



ECO HIGH-EFFICIENCY REGULATED THREADED PUMPS

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable pressure control and constant speed. For use in water system according to requirements of VDI 2035.

APPLICATIONS FOR

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems.
The implementation bronze casing SAN for the usage in drinking water circulation systems.

OPERATION

Δp -Proportional pressure control

After selecting level pump recognizes the lowest resistance of the system and automatically adjusts its own strain.

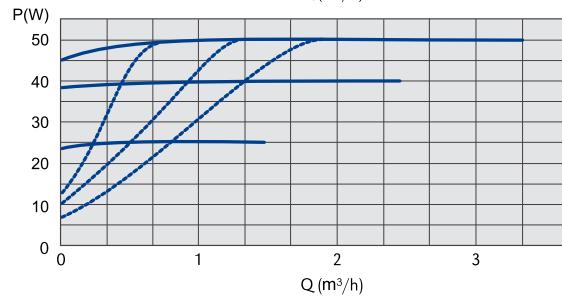
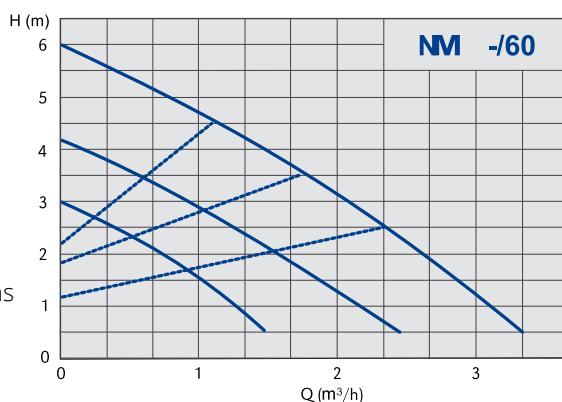
Δp -Constant speed

After selection pump works in three different speeds

PRODUCT DESCRIPTION

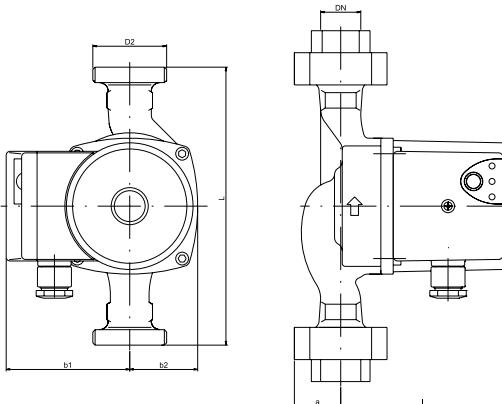
- High efficiency ECM technology
- Energy savings
- Proportional pressure control
- Constant speed
- Easy handling and installation
- Robust and compact construction for long life
- Automatic venting
- Low noise operation
- Single body, which allows a variety of mounting positions
- Possibility of housing with cataphoretic
- The possibility of an analog input signal 0-10 V

| Pump component | Material |
|------------------|-----------------|
| Housing | Cast iron |
| Impeller | Polyamid |
| Shaft | Ceramics |
| Bearings | Ceramics |
| Ventricular wall | Stainless steel |
| Rotor can | Stainless steel |



| NMT | Pipe connection | DN | Fitting length | N. Pressure | Weight | Code |
|------------------|-----------------|----|----------------|-------------|--------|-----------|
| NM 15/60-130 | Rp ½ | 15 | 130 mm | PN 10 bar | 1,9 kg | 979522029 |
| NM 20/60-130 | Rp ¾ | 20 | 130 mm | PN 10 bar | 2,0 kg | 979522026 |
| NM 25/60-130 | Rp 1 | 25 | 130 mm | PN 10 bar | 2,1 kg | 979522027 |
| NM 20/60-180 | Rp ¾ | 20 | 180 mm | PN 10 bar | 2,3 kg | 979522046 |
| NM 25/60-180 | Rp 1 | 25 | 180 mm | PN 10 bar | 2,4 kg | 979522047 |
| NM 32/60-180 | Rp 1 ¼ | 32 | 180 mm | PN 10 bar | 2,5 kg | 979522048 |
| NM SAN 20/60-130 | Rp ¾ | 20 | 130 mm | PN 10 bar | 2,1 kg | 979523135 |
| NM SAN 25/60-130 | Rp 1 | 25 | 130 mm | PN 10 bar | 2,2 kg | 979523136 |
| NM ER 15/60-130 | Rp ½ | 15 | 130 mm | PN 10 bar | 1,9 kg | 979523149 |
| NM ER 20/60-130 | Rp ¾ | 20 | 130 mm | PN 10 bar | 2,0 kg | 979523150 |
| NM ER 25/60-130 | Rp 1 | 25 | 130 mm | PN 10 bar | 2,1 kg | 979523151 |
| NM ER 20/60-180 | Rp ¾ | 20 | 180 mm | PN 10 bar | 2,3 kg | 979523152 |
| NM ER 25/60-180 | Rp 1 | 25 | 180 mm | PN 10 bar | 2,4 kg | 979523153 |
| NM ER 32/60-180 | Rp 1 ¼ | 32 | 180 mm | PN 10 bar | 2,5 kg | 979523154 |

| Dimensions | L | DN | D2 | b1 | b2 | I | a |
|------------|---------|-------------|-----------------------|----|----|-----|----------|
| NM 60 | 130/180 | 15/20/25/32 | 1" / 5/4" / 6/4" / 2" | 80 | 48 | 108 | 27/29/32 |



TECHNICAL DATA

Flow Q up to 3,7 m³/h
 Pressure H up to 6 m
 Power 7 - 50 Watt
 Nominal pressure 10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from +5 °C to +95 °C with max. surroundings temperature up to +40 °C

Minimum inlet pressure

0,05 bar < 75 °C Temperature of medium
 0,28 bar < 90 °C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,22
- Built-in motor protection
- Control Δp or constant speed
- Degree of protection: IP 44
- Insulation class F
- Optional analog input signal 0 - 10 V



ECO HIGH-EFFICIENCY REGULATED

NM

THREADED PUMPS NM -/80

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable pressure control and constant speed. For use in water system according to requirements of VDI 2035.

APPLICATIONS FOR

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OPERATION

Δp -Proportional pressure control

After selecting level pump recognizes the lowest resistance of the system and automatically adjusts its own strain.

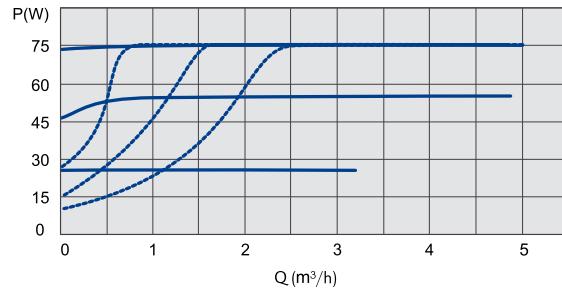
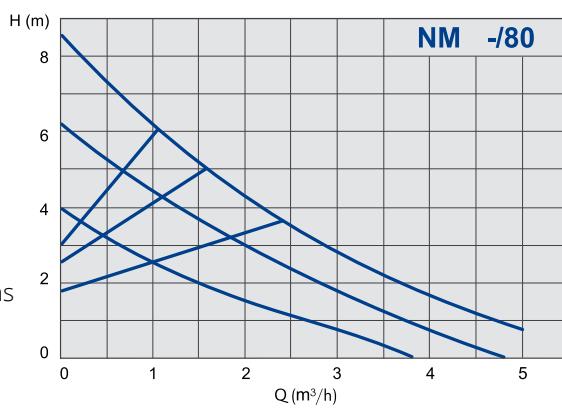
Δp -Constant speed

After selection pump works in three different speeds

PRODUCT DESCRIPTION

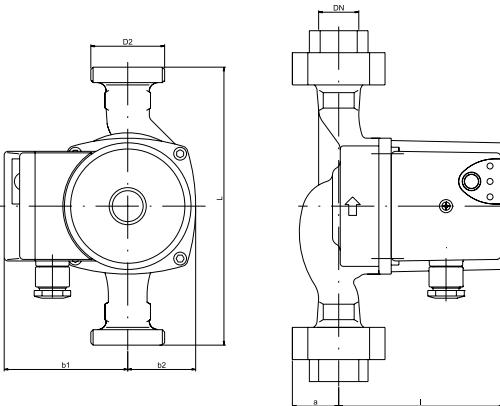
- High efficiency ECM technology
- Energy savings
- Proportional pressure control
- Constant speed
- Easy handling and installation
- Robust and compact construction for long life
- Automatic venting
- Low noise operation
- Single body, which allows a variety of mounting positions
- Possibility of housing with cataphoretic
- The possibility of an analog input signal 0-10 V

| Pump component | Material |
|------------------|-----------------|
| Housing | Cast iron |
| Impeller | Polyamid |
| Shaft | Ceramics |
| Bearings | Ceramics |
| Ventricular wall | Stainless steel |
| Rotor can | Stainless steel |



| NMT | Pipe connection | DN | Fitting length | N. Pressure | Weight | Code |
|------------------|-----------------|----|----------------|-------------|--------|-----------|
| NM 15/80-130 | Rp ½ | 15 | 130 mm | PN 10 bar | 1,9 kg | 979522969 |
| NM 20/80-130 | Rp ¾ | 20 | 130 mm | PN 10 bar | 2,0 kg | 979522970 |
| NM 25/80-130 | Rp 1 | 25 | 130 mm | PN 10 bar | 2,1 kg | 979522971 |
| NM 20/80-180 | Rp ¾ | 20 | 180 mm | PN 10 bar | 2,3 kg | 979522972 |
| NM 25/80-180 | Rp 1 | 25 | 180 mm | PN 10 bar | 2,4 kg | 979522973 |
| NM 32/80-180 | Rp 1 ¼ | 32 | 180 mm | PN 10 bar | 2,5 kg | 979522974 |
| NM SAN 20/80-130 | Rp ¾ | 20 | 130 mm | PN 10 bar | 2,1 kg | 979523137 |
| NM SAN 25/80-130 | Rp 1 | 25 | 130 mm | PN 10 bar | 2,2 kg | 979523138 |
| NM ER 15/80-130 | Rp ½ | 15 | 130 mm | PN 10 bar | 1,9 kg | 979523155 |
| NM ER 20/80-130 | Rp ¾ | 20 | 130 mm | PN 10 bar | 2,0 kg | 979523156 |
| NM ER 25/80-130 | Rp 1 | 25 | 130 mm | PN 10 bar | 2,1 kg | 979523157 |
| NM ER 20/80-180 | Rp ¾ | 20 | 180 mm | PN 10 bar | 2,3 kg | 979523158 |
| NM ER 25/80-180 | Rp 1 | 25 | 180 mm | PN 10 bar | 2,4 kg | 979523159 |
| NM ER 32/80-180 | Rp 1 ¼ | 32 | 180 mm | PN 10 bar | 2,5 kg | 979523160 |

| Dimensions | L | DN | D2 | b1 | b2 | I | a |
|------------|---------|-------------|----------------|----|----|-----|----------|
| NM 80 | 130/180 | 15/20/25/32 | 1"/5/4"/6/4/2" | 80 | 48 | 108 | 27/29/32 |



TECHNICAL DATA

Flow Q up to 4,5 m³/h
 Pressure H up to 8 m
 Power 7 - 75 Watt
 Nominal pressure 10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from +5 °C to +95 °C with max. surroundings temperature up to +40 °C

Minimum inlet pressure

0,05 bar < 75 °C Temperature of medium
 0,28 bar < 90 °C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,24
- Built-in motor protection
- Control Δp or constant speed
- Degree of protection: IP 44
- Insulation class F
- Optional analog input signal 0 - 10 V



ECO HIGH-EFFICIENCY REGULATED THREADED PUMPS NM -/40

NM

PERFORMANCE

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APPLICATIONS FOR

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OPERATION

Δp -Proportional pressure control

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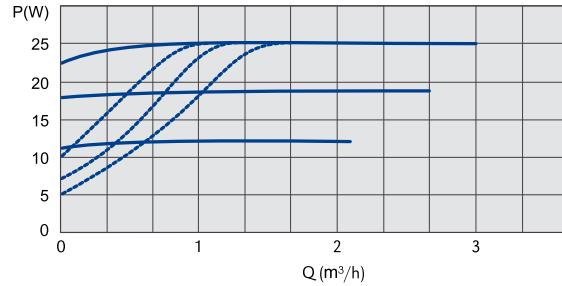
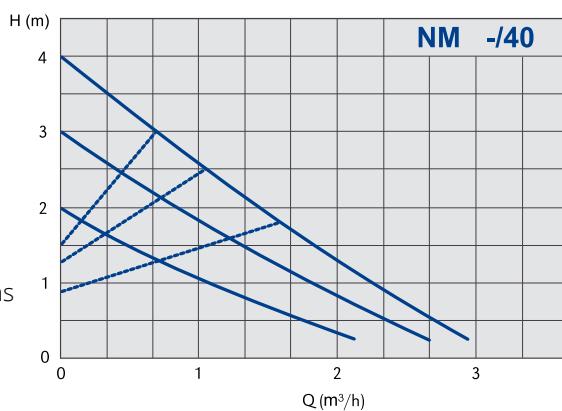
Δp -Constant speed

After selection pump works in three different speeds

PRODUCT DESCRIPTION

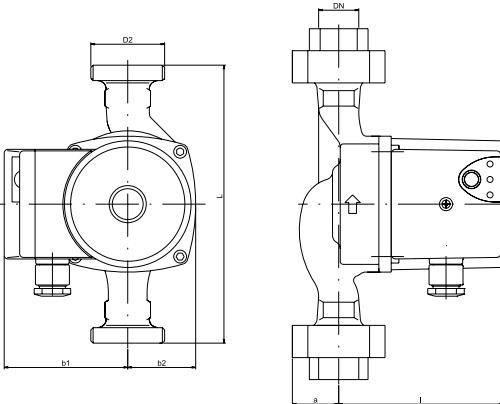
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- Constant speed
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- Single body, which allows a variety of mounting positions
- Possibility of housing with cataphoretic
- The possibility of an analog input signal 0-10 V

| Pump component | Material |
|------------------|-----------------|
| Housing | Cast iron |
| Impeller | Polyamid |
| Shaft | Ceramics |
| Rotor can | Ceramics |
| Ventricular wall | Stainless steel |
| Rotor can | Stainless steel |



| NMT | Pipe connection | DN | Fitting length | N. Pressure | Weight | Code | Euro |
|------------------|-----------------|----|----------------|-------------|--------|------|------|
| NM 15/40-130 | Rp ½ | 15 | 130 mm | PN 10 bar | 1,9 kg | | |
| NM 20/40-130 | Rp ¾ | 20 | 130 mm | PN 10 bar | 2,0 kg | | |
| NM 25/40-130 | Rp 1 | 25 | 130 mm | PN 10 bar | 2,1 kg | | |
| NM 20/40-180 | Rp ¾ | 20 | 180 mm | PN 10 bar | 2,3 kg | | |
| NM 25/40-180 | Rp 1 | 25 | 180 mm | PN 10 bar | 2,4 kg | | |
| NM 32/40-180 | Rp 1 ¼ | 32 | 180 mm | PN 10 bar | 2,5 kg | | |
| NM SAN 20/40-130 | Rp ¾ | 20 | 130 mm | PN 10 bar | 2,1 kg | | |
| NM SAN 25/40-130 | Rp 1 | 25 | 130 mm | PN 10 bar | 2,2 kg | | |
| NM ER 15/40-130 | Rp ½ | 15 | 130 mm | PN 10 bar | 1,9 kg | | |
| NM ER 20/40-130 | Rp ¾ | 20 | 130 mm | PN 10 bar | 2,0 kg | | |
| NM ER 25/40-130 | Rp 1 | 25 | 130 mm | PN 10 bar | 2,1 kg | | |
| NM ER 20/40-180 | Rp ¾ | 20 | 180 mm | PN 10 bar | 2,3 kg | | |
| NM ER 25/40-180 | Rp 1 | 25 | 180 mm | PN 10 bar | 2,4 kg | | |
| NM ER 32/40-180 | Rp 1 ¼ | 32 | 180 mm | PN 10 bar | 2,5 kg | | |

| Dimensions | L | DN | D2 | b1 | b2 | I | a |
|------------|---------|-------------|-----------------------|----|----|-----|----------|
| NM 40 | 130/180 | 15/20/25/32 | 1" / 5/4" / 6/4" / 2" | 80 | 48 | 108 | 27/29/32 |



TECHNICAL DATA

Flow Q up to 2,6 m³/h
 Pressure H up to 4 m
 Power 5 - 25 Watt
 Nominal pressure 10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from +5 °C to +95 °C with max. surroundings temperature up to +40 °C

Minimum inlet pressure

0,05 bar < 75 °C Temperature of medium
 0,28 bar < 90 °C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,20
- Built-in motor protection
- Control Δp or constant speed
- Degree of protection: IP 44
- Insulation class F
- Optional analog input signal 0 - 10 V