

# NETZSCH

## NEMO® BT Immersible Pumps with integral mounting plate

Wide range of products  
and applications

NEMO® Immersible Pumps are used to empty barrels, containers, tanks, sedimentation tanks, pits etc. and where space is restricted, where there is a risk of cavitation or where there is very low NPSHa. These pumps are also used to empty containers holding materials that are hazardous to water or the environment for which standard emptying via a flange on the bottom of the container is not permitted. These pumps are a great choice for products with a very high viscosity as there is no need for a suction pipeline. The conveying elements (rotor and stator) are fully immersed in the product.

### NEMO® BT Immersible Pump Features

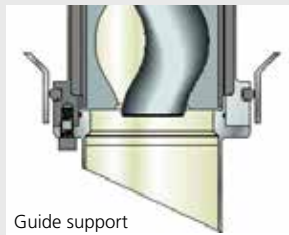
- Integral mounting plate and horizontal discharge connection above the mounting plate
- Immersion depth up to 33 ft / 10 m depending on pump size and speed
- Compact design with vertical discharge connection through the mounting plate is available.
- Immersion depth can be modified: extending the pump housing, adding a suction pipe or in combination of both.
- Various designs / immersion variations are available
- Immersion depth can be adjusted as needed, per application
- Self-centering, support guides are available to secure the pump to the bottom or to the wall of the tank that secure the pump suction without clamps or bolts.
- Compact design with directly flanged drive
- Four rotor/stator geometries for optimum performance
- Available in heated double jacket design

### Your Benefits

- Flow rates up to 616 gpm / 140 m<sup>3</sup>/h
- Pressures up to 360 psi / 24 bar
- Easy removal of the pump from a full tank

### Accessories

- Bottom Guide Support
- Wall Guide Support
- Easy to remove from a full tank because the guide units are self-centering and secure the pump



Guide support

### Applications

- Closed pits, tanks, and containers where there is a possibility to vertically flange mount the pump to the tank lid
- Product is piped to the outside vertically through the lid, via 90-degree elbow or horizontally through the tank wall

### Additional information

[NEMO Progressing Cavity Pump Brochure NPA - 305](#)  
[Business Field Environmental & Energy Brochure NPA - 307](#)



## NEMO® BT Immersible Pumps with integral mounting plate

Flow and Pressure Capabilities and General Dimensions

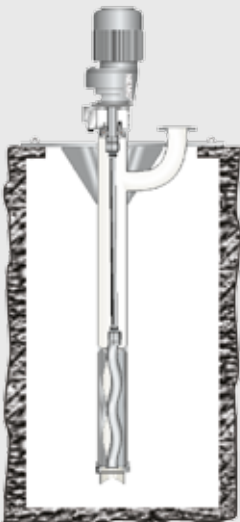
### NEMO® BT Pump



- Discharge flange above the mounting plate
- Includes bottom guide support



- Discharge flange above the mounting plate
- Includes wall-mounted guide support



- Compact design
- Minimized dead space
- Discharge flange integrated or through the mounting plate
- Bottom or wall mounted guide support is available (not shown)



- Compact design
- Minimized dead space
- Discharge flange below the mounting plate
- Bottom or wall mounted guide support is available (not shown)

### NEMO® BY Pumps

| Pump Models            | Flow Rate<br>(GPM/100 rpm) |        | Max Particle<br>Size<br>(inches / mm) | Max Solids Size<br>(inches / mm) |
|------------------------|----------------------------|--------|---------------------------------------|----------------------------------|
|                        | 02S                        | 01L    |                                       |                                  |
| NM015 BT 02S12 / 01L06 | 0.26                       | 0.50   | .08 / 2.0                             | .35 / 9.0                        |
| NM021 BT 02S12 / 01L06 | 0.73                       | 1.42   | .12 / 3.0                             | .47 / 12.0                       |
| NM031 BT 02S12 / 01L06 | 2.06                       | 4.06   | .18 / 4.5                             | .71 / 18.0                       |
| NM038 BT 02S12 / 01L06 | 5.78                       | 11.39  | .28 / 7.0                             | 1.1 / 28.0                       |
| NM045 BT 02S14 / 01L07 | 9.71                       | 19.42  | .33 / 8.5                             | 1.38 / 35.0                      |
| NM053 BT 02S14 / 01L07 | 16.27                      | 32.54  | .40 / 10.0                            | 1.61 / 41.0                      |
| NM063 BT 02S14 / 01L07 | 27.44                      | 54.88  | .50 / 12.5                            | 2.0 / 50.0                       |
| NM076 BT 02S14 / 01L07 | 46.01                      | 92.02  | .60 / 15.0                            | 2.4 / 61.0                       |
| NM090 BT 02S14 / 01L07 | 77.27                      | 154.55 | .71 / 18.0                            | 2.9 / 73.0                       |
| NM105 BT 02S14 / 01L07 | 129.55                     | 259.10 | .83 / 21.0                            | 3.31 / 84.0                      |
| NM125 BT 02S14 / 01L07 | 217.85                     | 435.89 | 1 / 25                                | 3.93 / 100                       |
| NM148 BT 02S14 / 01L07 | 365.71                     | 731.42 | 1.14 / 29                             | 4.65 / 118                       |
| NM180 BT 01L07         | -                          | 1103   | 1.42 / 36                             | 5.66 / 144                       |

### Options

- Range of shaft sealing systems planned in accordance with API 682; seal sizes in accordance with API 610
- Systems for monitoring conveying pressure
- Dry running protection units
- Safety valves
- Electrical control systems
- Bypass lines
- Application-specific baseplates
- Wide variety of drive systems

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# NETZSCH

## NEMO® BT Immersible Pumps with Suspension Bracket

Wide range of products and applications

NEMO® Immersible Pumps are used to empty barrels, containers, tanks, sedimentation tanks, pits etc. and where space is restricted, where there is a risk of cavitation or where there is very low NPSHa. These pumps are also used to empty containers holding materials that are hazardous to water or the environment for which standard emptying via a flange on the bottom of the container is not permitted. These pumps are a great choice for products with a very high viscosity as there is no need for a suction pipeline. The conveying elements (rotor and stator) are fully immersed in the product.

### NEMO® BT Immersible Pump Features

- Suspension bracket for crane suspension
- Immersion depth up to 15 ft / 5 m
- Various designs/ immersion variations are available, 3 standard lengths per pump size (A, B, C); special designs up to 33 ft / 10 m
- Immersion depth is adjusted as needed, per application
- Compact design with directly flanged drive
- Four rotor/stator geometries for optimum performance
- Immersion depth up to 33 ft / 10 m – tube can be modified by extending the pump housing, by adding suction pipe or in combination of the two
- Optional quick disconnect above the discharge port to pull the entire housing/stator/suction for easy cleaning anytime

### Your Benefits

- Capacity up to 616 gpm / 140 m<sup>3</sup>/h
- Pressures up to 360 psi / 24 bar
- Immersion depth is adjusted per individual application

### Applications

- To empty open barrels, tanks, containers, pits, etc.

### Additional information

[NEMO Progressing Cavity Pump Brochure NPA - 305](#)  
[Business Field Environmental & Energy Brochure NPA - 307](#)



## NEMO® BT Immersible Pumps with Suspension Bracket

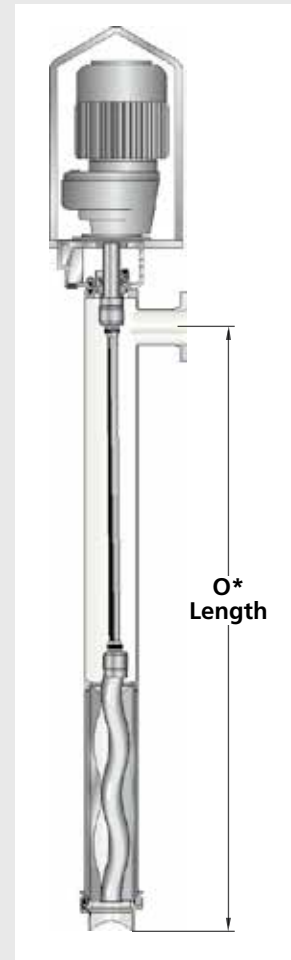
Flow and Pressure Capabilities and General Dimensions

### NEMO® BT Pump

| Pump Models            | Flow Rate<br>(GPM/100 rpm) |        | Max Particle<br>Size<br>(inches / mm) | Max Solids<br>Size<br>(inches / mm) | Length O*<br>(inches / mm) |              |              |
|------------------------|----------------------------|--------|---------------------------------------|-------------------------------------|----------------------------|--------------|--------------|
|                        | 02S                        | 01L    |                                       |                                     | A                          | B            | C            |
| NM015 BT 02S12 / 01L06 | 0.26                       | 0.50   | .08 / 2.0                             | .35 / 9.0                           | 13 / 330                   | 26 / 660     | 39 / 990     |
| NM021 BT 02S12 / 01L06 | 0.73                       | 1.42   | .12 / 3.0                             | .47 / 12.0                          | 15.7 / 400                 | 31.5 / 800   | 47.2 / 1200  |
| NM031 BT 02S12 / 01L06 | 2.06                       | 4.06   | .18 / 4.5                             | .71 / 18.0                          | 19.7 / 500                 | 39.4 / 1000  | 59.1 / 1500  |
| NM038 BT 02S12 / 01L06 | 5.78                       | 11.39  | .28 / 7.0                             | 1.1 / 28.0                          | 29.5 / 750                 | 59.1 / 1500  | 88.6 / 2250  |
| NM045 BT 02S14 / 01L07 | 9.71                       | 19.42  | .33 / 8.5                             | 1.38 / 35.0                         | 35.4 / 900                 | 70.9 / 1800  | 106.3 / 2700 |
| NM053 BT 02S14 / 01L07 | 16.27                      | 32.54  | .40 / 10.0                            | 1.61 / 41.0                         | 43.3 / 1100                | 86.6 / 2200  | 129.9 / 3300 |
| NM063 BT 02S14 / 01L07 | 27.44                      | 54.88  | .50 / 12.5                            | 2.0 / 50.0                          | 49.2 / 1250                | 98.4 / 2500  | 147.6 / 3750 |
| NM076 BT 02S14 / 01L07 | 46.01                      | 92.02  | .60 / 15.0                            | 2.4 / 61.0                          | 59.1 / 1500                | 118.1 / 3000 | 177.2 / 4500 |
| NM090 BT 02S14 / 01L07 | 77.27                      | 154.55 | .71 / 18.0                            | 2.9 / 73.0                          | 66.9 / 1700                | 133.9 / 3400 | 200.8 / 5100 |
| NM105 BT 02S14 / 01L07 | 129.55                     | 259.10 | .83 / 21.0                            | 3.31 / 84.0                         | 82.7 / 2100                | 165.4 / 4200 | 248.0 / 6300 |
| NM125 BT 02S14 / 01L07 | 217.85                     | 435.89 | 1.0 / 25.0                            | 3.38 / 100.0                        | 102.4 / 2600               | 204.7 / 5200 | 295.3 / 7500 |

#### Options

- Assortment of shaft sealing systems planned in accordance with API 682; seal sizes in accordance with API 610
- Systems for monitoring conveying pressure
- Dry running protection units
- Safety valves
- Electrical control systems
- Application-specific baseplates
- Wide variety of drive systems
- Quick disconnect above the discharge port



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