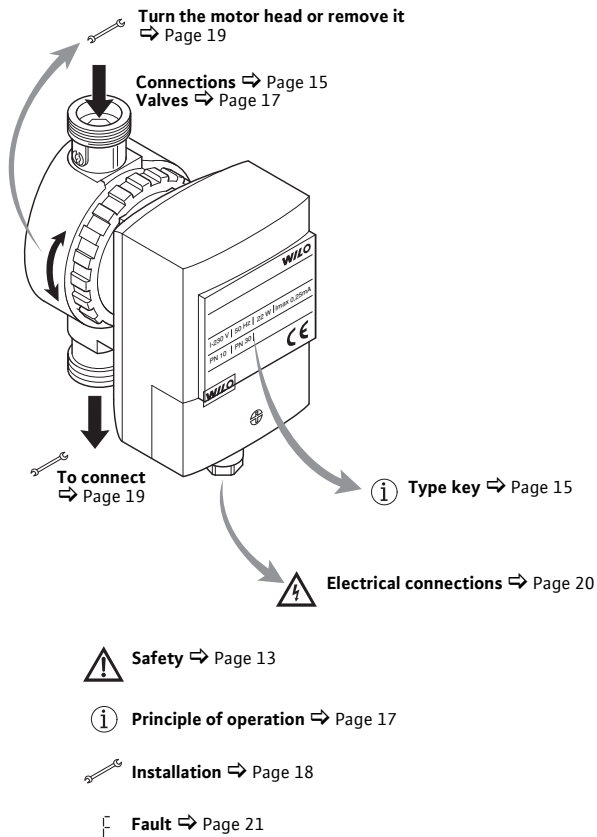


Wilo-Star-Z 15

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



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.

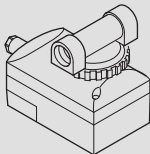
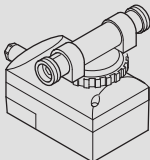
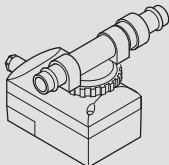
Safety

- 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 Ø 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

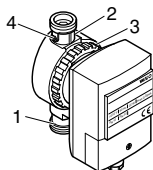
The pump is intended for pumping drinking or process water in a circulation system.

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.

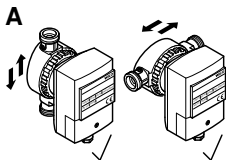


5.1 Mechanical installation



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

Installation site



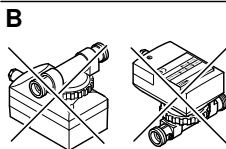
Provide a weatherproof, frost-free, dust-free and well-ventilated room for the installation. Choose an installation site that is easily accessible.



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

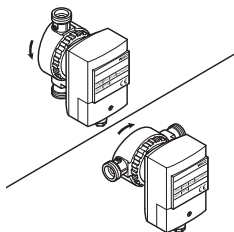


NOTE: In the case of the Star-Z 15 C, Star-Z 15 A and Star-Z 15 APress versions, the stop valve and non-return valve are pre-installed. In the case of the Star-Z 15 version, these valves have to be installed.

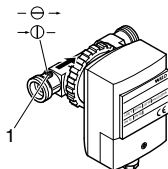


1. Prepare the installation site so that the pump can be installed without being exposed to mechanical stresses.
2. Choose the right installation position – only as shown in (Fig. A).
The arrow on the back of the housing indicates the direction of flow.

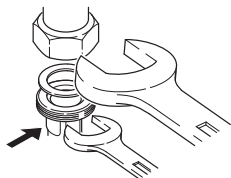
Turn the motor head
or remove it



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 APress versions).



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.

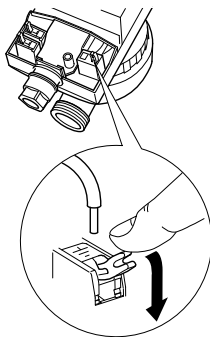


Caution: In the case of the versions with check valve and non-return valve, these are already pre-assembled with a tightening torque of 15 Nm (hand-tight). If the tightening torque is too high, this will destroy the valve screw connection and the O-ring.

When installing the valve, use a wrench to prevent it from turning!

In the case of the Star-Z 15 APress version, only use Viega pressure clamps. Other pressure clamps would destroy the pump.

5.2 Electrical connections



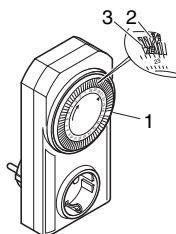
Danger: Only a qualified electrician is allowed to work on the electrical connection. Before making the connection, make sure that the connecting cable is dead.

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 before-hand.

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

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



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January 2008

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