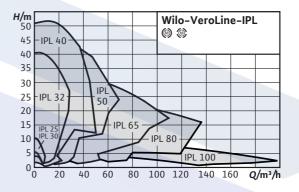


#### Series description: Wilo-VeroLine-IPL







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 <sub>2</sub> 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

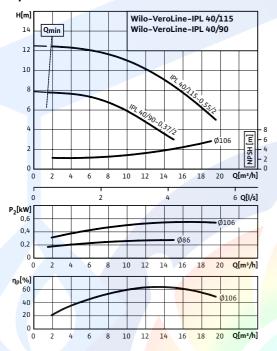




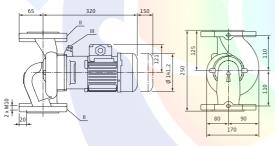
### Data sheet: Wilo-VeroLine-IPL 40/115-0.55/2

#### **Pump curves**

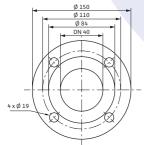
#### 2-pole, 50 Hz



#### **Dimension drawing**



#### Dimension drawing, flange



# EDUPU

ŀ	Approved	l fluids	(other	fluids	on 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 <sub>max</sub>	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 40
Flanges (according to EN 1092-2)	PN 10 (PN 16 on request)
Flange with pressure-measurement	R 1/8

#### Materials

Pump housing	EN-GJL-250
Pullip flousing	EIN-GJL-230
Lantern	EN-GJL-250
Impeller	PPO-GF30
Pump shaft	1.4021
Mechanical seal	AOEGG

#### **Electrical connection**

Mains connection	3~400 V, 50 Hz	
Nominal speed	n	2900 rpm

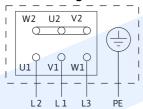
#### Motor/electronics

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 <sub>N</sub> 3~40 0 V	1.330	λ		1
Efficiency	n.,	0.755			

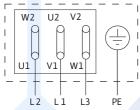


#### Data sheet: Wilo-VeroLine-IPL 40/115-0.55/2

#### Terminal diagram Star switching Y



#### Terminal diagram Delta switching $\Delta$



Motor protection switch required onsite. Check the direction of rotation! To change the direction of rotation, swap any two phases.  $P_3 \le 3 \text{ kW}$   $3 \sim 400 \text{ V Y}$ 

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

After removing the bridges, a Y-Δ start is possible.

Power factor	cos φ	0.76
Motor efficiency	$\eta_m$	
	<sub>50%</sub> /η m <sub>75%</sub> /η	72.8/76.7/75.5 %
	m 100%	
Nominal motor power	$P_{2}$	0.55 kW

#### **Installation options**

Pipe installation (≤ 15 kW motor power)

Weight approx.	m	20.10 kg	
Make		Wilo	
Туре		VeroLine-IPL 40/1	15-0.55/2
Art no.		2089585	

Observe motor name plate data



# 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 بوستريمپ 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

