**General**

**Pump**
BN-type motor pump units are normal-priming, single-stage, plastic centrifugal pumps in block design with horizontal axis. Their dimensions and flow rates mainly correspond to DIN/EN 22858.

The pumps of this series were developed to meet the requirements of the chemical industry and are therefore especially suited to pump pure or solid matter containing, acid or alkaline, low-viscosity liquids.

As the materials getting in contact with the pumped medium are physiologically harmless, the pumps can also be used in the food industry.

The extended shaft of the drive motors directly carries the impeller. The pump head is flanged to the drive motor using an intermediate piece.

---

**Position of connections, flanges**
The suction connection is positioned axially, the pressure flange radially in upward direction. As a standard the suction and pressure connections are fitted with flanges according to DIN 2501/PN 10.

**Shaft seals**
The shafts are sealed by means of maintenance-free mechanical seals. Depending on the operating conditions, internal, single-acting or double-acting versions are used. Double-acting mechanical seals require a sealing liquid.

Sliding materials in silicon carbide (SiC), bellows and secondary seals of EPDM or FPM, metallic parts of stainless steel (1.4571) or Hastelloy C-4 (2.4610) are standard combinations and cover a large range of applications.

The space available in the sealing area allows to use standard seals. Special versions on request.

**Drive**
Surface-cooled three-phase motors with extended rotor shaft and reinforced bearing, otherwise according to IEC standard, 1450min⁻¹ or 2900min⁻¹, enclosure IP 55, insulation class F, mounting IM B5.
### Nominal pump capacities according to DIN/EN 22 858

<table>
<thead>
<tr>
<th>Pump size BN ...</th>
<th>Nominal pump capacities at 1450 min⁻¹</th>
<th>Nominal pump capacities at 2900 min⁻¹</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nominal flow rate [m³/h]</td>
<td>Nominal head [m]</td>
</tr>
<tr>
<td>50-32-125</td>
<td>6.3</td>
<td>5</td>
</tr>
<tr>
<td>50-32-160</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>50-32-200</td>
<td>12.5</td>
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<tr>
<td>65-40-125</td>
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<tr>
<td>80-50-125</td>
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<tr>
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<td>25</td>
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<tr>
<td>80-50-200</td>
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<tr>
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<td>5</td>
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<tr>
<td>100-65-160</td>
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</tbody>
</table>

### Dimensions

_Pump_
## Chemical Motor Pump Unit BN

<table>
<thead>
<tr>
<th>Pump size BN ...</th>
<th>Power in kW at 1450min-1</th>
<th>Motor size</th>
<th>L</th>
<th>Approx. weight kg (PP) 1450min-1</th>
<th>2900min-1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>50-32-125</strong></td>
<td>1,1</td>
<td>90S</td>
<td>490</td>
<td>28</td>
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<tr>
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<td>510</td>
<td>-</td>
<td>34</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td>-</td>
<td>112</td>
<td>560</td>
<td>-</td>
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<tr>
<td><strong>50-32-160</strong></td>
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<td>520</td>
<td>39</td>
<td>39</td>
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<td>112</td>
<td>570</td>
<td>-</td>
<td>52</td>
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<td>-</td>
<td>5,5+7,5+11</td>
<td>132</td>
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<td>79/85/85</td>
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<td>570</td>
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<td>640</td>
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<tr>
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<td>610</td>
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### Dimensions

**Pump**

<table>
<thead>
<tr>
<th>Pump size BN ...</th>
<th>Flange connection dimensions according to DIN 2501, Part f. PN10</th>
<th>Pump dimensions</th>
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<tr>
<td></td>
<td>DNx</td>
<td>DNy</td>
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<td>160</td>
</tr>
<tr>
<td>65-40-125</td>
<td>65</td>
<td>40</td>
</tr>
<tr>
<td>65-40-160</td>
<td>80</td>
<td>132</td>
</tr>
<tr>
<td>65-40-200</td>
<td>100</td>
<td>160</td>
</tr>
<tr>
<td>80-50-125</td>
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<tr>
<td>80-50-160</td>
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<td>65</td>
</tr>
<tr>
<td>100-65-160</td>
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<td>180</td>
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</table>

**Flanges**

<table>
<thead>
<tr>
<th>Flanges according to DIN 2501</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN</td>
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<tr>
<td>65</td>
</tr>
<tr>
<td>80</td>
</tr>
<tr>
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</table>
Mechanical seals

General
Mechanical seals basically consist of two perfectly plane surfaces. One surface rotates with the shaft, while the other one is stationary. The sealing effect is achieved by the direct contact between the two plane surfaces. The stationary counter-ring is normally fixed in position. The sliding ring is able to move axially and radially in order to compensate the shaft deflections during operation. This axial mobility enables mechanical seals to be fitted within practicable manufacturing tolerances, the accuracy required being dependent on the design of the seal.

Type B2I
Single-acting, loaded, internal seal, independent of direction of rotation.
Combination of sliding materials in silicon carbide (SiC), Bellows and secondary seals of EPDM and FPM. Metallic parts of stainless steel or Hastelloy C-4.
Suitable for application with neutral and aggressive media which do not crystallize out and are free from solid matter.

Type B2Q
Single-acting, loaded, internal seal, independent of direction of rotation, with quenching chamber. The quenching chamber is sealed from the atmosphere by a shaft sealing ring to prevent deposits and/or reduction of the temperature in the area of the mechanical seal.
Combination of sliding materials in silicon carbide (SiC), Bellows and secondary seals of EPDM and FPM. Metallic parts of stainless steel or Hastelloy C-4.
Suitable for application with aggressive media tending to crystallize out.

Function of quending:
- Prevention of crystallizing rings (air seals)
- Absorption of leakage
- Cooling of sliding rings
- Monitoring of leakage rate
- Lubricating film stabilization during vacuum operation

Lutz-Jesco GmbH
Improved changes are always reserved without notice.
Double-acting, loaded, internal seal, independent of direction of rotation, arranged back-to-back with sealing chamber. This arrangement is the most usual form of double-acting seals used for difficult, chemically particularly aggressive media.

Combination of sliding materials in silicon carbide (SiC). Bellows and secondary seals of EPDM and FPM. Metallic parts of stainless steel.

Suitable for application with aggressive and abrasive media.

**Function of sealing:**
- Prevention of contact between pumped liquid and atmosphere
- Formation of lubricating film between the sliding rings
- Cooling of sliding rings
- Monitoring of leakage rate
Performance curves
The following diagrams show the Q-H curves in dependence of the impeller diameter as well as the power consumption in kW, the efficiency and the NPSH value (only for nominal speed of 2900 min⁻¹).
Flow rate and efficiency guarantees according to DIN 1944.

Type BN 50 - 32 - 125
Motor kW: 2.2
Speed: 2900

![Flow rate diagram](image1)

![Efficiency diagram](image2)

![Power consumption diagram](image3)
Type BN 50 - 32 - 125

Motor  kW:  1.1
       Speed:  1450

Flow rate

Meters of head

Flow rate in m³/h

Flow rate in m³/h

Efficiency

Hyd. efficiency in %

Flow rate in m³/h

Power consumption

Power consumption in kW

Flow rate in m³/h

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Improved changes are always reserved without notice.
Type BN 50 - 32 - 160

Motor
- kW: 4
- Speed: 2900

Chemical Motor Pump Unit BN

![Graphs showing flow rate, efficiency, and power consumption vs. flow rate.](image-url)
Type BN 50 - 32 - 160

Motor
- kW: 1.5
- Speed: 1450

Flow rate in m³/h
- Flow rate
- Meters of head
- Efficiency
- Hyd. efficiency in %
- Power consumption in kW

Lutz-Jesco GmbH
Improved changes are always reserved without notice.
Type BN 50 - 32 - 200

Motor
- kW: 7.5
- Speed: 2900

Flow rate
- Meters of head

Efficiency
- Hyd. efficiency in %

Power consumption
- Power consumption in kW

Lutz-Jesco GmbH
Improved changes are always reserved without notice.
Type BN 50 - 32 - 200

Motor

kW: 1.5
Speed: 1450

Flow rate

Meters of head

0 2 4 6 8 10 12 14 16 18

Flow rate in m³/h

0 5 10 15 20 25 30 35

d 210

Efficiency

Hyd. efficiency in %

0 5 10 15 20 25 30 35

Flow rate in m³/h

0 5 10 15 20 25 30 35

d 180

Power consumption

Power consumption in kW

0 0.5 1 1.5 2

Flow rate in m³/h

0 5 10 15 20 25 30 35

d 210

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type BN 65 - 40 - 125

Motor
- kW: 3
- Speed: 2900

Flow rate

Flow rate in m³/h

Meters of head

Hydraulic efficiency in %

Efficiency

Flow rate in m³/h

Power consumption in kW

Power consumption

Flow rate in m³/h

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type BN 65 - 40 - 125

Motor
kW: 1.5
Speed: 1450

Flow rate

Efficiency

Power consumption

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type BN 65 - 40 - 160

Motor
- kW: 7.5
- Speed: 2900

Flow rate

- Flow rate in m³/h

Meters of head

- Meters of head

Efficiency

- Hyd. efficiency in %

Power consumption

- Power consumption in kW

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type BN 65 - 40 - 160

Motor
kW: 2.2
Speed: 1450
Type BN 65 - 40 - 200

Motor kW: 7.5
Speed: 2900

Flow rate

Efficiency

Power consumption

Lutz-Jesco GmbH
Improved changes are always reserved without notice.
Type BN 65 - 40 - 200

Motor
- kW: 2.5
- Speed: 1450

Flow rate
- Flow rate in m³/h
- Meters of head

Efficiency
- Flow rate in m³/h
- Hyd. efficiency in %

Power consumption
- Flow rate in m³/h
- Power consumption in kW
Typ BN 80 - 50 - 125

Motor
- kW: 7.5
- Speed: 2900

Flow rate

Efficiency

Power consumption
Type BN 80 - 50 - 160

Motor
kW: 11
Speed: 2900

Flow rate

Meters of head

Efficiency

Hyd. efficiency in %

Power consumption

Power consumption in kW

Flow rate in m³/h

Flow rate in m³/h

Flow rate in m³/h
Type BN 80 - 50 - 160

Motor
- kW: 4
- Speed: 1450

Flow rate

Meters of head

Förderstrom in m³/h

Förderhöhe in mWs

Efficiency

Hyd. efficiency in %

Power consumption

Leistungsbedarf in kW

Flow rate in m³/h

Flow rate in m³/h

Flow rate in m³/h

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type BN 80 - 50 - 200

Motor
- kW: 15
- Speed: 2900

Flow rate

Meters of head

Efficiency

Hyd. efficiency in %

Power consumption

Power consumption in kW

Flow rate in m³/h

Lutz-Jesco GmbH
Improved changes are always reserved without notice.
Type BN 80 - 50 - 200

Motor
kW: 3
Speed: 1450

Flow rate

Meters of head

Efficiency

Hyd. efficiency in %

Power consumption

Power consumption in kW

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type BN 100 - 65 - 125

Motor
kW: 11
Speed: 2900

---

Flow rate

Meters of head

Flow rate in m³/h

Hyd. efficiency in %

Flow rate in m³/h

Power consumption in kW

Flow rate in m³/h

---

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type BN 100 - 65 - 125

Motor
- kW: 5.5
- Speed: 1450

Flow rate
- Flow rate in m³/h
- Meters of head

Efficiency
- Flow rate in m³/h
- Hyd. efficiency in %

Power consumption
- Flow rate in m³/h
- Power consumption in kW
Type BN 100 - 65 - 160

Motor
- kW: 15
- Speed: 2900

Flow rate

Hydraulic efficiency

Power consumption

Lutz-Jesco GmbH
Improved changes are always reserved without notice.
General
Centrifugal chemical pumps are used for pumping acid and alkalis and other low-viscosity, aggressive liquids and neutral media.

The MB motor pump is a single-stage, normal-priming centrifugal pump in block design with horizontal axis. The MB pump has an open impeller for low-viscosity, acid and alkaline solutions with low solid matter content. The pump head assembly consists of high-quality plastic materials with hydraulically efficient spiral casing.

Description of mechanical seal
Mechanical seals basically consist of two perfectly plane surfaces. One surface rotates with the shaft, while the other is stationary. The sealing effect is achieved by the direct contact between the two plane surfaces. The stationary counter-ring is normally fixed in position. The sliding ring is able to move axially and radially in order to compensate the shaft deflections during operation. This axial mobility enables mechanical seals to be fitted within practicable manufacturing tolerances, the accuracy required being dependent on the design of the seal.

Drive
There is a choice of:
- three-phase motors with extended rotor shaft, 2900 min⁻¹, 230/400 V, 50 Hz, IP 55, insulation class F.
- a.c. motors with extended rotor shaft, 2900 min⁻¹, 230 V, 50 Hz, IP 55, insulation class F.

Connections
Standard version with male thread fitted on suction and pressure side for connection of standard unions.

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<thead>
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<th>Materials</th>
<th>PP max. 80° C</th>
<th>PE max. 60° C</th>
<th>PVC max. 60° C</th>
<th>PVDF max. 120° C</th>
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<td>PP</td>
<td>PE</td>
<td>PVC</td>
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<td>PVDF</td>
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<td>O-rings</td>
<td>EPDM, FPM</td>
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<tr>
<td>Mechanical seal</td>
<td>C2/Sic - EPDM, FPM - 1.4571, Hastelloy C4</td>
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<tr>
<td>Shaft sleeve</td>
<td>Synthetic resin impregnated carbon</td>
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<tr>
<td>Intermediate piece</td>
<td>Cast iron with chemically resistant coating</td>
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<td>Screws</td>
<td>A4</td>
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</table>
Chemical Motor Pump Unit MB

Technical Features

Pump head MB 20-100/20-120/25-140

Drive

Pump head MB 15-85

Drive

1. Spiral casing with connection
2. Impeller
3. Impeller cap
4. Flange suction side
5. Flange pressure side
6. O-ring (impeller)
7. O-ring (impeller cap)
8. O-ring (suction connection)
9. O-ring (pressure connection)
10. O-ring (spiral casing)
11. Gasket
12. Hex. screw
13. Washer
14. Intermediate piece
15. Hex. nut
16. Washer
17. Adjusting spring
18. Hex. screw
19. Washer
20. Electric motor

Shaft seal

Mechanical seal type B2I, single acting, internal

1. Back plate
2. Counter-ring flange
3. J-hex. screw ring with washer
4. Shaft sleeve
5. Mechanical seal set
Shaft seal

1. Back plate
2. Counter-ring flange
3. Quenching/Sealing chamber
4. J-hex. screw ring with washer
5. Mechanical seal set
6. Shaft sleeve (at B2Q with impeller)
8. Disengagement lock
9. Spacer ring

Performance curves

- Mechanical seal type B2Q, single acting, with quenching chamber
- Mechanical seal type B2D, double acting, with sealing chamber

<table>
<thead>
<tr>
<th>Speed $n_0$=2900 min⁻¹ (50Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H = Head [mWC]</td>
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<table>
<thead>
<tr>
<th>P = Power consumption [kW]</th>
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Q = Flow rate [m³/h]

MB 5 01 01 / 3

Chemical Motor Pump Unit MB
## Chemical Motor Pump Unit MB

### Dimensions

![Connection for sealing chamber G 1/2](image)

<table>
<thead>
<tr>
<th>Pump type</th>
<th>Thread-connection*</th>
<th>Flange** PN 10 DIN 2501</th>
<th>Pump dimensions</th>
<th>Sealing chamber</th>
<th>Quenching chamber</th>
<th>Motor Power (kW)</th>
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<tr>
<td>MB 15-85</td>
<td>G 1</td>
<td>G 1 1/4</td>
<td>DN_a DN_b a h1 h2 w e ø s b n1 n2 c d -L f</td>
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* Standard version

** Special version
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<th>Mechanical seal</th>
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<td>B2I G** M***</td>
<td>B2Q G** M***</td>
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<td></td>
<td>FPM</td>
<td>000 337 000 340</td>
<td>000 346 000 349</td>
</tr>
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</table>

* Impeller in PVDF
** Metal components of stainless steel 1.4571
*** Metal components of Hastelloy C4
General
Pump
N-type standard pumps are normal-priming, single-stage, plastic centrifugal pumps with horizontal axis. Their dimensions and flow rates correspond to DIN/EN 22858.

The pumps of this series were developed to meet the requirements of the chemical industry and are therefore especially suited to pump pure or solid matter containing, acid or alkaline, low-viscosity liquids.

As the materials getting in contact with the pumped medium are physiologically harmless, the pumps can also be used in the food industry.

The standard use of extension coupling ensures simple dismantling of bearing supports and internal pump components without removing the pipe connections and motor. This avoids laborious alignment of the pump and motor when assembling the system.

Position of connections, flanges
The suction connection is positioned axially, the pressure flange radially in upward direction. As a standard the suction and pressure connections are fitted with flanges according to DIN 2501/PN 10.

Shaft and bearing
Bearing of the strongly dimensioned stainless steel shaft is done by two oil or grease-lubricated roller bearings accommodated by a 26 cast iron bearing support. A shaft sleeve of synthetic resin-impregnated carbon (or PVDF) protects the pump shaft against contact with the pumped medium.

Shaft seals
The shafts are sealed by means of maintenance-free mechanical seals. Depending on the operating conditions, internal, single-acting or double-acting versions are used. Double-acting mechanical seals require a sealing liquid. Sliding materials in silicon carbide (SiC), bellows and secondary seals of EPDM or FPM, metallic parts of stainless steel (1.4571) or Hastelloy C-4 (2.4610) are standard combinations and cover a large range of applications. The space available in the sealing area allows to use standard seals. Special versions on request.
Chemical N-type standard pumps are supplied as complete units consisting of pump, coupling and electric motor mounted on a common steel base plate.

Surface-cooled three-phase motors according to IEC standard, 1450 rpm or 2900 rpm, enclosure IP 55, insulation class F, mounting IM B3.

Nominal pump capacities according to DIN/EN 22 858

<table>
<thead>
<tr>
<th>Pumpe size N ...</th>
<th>Output at 1450 rpm</th>
<th></th>
<th>Output at 2900 rpm</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nominal flow rate [m³/h]</td>
<td>Nominal head [m]</td>
<td>Nominal flow rate [m³/h]</td>
<td>Nominal head [m]</td>
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<tr>
<td>50-32-125</td>
<td>8,3</td>
<td>5</td>
<td>12,5</td>
<td>20</td>
</tr>
<tr>
<td>50-32-160</td>
<td>5</td>
<td>8</td>
<td>8</td>
<td>32</td>
</tr>
<tr>
<td>50-32-200</td>
<td>12,5</td>
<td>20</td>
<td>12,5</td>
<td>50</td>
</tr>
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<td>65-40-125</td>
<td>12,5</td>
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<td>65-40-160</td>
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<td>80-50-160</td>
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<td>80-50-200</td>
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<td>20</td>
<td>80</td>
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<td>80-50-315</td>
<td>32</td>
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<td>100-65-125</td>
<td>50</td>
<td>5</td>
<td>100</td>
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<td>100-65-160</td>
<td>8</td>
<td>32</td>
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<tr>
<td>100-65-250</td>
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<td>100-65-315</td>
<td>32</td>
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Extension coupling and electric motor

Extension coupling N-EUPEX

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<th>coupling rubber kit</th>
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The part numbers of the extension coupling depend on pump and engine sizes and are available on request.

Electric motor

Three-phase motor assembly, mounting B3, according to IEC standard, 3x400 V / 50 Hz, insulation class F, enclosure IP 55.

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<th>Size 1450 rpm</th>
<th>Part No.</th>
<th>Size 2900 rpm</th>
<th>Part No.</th>
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### Dimensions of pump assembly

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<th>Drive motor 2900 rpm</th>
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* at max. motor power

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
## Standard Pump N

### Dimensions of pump assembly

![Diagram of pump assembly](image)

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* at max. motor power
## Dimensions of Pump Head / Bearing Support Assembly

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### Pump Dimensions

- a: Inlet Diameter
- f: Flange Connection Diameter
- h1, h2: Flange Connection Height
- d, l: Shaft Diameter and Length
- t, b: Shaft Support Dimensions

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Lutz-Jesco GmbH

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## Pump head / bearing support assembly

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## Dimensions of pump head / bearing support assembly

![Diagram of pump head / bearing support assembly]

### Flanges according to DIN 2501

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## Assignment of base plates and couplings

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Lutz-Jesco GmbH
Improved changes are always reserved without notice.
## Assignment of base plates and couplings

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Other motor sizes on request
Mechanical seals

General
Mechanical seals basically consist of two perfectly plane surfaces. One surface rotates with the shaft, while the other one is stationary. The sealing effect is achieved by the direct contact between the two plane surfaces. The stationary counter-ring is normally fixed in position.

The sliding ring is able to move axially and radially in order to compensate the shaft deflections during operation. This axial mobility enables mechanical seals to be fitted within practicable manufacturing tolerances, the accuracy required being dependent on the design of the seal.

Type B2I

- Single-acting, loaded, internal seal, independent of direction of rotation.
- Combination of sliding materials in silicon carbide (SiC).
- Bellows and secondary seals of EPDM and FPM. Metallic parts of stainless steel or Hastelloy C-4.
- Suitable for application with neutral and aggressive media which do not crystallize out and are free from solid matter.

Type B2Q

- Single-acting, loaded, internal seal, independent of direction of rotation, with quenching chamber. The quenching chamber is sealed from the atmosphere by a shaft sealing ring to prevent deposits and/or reduction of the temperature in the area of the mechanical seal.
- Combination of sliding materials in silicon carbide (SiC).
- Bellows and secondary seals of EPDM and FPM. Metallic parts of stainless steel or Hastelloy C-4.
- Suitable for application with aggressive media tending to crystallize out.

Function of quenching:
- Prevention of crystallizing rings (air seals)
- Absorption of leakage
- Cooling of sliding rings
- Monitoring of leakage rate
- Lubricating film stabilization during vacuum operation
Double-acting, loaded, internal seal, independent from direction of rotation, arranged back-to-back with sealing chamber. This arrangement is the most usual form of double-acting seals used for difficult, chemically particularly aggressive media.

Combination of sliding materials in silicon carbide (SiC). Bellows and secondary seals of EPDM and FPM. Metallic parts of stainless steel.

Suitable for application with aggressive and abrasive media.

**Function of sealing:**
- Prevention of contact between pumped liquid and atmosphere
- Formation of lubricating film between the sliding rings
- Cooling of sliding rings
- Monitoring of leakage rate
Performance curves
The following diagrams show the Q-H curves in dependence of the impeller diameter as well as the power consumption in kW, the efficiency and the NPSH value (only for nominal speed of 2900 min⁻¹).
Flow rate and efficiency guarantees according to DIN 1944.

Type N 50 - 32 - 125

Motor kW: 2.2
Speed: 2900

Flow rate

**Power consumption**

Lutz-Jesco GmbH

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Type N 50 - 32 - 125

Motor
- kW: 1.1
- Speed: 1450

Flow rate vs. Meters of head

Flow rate vs. Efficiency

Flow rate vs. Power consumption

Lutz-Jesco GmbH
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Type N 50 - 32 - 160

Motor kW: 4
Speed: 2900

Flow rate

Efficiency

Power consumption

Lutz-Jesco GmbH

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**Type N 50 - 32 - 160**

**Motor**
- kW: 1.5
- Speed: 1450

**Flow rate**
- Flow rate in m³/h

**Meters of head**
- Meters of head

**Efficiency**
- Efficiency
- Hyd. efficiency in %

**Power consumption**
- Power consumption in kW

---

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Type N 50 - 32 - 200

Motor
- kW: 7.5
- Speed: 2900

Flow rate vs. Meters of head
- d210
- d190

Flow rate vs. Efficiency
- d210
- d190

Flow rate vs. Power consumption
- d210
- d190

Lutz-Jesco GmbH
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Type N 50 - 32 - 200

Motor
- kW: 1.5
- Speed: 1450

![Graphs showing flow rate, efficiency, and power consumption vs. flow rate for different diameters (d 210 and d 180).]

Lutz-Jesco GmbH

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Type N 50 - 32 - 250

Motor

- kW: 3
- Speed: 2900

Flow rate

Meters of head

Förderstrom in m³/h

Förderhöhe in mWs

Power consumption in kW

Flow rate in m³/h

Efficiency

Hyd. efficiency in %

Flow rate in m³/h

Power consumption in kW

Flow rate in m³/h
Type N 50 - 32 - 250

Motor

- kW: 2.2
- Speed: 1450

Flow rate vs. Meters of head

Flow rate vs. Efficiency

Flow rate vs. Power consumption

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 65 - 40 - 125

Motor

- kW: 3
- Speed: 2900

Flow rate

Meters of head

- d 140
- d 120

Efficiency

Hyd. efficiency in %

- d 140
- d 120

Power consumption

Power consumption in kW

- d 140
- d 120

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 65 - 40 - 125

Motor
- kW: 1.5
- Speed: 1450

Flow rate

Meters of head

Efficiency

Hyd. efficiency in %

Power consumption

Power consumption in kW

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 65 - 40 - 160

Motor kW: 7.5
Speed: 2900

Flow rate

Meters of head

Efficiency

Hyd. efficiency in %

Power consumption

Power consumption in kW

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
**Type N 65 - 40 - 160**

**Motor**
- kW: 2.2
- Speed: 1450

---

**Flow rate vs. Meters of head**

- d 172
- d 155

---

**Efficiency vs. Flow rate**

- d 172
- d 155

---

**Power consumption vs. Flow rate**

- d 172
- d 155

---

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 65 - 40 - 200

Motor kW: 7.5
Speed: 2900

Flow rate

Meters of head

Efficiency

Hyd. efficiency in %

Power consumption

Power consumption in kW

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 65 - 40 - 200

Motor

- **kW:** 2.5
- **Speed:** 1450

---

**Flow rate vs. Meters of head**

- **d 210**
- **d 200**

**Efficiency vs. Flow rate**

- **d 210**
- **d 200**

**Power consumption vs. Flow rate**

- **d 210**
- **d 200**

---

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 65 - 40 - 250

Motor
- kW: 22
- Speed: 2900

Flow rate
- Flow rate in m³/h

Efficiency
- Hyd. efficiency in %

Power consumption
- Power consumption in kW

Lutz-Jesco GmbH
Improved changes are always reserved without notice.
Type N 65 - 40 - 250

Motor
- kW: 5.5
- Speed: 1450

Flow rate in m³/h vs. Meters of head

Flow rate in m³/h vs. Efficiency

Flow rate in m³/h vs. Hyd. efficiency in %

Flow rate in m³/h vs. Power consumption in kW

Lutz-Jesco GmbH
Improved changes are always reserved without notice.
Type N 65 - 40 - 315

Motor
- kW: 30
- Speed: 2900

Flow rate vs. Flow rate in m³/h

Meters of head vs. Flow rate in m³/h

Efficiency vs. Flow rate in m³/h

Hyd. efficiency in % vs. Flow rate in m³/h

Power consumption vs. Flow rate in m³/h

Power consumption in kW vs. Flow rate in m³/h

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 65 - 40 - 315

Motor

- kW: 5.5
- Speed: 1450

Flow rate in m³/h

- Meters of head

- Efficiency

- Hyd. efficiency in %

- Power consumption

- Power consumption in kW

Lutz-Jesco GmbH
Type N 80 - 50 - 125

Motor

- kW: 7.5
- Speed: 2900

Flow rate

<table>
<thead>
<tr>
<th>Flow rate in m³/h</th>
<th>d 145</th>
<th>d 125</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
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<td></td>
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<tr>
<td>10</td>
<td></td>
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<tr>
<td>20</td>
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<tr>
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<td>40</td>
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<tr>
<td>50</td>
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<tr>
<td>60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>70</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Meters of head

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<th>d 125</th>
</tr>
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<tr>
<td>70</td>
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</tbody>
</table>

Efficiency

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<th>d 125</th>
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</table>

Hyd. efficiency in %

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Power consumption

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Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 80 - 50 - 125

Motor
- kW: 1,5
- Speed: 1450

Flow rate

Meters of head

Flow rate in m³/h

Efficiency

Hyd. efficiency in %

Flow rate in m³/h

Power consumption

Power consumption in kW

Flow rate in m³/h
Type N 80 - 50 - 160

Motor
- kW: 11
- Speed: 2900

Flow rate
- Meters of head
  - d 172
  - d 155

Efficiency
- Hyd. efficiency in %
  - d 172
  - d 155

Power consumption
- Power consumption in kW
  - d 172
  - d 155

Lutz-Jesco GmbH
Improved changes are always reserved without notice.
Type N 80 - 50 - 160

Motor
kw: 4
Speed: 1450
Type N 80 - 50 - 200

Motor
kW: 15
Speed: 2900

Flow rate

Meters of head

Efficiency

Hyd. efficiency in %

Power consumption

Power consumption in kW

Flow rate in m³/h

Flow rate in m³/h

Flow rate in m³/h

Flow rate in m³/h

Flow rate in m³/h

Flow rate in m³/h

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 80 - 50 - 200

Motor
- kW: 3
- Speed: 1450

Flow rate

Meters of head

Flow rate in m³/h

Hydro. efficiency in %

Flow rate in m³/h

Power consumption

Power consumption in kW

Flow rate in m³/h

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 80 - 50 - 250

Motor:
- kW: 22
- Speed: 2900

Flow rate

- d 245
- d 230

Efficiency

- d 245
- d 230

Power consumption

- d 245
- d 230
Type N 80 - 50 - 250

Motor

kW: 5.5
Speed: 1450

Flow rate

Meters of head

0 5 10 15 20 25 30 35 40 45

Flow rate in m³/h

0 5 10 15 20 25 30 35 40 45

Flow rate in m³/h

Efficiency

Hyd. efficiency in %

0 10 20 30 40 50 60 70 80

Flow rate in m³/h

Power consumption

Power consumption in kW

0 0.5 1.5 2.5 3.5 4.5 5

Flow rate in m³/h

0 5 10 15 20 25 30 35 40 45

Flow rate in m³/h

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 80 - 50 - 315

Motor

- kW: 7.5
- Speed: 1450

![Graphs showing flow rate, efficiency, and power consumption](image-url)
Type N 100 - 65 - 125

Motor kW: 11
Speed: 2900

Flow rate

Meters of head

Flow rate in m³/h

Efficiency

Hyd. efficiency in %

Flow rate in m³/h

Power consumption

Power consumption in kW

Flow rate in m³/h

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 100 - 65 - 125

Motor

kW: 5,5
Speed: 1450

Flow rate

Meters of head

Flow rate in m³/h

Efficiency

Hyd. efficiency in %

Flow rate in m³/h

Power consumption

Power consumption in kW

Flow rate in m³/h
Type N 100 - 65 - 160

Motor
kW: 15
Speed: 2900

Flow rate in m³/h

Meters of head

Efficiency in %

Hyd. efficiency in %

Power consumption in kW

Flow rate in m³/h

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 100 - 65 - 160

Motor
- kW: 3
- Speed: 1450

Flow rate
- Flow rate in m³/h
- Meters of head
- Flow rate in m³/h
- Efficiency
- Hyd. efficiency in %
- Flow rate in m³/h
- Power consumption
- Power consumption in kW

Lutz-Jesco GmbH
Improved changes are always reserved without notice.
Type N 100 - 65 - 200

Motor
- kW: 22
- Speed: 2900

---

Flow rate in m³/h

- d 190
- d 180

Efficiency

- d 190
- d 180

Hyd. efficiency in %

- d 190
- d 180

Power consumption in kW

- d 190
- d 180

---

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 100 - 65 - 200

Motor
- kW: 4
- Speed: 1450

Flow rate in m³/h vs. Flow rate in m³/h

Meters of head vs. Flow rate in m³/h

Efficiency vs. Flow rate in m³/h

Hyd. efficiency in % vs. Flow rate in m³/h

Power consumption in kW vs. Flow rate in m³/h

Lutz-Jesco GmbH
Improved changes are always reserved without notice.
Type N 100 - 65 - 250

Motor
- kW: 30
- Speed: 2900

Flow rate

- Flow rate in m³/h
- Meters of head
- d 265
- d 225

Efficiency

- Hyd. efficiency in %
- d 265
- d 225

Power consumption

- Power consumption in kW
- d 265
- d 225

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 100 - 65 - 250

Motor
- kW: 5.5
- Speed: 1450

Flow rate vs. Meters of head

Efficiency vs. Flow rate

Power consumption vs. Flow rate
Type N 100 - 65 - 315

Motor
- kW: 18.5
- Speed: 1450

Flow rate in m³/h

- d 325
- d 270

Efficiency

Hyd. efficiency in %

Power consumption

- d 325
- d 270

Lutz-Jesco GmbH
Improved changes are always reserved without notice.
Type N 125 - 80 - 160

Motor
- kW: 15
- Speed: 2900

Flow rate in m³/h

Meters of head

Efficiency

Hyd. efficiency in %

Power consumption in kW

Power consumption

Flow rate in m³/h

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 125 - 80 - 160

Motor kW: 5,5
Speed: 1450

Flow rate

Meters of head

Efficiency

Hyd. efficiency in %

Power consumption

Leistungsbedarf in kW

Leistungsbedarf

Flow rate in m³/h

Flow rate

Flow rate in m³/h

Förderstrom in m³/h

Förderstrom

Förderhöhe in mWs

Wirkungsgrad

d 170

d 170

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 125 - 80 - 200

Motor
- kW: 30
- Speed: 2900

![Flow rate graph](image)

![Efficiency graph](image)

![Power consumption graph](image)
Type N 125 - 80 - 200

Motor
- kW: 7.5
- Speed: 1450

Flow rate

Meters of head

Flow rate in m³/h

Efficiency

Hyd. efficiency in %

Flow rate in m³/h

Power consumption

Power consumption in kW

Flow rate in m³/h

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 125 - 80 - 250

Motor kW: 15
Speed: 2900

Flow rate

Meters of head

Efficiency

Hyd. efficiency in %

Power consumption

Power consumption in kW
Type N 125 - 80 - 250

Motor
- kW: 11
- Speed: 1450

Flow rate in m³/h vs. Meters of head

Efficiency

Hyd. efficiency in % vs. Flow rate in m³/h

Power consumption

Power consumption in kW vs. Flow rate in m³/h

Lutz-Jesco GmbH
Improved changes are always reserved without notice.
Type N 125 - 80 - 315

Motor

- kW: 20
- Speed: 1450

Flow rate in m³/h

Efficiency

Hyd. efficiency in %

Power consumption in kW

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 125 - 100 - 200

Motor
kW: 5,5
Speed: 1450

Flow rate

Meters of head

Efficiency

Hyd. efficiency in %

Power consumption

Power consumption in kW

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 125 - 100 - 250

Motor
- kW: 15
- Speed: 1450

Flow rate
- Meters of head

Efficiency
- Hyd. efficiency in %

Power consumption
- Power consumption in kW
Type N 125 - 100 - 315

Motor

- kW: 22
- Speed: 1450

Flow rate

Meters of head

Förderstrom in m³/h

Förderhöhe in mWs

Wirkungsgrad

Hyd. Wirkungsgrad in %

Leistungsbedarf

Power consumption in kW

Meters of head

Flow rate in m³/h

Efficiency

Hyd. efficiency in %

Flow rate in m³/h

Power consumption

Power consumption in kW

Flow rate in m³/h

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 150 - 125 - 250

Motor
- kW: 11
- Speed: 1450

Flow rate

Meters of head

Flow rate in m³/h

Hyd. efficiency in %

Efficiency

Flow rate in m³/h

Power consumption in kW

Power consumption

Flow rate in m³/h

Lutz-Jesco GmbH

Improved changes are always reserved without notice.
Type N 200 - 150 - 250

Motor

- kW: 18.5
- Speed: 1450

**Graphs:**

1. **Flow rate**
   - Graph showing flow rate in m³/h against meters of head.
   - Curves for d 265 and d 245.

2. **Efficiency**
   - Graph showing flow rate in m³/h against hydraulic efficiency in %.
   - Curves for d 265 and d 245.

3. **Power consumption**
   - Graph showing flow rate in m³/h against power consumption in kW.
   - Curves for d 265 and d 245.
Type BN 100 - 65 - 160

Motor
kW: 3
Speed: 1450

Flow rate

Meters of head

Efficiency

Hyd. efficiency in %

Power consumption

Power consumption in kW

Flow rate in m³/h

Lutz-Jesco GmbH

Improved changes are always reserved without notice.