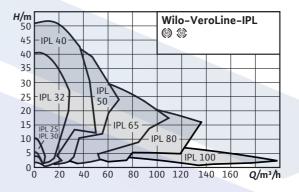


Series description: Wilo-VeroLine-IPL







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

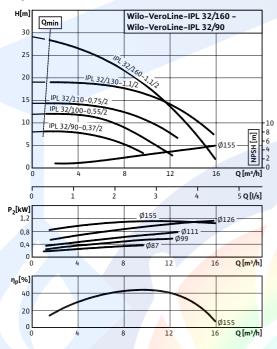




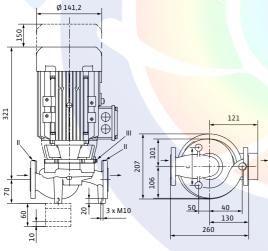
Data sheet: Wilo-VeroLine-IPL 32/90-0.37/2

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 re | quest) |
| Flange w | ith pressure-measurement | 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 |

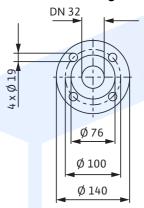
Motor/electronics

| 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 | 0.860 | A | |
| Efficiency | $\eta_{_{M}}$ | 0.728 | | |

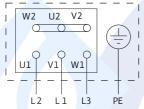


Data sheet: Wilo-VeroLine-IPL 32/90-0.37/2

Dimension drawing, flange



Terminal diagram Star switching Y



| Power factor | cos φ | 0.78 |
|---------------------|---|------------------|
| Motor efficiency | η _m _{50%} /η _m _{75%} /η | 68.1/73.5/72.8 % |
| Nominal motor power | m 100% | 0.37 kW |

Installation options

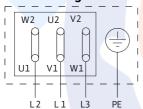
Pipe installation (≤ 15 kW motor power)

Information for order placements

| Weight approx. | m | 20.70 kg | |
|----------------|---|-------------------|----------|
| Make | | Wilo | |
| Туре | | VeroLine-IPL 32/9 | 0-0.37/2 |
| Art no. | | 2089577 | |

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 Δ | |

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

EDUPUMP.IR

WWW.EDUPUMP.IR

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

تاسیسات مکانیکی (موتورخانه - استخر) تهویه و تخلیه دود سیستمهای پمپاژ ايمنى معماري اعلام حريق اطفاء حريق

تهــران، سعـدی شمـالـی، خیابان مرادی نور، پـلاک ۳۱ تلفن: ۶۹۶۶۸۶۷۷–۲۱ه فکس: ۵۵۸۷۶۷۷–۲۱ه

