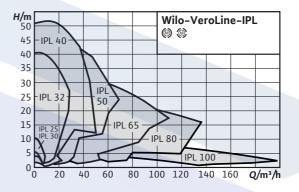


Series description: Wilo-VeroLine-IPL







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 di <mark>ameter DN of the pi</mark> pe connection			
160	Nominal im <mark>peller diameter</mark>			
4	Nominal motor power P ₂ in kW			
2	Number of po <mark>les</mark>			

- 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
- 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
- Shaft: 1.4021
- Mechanical seal: AQEGG; other mechanical seals on request

Scope of delivery • Pump

- Installation and operating instructions

- 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)

- 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 ≥ 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

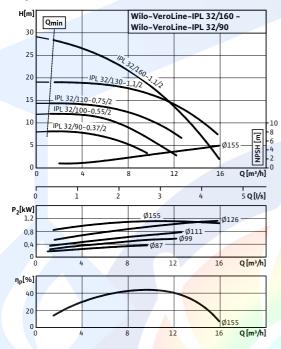




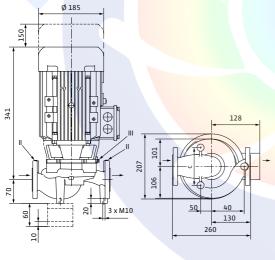
Data sheet: Wilo-VeroLine-IPL 32/110-0.75/2

Pump curves

2-pole, 50 Hz



Dimension drawing



Approved fluids (other fluids on request)

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

Nominal flange diameter	DN 32
Flanges (according to EN 1092-2)	PN 10 (PN 16 on request)
Flange with pressure-measurement connections	R 1/8

Materials

Pump housing	EN-GJL-250
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	2900 rpm

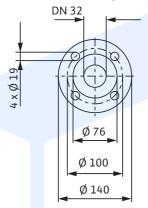
Motor/electronics

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 3~40 0 V	1.70	4			
Efficiency	$\eta_{_{M}}$	0.774				

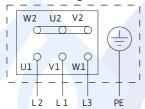


Data sheet: Wilo-VeroLine-IPL 32/110-0.75/2

Dimension drawing, flange



Terminal diagram Star switching Y



Power factor	cos φ	0.81
Motor efficiency	η_m $_{50\%}/\eta$	
	m 75%/η m 100%	75.1/77.4/77.4 %
Nominal motor power	P.	0.75 kW

Installation options

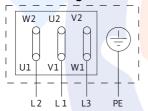
Pipe installation (≤ 15 kW motor power)

Information for order placements

Weight approx.		25.50 kg	
Make		Wilo	
Туре		VeroLine-IPL 32/1	10-0.75/2
Art no.		2089579	

Observe motor name plate data

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 ≥ 4 kW	3~690 V Y	
	3~400 V ∆	

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

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اولین و بزرگترین

سایت تخصصی سیستمهای پمپاژ با امکان محاسبه آنلاین و انتخاب پمپ



اولین و بزرگترین مرجع انتخاب آنلاین سی

انتخاب آنلاين انواع بوسترپمپ انتخاب آنلاین انواع پمپ ارائه مطالب تخصصي

تولید بوسترپمپ آتشنشانی

در كلاسهاى S3 - S2 - S1 مورد تاییدسازمان آتشنشانی تهران



تولید بوستر پمپ آبرساني دور متغير بدون محدوديت برند

اولين سايت مرجع

انتخاب آنلاین پمپ

صنعت

معدن

ایمنی و آتشنشانی آب و فاضلاب صنايع غذايي استخر

در حوزههای:





سرمایش و گرمایش موتورخانه

نرمافزار فنی و مهندسی

استخر، سونا و جکوزی

سیستمهای پمپاژ

تهویه و تخلیه دود سیستمهای پمپاژ ايمنى معماري اطفاء حريق اعلام حريق

آمــوزش

مشاوره - طراحي - اجراء

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