

Wilo-Varios PICO-STG



**The most versatile replacement pump of all time.**

The Wilo-Varios PICO-STG is the universal replacement solution in the heating, air conditioning and cooling sector for residential dwellings, as well as for solar and geothermal installations. It offers either standard mode or external control mode, and the settings of the pump it replaces can be easily imported using the Sync assistant. Its compact construction and the adoption of characteristic curves from the old pump with the new synchronisation function make installation and commissioning particularly easy. And with the Green Button Technology the operability is highly convenient.

Recommended services**System Optimisation****Energy Solutions****Your advantages**

- > The most compatible replacement solution for all applications, including solar and geothermal energy, thanks to compact design, innovative control modes (such as iPWM) and the Sync assistant in the Wilo-Assistant app
- > Maximum operating convenience thanks to its LED display and Green Button Technology featuring a button for control mode and a button for setting the pump
- > Easy installation owing to a compact design, adjustable electrical connections and maintenance functions such as venting
- > Maximum operational reliability based on proven technology

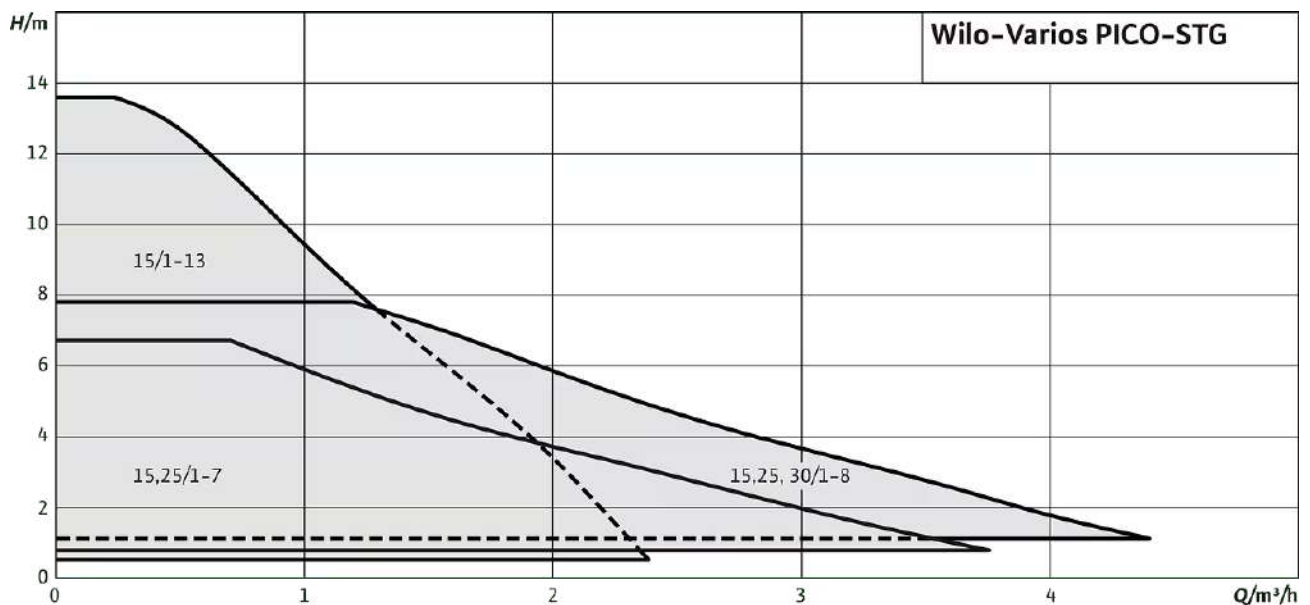


Product features

- 1 Compact, standardised design
- 2 Direct access to the motor screws
- 3 Cataphoresis pump housing
- 4 Dual Electrical connection (Molex type & Wilo-Connector)
- 5 LED-Screen
- 6 Pressure buttons for control mode setting
- 7 Faults reported as error codes
- 8 Sync assistant, pump venting, manual restart

Eco-friendly features

- > High-efficiency pump with automatic power adjustment ($EEI \leq 0.20$)
- > Sustainable and carbon-neutral production and processes in our European factories



Design

Glandless circulator with screwed connection, blocking-current proof EC motor and integrated electronic power control.

Application

All hot-water heating systems, air-conditioning applications, industrial circulation systems, primary circuits of solar and geothermal systems.

Equipment/function

Operating modes

- > Constant differential pressure (3 pre-defined characteristic curves)
- > Variable differential pressure (3 pre-defined characteristic curves)
- > Constant speed (3 speed stages)
- > External control by iPWM signal
 - > iPWM GT (heating/geothermal energy, not for Varios PICO-STG .../1-13)
 - > iPWM ST (Solar)

Manual functions

- > Setting the operating mode in accordance with the application
- > Setting of pump output (curve)
- > Setting the constant speed
- > Activation of sync function and LED coding
- > Pump venting function
- > Manual restart

Automatic functions

- > Automatic restart

Signal and display functions

- > Display of selected control mode
- > Display of selected stage of control mode or iPWM type
- > Display of activated sync function and LED coding
- > Status display of the manual restart or pump venting function
- > Operation and fault display

Equipment

- > Cataphoretically-coated pump housing
- > Wrench attachment point on pump body
- > Electrical connection cable with 3-pole pump plug and Wilo-Connector
- > iPWM connection
- > Pump venting function
- > Manual restart
- > Blocking-current proof motor
- > Particle filter

Technical data

- > Fluid temperature -20 °C to +110 °C
- > Mains connection: 1~230 V, 50 Hz
- > Protection class: IPX4D
- > Screwed connection: G1, G1½, G2
- > Max. operating pressure: 10 bar

Materials

- > Pump housing: Grey cast iron (EN-GJL-200)
- > Impeller: Plastic (PP - 40% GF)
- > Pump shaft: Stainless steel
- > Bearing: carbon, metal impregnated

Scope of delivery

- > Pump
- > Mains connection cable with 3-pole pump plug and Wilo-Connector connection
- > Wilo-Connector
- > Gaskets for threaded connection
- > Installation and operating instructions

Options

- > Varios PICO-STG ...-130 versions with short port-to-port length of 130 mm

Accessories

- > Screwed connections
- > Adapter fittings
- > Thermal insulation
- > iPWM signal cable
- > Wilo-Connector with 2 m connection cable and shockproof plug
- > Angle plug with 2 m connection cable

Product list

| Product description | Pump connection | EEI | Port-to-port length <i>L₀</i> | Maximum operating pressure <i>P_N</i> | Mains connection | Gross weight, approx. <i>m</i> | Pieces per pallet | Article number |
|-----------------------------|-----------------|-------|--|---|-------------------|--------------------------------|-------------------|----------------|
| Varios PICO-STG 15/1-7 | G 1 | ≤0.20 | 130 mm | 10 bar | 1~230 V, 50/60 Hz | 1.8 kg | 198 | 4215540 |
| Varios PICO-STG 15/1-8 | G 1 | ≤0.23 | 130 mm | 10 bar | 1~230 V, 50/60 Hz | 2 kg | 198 | 4232742 |
| Varios PICO-STG 15/1-13 | G 1 | ≤0.23 | 130 mm | 10 bar | 1~230 V, 50/60 Hz | 2 kg | 198 | 4232746 |
| Varios PICO-STG 15/1-13-180 | G 1 | ≤0.23 | 180 mm | 10 bar | 1~230 V, 50/60 Hz | 2.1 kg | 198 | 4232747 |
| Varios PICO-STG 25/1-7 | G 1½ | ≤0.20 | 180 mm | 10 bar | 1~230 V, 50/60 Hz | 2.1 kg | 198 | 4215542 |
| Varios PICO-STG 25/1-7-130 | G 1½ | ≤0.20 | 130 mm | 10 bar | 1~230 V, 50/60 Hz | 1.9 kg | 198 | 4215541 |
| Varios PICO-STG 25/1-8 | G 1½ | ≤0.23 | 180 mm | 10 bar | 1~230 V, 50/60 Hz | 2.3 kg | 198 | 4232743 |
| Varios PICO-STG 25/1-8-130 | G 1½ | ≤0.23 | 130 mm | 10 bar | 1~230 V, 50/60 Hz | 2 kg | 198 | 4232744 |
| Varios PICO-STG 30/1-8 | G 2 | ≤0.23 | 180 mm | 10 bar | 1~230 V, 50/60 Hz | 2.4 kg | 198 | 4232745 |

WILO SE
Wilopark 1
44263 Dortmund
Germany
T +49 231 4102-0
F +49 231 4102-7363
wilo@wilo.com
www.wilo.com