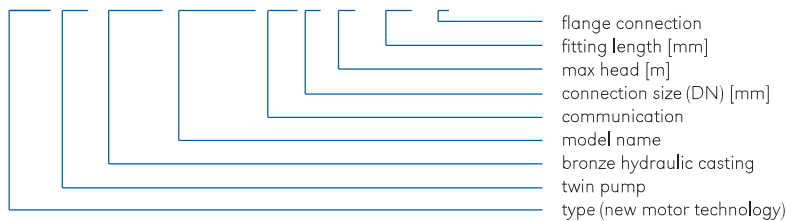


## NMT SMART



NMT (D) (SAN) SMART (C) xx/xx - 180 (F)



### Electronically controlled wet running circulating pump

For all heating systems, air conditioning, closed cooling circuits and industrial systems, used in accordance with VDI 2035 and ErP.

#### High efficient wet running pump with auto adapt function

- ECM permanent magnet technology with high energy efficiency
- LED display for control
- built-in electric protection
- easy handling and installation, low noise operation and automatic venting
- robust and compact construction for long life

#### Automatic operation

- Immediate adaptation to the system

#### Manual adjustment

- Proportional pressure, constant pressure, constant speed, night mode

#### Communication

SMART C - with NMTC communication module (option): Ethernet, Modbus RTU, analog control input 0-10V, 3 analog inputs/outputs, 1 rele output

#### Permissible mediums

Water, mixed with glycol, parameters must be checked in the mixture of water with over 20% of glycol. Pure, non-explosive liquid media free of mineral oils and solid particles. Medium temperature from - 10 °C to + 110 °C, ambient temperature with max. surroundings temperature 40 °C.

#### Technical specification

|                      |                            |
|----------------------|----------------------------|
| Q <sub>max</sub>     | up to 12 m <sup>3</sup> /h |
| H <sub>max</sub>     | up to 12 m                 |
| P                    | PN10 bar                   |
| DN                   | 25/32/40/50                |
| Pipe connection      | Rp 1/ Rp 1 1/4             |
| Installation         | flange, threaded           |
| Insulation class     | F                          |
| Degree of protection | IP 44                      |
| Voltage              | 1 - 230V, 50 Hz            |

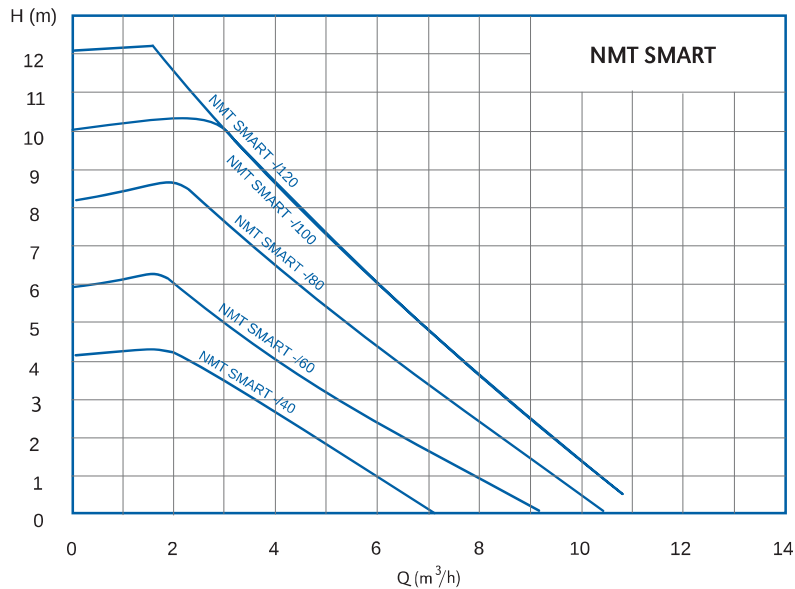
#### Minimum inlet pressure

0.05 bar <75 °C (fluid temperature)  
 0.28 bar <90 °C (fluid temperature)

#### Material

|                  |                          |
|------------------|--------------------------|
| Hydraulic casing | cast iron/bronze         |
| Impeller         | PES                      |
| Shaft            | stainless steel AISI 316 |
| Bearings         | grafit                   |
| Rotor can        | stainless steel AISI 316 |

## Performance range



### NMT SMART - threaded pumps

| Code      | Type                 | EEl    | Fitting length L [mm] | Pipe connection | P <sub>max</sub> [W] | Weight [kg] |
|-----------|----------------------|--------|-----------------------|-----------------|----------------------|-------------|
| 979523477 | NMT SMART 25/40-180  | ≤ 0,20 | 180                   | Rp 1            | 60                   | 3,25        |
| 979523480 | NMT SMART 25/60-180  | ≤ 0,20 | 180                   | Rp 1            | 90                   | 3,25        |
| 979523484 | NMT SMART 25/80-180  | ≤ 0,20 | 180                   | Rp 1            | 140                  | 3,25        |
| 979523301 | NMT SMART 25/100-180 | ≤ 0,20 | 180                   | Rp 1            | 180                  | 3,25        |
| 979523664 | NMT SMART 25/120-180 | ≤ 0,20 | 180                   | Rp 1            | 180                  | 3,25        |
| 979523478 | NMT SMART 32/40-180  | ≤ 0,20 | 180                   | Rp 1¼           | 60                   | 3,4         |
| 979523481 | NMT SMART 32/60-180  | ≤ 0,20 | 180                   | Rp 1¼           | 90                   | 3,4         |
| 979523485 | NMT SMART 32/80-180  | ≤ 0,20 | 180                   | Rp 1¼           | 140                  | 3,4         |
| 979523216 | NMT SMART 32/100-180 | ≤ 0,20 | 180                   | Rp 1¼           | 180                  | 3,4         |
| 979523771 | NMT SMART 32/120-180 | ≤ 0,20 | 180                   | Rp 1¼           | 180                  | 3,4         |

### NMT SMART C - threaded pumps with communication module

| Code      | Type                   | EEl    | Fitting length L [mm] | Pipe connection | P <sub>max</sub> [W] | Weight [kg] |
|-----------|------------------------|--------|-----------------------|-----------------|----------------------|-------------|
| 979523488 | NMT SMART C 25/40-180  | ≤ 0,20 | 180                   | Rp 1            | 60                   | 3,5         |
| 979523491 | NMT SMART C 25/60-180  | ≤ 0,20 | 180                   | Rp 1            | 90                   | 3,5         |
| 979523495 | NMT SMART C 25/80-180  | ≤ 0,20 | 180                   | Rp 1            | 140                  | 3,5         |
| 979523371 | NMT SMART C 25/100-180 | ≤ 0,20 | 180                   | Rp 1            | 180                  | 3,5         |
| 979524538 | NMT SMART C 25/120-180 | ≤ 0,20 | 180                   | Rp 1            | 180                  | 3,5         |
| 979523489 | NMT SMART C 32/40-180  | ≤ 0,20 | 180                   | Rp 1¼           | 60                   | 3,65        |
| 979523492 | NMT SMART C 32/60-180  | ≤ 0,20 | 180                   | Rp 1¼           | 90                   | 3,65        |
| 979523496 | NMT SMART C 32/80-180  | ≤ 0,20 | 180                   | Rp 1¼           | 140                  | 3,65        |
| 979523367 | NMT SMART C 32/100-180 | ≤ 0,20 | 180                   | Rp 1¼           | 180                  | 3,65        |
| 979524539 | NMT SMART C 32/120-180 | ≤ 0,20 | 180                   | Rp 1¼           | 180                  | 3,65        |

### NMTD SMART - threaded pumps, twin version

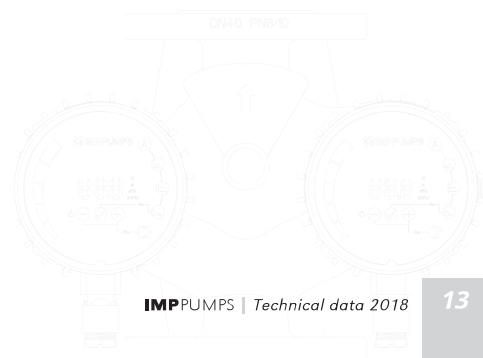
| Code      | Type                  | EEI    | Fitting length L [mm] | Pipe connection | Pmax [W] | Weight [kg] |
|-----------|-----------------------|--------|-----------------------|-----------------|----------|-------------|
| 979523546 | NMTD SMART 32/40-180  | ≤ 0,21 | 180                   | Rp 1¼           | 2x60     | 7,75        |
| 979523547 | NMTD SMART 32/60-180  | ≤ 0,21 | 180                   | Rp 1¼           | 2x90     | 7,75        |
| 979523548 | NMTD SMART 32/80-180  | ≤ 0,21 | 180                   | Rp 1¼           | 2x140    | 7,75        |
| 979523549 | NMTD SMART 32/100-180 | ≤ 0,21 | 180                   | Rp 1¼           | 2x180    | 7,75        |
| 979524592 | NMTD SMART 32/120-180 | ≤ 0,21 | 180                   | Rp 1¼           | 2x180    | 7,75        |

### NMTD SMART C - threaded pumps, twin version with communication module

| Code      | Type                    | EEI    | Fitting length L [mm] | Pipe connection | Pmax [W] | Weight [kg] |
|-----------|-------------------------|--------|-----------------------|-----------------|----------|-------------|
| 979523554 | NMTD SMART C 32/40-180  | ≤ 0,21 | 180                   | Rp 1¼           | 2x60     | 8           |
| 979523555 | NMTD SMART C 32/60-180  | ≤ 0,21 | 180                   | Rp 1¼           | 2x90     | 8           |
| 979523556 | NMTD SMART C 32/80-180  | ≤ 0,21 | 180                   | Rp 1¼           | 2x140    | 8           |
| 979523557 | NMTD SMART C 32/100-180 | ≤ 0,21 | 180                   | Rp 1¼           | 2x180    | 8           |
| 979524593 | NMTD SMART C 32/120-180 | ≤ 0,21 | 180                   | Rp 1¼           | 2x180    | 8           |

### NMT SMART F - flanged pumps

| Code      | Type                  | EEI    | Fitting length L [mm] | Pipe connection | Pmax [W] | Weight [kg] |
|-----------|-----------------------|--------|-----------------------|-----------------|----------|-------------|
| 979523479 | NMT SMART 32/40 F220  | ≤ 0,20 | 220                   | DN32            | 60       | 6,45        |
| 979523482 | NMT SMART 32/60 F220  | ≤ 0,20 | 220                   | DN32            | 90       | 6,45        |
| 979523486 | NMT SMART 32/80 F220  | ≤ 0,20 | 220                   | DN32            | 140      | 6,45        |
| 979523284 | NMT SMART 32/100 F220 | ≤ 0,20 | 220                   | DN32            | 180      | 6,45        |
| 979523667 | NMT SMART 32/120 F220 | ≤ 0,20 | 220                   | DN32            | 180      | 6,45        |
| 979523514 | NMT SMART 40/40 F220  | ≤ 0,20 | 220                   | DN40            | 60       | 7,65        |
| 979523483 | NMT SMART 40/60 F220  | ≤ 0,20 | 220                   | DN40            | 90       | 7,65        |
| 979523487 | NMT SMART 40/80 F220  | ≤ 0,20 | 220                   | DN40            | 140      | 7,65        |
| 979523285 | NMT SMART 40/100 F220 | ≤ 0,20 | 220                   | DN40            | 180      | 7,65        |
| 979524541 | NMT SMART 40/120 F220 | ≤ 0,20 | 220                   | DN40            | 180      | 7,65        |
| 979523286 | NMT SMART 50/100 F240 | ≤ 0,20 | 240                   | DN50            | 180      | 9,2         |
| 979524542 | NMT SMART 50/120 F240 | ≤ 0,20 | 240                   | DN50            | 180      | 9,2         |



## NMT SMART C F - flanged pumps with communication module

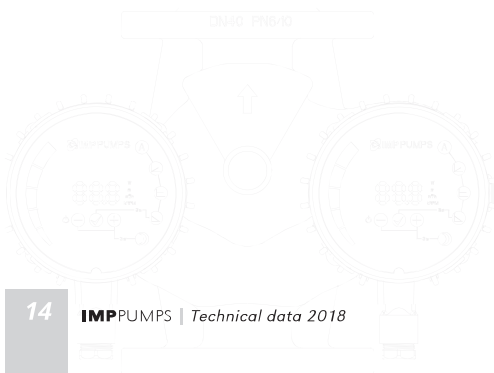
| Code      | Type                    | EEl    | Fitting length L [mm] | Pipe connection | Pmax [W] | Weight [kg] |
|-----------|-------------------------|--------|-----------------------|-----------------|----------|-------------|
| 979523490 | NMT SMART C 32/40 F220  | ≤ 0,20 | 220                   | DN32            | 60       | 6,7         |
| 979523493 | NMT SMART C 32/60 F220  | ≤ 0,20 | 220                   | DN32            | 90       | 6,7         |
| 979523497 | NMT SMART C 32/80 F220  | ≤ 0,20 | 220                   | DN32            | 140      | 6,7         |
| 979523368 | NMT SMART C 32/100 F220 | ≤ 0,20 | 220                   | DN32            | 180      | 6,7         |
| 979524540 | NMT SMART C 32/120 F220 | ≤ 0,20 | 220                   | DN32            | 180      | 6,7         |
| 979523515 | NMT SMART C 40/40 F220  | ≤ 0,20 | 220                   | DN40            | 60       | 7,9         |
| 979523494 | NMT SMART C 40/60 F220  | ≤ 0,20 | 220                   | DN40            | 90       | 7,9         |
| 979523498 | NMT SMART C 40/80 F220  | ≤ 0,20 | 220                   | DN40            | 140      | 7,9         |
| 979523369 | NMT SMART C 40/100 F220 | ≤ 0,20 | 220                   | DN40            | 180      | 7,9         |
| 979524543 | NMT SMART C 40/120 F220 | ≤ 0,20 | 220                   | DN40            | 180      | 7,9         |
| 979523370 | NMT SMART C 50/100 F240 | ≤ 0,20 | 240                   | DN50            | 180      | 9,45        |
| 979524544 | NMT SMART C 50/120 F240 | ≤ 0,20 | 240                   | DN50            | 180      | 9,45        |

## NMTD SMART F - flanged pumps, twin version

| Code      | Type                   | EEl    | Fitting length L [mm] | Pipe connection | Pmax [W] | Weight [kg] |
|-----------|------------------------|--------|-----------------------|-----------------|----------|-------------|
| 979523550 | NMTD SMART 40/40 F220  | ≤ 0,21 | 220                   | DN40            | 2x60     | 11,25       |
| 979523551 | NMTD SMART 40/60 F220  | ≤ 0,21 | 220                   | DN40            | 2x90     | 11,25       |
| 979523552 | NMTD SMART 40/80 F220  | ≤ 0,21 | 220                   | DN40            | 2x140    | 11,25       |
| 979523553 | NMTD SMART 40/100 F220 | ≤ 0,21 | 220                   | DN40            | 2x180    | 11,25       |
| 979524545 | NMTD SMART 40/120 F220 | ≤ 0,21 | 220                   | DN40            | 2x180    | 11,25       |

## NMTD SMART C F - flanged pumps, twin version with communication module

| Code      | Type                     | EEl    | Fitting length L [mm] | Pipe connection | Pmax [W] | Weight [kg] |
|-----------|--------------------------|--------|-----------------------|-----------------|----------|-------------|
| 979523558 | NMTD SMART C 40/40 F220  | ≤ 0,21 | 220                   | DN40            | 2x60     | 11,75       |
| 979523559 | NMTD SMART C 40/60 F220  | ≤ 0,21 | 220                   | DN40            | 2x90     | 11,75       |
| 979523560 | NMTD SMART C 40/80 F220  | ≤ 0,21 | 220                   | DN40            | 2x140    | 11,75       |
| 979523561 | NMTD SMART C 40/100 F220 | ≤ 0,21 | 220                   | DN40            | 2x180    | 11,75       |
| 979524546 | NMTD SMART C 40/120 F220 | ≤ 0,21 | 220                   | DN40            | 2x180    | 11,75       |



## NMT SAN SMART - threaded bronze hydraulic pumps

| Code      | Type                     | EEl    | Fitting length L [mm] | Pipe connection | Pmax [W] | Weight [kg] |
|-----------|--------------------------|--------|-----------------------|-----------------|----------|-------------|
| 979524527 | NMT SAN SMART 25/40-180  | ≤ 0,20 | 180                   | Rp 1            | 60       | 3,73        |
| 979524528 | NMT SAN SMART 25/60-180  | ≤ 0,20 | 180                   | Rp 1            | 90       | 3,73        |
| 979524529 | NMT SAN SMART 25/80-180  | ≤ 0,20 | 180                   | Rp 1            | 140      | 3,73        |
| 979524530 | NMT SAN SMART 25/100-180 | ≤ 0,20 | 180                   | Rp 1            | 180      | 3,73        |
| 979524531 | NMT SAN SMART 25/120-180 | ≤ 0,20 | 180                   | Rp 1            | 180      | 3,73        |
| 979524479 | NMT SAN SMART 32/40-180  | ≤ 0,20 | 180                   | Rp 1¼           | 60       | 3,75        |
| 979524480 | NMT SAN SMART 32/60-180  | ≤ 0,20 | 180                   | Rp 1¼           | 90       | 3,75        |
| 979524481 | NMT SAN SMART 32/80-180  | ≤ 0,20 | 180                   | Rp 1¼           | 140      | 3,75        |
| 979524482 | NMT SAN SMART 32/100-180 | ≤ 0,20 | 180                   | Rp 1¼           | 180      | 3,75        |
| 979524483 | NMT SAN SMART 32/120-180 | ≤ 0,20 | 180                   | Rp 1¼           | 180      | 3,75        |

## NMT SAN SMART C - threaded bronze hydraulic pumps with communication module

| Code      | Type                       | EEl    | Fitting length L [mm] | Pipe connection | Pmax [W] | Weight [kg] |
|-----------|----------------------------|--------|-----------------------|-----------------|----------|-------------|
| 979524532 | NMT SAN SMART C 25/40-180  | ≤ 0,20 | 180                   | Rp 1            | 60       | 3,98        |
| 979524533 | NMT SAN SMART C 25/60-180  | ≤ 0,20 | 180                   | Rp 1            | 90       | 3,98        |
| 979524534 | NMT SAN SMART C 25/80-180  | ≤ 0,20 | 180                   | Rp 1            | 140      | 3,98        |
| 979524535 | NMT SAN SMART C 25/100-180 | ≤ 0,20 | 180                   | Rp 1            | 180      | 3,98        |
| 979524536 | NMT SAN SMART C 25/120-180 | ≤ 0,20 | 180                   | Rp 1            | 180      | 3,98        |
| 979524484 | NMT SAN SMART C 32/40-180  | ≤ 0,20 | 180                   | Rp 1¼           | 60       | 4           |
| 979524485 | NMT SAN SMART C 32/60-180  | ≤ 0,20 | 180                   | Rp 1¼           | 90       | 4           |
| 979524486 | NMT SAN SMART C 32/80-180  | ≤ 0,20 | 180                   | Rp 1¼           | 140      | 4           |
| 979524487 | NMT SAN SMART C 32/100-180 | ≤ 0,20 | 180                   | Rp 1¼           | 180      | 4           |
| 979524488 | NMT SAN SMART C 32/120-180 | ≤ 0,20 | 180                   | Rp 1¼           | 180      | 4           |

### Installation

After installing the pump, the motor shaft have to remain in horizontal position.

