572 |
| B-N4, N4 100-315 | 160 M4 | 11   | 125 | 100 | 140   | 470 | 360 | 315 | 1230 | 1190 | 20  | 400 | 340 | 130 | 110  | 18 | 1252 | 597 |
|                  | 160 L4 | 15   | 125 | 100 | 140   | 470 | 360 | 315 | 1230 | 1190 | 20  | 400 | 340 | 130 | 110  | 18 | 1312 | 597 |
|                  | 180 M4 | 18,5 | 125 | 100 | 140   | 470 | 360 | 315 | 1360 | 1320 | 20  | 400 | 340 | 130 | 110  | 18 | 1316 | 646 |
| B-N4, N4 100-400 | 180 L4 | 22   | 125 | 100 | 140   | 530 | 445 | 355 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1406 | 760 |
|                  | 200 L4 | 30   | 125 | 100 | 140   | 530 | 445 | 355 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1454 | 760 |
|                  | 225 S4 | 37   | 125 | 100 | 140   | 530 | 445 | 355 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1496 | 783 |
| B-N4, N4 125-250 | 132 S4 | 5,5  | 150 | 125 | 140   | 470 | 360 | 355 | 1030 | 990  | 20  | 400 | 340 | 130 | 110  | 18 | 1163 | 562 |
|                  | 132 M4 | 7,5  | 150 | 125 | 140   | 470 | 360 | 355 | 1030 | 990  | 20  | 400 | 340 | 130 | 110  | 18 | 1163 | 562 |
|                  | 160 M4 | 11   | 150 | 125 | 140   | 470 | 360 | 355 | 1230 | 1190 | 20  | 400 | 340 | 130 | 110  | 18 | 1252 | 597 |
|                  | 160 L4 | 15   | 150 | 125 | 140   | 470 | 360 | 355 | 1230 | 1190 | 20  | 400 | 340 | 130 | 110  | 18 | 1312 | 597 |
| B-N4, N4 125-315 | 180 M4 | 18,5 | 150 | 125 | 140   | 530 | 445 | 355 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1376 | 731 |
|                  | 180 L4 | 22   | 150 | 125 | 140   | 530 | 445 | 355 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1406 | 760 |
|                  | 200 L4 | 30   | 150 | 125 | 140   | 530 | 445 | 355 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1454 | 760 |
| B-N4, N4 125-400 | 225 S4 | 37   | 150 | 125 | 140   | 530 | 480 | 400 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1496 | 818 |
|                  | 225 M4 | 45   | 150 | 125 | 140   | 530 | 480 | 400 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1556 | 818 |
|                  | 250 M4 | 55   | 150 | 125 | 140   | 530 | 540 | 400 | 1400 | 940  | 230 | 510 | 450 | 115 | 17,5 | 24 | 1595 | 950 |
| B-N4, N4 150-315 | 180 M4 | 18,5 | 200 | 150 | 160   | 530 | 445 | 400 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1396 | 731 |
|                  | 180 L4 | 22   | 200 | 150 | 160   | 530 | 445 | 400 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1426 | 760 |
|                  | 200 L4 | 30   | 200 | 150 | 160   | 530 | 445 | 400 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1474 | 760 |
|                  | 225 S4 | 37   | 200 | 150 | 160   | 530 | 445 | 400 | 1250 | 840  | 205 | 480 | 430 | 115 | 16   | 24 | 1516 | 783 |
| B-N4, N4 150-400 | 225 M4 | 45   | 200 | 150 | 160</ |     |     |     |      |      |     |     |     |     |      |    |      |     |

**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.