



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}	1.6 m ³ /h
Min. fluid temperature T_{min}	2 °C
Max. fluid temperature T_{max}	65 °C
Min. ambient temperature T_{min}	0 °C
Max. ambient temperature T_{max}	40 °C
Max. permitted total water hardness	3.21 mmol/l (18°dH)

Motor data

Mains connection	1~230 V, 50 Hz
Rated current I_N	0.14 A
Power consumption $P_{1 max}$	30 W
Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Protection class motor	IP44
Insulation class	F
Threaded cable connection	1 x PG11
Motor protection	no

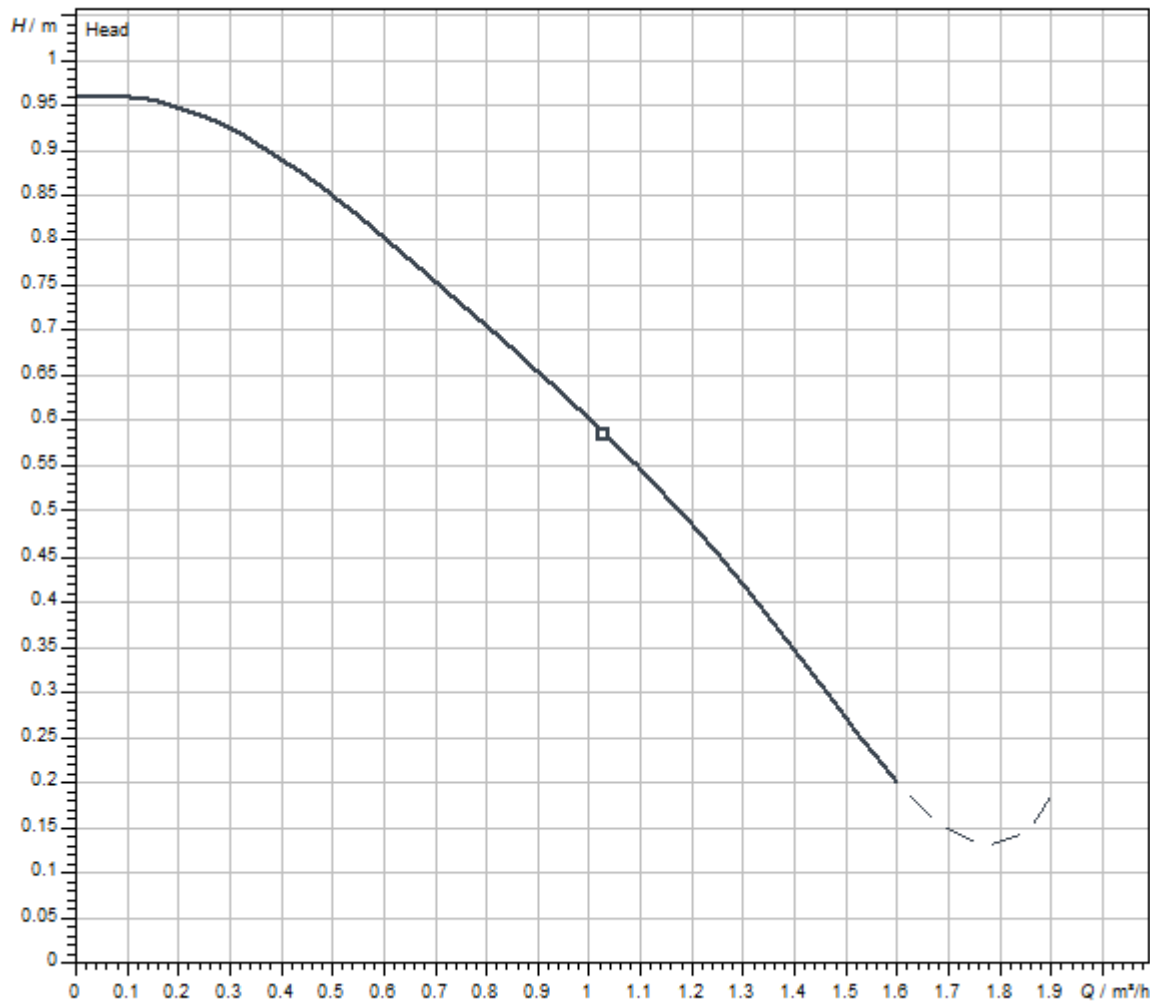
Materials

Pump housing	Bronze, CC499K
Impeller	PPE-GF30
Shaft	Oxide ceramic
Bearing	Carbon, synthetic resin-impregnated

Installation dimensions

Pipe connection on the suction side DN_s	G 1
Pipe connection on the discharge side DN_d	G 1
Port-to-port length L_0	130 mm

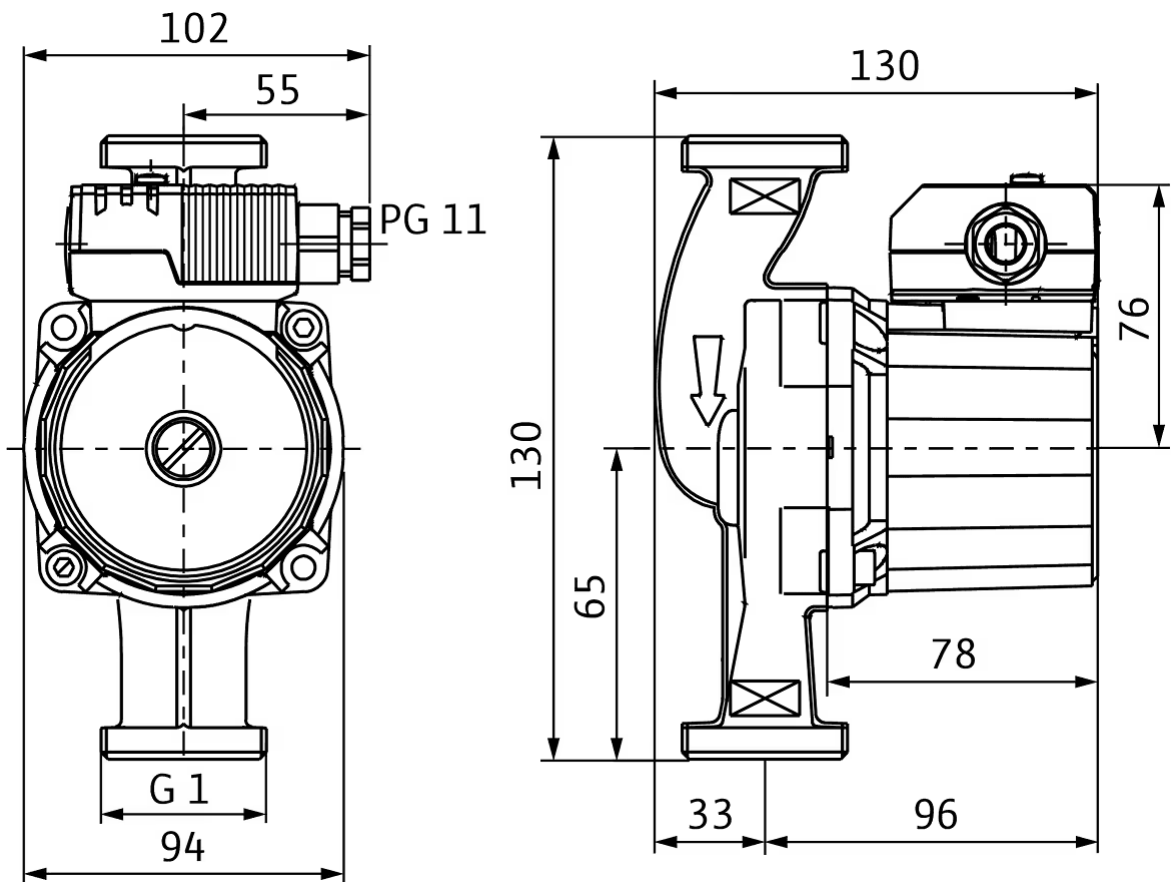
Pump curves



Fluid media	Water 100 %
Fluid temperature <i>T</i>	20.00 °C
speed at duty point <i>n hydr. @ OP</i>	2,900 1/min

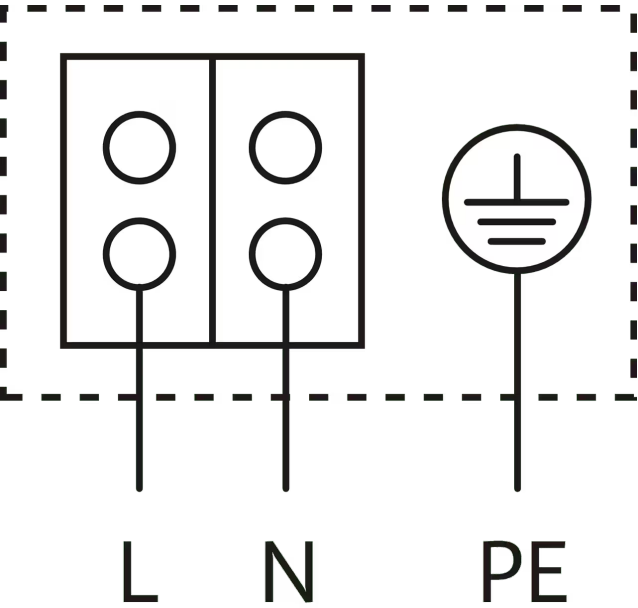
Dimensions and dimensions drawings

Star-Z 20/1(15-130)



Wiring diagram


Star-E



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

Ordering information

Product data

Brand	Wilo
Product description	Star-Z 20/1(15-130)
Article number	4232172 
EAN number	4048482895918
Colour	Green
Minimum order quantity	1
Date of sales availability	2019-02-13

Packaging

Packaging type	Cardboard box
Packaging property	Sales packaging
Pieces per pallet	256
Number per layer	32

Dimension, weight

Length with packaging	147 mm
Length <i>L</i>	129 mm
Height with packaging	100 mm
Height <i>H</i>	101 mm
Width with packaging	187 mm
Width <i>W</i>	141 mm
Gross weight, approx. <i>m</i>	2.3 kg
Net weight, approx. <i>m</i>	2.2 kg

Tender text

This circulator is suitable only for drinking water.

Domestic hot water circulator, constant-speed glandless pump for pipe installation. Blocking-current proof motor.

Pump housing made of bronze, impeller made of fibreglass-reinforced plastic, ceramic shaft with resin-impregnated carbon friction bearings.

Operating Data

Max. fluid temperature T_{\max}	65 °C
Min. fluid temperature T_{\min}	2 °C
Min. ambient temperature T_{\min}	0 °C
Max. ambient temperature T_{\max}	40 °C
Temperature range at max. ambient temperature +40 °C T	+2...+65
Maximum operating pressure PN	10 bar
Max. permitted total water hardness	3.21 mmol/l (18°dH)

Motor data

Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Mains connection	1~230 V, 50 Hz
Power consumption $P_{1\max}$	30 W
Rated current I_N	0.14 A
Protection class motor	IP44
Threaded cable connection	1 x PG11

Materials

Pump housing	Bronze, CC499K
Impeller	PPE-GF30
Shaft	Oxide ceramic
Bearing	Carbon, synthetic resin-impregnated

Installation dimensions

Pipe connection on the suction side DN_s	G 1
Pipe connection on the discharge side DN_d	G 1
Port-to-port length L_0	130 mm

Ordering information

Brand	Wilo
Product description	Star-Z 20/1(15-130)
Net weight, approx. m	2.2 kg
Article number	4232172 

Mechanical accessories

Pipe installation

Screwed connections/adapters

Screwed connection R ½ / Ø 15 i x G 1, 96 Set	112047493
Screwed connection R ½ / Ø 15 i x G 1, 1 Set	4092743

Thermal insulation

Size 14 thermal insulation shell

Thermal insulation shell (Size 14)	4046444
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Electrical accessories

Pump control

Timer switch SK 601N

Switchgear SK 601N	2120443
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Services

With Wilo as your partner, you can not only be sure of choosing high-quality product solutions, but also of benefiting from a comprehensive, worry-free package of well thought-out services. We collaborate to develop a service concept tailored to your individual needs; with our expertise and personal consultancy, we make sure that the operation of your systems is as energy-efficient, reliable and economical as possible. All the while our competent Wilo service technicians are ready to assist you with fast, reliable and on-time support.

Recommended services

Wilo-Live Assistant Service	2216415
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System Optimisation Glandless pumps	2219250
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Energy Solutions Glandless pumps	2219285
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More suitable services

Extended Warranty Glandless pumps	2219589
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Supervision Glandless pumps	2219320
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Installation Glandless pumps	2219355
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Commissioning Glandless pumps	2219390
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Maintenance BASIC Glandless pumps	2219530
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Maintenance COMFORT Glandless pumps	2219416
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Maintenance PREMIUM Glandless pumps	2219545
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Repair Glandless pumps	2219609
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