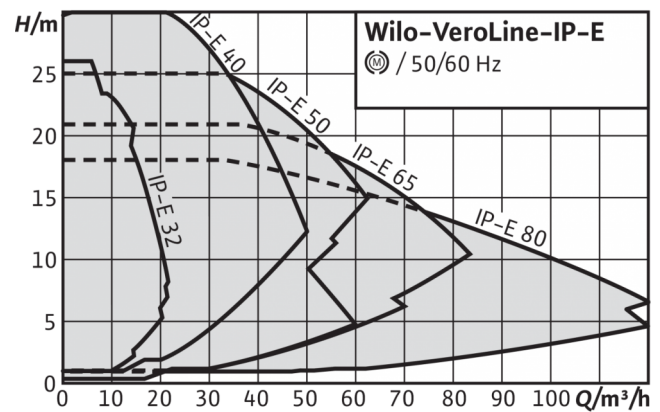


## Series description: Wilo-VeroLine-IP-E

VeroLine-IP-E



VeroLine-IP-E



Similar to figure

### Design type

Electronically controlled glanded single pump in in-line design with flange connection and automatic power adjustment

### Application

Pumping of heating water (acc. to VDI 2035), cold water and water/glycol mixtures without abrasive substances in heating, cold water and cooling systems.

### Equipment/function

B>Operating modes

- $\Delta p$ -c for constant differential pressure
- $\Delta p$ -v for variable differential pressure
- PID control
- Constant speed (n=constant)

### Manual operation level

- Green button and display

### Manual functions

- Differential pressure setpoint setting
- Setting the speed (manual control mode)
- Setting the operating mode
- Setting the pump ON/OFF
- Configuration of all operating parameters
- Fault acknowledgement

### External control functions

- "Overriding Off" control input
- "External pump cycling" control input (effective only in dual pump operation)
- Analogue input 0 - 10 V, 0 - 20 mA for constant speed (DDC) and remote setpoint adjustment
- Analogue input 2 - 10 V, 4 - 20 mA for constant speed (DDC) and remote setpoint adjustment
- Analogue input 0 - 10 V for actual value signal from pressure sensor
- Analogue input 2 - 10 V, 0 - 20 mA, 4 - 20 mA for actual value signal from pressure sensor

### Special features/product advantages

- Energy savings due to integrated electronic power adjustment
- Optional interfaces for bus communication using plug-in IF-Modules
- Simple operation with Green Button Technology and display
- Integrated dual pump management
- Integrated full motor protection (PTC thermistor sensor) with trip electronics

## Series description: Wilo-VeroLine-IP-E

### Equipment/function

#### Signal and display functions

- Collective fault signal SSM
- Collective run signal SBM

#### Data exchange

- Infrared interface for wireless data exchange with IR-Monitor/IR-Stick
- Plug-in position for Wilo IF-Modules (Modbus, BACnet, CAN, PLR, LON) for connection to building automation

#### Safety functions

- Full motor protection with integrated trip electronics
- Access disable

#### Dual pump management (double pump or 2 x single pumps)

- Main/standby operation (automatic fault-actuated switchover)
- Pump cycling main/standby operation after 24 hours
- Parallel operation
- Parallel operation (efficiency-optimised peak-load activation and deactivation)

### Scope of delivery

- Pump
- Installation and operating instructions

### Type key

Example	<b>IP-E 40/160-4/2-R1</b>
<b>IP-E</b>	In-line pump with electronic control
<b>40</b>	Nominal diameter DN of the pipe connection
<b>160</b>	Nominal impeller diameter
<b>4</b>	Rated motor power P2 in kW
<b>2</b>	Number of poles
<b>R1</b>	Version without pressure sensor

### Technical data

- Permissible temperature range -20 °C to +120 °C
- Mains connection
  - - 3~400 V ±10 %, 50 Hz
    - 3~380 V -5 % +10 %, 60 Hz
- Protection class IP 55
- Nominal diameter DN 32 to DN 80
- Max. operating pressure 10 bar (special version: 16 bar)

### Materials

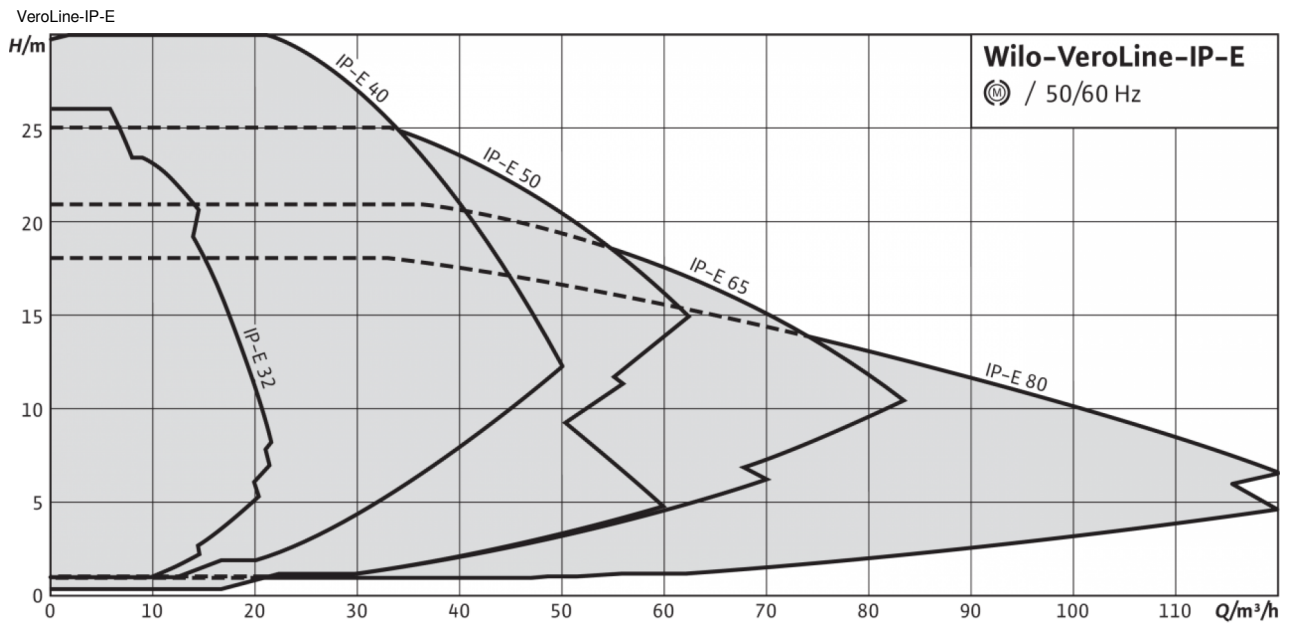
- Pump housing and lantern: EN-GJL-250
- Impeller: PPO-GF30
- Shaft: 1.4021
- Mechanical seal: AQEGG; other mechanical seals on request

### Description/construction

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

- Mechanical seal
- Flange connection
- Drive with integrated electronic speed control

## Duty chart: Wilo-VeroLine-IP-E



## Product list: Wilo-VeroLine-IP-E

Product description	Motor efficiency class	Mains connection	Version	Rated power $P_2$	Pipe connection	Port-to-port length $l_0$	Gross weight, approx. $m$	Article number
VeroLine-IP-E 80/110-4/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	4.00 kW	DN 80	360 mm	70.6 kg	2158830
VeroLine-IP-E 80/105-3/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	3.00 kW	DN 80	360 mm	62.8 kg	2158829
VeroLine-IP-E 80/115-2,2/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	2.20 kW	DN 80	360 mm	55.6 kg	2158828
VeroLine-IP-E 65/130-4/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	4.00 kW	DN 65	340 mm	66.5 kg	2158827
VeroLine-IP-E 65/120-3/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	3.00 kW	DN 65	340 mm	58.7 kg	2158826
VeroLine-IP-E 65/110-2,2/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	2.20 kW	DN 65	340 mm	50.0 kg	2158825
VeroLine-IP-E 65/115-1,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	1.50 kW	DN 65	340 mm	49.4 kg	2158824
VeroLine-IP-E 50/150-4/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	4.00 kW	DN 50	340 mm	64.3 kg	2158823
VeroLine-IP-E 50/140-3/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	3.00 kW	DN 50	340 mm	56.5 kg	2158822
VeroLine-IP-E 50/130-2,2/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	2.20 kW	DN 50	340 mm	48.8 kg	2158821
VeroLine-IP-E 50/105-0,75/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	0.75 kW	DN 50	280 mm	38.7 kg	2158820
VeroLine-IP-E 40/160-4/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	4.00 kW	DN 40	320 mm	61.3 kg	2158819
VeroLine-IP-E 40/150-3/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	3.00 kW	DN 40	320 mm	53.5 kg	2158818
VeroLine-IP-E 40/130-2,2/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	2.20 kW	DN 40	320 mm	45.8 kg	2158817
VeroLine-IP-E 40/120-1,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	1.50 kW	DN 40	320 mm	45.2 kg	2158816
VeroLine-IP-E 40/115-0,55/2	IE2	3~440 V, 50 Hz	with differential pressure sensor	0.55 kW	DN 40	250 mm	30.1 kg	2158815
VeroLine-IP-E 32/135-1,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	1.50 kW	DN 32	260 mm	41.7 kg	2158814
VeroLine-IP-E 32/135-1,1/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	1.10 kW	DN 32	260 mm	34.6 kg	2158813
VeroLine-IP-E 32/125-1,1/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	1.10 kW	DN 32	260 mm	34.6 kg	2158812
VeroLine-IP-E 32/105-0,75/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	0.75 kW	DN 32	260 mm	33.0 kg	2158811
VeroLine-IP-E 32/95-0,55/2	IE2	3~440 V, 50 Hz	with differential pressure sensor	0.55 kW	DN 32	260 mm	30.1 kg	2158810
VeroLine-IP-E 80/110-4/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	4.00 kW	DN 80	360 mm	63.3 kg	2158893
VeroLine-IP-E 80/105-3/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	3.00 kW	DN 80	360 mm	55.3 kg	2158892

## Product list: Wilo-VeroLine-IP-E

Product description	Motor efficiency class	Mains connection	Version	Rated power $P_2$	Pipe connection	Port-to-port length $l_0$	Gross weight, approx. $m$	Article number
VeroLine-IP-E 80/115-2,2/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	2.20 kW	DN 80	360 mm	51.7 kg	2158891
VeroLine-IP-E 65/130-4/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	4.00 kW	DN 65	340 mm	58.0 kg	2158890
VeroLine-IP-E 65/120-3/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	3.00 kW	DN 65	340 mm	50.0 kg	2158889
VeroLine-IP-E 65/110-2,2/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	2.20 kW	DN 65	340 mm	43.5 kg	2158888
VeroLine-IP-E 65/115-1,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	1.50 kW	DN 65	340 mm	40.5 kg	2158887
VeroLine-IP-E 50/150-4/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	4.00 kW	DN 50	340 mm	55.5 kg	2158886
VeroLine-IP-E 50/140-3/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	3.00 kW	DN 50	340 mm	47.5 kg	2158885
VeroLine-IP-E 50/130-2,2/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	2.20 kW	DN 50	340 mm	41.5 kg	2158884
VeroLine-IP-E 50/105-0,75/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	0.75 kW	DN 50	280 mm	33.2 kg	2158883
VeroLine-IP-E 40/160-4/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	4.00 kW	DN 40	320 mm	52.8 kg	2158882
VeroLine-IP-E 40/150-3/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	3.00 kW	DN 40	320 mm	44.8 kg	2158881
VeroLine-IP-E 40/130-2,2/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	2.20 kW	DN 40	320 mm	38.5 kg	2158880
VeroLine-IP-E 40/120-1,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	1.50 kW	DN 40	320 mm	36.8 kg	2158879
VeroLine-IP-E 40/115-0,55/2-R1	IE2	3~440 V, 50 Hz	without differential pressure sensor	0.55 kW	DN 40	250 mm	27.6 kg	2158878
VeroLine-IP-E 32/135-1,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	1.50 kW	DN 32	260 mm	33.8 kg	2158877
VeroLine-IP-E 32/135-1,1/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	1.10 kW	DN 32	260 mm	31.8 kg	2158876
VeroLine-IP-E 32/125-1,1/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	1.10 kW	DN 32	260 mm	31.8 kg	2158875
VeroLine-IP-E 32/105-0,75/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	0.75 kW	DN 32	260 mm	29.4 kg	2158874
VeroLine-IP-E 32/95-0,55/2-R1	IE2	3~440 V, 50 Hz	without differential pressure sensor	0.55 kW	DN 32	260 mm	27.6 kg	2158873