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## ECONOMY MHI



### MULTISTAGE PUMP

WILO

#### Application

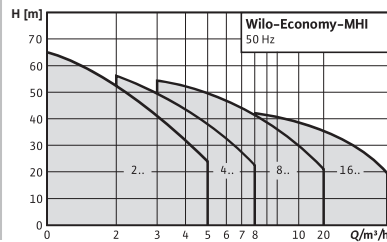
- Water supply and pressure boosting
- Irrigation
- Heating
- In industrial systems (foodstuff industry, renewable energies, shipbuilding): Cooling and washing system

#### Equipment/function

- Stainless steel in monobloc design
- Threaded connection
- Single-phase or three-phase AC motor
- Single-phase AC motor equipped with built-in thermal motor protection (with automatic restart)

#### Technical data

- Mains connection 1~230 V (±10 %), 50 Hz or optionally 220 V (±10 %), 60 Hz
- Mains connection: 3~230 V (±10 %), 50 Hz (Δ) or optionally 265 V (±10 %), 60 Hz (Δ), 400 V (±10 %), 50 Hz (Y) or optionally 460 V (±10 %), 60 Hz (Y); same motor also: 3~220 V (±10 %), 60 Hz (Δ), 380 V (±10 %), 60 Hz (Y);
- Fluid temperature of -15 to +110 °C
- Max. operating pressure 10 bar
- Max. inlet pressure of 6 bar
- Protection class 1~: IPX4; 3~: IP54
- Nominal diameters of pipe connections: Rp 1, Rp 1 ¼ or Rp 1 ½, depending on type



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## MULTIVERT MVI



### MULTISTAGE PUMP

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#### Application

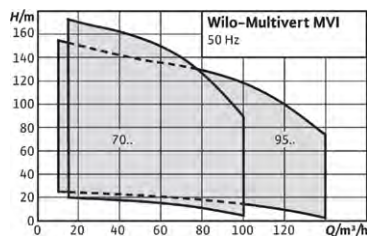
- Water supply and pressure boosting
- Fire extinguishing systems
- Boiler feed
- Industrial circulation systems
- Process engineering
- Cooling water circulation systems
- Washing and sprinkling systems

#### Equipment/function

MVI 70.. and 95..: PN16 and PN25 version with round flange

#### Technical data

- Electrical connection:
  - ⇒ 3~400 V (±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 70../95.. PN 16/PN 25: Round flange (DN 100)



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## HELIX V



### MULTISTAGE PUMP

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#### Application

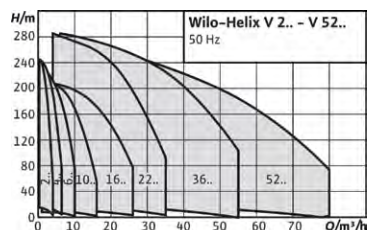
- Water supply and pressure boosting
- Industrial circulation systems
- Process water
- Closed cooling circuits
- Fire extinguishing systems
- Washing systems
- Irrigation

#### Technical data

- Electrical connection:
  - ⇒ 3~400 V (±10 %), 50 Hz
  - ⇒ ≤ 4 kW 230 V/ 400 V; Δ/Y
  - ⇒ > 4 kW 400 V/ 690 V; Δ/Y
- 1~ 230 V (±10 %), 50 Hz, only Wilo-Helix V 2, 4, 6, 10
- Fluid temperature range:
  - ⇒ Helix V 2 – 16 (EPDM): -30 to 120 °C (130 °C on request)
  - ⇒ Helix V 2 – 16 for aggressive media (FKM): -15 to 90 °C
  - ⇒ Helix V22 – 52 (EPDM): -20 to 120 °C (130 °C on request)
  - ⇒ Helix V22 – 52 for aggressive media (FKM): -15 to 90 °C
- Max. operating pressure: 16/25/30 bar
- Max. inlet pressure of 10 bar
- Protection class: IP 55
- Max. ambient temperature: -15 °C – +50 °C (extended temperature ranges on request)
- Available versions:
  - ⇒ Helix V 2 – 16: PN 16 with oval flanges, PN 25/PN 40 with round flanges according to ISO 2531 and ISO 7005 (Victaulic coupling on request)
  - ⇒ Helix V 22 – 52: PN 16/PN 25/PN 40 with round flanges according to ISO 2531 and ISO 7005

#### Equipment/function

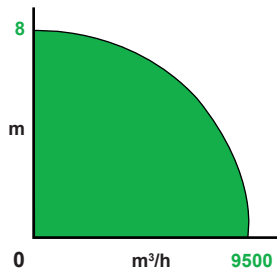
Corrosion-resistant impellers, guide vanes and stage housings



## WILO

## PROPELLER PUMP

<b>Discharge</b>	700 – 1100 mm
<b>Q</b>	up to 9,500 m <sup>3</sup> /h
<b>H</b>	up to 8 m
<b>T</b>	up to +40°C
<b>Speed</b>	585 - 950 rpm



**Type:** High flow, low head pump

**Liquid type:** Clean water or water with fine particles

**Application:** Cooling water, rain water, flood prevention, irrigation

**Materials:** Casing: Cast Iron  
Propeller: Stainless Steel  
Motor housing: Cast Iron  
Shaft seal: Mechanical Seal

**Impeller Design:** Axial Flow Impeller

**Special features:**

- special coating
- propeller angle adjustable by hand

**Motor:** 3~: up to 285 kW

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## WILO

## SUBMERSIBLE MIXER AND FLOW GENERATOR

**Fluid Temp.** +40°C

### Submersible Mixer

<b>Diameter:</b>	200 to 1200 mm
<b>Motor:</b>	4, 6, 8-pole direct drive or 2, 4, 6, 8-pole with planetary gear-reducer
<b>Speed:</b>	98 - 1410 rpm
<b>Thrust:</b>	max. 3940 N

### Flow Generator

<b>Diameter:</b>	1600 to 2600 mm
<b>Motor:</b>	4, 6, 8-pole with planetary gear-reducer
<b>Speed:</b>	24 - 77 rpm
<b>Thrust:</b>	max. 4030 N

**Liquid type:** Raw wastewater, Activated Sludge

**Application:** Equalisation Basin, Denitrification basin, Bio-P removal, Sludge Storage Tank

**Materials:**

Casing: Cast Iron  
Impeller: Cast Iron, PUR or Stainless Steel  
Shaft seal: Mechanical Seal

**Impeller Design:** 2 or 3-blade propeller

**Special features:**

- self-cleaning propeller
- ATEX or FM approval
- series upgrading of motor to IE

**Motor:** up to 18.5 kW

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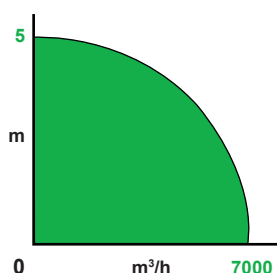
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## RECIRCULATION PUMP

<b>Diameter</b>	200 to 800 mm
<b>Q</b>	up to 7,000 m <sup>3</sup> /h
<b>H</b>	up to 5 m
<b>T</b>	up to +40°C
<b>Speed</b>	180 - 1417 rpm



**Type:** High flow, very low head

**Liquid type:** Waste water, Activated Sludge

**Application:** Transfer of raw water, activated sludge, cooling water between nearby tanks

**Materials:**

Casing: Cast Iron  
Propeller: Stainless Steel or PUR  
Shaft seal: Mechanical Seal

**Impeller Design:** 2, 3 or 4-blade propeller

**Special features:**

- direct driven or with planetary gear reducer

**Motor:** 3~: up to 18.5 kW

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RZP

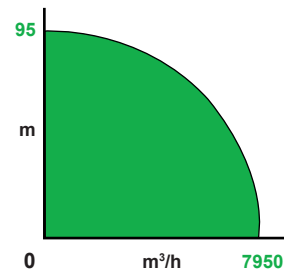




## MEDIUM AND LARGE SEWAGE PUMP

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<b>Discharge</b>	DN 80 – 600
<b>Q</b>	up to 7950 m <sup>3</sup> /h
<b>H</b>	up to 95 m
<b>T</b>	+3°C to +40°C
<b>Solids passage</b>	45-200 mm
<b>Speed</b>	585 to 2900 rpm



**Type:** Sewage pump

**Liquid type:** Wastewater, sewage, soiled water

**Application:** wastewater, Activated Sludge, drainage

**Materials:**

Casing: Cast Iron, Ductile Iron  
Impeller: Cast Iron, Ductile Iron  
Motor housing: Cast-Iron

**Shaft seal:** Mechanical Seal

**Impeller Design:** Vortex, Single -,  
Two – or Three-Channel, Solid

**Special features:** special materials, abrasion coating

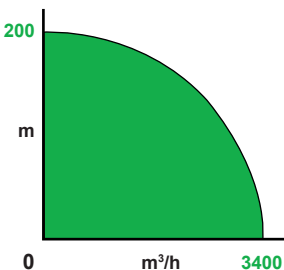
**Motor:** 3~: 0.5 to 670 kW



## SPLIT CASE PUMP

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<b>Discharge</b>	DN 50 – 400
<b>Q</b>	up to 3400 m <sup>3</sup> /h
<b>H</b>	up to 200 m
<b>T</b>	-8°C to +120°C
<b>Speed</b>	1000 - 3000 rpm



**Type:** Axial Split Case Pump

**Liquid type:** Clean water

**Application:** cooling water, water supply,  
power plant, industrial process water

**Materials:**

Casing: Cast Iron, Nodular Cast Iron, Stainless Steel  
Impeller: Cast Iron, Stainless Steel, Bronze

**Shaft seal:** Mechanical Seal or Gland Packing

**Impeller Design:** Double Suction

**Special features:** Low vibration and low noise,  
some models double impeller

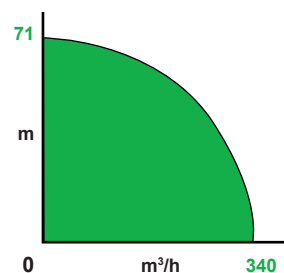
**Motor:** 3~: up to 630 kW



## CONTRACTOR DRAINAGE PUMP

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<b>Discharge</b>	DN 1¼" – 6" Storz or hose connection
<b>Q</b>	up to 340 m <sup>3</sup> /h
<b>H</b>	up to 71 m
<b>T</b>	up to +40°C
<b>Solids passage max.</b>	45 mm
<b>Speed</b>	2900 rpm



**Type:** Submersible drainage pump

**Liquid type:** Wastewater, soiled water

**Application:** Excavation pit, basin and sump,  
flooded basins, fountains

**Materials:** Casing: Cast Iron or Aluminium  
Impeller: Cast Iron or Abrasite  
Motor housing: Aluminium or Cast-Iron

**Shaft seal:** Double Mechanical Seal

**Impeller Design:** Open Channel

**Special features:** abrasion resistant pump housing,  
option for Storz-coupling for pressure hose,  
high service life, slurping operation

**Motor:** 1~: 0.75 to 1.3 kW  
3~: 0.75 to 22 kW