Design
Non-self-priming multistage centrifugal pumps

Application
• Water supply
• Sprinkling
• Irrigation and spraying
• Rainwater utilisation

Type key
Example: MP-305-EM
MP MultiPress (multistage, non-self-priming, horizontal centrifugal pump)
3 Nominal flow rate Q in m³/h
05 Number of impellers
EM Single-phase current, 1~230 V, 50 Hz
DM Three-phase current, 3~400 V, 50 Hz

Special features/product advantages
• Low-noise
• Ideal as a base-load pump for rainwater utilisation
• IE2-IEC three-phase AC motor (≥ 0.75 kW)

Technical data
• Mains connection 1~230 V, 50 Hz, 3~400 V, 50 Hz
• Max. inlet pressure of 6 bar
• Fluid temperature max. +5 °C to +35 °C
• Max. ambient temperature of +40 °C
• Max. operating pressure of 10 bar
• Protection class 1~: IP X4; 3~: IP 54
• Pressure-side connections Rp 1
• Suction-side connections: Rp 1 for MP3.; Rp 1¼ for MP6.

Equipment/function
• Directly flanged motor
• Thermal motor protection switch for 1~230V version

Materials
• Pump housing stainless steel 1.4301
• Impeller made of Noryl
• Shaft made of 1.4028 / 14404 stainless steel (1.1 kW)
• Mechanical seal made of ceramic/carbon
• Stage chambers made of Noryl
• Seals made of NBR

Scope of delivery
• Pump
• Installation and operating instructions

Accessories
• Switchgear ER with corresponding accessories for automated operation,
• Protection against low water level:
  • Float switch WA65 with small switchgear (only for EM version),
  • SK 277 with three submersible electrodes,
  • Pressure switch WVA,
  • WILO Fluidcontrol (EK),
• System switching:
  • Float switch WAO 65,
  • Float switch WAO EK 65 with small switchgear (only for EM version)
## Product list: Wilo-MultiPress MP

<table>
<thead>
<tr>
<th>Type</th>
<th>Mains connection</th>
<th>Nominal motor power</th>
<th>Weight approx.</th>
<th>Art no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP 303</td>
<td>1~230 V, 50 Hz</td>
<td>0.55</td>
<td>8.8</td>
<td>403225</td>
</tr>
<tr>
<td>MP 304</td>
<td>1~230 V, 50 Hz</td>
<td>0.55</td>
<td>9.1</td>
<td>403226</td>
</tr>
<tr>
<td>MP 305</td>
<td>3~230/400 V, 50 Hz</td>
<td>0.55</td>
<td>8.2</td>
<td>403355</td>
</tr>
<tr>
<td>MP 305</td>
<td>3~230/400 V, 50 Hz</td>
<td>0.75</td>
<td>13</td>
<td>414942</td>
</tr>
<tr>
<td>MP 306</td>
<td>1~230 V, 50 Hz</td>
<td>0.75</td>
<td>9.4</td>
<td>403229</td>
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<tr>
<td>MP 603</td>
<td>3~230/400 V, 50 Hz</td>
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<td>8.7</td>
<td>403210</td>
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<tr>
<td>MP 604</td>
<td>3~230/400 V, 50 Hz</td>
<td>0.75</td>
<td>13</td>
<td>414968</td>
</tr>
<tr>
<td>MP 605</td>
<td>1~230 V, 50 Hz</td>
<td>0.75</td>
<td>10.6</td>
<td>403211</td>
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<tr>
<td>MP 605</td>
<td>3~230/400 V, 50 Hz</td>
<td>1.10</td>
<td>14.4</td>
<td>414988</td>
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<tr>
<td>MP 605</td>
<td>1~230 V, 50 Hz</td>
<td>1.10</td>
<td>13.5</td>
<td>403213</td>
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</table>

Subject to change without prior notice.
Data sheet: Wilo-MultiPress MP 303 (1~230 V)

Pump curves

$n = 2900$ rpm

<table>
<thead>
<tr>
<th>Curve</th>
<th>$Q$ (m$^3$/h)</th>
<th>$H$ (m)</th>
<th>Efficiency ($\eta_p$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP 305</td>
<td>0.50</td>
<td>1.5</td>
<td>0.90</td>
</tr>
<tr>
<td>MP 304</td>
<td>1.0</td>
<td>2.0</td>
<td>0.85</td>
</tr>
<tr>
<td>MP 303</td>
<td>1.5</td>
<td>2.5</td>
<td>0.80</td>
</tr>
</tbody>
</table>

Approved fluids (other fluids on request)

- Pure water without settling sediment
- Process water, cold water, cooling water, rainwater
- Rainwater

Output

- Max. inlet pressure $H$ 6 bar
- Fluid temperature $T$ $+5...+35$ °C
- Max. ambient temperature $T$ 40 °C
- Standard version for operating pressure $p_{max}$ 10 bar
- Nominal speed $n$ 2900 rpm

Motor/electronics

- Protection class IP X4
- Insulation class F
- Screwed cable connection 1x11 PG
- Nominal motor power $P_2$ 0.5500 kW
- Power consumption $P_1$ 0.9100 kW
- Mains connection 1~230 V, 50 Hz

Pipe connections

- Nominal connection diameter on the pressure side Rp 1
- Nominal connection diameter on suction side Rp 1

Materials

- Pump housing 1.4301
- Impeller Noryl
- Pump shaft 1.4057
- Mechanical seal Carbon/ceramic
- Stage chambers Noryl
- Diffuser/Injector –
- Seal NBR

Information for order placements

<table>
<thead>
<tr>
<th>Make</th>
<th>Wilo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>MP 303</td>
</tr>
<tr>
<td>Art no.</td>
<td>4032125</td>
</tr>
<tr>
<td>Weight approx.</td>
<td>9.3 kg</td>
</tr>
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</table>

Subject to change without prior notice.
Data sheet: Wilo-MultiPress MP 304 (1~230 V)

Approved fluids (other fluids on request)
- Pure water without settling sediment
- Process water, cold water, cooling water, rainwater
- Rainwater

Output
- Max. inlet pressure $H$ 6 bar
- Fluid temperature $T$ +5...+35 °C
- Max. ambient temperature $T$ 40 °C
- Standard version for operating pressure $P_{\text{max}}$ 10 bar
- Nominal speed $n$ 2900 rpm

Motor/electronics
- Protection class IP X4
- Insulation class F
- Screwed cable connection 1x11 PG
- Nominal motor power $P_1$ 0.5500 kW
- Power consumption $P_1$ 0.9100 kW
- Mains connection 1~230 V, 50 Hz

Pipe connections
- Nominal connection diameter on the pressure side Rp 1
- Nominal connection diameter on suction side Rp 1

Materials
- Pump housing 1.4301
- Impeller Noryl
- Pump shaft 1.4057
- Mechanical seal Carbon/ceramic
- Stage chambers Noryl
- Diffuser/Injector –
- Seal NBR

Information for order placements
- Make Wilo
- Type MP 304
- Art no. 4032126
- Weight approx. $m$ 9.8 kg
Data sheet: Wilo-MultiPress MP 304 (3~230/400 V)

Pump curves

n = 2900 rpm

Approved fluids (other fluids on request)

- Pure water without settling sediment
- Process water, cold water, cooling water, rainwater
- Rainwater

Output

Max. inlet pressure \( H \) 6 bar
Fluid temperature \( T \) +5...+35 °C
Max. ambient temperature \( T \) 40 °C
Standard version for operating pressure \( P_{\text{max}} \) 10 bar
Nominal speed \( n \) 2900 rpm

Motor/electronics

Protection class IP 54
Insulation class F
Screwed cable connection 1x11 PG
Nominal motor power \( P_2 \) 0.5500 kW
Power consumption \( P_1 \) 0.8400 kW
Mains connection 3~230/400 V, 50 Hz

Pipe connections

Nominal connection diameter on the pressure side Rp 1
Nominal connection diameter on suction side Rp 1

Materials

- Pump housing 1.4301
- Impeller Noryl
- Pump shaft 1.4057
- Mechanical seal Carbon/ceramic
- Stage chambers Noryl
- Diffuser/Injector –
- Seal NBR

Information for order placements

Make Wilo
Type MP 304
Art no. 4033355
Weight approx. \( m \) 9.7 kg
**Data sheet: Wilo-MultiPress MP 305 (3~230/400 V)**

**Pump curves**

n = 2900 rpm

**Dimension drawing**

**Approved fluids (other fluids on request)**

- Pure water without settling sediment
- Process water, cold water, cooling water, rainwater
- Rainwater

**Output**

- Max. inlet pressure \( H \) 6 bar
- Fluid temperature \( T \) +5...+35 °C
- Max. ambient temperature \( T \) 40 °C
- Standard version for operating pressure \( p_{\text{max}} \) 10 bar
- Nominal speed \( n \) 2900 rpm

**Motor/electronics**

- Protection class IP 54
- Insulation class F
- Screwed cable connection 1xM20 PG
- Nominal motor power \( P_2 \) 0.7500 kW
- Power consumption \( P_1 \) 1.1100 kW
- Mains connection 3~230/400 V, 50 Hz

**Pipe connections**

- Nominal connection diameter on the pressure side \( \text{Rp 1} \)

**Materials**

- Pump housing 1.4301
- Impeller Noryl
- Pump shaft 1.4057
- Mechanical seal Carbon/ceramic
- Stage chambers Noryl
- Diffuser/Injector –
- Seal NBR

**Information for order placements**

- Make Wilo
- Type MP 305
- Art no. 4149141
- Weight approx. \( m \) 14.7 kg
Data sheet: Wilo-MultiPress MP 603 (1~230 V)

Pump curves

n = 2900 rpm

Approved fluids (other fluids on request)

- Pure water without settling sediment
- Process water, cold water, cooling water, rainwater
- Rainwater

Output

- Max. inlet pressure $H$: 6 bar
- Fluid temperature $T$: +5...+35 °C
- Max. ambient temperature $T$: 40 °C
- Standard version for operating pressure $p_{\text{max}}$: 10 bar
- Nominal speed $n$: 2900 rpm

Motor/electronics

- Protection class: IP X4
- Insulation class: F
- Screwed cable connection: 1x11 PG
- Nominal motor power $P_2$: 0.5500 kW
- Power consumption $P_1$: 0.9100 kW
- Mains connection: 1~230 V, 50 Hz

Pipe connections

- Nominal connection diameter on the pressure side: Rp 1
- Nominal connection diameter on suction side: Rp 1¼

Materials

- Pump housing: 1.4301
- Impeller: Noryl
- Pump shaft: 1.4057
- Mechanical seal: Carbon/ceramic
- Stage chambers: Noryl
- Diffuser/Injector: –
- Seal: NBR

Information for order placements

- Make: Wilo
- Type: MP 603
- Art no.: 4032129
- Weight approx.: $m$: 9.3 kg
Data sheet: Wilo-MultiPress MP 603 (3~230/400 V)

Pump curves

\[ n = 2900 \text{ rpm} \]

Approved fluids (other fluids on request)

- Pure water without settling sediment
- Process water, cold water, cooling water, rainwater
- Rainwater

Output

- Max. inlet pressure \( H \) 6 bar
- Fluid temperature \( T \) +5...+35 °C
- Max. ambient temperature \( T \) 40 °C
- Standard version for operating pressure \( P_{\text{max}} \) 10 bar
- Nominal speed \( n \) 2900 rpm

Motor/electronics

- Protection class IP 54
- Insulation class F
- Screwed cable connection 1x11 PG
- Nominal motor power \( P_2 \) 0.5500 kW
- Power consumption \( P_1 \) 0.8400 kW
- Mains connection 3~230/400 V, 50 Hz

Pipe connections

- Nominal connection diameter on the pressure side Rp 1
- Nominal connection diameter on suction side Rp 1¼

Materials

- Pump housing 1.4301
- Impeller Noryl
- Pump shaft 1.4057
- Mechanical seal Carbon/ceramic
- Stage chambers Noryl
- Diffuser/Injector –
- Seal NBR

Information for order placements

- Make Wilo
- Type MP 603
- Art no. 4032130
- Weight approx. 10.2 kg
Data sheet: Wilo-MultiPress MP 604 (3~230/400 V)

Pump curves

n = 2900 rpm

Approved fluids (other fluids on request)

- Pure water without settling sediment
- Process water, cold water, cooling water, rainwater
- Rainwater

Output

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. inlet pressure</td>
<td>H 6 bar</td>
</tr>
<tr>
<td>Fluid temperature</td>
<td>T +5...+35 °C</td>
</tr>
<tr>
<td>Max. ambient temperature</td>
<td>T 40 °C</td>
</tr>
<tr>
<td>Standard version for operating pressure</td>
<td>p_{max} 10 bar</td>
</tr>
<tr>
<td>Nominal speed</td>
<td>n 2900 rpm</td>
</tr>
</tbody>
</table>

Motor/electronics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection class</td>
<td>IP 54</td>
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<tr>
<td>Insulation class</td>
<td>F</td>
</tr>
<tr>
<td>Screwed cable connection</td>
<td>1xM20 PG</td>
</tr>
<tr>
<td>Nominal motor power</td>
<td>P_2 0.7500 kW</td>
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<tr>
<td>Power consumption</td>
<td>P_1 1.1100 kW</td>
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<tr>
<td>Mains connection</td>
<td>3~230/400 V, 50 Hz</td>
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</tbody>
</table>

Pipe connections

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal connection diameter on the pressure side</td>
<td>Rp 1</td>
</tr>
</tbody>
</table>

Materials

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump housing</td>
<td>1.4301</td>
</tr>
<tr>
<td>Impeller</td>
<td>Noryl</td>
</tr>
<tr>
<td>Pump shaft</td>
<td>1.4057</td>
</tr>
<tr>
<td>Mechanical seal</td>
<td>Carbon/ceramic</td>
</tr>
<tr>
<td>Stage chambers</td>
<td>Noryl</td>
</tr>
<tr>
<td>Diffuser/Injector</td>
<td>–</td>
</tr>
<tr>
<td>Seal</td>
<td>NBR</td>
</tr>
</tbody>
</table>

Information for order placements

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make</td>
<td>Wilo</td>
</tr>
<tr>
<td>Type</td>
<td>MP 604</td>
</tr>
<tr>
<td>Art no.</td>
<td>4149168</td>
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<tr>
<td>Weight approx.</td>
<td>m 11.9 kg</td>
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</table>
### Approved fluids (other fluids on request)

<table>
<thead>
<tr>
<th>Fluid Type</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure water without settling sediment</td>
<td>•</td>
</tr>
<tr>
<td>Process water, cold water, cooling water, rainwater</td>
<td>•</td>
</tr>
<tr>
<td>Rainwater</td>
<td>•</td>
</tr>
</tbody>
</table>

### Output

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. inlet pressure $H$</td>
<td>6 bar</td>
</tr>
<tr>
<td>Fluid temperature $T$</td>
<td>$+5...+35$ °C</td>
</tr>
<tr>
<td>Max. ambient temperature $T_a$</td>
<td>$40$ °C</td>
</tr>
<tr>
<td>Standard version for operating pressure $P_{\text{max}}$</td>
<td>10 bar</td>
</tr>
<tr>
<td>Nominal speed $n$</td>
<td>2900 rpm</td>
</tr>
</tbody>
</table>

### Motor/electronics

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection class</td>
<td>IP 54</td>
</tr>
<tr>
<td>Insulation class</td>
<td>F</td>
</tr>
<tr>
<td>Screwed cable connection</td>
<td>1xM20 PG</td>
</tr>
<tr>
<td>Nominal motor power $P_2$</td>
<td>1.1000 kW</td>
</tr>
<tr>
<td>Power consumption $P_1$</td>
<td>1.5700 kW</td>
</tr>
<tr>
<td>Mains connection</td>
<td>3~230/400 V, 50 Hz</td>
</tr>
</tbody>
</table>

### Pipe connections

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal connection diameter on the pressure side</td>
<td>Rp 1</td>
</tr>
</tbody>
</table>

### Materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump housing</td>
<td>1.4301</td>
</tr>
<tr>
<td>Impeller</td>
<td>Noryl</td>
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<tr>
<td>Pump shaft</td>
<td>1.4301</td>
</tr>
<tr>
<td>Mechanical seal</td>
<td>Carbon/ceramic</td>
</tr>
<tr>
<td>Stage chambers</td>
<td>Noryl</td>
</tr>
<tr>
<td>Diffuser/Injector</td>
<td>–</td>
</tr>
<tr>
<td>Seal</td>
<td>NBR</td>
</tr>
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</table>

### Information for order placements

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make</td>
<td>Wilo</td>
</tr>
<tr>
<td>Type</td>
<td>MP 605</td>
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<tr>
<td>Art no.</td>
<td>4149188</td>
</tr>
<tr>
<td>Weight approx.</td>
<td>m = 11.3 kg</td>
</tr>
</tbody>
</table>
Pump curves

n = 2900 rpm

Approved fluids (other fluids on request)

- Pure water without settling sediment
- Process water, cold water, cooling water, rainwater
- Rainwater

Output

- Max. inlet pressure: $H = 6$ bar
- Fluid temperature: $T = +5...+35$ °C
- Max. ambient temperature: $T = 40$ °C
- Standard version for operating pressure: $P_{\text{max}} = 10$ bar
- Nominal speed: $n = 2900$ rpm

Motor/electronics

- Protection class: IP X4
- Insulation class: F
- Screwed cable connection: 1x13.5 PG
- Nominal motor power: $P_2 = 0.7500$ kW
- Power consumption: $P_1 = 1.0900$ kW
- Mains connection: 1~230 V, 50 Hz

Pipe connections

- Nominal connection diameter on the pressure side: Rp 1
- Nominal connection diameter on suction side: Rp 1

Materials

- Pump housing: 1.4301
- Impeller: Noryl
- Pump shaft: 1.4057
- Mechanical seal: Carbon/ceramic
- Stage chambers: Noryl
- Diffuser/Injector: –
- Seal: NBR

Information for order placements

- Make: Wilo
- Type: MP 305
- Art no.: 4032127
- Weight approx.: $m = 12$ kg
Data sheet: Wilo–MultiPress MP 604 (1~230 V)

Pump curves

n = 2900 rpm

Approved fluids (other fluids on request)

- Pure water without settling sediment
- Process water, cold water, cooling water, rainwater
- Rainwater

Output

- Max. inlet pressure $H$ 6 bar
- Fluid temperature $T$ +5...+35 °C
- Max. ambient temperature $T$ 40 °C
- Standard version for operating pressure $p_{max}$ 10 bar
- Nominal speed $n$ 2900 rpm

Motor/electronics

- Protection class IP X4
- Insulation class F
- Screwed cable connection 1x13.5 PG
- Nominal motor power $P_2$ 0.7500 kW
- Power consumption $P_1$ 1.0900 kW
- Mains connection 1~230 V, 50 Hz

Pipe connections

- Nominal connection diameter on the pressure side Rp 1
- Nominal connection diameter on suction side Rp 1¼

Materials

- Pump housing 1.4301
- Impeller Noryl
- Pump shaft 1.4057
- Mechanical seal Carbon/ceramic
- Stage chambers Noryl
- Diffuser/Injector –
- Seal NBR

Information for order placements

- Make Wilo
- Type MP 604
- Art no. 4032131
- Weight approx. $m$ 11.8 kg

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www.wilo.co.uk  50 Hz EU  2013–05
Data sheet: Wilo-MultiPress MP 605 (1~230 V)

Pump curves

n = 2900 rpm

Approved fluids (other fluids on request)

- Pure water without settling sediment
- Process water, cold water, cooling water, rainwater
- Rainwater

Output

Max. inlet pressure \( H \) 6 bar
Fluid temperature \( T \) +5...+35 °C
Max. ambient temperature \( T \) 40 °C
Standard version for operating pressure \( P_{\text{max}} \) 10 bar
Nominal speed \( n \) 2900 rpm

Motor/electronics

Protection class IP X4
Insulation class F
Screwed cable connection 1x13.5 PG
Nominal motor power \( P_2 \) 1.1000 kW
Power consumption \( P_1 \) 1.5100 kW
Mains connection 1~230 V, 50 Hz

Pipe connections

Nominal connection diameter on the pressure side Rp 1
Nominal connection diameter on suction side Rp 1¼

Materials

- Pump housing 1.4301
- Impeller Noryl
- Pump shaft 1.4301
- Mechanical seal Carbon/ceramic
- Stage chambers Noryl
- Diffuser/Injector –
- Seal NBR

Information for order placements

Make Wilo
Type MP 605
Art no. 4032133
Weight approx. \( m \) 14.2 kg

Subject to change without prior notice.