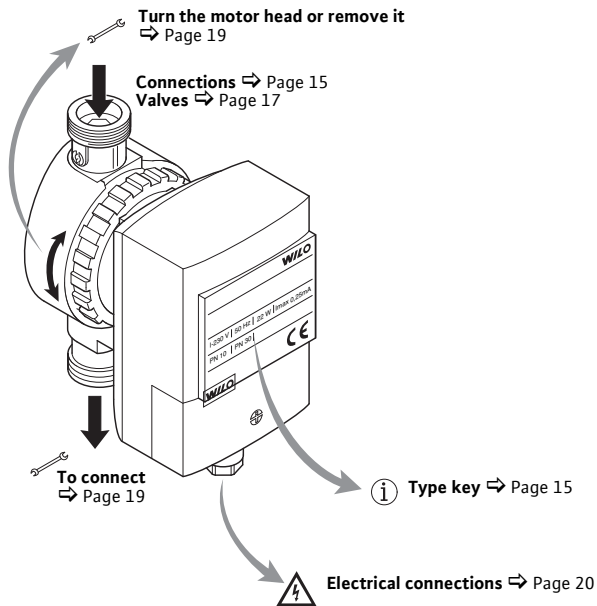



Wilo-Star-Z 15


- | | |
|--|---|
| D Einbau- und Betriebsanleitung | FIN Asennus- ja käyttöohje |
| GB Installation and operating instructions | DK Monterings- och skötselanvisning |
| F Notice de montage et de mise en service | H Beépítési és üzemeltetési utasítás |
| NL Inbouw- en bedieningsvoorschriften | PL Instrukcja montażu i obsługi |
| E Instrucciones de instalación y funcionamiento | CZ Návod k montáži a obsluze |
| I Istruzioni di montaggio, uso e manutenzione | RUS Инструкция по монтажу и эксплуатации |
| GR Οδηγίες εγκατάστασης και λειτουργίας | LV Instalēšanas un ekspluatācijas instrukcijas |
| S Monterings- och skötselanvisning | SK Návod na montáž a obsluhu |



 **Safety** ⇨ Page 13

 **Principle of operation** ⇨ Page 17

 **Installation** ⇨ Page 18

 **Fault** ⇨ Page 21

- About these instructions*
- Read through these instructions completely before attempting installation. Non-observance of the safety instructions can result in risk of injury to persons and damage to pump/unit.
 - When the installation work is complete, pass on the instructions to the end user.
 - Keep the instructions near the pump. They can be used as a reference if problems occur later.
 - We accept no liability for damage resulting from failure to follow these instructions.

Safety information The following safety information is very important:



Danger: Indicates a danger to life due to electrical voltage.



Warning: Indicates a possible danger to life or injury.



Caution: Indicates possible risks to the pump or other items.



NOTE : Highlights tips and information.

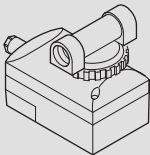
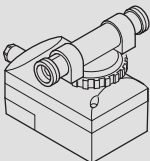
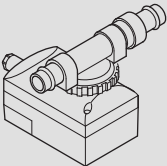
Qualification The pump may only be installed by qualified personnel. The power may only be connected by a qualified electrician.

- Regulations* The current version of the following regulations must be observed when installing the equipment:
- Accident prevention regulations
 - DVGW worksheet W551 (in Germany)
 - VDE 0370/part1
 - Other local regulations (e.g. IEC, VDE, etc.)
- Conversion, spares* The pump must not be technically modified or converted. Only use original spares.
- Transport* Unpack and check the pump and all accessories upon receipt. Report any damage in transit immediately.
Despatch the pump in the original packing only.
- Power supply* There is a danger of an electric shock when dealing with electricity. Therefore:
- switch off the power before working on the pump and make sure that it cannot be switched on again accidentally.
 - Do not kink or nip the power cable or let it come into contact with heat sources.
 - The pump has IP 42 drip-proof protection. Protect the pump against water spray. Do not immerse in water or other fluids.

3.1 Type key

Star-Z	Series: Standard drinking water circulation pump, glandless pump
15	Nominal width DN of the connecting pipe (mm) A = with shut-off valves C = with shut-off valves and ready to connect with plug clock timer
Press	with Viega crimped connection

3.2 Connections

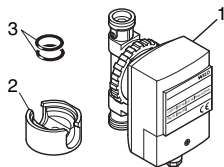
	Star-Z 15 Screwed connection: 20 (Rp1")
	Star-Z 15 A and Star-Z 15 C Screwed connection: 20 (Rp1") and shut-off valves
	Star-Z 15 APress Viega crimped connection \varnothing 15

3.3 Data

	Star-Z 15 A and Star-Z 15 C	Star-Z 15 A Press
Mains voltage	1 ~ 230 V / 50 Hz	
Protection class	IP 42	
Nominal width of connecting pipes	R 1/2	Ø 15mm
Fitting length	84 mm (type A 138 mm)	166 mm
Maximum permissible operating pressure	10 bar	
Permitted fluid tempera- ture range	20°C to 65°C, in short-term operation up to 2 hours: 70°C	

See name plate or Wilo catalogue for further information

3.4 Scope of delivery



- 1 Pump
- 2 Thermal insulation shell
- 3 Sealing rings
- 4 Installation and operating instructions (not illustrated)

4.1 Application

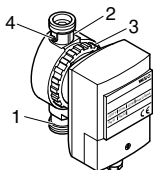
The pump is intended for pumping drinking or process water in a circulation system.

4.2 Functions

Timing function The Star-Z 15 C version also has a cable connection with plug clock timer ⇒ Page 20.

Valves The Star-Z 15 C, Star-Z 15 A and Star-Z 15 APress versions are equipped with a non-return valve (1) on the discharge side and with a stop valve (2) on the intake side.

To replace the motor head (3, it is sufficient to close the stop valve at rotating slot (4). The motor head can then be simply unscrewed ⇒ Page 19.

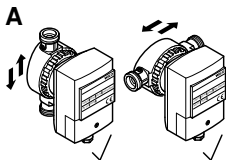


5.1 Mechanical installation



Danger: Before starting work, make sure that the pump has been disconnected from the power supply.

Installation site



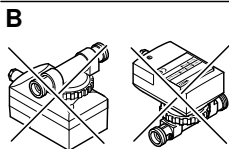
Provide a weatherproof, frost-free, dust-free and well-ventilated room for the installation. Choose an installation site that is easily accessible.



Caution: Dirt can cause pump failure. Flush the pipe system before installation.

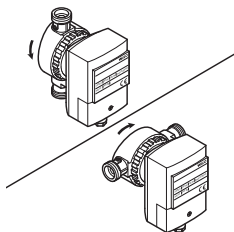


NOTE: In the case of the Star-Z 15 C, Star-Z 15 A and Star-Z 15 APress versions, the stop valve and non-return valve are pre-installed. In the case of the Star-Z 15 version, these valves have to be installed.

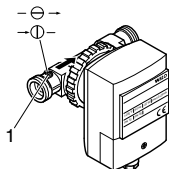


1. Prepare the installation site so that the pump can be installed without being exposed to mechanical stresses.
2. Choose the right installation position – only as shown in (Fig. A).
The arrow on the back of the housing indicates the direction of flow.

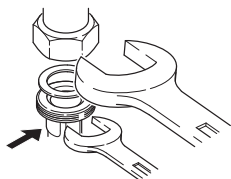
Turn the motor head
or remove it



Open the stop valve



To connect



3. Release the cap nut – unscrew it completely if necessary.

⚠ Caution: Do not damage the housing seal. Replace damaged seals.

4. Turn the motor head so that the cable screw connection points downwards.

⚠ Caution: If the position is wrong, water can penetrate and destroy the pump.

5. Tighten the cap nut again.

6. Turn slot (1) with a screwdriver so that it is parallel to the direction of flow (only in the case of the Star-Z 15 C, Star-Z 15 A and Star-Z 15 A Press versions).

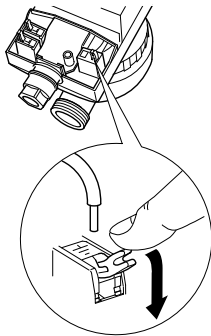
i NOTE: To close, turn the slot so that it is across the direction of flow.

7. Fit the thermal insulation shell.

8. Connect the pipework.

⚠ Caution: In the case of the versions with check valve and non-return valve, these are already pre-assembled with a tightening torque of 15 Nm (hand-tight). If the tightening torque is too high, this will destroy the valve screw connection and the O-ring. When installing the valve, use a wrench to prevent it from turning! In the case of the Star-Z 15 A Press version, only use Viega pressure clamps. Other pressure clamps would destroy the pump.

5.2 Electrical connections



Danger: Only a qualified electrician is allowed to work on the electrical connection. Before making the connection, make sure that the connecting cable is dead.

1. Install a permanent connecting cable with at 5–8 mm outside diameter with plug device or all-pole switch (with at least 3 mm contact opening width).
2. Open the connection box.
3. Guide the connecting cable through the cable connection and strip approximately 5 mm.
4. Secure the cores with the cable clips:
L phase, N neutral, ⊕ earth.
5. Tighten the cable connection firmly.
6. Close the connection box.

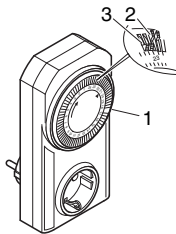
5.3 Filling and ventilation

1. Fill the system.
2. The pump rotor space vents automatically after a short time in operation. The pump will not be damaged if it runs dry briefly.

5.4 Set the time

The timer of the Star-Z 15 C versions can be set as follows:

1. Turn the time selection wheel (1) in the direction of the arrow to set the current time.
2. Switch the timer on (2) and off (3) on the time selection wheel as required.



To clean Clean the outside of the pump with a lightly moistened cloth only. Do not use detergents.

To replace the motor head



Warning: When removing the motor head or pump, hot fluid may spurt out under high pressure. Allow the pump to cool down beforehand.

Close the stop valves before removing the pump
⇒ Page 19.

Replacing the motor head ⇒ Page 19.

Order the service motor from the trade.

Fault	Cause	Remedy
Pump does not start.	Interruption in the power supply, short-circuit or defective fuses.	Have the power supply checked by a qualified electrician.
	Timing function has switched off automatically (Star-Z 15 C version only).	Check the plug clock timer setting.
	Motor is blocked, e.g. through deposits from the water mains.	Have the pump removed by a qualified person ⇒ Page 19.
Pump makes noises.	Motor scraping, e.g. through deposits from the water mains	Check that the impeller can move by turning it and rinse out the dirt that has accumulated.
	Running dry, too little water.	Check the shut-off valves, they must be fully open.



NOTE :if you cannot remedy the fault, contact the trade.

D **EG – Konformitätserklärung**
GB **EC – Declaration of conformity**
F **Déclaration de conformité CEE**

Hiermit erklären wir, dass die Bauarten der Baureihe : **Star-Z 15**

Herewith, we declare that this product:

Par le présent, nous déclarons que cet agrégat :

in der gelieferten Ausführung folgenden einschlägigen Bestimmungen entspricht:
in its delivered state complies with the following relevant provisions:
est conforme aux dispositions suivants dont il relève:

Elektromagnetische Verträglichkeit – Richtlinie
Electromagnetic compatibility – directive
Compatibilité électromagnétique– directive

89/336/EWG

i.d.F./ as amended/ avec les amendements suivants:

91/263/EWG

92/31/EWG

93/68/EWG

Niederspannungsrichtlinie
Low voltage directive
Direction basse-tension

73/23/EWG

i.d.F./ as amended/ avec les amendements suivants :

93/68/EWG

Angewendete harmonisierte Normen, insbesondere:
Applied harmonized standards, in particular:
Normes harmonisées, notamment:

EN 60335-2-51,

EN 61000-3-2,

EN 61000-3-3,

EN 61000-6-2,

EN 61000-6-4.

Dortmund, 08.12.2004





Erwin Prieß
Quality Manager



WILO AG
Nortkirchenstraße 100

44263 Dortmund

<p>NL EG-verklaring van overeenstemming Hiermede verklaren wij dat dit aggregaat in de geleverde uitvoering voldoet aan de volgende bepalingen:</p> <p>Elektromagnetische compatibiliteit 89/336/EEG als vervolg op 91/263/EEG, 92/31/EEG, 93/68/EEG</p> <p>EG-laagspanningsrichtlijn 73/23/EEG als vervolg op 93/68/EEG</p> <p>Gebruikte geharmoniseerde normen, in het bijzonder: 1)</p>	<p>I Dichiarazione di conformità CE Con la presente si dichiara che i presenti prodotti sono conformi alle seguenti disposizioni e direttive rilevanti:</p> <p>Compatibilità elettromagnetica 89/336/CEE e seguenti modifiche 91/263/CEE, 92/31/CEE, 93/68/CEE</p> <p>Direttiva bassa tensione 73/23/CEE e seguenti modifiche 93/68/CEE</p> <p>Norme armonizzate applicate, in particolare: 1)</p>	<p>E Declaración de conformidad CE Por la presente declaramos la conformidad del producto en su estado de suministro con las disposiciones pertinentes siguientes:</p> <p>Directiva sobre compatibilidad electromagnética 89/336/CEE modificada por 91/263/CEE, 92/31/CEE, 93/68/CEE</p> <p>Directiva sobre equipos de baja tensión 73/23/CEE modificada por 93/68/CEE</p> <p>Normas armonizadas adoptadas, especialmente: 1)</p>
<p>P Declaração de Conformidade CE Pela presente, declaramos que esta unidade no seu estado original, está conforme os seguintes requisitos:</p> <p>Compatibilidade electromagnética 89/336/CEE com os aditamentos seguintes 91/263/CEE, 92/31/CEE, 93/68/CEE</p> <p>Directiva de baixa voltagem 73/23/CEE com os aditamentos seguintes 93/68/CEE</p> <p>Normas harmonizadas aplicadas, especialmente: 1)</p>	<p>S CE- försäkrän Härmed förklarar vi att denna maskin i levererat utförande motsvarar följande tillämpliga bestämmelser:</p> <p>EG-Elektromagnetisk kompatibilitet – riktlinje 89/336/EEG med följande ändringar 91/263/EEG, 92/31/EEG, 93/68/EEG</p> <p>EG-Lågspänningsdirektiv 73/23/EEG med följande ändringar 93/68/EEG</p> <p>Tillämpade harmoniserade normer, i synnerhet: 1)</p>	<p>N EU-Overensstemmelseserklæring Vi erklærer hermed at denne enheten i utførelse som levert er i overensstemmelse med følgende relevante bestemmelser:</p> <p>EG-EMV-Elektromagnetisk kompatibilitet 89/336/EEG med senere tilføyelser: 91/263/EEG, 92/31/EEG, 93/68/EEG</p> <p>EG-Lavspenningsdirektiv 73/23/EEG med senere tilføyelser: 93/68/EEG</p> <p>Anvendte harmoniserte standarder, særlig: 1)</p>
<p>FIN CE-standardinmukaisuuslaseleste Ilmoittamme täten, että tämä laite vastaa seuraavia asiaankuuluvia määräyksiä:</p> <p>Sähkömagneettinen soveltuvuus 89/336/EEG seuraavien täsmennyksin 91/263/EEG 92/31/EEG, 93/68/EEG</p> <p>Matalajännitteen direktiivit: 73/23/EEG seuraavien täsmennyksin 93/68/EEG</p> <p>Käytetyt yhteensovitetut standardit, erityisesti: 1)</p>	<p>DK EF-overensstemmelseserklæring Vi erklærer hermed, at denne enhed ved levering overholder følgende relevante bestemmelser:</p> <p>Elektromagnetisk kompatibilitet: 89/336/EEG, følgende 91/263/EEG, 92/31/EEG, 93/68/EEG</p> <p>Lavvolts-direktiv 73/23/EEG følgende 93/68/EEG</p> <p>Anvendte harmoniserede standarder, særligt: 1)</p>	<p>H AK. Azonossági nyilatkozat Ezennel kijelentjük, hogy az berendezés az alábbiaknak felel meg:</p> <p>Elektromágneses zavarás/tűrés: 89/336/EEG és az azt kiegészítő 91/263/EEG, 92/31/EEG, 93/68/EEG</p> <p>Kisfeszültségű berendezések irány-Elve: 73/23/EEG és az azt kiegészítő 93/68/EEG</p> <p>Felhasznált harmonizált szabványok, különösen: 1)</p>
<p>CZ Prohlášení o shodě EU Prohlašujeme tímto, že tento agregát v dodaném provedení odpovídá následujícím příslušným ustanovením:</p> <p>Směrnícím EU-EMV 89/336/EEG v sledu 91/263/EEG, 92/31/EEG, 93/68/EEG</p> <p>Směrnícím EU-nízké napětí 73/23/EEG v sledu 93/68/EEG</p> <p>Použité harmonizační normy, zejména: 1)</p>	<p>PL Deklaracja Zgodności CE Niniejszym deklarujemy z pełną odpowiedzialnością że dostarczony wyrób jest zgodny z następującymi dokumentami:</p> <p>Odpowiedniość elektromagnetyczna 89/336/EEG ze zmianą 91/263/EEG, 92/31/EEG, 93/68/EEG</p> <p>Normie niskich napięć 73/23/EEG ze zmianą 93/68/EEG</p> <p>Wyroby są zgodne ze szczegółowymi normami zharmonizowanymi: 1)</p>	<p>RUS Декларация о соответствии Европейским нормам Настоящим документом заявляем, что данный агрегат в его объеме поставки соответствует следующим нормативным документам:</p> <p>Электромагнитная устойчивость 89/336/EEG с поправками 91/263/EEG, 92/31/EEG, 93/68/EEG</p> <p>Директивы по низковольтному напряжению 73/23/EEG с поправками 93/68/EEG</p> <p>Используемые согласованные стандарты и нормы, в частности: 1)</p>
<p>GR Δήλωση προσαρμογής της Ε.Ε. Δηλώνουμε ότι το προϊόν αυτό σ' αυτή την κατάσταση παράδοσης ικανοποιεί τις ακόλουθες διατάξεις:</p> <p>Ηλεκτρομαγνητική συμβατότητα ΕΓ-89/336/ΕΕΓ όπως τροποποιήθηκε 91/263/ΕΕΓ 92/31/ΕΕΓ, 93/68/ΕΕΓ</p> <p>Οδηγία χαμηλής τάσης ΕΓ-73/23/ΕΕΓ όπως τροποποιήθηκε 93/68/ΕΕΓ</p> <p>Εναρμονισμένα χρησιμοποιούμενα πρότυπα, ιδιαίτερα: 1)</p>	<p>TR EC Uygunluk Teyid Belgesi Bu cihazın teslim edildiği şekliyle aşağıdaki standartlara uygun olduğunu teyid ederiz:</p> <p>Elektromanyetik Uyumluluk 89/336/EEG ve takip eden, 91/263/EEG, 92/31/EEG, 93/68/EEG</p> <p>Açık gerilim direktifi 73/23/EEG ve takip eden, 93/68/EEG</p> <p>Kisimen kullanılan standartlar: 1)</p>	<p>1) EN 60335-2-51, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-4.</p>
<div style="text-align: center;">  Erwin Prieb Quality Manager </div> <div style="text-align: right; margin-top: 20px;">  WILO AG Nortkirchenstraße 100 44263 Dortmund </div>		

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