

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

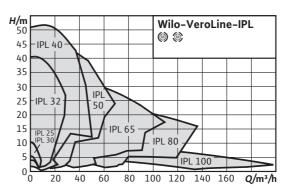
| Example | IPL 40/160-4/2 | | |
|---------|--|--|--|
| IPL | In-line pump | | |
| 40 | Nominal diameter DN of the pipe connection | | |
| 160 | Nominal impeller diameter | | |
| 4 | Rated motor power P ₂ in kW | | |
| 2 | Number of poles | | |

- 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 $^{1}/_{R}$
- Motor with one-piece shaft .

Materials

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

Scope of delivery Pump

Installation and operating instructions

Options

- H4 variant with PN6/10 flanges (at additional charge)
- H5 variant with PN16 housing (at additional charge)
- Motors with efficiency class IE3, other voltages and frequencies, as well as ATEX approval on request

Accessories

- Mounting brackets for installation on a base
- PTC thermistor sensor, PTC resistor tripping relay
- Special motors .
- Special mechanical seals
- Control systems CC-HVAC, VR-HVAC and switchgear

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

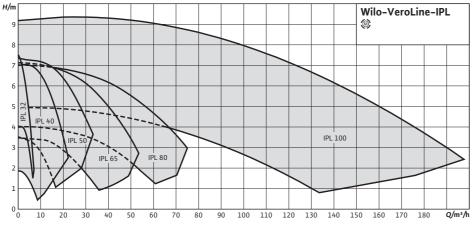
- The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.
- 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

www.wilo.co.uk 50 Hz EU



Duty chart: Wilo-VeroLine-IPL

Wilo-VeroLine-IPL (4-pole)



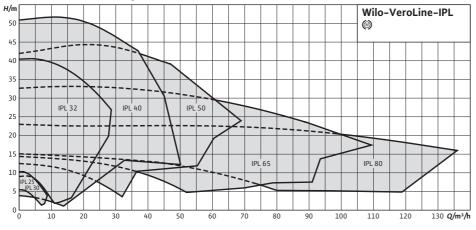
www.wilo.co.uk 50 Hz EU

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Duty chart: Wilo-VeroLine-IPL

Wilo-VeroLine-IPL (2-pole)



www.wilo.co.uk 50 Hz EU



Technical data: Wilo-VeroLine-IPL

| Approved fluids (other fluids on request) | | | |
|---|---|--|--|
| Heating water (in accordance with VDI 2035) | | | |
| Water-glycol mixtures (for 20-40 vol.% glycol and fluid temperature | • | | |
| Cooling and cold water | | | |
| Heat transfer oil | Special version at additional charge | | |
| Permitted field of application | | | |
| Standard version for operating pressure | n | 10 bar | |
| Special version for operating pressure | p _{max} | 16 bar | |
| Temperature range at max. ambient temperature +40 °C | -10+120 °C (depending on the fluid) | | |
| Max. ambient temperature | 40 °C | | |
| Installation in closed buildings | • | | |
| Outdoor installation | Special version at additional charge | | |
| Pipe connections | | | |
| Threaded connection | - | | |
| Nominal connection diameters DN | 32 -100 | | |
| 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 | | |
| Impeller (special version) | - | | |
| Pump shaft | 1.4021 | | |
| Mechanical seal | AQEGG | | |
| Other mechanical seals | On request | | |
| Electrical connection | | | |
| Mains connection | | 3~400 V, 50 Hz | |
| Nominal speed | n | 1450/2900 rpm | |
| Motor/electronics | | | |
| Integrated full motor protection | Special version with PTC thermistor sensor (KLF) at additional charge | | |
| Protection class | IP 55 | | |
| Insulation class | F | | |
| | Speed control | | |
| Speed control | | | |
| Speed control Motor winding up to 3 kW | | 230 V Δ/400 V Y, 50 Hz | |
| | | 230 V Δ/400 V Y, 50 Hz 400 V Δ/690 V Y, 50 Hz | |



Technical data: Wilo-VeroLine-IPL

 Pipe installation (≤ 15 kW motor power)
 •

 Support-bracket mounting
 •

Subject to change without prior notice.

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2013-08

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