



Data sheet

Product data

Product description	HELIX V1607-2/25/V/KS/400-50
Hvdraulic data	

Minimum efficiency index (MEI)	≥0.5
Maximum inlet pressure <i>p inl</i>	10 bar
Maximum operating pressure PN	25 bar
Discharge port	DN 50
Min. fluid temperature T_{\min}	-15 °C
Max. fluid temperature $T_{\rm max}$	90 °C
Min. ambient temperature \mathcal{T}_{\min}	-15 °C
Max. ambient temperature $T_{\rm max}$	50 °C

Motor data

Mains connection	3~400 V, 50 Hz
Voltage tolerance	±10 %
Rated power P ₂	5.5 kW
Motor efficiency class	IE3
Rated current $I_{\rm N}$	10.5 A
Rated speed <i>n</i>	2900 1/min
Power factor $cos\ arphi_{100}$	0.86
Activation type	Direct/Star-Delta
Motor efficiency 50% $\eta_{\rm M}$ 50%	87.1 %
Motor efficiency 75% $\eta_{\rm M}$ 75%	89 %
Motor efficiency 100% $\eta_{\rm M}$ 100%	89.2 %
Insulation class	F
Protection class motor	IP55

Materials

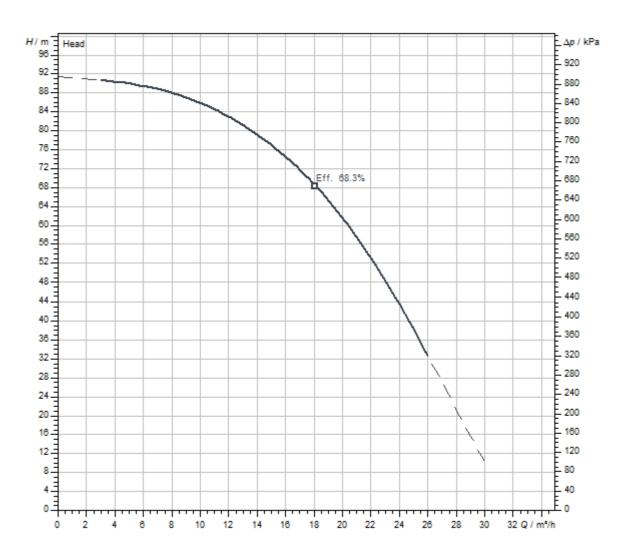
Pump housing	Stainless steel
Impeller	Stainless steel
Shaft	Stainless steel
Mechanical seal	BQ1VGG
Gasket material	FKM

Installation dimensions

Pipe connection on the suction side <i>DNs</i>	DN 50
Pipe connection on the discharge side <i>DNd</i>	DN 50



Pump curves

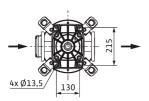


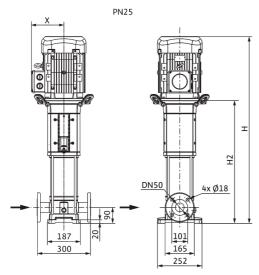
Fluid media	Water 100 %
Fluid temperature <i>T</i>	20.00 °C
speed at duty point <i>n hydr.</i> @ <i>OP</i>	2,978 1/min

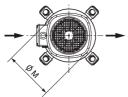


Dimensions and dimensions drawings

Helix V 16, PN 25



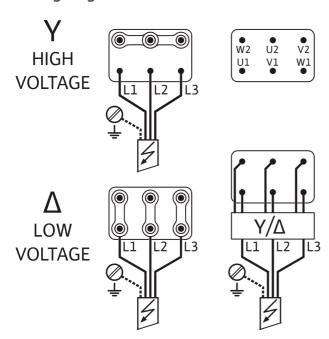




Dimensions H	1058 mm
Dimensions H1	159 mm
Dimensions L1	150 mm
Dimensions X	149 mm
Dimensions \emptyset g	232 mm
Pipe connection on the suction side <i>DNs</i>	DN 50
Pipe connection on the discharge side <i>DNd</i>	DN 50
Motor diameter <i>X</i>	149 mm



Wiring diagram





Tender text

Highly efficient high-pressure multistage centrifugal pump in vertical design with in-line connections.

The non self-priming high-pressure multistage centrifugal pump has a compact overall design and is particularly efficient and easy to maintain. The pump shaft and the motor shaft of the IEC standard motor are connected by means of a clamp coupling.

A separate lantern roller bearing ensures optimum admission of axial thrusts. Intermediate bearings in the hydraulics and corrosion-resistant shaft due to stainless steel sleeve ensure a long service life. Special, permanently attached lifting eyes enable easy pump installation.

The pump is suitable for water supply, water distribution and pressure boosting, industrial recirculation systems, process water and closed cooling circuits. It can also be used in fire extinguishing systems, washing systems as well as for irrigation.

Special features/product advantages

- > Efficiency-optimised, laser-welded 2D/3D hydraulics, flow and degassing optimised
- > Corrosion-resistant impellers, guide vanes and stage housings
- > Flow and NPSH-optimised pump housing
- Maintenance-friendly design with particularly robust coupling guard
- Drinking water approval for pumps with parts that come in contact with the fluid made of stainless steel (EPDM version)

Scope of delivery

- > Wilo-Helix V high-pressure multistage centrifugal pump
- > Installation and operating instructions
- > PN16 version with oval flanges: Stainless steel counter flanges with the corresponding screws, nuts and gaskets

Design notes

- Motor protection for 3-phase motor is to be provided on request or onsite
- > Single-phase AC motor equipped with built-in thermal motor protection and capacitor
- > In its standard position, the terminal box is aligned with the suction flange, but this can be changed if necessary
- > The Wilo-Helix V is equipped with a user-friendly mechanical seal in a cartridge design and standard gasket for easy maintenance
- > The spacer coupling (from ≥ 7.5 kW) allows the mechanical seal to be replaced without removing the motor
- > The flexible lantern design, which is available in two alignments, enables direct access to the mechanical seal
- > For pump versions PN16, PN25 and Pmax = 30 bar, round counter flanges in cast iron or stainless steel, screws, nuts and gaskets are available as accessories
- > Bypass sets are available as accessories
- The Wilo-Helix V(F) VdS certified version upon request

Operating Data

Product data

Min. fluid temperature T_{\min}	-15 °C
Max. fluid temperature $T_{\rm max}$	90 °C
Max. ambient temperature $T_{\rm max}$	50 °C
Maximum operating pressure PN	25 bar
Maximum inlet pressure <i>p inl</i>	10 bar
Minimum efficiency index (MEI)	≥0.5



Motor data

Mains connection	3~400 V, 50 Hz
Voltage tolerance	±10 %
Rated power P ₂	5.5 kW
Motor efficiency class	IE3
Rated current $I_{\rm N}$	10.5 A
Rated speed <i>n</i>	2900 1/min
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Motor efficiency 50% $\eta_{\rm M}$ 50%	87.1 %
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Insulation class	F
Protection class	IP55

Materials

Pump housing	Stainless steel
Impeller	Stainless steel
Shaft	Stainless steel
Shaft seal	BQ1VGG
Gasket material	FKM

Installation dimensions

Pipe connection on the suction side <i>DNs</i>	DN 50
Pipe connection on the discharge side <i>DNd</i>	DN 50

Ordering information

Brand	Wilo
Product description	HELIX V1607-2/25/V/KS/400-50
Net weight, approx. m	69 kg
Article number	4150666



Installation type

In inlet mode

Counter flange (stainless steel)
Stainless steel counter flange (round, 2 piece), PN 25/PN 40 DN 50

4038589

Counter flange (steel)

Steel counter flange (round, 2 piece), PN 25/PN 40 DN 50

4038588

Stainless steel compensator

Stainless steel compensator DN 50, PN 16

2514241

Baseplate

Base plate

4157154

Level control with fault signal

Float switch WAO

Float switch WAO 65, 10 m cable	2006027
Float switch WAO 65, 20 m cable	2004429
Float switch WAO 65, 30 m cable	2004430
Float switch WAO 65, 5 m cable	503211595

Level control without fault signal

Float switch WAO

Float switch WAO 65, 10 m cable	2006027
Float switch WAO 65, 20 m cable	2004429
Float switch WAO 65, 30 m cable	2004430
Float switch WAO 65, 5 m cable	503211595

Pressure control with fault signal

Wilo-EFC

5.5 3x380-480V 50/60Hz IP55	2193437

Sensor kit

Sensor kit 2501886