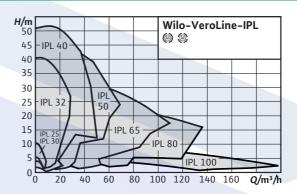


Series description: Wilo-VeroLine-IPL





Design

Glanded pump in in-line design with threaded connection or flange connection

Application

For pumping heating water (in accordance with VDI 2035), water-glycol mixtures and cooling and cold water without abrasive substances in heating, cold water and cooling water systems

Type key

Example	IPL 40/160 <mark>4/2</mark>
IPL	In-line pu <mark>mp</mark>
40	Nominal diameter DN of the pipe connection
160	Nominal im <mark>peller diameter</mark>
4	Nominal motor power P ₂ in kW
2	Number of poles

- Special features/product advantages High-efficiency motors as standard; from 0.75 kW nominal motor power: motors with IE2 technology
 - High corrosion protection thanks to cataphoretic coating
- Standard condensate drainage holes in the motor housings and lanterns
- Series version: Motor with one-piece shaft
- Version N: Standard motor B5 or V1 with stainless steel plug shaft .
- Bidirectional mechanical seal with forced flushing
- Easy to install due to feet with threaded holes on pump housing

Technical data

- Permissible temperature range -20 °C to +120 °C
- Mains connection 3~400 V, 50 Hz (others on request)
- Protection class IP 55
- Nominal diameter Rp 1 to DN 100
- Max. operating pressure 10 bar (special version: 16 bar)

Description/design

Single-stage, low-pressure centrifugal pump in in-line design with Mechanical seal

- Flange connection with pressure measuring connection R $^{1}/_{Q}$
- Motor with one-piece shaft

Materials

- Pump housing and lantern: EN-GJL-250
- Impeller: PPO fibreglass-reinforced ENGJL200 (depending on pump • type)
- Shaft: 1.4021
- Mechanical seal: AQEGG; other mechanical seals on request ٠

Scope of delivery • Pump

Installation and operating instructions

Options

- Available in following designs as standard with 2-pole motors 3~400 V (n = 2900 rpm)
- with 4-pole motors 3~400 V (n = 1450 rpm)

Accessories

- Brackets for installation on a base
- PTC thermistor sensors, PTC resistor tripping relays, special motors
- Special mechanical seals .
- Control systems CR, CRn, CC-HVAC, VR-HVAC and switchgears

General notes – ErP (ecological design–) directive • The benchmark for most efficient water pumps is MEI \ge 0.70

- The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.
- The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.
- Information on benchmark efficiency is available at www.europump.org/efficiencycharts

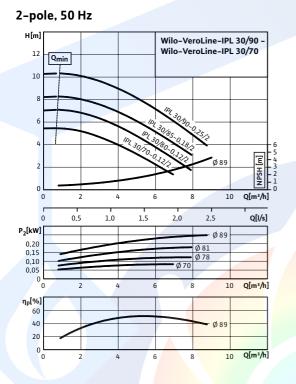
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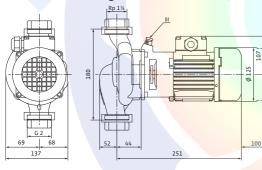


Data sheet: Wilo-VeroLine-IPL 30/90-0,25/2

Pump curves

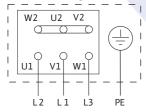


Dimension drawing



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Terminal diagram Star switching Y



Approved fluids (other fluids o	n request)				
Heating water (in accordance with VDI 2035)					
Water-glycol mixtures (for 20–40 vol.% glycol and fluid temperature ≤ 40 °C)					
Cooling and cold water	•				
Heat transfer oil	Special version at additional charge				
Permitted field of application					
Standard version for operating pressure p_{max}	10 bar				
Temperature range at max. ambient temperature +40 °C	-20+120 °C				
Max. ambient temperature	40 °C				
Installation in closed buildings	•				
Pipe connections					
Thread	G 2				
Threaded pipe union	Rp 1¼				
Flanges (according to EN 1092-2)	_				
Flange with pressure-measurement connections	-				
Materials					
Pump housing	EN-GJL-200				
Lantern	EN-GJL-250				
Impeller	PPO-GF30				
Pump shaft	1.4021				
Mechanical seal	AQEGG				
Electrical connection					
Mains connection	3~400 V, 50 Hz				
Nominal speed n	2860 rpm				
Motor/electronics					
Minimum Efficiency Index (MEI)	≥ 0.1				
Integrated full motor protection	Special version with PTC thermistor sensor (KLF) at additional charge				
Protection class	IP 55				
Insulation class	F				
Nominal current (approx.) I_N $3 \sim 40$ 0 V	0.60 A				

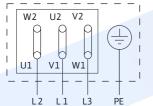
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Data sheet: Wilo-VeroLine-IPL 30/90-0,25/2

Terminal diagram Delta switching A



Motor protection switch required onsite. Check the direction of rotation! To change the direction of rotation, swap any two phases.

$P_2 \le 3 \text{ KW}$	3~400 V Y	
	3~230 V Δ	
$P_2 \ge 4 \text{ kW}$	3~690 V Y	
	3~400 V Δ	

After removing the bridges, a $Y-\Delta$ start is possible.

Efficiency	η_{M}	0.699		
Power factor	cos φ	0.81		
Motor efficiency		71.0/75.0/69.9 %		
Nominal motor power	P ₂	0.25 kW		
Installation options				
Pipe installation (≤ 15 kW motor power)	•			
Information for order placements				
Weight approx.	m	9.40 kg		
Make	Wilo			
Туре	VeroLine-IPL 30/90-0,25/	2		
Art no.		2089576		

Observe motor name plate data

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سرمایش و گرمایش موتورخانه نرمافزار فنی و مهندسی استخر، سونا و جکوزی سیستمهای پمپاژ

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