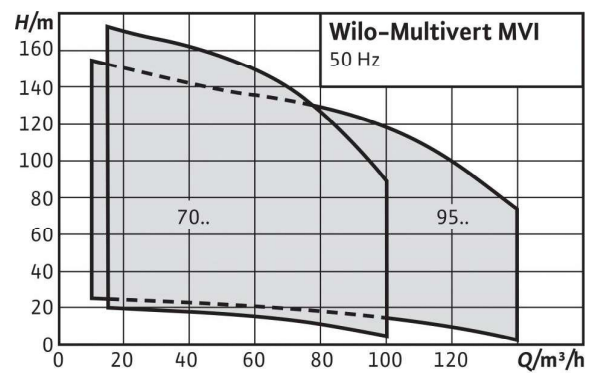


Series description: Wilo-Multivert MVI



Pump curves in accordance with ISO 9906: 2012 3B

Similar to figure



Design

Non-self-priming, multistage high-pressure centrifugal pump in vertical design with in-line connections.

Application

Series description: Wilo-Multivert MVI

Application

- Water supply and pressure boosting
- Fire extinguishing systems
- Boiler feed
- Industrial circulation systems
- Process engineering
- Cooling water circulation systems
- Washing and sprinkling systems

Type key

Example:

MVI

70

02

1

3

MVI 7002/1-3/16/E/3-400-50-2

Vertical high-pressure multistage centrifugal pump

Flow rate in m³/h

Number of impellers

Number of trimmed impellers

Material

1 = 1.4301 (AISI 304);

[only MVI 8.. and smaller]

2 = 1.4404 (AISI 316L)

3 = pump housing EN-GJL-250 (cataphoretic coating), hydraulics 1.4301 (AISI 304);

[only MVI 70.. and 95..]

16

Flange type

16 = flange PN16 (round or oval)

25 = flange PN25 (round or oval)

P = Victaulic coupling [only MVI 8.. and smaller]

E

Gasket type

E = EPDM

V = FKM (Viton)

3

1 = 1~ (alternating current);

[only MVI 8.. and smaller]

3 = 3~ (three-phase current)

Connection voltage in V

400

50

2

Frequency in Hz

Number of poles

Special features/product advantages

- Corrosion-resistant impellers, diffusers and stage housings
- Drinking water approval for all components that come in contact with the fluid (EPDM version)

Technical data

- Minimum Efficiency Index (MEI) ≥ 0.4
- Electrical connection:
 - 1~230 V ($\pm 10\%$), 50 Hz only MVI 1.. – 8..
 - 3~400 V ($\pm 10\%$), 50 Hz
 - ≤ 4 kW 230 V/ 400 V; Δ/Y
 - > 4 kW 400 V/ 690 V; Δ/Y
- Fluid temperature of -15 to +120 °C (with EPDM), (-15 to +90 °C with FKM)
- Operating pressure max. 16/25 bar
- Max. inlet pressure of 10 bar
- Protection class IP 55
- Flange connections:
 - MVI 1.. – 8.., PN 16; oval flange (G1 – G2)
 - MVI 1.. – 8.., PN 25: Round flange (DN25 – DN40)
- MVI 1.. – 8.., PN 25: with optional Victaulic connections
- MVI 70../95.., PN 16/PN 25: Round flange (DN 100)

Equipment/function

- Stainless steel pump in inline design (only MVI 1.. to 8..)
- MVI 1.. to 8..: PN16 version with oval flange; PN25 version with round flange
- MVI 70.. and 95..: PN16 and PN25 version with round flange

Materials

MVI 1.. to 8..:

- Impellers and stage chambers of stainless steel 1.4301 (AISI 304) (1.4404 (AISI 316) for aggressive media)
- Pump housing of stainless steel 1.4301 (AISI 304) (1.4404 (AISI 316) for aggressive media)
- Shaft, depending on type, of stainless steel 1.4301 (AISI 304) (1.4404 (AISI 316) for aggressive media)
- Gasket of EPDM/FKM (Viton)
- Housing cover of stainless steel 1.4301 (AISI 304) (1.4404 (AISI 316) for aggressive media)
- Housing bottom of stainless steel 1.4301 (AISI 304) (1.4404 (AISI 316) for aggressive media)
- Mechanical seal of B-carbon/tungsten carbide, SiC/carbon
- Jacket pipe of stainless steel 1.4301 (AISI 304) (1.4404 (AISI 316) for aggressive media)
- Bearing of tungsten carbide
- Baseplate EN-GJL-250

MVI 70../95..:

- Impellers of stainless steel 1.4408 (AISI 316)
- Stage chambers made of 1.4301 (AISI 304) stainless steel
- Pump housing made of cataphoretic-coated grey cast iron EN-GJL 250
- Shaft 1.4057 (AISI 431) stainless steel
- Gasket EPDM
- Housing cover made of 1.4301 (AISI 304) stainless steel
- Housing bottom made of 1.4301 (AISI 304) stainless steel
- Mechanical seal of B-carbon/tungsten carbide, SiC/carbon
- Pressure shroud made of 1.4301 (AISI 304) stainless steel
- Bearing of tungsten carbide

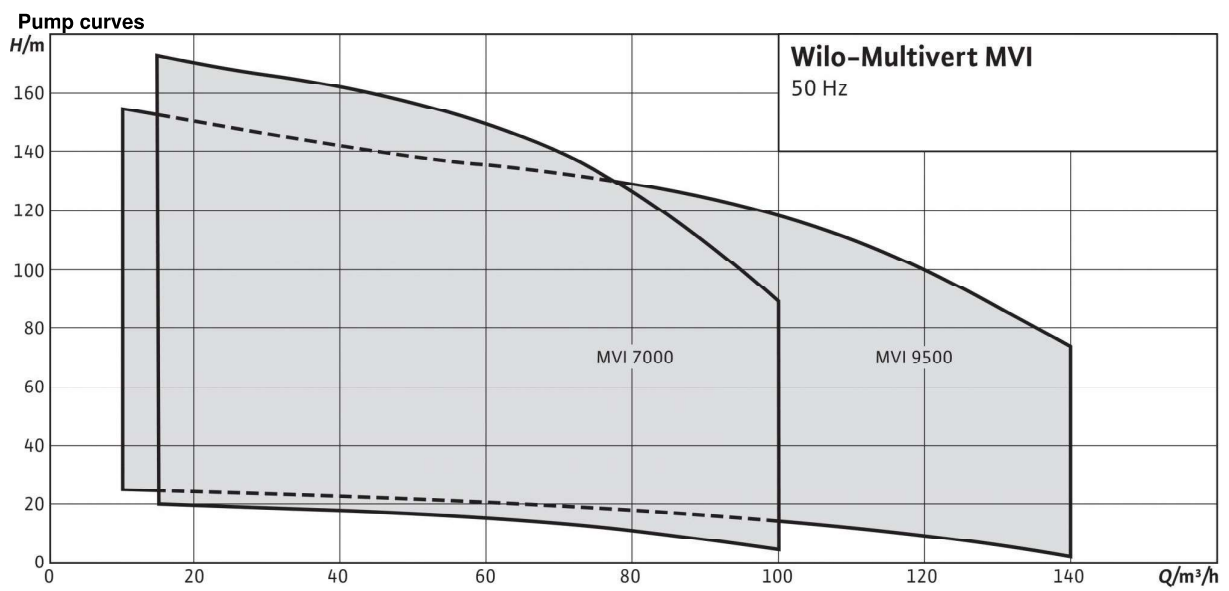
Scope of delivery

- MVI high-pressure multistage centrifugal pump
- MVI 1.. – 8..: Oval counter flanges with corresponding screws and O-rings (PN16 variant)
- Installation and operating instructions

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. Pumps with power consumption > 150 kW or a volume flow QBEP < 6 m³/h are not subject to the Ecodesign Directive for water pumps. Therefore, no MEI value is shown.

Duty chart: Wilo-Multivert MVI



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