

Glandless Pumps

Standard 3-Speed Pumps (max. 2800 r.p.m.)



Wilo-ClassicStar



Wilo-Star RS

Single head pumps
Screwed-end pump

Identification Code

e.g.: Wilo-Star-RS 25/6
RS Screwed-end pump
25/ Connection size
6 Rated shut-off head [m]

Fields of Application

Central heating installations
Industrial circulating systems
Air conditioning and chilled water circulation systems

Technical Data

Suitable Fluids

Heating water to VDI 2035
Water/glycol mixtures, max. mixing ratio 1:1.
Hydraulic corrections required for mixing ratio above 20%

Performance

Speed range 1100-2200 r.p.m.
Manual 3-speed control
Fluid temperature range -10°C to +110°C

Max. working pressure 10 bar

Ambient Temperature
permissible up to 40°C

Electrical Wiring

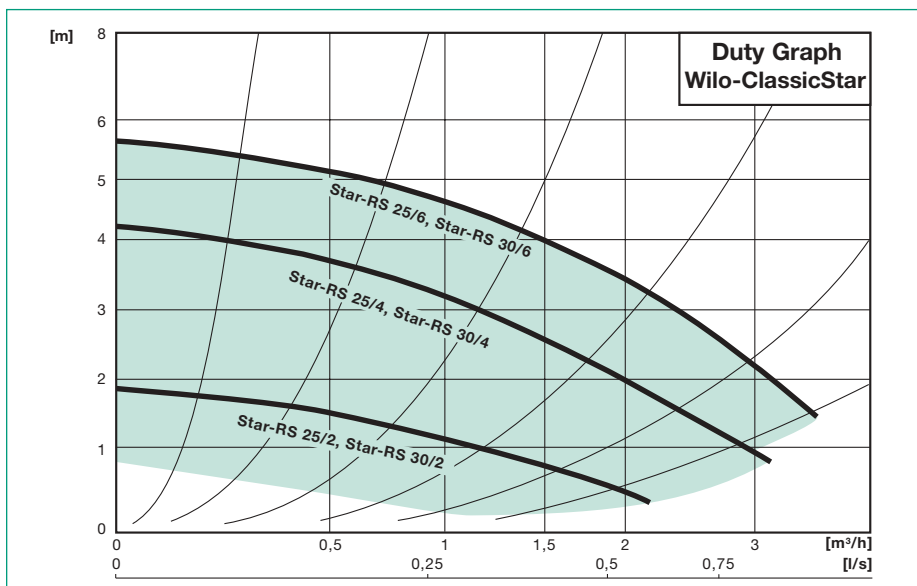
Mains power 1 ~ 230 V, 50 Hz

Motor

Degree of protection IP 42
Insulation class F
Interference emission: EN 50081-1
Interference resistance: EN 50082-2

Construction Materials

Pump body cast iron
Impeller GF-PP
Shaft stainless steel
Bearings graphite



Scope of Supply

Pump incl. 2 union washers, packing and O&M manual

Accessories

Union connector fittings, thermal insulation

Mounting Positions

Pump shaft in the horizontal plane, terminal box optionally 3, 6, 9 or 12 o'clock

Pump Equipment

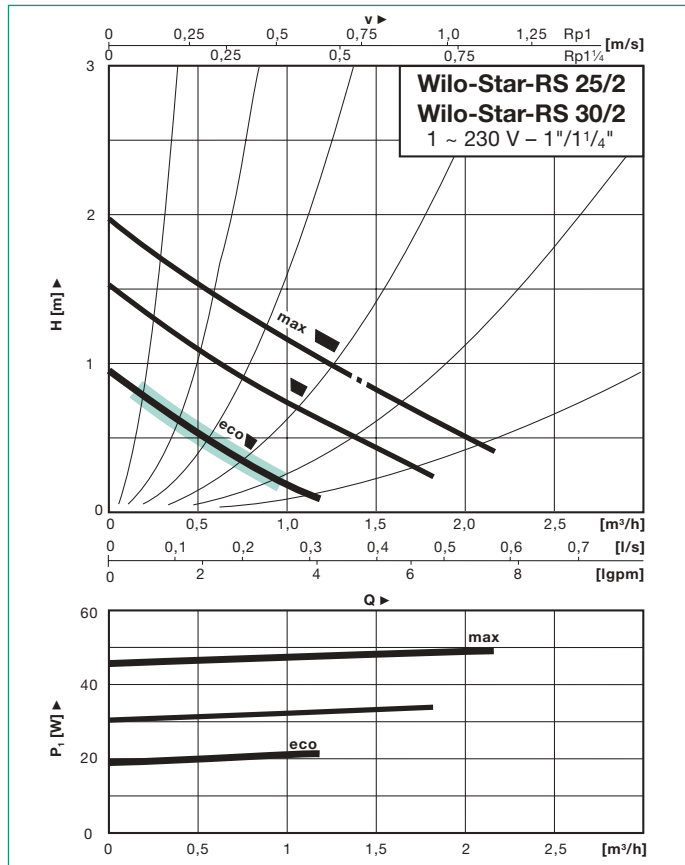
- Screwed end single head pump
- Manual 3-speed control
- Non-overloading single phase motor
- Optional left or right cable entry
- Special design versions Wilo-Star RS 25/4 and RS 25/6
 - Bronze body, 180 mm port-to-port
 - Cast iron body 130 mm port-to-port

Wilo-Star-RS		RS 25/2	RS 25/4	RS 25/6	RS 30/2	RS 30/4	RS 30/6
		Pumpdaten					
Screwed connection size/DN		1"			1¼"		
Max. working pressure		10 bar		●			
Permissible fluid temperature (water): -10 °C to +110 °C		●					
Minimum inlet pressure (m) at the pump suction inlet to avoid cavitation noise at +40°C ambient and water temperatures v_{max} :		50 °C		0.5			
		95 °C		3			
		110 °C		10			

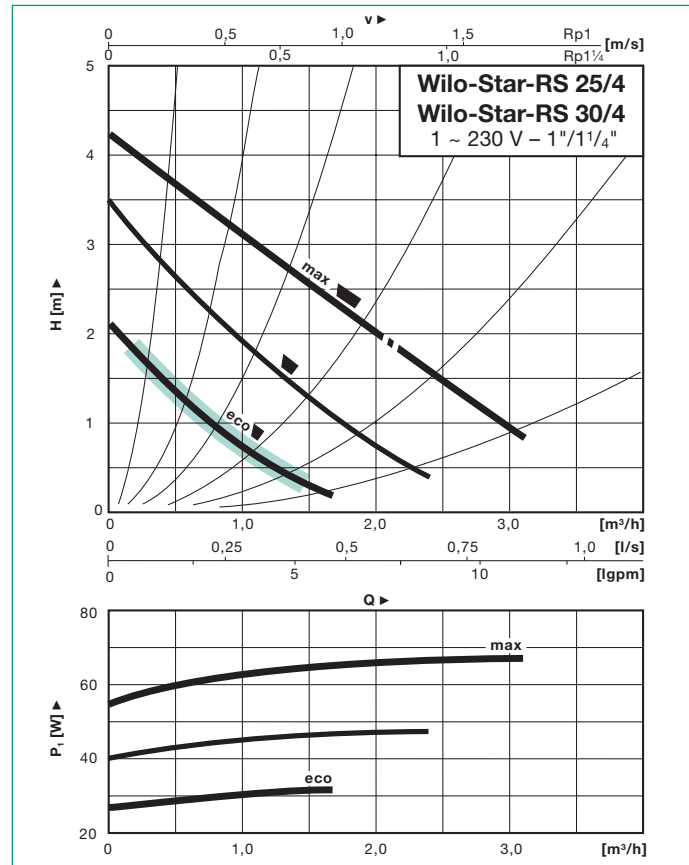
● Standard design

Wilostar-RS 25/2, RS 30/2, RS 25/4, RS 30/4

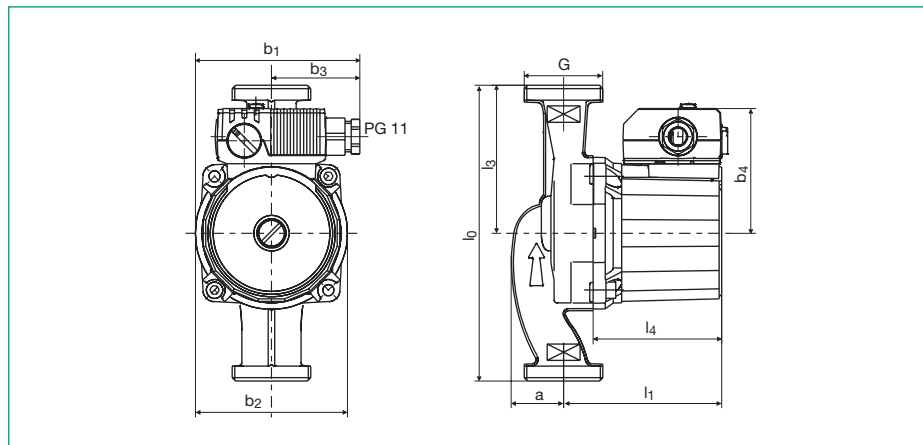
Duty graph – Single Phase



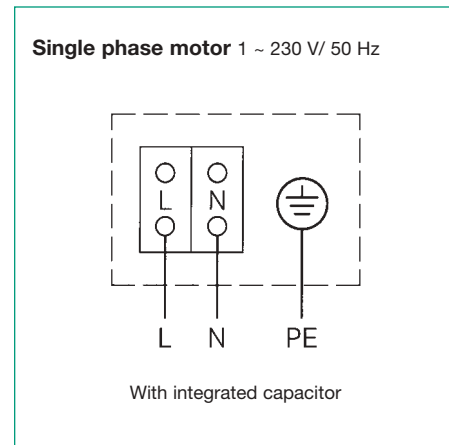
Duty graph – Single Phase



Pump Diagram



Wiring Diagram



Measurements – Weights

Wilo-Star-RS	Rp	G	l ₀	l ₁	l ₃	l ₄	a	b ₁	b ₂	b ₃	b ₄	Weight ca. kg
RS 25/2	1"	1 1/2"M	180	97	90	79	33	100	92.5	54	73	2.4
RS 30/2	1 1/4"	2"M	180	97	90	79	33	100	92.5	54	73	2.6
RS 25/4	1"	1 1/2"M	180	97	90	79	33	100	92.5	54	73	2.4
RS 30/4	1 1/4"	2"M	180	97	90	79	33	100	92.5	54	73	2.6

Motor data

Single phase motor (EM) 2pole – 1 ~ 230 V, 50 Hz

Wilo-Star-RS	Rated power P ₂ max. W	Steps/Speed d n 1/r.p.m.	Power input P ₁ W	Current I A	Capacitor r µF/VCR	Motor Protectio
RS 25/2	9	max 1900	46 - 49	0.21	1.6/400	1)
RS 30/2	4	1600	30 - 34	0.15		
	2	eco 1100	19 - 21	0.09		

1) Non-overloading motor - No external overload control required.

Motor data

Single phase motor (EM) 2pole – 1 ~ 230 V, 50 Hz

Wilo-Star-RS	Rated power P ₂ max. W	Steps/Speed d n 1/r.p.m.	Power input P ₁ W	Current I A	Capacitor r µF/VCR	Motor Protectio
RS 25/4 RS 30/4	22	max 2000	56 - 68	0.28	2.0/400	1)
	13	1650	40 - 48	0.20		
	7	eco 1200	27 - 32	0.13		

Always refer to name plate data!

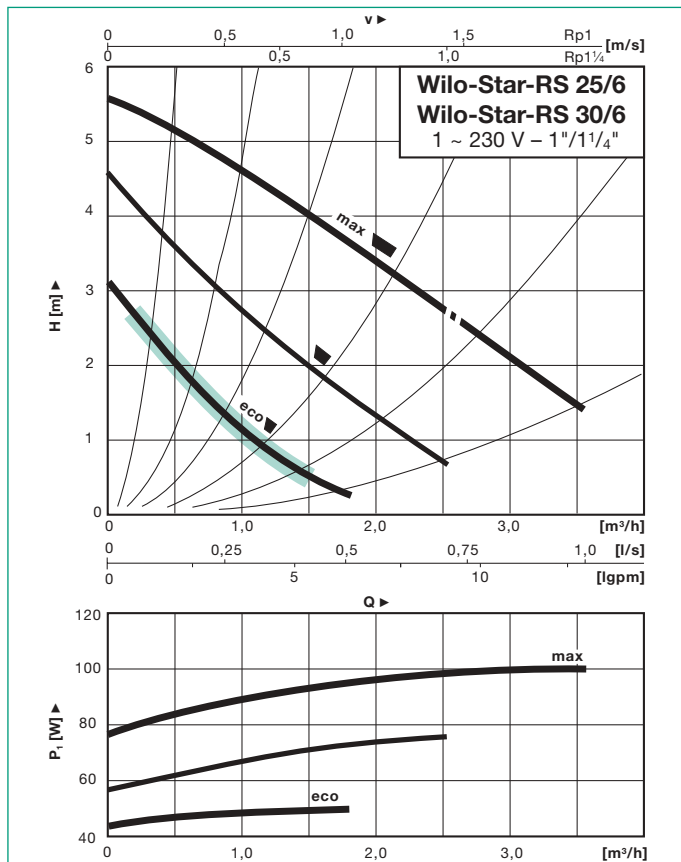
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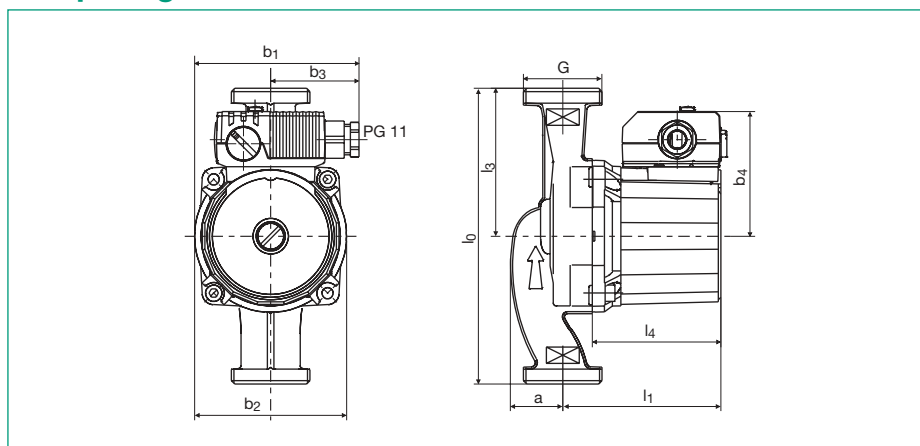


Wilo-Star-RS 25/6, Wilo-Star-RS 30/6

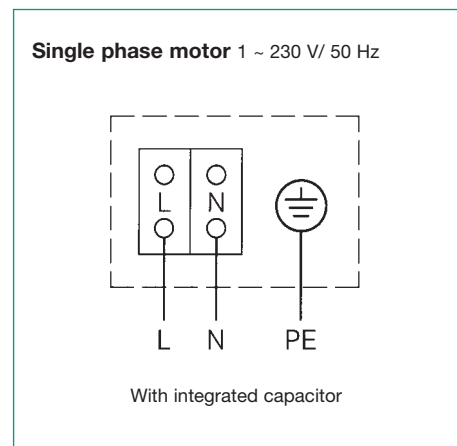
Duty graph – Single Phase



Pump Diagram



Wiring Diagram



Measurements – Weights

Wilo-Star-RS	Rp	G	l ₀	l ₁	l ₃	l ₄	a	b ₁	b ₂	b ₃	b ₄	Weight ca. kg
RS 25/6	1"	1½"	180	97	90	79	33	100	92.5	54	76	2.4
RS 30/6	1¼"	2"	180	97	90	79	33	100	92.5	54	76	2.6

Motor data

Single phase motor (EM) 2pole – 1 ~ 230 V, 50 Hz

Wilo-Star-RS	Rated power P ₂ max. W	Steps/Speed d n 1/r.p.m.	Power input P ₁ W	Current I A	Capacitor r µF/VCR	Motor Protection
RS 25/6	37	max ▀ 2200	77 - 99	0.41	2.6/400	1)
RS 30/6	22	▀ 1900	56 - 75	0.31		
	12	eco ▀ 1200	41 - 50	0.24		

1) Non-overloading motor - No external overload control required.
Always refer to name plate data!