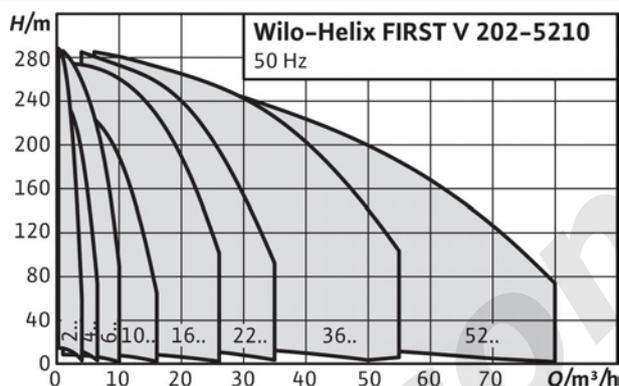


## Series description: Wilo-Helix FIRST V



Pump curves in accordance with ISO 9906: 2012 3B

### Design

<b>06</b>	Number of impellers
<b>2</b>	Number of trimmed impellers
<b>5</b>	Pump material 5 = Pump housing EN-GJL-250 cathaphoretic-coated
<b>25</b>	Hydraulics 1.4307 (AISI 304L) Maximum operating pressure in bar 16 = Helix FIRST V 2.. to 16...: 16 bar: Oval flange PN 16  Helix FIRST V 22.. to 52...: 16 bar: DIN round flange PN 16 25 = Helix FIRST V 2.. to 16.. -5/25/E/S/...: 16 bar: DIN round flange PN 25  Helix FIRST V 2.. to 16.. -5/25/E/KS/...: 25 bar: DIN round flange PN 25  Helix FIRST V 22.. to 52...: 25 bar: DIN round flange PN 25 30 = Helix FIRST V 2.. to 52...: 30 bar: DIN round flange PN 40
<b>E</b>	Seal type E = EPDM
<b>K</b>	Cartridge type mechanical seal
<b>S</b>	The coupling guard is on a line with suction and discharge ports of the pump.
<b>400</b>	Connection voltage in V
<b>50</b>	Frequency in Hz

### Special features/product advantages

- Efficiency-optimised, laser-welded, optimised 2D/3D hydraulics
- Corrosion-resistant impellers, guide vanes and stage housings
- Flow and degassing-optimised hydraulic parts
- Reinforced pump housing, flow and NPSH optimised
- Space-saving and easy maintenance thanks to compact design
- Particularly sturdy coupling guard

### Technical data

- Minimum Efficiency Index (MEI)  $\geq 0.7$
- Electrical connection: 3–400 V ( $\pm 10\%$ ), 50 Hz
  - $\leq 4$  kW 230 V/ 400 V;  $\Delta/Y$
  - $> 4$  kW 400 V/ 690 V;  $\Delta/Y$
- Fluid temperature range:  $-20$  to  $120$  °C
- Max. operating pressure: 16, 25 or 30 bar
- Protection class: IP 55
- Max. ambient temperature:  $-15$  °C –  $+40$  °C
- Helix FIRST V 2 – 16: PN 16 with oval flanges, PN 25/PN 40 with round flanges according to ISO 2531 and ISO 7005
- Helix FIRST V 22 – 52: PN 16/PN 25/PN 40 with round flanges according to ISO 2531 and ISO 7005

### Equipment/function

- Corrosion-resistant impellers, guide vanes and stage housings

### Description/design

- Pumps can be adapted to specific circumstances on request (e.g. motor protection, ATEX, extended ambient temperature range).

### Materials

- Impellers, stage housings and guide vanes of stainless steel 1.4307 (AISI 304L)
- Pump housing made of EN-GJL-250, cathaphoretically coated
- Shaft made of stainless steel 1.4057 (AISI 304L)
- Sleeve under the mechanical seal 1.4404 (AISI 316L)
- O-Ring made of EPDM
- Jacket pipe made of stainless steel 1.4301 (AISI 304)

### Scope of delivery

- Helix FIRST V high-pressure multistage centrifugal pump
- Installation and operating instructions
- Helix FIRST 2 – 16 (version PN16 with oval flanges): Cast iron counter flanges with the corresponding screws, nuts and gaskets

### General notes - ErP (ecological design-) directive

The benchmark for most efficient water pumps is  $MEI \geq 0.70$ . 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](http://www.europump.org/efficiencycharts). Pumps with power consumption  $> 150$  kW or a volume flow  $QBEP < 6$  m<sup>3</sup>/h are not subject to the Ecodesign Directive for water pumps. Therefore, no MEI value is shown.