

Construction

Close-coupled centrifugal pumps; electric motor with extended shaft directly connected to the pump. Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733 with additional sizes for completion.

Connections

| Sizes | Connections |
|-------------------------------|--|
| NM4 25/125, 25/160, 25/200 | Threaded ports ISO 228 |
| from NM4 32/16 to NM4 150/400 | Flanges according to PN 10, EN 1092-2. |

Counter-flanges (on request)

| Sizes | Flanges |
|-------------------------------|---|
| from NM4 32/16 to NM4 50/25. | Screwed flanges UNI 2247, PN 16 |
| from NM4 32/16 to NM4 150/400 | Flanges for welding UNI 2277, UNI 2278, PN 10 |

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.
- When low noise operating is required. - 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.
 Continuous duty.

Motor

4-pole induction motor, 50 Hz (n = 1450 rpm).
NM4: three-phase 230/400 V ± 10% up to 3 kW;
 400/690 V ± 10% from 4 to 75 kW;
 Insulation class F.
 Protection IP 54.
 Constructed in accordance with IEC 34.

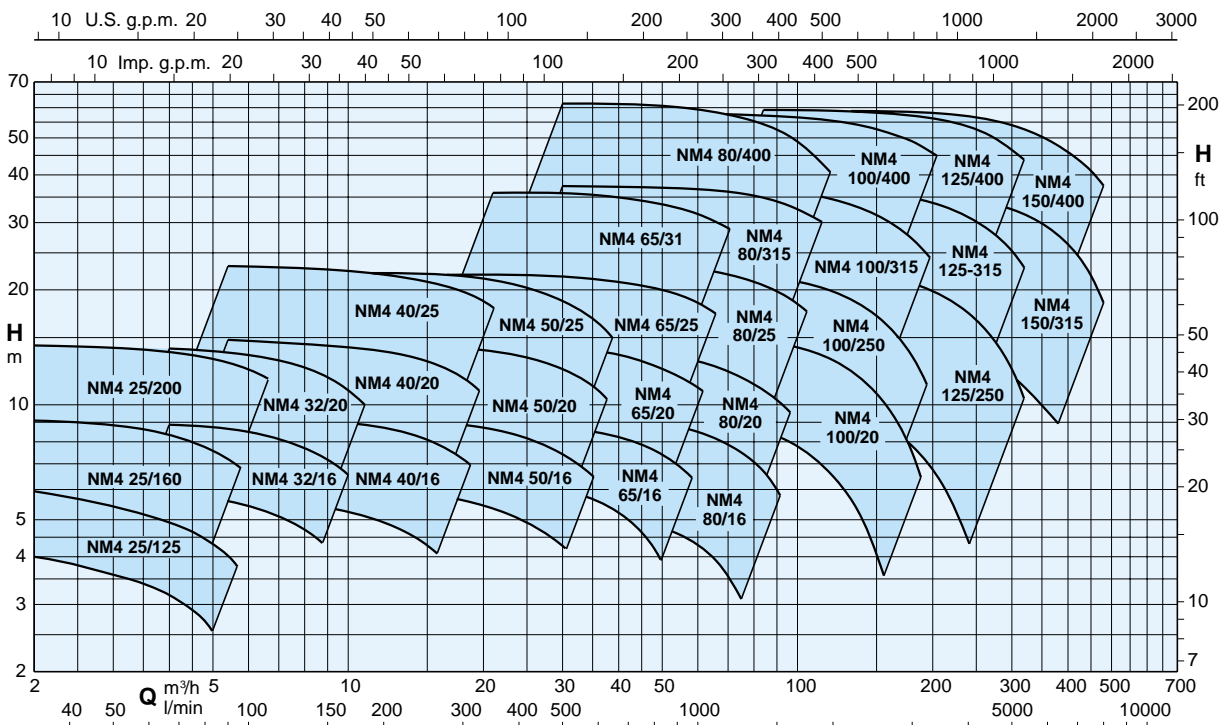
Special features on request

- Other voltages. - Frequency 60 Hz (as per 60 Hz data sheet).
- Protection IP 55. - Special mechanical seal.
- Higher or lower liquid or ambient temperatures.

Materiali

| Components | NM4 | B-NM4 | I-NM4 |
|-----------------|--|----------------------------|----------------------------|
| Pump casing | Cast iron | Bronze | Cr Ni Mo steel AISI 316 |
| Lantern bracket | GJL 200 EN 1561 | G-Cu Sn 10 UNI 7013 | |
| Impeller | Cast iron | Bronze | |
| | GJL 200 EN 1561 | G-Cu Sn 10 UNI 7013 | |
| | Brass P- Cu Zn 40 Pb 2 UNI 5705 For NM4 25/125 - 25/160 - 25/200 NM4 32/16 - 32/20 - 40/20 | | |
| Shaft | Cr Ni steel AISI 303 up to 1,1 kW | Cr Ni Mo steel AISI 316 | |
| | Cr steel AISI 430 from 1,5 kW to 75 kW | | |
| Mechanical seal | Carbon - Ceramic - NBR | | |
| Counter-flanges | Steel Fe 430B UNI 7070 | | |

Coverage chart n = 1450 rpm



Performance $n \approx 1450$ rpm

| B - NM4 I - NM4 | NM4 | P ₂ | | Q m ³ /h | | | | | | | | | | | | | | | | | | | | |
|--------------------|--------------|----------------|------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|----|--|
| | | kW | HP | | 1 | 1,2 | 1,5 | 1,89 | 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 | 15 | |
| | | l/min | | 16 | 20 | 25 | 31,5 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 125 | 140 | 160 | 180 | 200 | 220 | 250 | | |
| B-NM4 25/160BE | NM4 25/125AE | 0,25 | 0,34 | H m | 6,1 | 6,05 | 6 | 5,9 | 5,8 | 5,5 | 5,2 | 4,8 | 4,4 | 3,9 | 3,3 | | | | | | | | | |
| B-NM4 25/160AE | NM4 25/160BE | 0,37 | 0,5 | | 7,7 | 7,65 | 7,6 | 7,55 | 7,5 | 7,2 | 6,9 | 6,6 | 6,1 | 5,5 | 4,6 | 3,6 | | | | | | | | |
| I-B-NM4 25/200CE | NM4 25/160AE | 0,37 | 0,5 | | 9,2 | 9,15 | 9,1 | 9,05 | 9 | 8,7 | 8,5 | 8,2 | 7,8 | 7,2 | 6,5 | 5,6 | 3,7 | | | | | | | |
| I-B-NM4 25/200BE | NM4 25/200CE | 0,37 | 0,5 | | 11,6 | 11,5 | 11,4 | 11,3 | 11,1 | 10,9 | 10,5 | 10,1 | 9,7 | 9,1 | 8,5 | 7,6 | 6,1 | 4,1* | | | | | | |
| I-B-NM4 25/200BE | NM4 25/200BE | 0,55 | 0,75 | | 13,4 | 13,3 | 13,2 | 13,1 | 12,9 | 12,7 | 12,4 | 12 | 11,6 | 11,1 | 10,5 | 9,8 | 8,6 | 7* | 4* | | | | | |
| I-B-NM4 25/200AE | NM4 25/200AE | 0,75 | 1 | | 14,8 | 14,7 | 14,6 | 14,5 | 14,4 | 14,2 | 14 | 13,7 | 13,3 | 12,9 | 12,3 | 11,7 | 10,5 | 9,1* | 6,2* | | | | | |

| B - NM4 I - NM4 | NM4 | P ₂ | | Q m ³ /h | | | | | | | | | | | | | | | | | | | | |
|--------------------|-------------|----------------|------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-------|-------|--|
| | | kW | HP | | 2,4 | 3 | 3,6 | 4,2 | 4,8 | 5,4 | 6 | 7,5 | 8,4 | 9,6 | 10,8 | 12 | 13,2 | 15 | 16,8 | 18,9 | 21 | 24 | 27 | |
| | | l/min | | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 125 | 140 | 160 | 180 | 200 | 220 | 250 | 280 | 315 | 350 | 400 | 450 | | |
| B-NM4 32/160BE | NM4 32/16BE | 0,37 | 0,5 | H m | 7,6 | 7,5 | 7,4 | 7,3 | 7,2 | 7,1 | 6,9 | 6,3 | 5,9 | 5,2 | 4,2 | | | | | | | | | |
| B-NM4 32/160AE | NM4 32/16AE | 0,37 | 0,5 | | 9 | 8,95 | 8,9 | 8,8 | 8,7 | 8,6 | 8,5 | 7,9 | 7,5 | 6,8 | 6 | 5,1* | | | | | | | | |
| I-B-NM4 32/200BE | NM4 32/20BE | 0,55 | 0,75 | | 12,5 | 12,4 | 12,3 | 12,2 | 12 | 11,8 | 11,6 | 10,6 | 10 | 8,9 | 7,6 | 6,2* | 4,7* | | | | | | | |
| I-B-NM4 32/200AE | NM4 32/20AE | 0,75 | 1 | | 14,3 | 14,2 | 14,1 | 14 | 13,9 | 13,7 | 13,5 | 12,9 | 12,3 | 11,3 | 10,2 | 8,9* | 7,5* | | | | | | | |
| B-NM4 40/160CE | NM4 40/16CE | 0,37 | 0,5 | | | | | | | 6,9 | 6,85 | 6,7 | 6,6 | 6,5 | 6,3 | 6 | 5,7 | 5,1 | 4,4 | 3,5 | | | | |
| B-NM4 40/160BE | NM4 40/16BE | 0,55 | 0,75 | | | | | | | 7,9 | 7,85 | 7,75 | 7,7 | 7,6 | 7,5 | 7,3 | 7 | 6,5 | 5,9 | 5,1 | 4,2 | | | |
| B-NM4 40/160AE | NM4 40/16AE | 0,75 | 1 | | | | | | | 9,3 | 9,25 | 9,15 | 9,1 | 9 | 8,9 | 8,8 | 8,5 | 8,1 | 7,6 | 6,9 | 6,1 | | | |
| B-NM4 40/200BE | NM4 40/20BE | 1,1 | 1,5 | | | | | | | 13 | 12,9 | 12,7 | 12,6 | 12,4 | 12,2 | 12 | 11,5 | 10,8 | 10 | 8,6 | 7 | | | |
| B-NM4 40/200AE | NM4 40/20AE | 1,1 | 1,5 | | | | | | | 14,8 | 14,7 | 14,5 | 14,4 | 14,2 | 14 | 13,8 | 13,6 | 13 | 12,2 | 11,3 | 10 | | | |
| I-B-NM4 40/25CE | NM4 40/25CE | 1,5 | 2 | | | | | | | 16,4 | 16,3 | 16 | 15,8 | 15,6 | 15,3 | 15 | 14,5 | 13,8 | 12,8 | 11,3 | 9,4 | 5,2* | | |
| I-B-NM4 40/25BE | NM4 40/25BE | 2,2 | 3 | | | | | | | 21,3 | 21,2 | 20,9 | 20,8 | 20,6 | 20,3 | 20 | 19,7 | 19,1 | 18,4 | 17,3 | 16 | 13* | 9,5* | |
| I-B-NM4 40/25AE | NM4 40/25AE | 3 | 4 | | | | | | | 23,1 | 23 | 22,8 | 22,7 | 22,5 | 22,2 | 21,9 | 21,6 | 21 | 20,3 | 19,3 | 18 | 15,5* | 12,2* | |

| B - NM4 I - NM4 | NM4 | P ₂ | | Q m ³ /h | | | | | | | | | | | | | | | | | | | |
|--------------------|-------------|----------------|------|------------------------|------|-------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|-------|-------|-------|----|
| | | kW | HP | | 10,8 | 12 | 13,2 | 15 | 16,8 | 18,9 | 21 | 24 | 27 | 30 | 33 | 37,8 | 42 | 48 | 54 | 60 | 66 | 75 | 84 |
| | | l/min | | 180 | 200 | 220 | 250 | 280 | 315 | 350 | 400 | 450 | 500 | 550 | 630 | 700 | 800 | 900 | 1000 | 1100 | 1250 | 1400 | |
| B-NM4 50/160BE | NM4 50/16BE | 1,1 | 1,5 | H m | 7,55 | 7,5 | 7,45 | 7,4 | 7,3 | 7,2 | 7 | 6,7 | 6,2 | 5,6 | 5 | 3,8* | | | | | | | |
| B-NM4 50/160AE | NM4 50/16AE | 1,1 | 1,5 | | 9,15 | 9,1 | 9,05 | 9 | 8,9 | 8,8 | 8,6 | 8,3 | 7,9 | 7,4 | 6,9 | 6* | 5* | | | | | | |
| | NM4 50/20CE | 1,1 | 1,5 | | 10,1 | 10 | 9,9 | 9,8 | 9,6 | 9,3 | 9 | 8,4 | 7,7 | 7 | 6 | 4,2* | 2,5* | | | | | | |
| | NM4 50/20BE | 1,5 | 2 | | 12 | 11,9 | 11,8 | 11,7 | 11,6 | 11,4 | 11,2 | 10,7 | 10,1 | 9,4 | 8,7 | 7,2* | 4,7* | | | | | | |
| | NM4 50/20AE | 2,2 | 3 | | 14,4 | 14,35 | 14,3 | 14,2 | 14,1 | 14 | 13,8 | 13,4 | 12,9 | 12,4 | 11,7 | 10,3* | 8,2* | 6* | | | | | |
| I-B-NM4 50/25CE | NM4 50/25CE | 2,2 | 3 | | 17,9 | 17,8 | 17,7 | 17,4 | 17,1 | 16,7 | 16,3 | 15,5 | 14,6 | 13,3 | 11,8 | 8,5* | | | | | | | |
| I-B-NM4 50/25BE | NM4 50/25BE | 3 | 4 | | 21,4 | 21,3 | 21,2 | 21 | 20,7 | 20,3 | 19,9 | 19,1 | 18,3 | 17,1 | 16 | 13,8* | 11,3* | | | | | | |
| I-B-NM4 50/25AE | NM4 50/25AE | 4 | 5,5 | | 22,3 | 22,2 | 22,1 | 22 | 21,8 | 21,6 | 21,2 | 20,5 | 19,7 | 18,7 | 17,8 | 15,5* | 13* | | | | | | |
| B-NM4 65/160CE | NM4 65/16CE | 1,1 | 1,5 | | | | | | | 6,3 | 6,2 | 6,1 | 6 | 5,8 | 5,6 | 5,3 | 4,8 | 4 | 3,1 | | | | |
| B-NM4 65/160BE | NM4 65/16BE | 1,1 | 1,5 | | | | | | | 7,5 | 7,4 | 7,3 | 7,2 | 7 | 6,8 | 6,5 | 6 | 5,3 | 4,4 | 3,5* | | | |
| B-NM4 65/160AE | NM4 65/16AE | 1,5 | 2 | | | | | | | 9 | 8,9 | 8,8 | 8,7 | 8,6 | 8,4 | 8,1 | 7,6 | 6,9 | 6,2 | 5,3* | 3,8* | | |
| | NM4 65/20BE | 2,2 | 3 | | | | | | | 11,9 | 11,8 | 11,7 | 11,6 | 11,4 | 11,1 | 10,8 | 10,2 | 9,5 | 8,7 | 7,8* | 6,2* | 4,3* | |
| | NM4 65/20AE | 3 | 4 | | | | | | | 14,1 | 14 | 13,9 | 13,8 | 13,7 | 13,4 | 13,1 | 12,6 | 11,9 | 11,1 | 10,2* | 8,8* | 7,2* | |
| | NM4 65/25BE | 4 | 5,5 | | | | | | | 18 | 17,9 | 17,8 | 17,7 | 17,6 | 17,3 | 16,9 | 16,3 | 15,4 | 14,4 | 13,1* | 10,8* | 8,5* | |
| | NM4 65/25AE | 5,5 | 7,5 | | | | | | | 21,9 | 21,8 | 21,7 | 21,6 | 21,5 | 21,2 | 20,8 | 20,2 | 19,5 | 18,5 | 17,5* | 15,4* | 12,8* | |
| | NM4 65/31CE | 5,5 | 7,5 | | | | | | | 25,8 | 25,7 | 25,5 | 25,3 | 25 | 24,4 | 23,8 | 22,8 | 21,5 | 20 | 18,2* | 15* | 11* | |
| | NM4 65/31BE | 7,5 | 10 | | | | | | | 31 | 31 | 30,9 | 30,8 | 30,6 | 30,2 | 29,7 | 28,8 | 27,8 | 26,5 | 25* | 22,2* | 18,6* | |
| | NM4 65/31AE | 9,2 | 12,5 | | | | | | | 35,9 | 35,9 | 35,8 | 35,7 | 35,5 | 35,1 | 34,6 | 33,8 | 32,8 | 31,6 | 30,2* | 27,8* | 25* | |

| | NM4 | P ₂ | | Q m ³ /h | | | | | | | | | | | | | | | | | | | |
|--|--------------|----------------|------|------------------------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|------|------|------|------|-----|
| | | kW | HP | | 30 | 33 | 37,8 | 42 | 48 | 54 | 60 | 66 | 75 | 84 | 96 | 108 | 120 | 132 | 150 | 168 | 180 | 192 | 210 |
| | | l/min | | 500 | 550 | 630 | 700 | 800 | 900 | 1000 | 1100 | 1250 | 1400 | 1600 | 1800 | 2000 | 2200 | 2500 | 2800 | 3000 | 3200 | 3500 | |
| | NM4 80/16CE | 1,1 | 1,5 | H m | 5,4 | 5,3 | 5,2 | 5 | 4,8 | 4,6 | 4,3 | 3,9 | 3,1 | | | | | | | | | | |
| | NM4 80/16BE | 1,5 | 2 | | 6,7 | 6,6 | 6,5 | 6,3 | 6,1 | 5,9 | 5,6 | 5,2 | 4,6 | 3,7 | | | | | | | | | |
| | NM4 80/16AE | 2,2 | 3 | | 9,6 | 9,5 | 9,4 | 9,2 | 9 | 8,8 | 8,5 | 8,1 | 7,5 | 6,7 | 5,2 | | | | | | | | |
| | NM4 80/20CE | 2,2 | 3 | | 10,3 | 10,2 | 10,1 | 10 | 9,8 | 9,5 | 9,1 | 8,6 | 7,7 | 6,6 | 4,6 | | | | | | | | |
| | NM4 80/20BE | 3 | 4 | | 12,1 | 12 | 11,9 | 11,8 | 11,7 | 11,4 | 11,1 | 10,6 | 9,8 | 9 | 7,5 | 5,7* | | | | | | | |
| | NM4 80/20AE | 4 | 5,5 | | 13,9 | 13,8 | 13,7 | 13,6 | 13,5 | 13,3 | 13 | 12,6 | 11,8 | 11 | 9,6 | 7,9* | 6* | | | | | | |
| | NM4 80/25CE | 4 | 5,5 | | 16,9 | 16,8 | 16,7 | 16,6 | 16,3 | 15,9 | 15,4 | 14,8 | 13,9 | 12,7 | 11,1 | 9,3* | 7,2* | | | | | | |
| | NM4 80/25BE | 5,5 | 7,5 | | 20,7 | 20,6 | 20,5 | 20,4 | 20,3 | 20 | 19,6 | 19,1 | 18,2 | 17,1 | 15,4 | 13,5* | 11,4* | 9* | | | | | |
| | NM4 80/25AE | 7,5 | 10 | | 23,7 | 23,7 | 23,6 | 23,5 | 23,3 | 23 | 22,7 | 22,2 | 21,5 | 20,5 | 19 | 17,2* | 15,1* | 12,7* | | | | | |
| | NM4 80/31CE | 9,2 | 12,5 | | 28,8 | 28,8 | 28,7 | 28,6 | 28,3 | 27,9 | 27,4 | 26,8 | 25,8 | 24,6 | 22,6 | 20,4* | 17,8* | 15* | | | | | |
| | NM4 80/315BE | 11 | 15 | | 32,3 | 32,3 | 32,2 | 32,1 | 31,9 | 31,6 | 31,2 | 30,7 | 29,8 | 28,8 | 27 | 25,1* | 22,9* | 20* | | | | | |
| | NM4 80/315AE | 15 | 20 | | 37,4 | 37,4 | 37,3 | 37,2 | 37,1 | 37 | 36,7 | 36,3 | 35,6 | 34,7 | 33,2 | 31,3* | 29* | 26,4* | | | | | |
| | NM4 80/400CE | 18,5 | 25 | | 46,5 | 46,3 | 46,1 | 45,8 | 45,2 | 44,5 | 43,5 | 42,4 | 40 | 37,2 | 32,5 | 26,2* | 18,5* | | | | | | |
| | NM4 80/400BE | 22 | 30 | | 54 | 53,8 | 53,6 | 53,3 | 53 | 52,4 | 51,6 | 50,6 | 48,7 | 46,1 | 42 | 36,5* | 29,5* | 21* | | | | | |
| | NM4 80/400AE | 30 | 40 | | 61,5 | 61,4 | 61,3 | 61,1 | 60,8 | 60,2 | 59,4 | 58,4 | 56,5 | 54 | 50,5 | 45,5* | 40* | 32,5* | | | | | |

Performance $n \approx 1450$ rpm

| | NM4 | P ₂ | | Q m ³ /h | | | | | | | | | | | | | | | | | | | | |
|---------------|------|----------------|------|------------------------|--------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|--|
| | | kW | HP | | H m | | | | | | | | | | | | | | | | | | | |
| | | | | l/min | 800 | 900 | 1000 | 1100 | 1250 | 1400 | 1600 | 1800 | 2000 | 2200 | 2500 | 2800 | 3000 | 3200 | 3500 | 4000 | 4500 | 5000 | 5500 | |
| NM4 100/20CE | 3 | 4 | 9,4 | 9,3 | 9,2 | 9,1 | 8,9 | 8,5 | 8 | 7,3 | 6,5 | 5,6 | 4* | | | | | | | | | | | |
| NM4 100/20BE | 4 | 5,5 | 12 | 11,9 | 11,8 | 11,7 | 11,5 | 11,2 | 10,7 | 10 | 9,3 | 8,4 | 6,7* | 4,5* | | | | | | | | | | |
| NM4 100/20AE | 5,5 | 7,5 | 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* | | | | | | | | |
| NM4 100/25BE | 7,5 | 10 | 19,5 | 19,5 | 19,4 | 19,3 | 19 | 18,7 | 18,2 | 17,5 | 16,6 | 15,6 | 13,8* | 11,7* | 10* | 8,4* | 5,5* | | | | | | | |
| NM4 100/25AE | 9,2 | 12,5 | 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* | 8,9* | | | | | | | |
| NM4 100/315CE | 11 | 15 | 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* | | | | | | | | |
| NM4 100/315BE | 15 | 20 | 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* | | | | | | | |
| NM4 100/315AE | 18,5 | 25 | 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* | | | | | | | |
| NM4 100/400CE | 22 | 30 | 41,3 | 41,2 | 41,1 | 41 | 40,7 | 40,4 | 39,8 | 39 | 38 | 36,5 | 34* | 31* | 28,7* | 26* | | | | | | | | |
| NM4 100/400BE | 30 | 40 | 50,2 | 50,1 | 50 | 49,9 | 49,7 | 49,4 | 48,8 | 48 | 47,1 | 46 | 44* | 41,3* | 39,5* | 37* | 33,5* | | | | | | | |
| NM4 100/400AE | 37 | 50 | 58,2 | 58,1 | 58 | 57,9 | 57,8 | 57,6 | 57,2 | 56,3 | 55,7 | 54,5 | 52,7* | 50,5* | 49* | 47* | 44* | | | | | | | |

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| | NM4 | P ₂ | | Q m ³ /h | | | | | | | | | | | | | | | | | | |
|---------------|------|----------------|------|------------------------|--------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|
| | | kW | HP | | H m | | | | | | | | | | | | | | | | | |
| | | | | l/min | 1400 | 1600 | 1800 | 2000 | 2200 | 2500 | 2800 | 3000 | 3200 | 3500 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 |
| NM4 125/25EE | 5,5 | 7,5 | 11 | 10,8 | 10,5 | 10,1 | 9,7 | 9,1 | 8,3 | 7,8 | 7,2 | 6,2 | 4,4* | | | | | | | | | |
| NM4 125/25DE | 7,5 | 10 | 14 | 13,9 | 13,7 | 13,4 | 13 | 12,4 | 11,6 | 11 | 10,4 | 9,4 | 7,4* | 5,1* | | | | | | | | |
| NM4 125/25CE | 9,2 | 12,5 | 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* | | | | | | | |
| NM4 125/250BE | 11 | 15 | 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* | | | | | | | |
| NM4 125/250AE | 15 | 20 | 22,7 | 22,7 | 22,6 | 22,4 | 22,2 | 21,8 | 21,2 | 20,8 | 20,1 | 19,3 | 17,4* | 15* | 12,4* | 9,3* | | | | | | |
| NM4 125/315CE | 18,5 | 25 | 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* | | | | | | |
| NM4 125/315BE | 22 | 30 | 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* | | | | | | |
| NM4 125/315AE | 30 | 40 | 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* | | | | | | |
| NM4 125/400CE | 37 | 50 | 45,4 | 45,3 | 45,2 | 45,1 | 44,9 | 44,4 | 43,7 | 43 | 42 | 40 | 37* | 33* | 28,5* | 23,5* | | | | | | |
| NM4 125/400BE | 45 | 60 | 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* | | | | | | |
| NM4 125/400AE | 55 | 75 | 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* | | | | | | |
| NM4 150/315DE | 18,5 | 25 | | | | | 22,8 | 22,6 | 22,3 | 22 | 21,7 | 21,1 | 20 | 18,6 | 17 | 15,1 | 13 | 10,6* | 8* | | | |
| NM4 150/315CE | 22 | 30 | | | | | 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* | | |
| NM4 150/315BE | 30 | 40 | | | | | 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* | | |
| NM4 150/315AE | 37 | 50 | | | | | 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* | 18,5* | |
| NM4 150/400CE | 45 | 60 | | | | | 45 | 44,9 | 44,7 | 44,5 | 44 | 43,5 | 42,5 | 40,5 | 38,5 | 36 | 33,5 | 30,5* | 27* | 23,5* | 19,5* | |
| NM4 150/400BE | 55 | 75 | | | | | 50,8 | 50,7 | 50,5 | 50,3 | 50 | 49,5 | 48,5 | 47 | 45 | 43 | 40,5 | 38* | 35* | 32* | 28,5* | |
| NM4 150/400AE | 75 | 100 | | | | | 58,8 | 58,7 | 58,6 | 58,5 | 58,3 | 57,9 | 57 | 55,5 | 54 | 52 | 49,5 | 47* | 44* | 41* | 37,5 | |

NM4 Standard construction.

B-NM4 Bronze construction.

I-NM4 Stainless steel construction.

P₂ Rated motor power output.

H Total head in m.

* Maximum suction lift 1-2 m.

Tolerances according to ISO 9906, annex A.

Rated currents

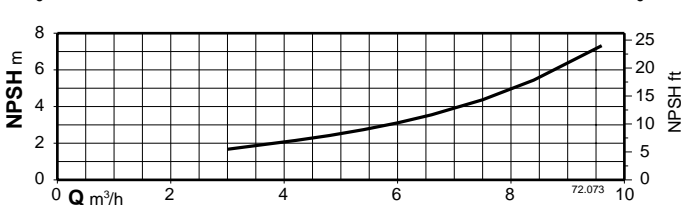
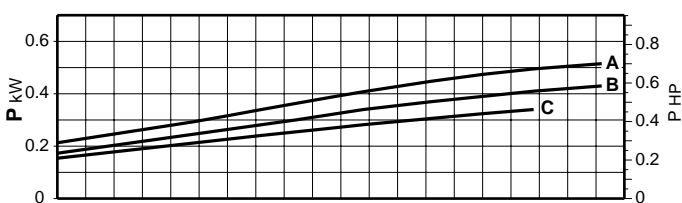
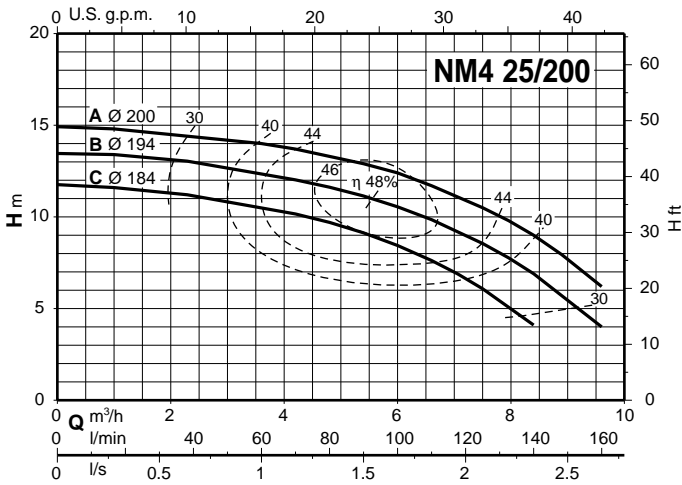
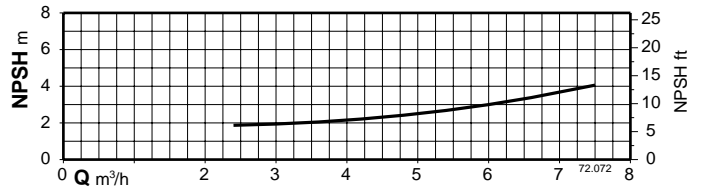
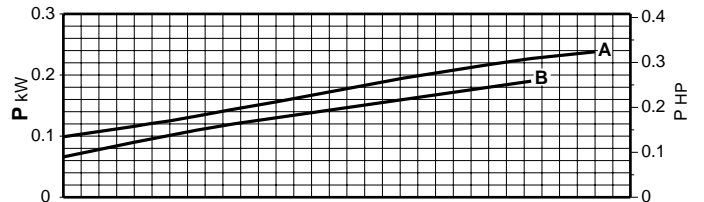
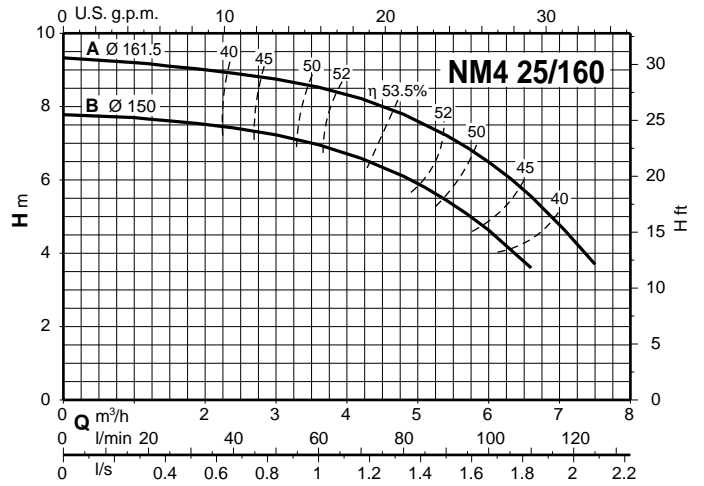
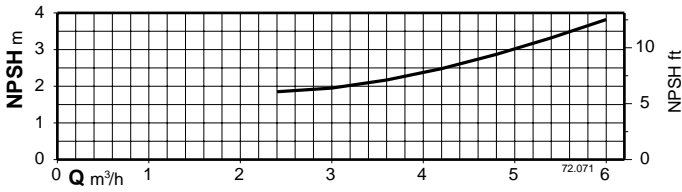
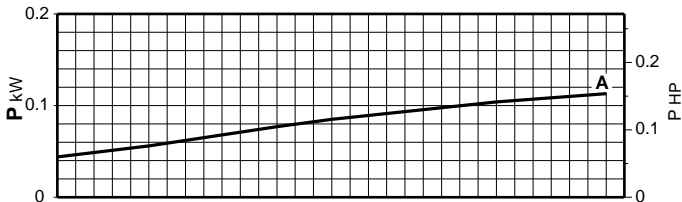
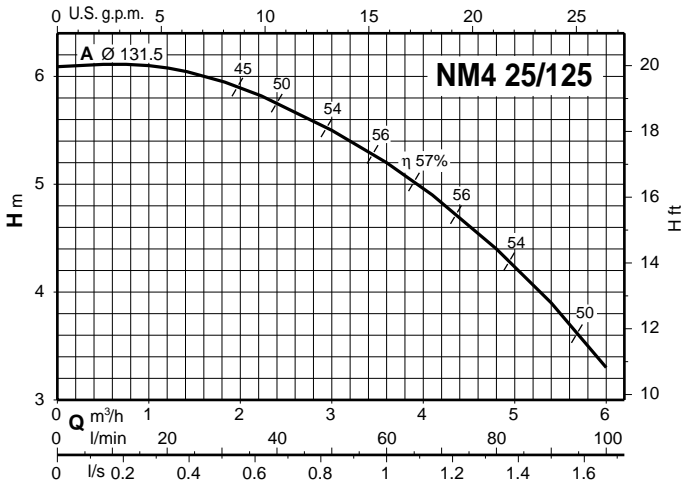
| P ₂ | | 230 V Δ / 400 V Y | | |
|----------------|------|-------------------|------------------|--------------------------------|
| kW | HP | I _N A | I _A A | I _A /I _N |
| 0,25 | 0,34 | 1,4 | 0,8 | 3,5 |
| 0,37 | 0,5 | 1,6 | 0,92 | 4 |
| 0,55 | 0,75 | 2,8 | 1,6 | 4,7 |
| 0,75 | 1 | 3,5 | 2 | 4,8 |
| 1,1 | 1,5 | 5 | 2,9 | 4,3 |
| 1,5 | 2 | 6 | 3,5 | 4 |
| 2,2 | 3 | 8,6 | 5 | 5,5 |
| 3 | 4 | 10,9 | 6,3 | 4,6 |

| P ₂ | | 400 V Δ / 690 V Y | | |
|----------------|------|-------------------|------------------|--------------------------------|
| kW | HP | I _N A | I _A A | I _A /I _N |
| 4 | 5,5 | 8,5 | 4,9 | 4,5 |
| 5,5 | 7,5 | 12,5 | 7,2 | 6,6 |
| 7,5 | 10 | 16 | 9,2 | 6,7 |
| 9,2 | 12,5 | 19 | 11 | 7,1 |
| 11 | 15 | 24 | 14 | 7,4 |
| 15 | 20 | 32 | 18,5 | 7 |
| 18,5 | 25 | 36,5 | 21 | 7,3 |
| 22 | 30 | 43 | 25 | 7,5 |
| 30 | 40 | 56 | 32 | 7,5 |
| 37 | 50 | 69 | 40 | 6 |
| 45 | 60 | 83 | 48 | 6,4 |
| 55 | 75 | 101 | 58 | 7,3 |
| 75 | 100 | 136 | 78 | 6 |

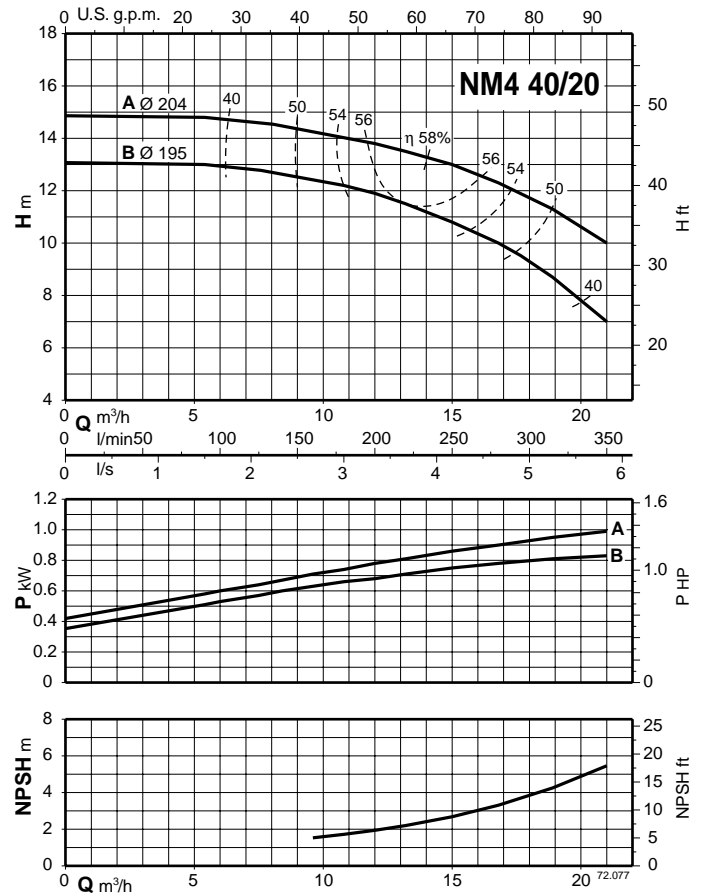
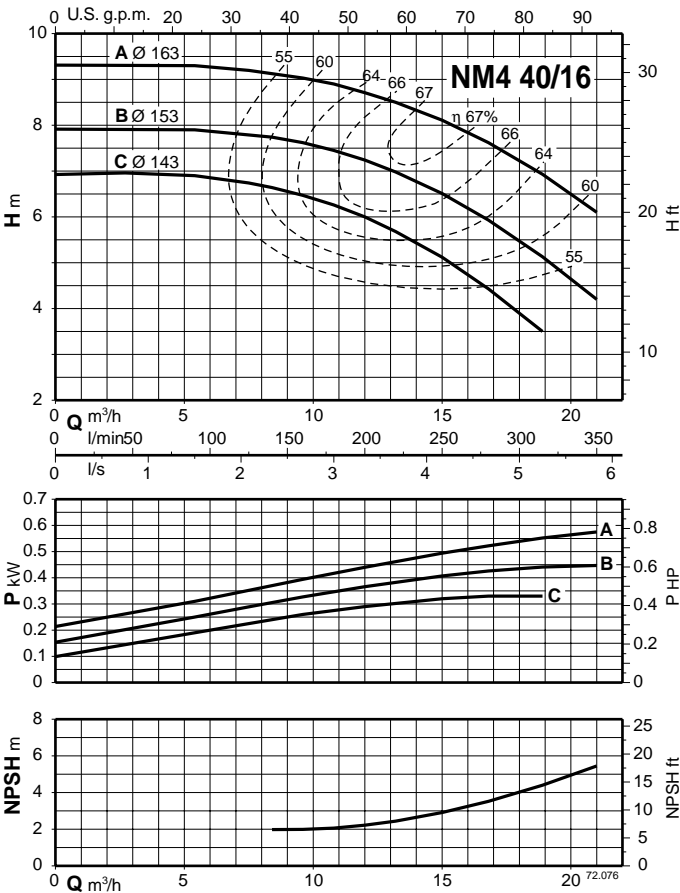
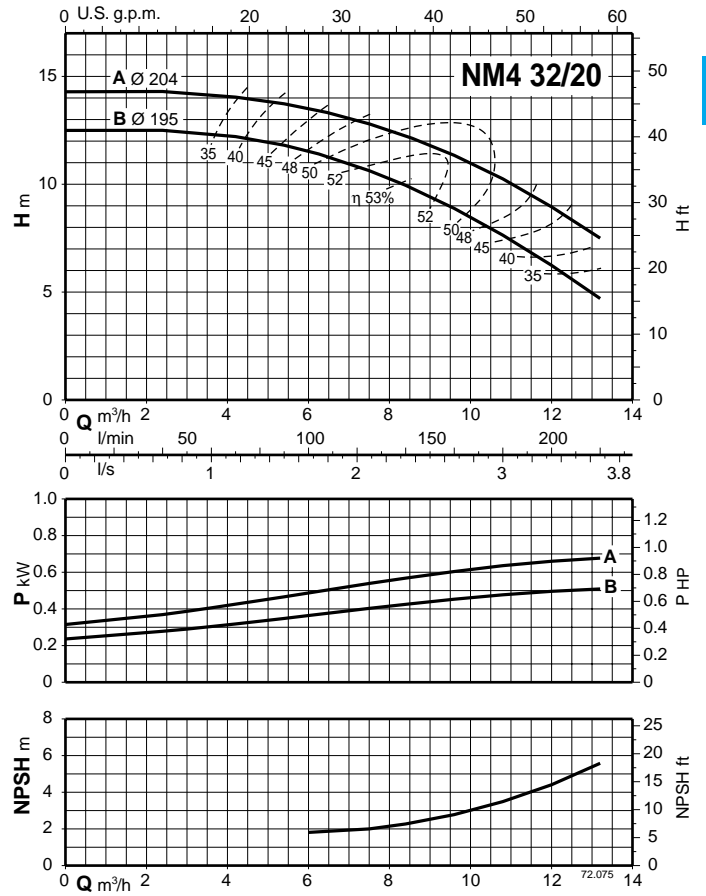
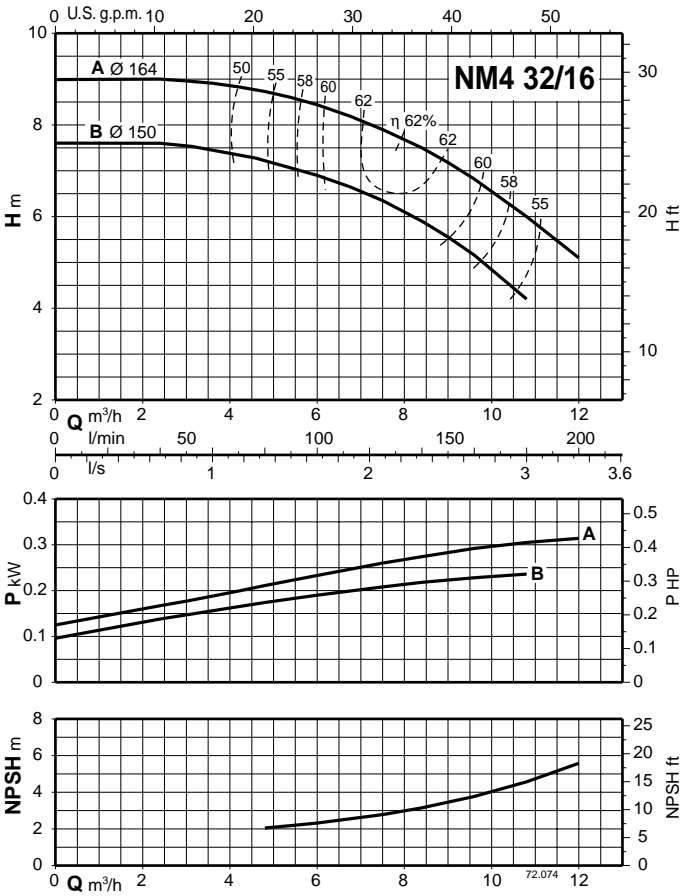
P₂ Rated motor power output.

I_A/I_N D.O.L. starting current / Nominal current

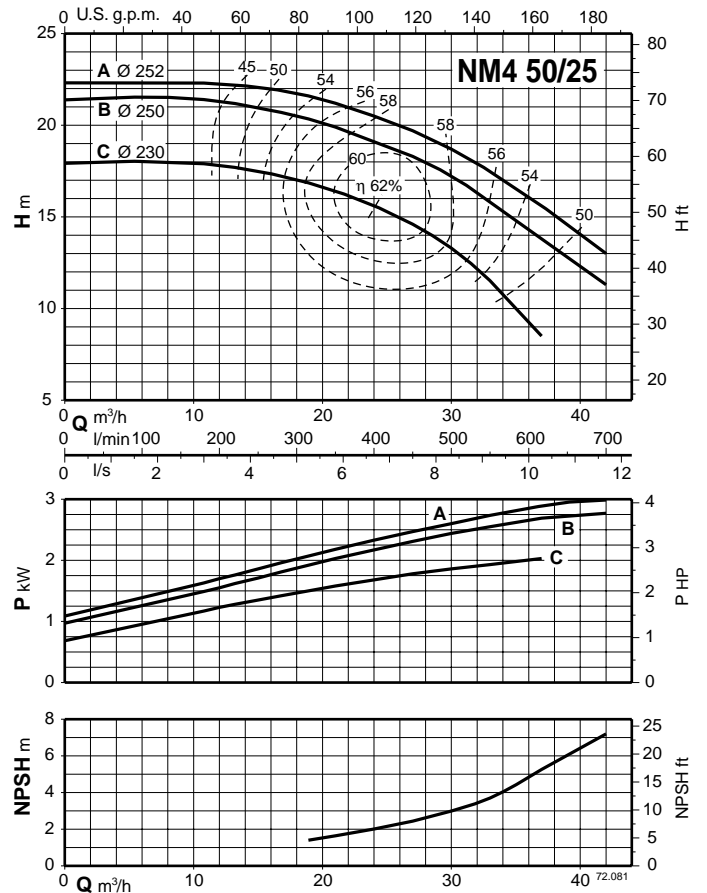
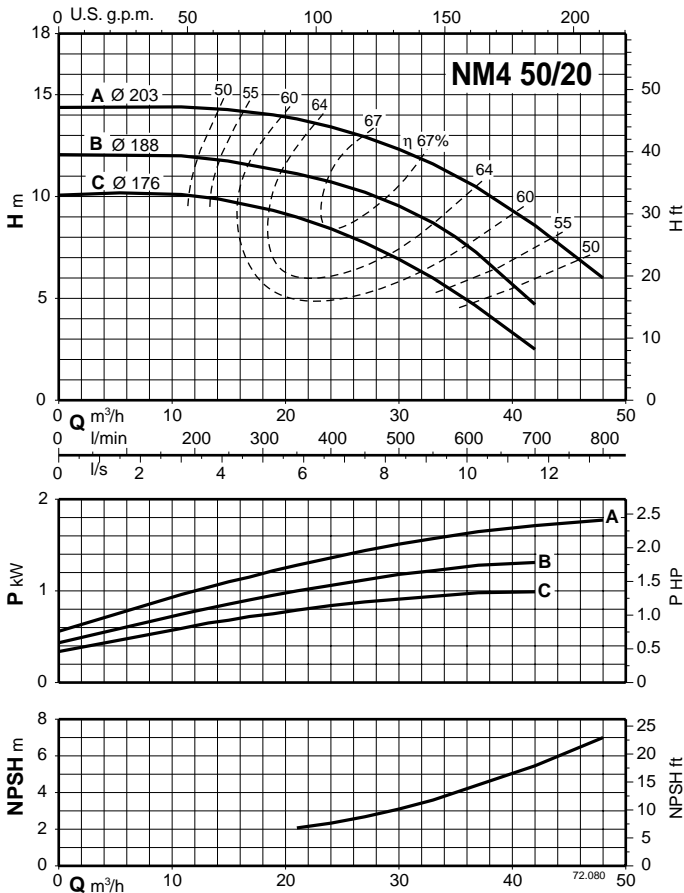
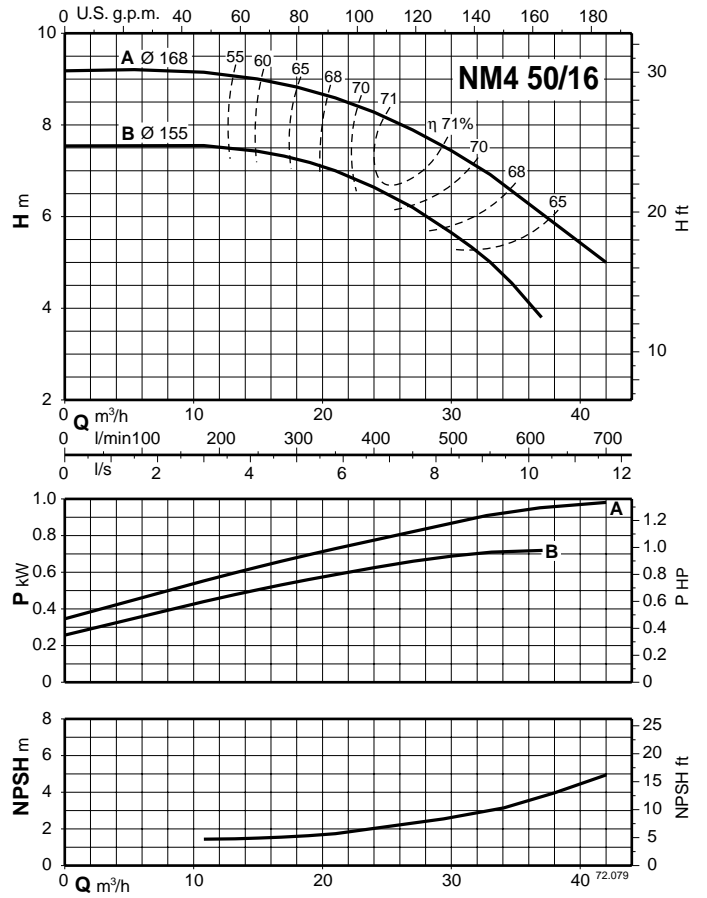
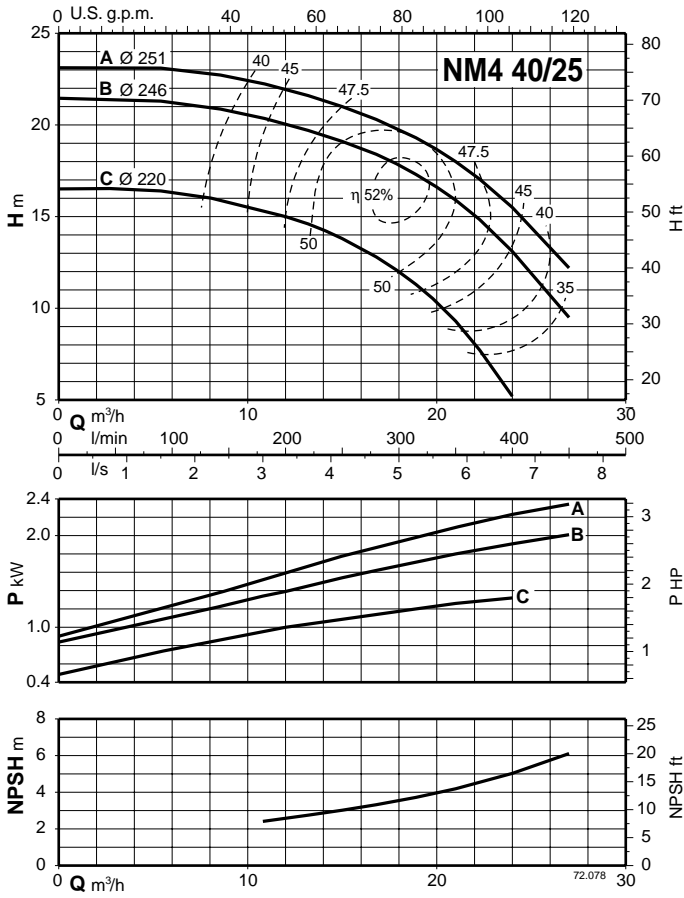
Characteristic curves $n \approx 1450$ rpm



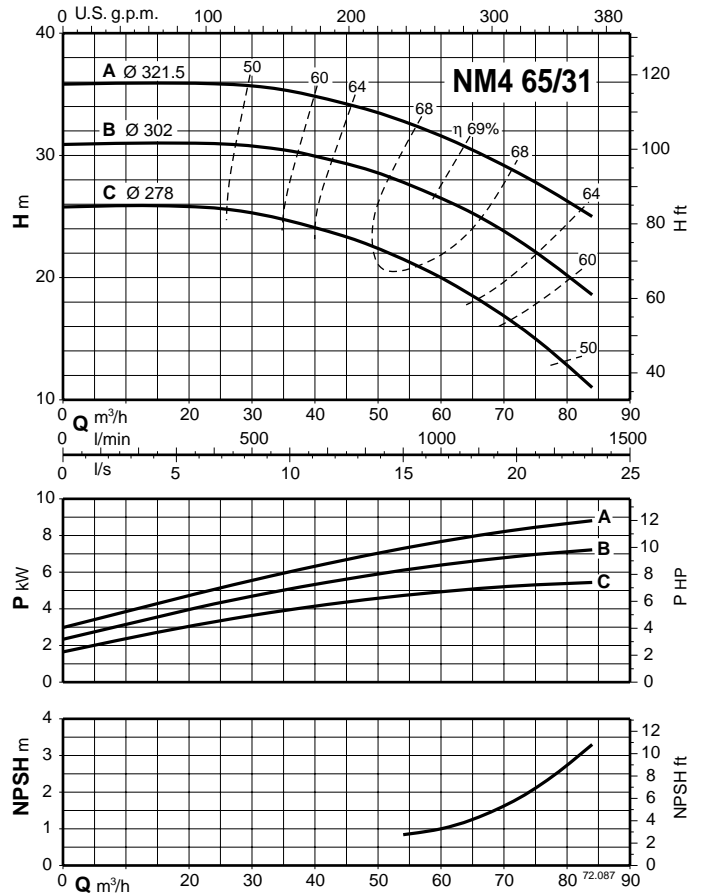
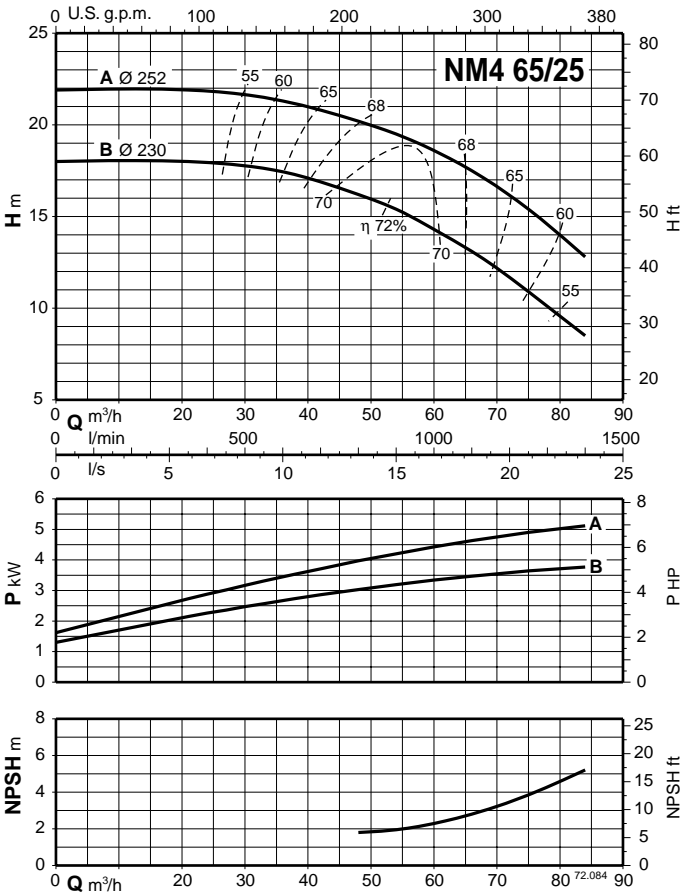
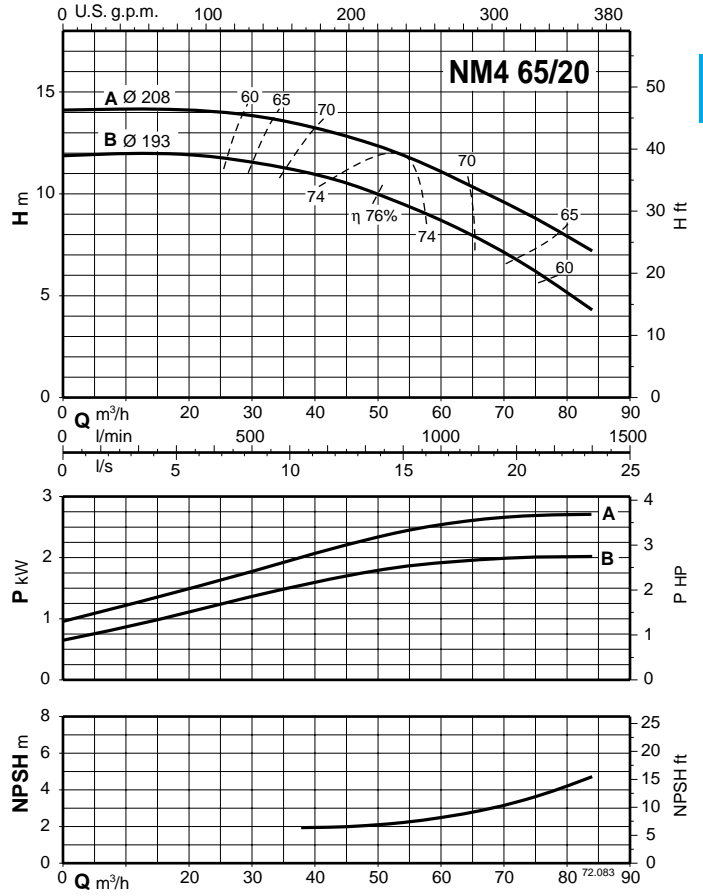
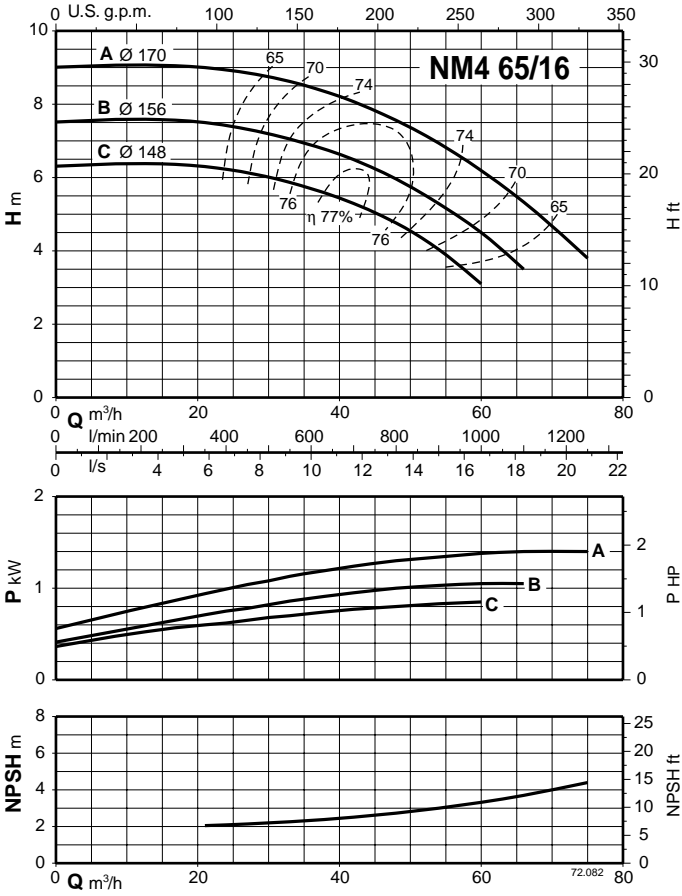
Characteristic curves $n \approx 1450$ rpm



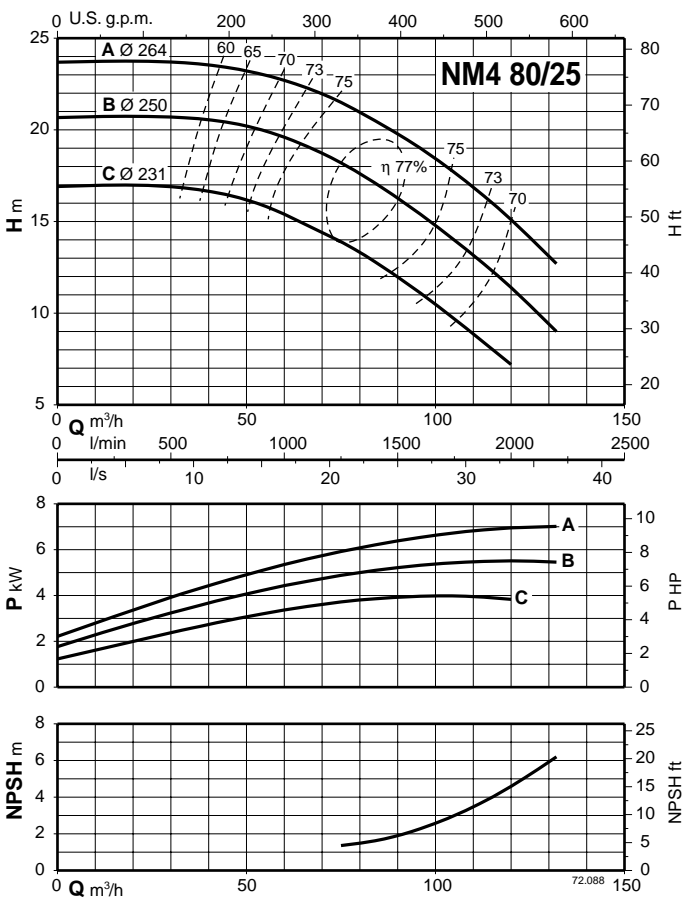
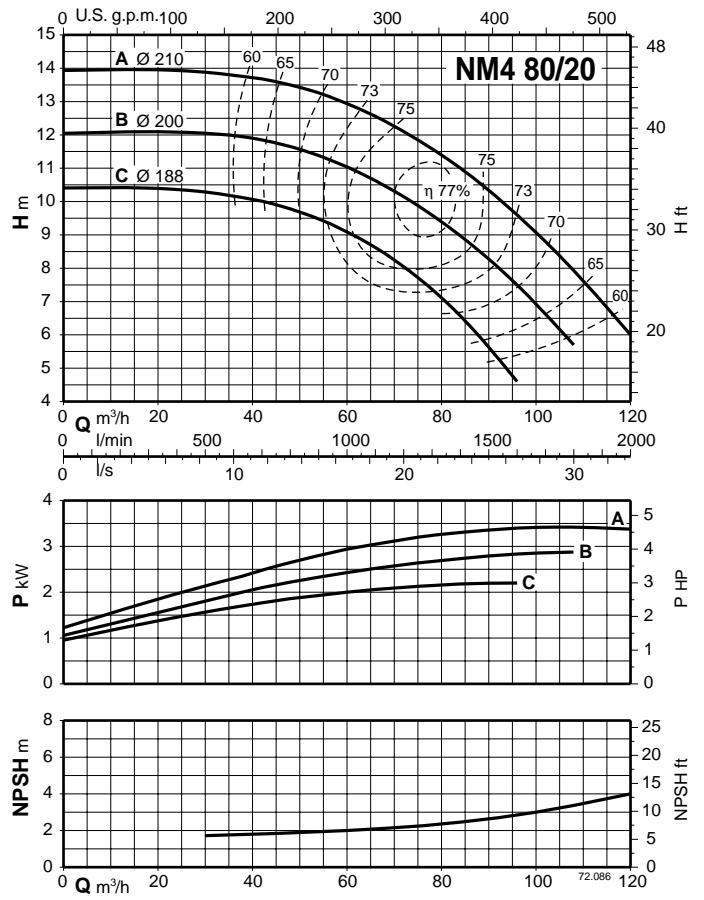
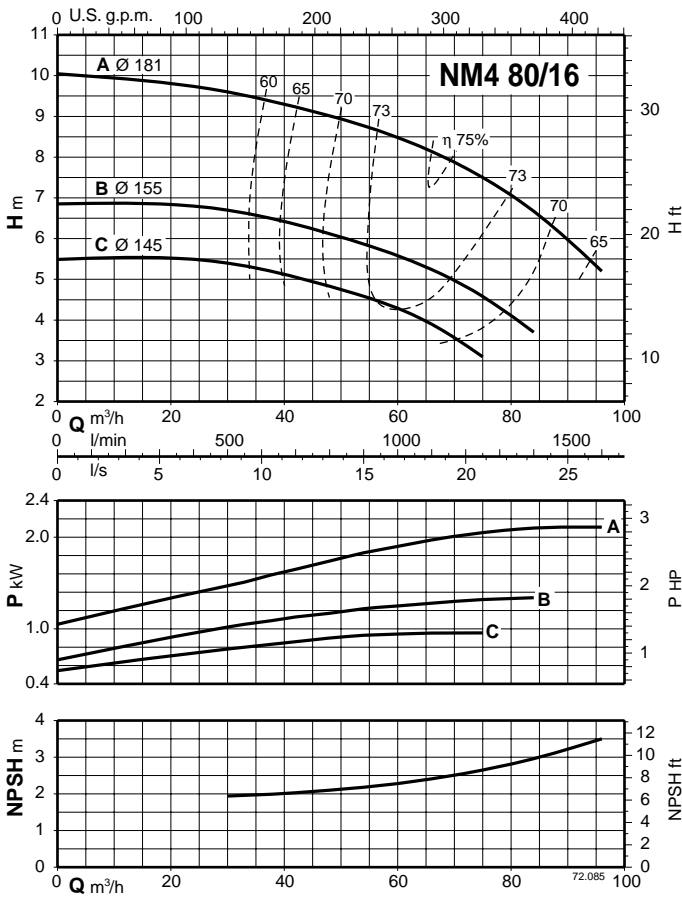
Characteristic curves $n \approx 1450$ rpm



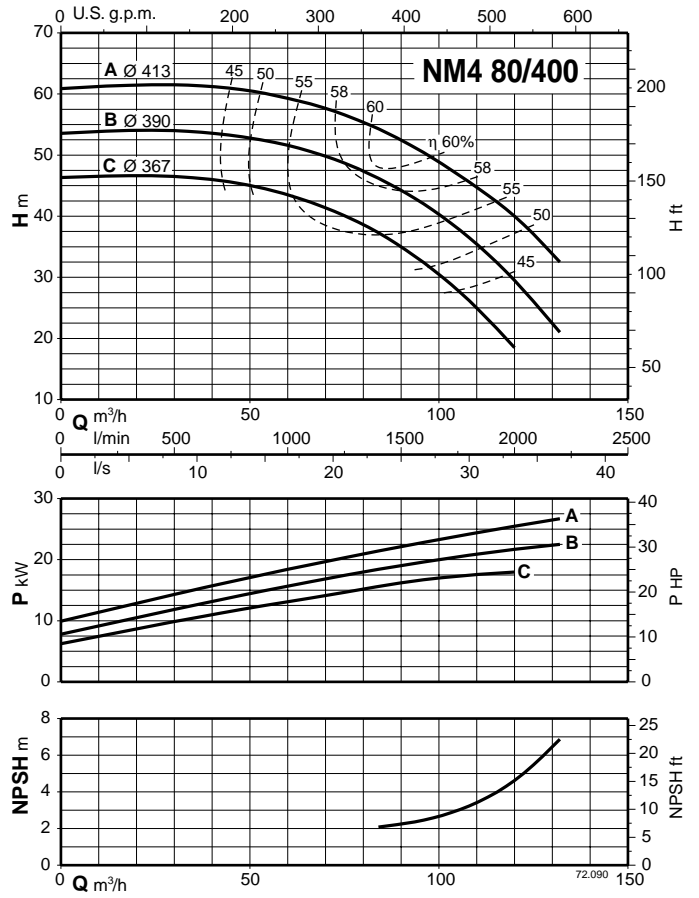
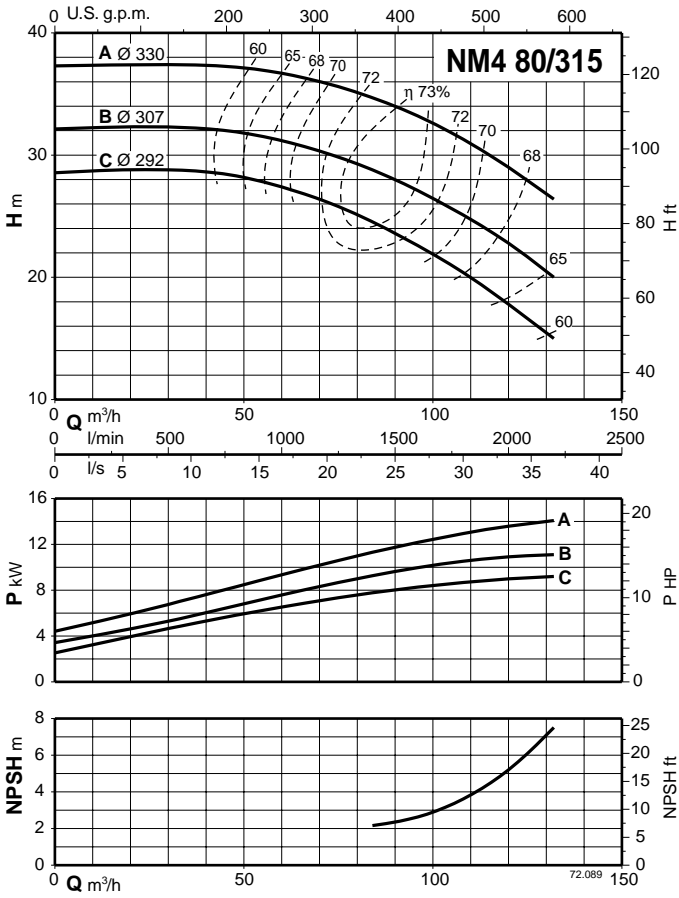
Characteristic curves $n \approx 1450$ rpm



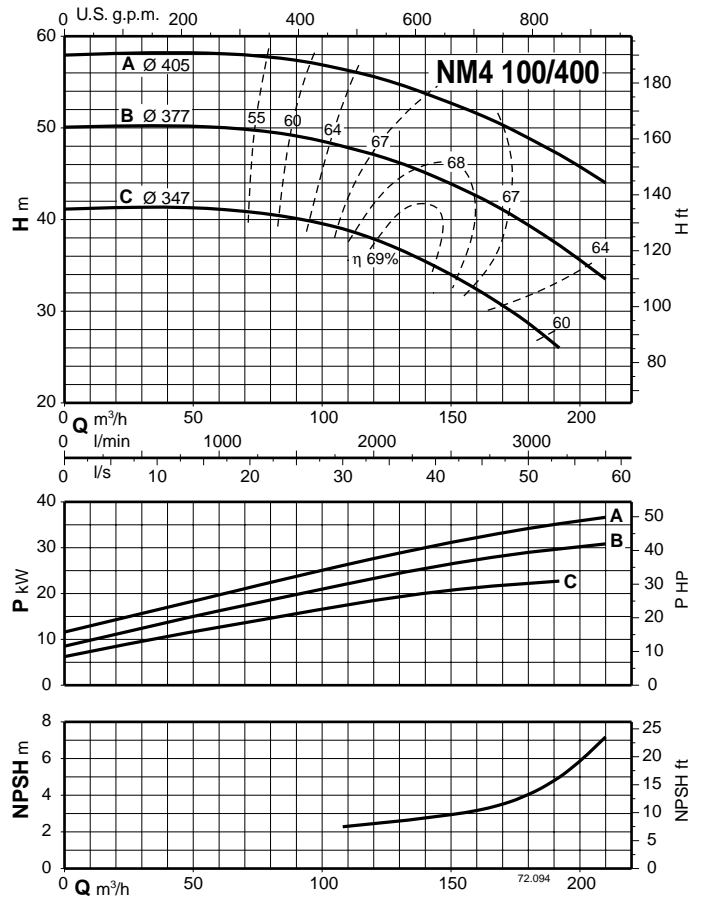
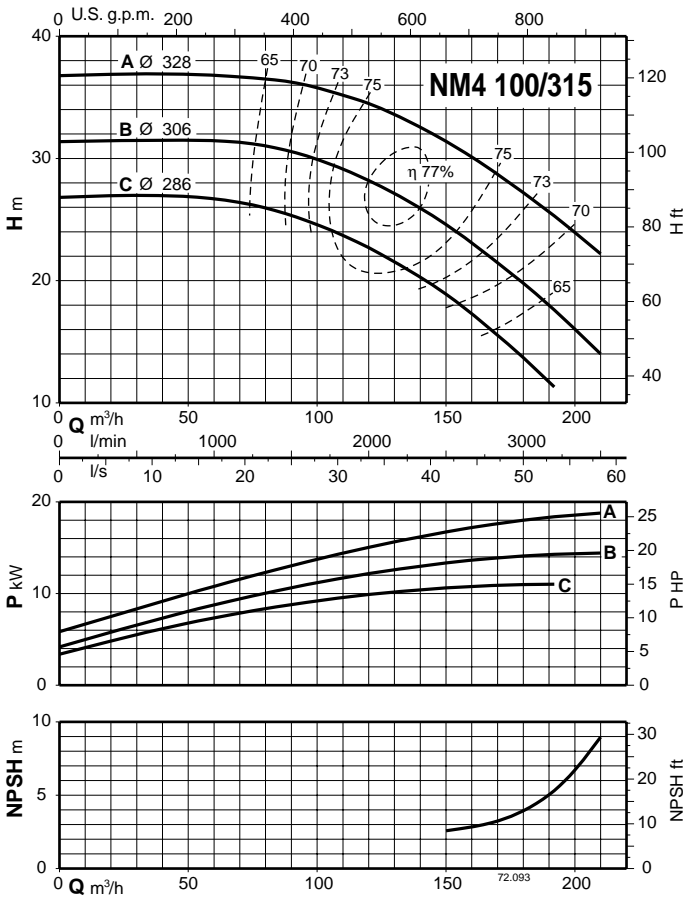
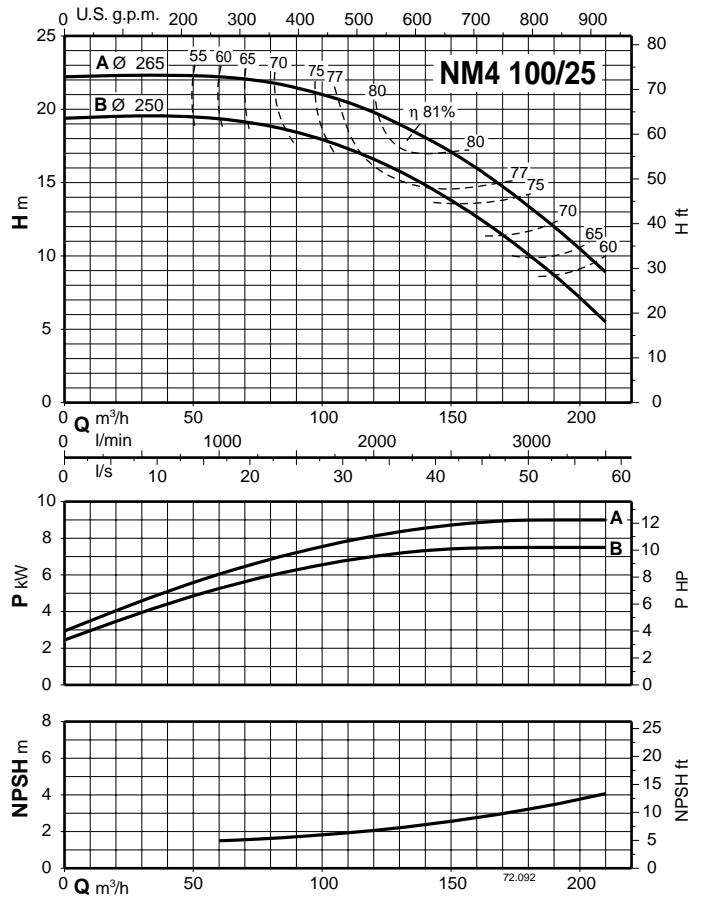
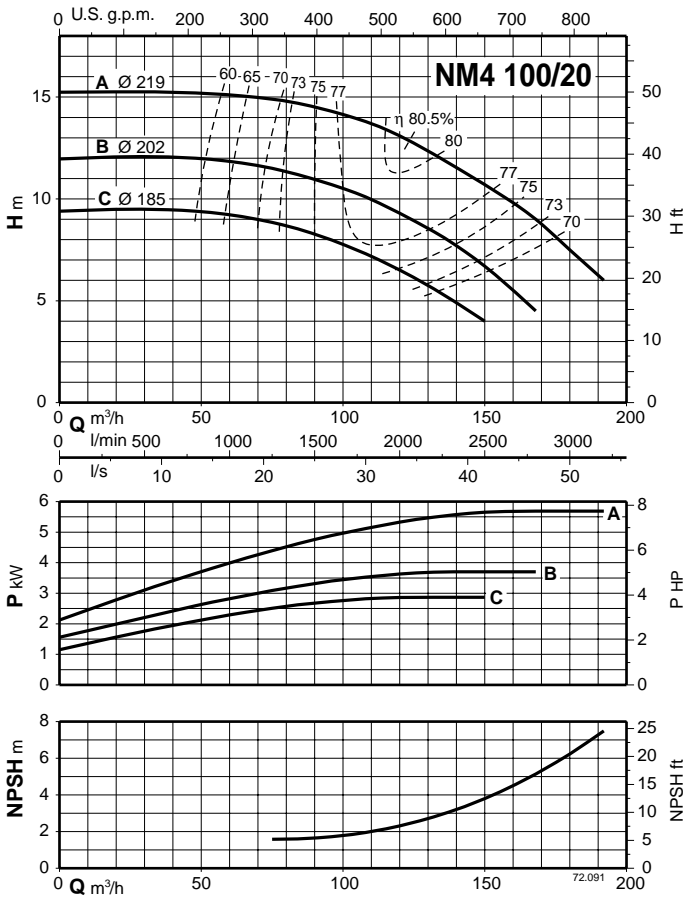
Characteristic curves $n \approx 1450$ rpm



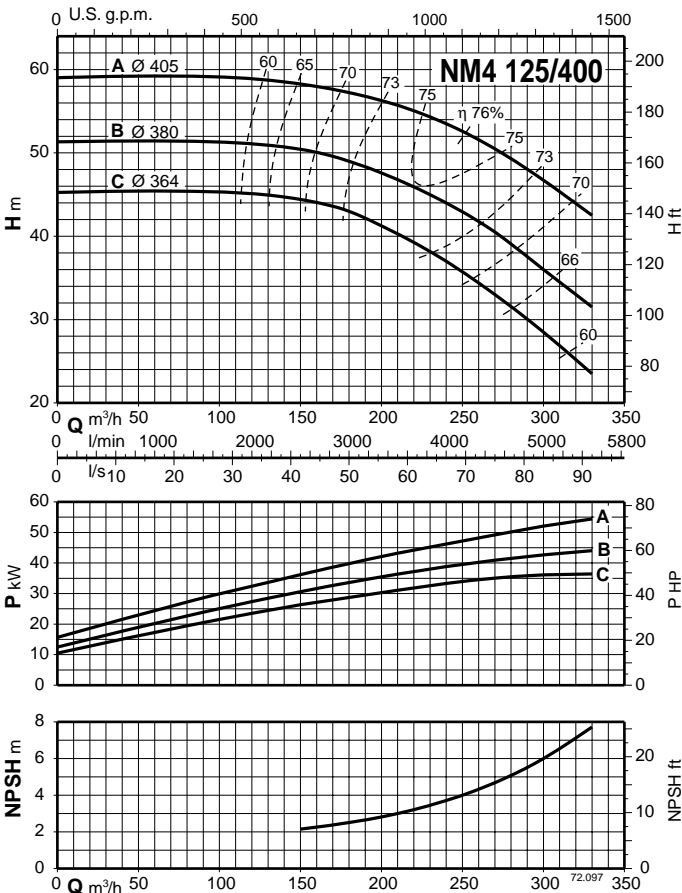
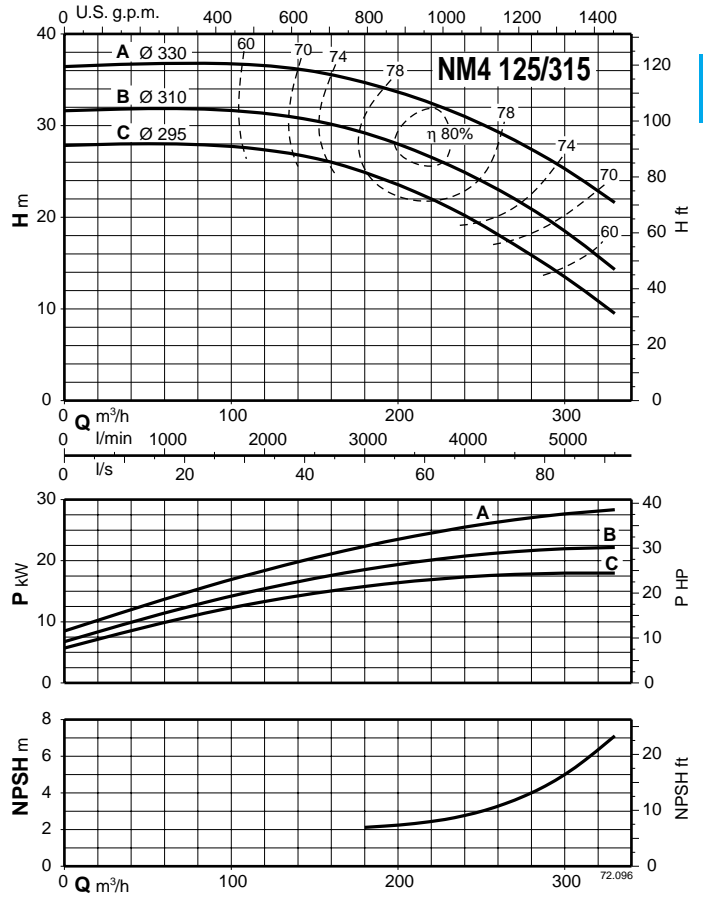
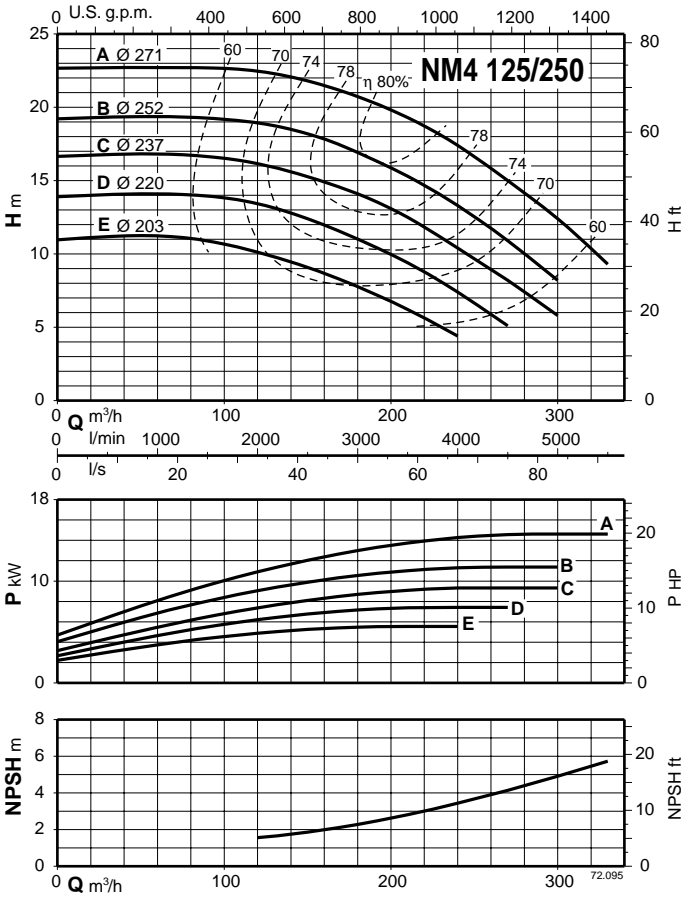
Characteristic curves $n \approx 1450$ rpm



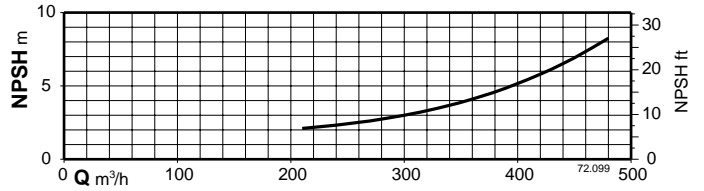
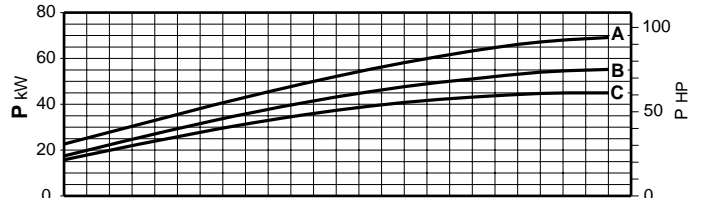
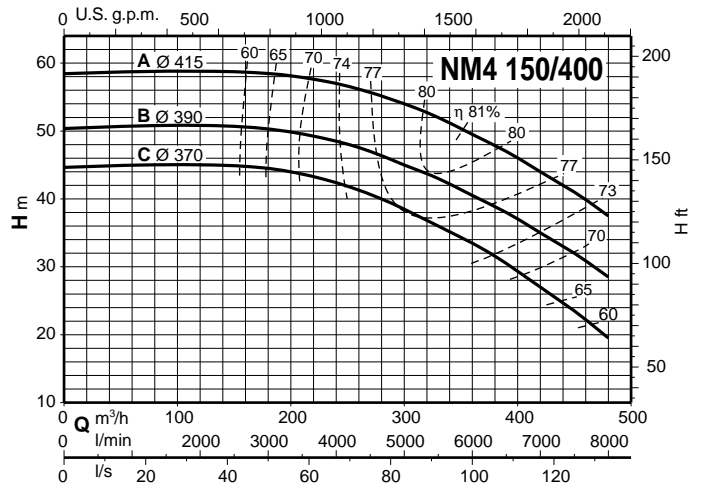
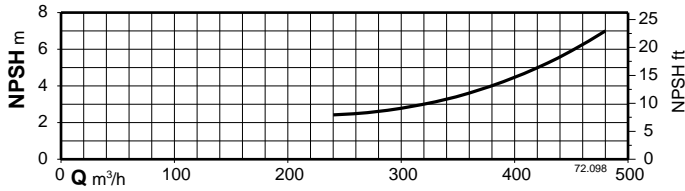
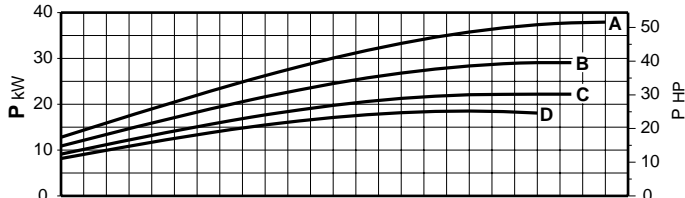
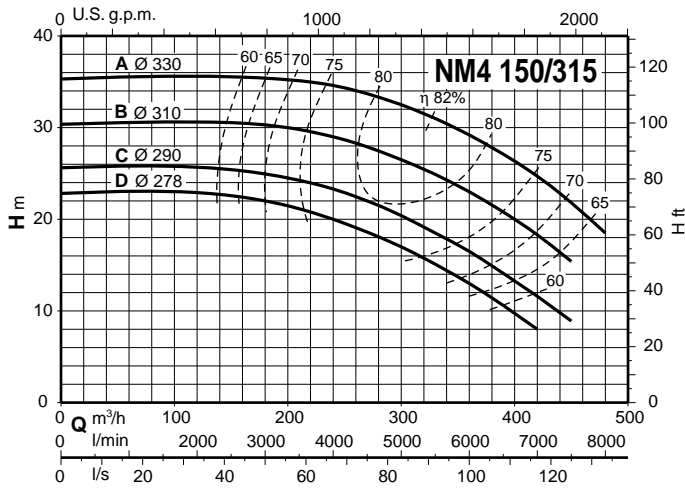
Characteristic curves $n \approx 1450$ rpm



Characteristic curves $n \approx 1450$ rpm

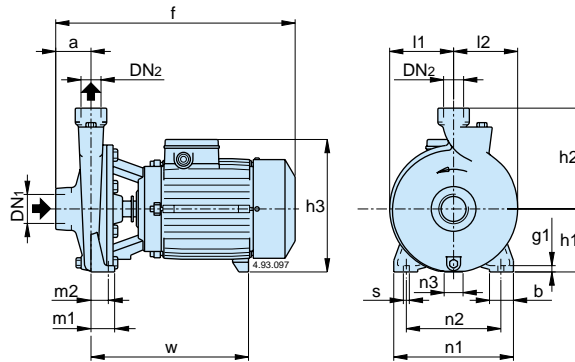


Characteristic curves $n \approx 1450$ rpm



Dimensions and weights

1



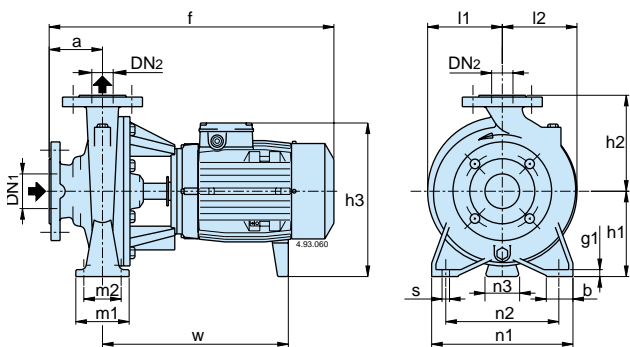
Standard construction

| Picture | NM4 | DN1 | DN2 | mm | | | | | | | | | | | | | | | kg | | | |
|---------|--------------------|-------|-----|---------|-----|-----|-----|-----|------|------|-----|-----|----|----|------|-----|-----|-----|----|------------|-------|-------|
| | | | | ISO 228 | a | f | h1 | h2 | h3 | m1 | m2 | n1 | n2 | n3 | b | s | l1 | l2 | w | g | I-NM4 | B-NM4 |
| 1 | NM4 25/125AE | G 1/2 | G 1 | 56 | 320 | 90 | 140 | 200 | 37,5 | 27,5 | 170 | 130 | 9 | 38 | 9,5 | 85 | 88 | 219 | 10 | 13,5 | | |
| | NM4 25/160AE-BE | | | 56 | 380 | 100 | 160 | 210 | 37,5 | 27,5 | 190 | 150 | 30 | 38 | 9,5 | 102 | 102 | 250 | 10 | 17,5 | | |
| | NM4 25/200AE-BE-CE | | | 63 | 385 | 125 | 180 | 235 | 45 | 32,5 | 245 | 200 | 49 | 45 | 11,5 | 125 | 125 | 250 | 11 | 25-23-21,5 | | |

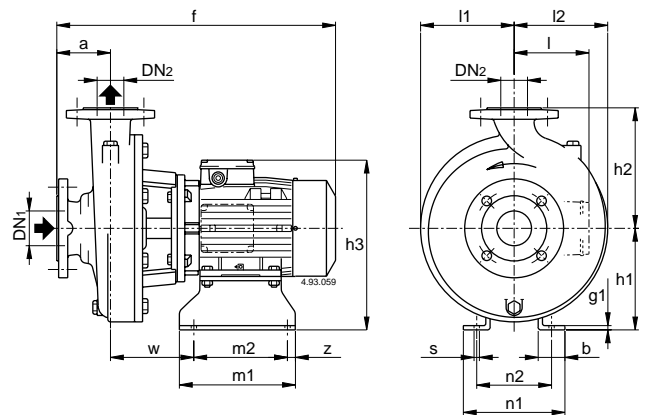
Bronze construction B-NM4 and Stainless steel construction I-NM4

| Picture | B-NM4 I-NM4 | DN1 | DN2 | mm | | | | | | | | | | | | | | | | | kg | | | |
|---------|------------------------|-------|-----|---------|-----|-----|-----|-----|------|------|-----|-----|----|----|----|------|---|-----|-----|-----|----|---|----------|----------|
| | | | | ISO 228 | a | f | h1 | h2 | h3 | m1 | m2 | n1 | n2 | n3 | z | b | s | l | l1 | l2 | w | g | I-NM4 | B-NM4 |
| 1 | B-NM4 25/160AE-BE | G 1/2 | G 1 | 56 | 380 | 100 | 160 | 210 | 37,5 | 27,5 | 190 | 150 | 30 | - | 38 | 9,5 | - | 102 | 102 | 250 | 10 | | 19-19 | |
| | I-B-NM4 25/200AE-BE-CE | | | 63 | 400 | 125 | 180 | 235 | 45 | 32,5 | 245 | 200 | 49 | - | 45 | 11,5 | - | 125 | 125 | 250 | 11 | | 26-24-22 | 27-25-23 |

2

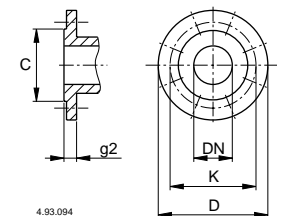


3



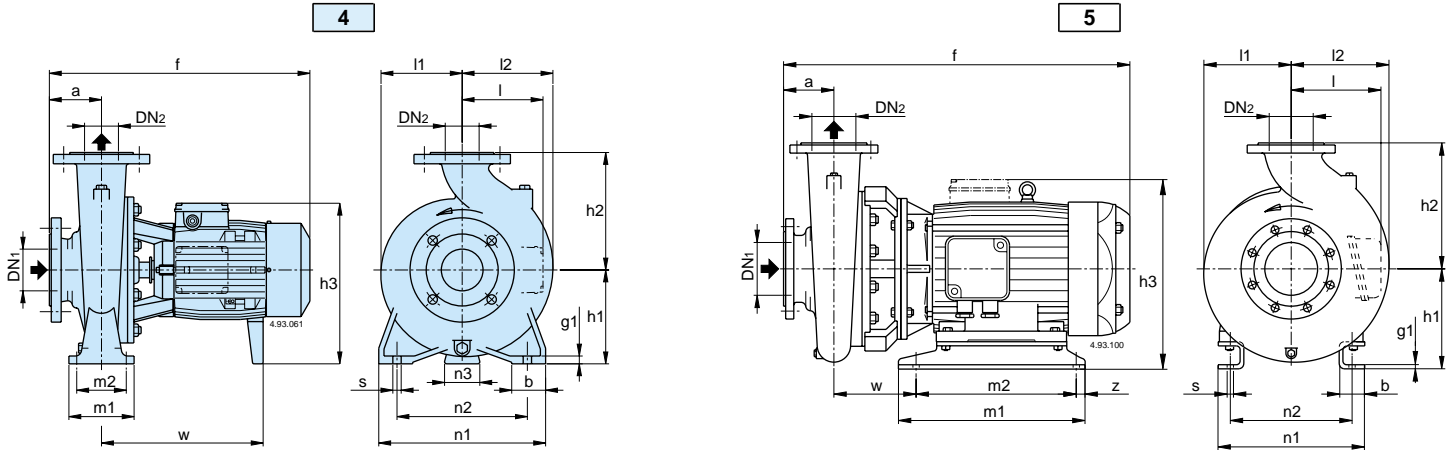
Bronze construction B-NM4 and Stainless steel construction I-NM4

| Picture | B-NM4 I-NM4 | DN1 | DN2 | mm | | | | | | | | | | | | | | | | | kg | | | |
|---------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|-----|-----|-----|-----|-------|----------|-------|
| | | | | a | f | h1 | h2 | h3 | m1 | m2 | n1 | n2 | n3 | z | b | s | l | l1 | l2 | w | g1 | I-NM4 | B-NM4 | |
| 2 | B-NM4 32/160AE-BE | 50 | 32 | 80 | 455 | 132 | 160 | 242 | 100 | 70 | 240 | 190 | 47 | - | 50 | 14 | - | 120 | 120 | 295 | 12 | | 38-38 | |
| | I-B-NM4 32/200AE-BE | 50 | 32 | 80 | 455 | 160 | 180 | 270 | 100 | 70 | 240 | 190 | 62 | - | 50 | 14 | - | 140 | 140 | 295 | 12 | | 43-40 | 43-41 |
| | B-NM4 40/160AE-BE-CE | 65 | 40 | 80 | 455 | 132 | 160 | 242 | 100 | 70 | 240 | 190 | 47 | - | 50 | 14 | - | 119 | 119 | 295 | 12 | | 41-40-38 | |
| | B-NM4 40/200AE-BE | 65 | 40 | 100 | 495 | 160 | 180 | 270 | 100 | 70 | 265 | 212 | 62 | - | 50 | 14 | - | 140 | 140 | 315 | 12 | | 52-52 | |
| 3 | I-B-NM4 4025/BE-CE | 65 | 40 | 100 | 530 | | | 318 | 205 | 175 | 190 | 140 | | 15 | 54 | 10 | | 170 | 175 | 156 | | 6 | 70-65 | 73-70 |
| | I-B-NM4 4025/AE | | | | 560 | 190 | 225 | - | 280 | 250 | 230 | 190 | | 64 | 12 | | 64 | 12 | | 170 | 175 | 125 | | 84 |
| 2 | B-NM4 50/160AE-BE | 65 | 50 | 100 | 495 | 160 | 180 | 270 | 100 | 70 | 265 | 212 | 62 | - | 50 | 14 | - | 127 | 141 | 315 | 12 | | 52-52 | |
| 3 | I-B-NM4 5025/CE | 65 | 50 | 100 | 530 | | | 318 | 205 | 175 | 190 | 140 | | 15 | 54 | 10 | | 170 | 175 | 156 | | 6 | 70 | 77 |
| | I-B-NM4 5025/AE-BE | | | | 560 | 190 | 225 | - | 280 | 250 | 230 | 190 | | 64 | 12 | | 64 | 12 | | 170 | 175 | 125 | | 84 |
| 2 | B-NM4 65/160BE-CE | 80 | 65 | 100 | 435 | | | 270 | 125 | 95 | 280 | 212 | 62 | - | 65 | 14 | - | 150 | 172 | 315 | | 15 | 60-60 | 68 |
| | B-NM4 65/160AE | | | | 545 | 160 | 200 | 288 | 125 | 95 | 280 | 212 | 60 | | 60 | | 65 | 14 | - | 150 | 172 | 350 | | 15 |



| mm | | | | | | |
|----|-----|-----|-----|-------------|----|----|
| DN | C | K | D | Holes N° | Ø | g2 |
| 32 | 78 | 100 | 140 | 4 | 18 | 18 |
| 40 | 88 | 110 | 150 | 4 | 18 | 18 |
| 50 | 102 | 125 | 165 | 4 | 18 | 20 |
| 65 | 122 | 145 | 185 | 4 | 18 | 20 |
| 80 | 138 | 160 | 200 | 4 | 18 | 22 |

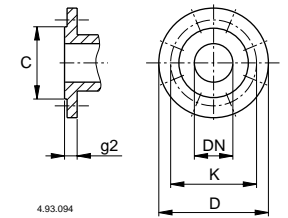
Dimensions and weights



Standard construction

| Picture | NM4 | mm | | | | | | | | | | | | | | | | | | | kg | | |
|------------------|-------------------|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|---------|----------|-----------|
| | | DN1 | DN2 | a | f | h1 | h2 | h3 | m1 | m2 | n1 | n2 | n3 | z | b | s | l | l1 | l2 | w | | g1 | |
| 4 | NM4 32/16AE-BE | 50 | 32 | 80 | 410 | 132 | 160 | 242 | 100 | 70 | 240 | 190 | 47 | - | 50 | 14 | - | 120 | 120 | 255 | 12 | 30,5-30 | |
| | NM4 32/20AE-BE | 50 | 32 | 80 | 410 | 160 | 180 | 270 | 100 | 70 | 240 | 190 | 62 | - | 50 | 14 | - | 140 | 140 | 255 | 12 | 36-34,5 | |
| | NM4 40/16AE-BE-CE | 65 | 40 | 80 | 410 | 132 | 160 | 242 | 100 | 70 | 240 | 190 | 47 | - | 50 | 14 | - | 119 | 119 | 255 | 12 | 35-33-31 | |
| | NM4 40/20AE-BE | 65 | 40 | 100 | 430 | 160 | 180 | 270 | 100 | 70 | 265 | 212 | 62 | - | 50 | 14 | - | 140 | 140 | 255 | 12 | 41-40,5 | |
| | NM4 40/25BE-CE | 65 | 40 | 100 | 490 | 180 | 225 | 308 | 125 | 95 | 320 | 250 | 60 | - | 65 | 14 | - | 170 | 175 | 175 | 300 | 15 | 64-59 |
| | NM4 40/25AE | | | | 525 | | | - | | | | | | | | | | | | | 330 | | 78 |
| | NM4 50/16AE-BE | 65 | 50 | 100 | 430 | 160 | 180 | 270 | 100 | 70 | 265 | 212 | 62 | - | 50 | 14 | - | 127 | 141 | 255 | 12 | 40-39,5 | |
| | NM4 50/20CE | 65 | 50 | 100 | 440 | 160 | 200 | 270 | 100 | 70 | 265 | 212 | 62 | - | 50 | 14 | - | 140 | 153 | 310 | 14 | 44,5 | |
| | NM4 50/20AE-BE | | | | 500 | | | 288 | | | | | | | | | | | | | | | 60 |
| | NM4 50/25CE | 65 | 50 | 100 | 490 | 180 | 225 | 308 | 125 | 95 | 320 | 250 | 60 | - | 65 | 14 | - | 170 | 175 | 175 | 300 | 15 | 65,5 |
| | NM4 50/25AE-BE | | | | 525 | | | - | | | | | | | | | | | | | 330 | | 85,5-77,5 |
| | NM4 65/16BE-CE | 80 | 65 | 100 | 430 | 160 | 200 | 270 | 125 | 95 | 280 | 212 | 62 | - | 65 | 14 | - | 150 | 172 | 255 | 15 | 46-46 | |
| | NM4 65/16AE | | | | 490 | | | 288 | | | | | | | | | | | | | | 60 | 51,5 |
| | NM4 65/20BE | 80 | 65 | 100 | 500 | 180 | 225 | 308 | 125 | 95 | 320 | 250 | 60 | - | 65 | 14 | - | 170 | 155 | 175 | 310 | 18 | 58,5 |
| | NM4 65/20AE | | | | 525 | | | - | | | | | | | | | | | | | 330 | | 73,5 |
| | NM4 65/25BE | 80 | 65 | 100 | 540 | 200 | 250 | - | 160 | 120 | 360 | 280 | 60 | - | 80 | 18 | - | 170 | 190 | 345 | 15 | 97 | |
| | NM4 65/25AE | | | | 645 | | | 385 | | | | | | | | | | | | | | - | 116 |
| | NM4 65/31BE-CE | 80 | 65 | 125 | 670 | 225 | 280 | 410 | 160 | 120 | 400 | 315 | 75 | - | 80 | 18 | - | 220 | 220 | 415 | 20 | 164-153 | |
| | NM4 65/31AE | | | | 720 | | | 385 | | | | | | | | | | | | | | - | 176 |
| | NM4 80/16CE | 100 | 80 | 125 | 455 | 180 | 225 | 290 | 125 | 95 | 320 | 250 | 62 | - | 65 | 14 | - | 165 | 193 | 255 | 15 | 53 | |
| NM4 80/16AE-BE | 515 | | | | 308 | | | 60 | | | | | | | | | | | | | | 63-58 | |
| NM4 80/20CE | 100 | 80 | 125 | 535 | 180 | 250 | 308 | 125 | 95 | 345 | 280 | 60 | - | 65 | 14 | - | 170 | 170 | 320 | 15 | 72 | | |
| NM4 80/20AE-BE | | | | 560 | | | - | | | | | | | | | | | | | | - | 91-82 | |
| NM4 80/25CE | 100 | 80 | 125 | 565 | 200 | 280 | - | 160 | 120 | 400 | 315 | 60 | - | 80 | 18 | - | 165 | 191 | 210 | 335 | 20 | 102 | |
| NM4 80/25AE-BE | | | | 670 | | | 385 | | | | | | | | | | | | | | | - | 135-124 |
| NM4 80/31CE | 100 | 80 | 125 | 720 | 250 | 315 | 435 | 160 | 120 | 400 | 315 | 90 | - | 80 | 18 | - | 220 | 232 | 465 | 20 | 181 | | |
| 5 | NM4 80/315AE-BE | 100 | 80 | 125 | 850 | 260 | 315 | 466 | 435 | 395 | 314 | 254 | - | 20 | 81 | 14 | - | 220 | 232 | 210 | 6 | 250-227 | |
| | NM4 80/400CE | 125 | 80 | 125 | 865 | 270 | - | 482 | 397 | 350 | 279 | - | 25 | 84 | 14 | 270 | 216 | 6 | 216 | 6 | 336 | | |
| | NM4 80/400BE | | | | 905 | 270 | 355 | - | 520 | 435 | 350 | 279 | - | 25 | 84 | 14 | 270 | 268 | 216 | 6 | 365 | | |
| NM4 80/400AE | 970 | | | | 290 | - | 540 | 455 | 396 | 318 | - | 25 | 92 | 18 | 290 | 233 | 216 | 6 | 436 | | | | |
| 4 | NM4 100/20BE-CE | 125 | 100 | 125 | 565 | 200 | 280 | - | 160 | 120 | 360 | 280 | 60 | - | 80 | 18 | - | 165 | 180 | 212 | 330 | 20 | 99-90 |
| | NM4 100/20AE | | | | 665 | | | 385 | | | | | | | | | | | | | | | - |
| NM4 100/25BE | 125 | 100 | 140 | 685 | 225 | 280 | 410 | 160 | 120 | 400 | 315 | 75 | - | 80 | 18 | - | 205 | 233 | 415 | 20 | 143 | | |
| NM4 100/25AE | | | | 735 | | | - | | | | | | | | | | | | | | - | 152 | |
| 5 | NM4 100/315BE-CE | 125 | 100 | 140 | 865 | 260 | 315 | 466 | 435 | 395 | 314 | 254 | - | 20 | 81 | 14 | - | 230 | 250 | 210 | 6 | 261-240 | |
| | NM4 100/315AE | | | | 880 | | | 250 | | | | | | | | | | | | | | - | 313 |
| NM4 100/400CE | 125 | 100 | 140 | 920 | 290 | 355 | - | 435 | 395 | 350 | 279 | - | 20 | 84 | 14 | 270 | 268 | 280 | 221 | 6 | 368 | | |
| NM4 100/400AE-BE | | | | 980 | | | 355 | | | | | | | | | | | | | | - | 450-427 | |
| 4 | NM4 125/25DE-EE | 150 | 125 | 140 | 685 | 250 | 355 | 435 | 160 | 120 | 400 | 315 | 90 | - | 80 | 18 | - | 235 | 268 | 415 | 20 | 161-149 | |
| | NM4 125/25CE | | | | 735 | | | - | | | | | | | | | | | | | | - | 173 |
| 5 | NM4 125/250AE-BE | 150 | 125 | 140 | 865 | 260 | 355 | 466 | 435 | 395 | 314 | 254 | - | 20 | 81 | 14 | - | 235 | 268 | 210 | 6 | 242-222 | |
| | NM4 125/315CE | 150 | 125 | 140 | 880 | 270 | 355 | - | 482 | 397 | 350 | 279 | - | 25 | 84 | 14 | 270 | 247 | 278 | 216 | 6 | 331 | |
| | NM4 125/315BE | | | | 920 | | | 355 | | | | | | | | | | | | | | - | 365 |
| | NM4 125/315AE | | | | 980 | | | 355 | | | | | | | | | | | | | | - | 414 |
| | NM4 125/400CE | 150 | 125 | 140 | 980 | 300 | 400 | - | 540 | 455 | 396 | 318 | - | 25 | 92 | 18 | 290 | 280 | 305 | 233 | 6 | 459 | |
| | NM4 125/400AE-BE | | | | 1045 | | | 325 | | | | | | | | | | | | | | - | 585-550 |
| | NM4 150/315DE | 200 | 150 | 160 | 940 | 290 | 400 | - | 435 | 395 | 371 | 300 | - | 20 | 84 | 14 | 270 | 260 | 298 | 229 | 6 | 363 | |
| | NM4 150/315CE | | | | 1000 | | | 400 | | | | | | | | | | | | | | - | 372 |
| NM4 150/315AE-BE | 1000 | | | | 400 | | | - | | | | | | | | | | | | | | 485-472 | |
| NM4 150/400BE-CE | 200 | 150 | 160 | 1065 | 325 | 450 | - | 540 | 461 | 440 | 356 | - | 25 | 104 | 18 | 330 | 295 | 328 | 274 | 8 | 689-555 | | |
| NM4 150/400AE | | | | 1145 | | | 320 | | | | | | | | | | | | | | - | 713 | |

Flanges EN 1092-2



| mm | | | | | | |
|-----|-----|-----|-----|-------|----|----|
| DN | C | K | D | Holes | | g2 |
| | | | | 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 |