

Data sheet

Hydraulic data

| | |
|------------------------------------|--------|
| Minimum efficiency index (MEI) | 0.4 |
| Maximum operating pressure P_N | 10 bar |
| Min. fluid temperature T_{min} | -20 °C |
| Max. fluid temperature T_{max} | 120 °C |
| Min. ambient temperature T_{min} | 0 °C |
| Max. ambient temperature T_{max} | 40 °C |

Motor data

| | |
|----------------------------------|-------------------|
| Mains connection | 3~380 V, 50/60 Hz |
| Motor efficiency class | IE4 |
| Rated power P_2 | 0.75 kW |
| Rated current I_N | 1.9 A |
| Rated speed n | 2900 1/min |
| Max. speed n_{max} | 2910 1/min |
| Interference emission | EN 61800-3 |
| Interference immunity | EN 61800-3 |
| Insulation class | F |
| Protection class motor | IP55 |
| Integrated full motor protection | - |
| Threaded cable connection | 1 x M16x1.5 |

Materials

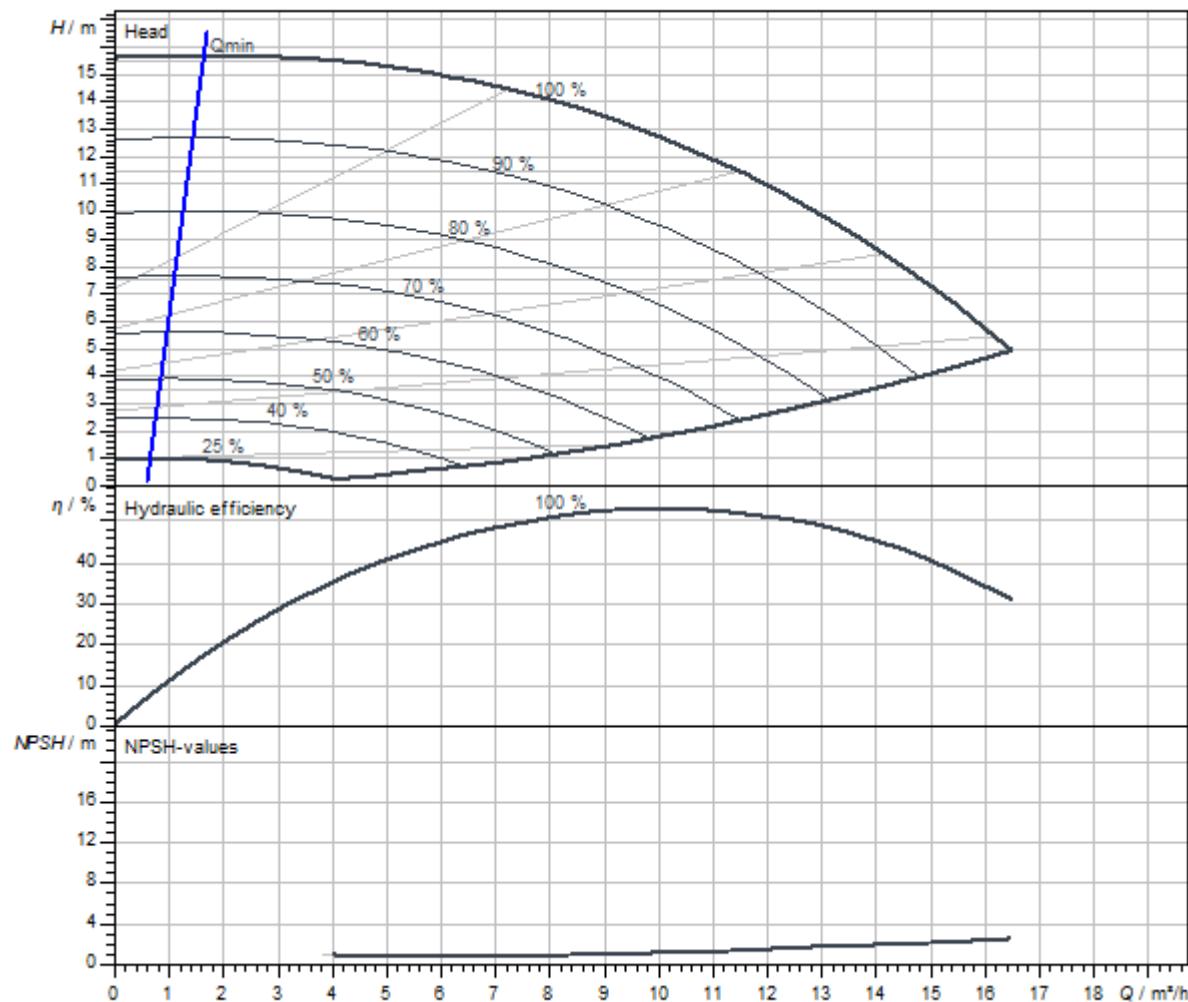
| | |
|--------------|-----------------|
| Pump housing | Cast iron |
| Impeller | PPE/PS-GF30 |
| Shaft | Stainless steel |
| Shaft seal | AQ1EGG |
| Lantern | Cast iron |

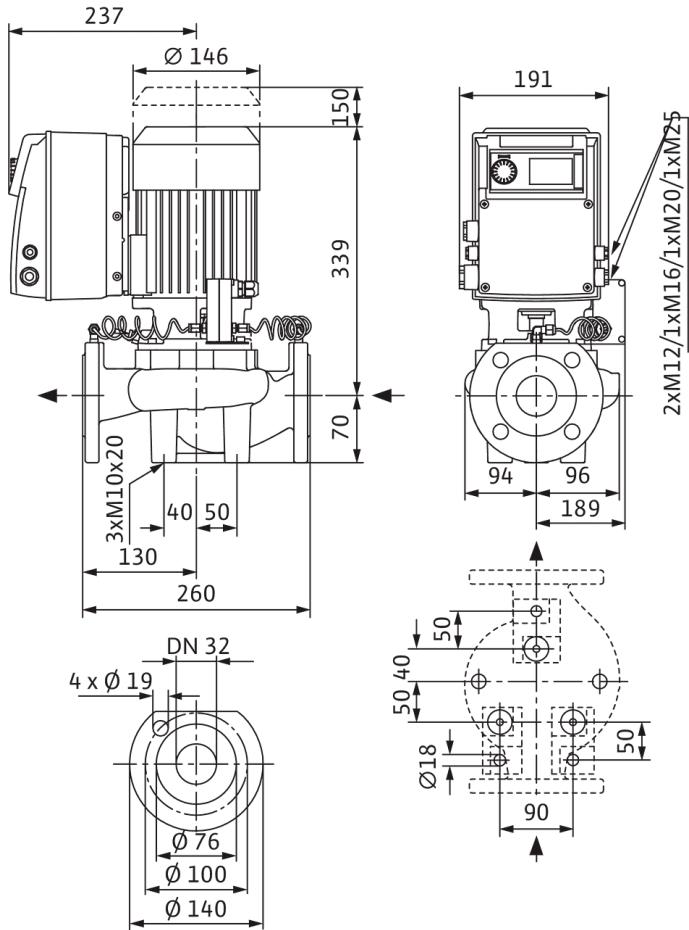
Approved liquids (other liquids upon request)

| | |
|---|--------------------------------------|
| Heating water (as per VDI 2035) | yes |
| Heat carrier oil | Special version at additional charge |
| Cooling and cold water circulation systems | yes |
| Water-glycol mixtures (at 20 - 40 vol. % glycol and fluid temperature ≤ 40 °C) | yes |

Installation dimensions

| | |
|---|--------|
| Port-to-port length L_0 | 260 mm |
| Pipe connection on the suction side DNs | DN 32 |
| Pipe connection on the discharge side DNd | DN 32 |

Pump curves

Dimensions and dimensions drawings**VeroLine-IP-E 32/105-0,75/2****Note:**

Housing with feet for installation on a base and drilled holes M10, brackets on request.

Ordering information

Product data

| | |
|----------------------------|-----------------------------|
| Brand | Wilo |
| Product description | VeroLine-IP-E 32/105-0,75/2 |
| Article number | 2158811 |
| EAN number | 4048482603360 |
| Colour | Green |
| Minimum order quantity | 1 |
| Date of sales availability | 2015-09-01 |

Dimension, weight

| | |
|--------------------------------|----------|
| Length with packaging | 595 mm |
| Length <i>L</i> | 408.5 mm |
| Height with packaging | 465 mm |
| Height <i>H</i> | 367 mm |
| Width with packaging | 395 mm |
| Width <i>W</i> | 283 mm |
| Gross weight, approx. <i>m</i> | 33 kg |
| Net weight, approx. <i>m</i> | 28 kg |

Packaging

| | |
|--------------------|---------------------|
| Number per layer | 1 |
| Packaging property | Transport packaging |
| Packaging type | Cardboard box |
| Pieces per pallet | 1 |

Tender text

Glanded centrifugal pump with in-line design for pipe installation with built-in frequency converter for electronic control for constant or variable differential pressure (dp-c/dp-v). Three-phase AC motor with frequency converter.

Design:

- Single-stage low-pressure centrifugal pump with one-piece shaft
- Spiral housing, in-line design
- PN 16 flange – drilled according to EN 1092-2
- Pressure measuring connections (R 1/8) for mounted differential pressure sensor (version ...-R1 without differential pressure sensor)
- Pump housing and motor flange with cataphoretic coating as standard
- Mechanical seal for water feed up to T=120 °C. A glycol admixture of 20 to 40% by vol. is permitted up to Tmax = +40 °C. Other mechanical seals or other fluids/temperatures on request.

Accessories:

- Mounting brackets for fixing to the foundation
- IR-Monitor
- IR-Stick
- IF module PLR
- IF module LON
- IF module Modbus
- IF module BACnet
- IF module CAN
- Control systems VR-HVAC/CCe-HVAC/SCe-HVAC
- Differential pressure sensor (DDG) sets 0-10 V for pumps in version ...-R1

Standard equipment:

- One-button manual operation level for:
 - Pump On/Off
 - Setpoint and speed adjustment
 - Selecting the control mode: Δp-c (constant differential pressure), Δp-v (variable differential pressure), PID controller, n-constant (constant speed)
 - Selection of operating mode in dual pump operation (main/standby operation, parallel operation)
 - Configuration of operating parameters
 - Fault acknowledgement
- Pump display for displaying:
 - Control mode
 - Setpoint (e.g. differential pressure or speed)
 - Error and warning messages
 - Actual values (e.g. power consumption, actual value of the sensor)
 - Operating data (e.g. operating hours, energy consumption)
 - Status data (e.g. status of SSM and SBM relay)
 - Device data (e.g. pump name)

Additional functions:

- Interfaces: Control input "Overriding Off", "External pump cycling" (effective only in dual pump operation), analogue input 0-10 V, 2-10 V, 0-20 mA, 4-20 mA for control mode (DDC) or for remote setpoint adjustment, analogue input 0-10 V, 2-10 V, 0-20 mA, 4-20 mA for actual value signal of the pressure sensor, Infrared interface for wireless communication with the operating and service unit Wilo-IR-Stick/IR-Monitor, plug-in position for Wilo IF-Module Modbus, BACnet, CAN, PLR, LON for connecting to the building automation, configurable, potential-free fault and operating/ready message, interface for dual pump communication
- Adjustable time interval for pump cycling (in dual pump mode)
- Integrated full motor protection
- Different operating modes for heating mode (HV) or air-conditioning mode (AC)
- Access disable
- Different operation levels: Standard / Service

Operating data

| | |
|-------------------------|--------|
| Fluid temperature T | -20 °C |
| Ambient temperature T | 0 °C |

Operating data

| | |
|---------------------------------|--------|
| Maximum operating pressure PN | 10 bar |
| Minimum efficiency index (MEI) | 0.4 |

Motor data

| | |
|------------------------|-------------------|
| Motor efficiency class | IE4 |
| Interference emission | EN 61800-3 |
| Interference immunity | EN 61800-3 |
| Mains connection | 3~380 V, 50/60 Hz |
| Rated power P_2 | 750 W |
| Max. speed n_{\max} | 2910 1/min |
| Rated current I_N | 1.9 A |
| Insulation class | F |
| Protection class motor | IP55 |
| Motor protection | |

Installation dimensions

| | |
|---|--------|
| Pipe connection on the suction side DNs | DN 32 |
| Pipe connection on the discharge side DNd | DN 32 |
| Port-to-port length $L0$ | 260 mm |

Ordering information

| | |
|-------------------------|-----------------------------|
| Brand | Wilo |
| Product description | VeroLine-IP-E 32/105-0,75/2 |
| Net weight, approx. m | 28 kg |
| Article number | 2158811 |

Materials

| | |
|--------------|-----------------|
| Pump housing | Cast iron |
| Impeller | PPE/PS-GF30 |
| Shaft | Stainless steel |
| Shaft seal | AQ1EGG |
| Lantern | Cast iron |