

NEW

Star-Z NOVA1.0

Glandless pump circulator

Article number: [4272900](#)

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Delivery head for Q_{min} $H_{Q_{min}}$	1.0 m
Max. volume flow Q_{max}	0.4 m ³ /h
Min. fluid temperature T_{min}	2 °C
Max. fluid temperature T_{max}	95 °C
Min. ambient temperature T_{min}	2 °C
Max. ambient temperature T_{max}	40 °C
Max. permitted total water hardness	3.57 mmol/l (20°dH)

Motor data

Rated current I_N	0.05 A
Max. speed n_{max}	3000 1/min
Power consumption $P_{1 min}$	3 W
Power consumption $P_{1 max}$	5 W
Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Protection class motor	IP42
Insulation class	F
Threaded cable connection	1 x PG11
Motor protection	no

Motor data

Mains connection	1~230 V, 50 Hz
Rated power P_2	5 W

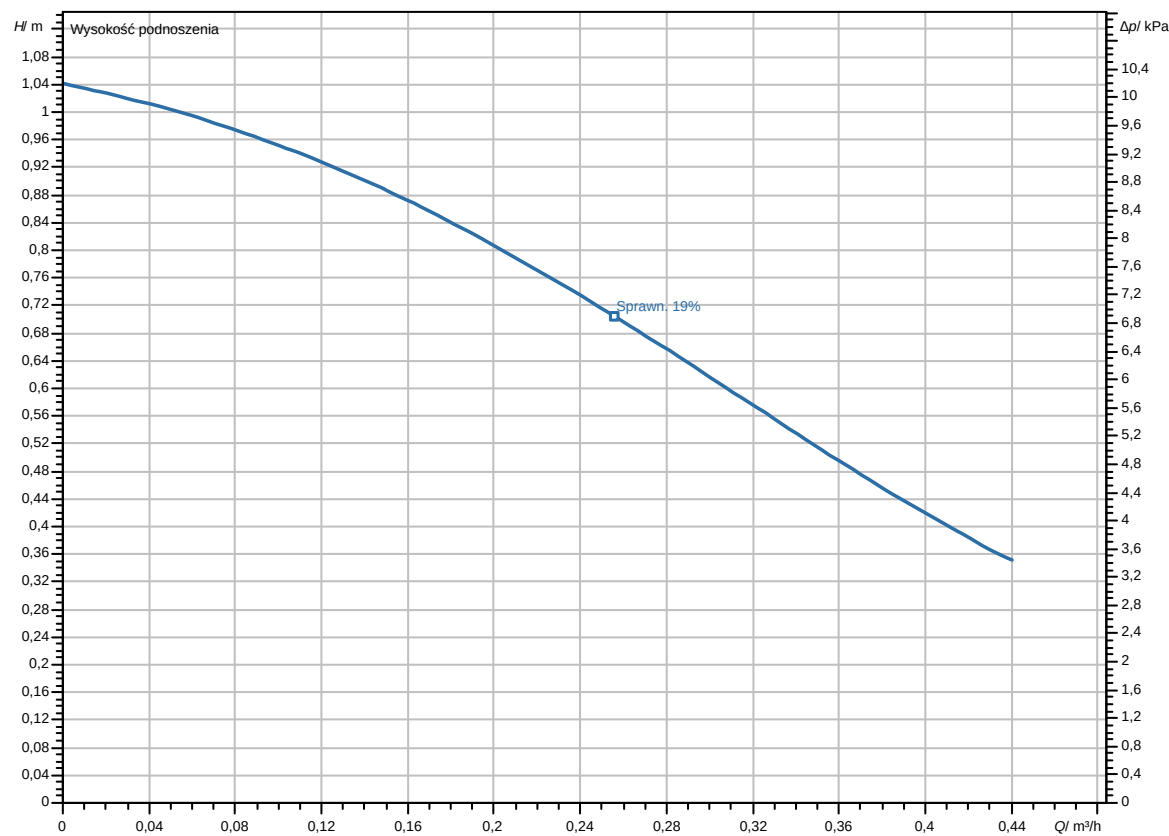
Materials

Pump housing	Brass, CW617N
Impeller	PPE/PS-GF30
Shaft	Ceramic
Bearing	Carbon, synthetic resin-impregnated

Installation dimensions

Port-to-port length $L0$	84 mm
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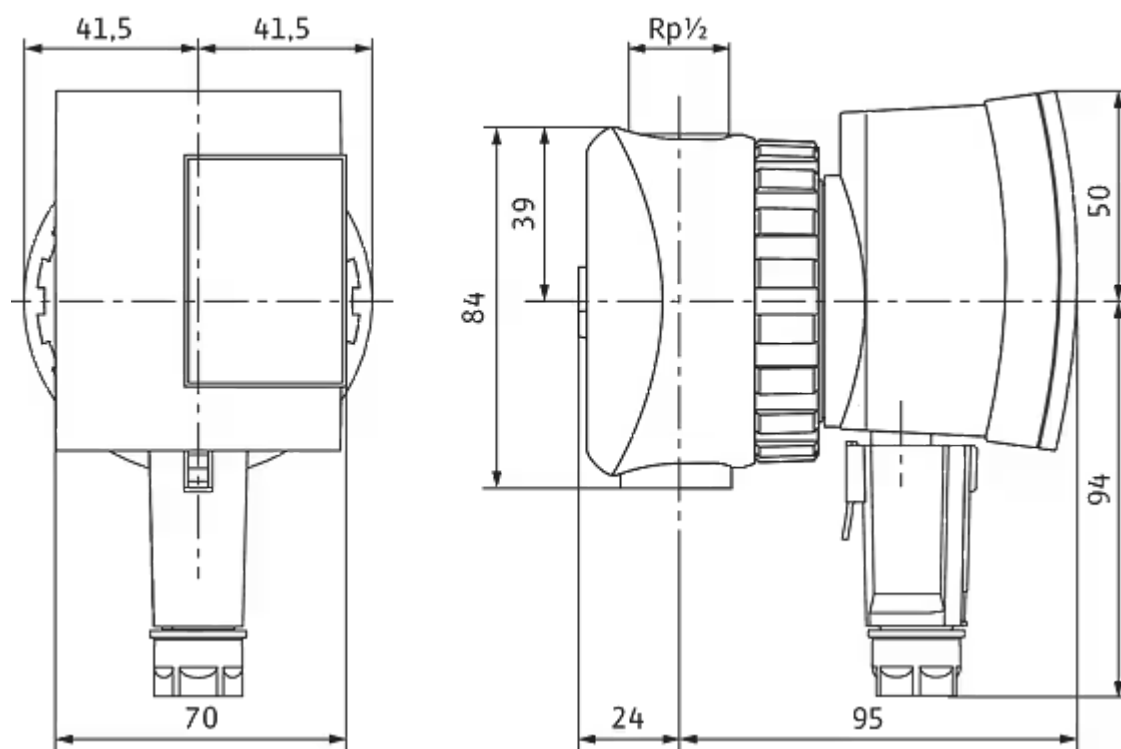
Pump curves



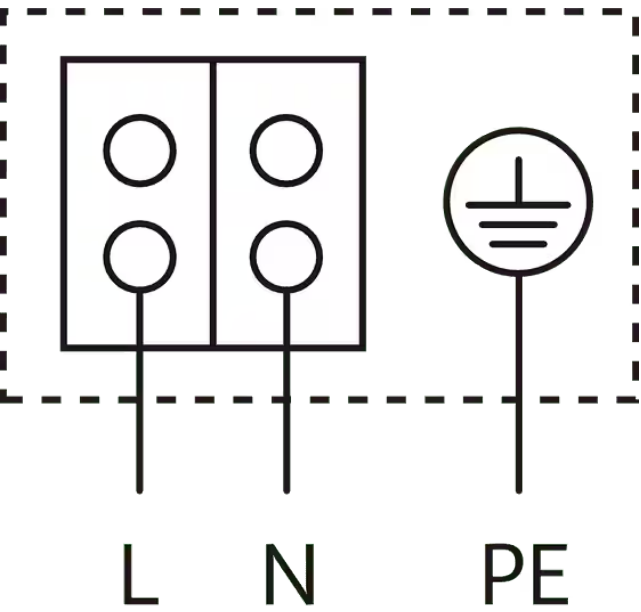
Fluid media	Water 100 %
Fluid temperature T	20,00 °C

Dimensions and dimensions drawings

Star Z-NOVA



Wiring diagram



Blocking current-proof motor
Single-phase motor (EM) 2-pole - 1~230 V, 50 Hz

Tender text

This circulator is suitable only for drinking water.
Wilo-Star-Z NOVA1.0 domestic hot water circulator (glandless pump version) for single-family houses.
Pump for pipe installation, blocking-current proof synchronous motor with high starting torque.
Brass pump housing, Noryl impeller, ceramic shaft.
Power consumption of 3 – 5 W.
Equipped with thermal insulation shell as standard, housing thread Rp ½.

Operating data

Max. fluid temperature $T_{\max}$	95 °C
Min. fluid temperature $T_{\min}$	2 °C
Min. ambient temperature $T_{\min}$	2 °C
Max. ambient temperature $T_{\max}$	40 °C

Operating data

Temperature range at max. ambient temperature +40 °C T	+2...+65 °C
Maximum operating pressure P_N	10 bar
Max. permitted total water hardness	3.57 mmol/l (20°dH)

Motor data

Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Mains connection	1~230 V, 50 Hz
Power consumption $P_{1\max}$	5 W
Max. speed $n_{\max}$	3000 1/min
Rated current I_N	0.05 A
Protection class motor	IP42
Threaded cable connection	1 x PG11

Materials

Pump housing	Brass, CW617N
Impeller	PPE/PS-GF30
Shaft	Ceramic
Bearing	Carbon, synthetic resin-impregnated

Installation dimensions

Pump connection	Rp ½
Port-to-port length L_0	84 mm

Ordering information

Brand	Wilo
Product description	Star-Z NOVA1.0
Net weight, approx. m	0.8 kg
Article number	4272900