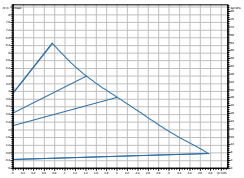
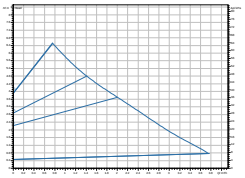


Varios PICO-STG 25/1-7

Glandless pump circulator

Article number: 4215542

Replacement recommendation

	Glandless high-efficiency pump	Existing pump
		
		

Description

Product description	Varios PICO-STG 25/1-7	Varios PICO-STG 25/1-7
Article number	4215542	4215542
Series	Varios PICO-STG	Varios PICO-STG
Mains connection	1~230 V ±10%, 50/60 Hz	1~230 V ±10%, 50/60 Hz
Pump connection	G 1½	G 1½
Pump connection (alternative designation)	RP 1	RP 1
	DN 25	DN 25
Display	LED coding display	LED coding display

Comment	Fits without modifications	Fits without modifications
Port-to-port length *l0*	180 mm	180 mm

Operating data

Standard	-	-

Function

Control mode	Δ p-v for variable differential pressure (3 pump curves)	Δ p-v for variable differential pressure (3 pump curves)
	Constant speed (3 speed stages)	Constant speed (3 speed stages)
	Δ p-c for constant differential pressure (3 pump curves)	Δ p-c for constant differential pressure (3 pump curves)
	External control via iPWM signal	External control via iPWM signal
Special features of the series	Sync function for optimised pump cycling adjustment	Sync function for optimised pump cycling adjustment
Display	Fault signals (error codes)	Fault signals (error codes)
	Manually activated restart or pump venting function	Manually activated restart or pump venting function
Pump venting function	Manual	Manual

Equipment

Thermal insulation shell	As accessory	As accessory
Quick electrical connection	Wilo Connector	Wilo Connector
Operating elements	Green push button	Green push button

Motor data

Energy efficiency index (EEI) {$footnote=footnote1}	≤ 0.20	≤ 0.20
Rated power P_2	38 W	38 W
Min. speed n_{min}	2340 1/min	2340 1/min

Max. speed n_{max}	4366 1/min	4366 1/min
Power consumption $P_{1\ min}$	1 W	1 W
Power consumption $P_{1\ max}$	50 W	50 W
Emitted interference	EN 61000-6-3	EN 61000-6-3
Interference resistance	EN 61000-6-2	EN 61000-6-2
Electromagnetic compatibility	EN 61800-3	EN 61800-3
Insulation class	F	F
Protection class	IPX4D	IPX4D
Phases	1	1
Mains connection	1~230 V, 50/60 Hz	1~230 V, 50/60 Hz

Materials

Impeller	PP-GF40	PP-GF40
Shaft	Stainless steel	Stainless steel
Bearing	Carbon, metal-impregnated	Carbon, metal-impregnated
Material	Grey cast iron	Grey cast iron

Pipe connection

Inlet connection	G 1½	G 1½
PN connection on suction side	PN 10	PN 10
Outlet connection	G 1½	G 1½
PN connection on discharge side	PN 10	PN 10

Dimension, weight

Length with packaging	194 mm	194 mm
Length *L*	180 mm	180 mm

Height with packaging	105 mm	105 mm
Height *H*	94 mm	94 mm
Width with packaging	174 mm	174 mm
Width *W*	126 mm	126 mm
Gross weight, approx. *m*	2.1 kg	2.1 kg
Net weight, approx. *m*	1.8 kg	1.8 kg

Ordering information

Product description	Varios PICO-STG 25/1-7	Varios PICO-STG 25/1-7
Brand	Wilo	Wilo
EAN number	4048482792156	4048482792156
Article number	4215542	4215542

Data sheet

Hydraulic data

Maximum operating pressure *PN*	10 bar
Head max H_{max}	6.7 m
Flow max Q_{max}	3.8 m³/h
Minimum suction head at 50 °C *m*	0.5 m
Minimum suction head at 95 °C *m*	3 m
Minimum suction head at 110 °C	10 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C

Hydraulic data

Min. ambient temperature T_{min}	-10 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI) *	≤ 0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Rated power P_2	38 W
Min. speed n_{min}	2340 1/min

Motor data

Max. speed n_{max}	4366 1/min
Power consumption P_1 min	1 W
Power consumption P_1 max	50 W
Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Electromagnetic compatibility	EN 61800-3
Threaded cable connection	1 x PG11
Insulation class	F
Protection class	IPX4D

* The benchmark for the most efficient circulators is EEI ≤ 0.20

Materials

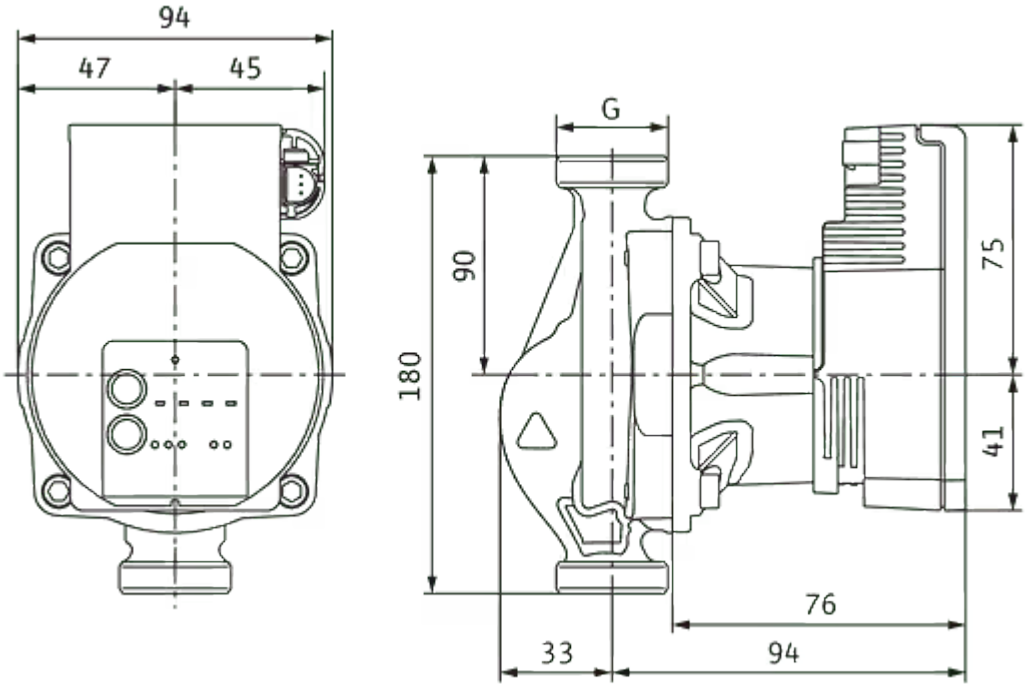
Pump housing	Grey cast iron
Impeller	PP-GF40
Shaft	Stainless steel
Bearing	Carbon, metal-impregnated

Installation dimensions

Pump connection	G 1½
Pump connection (alternative designation)	RP 1 DN 25
Port-to-port length *L0*	180 mm

Dimensions and dimensions drawings

Varios PICO-STG 25/1-7



Tender text

High-efficiency pump Wilo-Varios PICO-STG, electronically controlled. Maintenance-free glandless circulator with screwed connection, blocking-current proof synchronous motor according to ECM technology and built-in electronic power control for variable differential pressure control. Can be used for all heating and air-conditioning applications, as well as for solar and geothermal systems.

Standard-equipped with:

- Preselectable control modes for optimum load adjustment:
  - Differential pressure constant (Δp-c), 3 predefined pump curves
  - Differential pressure variable (Δp-v), 3 predefined pump curves
  - Constant speed (3 speed stages)
  - External control by iPWM GT (Heating/Geothermal) or iPWM ST (Solar) signal
- Sync function (manual programming mode) for reprogramming the pump in the event of replacement
- Manual pump venting function for venting the rotor chamber
- Manual restart
- LED display
  - Display of selected control mode und pump curve
  - Status display during venting and manual restart
  - LED coding during the sync function
  - Operation and fault display
- Integrated motor protection
- Automatic deblocking function
- Electrical connection cable with 3-pole plug connection and Wilo-Connector
- PWM connection
- Cataphoretically-coated pump housing

Operating data

Min. fluid temperature T_{min}	-20 °C

Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-10 °C
Max. ambient temperature T_{max}	40 °C
Maximum operating pressure *PN*	10 bar
Minimum suction head at 50 °C *m*	0.5 m
Minimum suction head at 95 °C *m*	3 m
Minimum suction head at 110 °C	10 m

Motor data

Energy efficiency index (EEI) *	≤ 0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Rated power P_2	38 W
Min. speed n_{min}	2340 1/min
Max. speed n_{max}	4366 1/min
Power consumption P_1 min	1 W
Power consumption P_1 max	50 W
Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Electromagnetic compatibility	EN 61800-3

Motor data

Insulation class	F
Protection class	IPX4D
Threaded cable connection	1 x PG11

* The benchmark for the most efficient circulators is EEI ≤ 0.20

Materials

Pump housing	Grey cast iron
Impeller	PP-GF40
Shaft	Stainless steel
Bearing	Carbon, metal-impregnated

Installation dimensions

Pump connection	G 1½
Pump connection (alternative designation)	RP 1 DN 25
Port-to-port length *L0*	180 mm

Ordering information

Brand	Wilo
Product description	Varios PICO-STG 25/1-7
Net weight, approx. *m*	1.8 kg
Article number	4215542

Mechanical accessories

Product description	Article number
Screwed connection Rp 1 x G 1½, 72 Set	112047298
Screwed connection Rp 1 x G 1½, 1 Set	4092741
Adapter G 1½/G 2	4105914
Threaded adapter R 2, GG	110626790
Threaded adapter R 6, GG	110678493
Threaded adapter R 1, GG	110786891
Threaded adapter R 7, GG	110787094
Threaded adapter R 24, GG	110880596
Flanged ring RF 7, PN6	110628790
Flanged ring RF 9, PN6	110679395
Flanged ring RF 13, PN6	110679498
Flanged ring RF 10, PN6	110851499
Thermal insulation shell	4206066

Electrical accessories

Product description	Article number
Switchgear SK 601N	2120443
Angle plug	4150229
PWM signal cable	4193901
Bidirectional iPWM control cable	4222049
Wilo-Connector	4200870