

Wilo-Economy-MHI



de Einbau- und Betriebsanleitung

en Installation and operating instructions

fr Notice de montage et de mise en service

nl Inbouw- en bedieningsvoorschriften

es Instrucciones de instalación y funcionamiento

it Istruzioni di montaggio, uso e manutenzione

fi Asennus- ja käyttöohje

sv Monterings- och skötselanvisning

hu Beépítési és üzemeltetési utasítás

el Οδηγίες εγκατάστασης και λειτουργίας

cs Návod k montáži a obsluze

pl Instrukcja montażu i obsługi

ru Инструкция по монтажу и эксплуатации

da Monterings- og driftsvejledning

no Monterings- og driftsveiledning

Fig. 1

MHI 2.. /4.. /8.. /16..

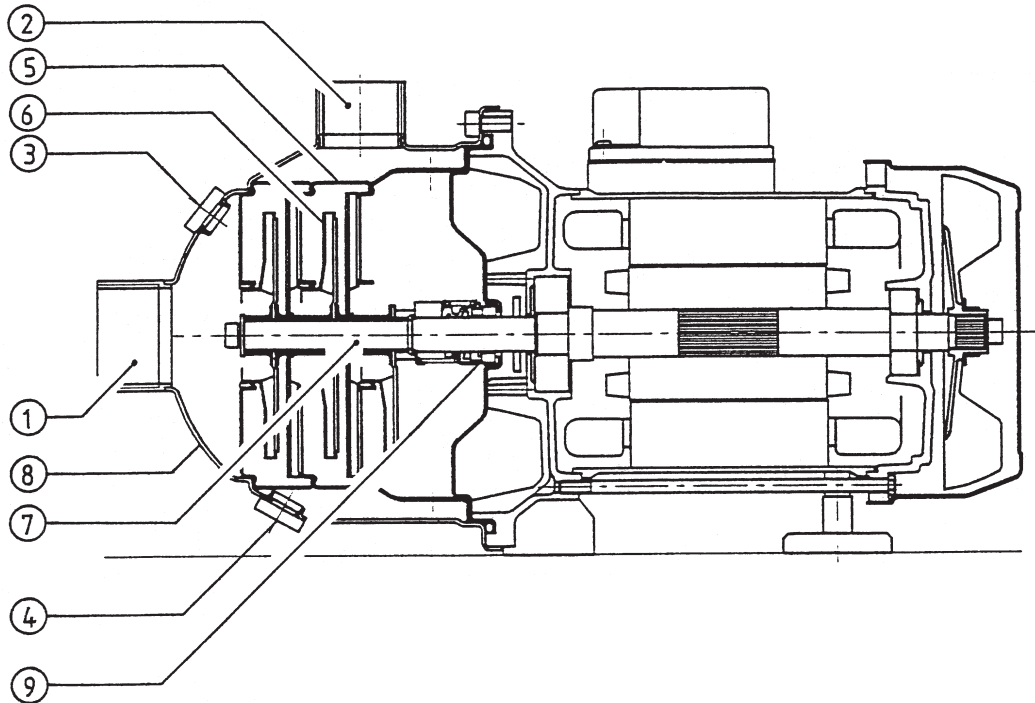


Fig. 2

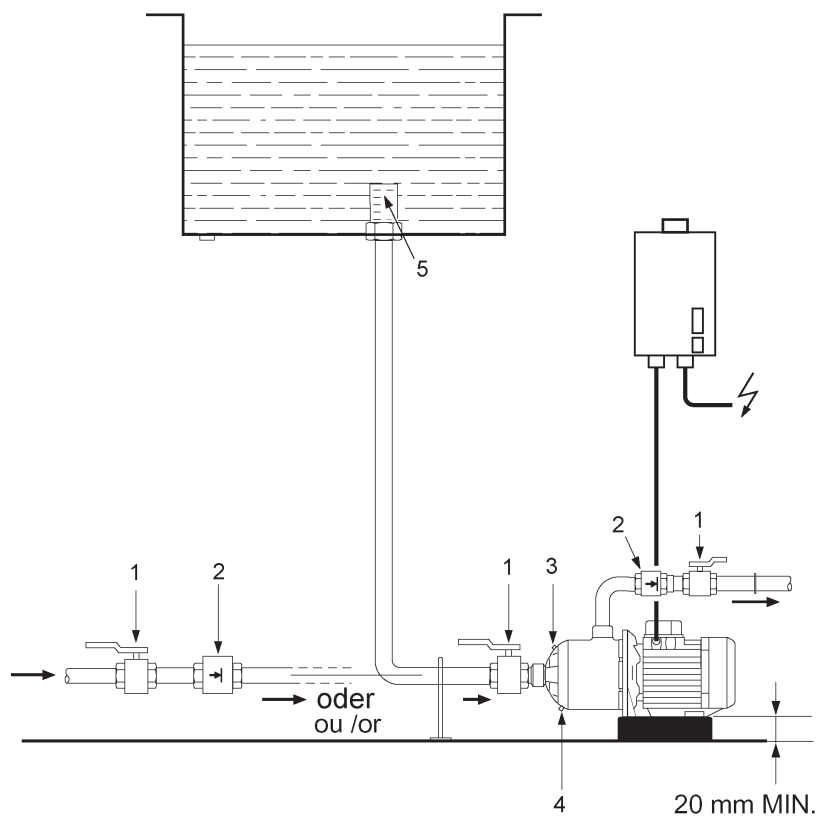


Fig. 3

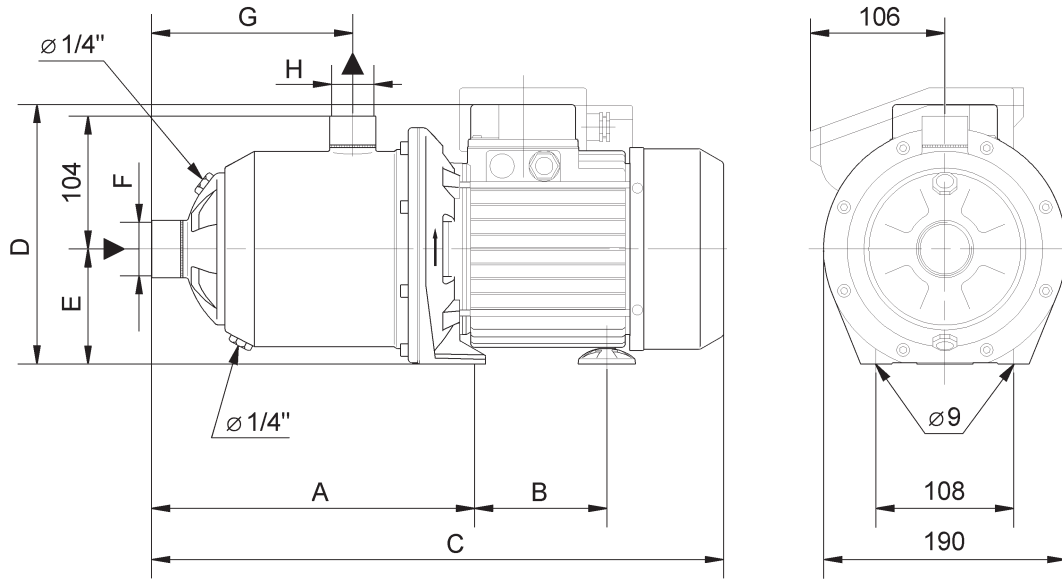
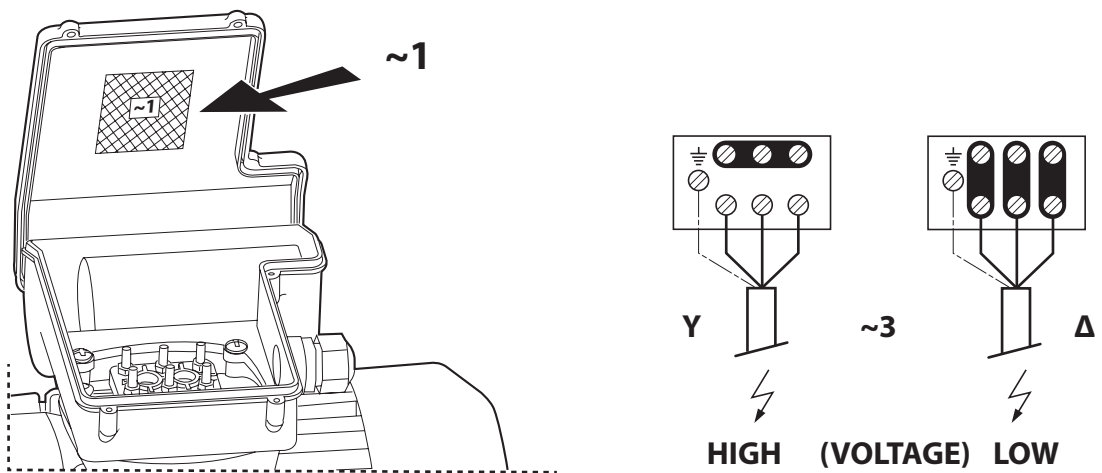


Fig. 4



| | | |
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1. Allgemeines

Über dieses Dokument

Die Sprache der Originalbetriebsanleitung ist Französisch. Alle weiteren Sprachen dieser Anleitung sind eine Übersetzung der Originalbetriebsanleitung.

Diese Einbau- und Betriebsanleitung ist Bestandteil des Produkts. Sie muss in Produktnähe und ggf. für jeden leicht zugänglich aufbewahrt werden. Das genaue Beachten dieser Anweisung ist Voraussetzung für den bestimmungsgemäßen Gebrauch und die richtige Bedienung des Produktes.

Die Einbau- und Betriebsanleitung entspricht der Ausführung des Produktes und dem Stand der zugrunde gelegten sicherheitstechnischen Normen bei Drucklegung.

1.1 Verwendungszweck

Die Pumpe wird eingesetzt zur Förderung von Trink-, Heizungs-, Brauchwasser, Kondensat, Wasser-Glykol-Gemischen bis 40 % Glykolanteil sowie anderen dünnflüssigen, mineralölfreien Medien ohne abrasive oder langfaserige Stoffe.

Haupt Einsatzgebiete sind Wasserversorgungs- und Druckerhöhungsanlagen, Kesselspeisungen, industrielle Umwälzsysteme in der Verfahrenstechnik, Kühlwasserkreisläufe, Feuerlöschsysteme sowie Wasch- und Beregnungsanlagen.

Wenn aggressive chemische Flüssigkeiten gefördert werden sollen, ist zuvor die Zustimmung des Herstellers einzuholen.

1.2 Angaben über das Erzeugnis

1.2.1 Anschluß- und Leistungsdaten

Wechselstrom:

1 ~ 230 V ($\pm 10\%$)/50 Hz oder
220 V (-10%)/60 Hz - 240 V ($+6\%$)/60 Hz

Drehstrom:

3 ~ 230 / 400 V ($\pm 10\%$) / 50 Hz oder
220/380 V (-10%)/60 Hz - 265/460 V ($+10\%$)/60 Hz

Motorleistung:

siehe Typenschild

Maximale Stromaufnahme:

siehe Typenschild

Fördermedientemperatur:

-15 °C bis 110 °C mit EPDM-Dichtungen (KTW/WRAS),

-15 °C bis 80 °C mit VITON-Dichtungen

max. zul. Betriebsdruck: 10 bar

max. zul. Druck Saugseite: 6 bar

max. Umgebungstemperatur: 40 °C

Schutzart: IP 54

Schalldruckpegel 0/+3 dB(A):

| Leistung (kW) | | | | |
|---------------|------|-----|-----|-----|
| 0.55 | 0.75 | 1.1 | 1.5 | 2.2 |
| ≤62 | ≤62 | ≤68 | ≤68 | ≤66 |

Andere Spannungen/Frequenzen und Materialqualitäten sind optional bzw. auf Anfrage lieferbar. Bei Förderung von viskosen Medien (z.B. Wasser-/Glykol-Gemische) sind die Förderdaten der Pumpe entsprechend der höheren Viskosität zu korrigieren. Bei Beimengungen von Glykol nur Markenware mit Korrosionsschutz-Inhibitoren verwenden, Herstellerangaben beachten.

Maße: siehe Tabelle und Maßbild 3.

1. General

About this document

The language of the original operating instructions is French. All other languages of these instructions are translations of the original operating instructions. These Installation and Operating Instructions form an integral part of the unit. They must be kept close to the unit and in readiness whenever required. Precise observance of these instructions is a precondition for use of the unit for the intended purpose and for its correct operation. These Installation and Operating Instructions conform to the relevant version of the equipment and the underlying safety standards valid at the time of going to press.

1.1 Applications

The pump is suitable for drinking water, heating water, industrial water, condensate, water/glycol mixtures up to a ratio of 40% glycol as well as other liquids free from mineral oil and without abrasives or long-fibred substances.

The main areas of use are in water supply installations, as a booster pump, as a boiler feed pump, in industrial circulation systems, in process technology, in cooling water systems, in fire extinguishers and in washing and sprinkler installations.

Approval from the manufacturer must be obtained beforehand if corrosive chemicals are to be pumped.

1.2 Technical description

1.2.1 Performance and electrical data

AC voltage:

1 ~ 230 V ($\pm 10\%$)/50Hz or
220 V (-10%)/60Hz – 240 V ($+6\%$)/60Hz

Rotary current voltage:

3 ~ 230/400 V ($\pm 10\%$)/50 Hz or
220/380 V (-10%)/60 Hz – 265/460 V ($+10\%$)/60 Hz

Motor power:

see rating plate,

Maximum current:

see rating plate,

Fluid temperature:

–15 °C to 110 °C with gaskets – EPDM (KTM/WRAS),
–15 °C to 80 °C version with gaskets – VITON

Max. permissible working pressure: 10 bar,

Max. permissible inlet pressure: 6 bar,

Max. ambient temperature: 40 °C,

Protective system: IP 54.

Sound pressure level 0/+3 dB(A):

| Power (kW) | | | | |
|------------|------|-----|-----|-----|
| 0.55 | 0.75 | 1.1 | 1.5 | 2.2 |
| ≤62 | ≤62 | ≤68 | ≤68 | ≤66 |

Other voltages/frequencies and material properties are optional and/or available on request.

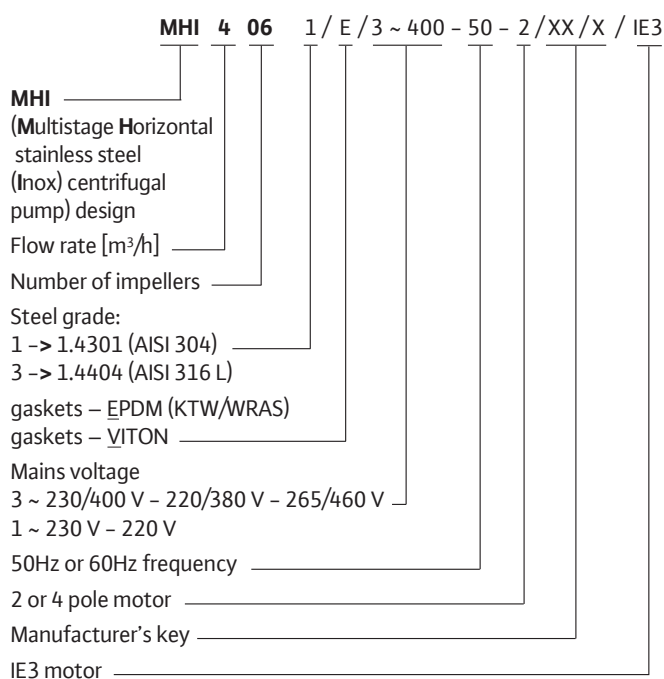
When pumping viscous fluids (e.g. water/glycol mixtures) adjust the pump data to allow for the higher viscosity.

Only use branded glycol mixtures with corrosion inhibitors and follow the manufacturers instructions. For dimensions see table and Fig. 3.

| Pump | Pump unit | | | | | | | | | | | |
|-------|------------|-----|-------|-----|-----|-----|-----|-----|-----|-------------------|-----|-------------------|
| Model | Dimensions | | | | | | | | | | | |
| | A | B | | C | | D | | E | | F | G | H |
| | | 1~ | 3~ | 1~ | 3~ | 1~ | 3~ | 1~ | 3~ | | | |
| MHI | mm | | | | | | | | | | | |
| 202 | 205 | 88 | 88 | 375 | 375 | 216 | 192 | 90 | 90 | Rp1 | 110 | Rp1 |
| 203 | 205 | 88 | 88 | 375 | 375 | 216 | 192 | 90 | 90 | Rp1 | 110 | Rp1 |
| 204 | 253 | 88 | 88 | 423 | 423 | 216 | 192 | 90 | 90 | Rp1 | 158 | Rp1 |
| 205 | 253 | 88 | 88 | 423 | 423 | 216 | 192 | 90 | 90 | Rp1 | 158 | Rp1 |
| 206 | 277 | 104 | 104 | 472 | 472 | 224 | 206 | 90 | 90 | Rp1 | 182 | Rp1 |
| 402 | 205 | 88 | 88 | 375 | 375 | 216 | 192 | 90 | 90 | Rp1 $\frac{1}{4}$ | 110 | Rp1 |
| 403 | 205 | 88 | 88 | 375 | 375 | 216 | 192 | 90 | 90 | Rp1 $\frac{1}{4}$ | 110 | Rp1 |
| 404 | 253 | 88 | 88 | 423 | 423 | 216 | 192 | 90 | 90 | Rp1 $\frac{1}{4}$ | 158 | Rp1 |
| 405 | 253 | 104 | 104 | 448 | 448 | 224 | 206 | 90 | 90 | Rp1 $\frac{1}{4}$ | 158 | Rp1 |
| 406 | 277 | 137 | 104 | 511 | 472 | 239 | 206 | 100 | 90 | Rp1 $\frac{1}{4}$ | 182 | Rp1 |
| 802 | 217 | 88 | 88 | 387 | 387 | 216 | 192 | 90 | 90 | Rp1 $\frac{1}{2}$ | 122 | Rp1 $\frac{1}{4}$ |
| 803 | 217 | 104 | 88 | 412 | 387 | 224 | 192 | 90 | 90 | Rp1 $\frac{1}{2}$ | 122 | Rp1 $\frac{1}{4}$ |
| 804 | 277 | 104 | 104 | 472 | 472 | 224 | 206 | 90 | 90 | Rp1 $\frac{1}{2}$ | 182 | Rp1 $\frac{1}{4}$ |
| 805 | 277 | - | 104 | - | 472 | - | 206 | - | 90 | Rp1 $\frac{1}{2}$ | 182 | Rp1 $\frac{1}{4}$ |
| 1602 | 237 | - | 103,5 | - | 432 | - | 206 | - | 90 | Rp2 | 138 | Rp1 $\frac{1}{2}$ |
| 1603 | 237 | - | 103,5 | - | 432 | - | 206 | - | 90 | Rp2 | 138 | Rp1 $\frac{1}{2}$ |
| 1604 | 282 | - | 136,5 | - | 515 | - | 221 | - | 100 | Rp2 | 183 | Rp1 $\frac{1}{2}$ |

When ordering spare parts, please give all the information on the rating plate.

1.2.2 Series specifications



2. Safety precautions

These instructions contain important information which must be followed when installing and operating the pump. It is therefore imperative that they be read by both the installer and the operator before the pump is installed or started up.

Both the general safety instructions in the 'Safety precautions' section and those in subsequent sections indicated by danger symbols should be carefully observed.

2.1 Danger symbols used in these operating instructions

Safety precautions in these operating instructions which, if not followed, could cause personal injury are indicated by the symbol:



Safety precautions warning of danger due to elec-



tricity are indicated by the symbol:

Safety precautions which, if not followed, could damage the pump or installation and cause it to malfunction are indicated by the word:

WARNING!

2.2 Qualified Personnel

The personnel installing the pump must have the appropriate qualifications for this work.

2.3 Risks incurred by failure to comply with the safety precautions

Failure to comply with the safety precautions could result in personal injury or damage to the pump or installation. Failure to comply with the safety precautions could also invalidate any claim for damages.

In particular, failure to comply with these safety precautions could give rise, for example, to the following risks:

- the failure of important parts of the pump or installation,
- personal injury due to electrical and mechanical causes.

2.4 Safety precautions for the operator

Existing regulations for the prevention of accidents must be followed.

To prevent the risk of electric shock or electrocution, VDE regulations and those of the local supply company must be followed.

2.5 Safety precautions for inspection and installation

The operator must ensure that all inspection and installation work is carried out by authorized and qualified specialists who have carefully studied these instructions. In principle, work should not be carried out on a running pump or installation.

2.6 Unauthorized alterations and manufacture of spare parts

Alterations to the pump or installation may only be carried out with the manufacturer's consent. The use of original spare parts and accessories authorized by the manufacturer will ensure safety. The use of other parts may invalidate claims invoking the manufacturer's liability for any consequences.

2.7 Improper use

The operational safety of the pump or installation supplied can only be guaranteed if it is used in accordance with paragraph 1 of the operating instructions. The limits given in the catalogue or data sheet must under no circumstances be exceeded.

3. Transport and storage

WARNING! During transport and in storage the pump must be protected against moisture, frost and mechanical damage.

4. Description of product and accessories

4.1 Pump description (fig. 1)

The pump is a multistage (2–6 stage) normal suction, horizontal high pressure centrifugal pump with a block design with horizontal inlet (1) and vertical pressure glands (2).

The hydraulic section is equipped with the given number of stage housings (5) and impellers (6) in a modular construction. The impellers are fitted on a single motor-pump shaft (7). The pressure casing (8) surrounding the hydraulic section guarantees a fail-safe seal. All parts in contact with the fluid, such as stage chambers, impellers and the pressure casing, are made of chromium nickel steel. The shaft hole through the pump casing is sealed to the motor with an axial face seal (9). E = All parts in contact with the fluid have been cleared by KTW and/or WRAS and are therefore suitable for use with drinking water.

The AC motors are equipped with a thermal cut-out. This switches off the motor when the permissible temperature of the motor coil is exceeded and switches it back on again automatically once it has cooled down.

Low-water protection. The pump and in particular the axial face seal must not run dry. Low-water protection should be provided by the customer by fitting the relevant parts from the Wilo range of accessories.

The speed of the pump can be controlled when connected to a frequency converter or motor filter (see paragraph 5.3)

4.2 Components supplied

- EM or DM version of pump,
- Installation and Operating Instructions

4.3 Accessories

Accessories must be ordered separately.

- WV/COL switching unit with relevant accessories for automation,
- CO-ER switching unit with relevant accessories for automation,

- Low-water protection:
 - WMS kit for direct connection to the supply pipe,
 - WAEK 65 float switch with small switching unit (only for EM version),
 - WA 65 float switch,
 - SK 277 with 3 dipped electrodes,
- WVA pressure switch,
- Wilo fluid control (EK),
- Installation switching:
 - WA 065 float switch
 - WA OEK 65 float switch with small switching unit (only for EM version).

5. Assembly and Installation

5.1 Installation

Fig. 2 shows a typical pump installation. Installation and assembly instructions, which must be observed with this type of operation, are listed as follows:

- Before installing the pump, make sure that all welding and soldering on the pipe system has been completed and that the pipe system has been completely flushed out. Foreign bodies and dirt will damage the pump.
- Install the pump in a dry place free of frost.
- Leave room for maintenance work to be carried out.
- The motor ventilator inlet must be kept clear, at least 0.30 m from the wall to the rear.
- Install in a horizontal and flat position.
- The pump must be held in place with two 8 mm diameter screws, on a vibration-absorbing base. Commercially available rubber-metal connectors can also be used to hold it in place and absorb vibrations.
- To ensure that the drain valve can be accessed, the pump must be installed with the drain valve at least 20 mm above the floor.
- Isolating valves (1) should be installed in front of and behind the pump, so that the pump can be easily changed and/or maintenance work can be carried out more easily.
- A backflow preventer (2) should be installed immediately behind the outlet pressure gland of the pump.
- The inlet and outlet pipes should be connected to the pump without stress. Flexible lengths of pipe or bellow expansion joints of restricted length can be used to ensure a low-vibration connection. The weight of the pipework must be supported.
- The customer should take suitable measures to prevent low water levels and hence guard against the pump running dry in order to protect the axial face seal. The Wilo range comprises various accessories which can be used for this purpose.
- The customer should protect the pump at the inlet pipe with a strainer (1mm mesh) or filter connection (5) to avoid the pipe being damaged by any dirt which may be sucked in.

5.2 Electrical installation



Electrical work must be carried out by a qualified and licensed electrician in strict compliance with local regulations.

- The electricity supply must be connected via a rigid supply cable fitted with a coupler or an all-pole switch with a contact gap of at least 3 mm in accordance with the local regulations in force (e.g. in accordance with the latest edition of IEE wiring regulations).
- Check the mains current and voltage.
- Ensure compliance with the data on the pump rating plate.
- Make sure the pump is earthed.
- Mains fuse: 10A time-lag fuse.
- The customer should fit rotary current motors with a motor safety switch which should be adjusted to the nominal current given on the rating plate to prevent the motor from overheating. AC motors are fitted with a thermal motor cut-out in the factory. This cuts off the pump when the permissible temperature of the motor coil is exceeded and switches it back on again automatically once it has cooled down.
- A supply cable with an adequate ample external diameter (e.g. 05 VV-F 3/5 G 1.5 or AVMH-I 3/5x1.5) should be used to protect against damp and to secure the mains lead cleat of the stuffing box.
- Connection to the mains must be carried out in accordance with the plan of terminal connections for rotary or alternating current in the terminal box of the pump (see also Fig. 4).
- Heat-resistant cable must be used if the pump is fitted in installations in which the temperature of the fluids pumped exceeds 90 °C.
- The supply cable must be laid in such a way that it never touches the pipework and/or the pump and motor casing.



If necessary a fault current breaker (FI-switch) should be provided.

5.3 Operation with frequency converter

The speed of the pump can be controlled when connected to a frequency converter.
Speed control limits: $40\%n_{nom} \leq n \leq 100\%n_{nom}$.

See Installation and Operating Instructions of the frequency converter for connection and operation. To avoid overloading the motor coil to the extent that it is damaged and to avoid increasing noise levels, the frequency converter must not produce speeds due to increased voltage of over 500 V/ μ s and spikes of $\hat{u} > 650$ V. If such speeds due to increased voltage are possible, an LC filter (motor filter) should be installed between the frequency converter and the motor. The layout of the filter must be designed by the manufacturer of the frequency converter or filter. In control devices with frequency converters supplied by Wilo, the filter is already installed.

6. Commissioning

- Check that there is a sufficient level of water in the reservoir and/or check the inlet pressure.

WARNING!

The pump must not run dry, as this would destroy the axial face seal.

- When used for the first time, if it is to be used to pump drinking water the system must be flushed through, so that any dirty water present will not contaminate the drinking water supply.
- Checking direction of rotation (only for rotary current motors): Check that the pump rotates in the direction indicated by the arrow on the pump casing by switching on for a short time. If this is not the case, interchange 2 phases in the pump terminal box.
- Only for rotary current motors: Adjust the motor cut-out to the nominal current given on the rating plate.
- If available, position float switches or electrodes for protection against low water levels in such a way that the pump cuts out if the water level is so low that air would begin to be sucked in.
- Open the isolating valve at the inlet, open the vent screw (Figs 1 & 2, 3, SW 19) until the pumped fluid comes out, close the vent screw, open the isolating valve at the outlet and switch on the pump.



- Depending on the fluid temperature and the system pressure, if the vent screw is completely loosened hot liquid or gas can escape or even shoot out at high pressure. **Beware of scalding.**



- Depending on the operating conditions of the pump or installation (fluid temperature), the entire pump may become very hot. **Avoid touching the pipe owing to the risk of burning.**

WARNING!

The pump must not run for longer than 10 minutes with a flow rate of $Q = 0 \text{ m}^3/\text{h}$. We recommend that when running continuously the pump should be kept at a minimal flow of 10 % nominal flow.

7. Maintenance

- The pump is almost maintenance free.
- During the running-in period, there may be some dripping from the axial face seal. Should a more significant leak occur as a result of substantial wear, have the axial face seal replaced by a specialist.
- Increased bearing noise and unusual vibrations indicate a worn bearing. In this case, have the bearing replaced by a specialist.
- Before carrying out any maintenance work, switch off the pump and ensure that it cannot be switched on again by unauthorized people. Never carry out work on a running pump.
- When the pump is exposed to frost or is out of service for a long period, the pump and pipework must be emptied in the cold season. Empty the pump by releasing the drain valve (Figs 1 & 2, 4), the inlet pipe by releasing the vent screw, and the outlet pipe by opening the bleeding point.

Figures:

1. Cross-section of the pump with reference numbers.
2. Positioning and pipework of the pump.
3. Drawing showing dimensions.
4. Plan of electrical connections.

8. Fault finding, causes and remedies

| Fault | Cause | Remedy |
|---|---|---|
| Pump does not run | no power | check fuses, float switches and cables |
| | motor safety switch activated | eliminate motor overload |
| Pump runs but does not pump | wrong direction of rotation | interchange two phases of the mains connection |
| | pipe or pump components blocked by foreign body | check and clean pipe and pump |
| | air in inlet pressure gland | seal inlet pressure gland |
| | inlet pipe too narrow | fit a larger inlet pipe |
| Pump does not pump evenly | inlet too high | position the pump lower |
| Pressure is insufficient | wrong choice of pump | fit a more powerful pump |
| | wrong direction of rotation | interchange two phases of the mains connection |
| | flow is too small, inlet pipe blocked | clean filter and inlet pipe |
| | valve not sufficiently open | open valve |
| | foreign body blocking the pump | clean the pump |
| Pump vibrates | foreign body in the pump | remove foreign body |
| | pump not properly fixed to the base | tighten anchor bolts |
| | base is not sufficiently heavy | fit a heavier base |
| Motor overheats, motor cut-out activates | insufficient voltage | check voltage |
| | pump sluggish: foreign body bearing damaged | clean pump have pump repaired by customer services |
| | ambient temperature too high | provide cooling |

If the fault cannot be remedied, please contact your local plumbing and heating specialist or WILO customer services.

Subject to technical alterations.

EU/EG KONFORMITÄTSERKLÄRUNG
EU/EC DECLARATION OF CONFORMITY
DECLARATION DE CONFORMITE UE/CE

Als Hersteller erklären wir hiermit, dass die Pumpenbauarten der Baureihen
We, the manufacturer, declare that the pump types of the series
Nous, fabricant, déclarons que les types de pompes des séries

MHI ...
MHI-N ...

(Die Seriennummer ist auf dem Typenschild des Produktes nach Punkten b) & c) von §1.7.4.2 und §1.7.3 des Anhanges I der Maschinenrichtlinie angegeben. / The serial number is marked on the product site plate according to points b) & c) of §1.7.4.2 and §1.7.3 of the annex I of the Machinery directive. / Le numéro de série est inscrit sur la plaque signalétique du produit en accord avec les points b) & c) du §1.7.4.2 et du §1.7.3 de l'annexe I de la Directive Machines.)

in der gelieferten Ausführung folgenden einschlägigen Bestimmungen entsprechen :
In their delivered state comply with the following relevant directives :
dans leur état de livraison sont conformes aux dispositions des directives suivantes :

_ Maschinenrichtlinie 2006/42/EG
_ Machinery 2006/42/EC
_ Machines 2006/42/CE

und gemäß Anhang 1, §1.5.1, werden die Schutzziele der Niederspannungsrichtlinie 2014/35/EU ab 20 April 2016 eingehalten
and according to the annex 1, §1.5.1, comply with the safety objectives of the Low Voltage Directive 2014/35/EU from April 20th 2016
et, suivant l'annexe 1, §1.5.1, respectent les objectifs de sécurité de la Directive Basse Tension 2014/35/UE à partir du 20/04/2016

_ Elektromagnetische Verträglichkeit-Richtlinie 2014/30/EU ab 20 April 2016
_ Electromagnetic compatibility 2014/30/EU from April 20th 2016
_ Compatibilité électromagnétique 2014/30/UE à partir du 20 avril 2016

_ Richtlinie energieverbrauchsrelevanter Produkte 2009/125/EG
_ Energy-related products 2009/125/EC
_ Produits liés à l'énergie 2009/125/CE

Nach den Ökodesign-Anforderungen der Verordnung 640/2009 für Ausführungen mit einem einstufigen Dreiphasen - 50Hz - Käfigläufer - Induktionselektromotor, der Verordnung 4/2014 "Geänderte
This applies according to eco-design requirements of the regulation 640/2009 to the versions with an induction electric motor, squirrel cage, three-phase, single speed, running at 50Hz, amended by Regulation 4/2014 "
suivant les exigences d'éco-conception du règlement 640/2009 aux versions comportant un moteur électrique à induction à cage d'écureuil, triphasé, mono-vitesse, fonctionnant à 50Hz, amendé par le règlement 4/2014"

und entsprechender nationaler Gesetzgebung,
and with the relevant national legislation,
et aux législations nationales les transposant,

sowie auch den Bestimmungen zu folgenden harmonisierten europäischen Normen :
comply also with the following relevant harmonized European standards :
sont également conformes aux dispositions des normes européennes harmonisées suivantes :

EN 809+A1

EN 60034-1
EN 60204-1

EN 60034-30-1

Bevollmächtigter für die Zusammenstellung der technischen Unterlagen ist:

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|--|--|
| <p align="center">(BG) - Български език ДЕКЛАРАЦИЯ ЗА СЪОТЕТСТВИЕ ЕО</p> <p>WILO SE декларира, че продуктите посочени в настоящата декларация съответстват на разпоредбите на следните европейски директиви и приелите ги национални законодателства:</p> <p>Машини 2006/42/ЕО ; Електромагнитна съвместимост 2014/30/ЕО ; Продукти, свързани с енергопотреблението 2009/125/ЕО</p> <p>както и на хармонизираните европейски стандарти, упоменати на предишната страница.</p> | <p align="center">(CS) - Čeština ES PROHLÁŠENÍ O SHODĚ</p> <p>WILO SE prohlašuje, že výrobky uvedené v tomto prohlášení odpovídají ustanovením níže uvedených evropských směrnic a národním právním předpisům, které je přejímají:</p> <p>Stroje 2006/42/ES ; Elektromagnetická Kompatibilita 2014/30/ES ; Výrobky spojených se spotřebou energie 2009/125/ES</p> <p>a rovněž splňují požadavky harmonizovaných evropských norem uvedených na předcházející stránce.</p> |
| <p align="center">(DA) - Dansk EF-OVERENSSTEMMELSESERKLÆRING</p> <p>WILO SE erklærer, at produkterne, som beskrives i denne erklæring, er i overensstemmelse med bestemmelserne i følgende europæiske direktiver, samt de nationale lovgivninger, der gennemfører dem:</p> <p>Maskiner 2006/42/EF ; Elektromagnetisk Kompatibilitet 2014/30/EF ; Energirelaterede produkter 2009/125/EF</p> <p>De er ligeledes i overensstemmelse med de harmoniserede europæiske standarder, der er anført på forrige side.</p> | <p align="center">(EL) - Ελληνικά ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ΕΚ</p> <p>WILO SE δηλώνει ότι τα προϊόντα που ορίζονται στην παρούσα ευρωπαϊκή δήλωση είναι σύμφωνα με τις διατάξεις των παρακάτω οδηγιών και τις εθνικές νομοθεσίες στις οποίες έχει μεταφερθεί:</p> <p>Μηχανήματα 2006/42/ΕΚ ; Ηλεκτρομαγνητικής συμβατότητας 2014/30/ΕΚ ; Συνδεδεμένα με την ενέργεια προϊόντα 2009/125/ΕΚ</p> <p>και επίσης με τα εξής εναρμονισμένα ευρωπαϊκά πρότυπα που αναφέρονται στην προηγούμενη σελίδα.</p> |
| <p align="center">(ES) - Español DECLARACIÓN CE DE CONFORMIDAD</p> <p>WILO SE declara que los productos citados en la presenta declaración están conformes con las disposiciones de las siguientes directivas europeas y con las legislaciones nacionales que les son aplicables :</p> <p>Máquinas 2006/42/CE ; Compatibilidad Electromagnética 2014/30/CE ; Productos relacionados con la energía 2009/125/CE</p> <p>Y igualmente están conformes con las disposiciones de las normas europeas armonizadas citadas en la página anterior.</p> | <p align="center">(ET) - Eesti keel EÜ VASTAVUSDEKLARATSIOONI</p> <p>WILO SE kinnitab, et selles vastavustunnistuses kirjeldatud tooted on kooskõlas alljärgnevale Euroopa direktiivide sätetega ning riiklike seadusandlustega, mis nimetatud direktiivid üle on võtnud:</p> <p>Masinaid 2006/42/EÜ ; Elektromagnetilist Ühilduvust 2014/30/EÜ ; Energiamõjuga toodete 2009/125/EÜ</p> <p>Samuti on tooted kooskõlas eelmisel leheküljel ära toodud harmoniseeritud Euroopa standarditega.</p> |
| <p align="center">(FI) - Suomen kieli EY-VAATIMUSTENMUKAISUUSVAKUUTUS</p> <p>WILO SE vakuuttaa, että tässä vakuutuksessa kuvattut tuotteet ovat seuraavien eurooppalaisten direktiivien määräysten sekä niihin sovellettavien kansallisten lakiasetusten mukaisia:</p> <p>Koneet 2006/42/EY ; Sähkömagneettinen Yhteensopivuus 2014/30/EY ; Energiaan liittyvien tuotteiden 2009/125/EY</p> <p>Lisäksi ne ovat seuraavien edellisellä sivulla mainittujen yhdenmukaistettujen eurooppalaisten normien mukaisia.</p> | <p align="center">(GA) - Gaeilge EC DEARBHÚ COMHLÍONTA</p> <p>WILO SE ndearbhaíonn an cur síos ar na táirgí atá i ráiteas seo, siad i gcomhréir leis na fórlacha atá sna treoracha seo a leanas na hEorpa agus leis na dlíthe náisiúnta is infheidhme orthu:</p> <p>Innealra 2006/42/EC ; Comhoiriúnacht Leictreamaighnéadach 2014/30/EC ; Fuinneamh a bhaineann le táirgí 2009/125/EC</p> <p>Agus siad i gcomhréir le fórlacha na caighdeáin chomhchuíbhithe na hEorpa dá dtagraítear sa leathanach roimhe seo.</p> |
| <p align="center">(HR) - Hrvatski EZ IZJAVA O SUKLADNOSTI</p> <p>WILO SE izjavlja da su proizvodi navedeni u ovoj izjavi u skladu sa sljedećim prihvaćenim europskim direktivama i nacionalnim zakonima:</p> <p>EZ smjernica o strojevima 2006/42/EZ ; Elektromagnetna kompatibilnost - smjernica 2014/30/EZ ; Smjernica za proizvode relevantne u pogledu potrošnje energije 2009/125/EZ</p> <p>i usklađenim europskim normama navedenim na prethodnoj stranici.</p> | <p align="center">(HU) - Magyar EK-MEGFELELŐSÉGI NYILATKOZAT</p> <p>WILO SE kijelenti, hogy a jelen megfélelőségi nyilatkozatban megjelölt termékek megfelelnek a következő európai irányelvek előírásainak, valamint azok nemzeti jogrendbe átültetett rendelkezéseinek:</p> <p>Gépek 2006/42/EK ; Elektromágneses összeférhetőségre 2014/30/EK ; Energiával kapcsolatos termékek 2009/125/EK</p> <p>valamint az előző oldalon szereplő, harmonizált európai szabványoknak.</p> |
| <p align="center">(IS) - Íslenska EB LEYFISYFIRLÝSING</p> <p>WILO SE lýsir því yfir að vörurnar sem um getur í þessari yfirlýsingu eru í samræmi við eftirfarandi tilskipunum ESB og landslögum hafa samþykkt:</p> <p>Vélartilskipun 2006/42/EB ; Rafseguls-samhæfni-tilskipun 2014/30/EB ; Tilskipun varðandi vörur tengdar orkunotkun 2009/125/EB</p> <p>og samhæfða evrópska staðla sem nefnd eru í fyrri síðu.</p> | <p align="center">(IT) - Italiano DICHIARAZIONE CE DI CONFORMITÀ</p> <p>WILO SE dichiara che i prodotti descritti nella presente dichiarazione sono conformi alle disposizioni delle seguenti direttive europee nonché alle legislazioni nazionali che le traspongono :</p> <p>Macchine 2006/42/CE ; Compatibilità Elettromagnetica 2014/30/CE ; Prodotti connessi all'energia 2009/125/CE</p> <p>E sono pure conformi alle disposizioni delle norme europee armonizzate citate a pagina precedente.</p> |
| <p align="center">(LT) - Lietuvių kalba EB ATITIKTIES DEKLARACIJA</p> <p>WILO SE pareiškia, kad šioje deklaracijoje nurodyti gaminiai atitinka šių Europos direktyvų ir jas perkeliančių nacionalinių įstatymų nuostatus:</p> <p>Mašinos 2006/42/EB ; Elektromagnetinis Suderinamumas 2014/30/EB ; Energija susijusiems gaminiams 2009/125/EB</p> <p>ir taip pat harmonizuotas Europas normas, kurios buvo cituotos ankstesniame puslapyje.</p> | <p align="center">(LV) - Latviešu valoda EK ATBILSTĪBAS DEKLARĀCIJU</p> <p>WILO SEdeklarē, ka izstrādājumi, kas ir nosaukti šajā deklarācijā, atbilst šeit uzskaitīto Eiropas direktīvu nosacījumiem, kā arī atsevišķu valstu likumiem, kuros tie ir ietverti:</p> <p>Mašīnas 2006/42/EK ; Elektromagnētiskās Saderības 2014/30/EK ; Enerģiju saistītiem ražojumiem 2009/125/EK</p> <p>un saskaņotajiem Eiropas standartiem, kas minēti iepriekšējā lappusē.</p> |

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| <p align="center">(MT) - Malti DIKJARAZZJONI KE TA' KONFORMITÀ</p> <p>WILO SE jiddikjara li l-prodotti speċifikati f'din id-dikjarazzjoni huma konformi mad-direttivi Ewropej li jsegu u mal-leġislazzjonijiet nazzjonali li japplikawhom:</p> <p>Makkinarju 2006/42/KE ; Kompatibiltà Elettromanjetika 2014/30/KE ; Prodotti relatati mal-enerġija 2009/125/KE</p> <p>kif ukoll man-normi Ewropej armonizzati li jsegu imsemmija fil-paġna preċedenti.</p> | <p align="center">(NL) - Nederlands EG-VERKLARING VAN OVEREENSTEMMING</p> <p>WILO SE verklaart dat de in deze verklaring vermelde producten voldoen aan de bepalingen van de volgende Europese richtlijnen evenals aan de nationale wetgevingen waarin deze bepalingen zijn overgenomen:</p> <p>Machines 2006/42/EG ; Elektromagnetische Compatibiliteit 2014/30/EG ; Energiegerelateerde producten 2009/125/EG</p> <p>De producten voldoen eveneens aan de geharmoniseerde Europese normen die op de vorige pagina worden genoemd.</p> |
| <p align="center">(NO) - Norsk EU-OVERENSSTEMMELSESERKLÆING</p> <p>WILO SE erklærer at produktene nevnt i denne erklæringen er i samsvar med følgende europeiske direktiver og nasjonale lover:</p> <p>EG-Maskindirektiv 2006/42/EG ; EG-EMV-Elektromagnetisk kompatibilitet 2014/30/EG ; Direktiv energirelaterte produkter 2009/125/EF</p> <p>og harmoniserte europeiske standarder nevnt på forrige side.</p> | <p align="center">(PL) - Polski DEKLARACJA ZGODNOŚCI WE</p> <p>WILO SE oświadcza, że produkty wymienione w niniejszej deklaracji są zgodne z postanowieniami następujących dyrektyw europejskich i transponującymi je przepisami prawa krajowego:</p> <p>Maszyn 2006/42/WE ; Kompatybilności Elektromagnetycznej 2014/30/WE ; Produktów związanych z energią 2009/125/WE</p> <p>oraz z następującymi normami europejskich zharmonizowanymi podanymi na poprzedniej stronie.</p> |
| <p align="center">(PT) - Português DECLARAÇÃO CE DE CONFORMIDADE</p> <p>WILO SE declara que os materiais designados na presente declaração obedecem às disposições das diretivas europeias e às legislações nacionais que as transcrevem :</p> <p>Máquinas 2006/42/CE ; Compatibilidade Electromagnética 2014/30/CE ; Produtos relacionados com o consumo de energia 2009/125/CE</p> <p>E obedecem também às normas europeias harmonizadas citadas na página precedente.</p> | <p align="center">(RO) - Română DECLARAȚIE DE CONFORMITATE CE</p> <p>WILO SE declară că produsele citate în prezenta declarație sunt conforme cu dispozițiile directivelor europene următoare și cu legislațiile naționale care le transpun :</p> <p>Mașini 2006/42/CE ; Compatibilitate Electromagnetică 2014/30/CE ; Produselor cu impact energetic 2009/125/CE</p> <p>și, de asemenea, sunt conforme cu normele europene armonizate citate în pagina precedentă.</p> |
| <p align="center">(RU) - русский язык Декларация о соответствии Европейским нормам</p> <p>WILO SE заявляет, что продукты, перечисленные в данной декларации о соответствии, отвечают следующим европейским директивам и национальным предписаниям:</p> <p>Директива ЕС по машинному оборудованию 2006/42/ЕС ; Директива ЕС по электромагнитной совместимости 2014/30/ЕС ; Директива о продукции, связанной с энергопотреблением 2009/125/ЕС</p> <p>и гармонизированным европейским стандартам, упомянутым на предыдущей странице.</p> | <p align="center">(SK) - Slovenčina ES VYHLÁSENIE O ZHODE</p> <p>WILO SE čestne prehlasuje, že výrobky ktoré sú predmetom tejto deklarácie, sú v súlade s požiadavkami nasledujúcich európskych direktív a odpovedajúcich národných legislatívnych predpisov:</p> <p>Strojových zariadeniach 2006/42/ES ; Elektromagnetickú Kompatibilitu 2014/30/ES ; Energeticky významných výrobkov 2009/125/ES</p> <p>ako aj s harmonizovanými európskych normami uvedenými na predchádzajúcej strane.</p> |
| <p align="center">(SL) - Slovenščina ES-IZJAVA O SKLADNOSTI</p> <p>WILO SE izjavlja, da so izdelki, navedeni v tej izjavi, v skladu z določili naslednjih evropskih direktiv in z nacionalnimi zakonodajami, ki jih vsebujejo:</p> <p>Stroji 2006/42/ES ; Elektromagnetno Združljivostjo 2014/30/ES ; Izdelkov, povezanih z energijo 2009/125/ES</p> <p>pa tudi z usklajenimi evropskih standardi, navedenimi na prejšnji strani.</p> | <p align="center">(SV) - Svenska EG-FÖRSÄKRAN OM ÖVERENSSTÄMMELSE</p> <p>WILO SE intygar att materialet som beskrivs i följande intyg överensstämmer med bestämmelserna i följande europeiska direktiv och nationella lagstiftningar som inför dem:</p> <p>Maskiner 2006/42/EG ; Elektromagnetisk Kompatibilitet 2014/30/EG ; Energirelaterade produkter 2009/125/EG</p> <p>Det överensstämmer även med följande harmoniserade europeiska standarder som nämnts på den föregående sidan.</p> |
| <p align="center">(TR) - Türkçe CE UYGUNLUK TEYİD BELGESİ</p> <p>WILO SEbu belgede belirtilen ürünlerin aşağıdaki Avrupa yönetmeliklerine ve ulusal kanunlara uygun olduğunu beyan etmektedir:</p> <p>Makine Yönetmeliği 2006/42/AT ; Elektromanyetik Uyumluluk Yönetmeliği 2014/30/AT ; Eko Tasarım Yönetmeliği 2009/125/AT</p> <p>ve önceki sayfada belirtilen uyumlaştırılmış Avrupa standartlarına.</p> | |
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