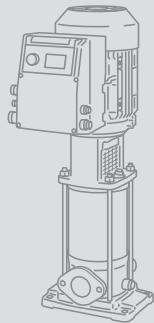
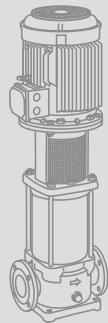
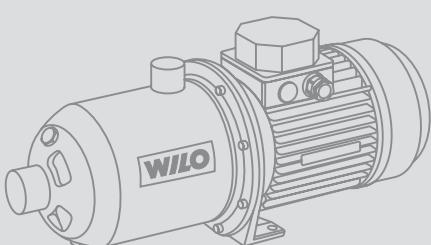
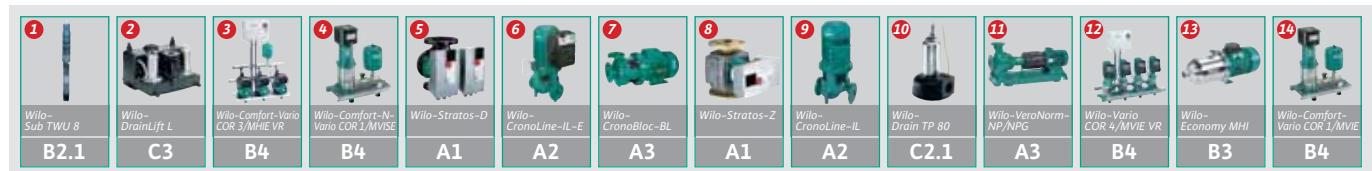
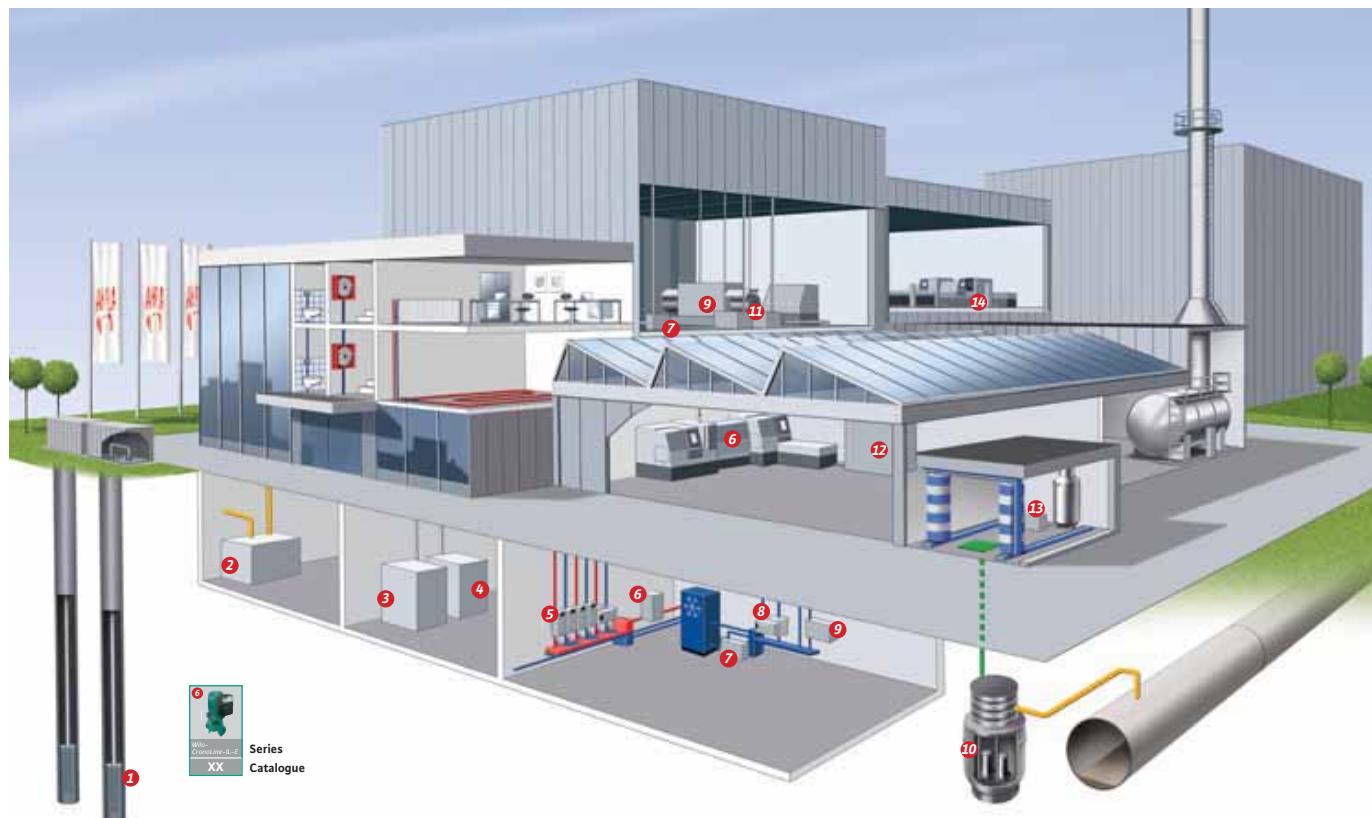


Catalogue Water Supply

High-Pressure Multistage Centrifugal Pumps

Pumps and
Accessories





Program overview and fields of application

Water supply

High-pressure multistage centrifugal pumps

Pump type	Construction	Main field of application
	Self-priming Non-self-priming Fixed speed	Speed-controlled

High-pressure multistage centrifugal pumps

Single-head pumps	Wilo-Economy MHI	–	•	•	–	S/M/C	–	S/M/C	S/M/C	S/M/C	S/M/C
	Wilo-Economy MHIL	–	•	•	–	S/M/C	–	S/M/C	–	S/M/C	S/M/C
	Wilo-Multivert MVIS	–	•	•	–	–	–	–	–	–	–
☞	Wilo-Multivert MVI	–	•	•	–	S/M/C	–	S/M/C	S/M/C	S/M/C	S/M/C
☞	Wilo-Multivert MVL	–	•	•	–	S/M/C	–	S/M/C	S/M/C	S/M/C	S/M/C
	Wilo-Economy MHIE	–	•	–	•	S/M/C	–	S/M/C	S/M/C	S/M/C	S/M/C
☞	Wilo-Multivert MVISE-2G	–	•	–	•	–	–	–	–	–	–
	Wilo-Multivert MVIE	–	•	–	•	S/M/C	–	S/M/C	S/M/C	S/M/C	S/M/C

☞ New in the program or series expansion or modification

Program overview and fields of application

WILO

Water supply

High-pressure multistage centrifugal pumps

Main field of application



-	-	-	M/C	M/C	M/C	M/C	M/C	M/C	M/C	M/C	-	-	24
-	-	-	M/C	M/C	-	M/C	M/C	M/C	M/C	M/C	-	-	34
-	-	-	-	-	S/M/C	S/M/C	-	-	-	-	-	-	44
-	-	-	M/C	M/C	M/C	S/M/C	S/M/C	M/C	M/C	M/C	M/C	M/C	54
-	-	-	M/C	M/C	M/C	S/M/C	S/M/C	M/C	M/C	M/C	M/C	M/C	90
-	-	-	M/C	M/C	M/C	S/M/C	S/M/C	M/C	M/C	M/C	M/C	M/C	102
-	-	-	-	-	S/M/C	S/M/C	-	-	-	-	-	-	116
-	-	-	M/C	M/C	M/C	S/M/C	S/M/C	M/C	M/C	M/C	M/C	M/C	130

Legend:

- S** Single- and two-family houses
M Multifamily houses
C Commercial
• Applies
- Self-sufficient Water supply
 - Rainwater utilisation (as compact system with extensible storage tanks)
 - Rainwater utilisation (in conjunction with underground tanks or cisterns)
 - Sprinkling
 - Irrigation
 - Spraying
 - Well and cistern water supply
 - Lowering of ground water levels
 - Swimming-pool water circulation
 - Cooling water circulation systems
 - Cold water circulation systems
 - Pure water circulation systems
 - Potable water supply
 - Pressure boosting systems
 - Fire-extinguishing water supply
 - Washing systems
 - Industrial applications
 - Boiler feed
 - Process technology

General notes and abbreviations

4

Single-head pumps

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- Wilo-Economy MHI, Economy MHIL, Multivert MVIS
- Wilo-Multivert MVI, Multivert MVIL
- Wilo-Economy MHIE, Multivert MVISE-2G
- Wilo-Multivert MVIE, accessories

Accessories

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Single-head pumps

Accessories

General notes and abbreviations

Abbreviations and what they mean

Abbreviation	Meaning	Abbreviation	Meaning
1~	1-phase alternating current	MOT	Motor module (drive motor + impeller + terminal box/electronics module) for replacement in the TOP .. series
1/min	Revolutions per minute (1/min)	PLR	Pump master computer, Wilo-specific data interface
3~	3-phase current	PT 100	Platinum temperature sensor with a resistance value of 100 Ω at 0°C
Autopilot	Automatic adjustment of pump performance during setback phases, e.g. boiler setback mode overnight	Q (= \dot{V})	Flow volume
blsf	Blocking current-proof, no motor protection	SBM	Run signal or collective run signal
DM	3-phase AC motor	SSM	Fault signal or collective fault signal
Δp -c	Control mode for constant differential pressure	Control input "0 – 10 V"	Analogue input for external activation of functions
Δp -T	Control mode for differential-pressure control as a function of fluid temperature	Wilo-Control	Building automation management with pumps and accessories
Δp -v	Control mode for variable differential pressure	TrinkwV 2001	German potable water ordinance of 2001 (valid from 01.01.2003)
ΔT	Control mode for differential temperature	VDI 2035	VDI guideline for the prevention of damage in hot-water heating installations
EM	1-phase AC motor	WRAS	Water regulations advisory scheme
EnEV	German energy-saving act (Energie-Einsparverordnung)	WSK	Thermal winding contacts (in motor for monitoring winding temperature, full motor protection through additional tripping unit)
ECM technology	Electronically commutated motor with new wet rotor encapsulation, newly developed glandless drive concept for high-efficiency pumps		Operating mode of twin-head pumps: Individual operation of the respective operating pump
Ext. Aus	Control input "Overriding Off"		Operating mode of twin-head pumps: Parallel operation of both pumps
Ext. Min	Control input "Overriding Min", e.g. for setback mode without autopilot		No. of poles for the pumps: 2-pole
FI	Residual-current device		No. of poles for the pumps: 4-pole
GA	Building automation		No. of poles for the pumps: 6-pole
GRD	Mechanical seal		
GTW	Special cast iron: white malleable cast iron		
$^{\circ}d$	Degree of German water hardness, unit for assessing water hardness		
H	Delivery head		
IF	Interface		
Inox	Stainless steel		
Int. MS	Internal motor protection: Pumps with internal protection against unacceptably high winding temperatures		
IR	Infrared interface		
KDS	Capacitors		
KLF	PTC thermistor sensor		
KTL coating	Cataphoretic painting: Paintwork with high adhesive strength for long-lasting corrosion protection		
KTW	Authorisation for products with plastics, for utilisation in potable water applications		
LON	Local operating network (open, non-manufacturer-dependent, standardised databus system in LON-WORKS networks)		

Wear and tear

Pumps or parts of pumps are subject to wear in accordance with state-of-the-art technology (DIN 31051/DIN-EN 13306). This wear may vary depending on operating parameters (temperature, pressure, water conditions) and the installation/usage situation and may result in the malfunction or failure at different times of the aforementioned products/components, including their electrical/electronic circuitry. Wearing parts are all components subject to rotary or dynamic strain, including electronic components under tension, in particular:

- seals/gaskets (including rotating mechanical seals), seal ring
- bearings and shafts
- stuffing boxes
- capacitors
- relays/contactors/switches
- electronic circuits, semiconductor components, etc.
- impellers
- wearing rings/wearing plates

We do not accept liability for faults or defects arising from natural wear and tear.

WILO – General terms of delivery and service

The latest version of our General terms of delivery and service can be found on the Internet at

www.wilo.com

High-Pressure Multistage Centrifugal Pumps

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High-pressure multistage centrifugal pumps

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High-Pressure Multistage Centrifugal Pumps



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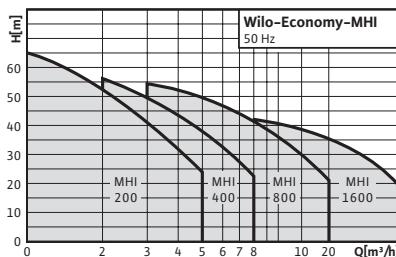
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High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Series overview Wilo-Economy MHI, Economy MHIL, Multivert MVIS

Series: Wilo-Economy MHI

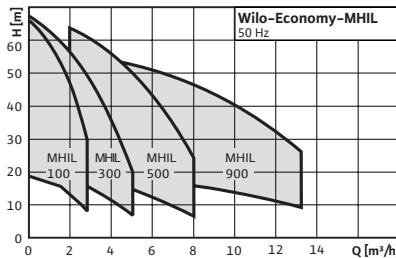


> Non self-priming pump for:

- Water supply and pressure boosting
- Commerce and industry
- Cooling water circulation systems
- Washing and sprinkling systems

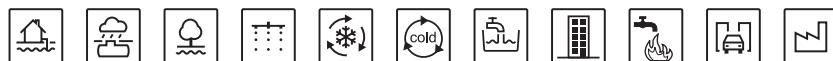


Series: Wilo-Economy MHIL

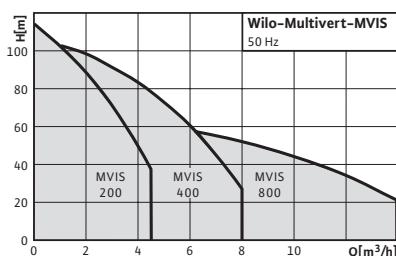


> Non self-priming pump for:

- Water supply and pressure boosting
- Commerce and industry
- Washing and spraying systems
- Rainwater utilisation
- Cooling and cold water circuits



Series: Wilo-Multivert MVIS



> Non self-priming pump for:

- Water supply and pressure boosting systems



High-Pressure Multistage Centrifugal Pumps



Single-head pumps

Series overview Wilo-Economy MHI, Economy MHIL, Multivert MVIS

Series: Wilo-Economy MHI

>Product advantages

- All parts that have contact with the fluid are made of stainless steel 1.4301 (AISI 304)
- Compact construction form
- All relevant components have KTW and WRAS authorisation

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Series: Wilo-Economy MHIL

>Product advantages

- Stage housing and impellers in stainless steel 1.4301 (AISI 304)
- Base and lantern made of grey cast iron EN-GJL-250, KTL-coated
- All relevant components have KTW and WRAS authorisation
- Version in single-phase (EM) and three-phase current (DM)

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Series: Wilo-Multivert MVIS

>Product advantages

- Low-noise (up to 20 dB [A] quieter than conventional pumps)
- All parts that have contact with the fluid are corrosion-resistant
- Glandless pump technology
- All relevant components have KTW and WRAS authorisation

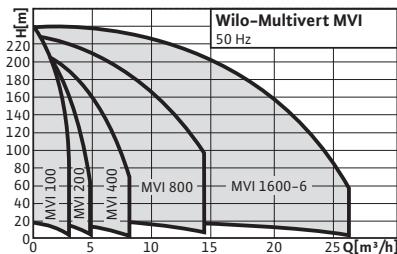
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High-Pressure Multistage Centrifugal Pumps

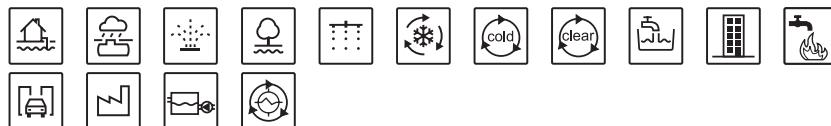
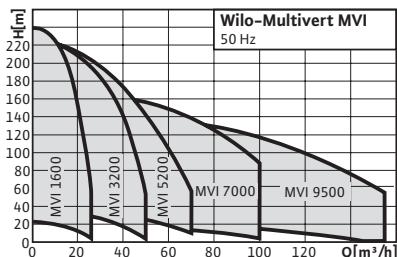
Single-head pumps

Series overview Wilo-Multivert MVI, Multivert MVIL

Series: Wilo-Multivert MVI

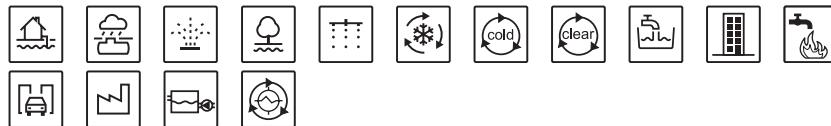
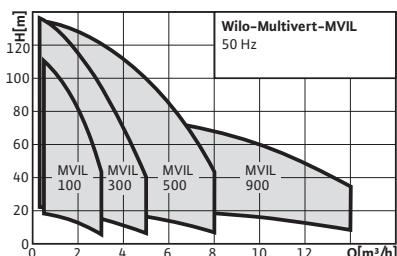


Series expansion!



Series: Wilo-Multivert MVIL

New in the programme!



> Non self-priming pump for:

- Water supply and pressure boosting
- Firefighting systems
- Boiler feed
- Industrial circulation systems
- Process technology
- Cooling water circulation systems
- Washing and sprinkling systems

Series overview Wilo-Multivert MVI, Multivert MVIL

Series: Wilo-Multivert MVI

> Product advantages

- All parts that have contact with the fluid are corrosion-resistant
- Drive via IEC standard motors
- All relevant components have KTW and WRAS authorisation
- All parts that have contact with the fluid are made of stainless steel 1.4301 (AISI 304).
Exception: MVI 16.. to 95..: Pump base EN-GJL-250, cataphoretic coating.
Other materials optional.

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• Terminal diagram, motor data	87
• Motor data	84
• Dimensions, weights	88

Series: Wilo-Multivert MVIL

> Product advantages

- Stage housing and impellers in stainless steel 1.4301 (AISI 304)
- Base and lantern made of grey cast iron EN-GJL-250, KTL-coated
- All relevant components have KTW and WRAS authorisation
- Version in single-phase (EM) and three-phase current (DM)

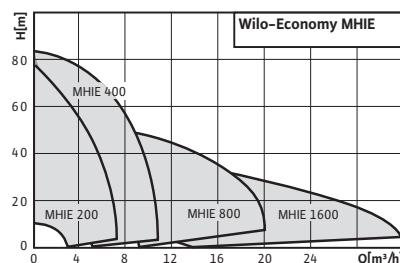
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High-Pressure Multistage Centrifugal Pumps

Single-head pumps

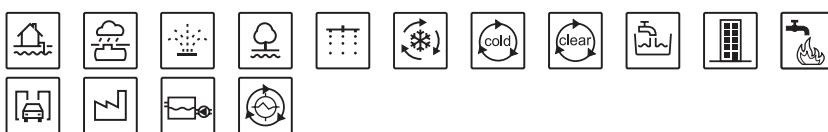
Series overview Wilo-Economy MHIE, Multivert MVISE-2G

Series: Wilo-Economy MHIE



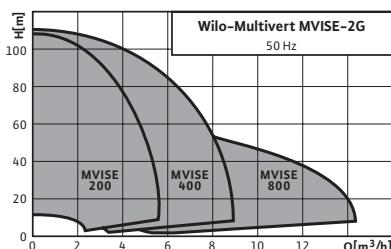
> Non self-priming pump with adapted frequency converter for:

- Water supply and pressure boosting
- Firefighting systems
- Boiler feed
- Industrial circulation systems
- Process technology
- Cooling water circulation systems
- Washing and sprinkling systems



Series: Wilo-Multivert MVISE-2G

New in the programme!



> Non self-priming pump with adapted frequency converter for:

- Water supply and pressure boosting systems



Series overview Wilo-Economy MHIE, Multivert MVISE-2G

Series: Wilo-Economy MHIE

> Product advantages

- Easy commissioning
- All parts that have contact with the fluid are made of stainless steel 1.4301 (AISI 304)
- Compact construction form
- Integrated frequency converter
- Full motor protection
- All relevant components have KTW and WRAS authorisation

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Series: Wilo-Multivert MVISE-2G

> Product advantages

- Easy commissioning
- Glandless pump technology
- Low-noise (up to 20 dB [A] quieter than conventional pumps)
- Integrated frequency converter
- All parts that have contact with the fluid are made of stainless steel 1.4301 (AISI 304)
- All relevant components have KTW and WRAS authorisation

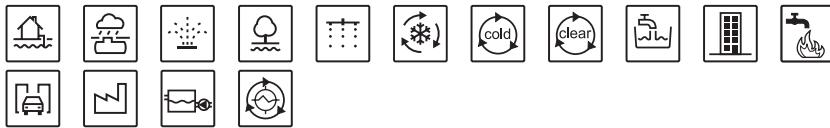
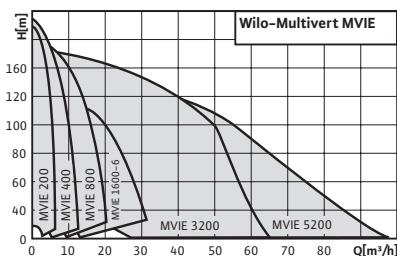
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High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Series overview Wilo-Multivert MVIE, Accessories

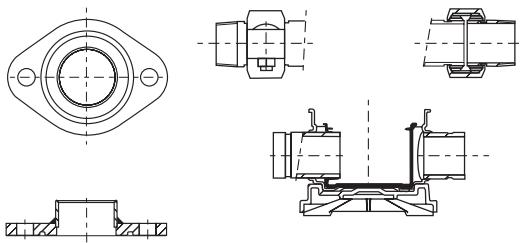
Series: Wilo-Multivert MVIE



> Non self-priming pump with adapted frequency converter for:

- Water supply and pressure boosting
- Firefighting systems
- Industrial circulation systems
- Process technology
- Cooling water circulation systems
- Washing and sprinkling systems

Accessories



- > Mating flange
> Victaulic couplings
> etc.

Series overview Wilo-Multivert MVIE, Accessories

Series: Wilo-Multivert MVIE

> Product advantages

- Easy commissioning
- Integrated frequency converter
- Wide regulation bandwidth through regulation frequencies ranging from 26 to a maximum of 65 Hz
- All parts that have contact with the fluid are made of stainless steel 1.4301 (AISI 304).
Exception: MVIE 16.. to 52.: Pump base made of EN-GJL-250, cataphoretic coating.
Other materials optional.
- Full motor protection
- All relevant components have KTW and WRAS authorisation

> Additional information:

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High-Pressure Multistage Centrifugal Pumps

Single-head pumps

	Wilo-Economy MHI	Wilo-Economy MHIL	Wilo-Multivert MVIS	Wilo-Multivert MVI	Wilo-Multivert MVIL
Hydraulics					
Stainless steel in block construction	•	•	–	–	–
Stainless steel in In-line construction	–	–	•	•	•
Glandless pump	–	–	•	–	–
Self-venting during operation	–	–	–	–	–
Direction of rotation-independent mechanical seal	•	•	–	•	•
Hydraulic in 1.4301	•	–	•	1.. to 16..–6	–
Hydraulics in 1.4301 pump base in EN-GJL-250	–	•	–	16.. to 95..	•
Screw thread	•	•	–	–	–
Oval flange, round flange	–	–	•	•	•
Victaulic connections	–	–	–	•	–
Motor					
Three-phase standard motor	–	–	–	•	–
DM (three-phase motor)	•	•	•	•	•
EM (single-phase AC motor)	•	•	–	•	•
Integrated frequency converter	–	–	–	–	–
Integrated frequency converter (manual speed control in conjunction with control by external signal 0...10 V/4...20 mA M1/M3 or automatic operation p = const. M2)	–	–	–	–	–
Integrated thermal motor protection	• (only EM version)	• (only 1~230 V)	–	–	• (only 1~230 V)
Protection against low water level	–	–	–	–	–
4-pole (n = 1450 1/min)	–	–	–	optional	–
Equipment/Scope of delivery					
Oval-mating flange Rp 1 to Rp 1 1/2	–	–	•	• (only with vers. PN 16)	•
Installation and operating instructions	•	•	•	•	•
Options					
Hydraulic in 1.4404	2.. to 8..	–	–	2.. to 16..–6	–
Hydraulic in 1.4404 Pump base in 1.4408	–	–	–	16.. to 95..	–
Other mechanical seal	•	• (on request)	–	•	• (on request)
Other standard motors	–	–	–	•	–
Other seal materials	•	• (on request)	–	•	• (on request)

• = available, – = not available

High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Equipment/function

	Wilo-Economy MHIE	Wilo-Multivert MVISE	Wilo-Multivert MVIE
Hydraulics			
Stainless steel in block construction	•	–	–
Stainless steel in In-line construction	–	•	•
Glandless pump	–	•	–
Self-venting during operation	–	•	–
Direction of rotation-independent mechanical seal	•	–	•
Hydraulic in 1.4301	•	•	2.. to 16..–6
Hydraulics in 1.4301 pump base in EN-GJL-250	–	–	16.. to 52..
Screw thread	•	–	–
Oval flange	–	•	2.. to 16..–6
Round flange	–	–	16.. to 52..
Victaulic connections	–	optional	optional
Motor			
Three-phase standard motor	–	–	•
DM (three-phase motor)	•	•	•
EM (single-phase AC motor)	•	–	•
Integrated frequency converter	• (only DM vers., controllable from 26 to 65 Hz)	• (water-cooled, adapted, continuously adjustable from 20 to 50 Hz)	• (controllable from 26 to 65 Hz)
Integrated frequency converter (manual speed control in conjunction with control by external signal 0...10 V/4...20 mA M1/M3 or automatic operation p = const. M2)	• (only EM version)	–	• (only EM version)
Integrated thermal motor protection	•	•	•
Protection against low water level	•	•	•
4-pole (n = 1450 1/min)	–	–	–
Equipment/Scope of delivery			
Oval-mating flange Rp 1 to Rp 1 ½	–	• (only with vers. PN 16)	• (only with vers. PN 16)
Installation and operating instructions	•	•	•
Options			
Hydraulics in 1.4404	2.. to 8..	–	2.. to 16..–6
Hydraulics in 1.4404 pump base in 1.4408	–	–	16.. to 52..
Other mechanical seal	•	–	•
Other standard motors	–	–	EFF 1
Other seal materials	•	–	•

• = available, – = not available

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Planning guide

Resistance list for pumps of the Wilo-Multivert MVI/MVIE 2.. series to 16-6 and Wilo-Economy MHI/MHIE – series 2.. to 16..

This list makes no claim to completeness. The specifications concerning the application possibilities of various pumping materials for the conveyance of the fluids listed have been compiled to the best of our knowledge. They should however not be regarded as any more than non-binding guidelines. **No guarantee claims whatsoever are to be derived therefrom.**

It is only very rarely in everyday practice that the fluids listed here are conveyed as pure substances. Even minuscule admixtures of other substances could decisively influence or alter the chemical-aggressive behaviour of a basic substance. Incrustations, condensate formation and temperature increases also generally have disadvantageous effects. In many cases, practical experience is required before a conclusion can be reached as to whether or not the suitability of a particular material is sufficient.

Resistance list

	Vol.-% max.	Temp. °C max.	1.4301 (AISI 304)		1.4404 (AISI 316 L)	
Fluid			EPDM	Viton	EPDM	Viton
Alkaline cleaner	–	–	•	–	•	–
Alcohol, see ethanol	–	–	•	–	•	–
Aluminium sulphate	10%	25°	–	–	–	•
Ammonia water (a.hydroxide)	100%	80°	•	–	•	–
Ammonium chloride	15%	60°	–	–	•	–
Ammonium hydrogen carbonate	10%	40°	•	–	•	–
Ammonium sulphate	20%	50°	–	–	•	–
Antifrogen (CW-basis)	40%	70°	•	•	•	•
Cider	–	60°	–	–	–	–
Petrol (ex protection required)	–	25°	–	•	–	•
Benzoic acid	10%	100°	–	–	–	•
Boric acid	unsaturated solution	60°	–	–	–	•
Brandy	< 40% Alc.	60°	•	–	•	–
Butanol	–	60°	•	–	•	–
Buttermilk	–		–	–	–	–
Calcium acetate	unsaturated solution	100°	–	–	•	–
Calcium hydroxide	10%	80°	–	–	–	•
Calcium nitrate	10%	30°	•	–	•	–
Deionic (fully desalinated water)	–	50°	–	–	•	–
Iron phosphate	–	–	–	–	–	–
Iron-II-sulphate	–	–	–	–	–	–

• = resistant, – = not resistant

Caution:

When combined with water, Viton is resistant only up to a maximum temperature of 90°C

We request that the key code and/or the remarks be taken into account when using the resistance list.

In the event of questions concerning the resistances of the Wilo-Multivert MVI/MVIE Series 16../32../52.. please contact the Sales and Services office responsible for your region.

Remarks:

Furthermore, the qualities of the fluid, such as density, solidification points, viscosity, etc. and/or explosion-protection ("Ex-protection") regulations are to be taken into account additionally and separately in conjunction with this resistance list.

The application limits of the pumps in terms of pressure and temperature are to be taken into account.

High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Planning guide

Resistance list		Vol.-% max.	Temp. °C max.	1.4301 (AISI 304)		1.4404 (AISI 316 L)	
Fluid				EPDM	Viton	EPDM	Viton
Iron-III-sulphate	–	–	–	–	–	–	–
Vinegar (wine vinegar)	10%	60°	–	–	•	–	–
Acetic acid anhydride	–	25°	–	–	•	–	–
Ethanol (acethanol, alcohol) (ex protection required)	–	60°	•	–	•	–	–
Ethylene glycol/diethylene glycol	40%	70°	•	•	•	•	•
Fixing bath	–	25°	–	–	–	–	•
Fruit juice	–	60°	–	–	–	–	•
Tannic acid	unsaturated solution	boiling point	–	–	•	–	–
Glycerine	–	–	•	–	•	–	–
Glycol	–	–	–	–	–	–	–
Glycol–water	40%	70°	•	•	•	•	•
Uric acid	–	–	–	–	•	–	–
Hexane	–	40°	–	•	–	–	•
Isopropanol (ex protection required)	–	–	•	–	•	–	–
Potassium carbonate	unsaturated solution	100°	•	–	•	–	–
Potassium hydrogen carbonate	10%	60°	•	–	•	–	–
Potassium hydroxite	10%	60°	•	–	•	–	–
Potassium nitrate	–	–	–	–	–	–	–
Potassium permanganate	unsaturated solution	80°	–	–	•	–	–
Potassium sulphate	unsaturated solution	60°	–	–	•	–	–
Milk of lime (calcium hydroxide)	10%	80°	–	–	–	–	•
Kerosine (ex protection required)	–	25°	–	•	–	–	•
Copper sulphate	unsaturated solution	60°	–	–	–	–	•
Coolant	–	80°	–	•	–	–	•
Liquor	–	60°	–	–	–	–	•
Magnesium sulphate	unsaturated solution	< boiling temp.	–	–	–	–	–
Maleic acid	50%	60°	–	–	–	–	•
Methanol (ex protection required)	–	60°	•	–	•	–	–
Methylalcohol: methanol (ex protection required)	–	60°	•	–	•	–	–

• = resistant, – = not resistant

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Planning guide

Resistance list		Vol.-% max.	Temp. °C max.	1.4301 (AISI 304)		1.4404 (AISI 316 L)	
Fluid				EPDM	Viton	EPDM	Viton
Lactic acid	unsaturated solution		25°	–	–	–	•
Miscella	–		60°	–	•	–	•
Sodium carbonate	10%		60°	•	–	•	–
Sodium hydroxide	25%		20°	•	–	•	–
Sodium hydroxide	10%		80°	•	–	•	–
Sodium nitrate	unsaturated solution		80°	•	–	•	–
Sodium phosphate	5%		110°	•	–	•	–
Sodium sulphate	–		–	–	–	–	–
Caustic lye of soda, sodium hydroxide solution							
Fruit pulp (containing SO ₂)	–		boiling temp.	–	–	–	•
Oils:							
– Diesel oil (light, extra light) (ex protection required)	–		80°	–	•	–	•
– Petroleum	–		80°	–	•	–	•
– Peanut oil	–		–	–	•	–	•
– Heating oil (light) (ex protection required)	–		–	–	•	–	•
– Heating oil (ex protection required)	–		120°	–	•	–	•
– Hydraulic oil	–		–	–	•	–	•
– Linseed oil	–		60°	–	•	–	•
– Linseed oil + 3% H ₂ S0 ₄	–		60°	–	–	–	•
– Maize oil	–		100°	–	•	–	•
– Mineral oil	–		80°	–	•	–	•
– Rapeseed oil	–		100°	–	•	–	•
– Castor oil	–		100°	–	•	–	•
– Lubricating oil	–		–	–	•	–	•
– Cutting oil	–		–	–	•	–	•
– Silicone oil	–		100°	–	•	–	•
– Soya oil	–		100°	–	•	–	•
– Edible oil	–		100°	–	•	–	•
– Oil of turpentine	–		60°	–	•	–	•
– Turbine oil (no SDF oils)	–		100°	–	•	–	•
Oil-water-mixture	10%		250°	–	•	–	•
Oxalic acid	–		–	–	–	–	–

• = resistant, – = not resistant

High-Pressure Multistage Centrifugal Pumps



Single-head pumps

Planning guide

Resistance list		Vol.-% max.	Temp. °C max.	1.4301 (AISI 304)		1.4404 (AISI 316 L)	
Fluid				EPDM	Viton	EPDM	Viton
Paraffin(s)	–	–	–	•	–	–	•
Petroleum (ex protection required)	–	–	–	•	–	–	•
Phosphoric acid	10%	85°	–	–	–	–	•
Polyglycols	–	90°	–	•	–	–	•
Polyethylene glycols	40%	70°	•	•	•	•	•
2-Propane		60°	•	–	•	–	–
Pulp, see fruit pulp							
Salicylic acid	unsaturated solution	25°	–	–	•	–	–
Aqua ammonia (ammonium hydroxide)	100%	80°	•	–	–	•	–
Sulphuric acid	5%	25°	–	–	–	–	•
Sulphuric acid	2.50%	60°	–	–	–	–	•
Sulphurous acid (saturated)	–	20°	–	–	–	–	•
Safety coolant (e.g. freon, frigen [difluorodichloromethane] and others, anhydrous)	–	–	–	–	–	–	–
Trisodium phosphate	10%	boiling temp.	•	–	•	–	–
Toluene	–	–	–	–	–	–	–
Wash liquid alk. (bottle washing)	10%	80°	•	–	•	–	–
Wash liquid alk. (metal degreasing)	10%	80°	–	•	–	–	•
Water with the following chemical properties: pH < 6.5; chloride < 150 mg/l pH > 6.5; chloride < 300 mg/l							
– Swimming-pool water (no brine)	–	35°	•	–	•	–	–
– Deionised (demineralised) water	–	50°	–	–	•	–	–
– Distilled water	–	50°	–	–	•	–	–
– Decarbonised water	–	–	–	–	•	–	–
– Softened water	–	–	–	–	•	–	–
– Firefighting water	–	–	•	–	•	–	–
– Heating water	–	–	•	–	•	–	–
– Boiler water (dH < 11.5)	–	–	•	–	•	–	–
– Boiler feed water, completely demineralised	–	–	–	–	•	–	–
– Condensate (pH < 4.5)	–	–	–	–	•	–	–
– Tap water	–	–	•	–	•	–	–
– Pure water	–	–	•	–	•	–	–
– Ultrahigh-purity water (electronics, etc.)	–	–	–	–	•	–	–

• = resistant, – = not resistant

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Planning guide

Resistance list		Vol.-% max.	Temp. °C max.	1.4301 (AISI 304)		1.4404 (AISI 316 L)	
Fluid				EPDM	Viton	EPDM	Viton
- For feed water, see Boiler water and Boiler feed water							
- Rinse water	-	-	•	-	•	-	
- For semi-desalinated water, see Decarbonised water							
- For fully desalinated water, see Deionised (demineralised) water							
- For soft water: see Decarbonised water							
Other waters:							
- Boiler feed water, semi-desalinated	-	-	•	-	•	-	
- Cooling water	-	-	•	-	•	-	
- Untreated water/raw water (suspended solids < 10 ppm)	-	-	•	-	•	-	
- Potable water	-	-	•	-	•	-	
Wine (white, red)	-	-	-	-	•	-	
Wine acid	unsaturated solution	60°	-	-	-	-	•
Citric acid			25°	-	-	•	-
Sugar juice (-solution) susp. s < 20 ppm	-	-	-	-	•	-	

• = resistant, - = not resistant

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Single-head pumps



High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Version overview Wilo-Economy MHI

Wilo-Economy MHI
2/4/8/16

Material

Pump base EN-GJL-250 with cataphoresis coating hydraulics in 1.4301/1.4404 (AISI 304/316L)	–
Parts that come into contact with the fluid in 1.4301 (AISI 304)	•
Parts that come into contact with the fluid in 1.4404 (AISI 316L)	• (only vers. 2../4../8..)

Seal versions

EPDM	•
Viton	•

Hydraulic connection

Screw thread	•
Oval flange	–
Round flange	–
Victaulic quick coupling	–

Motor versions

Individual motors	optional
1~230 V, 50 Hz	• (up to $P_2 = 1.5 \text{ kW}$)
3~230 V, 50 Hz	–
3~400 V, 50 Hz	• (to $P_2 = 4 \text{ kW}$ for 230/400 V; starting with $P_2 = 5.5 \text{ kW}$ only 400 V Δ)
3~500 V, 50 Hz	–
1~110 V, 60 Hz	–
1~220 V, 60 Hz	–
3~380 V, 60 Hz	optional
3~400 V, 60 Hz	optional
3~440 V, 60 Hz	optional
3~460 V, 60 Hz	–
3~480 V, 60 Hz	–
3~380 V to 440 V and 50 Hz to 60 Hz	–
IP 54	•
IP 55	–
Ex-protected motors	–
Motors with PTC thermistors	–
Motors with UL certificates	–
Motors with CSA certificates	–
Thermal motor protection	• (with 1~ motors)

• = standard version, – = not on hand and/or not obtainable

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Version overview Wilo-Economy MHI

Wilo-Economy MHI
2/4/8/16

Motor versions (continued)

RPM-regulated by means of external frequency converter (FU) •

Integrated frequency converter –

Paintwork

Custom paintwork optional

Mechanical seals

Tungsten carbide/carbon •

Tungsten carbide/tungsten carbide optional

SiC/SiC optional

Potable water authorisations

KTW •

WRAS •

• = standard version, – = not on hand and/or not obtainable

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Technical data Wilo-Economy MHI

	Wilo-Economy MHI...			
	2..	4..	8..	16..
Approved fluids				
Potable water, heating water, process water	•	•	•	•
Condensate	•	•	•	•
Water-glycol mixture (up to 40% vol. share of glycol/performance check required starting with 10% vol. share of glycol)	•	•	•	•
Other low-viscosity fluids (without abrasive or long-fibre constituents, insofar as they do not attack the materials used)	•	•	•	•
Performance (with 50 Hz operation)				
Maximum flow volume [m ³ /h]	5	8	12	25
Maximum delivery head [m]	70	70	60	47
Fluid temperature [°C]	-15 to +110	-15 to +110	-15 to +110	-15 to +110
Ambient temperature [°C]	40	40	40	40
Operating pressure [bar]	10	10	10	10
Intake pressure [bar]	6	6	6	6
Rated motor speed [1/min]	2950	2950	2950	2950
Motor				
Mains connection 1~ [V/Hz] (permitted voltage tolerance ± 10%)	230/50 or 220/60			
Mains connection 3~ [V/Hz] (permitted voltage tolerance ± 10%)	230/50 Δ or 220/60 Δ 400/50 Y or 380/60 Y			
Insulation class	F	F	F	F
Radio interference level	EN 61800-3	EN 61800-3	EN 61800-3	EN 61800-3
Protection class	IP 54	IP 54	IP 54	IP 54
Connections				
Nominal width pipe connections [Rp]	1	1	1 1/4	1 1/2
Flange connections in PN16/PN25 [DN]	–	–	–	–
Victrallic connections	–	–	–	–
Materials				
Impellers	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404
Stage chambers	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404
Pump housing	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404
Shaft	1.4404	1.4404	1.4404	1.4404

• = available, – = not available

Note on intake pressure:

Maximum intake pressure is calculated by subtracting the maximum delivery head of the pump when Q = 0 from the maximum operating pressure of the system.

Note concerning materials:

1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Technical data Wilo-Economy MHI

	Wilo-Economy MHI...			
	2..	4..	8..	16..
Materials (continued)				
Seal	EPDM (EP 851)/Viton	EPDM (EP 851)/Viton	EPDM (EP 851)/Viton	EPDM (EP 851)/Viton
Housing cover	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404
Housing, lower part	-	-	-	-
Mechanical seal	B-carbon/tungsten carbide			
Pressure shell	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404
Bearing	tungsten carbide	tungsten carbide	tungsten carbide	tungsten carbide
Pump base	aluminium	aluminium	aluminium	aluminium
Pump base (in contact with the flow medium)	-	-	-	-

• = available, - = not available

Note on intake pressure:

Maximum intake pressure is calculated by subtracting the maximum delivery head of the pump when Q = 0 from the maximum operating pressure of the system.

Note concerning materials:

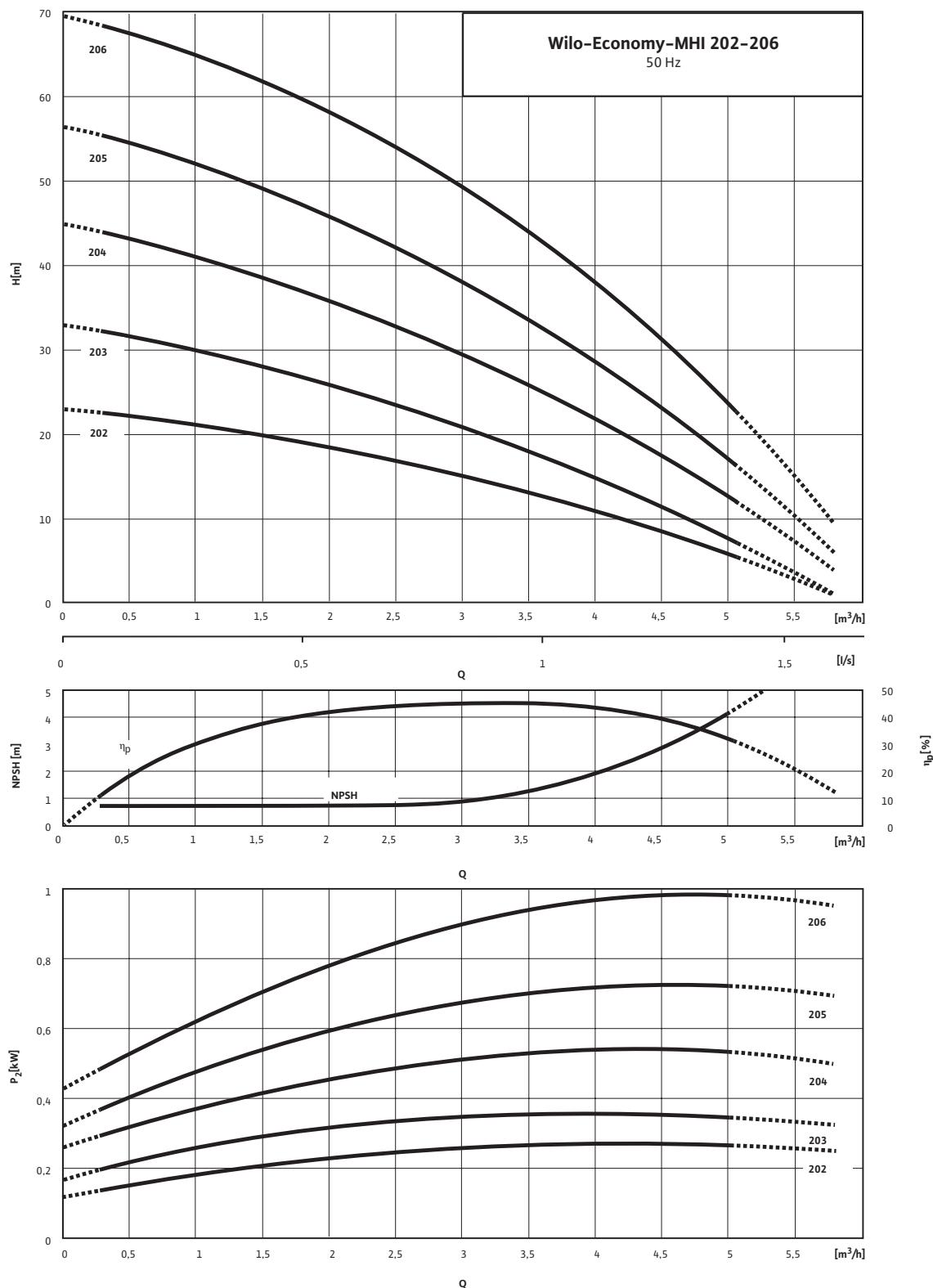
1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Economy MHI

Wilo-Economy MHI 202 to MHI 206



Pump curves in accordance with ISO 9906, class 2

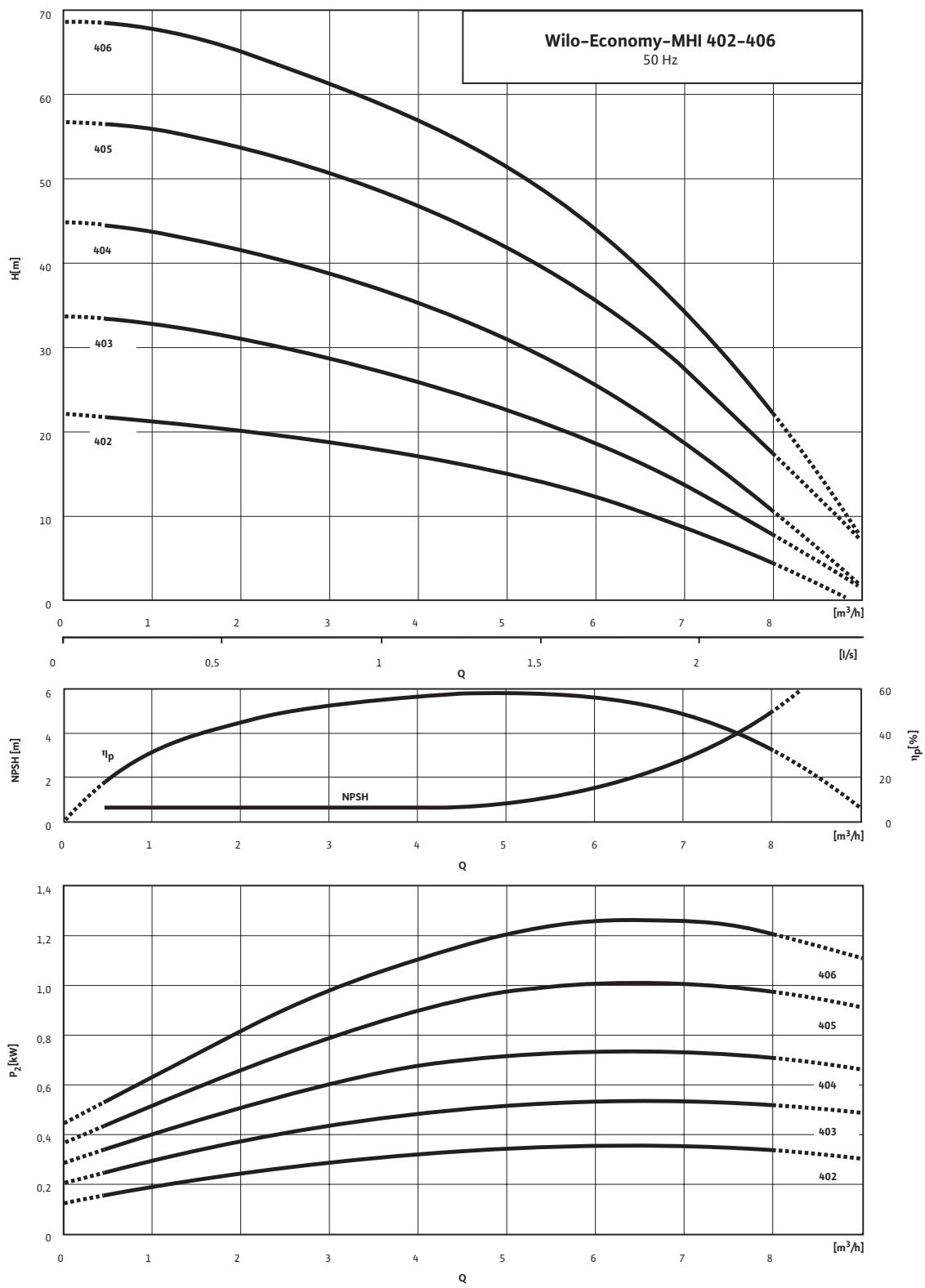
High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Pump curves Wilo-Economy MHI

Wilo-Economy MHI 402 to MHI 406



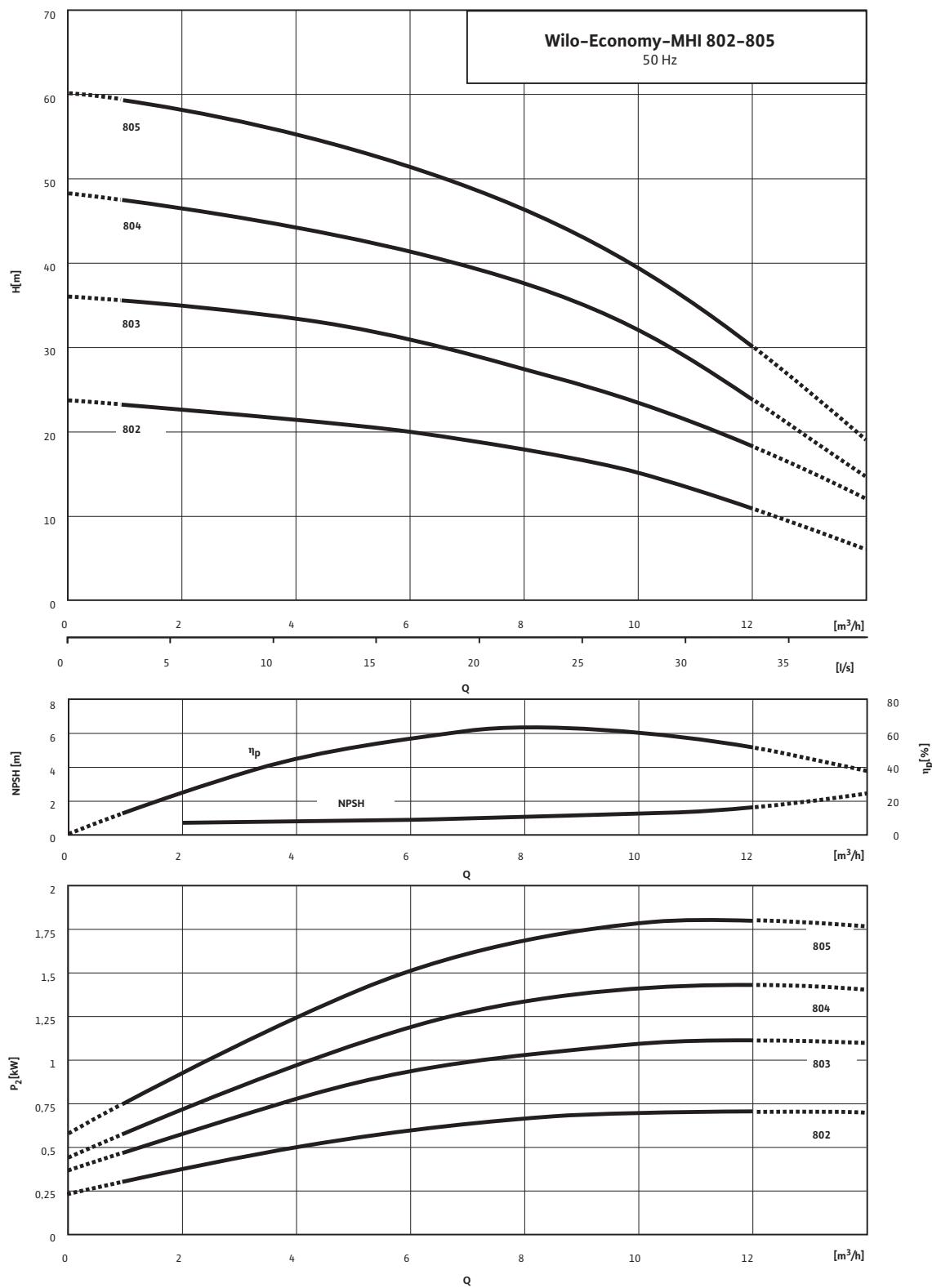
Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Economy MHI

Wilo-Economy MHI 802 to MHI 805



Pump curves in accordance with ISO 9906, class 2

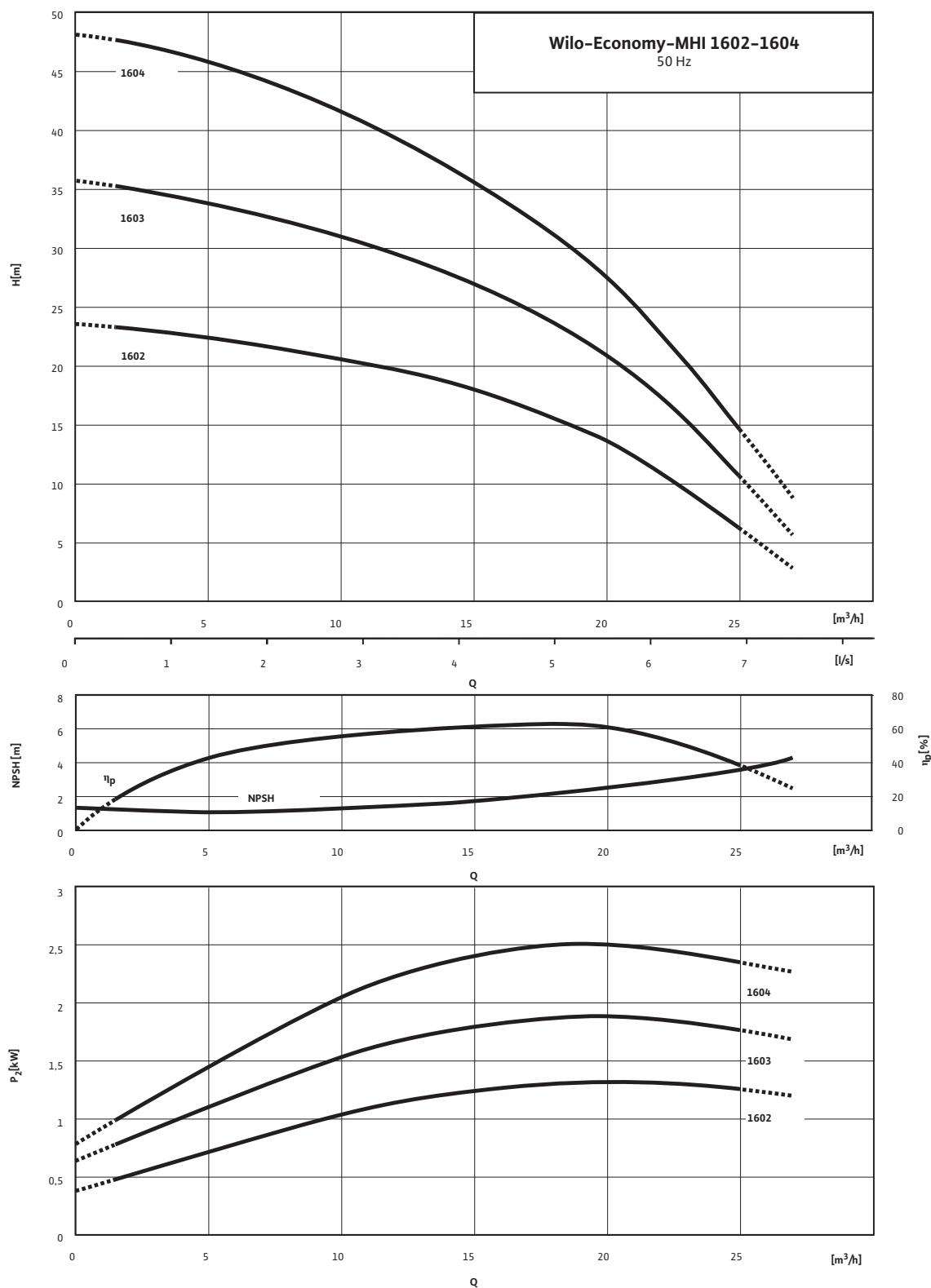
High-Pressure Multistage Centrifugal Pumps



Single-head pumps

Pump curves Wilo-Economy MHI

Wilo-Economy MHI 1602 to MHI 1604



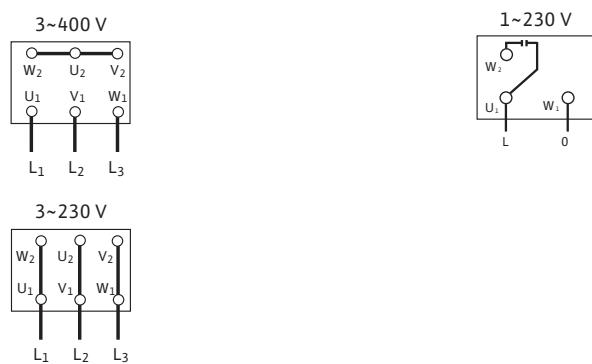
Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Terminal diagram, motor data Wilo-Economy MHI

Terminal diagram



Motor data

Wilo-Economy...	Nominal power P_2 [kW]	Nominal current I_N		
		1~230 V	3~230 V	3~400 V
		[A]	[A]	[A]
MHI 202	0.55	4.0	3.0	1.7
MHI 203	0.55	4.0	3.0	1.7
MHI 204	0.55	4.0	3.0	1.7
MHI 205	0.75	5.1	3.6	2.1
MHI 206	1.1	7.2	5.3	3.1
MHI 402	0.55	4.0	3.0	1.7
MHI 403	0.55	4.0	3.0	1.7
MHI 404	0.75	5.1	3.6	2.1
MHI 405	1.1	7.2	5.3	3.1
MHI 406	1.5	9.2	6.6	3.8
MHI 802	0.75	5.1	3.4	2.0
MHI 803	1.1	6.8	4.9	2.8
MHI 804	1.5	9.8	6.1	3.5
MHI 805	1.85	—	8.55	4.95
MHI 1602	1.5	—	6.6	3.8
MHI 1603	1.85	—	8.55	4.95
MHI 1604	2.5	—	10.1	5.85

High-Pressure Multistage Centrifugal Pumps

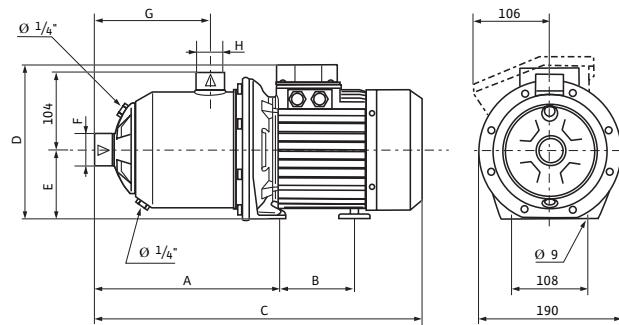
WILO

Single-head pumps

Dimensions, weights Wilo-Economy MHI

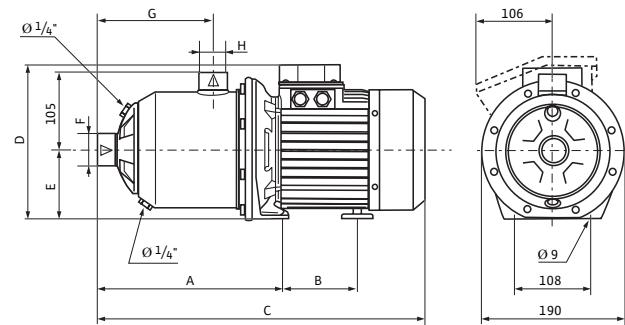
Dimension drawings

Economy MHI 202 to MHI 805



Terminal box AC version (illustrated in dashed lines)

Economy MHI 1602 to MHI 1604



Terminal box AC version (illustrated in dashed lines)

Single-head pumps

Dimensions, weights

Wilo-Economy...	Dimensions										Weight			
	A		B		C		D		E		F	G	Hs	
	1~ 230 V	3~ 400 V	[mm]	[mm]	[kg]									
MHI 202	205	95	95	375	375	216	192	90	90	Rp 1	110	Rp 1	9.8	8.9
MHI 203	205	95	95	375	375	216	192	90	90	Rp 1	110	Rp 1	9.8	8.9
MHI 204	253	95	95	423	423	216	192	90	90	Rp 1	158	Rp 1	10.6	9.7
MHI 205	253	95	95	423	423	216	192	90	90	Rp 1	158	Rp 1	12.2	11.3
MHI 206	277	103.5	95	472	447	224	192	90	90	Rp 1	182	Rp 1	15.7	12.9
MHI 402	205	95	95	375	375	216	192	90	90	Rp $1\frac{1}{4}$	110	Rp 1	9.8	8.9
MHI 403	205	95	95	375	375	216	192	90	90	Rp $1\frac{1}{4}$	110	Rp 1	9.8	8.9
MHI 404	253	95	95	423	423	216	192	90	90	Rp $1\frac{1}{4}$	158	Rp 1	12.2	11.3
MHI 405	253	103.5	95	448	423	224	192	90	90	Rp $1\frac{1}{4}$	158	Rp 1	15.2	12.9
MHI 406	277	103.5	103.5	472	472	224	206	100	90	Rp $1\frac{1}{4}$	182	Rp 1	16.7	15.2
MHI 802	217	95	95	387	387	216	192	90	90	Rp $1\frac{1}{2}$	122	Rp $1\frac{1}{4}$	11.5	10.6
MHI 803	217	104	95	412	387	224	192	90	90	Rp $1\frac{1}{2}$	122	Rp $1\frac{1}{4}$	14.5	12.2
MHI 804	277	104	104	472	472	224	206	90	90	Rp $1\frac{1}{2}$	182	Rp $1\frac{1}{4}$	16	15.8
MHI 805	277	—	104	—	472	—	206	—	90	Rp $1\frac{1}{2}$	182	Rp $1\frac{1}{4}$	—	17
MHI 1602	237	—	103.5	—	432	—	206	—	90	Rp 2	138	Rp $1\frac{1}{2}$	—	15.5
MHI 1603	23	—	103.5	—	432	—	206	—	90	Rp 2	138	Rp $1\frac{1}{2}$	—	17.7
MHI 1604	282	—	136.5	—	515	—	221	—	100	Rp 2	183	Rp $1\frac{1}{2}$	—	21.1

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Version overview Wilo-Economy MHIL

Wilo-Economy MHIL
1/3/5/9

Material

Pump base EN-GJL-250 with cataphoresis coating hydraulics in 1.4301/1.4404 (AISI 304/316L)	•
Parts that come into contact with the fluid in 1.4301 (AISI 304)	—
Parts that come into contact with the fluid in 1.4404 (AISI 316L)	—

Seal versions

EPDM	•
Viton	•

Hydraulic connection

Screw thread	•
Oval flange	—
Round flange	—
Victaulic quick coupling	—

Motor versions

Individual motors	—
1~230 V, 50 Hz	(up to $P_2 = 1.5 \text{ kW}$)
3~230 V, 50 Hz	—
3~400 V, 50 Hz	•
3~500 V, 50 Hz	—
1~110 V, 60 Hz	—
1~220 V, 60 Hz	optional
3~380 V, 60 Hz	optional
3~400 V, 60 Hz	—
3~440 V, 60 Hz	—
3~460 V, 60 Hz	—
3~480 V, 60 Hz	—
3~380 V to 440 V and 50 Hz to 60 Hz	—
IP 54	•
IP 55	—
Ex-protected motors	—
Motors with PTC thermistors	—
Motors with UL certificates	—
Motors with CSA certificates	—
Thermal motor protection	• (only 1~230 V)
RPM-regulated by means of external frequency converter (FU)	—

• = available, — = not available

High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Version overview Wilo-Economy MHIL

	Wilo-Economy MHIL 1/3/5/9
Integrated frequency converter	–
Paintwork	
Custom paintwork	optional
Mechanical seals	
Tungsten carbide/carbon	optional
SiC/carbon	•
Tungsten carbide/tungsten carbide	optional
SiC/SiC	optional
Potable water authorisations	
KTW	•
WRAS	•

• = available, – = not available

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Technical data Wilo-Economy MHIL

	Wilo-Economy MHIL...			
	1..	3..	5..	9..
Approved fluids				
Potable water, heating water, process water	•	•	•	•
Condensate	-	-	-	-
Water-glycol mixture (up to 40% vol. share of glycol/performance check required starting with 10% vol. share of glycol)	•	•	•	•
Other low-viscosity fluids (without abrasive or long-fibre constituents, insofar as they do not attack the materials used)	•	•	•	•
Performance (with 50 Hz operation)				
Maximum flow volume [m³/h]	3	5	8	13
Maximum delivery head [m]	64	66	68	58
Fluid temperature [°C]	-15 to +90	-15 to +90	-15 to +90	-15 to +90
Ambient temperature [°C]	40	40	40	40
Operating pressure [bar]	10	10	10	10
Intake pressure [bar]	6	6	6	6
Rated motor speed [1/min]	2900	2900	2900	2900
Motor				
Mains connection 1~ [V/Hz] (permitted voltage tolerance $\pm 10\%$)	230/50 or 220/60			
Mains connection 3~ [V/Hz] (permitted voltage tolerance $\pm 10\%$)	230/50 Δ or 220/60 Δ 400/50 Y or 380/60 Y			
Insulation class	F	F	F	F
Radio interference level	-	-	-	-
Protection class	IP 54	IP 54	IP 54	IP 54
Connections				
Nominal width pipe connections on pressure side [Rp]	1	1	1	1½
Nominal width pipe connections on suction side [Rp]	1	1	1½	1½
Flange connections in PN16/PN25 [DN]	-	-	-	-
Victaulic connections	-	-	-	-
Materials				
Impellers	1.4301	1.4301	1.4301	1.4301
Stage chambers	1.4301	1.4301	1.4301	1.4301
Pump housing	EN-GJL-250 (KTL-coated)			
Shaft	1.4028	1.4028	1.4028	1.4028
Seal	EPDM	EPDM	EPDM	EPDM

• = available, - = not available

Note on intake pressure:

Max. intake pressure is calculated by subtracting the max. delivery head of the pump when $Q = 0$ from the max. operating pressure of the system.

Note concerning materials:

1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

High-Pressure Multistage Centrifugal Pumps



Single-head pumps

Technical data Wilo-Economy MHIL...

	Wilo-Economy MHIL...			
	1..	3..	5..	9..
Materials (continued)				
Housing cover		EN-GJL-250 (KTL-coated)		
Housing, lower part		EN-GJL-250 (KTL-coated)		
Mechanical seal	SiC/carbon	SiC/carbon	SiC/carbon	SiC/carbon
Pressure shell	-	-	-	-
Bearing	tungsten carbide	tungsten carbide	tungsten carbide	tungsten carbide
Pump base		EN-GJL-250 (KTL-coated)		
Pump base (in contact with the flow medium)	-	-	-	-

• = available, - = not available

Note on intake pressure:

Max. intake pressure is calculated by subtracting the max. delivery head of the pump when Q = 0 from the max. operating pressure of the system.

Note concerning materials:

1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

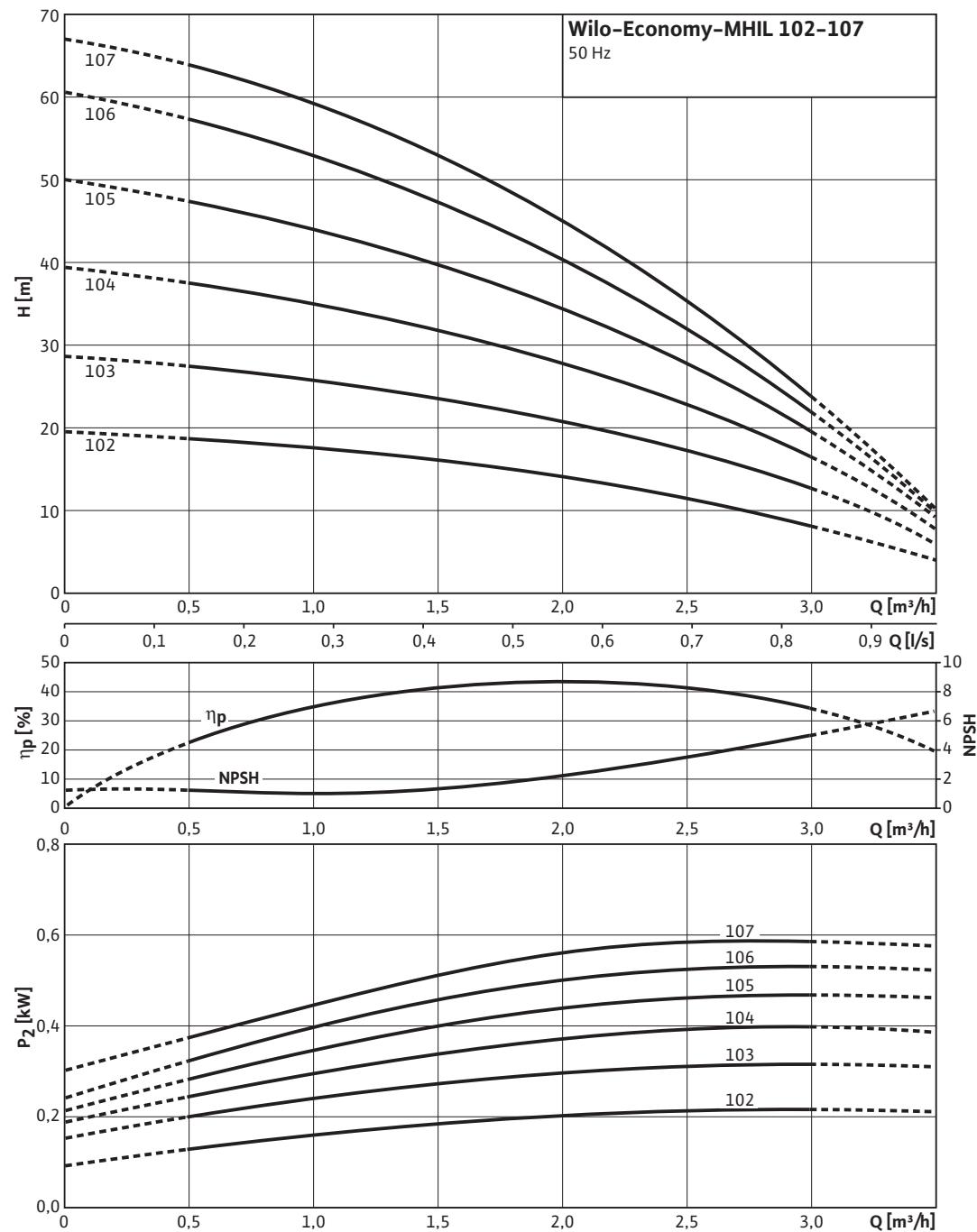
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Economy MHIL

Wilo-Economy MHIL 102 to MHIL 107

2-pole/50 Hz



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

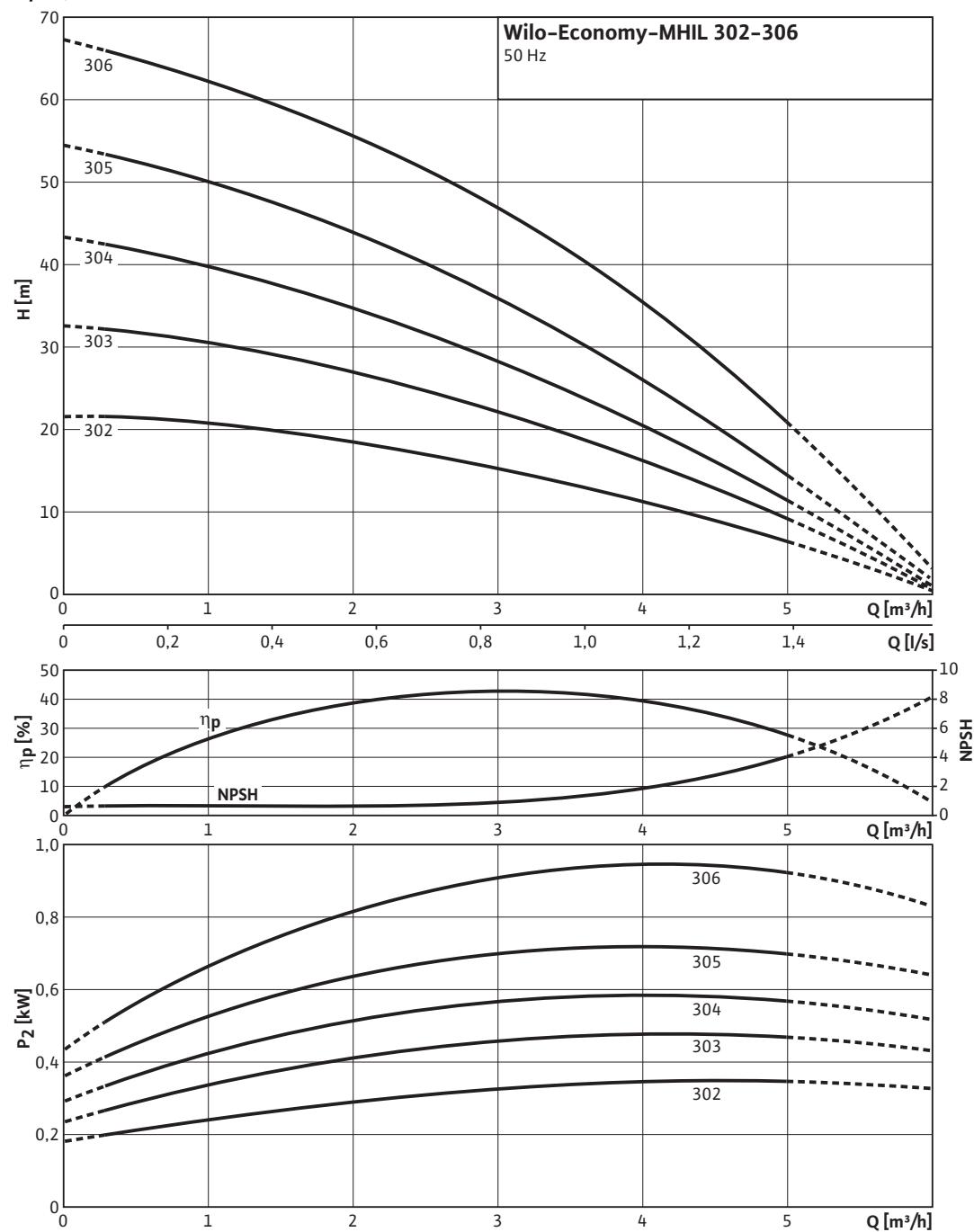
WILO

Single-head pumps

Pump curves Wilo-Economy MHIL

Wilo-Economy MHIL 302 to MHIL 306

2-pole/50 Hz



Pump curves in accordance with ISO 9906, class 2

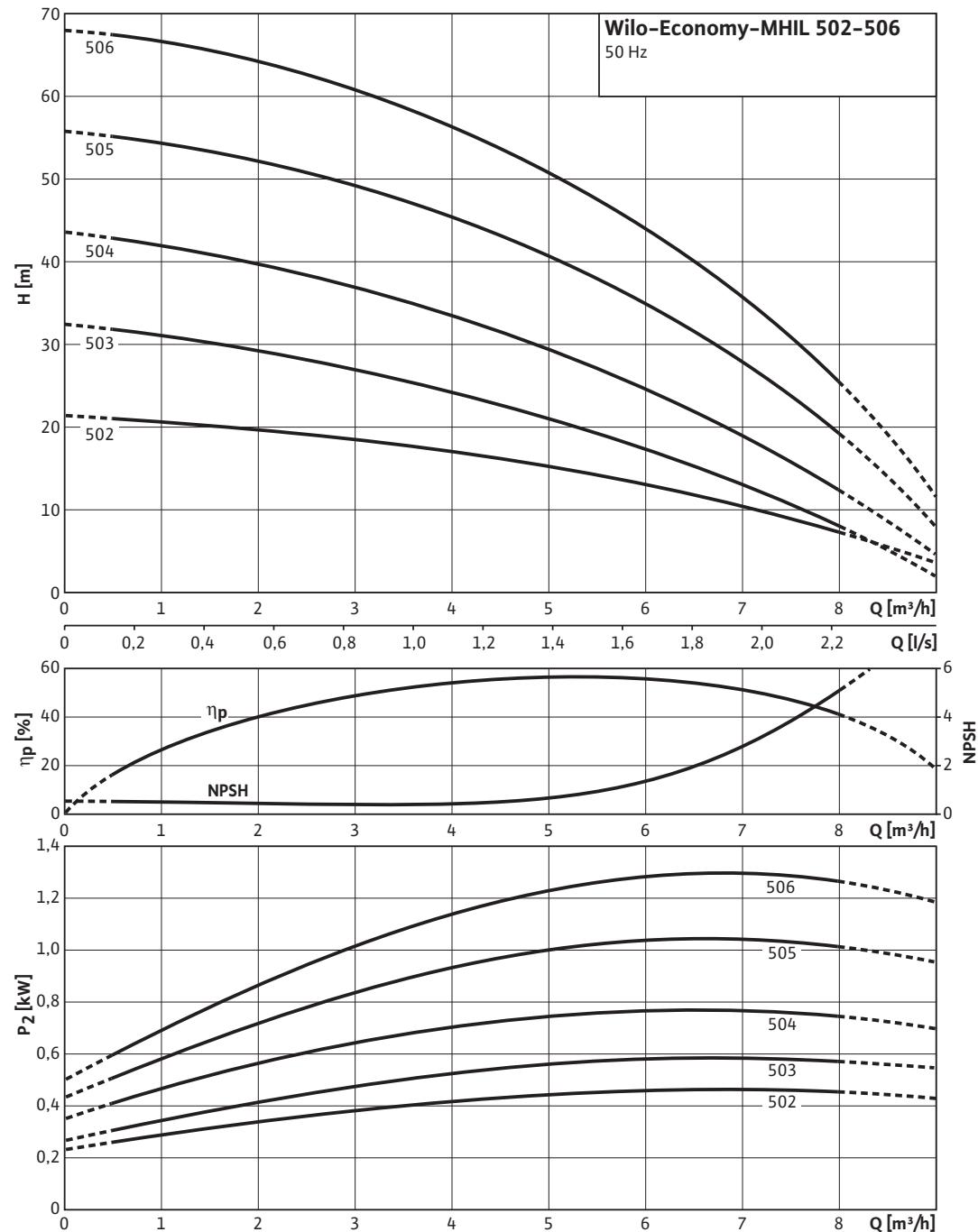
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Economy MHIL

Wilo-Economy MHIL 502 to MHIL 506

2-pole/50 Hz



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

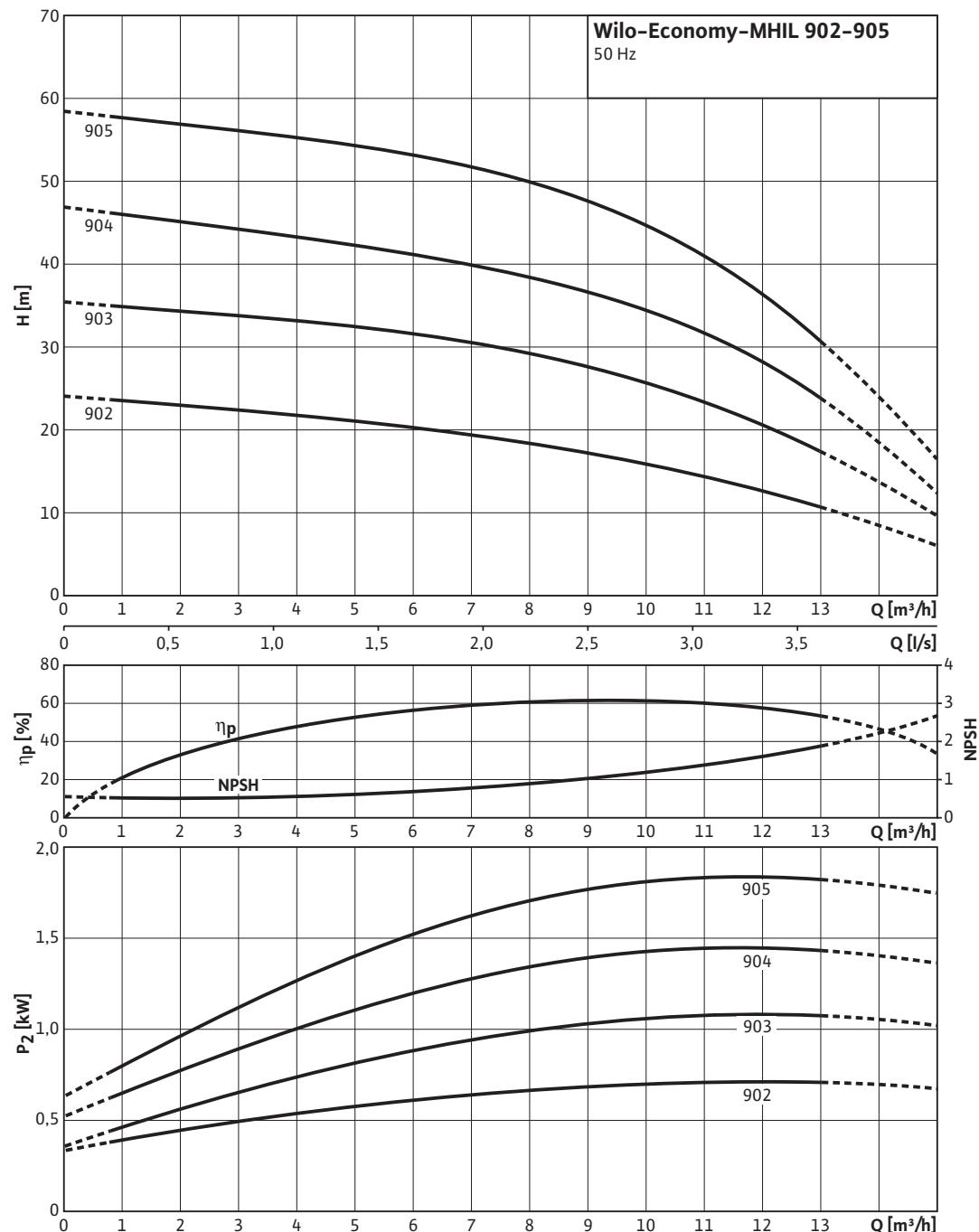
WILO

Single-head pumps

Pump curves Wilo-Economy MHIL

Wilo-Economy MHIL 902 to MHIL 905

2-pole/50 Hz



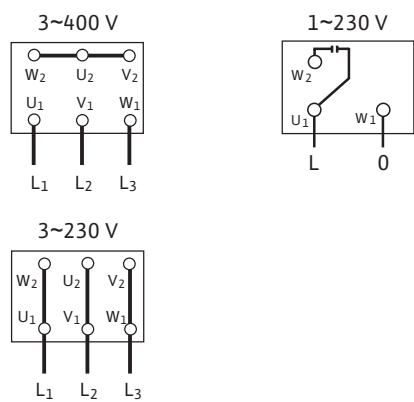
Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Terminal diagram, motor data Wilo-Economy MHIL

Terminal diagram



Motor data				
Wilo-Economy...	Nominal power P_2 [kW]	Nominal current I_N		
		1~230 V, 50 Hz [A]	3~230 V, 50 Hz [A]	3~400 V, 50 Hz [A]
MHIL 102	0.55	4.0	3.0	1.7
MHIL 103	0.55	4.0	3.0	1.7
MHIL 104	0.55	4.0	3.0	1.7
MHIL 105	0.55	4.0	3.0	1.7
MHIL 106	0.55	4.0	3.0	1.7
MHIL 107	0.55	4.0	3.0	1.7
MHIL 302	0.55	4.0	3.0	1.7
MHIL 303	0.55	4.0	3.0	1.7
MHIL 304	0.55	4.0	3.0	1.7
MHIL 305	0.75	5.1	3.6	2.1
MHIL 306	1.10	7.2	5.3	3.1
MHIL 502	0.55	4.0	3.0	1.7
MHIL 503	0.55	4.0	3.0	1.7
MHIL 504	0.75	5.1	3.6	2.1
MHIL 505	1.10	7.2	5.3	3.1
MHIL 506	1.50	9.1	6.6	3.8
MHIL 902	0.75	5.1	3.6	2.1
MHIL 903	1.10	7.2	5.3	3.1
MHIL 904	1.50	9.1	6.6	3.8
MHIL 905	1.85	—	8.55	4.95

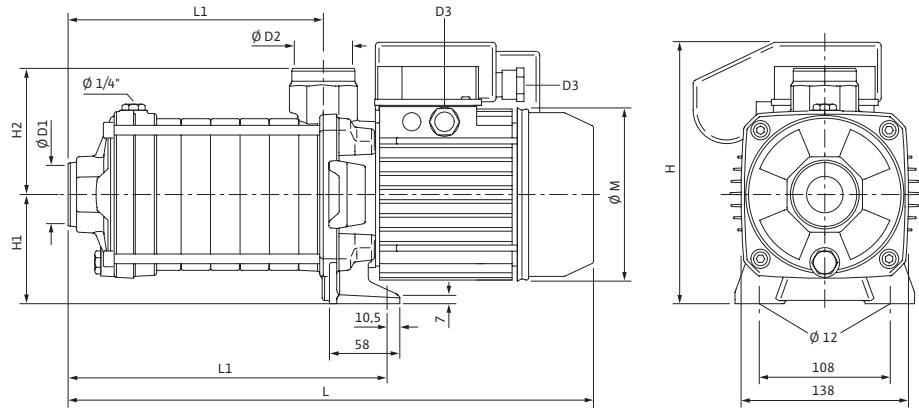
High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Dimensions, weights Wilo-Economy MHIL

Dimension drawing



Single-head pumps

Dimensions, weights

Wilo-Economy...	Ø D1	Ø D2	D3		H		H1	H2	L		L1	L2	Ø M		Weight	
			1~ 230V	3~ 400V	1~ 230V	3~ 400V			1~ 230V	3~ 400V			1~ 230V	3~ 400V	1~ 230V	3~ 400V
			[mm]										[kg]			
MHIL 102	Rp 1	Rp 1	11	11	190	190	90	104	321.2	321.2	156.2	102.7	126	126	10.6	10.6
MHIL 103	Rp 1	Rp 1	11	11	190	190	90	104	341.4	341.4	176.4	122.9	126	126	11.2	11.2
MHIL 104	Rp 1	Rp 1	11	11	190	190	90	104	361.6	361.6	196.6	143.1	126	126	11.8	11.8
MHIL 105	Rp 1	Rp 1	11	11	190	190	90	104	381.5	381.5	216.8	163.3	126	126	12.4	12.4
MHIL 106	Rp 1	Rp 1	11	11	190	190	90	104	402	402	237	183.5	126	126	13	13
MHIL 107	Rp 1	Rp 1	11	11	190	190	90	104	422.2	422.2	257.2	203.7	126	126	13.6	13.6
MHIL 302	Rp 1	Rp 1	11	11	410	410	90	104	332.2	332.2	167.2	113.7	126	126	10.8	10.8
MHIL 303	Rp 1	Rp 1	11	11	410	410	90	104	356.4	356.4	191.4	137.9	126	126	11.5	11.5
MHIL 304	Rp 1	Rp 1	11	11	441	441	90	104	380.6	380.6	215.6	162.1	126	126	12.5	12.5
MHIL 305	Rp 1	Rp 1	11	11	465	465	90	104	409	409	239.8	186.3	145	145	17.8	17.8
MHIL 306	Rp 1	Rp 1	13.5	11	496	489	90	104	458	433.2	264	210.5	162	145	17.6	18.8
MHIL 502	Rp 1½	Rp 1	11	11	190	190	90	104	332.2	332.2	167.2	113.7	126	126	10.9	10.9
MHIL 503	Rp 1½	Rp 1	11	11	190	190	90	104	356.4	356.4	191.4	137.9	126	126	11.6	11.6
MHIL 504	Rp 1½	Rp 1	13.5	11	216	192	90	104	393.8	393.8	215.6	162.1	145	145	17.1	17.1
MHIL 505	Rp 1½	Rp 1	13.5	11	224	192	90	104	433.8	409	239.8	186.3	162	145	16.7	17.9
MHIL 506	Rp 1½	Rp 1	13.5	13.5	206	224	90	104	458	458	264	210.5	162	162	17.7	17.7
MHIL 902	Rp 1½	Rp 1¼	13.5	11	216	192	90	104	342.4	342.4	173.2	119.7	145	145	15.5	15.5
MHIL 903	Rp 1½	Rp 1¼	13.5	11	224	192	90	104	397.4	397.4	203.4	149.9	162	145	14.6	16.6
MHIL 904	Rp 1½	Rp 1¼	13.5	13.5	224	206	90	104	428.6	428.6	233.6	180.1	162	162	16.7	16.7
MHIL 905	Rp 1½	Rp 1¼	13.5	13.5	—	206	90	104	—	458.8	263.8	210.3	—	162	—	17.5

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Version overview Wilo-Multivert MVIS

	Wilo-Multivert MVIS
Material	
Pump base EN-GJL-250 with cataphoresis coating hydraulics in 1.4301/1.4404 (AISI 304/316L)	•
Parts that come into contact with the fluid in 1.4301 (AISI 304)	•
Parts that come into contact with the fluid in 1.4404 (AISI 316L)	—
Seal versions	
EPDM	•
Viton	•
Hydraulic connection	
Screw thread	—
Oval flange	•
Round flange	—
Victaulic quick coupling	•
Motor versions	
Individual motors	—
1~230 V, 50 Hz	—
3~230 V, 50 Hz	•
3~400 V, 50 Hz	•
3~500 V, 50 Hz	—
1~110 V, 60 Hz	—
1~220 V, 60 Hz	—
3~380 V, 60 Hz	—
3~400 V, 60 Hz	—
3~440 V, 60 Hz	—
3~460 V, 60 Hz	—
3~480 V, 60 Hz	—
3~380 V to 440 V and 50 Hz to 60 Hz	—
IP 44	•
IP 54	—
IP 55	—
Ex-protected motors	—
Motors with PTC thermistors	—
Motors with UL certificates	optional
Motors with CSA certificates	optional
Thermal motor protection	—
RPM-regulated by means of external frequency converter (FU)	•
Integrated frequency converter	—

• = standard version, — = not on hand and/or not obtainable

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Version overview Wilo-Multivert MVIS

Wilo-Multivert MVIS	
Paintwork	
Custom paintwork	optional
Potable water authorisations	
KTW	•
WRAS	•

• = standard version, – = not on hand and/or not obtainable

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Technical data Wilo-Multivert MVIS

	Wilo-Multivert MVIS...		
	2..	4..	8..
Approved fluids			
Potable water, heating water, process water	•	•	•
Condensate	–	–	–
Water-glycol mixture (up to 40% vol. share of glycol/performance check required starting with 10% vol. share of glycol)	•	•	•
Other low-viscosity fluids (without abrasive or long-fibre constituents, insofar as they do not attack the materials used)	•	•	•
Performance (with 50 Hz operation)			
Maximum flow volume [m ³ /h]	4.5	8	14
Maximum delivery head [m]	114	108	70
Fluid temperature [°C]	-10 to +50	-10 to +50	-10 to +50
Ambient temperature [°C]	40	40	40
Operating pressure [bar]	16	16	16
Intake pressure [bar]	6	6	6
Rated motor speed [1/min]	2800	2800	2800
Motor			
Mains connection 1~ [V/Hz] (permitted voltage tolerance ± 10%)	–/–		
Mains connection 3~ [V/Hz] (permitted voltage tolerance ± 10%)	230/50 Δ 400/50 Y	230/50 Δ 400/50 Y	230/50 Δ 400/50 Y
Insulation class	F	F	F
Radio interference level	N	N	N
Protection class	IP 44	IP 44	IP 44
Connections			
Nominal width pipe connections [Rp]	1	1 1/4	1 1/2
Flange connections in PN16/PN25 [DN]	–	–	–
Victrallic connections	–	–	–
Materials			
Impellers	1.4301	1.4301	1.4301
Stage chambers	1.4301	1.4301	1.4301
Pump housing	1.4301	1.4301	1.4301
Shaft	1.4122	1.4122	1.4122

• = available, – = not available

Note on intake pressure:

Maximum intake pressure is calculated by subtracting the maximum delivery head of the pump when Q = 0 from the maximum operating pressure of the system.

Note concerning materials:

1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Technical data Wilo-Multivert MVIS

	Wilo-Multivert MVIS...		
	2..	4..	8..
Materials (continued)			
Seal	EPDM (EP 851)	EPDM (EP 851)	EPDM (EP 851)
Housing cover	-	-	-
Housing, lower part	1.4301	1.4301	1.4301
Mechanical seal	-	-	-
Pressure shell	1.4301	1.4301	1.4301
Bearing	carbon, synthetic resin-impregnated	carbon, synthetic resin-impregnated	carbon, synthetic resin-impregnated
Pump base	EN-GJL-250	EN-GJL-250	EN-GJL-250
Pump base (in contact with the flow medium)	-	-	-

* = available, - = not available

Note on intake pressure:

Maximum intake pressure is calculated by subtracting the maximum delivery head of the pump when $Q = 0$ from the maximum operating pressure of the system.

Note concerning materials:

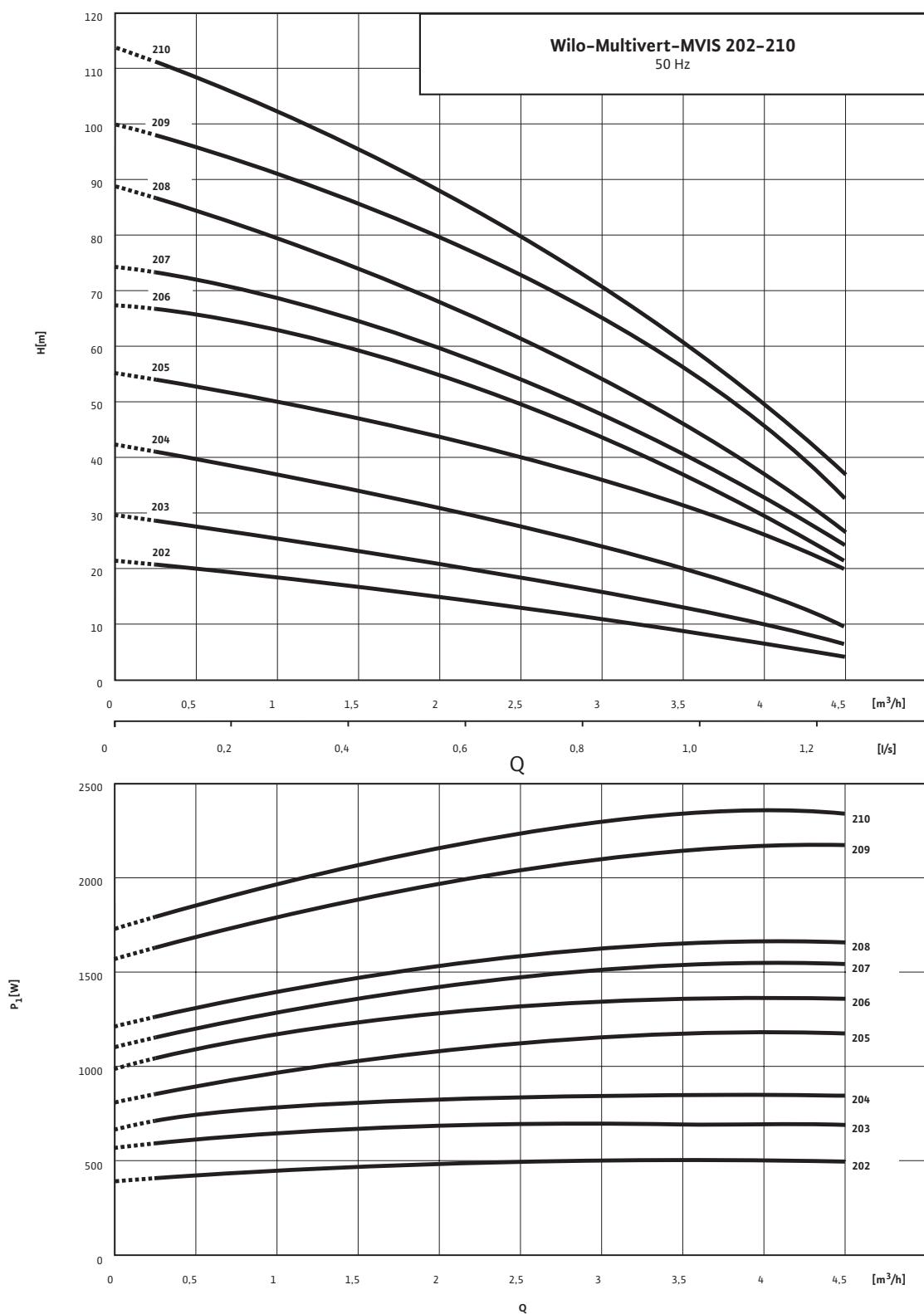
1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIS

Wilo-Multivert MVIS 202 to MVIS 210



Pump curves in accordance with ISO 9906, class 2

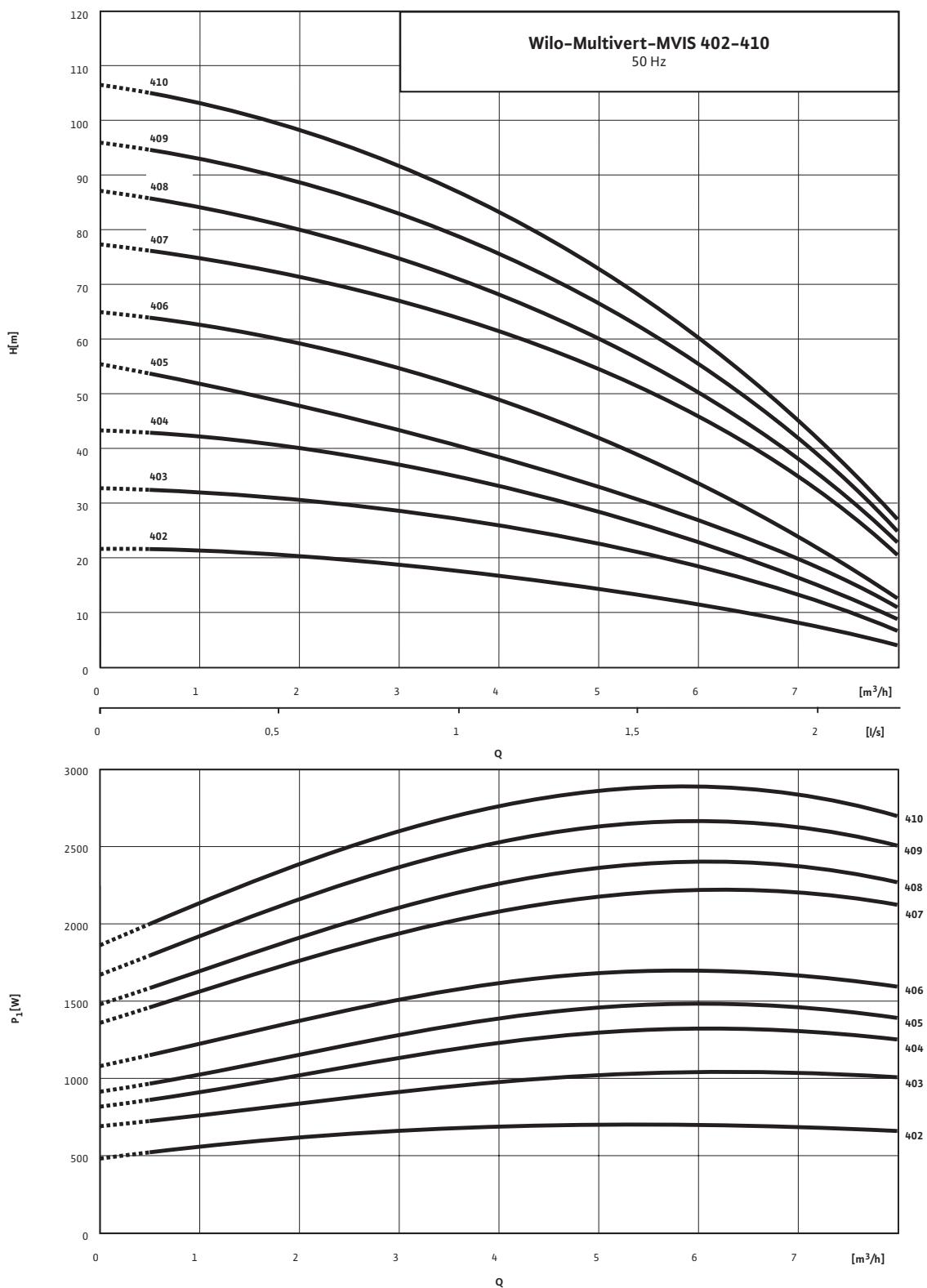
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

WILO

Pump curves Wilo-Multivert MVIS

Wilo-Multivert MVIS 402 to MVIS 410



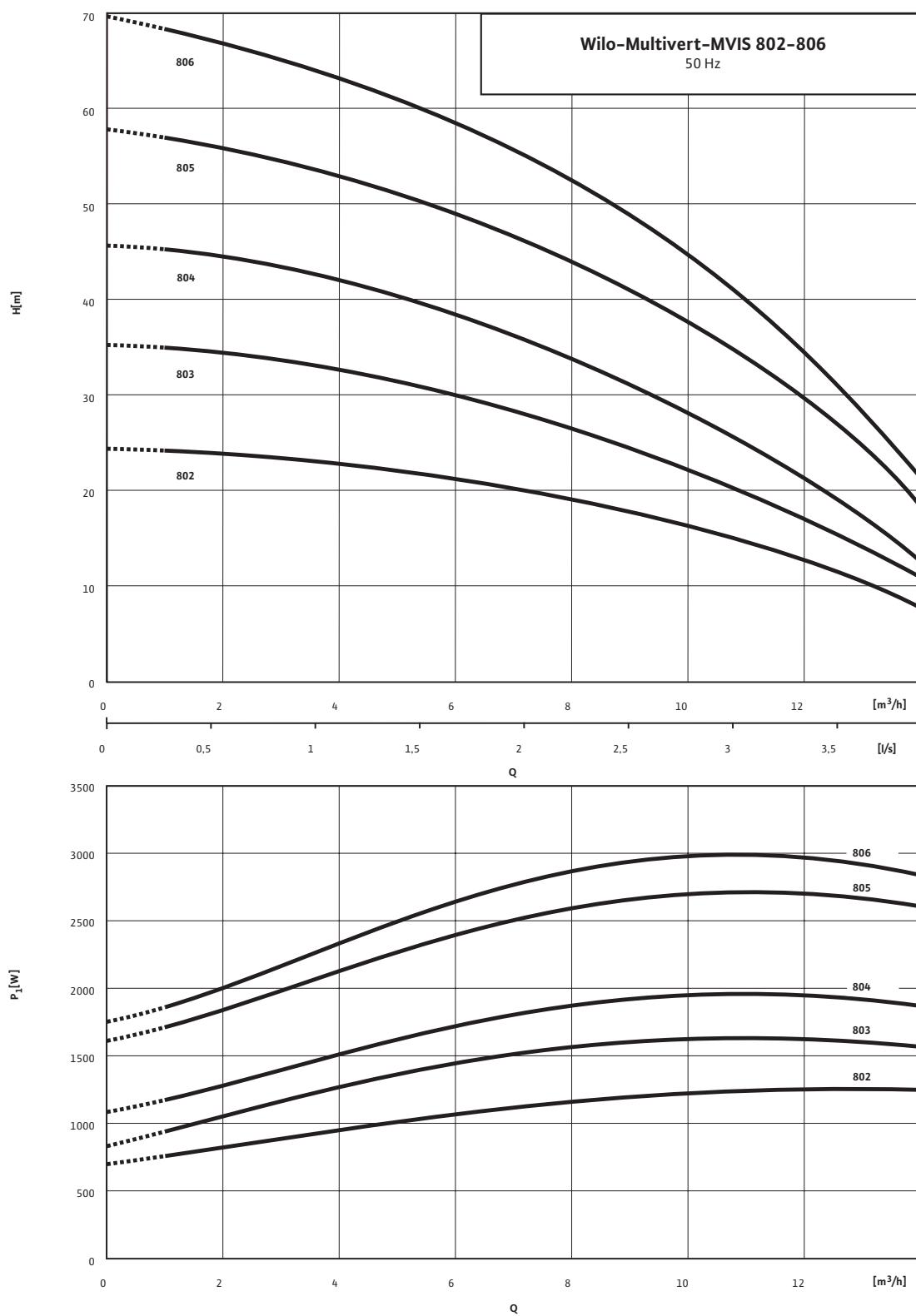
Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIS

Wilo-Multivert MVIS 802 to MVIS 806



Pump curves in accordance with ISO 9906, class 2

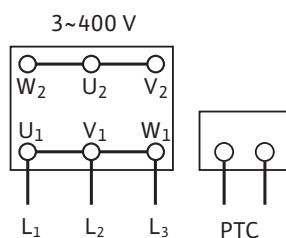
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

WILO

Terminal diagram, motor data Wilo-Multivert MVIS

Terminal diagram



Motor data

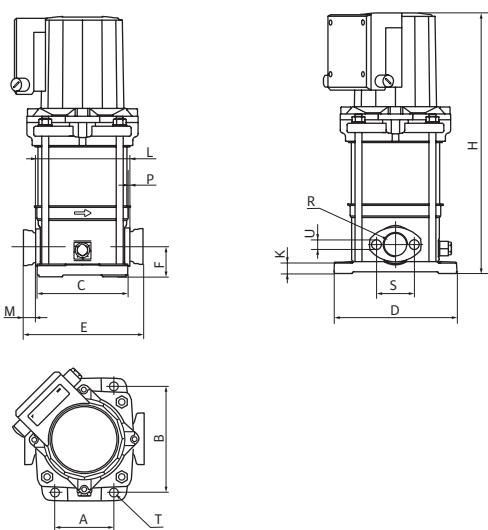
Wilo-Multivert...	Nominal current I _N		Speed n [1/min]	Nominal power P ₁ [W]
	3~230 V [A]	3~400 V [A]		
MVIS 202	2.1	1.2	2800	510
MVIS 203	2.6	1.5	2760	720
MVIS 204	3	1.7	2700	880
MVIS 205	4.5	2.6	2850	1200
MVIS 206	4.9	2.8	2850	1380
MVIS 207	5.2	3	2800	1530
MVIS 208	5.6	3.2	2760	1690
MVIS 209	8	4.6	2880	2140
MVIS 210	8.5	4.9	2870	2330
MVIS 402	2.6	1.5	2800	690
MVIS 403	4.2	2.4	2880	1020
MVIS 404	4.5	2.6	2850	1260
MVIS 405	5.2	3	2800	1480
MVIS 406	5.6	3.2	2750	1700
MVIS 407	8	4.6	2880	2200
MVIS 408	8.5	4.9	2860	2400
MVIS 409	9.2	5.3	2850	2690
MVIS 410	9.7	5.6	2830	2940
MVIS 802	4.5	2.6	2850	1250
MVIS 803	5.4	3.1	2800	1600
MVIS 804	6.3	3.6	2700	1950
MVIS 805	9.2	5.3	2850	2670
MVIS 806	9.7	5.6	2800	2980

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Dimensions, weights Wilo-Multivert MVIS

Dimension drawing



Dimensions, weights

Wilo-Multivert...	A	B	C	D	E ¹⁾	F	H	K	L ²⁾	M	P	R	S	T	U	Weight ³⁾
	[mm]														[kg]	
MVIS 202	100	180	157	212	204	50	354	20	160	20	2	Rp 1	75	12	M 10	16
MVIS 203	100	180	157	212	204	50	378	20	160	20	2	Rp 1	75	12	M 10	17
MVIS 204	100	180	157	212	204	50	402	20	160	20	2	Rp 1	75	12	M 10	17.5
MVIS 205	100	180	157	212	204	50	446	20	160	20	2	Rp 1	75	12	M 10	22.5
MVIS 206	100	180	157	212	204	50	470	20	160	20	2	Rp 1	75	12	M 10	23
MVIS 207	100	180	157	212	204	50	494	20	160	20	2	Rp 1	75	12	M 10	23.5
MVIS 208	100	180	157	212	204	50	518	20	160	20	2	Rp 1	75	12	M 10	23.5
MVIS 209	100	180	157	212	204	50	572	20	160	20	2	Rp 1	75	12	M 10	29
MVIS 210	100	180	157	212	204	50	596	20	160	20	2	Rp 1	75	12	M 10	29
MVIS 402	100	180	157	212	204	50	354	20	160	20	2	Rp 1 1/4	75	12	M 10	16.5
MVIS 403	100	180	157	212	204	50	398	20	160	20	2	Rp 1 1/4	75	12	M 10	21.5
MVIS 404	100	180	157	212	204	50	422	20	160	20	2	Rp 1 1/4	75	12	M 10	22
MVIS 405	100	180	157	212	204	50	446	20	160	20	2	Rp 1 1/4	75	12	M 10	22.5
MVIS 406	100	180	157	212	204	50	470	20	160	20	2	Rp 1 1/4	75	12	M 10	23
MVIS 407	100	180	157	212	204	50	524	20	160	20	2	Rp 1 1/4	75	12	M 10	23.5
MVIS 408	100	180	157	212	204	50	548	20	160	20	2	Rp 1 1/4	75	12	M 10	28.5
MVIS 409	100	180	157	212	204	50	572	20	160	20	2	Rp 1 1/4	75	12	M 10	29
MVIS 410	100	180	157	212	204	50	596	20	160	20	2	Rp 1 1/4	75	12	M 10	29.5
MVIS 802	130	215	187	252	258	80	425	20	200	25	4	Rp 1 1/2	100	12	M 12	25
MVIS 803	130	215	187	252	258	80	455	20	200	25	4	Rp 1 1/2	100	12	M 12	25.5
MVIS 804	130	215	187	252	258	80	485	20	200	25	4	Rp 1 1/2	100	12	M 12	26
MVIS 805	130	215	187	252	258	80	545	20	200	25	4	Rp 1 1/2	100	12	M 12	31.5
MVIS 806	130	215	187	252	258	80	575	20	200	25	4	Rp 1 1/2	100	12	M 12	32

¹⁾ dimension including mating flange (2 pcs. à 25 mm)

²⁾ dimension without mating flange

³⁾ including mating flange, without packaging

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Single-head pumps

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Version overview Wilo-Multivert MVI

	Wilo-Multivert MVI...		
	1/2/4/8/16-6	16/32/52	32..C/52..C/70/95
Material			
Pump base EN-GJL-250 with cataphoresis coating hydraulics in 1.4301/1.4404 (AISI 304/316L)	–	•	•
Parts that come into contact with the fluid in 1.4301 (AISI 304)	•	–	•
Parts that come into contact with the fluid in 1.4404 (AISI 316L)	•	•	–
Seal versions			
EPDM	•	•	•
Viton	•	•	•
Hydraulic connection			
Screw thread	–	–	–
Oval flange	•	–	–
Round flange	•	•	•
Victaulic quick coupling	•	–	–
Motor versions			
Individual motors	optional	optional	optional
1~230 V, 50 Hz	• (to $P_2 = 1.5 \text{ kW}$)	–	–
3~230 V, 50 Hz	optional (to $P_2 = 4 \text{ kW}$ for 230/400 V; starting with $P_2 = 5.5 \text{ kW}$ only 400 V Δ)		
3~400 V, 50 Hz	–	–	•
3~500 V, 50 Hz	optional	optional	optional
1~110 V, 60 Hz	optional	optional	–
1~220 V, 60 Hz	optional	optional	–
3~380 V, 60 Hz	optional	optional	•
3~400 V, 60 Hz	optional	optional	optional
3~440 V, 60 Hz	optional	optional	optional
3~460 V, 60 Hz	optional	optional	optional
3~480 V, 60 Hz	optional	optional	optional
3~380 V to 440 V and 50 Hz to 60 Hz	–	–	–
IP 44	–	–	–
IP 54	–	–	–
IP 55	•	•	•
Ex-protected motors	optional	optional	optional
Motors with PTC thermistors	optional	optional	optional
Motors with UL certificates	optional	optional	optional
Motors with CSA certificates	optional	optional	optional

• = available, – = not available

High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Version overview Wilo-Multivert MVI

	Wilo-Multivert MVI...		
	1/2/4/8/16-6	16/32/52	32..C/52..C/70/95
Motor versions (continued)			
Thermal motor protection (Up to $P_2=1.5$ kW inclusive)	optional	–	–
RPM-regulated by means of external frequency converter (FU)	•	•	•
Integrated frequency converter	–	–	–
Paintwork			
Custom paintwork	optional	optional	optional
Mechanical seals			
Tungsten carbide/carbon	•	•	•
Tungsten carbide/tungsten carbide	optional	optional	optional
SiC/SiC	optional	optional	optional
Potable water authorisations			
KTW	•	•	•
WRAS	•	•	•

• = available, – = not available

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Technical data Wilo-Multivert MVI

	Wilo-Multivert MVI...							
	1..	2..	4..	8..	16..-6	16..	32..	52..
Approved fluids								
Potable water, heating water, process water	•	•	•	•	•	•	•	•
Condensate	•	•	•	•	•	•	•	•
Water-glycol mixture (up to 40% vol. share of glycol/performance check required starting with 10% vol. share of glycol)	•	•	•	•	•	•	•	•
Other low-viscosity fluids (without abrasive or long-fibre constituents, insofar as they do not attack the materials used)	•	•	•	•	•	•	•	•
Performance (with 50 Hz operation)								
Maximum flow volume [m ³ /h]	3	5	8	14	25	25	50	70
Maximum delivery head [m]	230	230	210	230	130	240	220	180
Fluid temperature [°C]	-15 to +120							
Ambient temperature [°C]	40	40	40	40	40	40	40	40
Operating pressure [bar]	16/25							
Intake pressure [bar]	10	10	10	10	10	10	10	10
Rated motor speed [1/min]	2950							
Motor								
Mains connection 1~ [V/Hz] (permitted voltage tolerance ± 10%)	230/50 or 220/60 (Up to 1.5 kW)							
Mains connection 3~ [V/Hz] (permitted voltage tolerance ± 10%)	230/50 Δ or 220/60 Δ (up to 4.0 kW) 400/50 Y or 380/60 Y (starting with 5.5 kW) 400/50 Δ or 380/60 Δ (starting with 5.5 kW)							
Insulation class	F	F	F	F	F	F	F	F
Radio interference level	EN 61800-3							
Protection class	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55
Connections								
Nominal width pipe connections [Rp]	-	-	-	-	-	-	-	-
Flange connections in PN16/PN25 [DN]	25	25	32	40	50	50	65	80
Victral connections	•	•	•	•	•	-	-	-
Materials								
Impellers	1.4301/1.4404 (MVI 16-6 only in 1.4301)							
Stage chambers	1.4301/1.4404 (MVI 16-6 only in 1.4301)							
Pump housing	1.4301/1.4404					EN-GJL-250/1.4404		
Shaft	1.4301/1.4404					1.4057/1.4404		

• = available, - = not available

Note on intake pressure:

Maximum intake pressure is calculated by subtracting the maximum delivery head of the pump when Q = 0 from the maximum operating pressure of the system.

Note concerning materials:

1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Technical data Wilo-Multivert MVI

	Wilo-Multivert MVI...							
	1..	2..	4..	8..	16..-6	16..	32..	52..
Materials (continued)								
Seal			EPDM (EP 851)/Viton			EPDM (EP 851)/Viton		
Housing cover				1.4301/1.4404				
Housing, lower part			1.4301/1.4404			-	-	-
Mechanical seal				B-carbon/tungsten carbide SiC/carbon				
Pressure shell				1.4301/1.4404				
Bearing				tungsten carbide				
Pump base			EN-GJL-250			-	-	-
Pump base (in contact with the flow medium)	-	-	-	-	-		EN-GJL-250/1.4408	

• = available, - = not available

Note on intake pressure:

Maximum intake pressure is calculated by subtracting the maximum delivery head of the pump when $Q = 0$ from the maximum operating pressure of the system.

Note concerning materials:

1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Technical data Wilo-Multivert MVI

	Wilo-Multivert MVI...			
	32..C	52..C	70..	95..
Approved fluids				
Potable water, heating water, process water	•	•	•	•
Condensate	–	–	–	–
Water-glycol mixture (up to 40% vol. share of glycol/performance check required starting with 10% vol. share of glycol)	•	•	•	•
Other low-viscosity fluids (without abrasive or long-fibre constituents, insofar as they do not attack the materials used)	•	•	•	•
Performance (with 50 Hz operation)				
Maximum flow volume [m ³ /h]	50	70	100	140
Maximum delivery head [m]	220	180	172	150
Fluid temperature [°C]	-15 to + 120	-15 to + 120	-15 to + 120	-15 to + 120
Ambient temperature [C]	40	40	40	40
Operating pressure [bar]	25	25	16/25	16/25
Intake pressure [bar]	10	10	10	10
Rated motor speed [1/min]	2900	2900	2900	2900
Motor				
Mains connection 1~ [V/Hz] (permitted voltage tolerance ± 10%)	–	–	–	–
Mains connection 3~ [V/Hz] (permitted voltage tolerance ± 10%)	230/50Δ (only MVI 7001/1) 400/50 Δ or 380/60 Δ (starting with 5.5 kW)			
Insulation class	F	F	F	F
Radio interference level	–	–	–	–
Protection class	IP 55	IP 55	IP 55	IP 55
Connections				
Nominal width pipe connections [Rp]	–	–	–	–
Flange connections in PN16/PN25 [DN]	65	80	100	100
Victrallic connections	–	–	–	–
Materials				
Impellers	1.4301	1.4301	1.4301	1.4301
Stage chambers	1.4301	1.4301	1.4301	1.4301
Pump housing	1.4301	1.4301	1.4301	1.4301
Shaft	1.4301	1.4301	1.4301	1.4301
Seal	EPDM	EPDM	EPDM	EPDM

• = available, – = not available

Note on intake pressure:

Maximum intake pressure is calculated by subtracting the maximum delivery head of the pump when Q = 0 from the maximum operating pressure of the system.

Note concerning materials:

1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

High-Pressure Multistage Centrifugal Pumps



Single-head pumps

Technical data Wilo-Multivert MVI

	Wilo-Multivert MVI...			
	32..C	52..C	70..	95..
Materials (continued)				
Housing cover	1.4301	1.4301	1.4301	1.4301
Housing, lower part			1.4031/1.4404	
Mechanical seal		tungsten carbide/carbon EPDM		
Pressure shell		1.4031/1.4404		
Bearing		tungsten carbide		
Pump base		EN-GJL-250 (KTL-coated)		
Pump base (in contact with the flow medium)	-	-	-	-

• = available, - = not available

Note on intake pressure:

Maximum intake pressure is calculated by subtracting the maximum delivery head of the pump when $Q = 0$ from the maximum operating pressure of the system.

Note concerning materials:

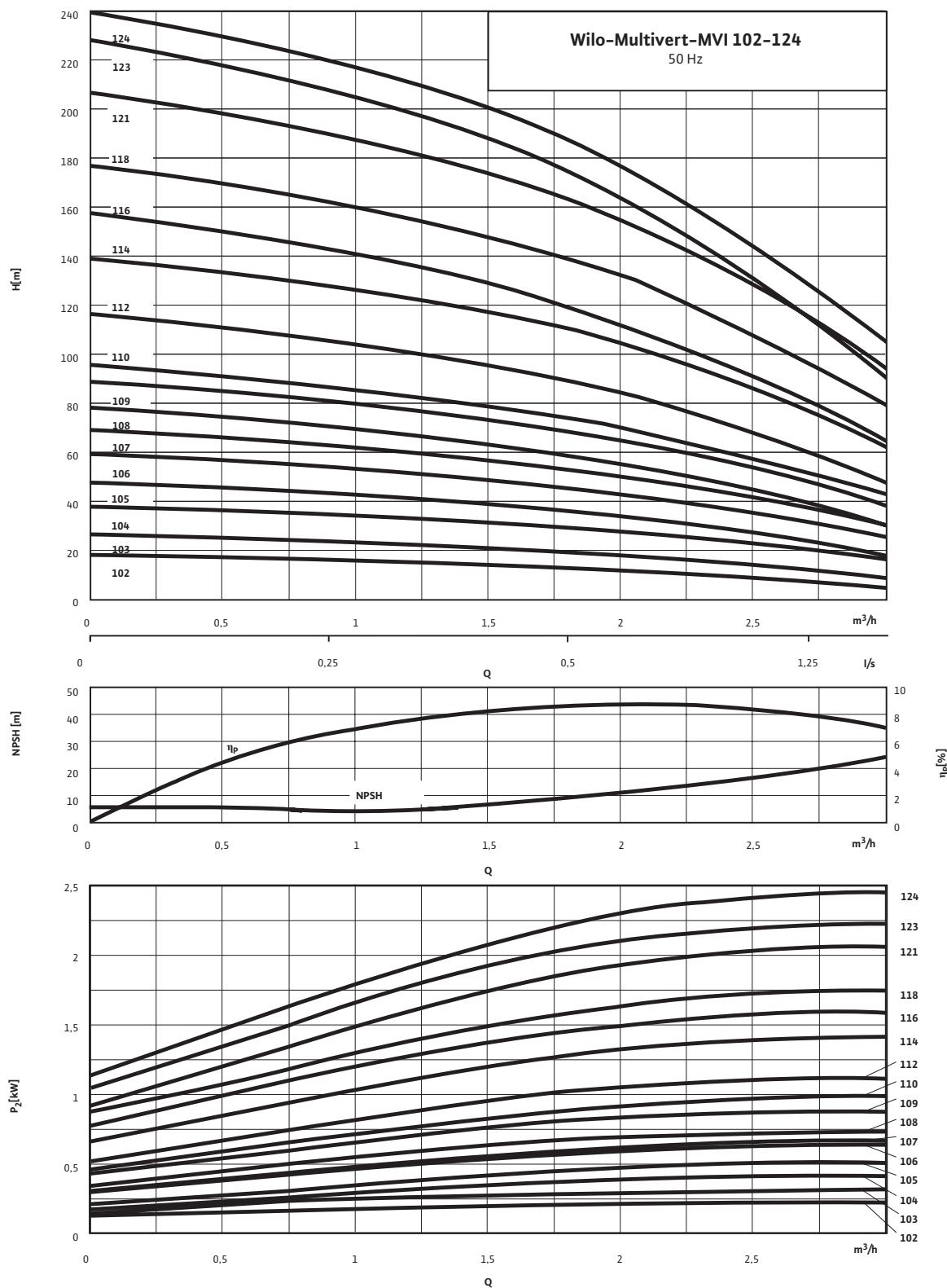
1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVI 1../2../4../8../16..-6

Wilo-Multivert MVI 102 to MVI 124



Pump curves in accordance with ISO 9906, class 2

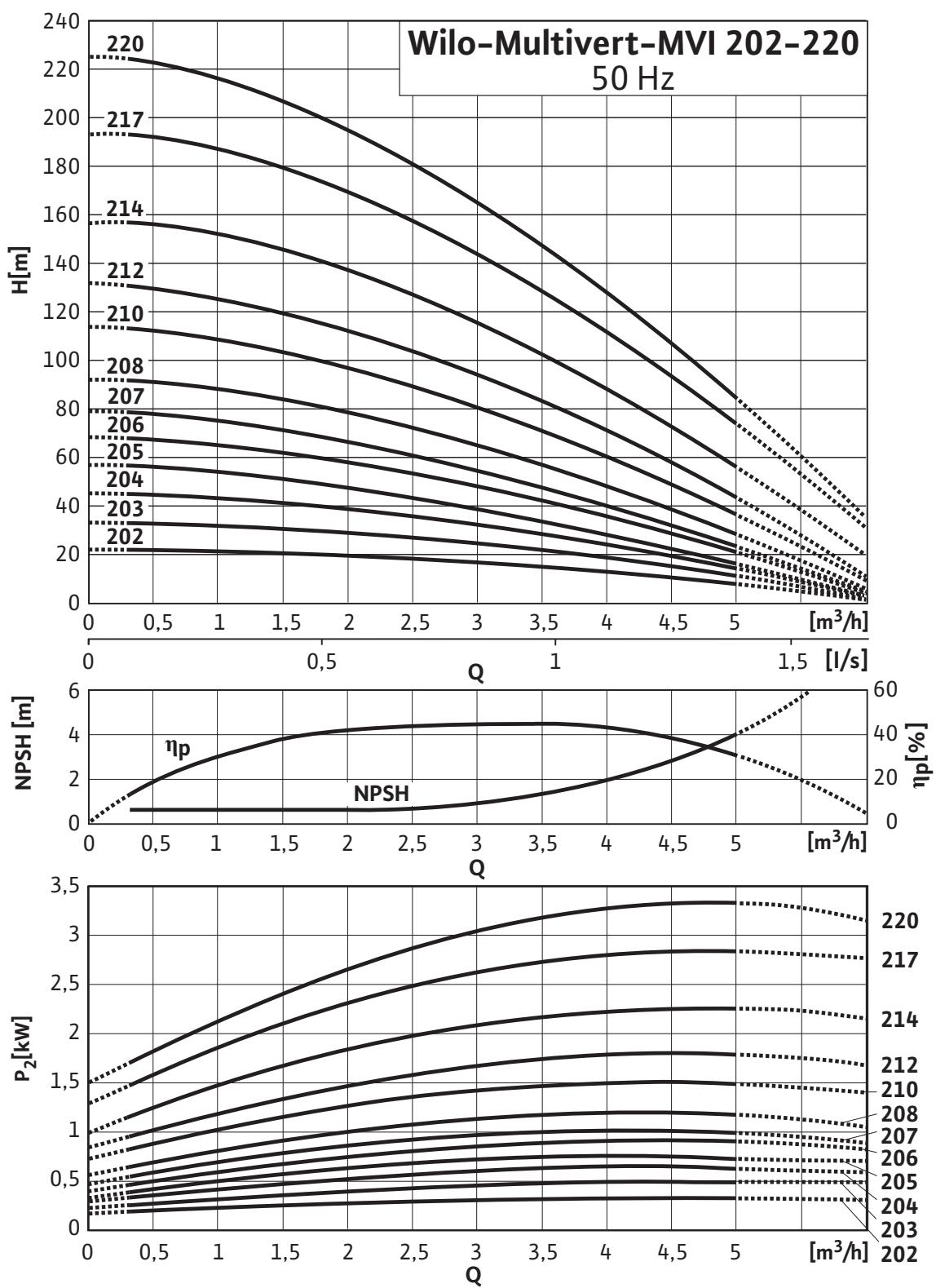
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

WILO

Pump curves Wilo-Multivert MVI 1../2../4../8../16..-6

Wilo-Multivert MVI 202 to MVI 220



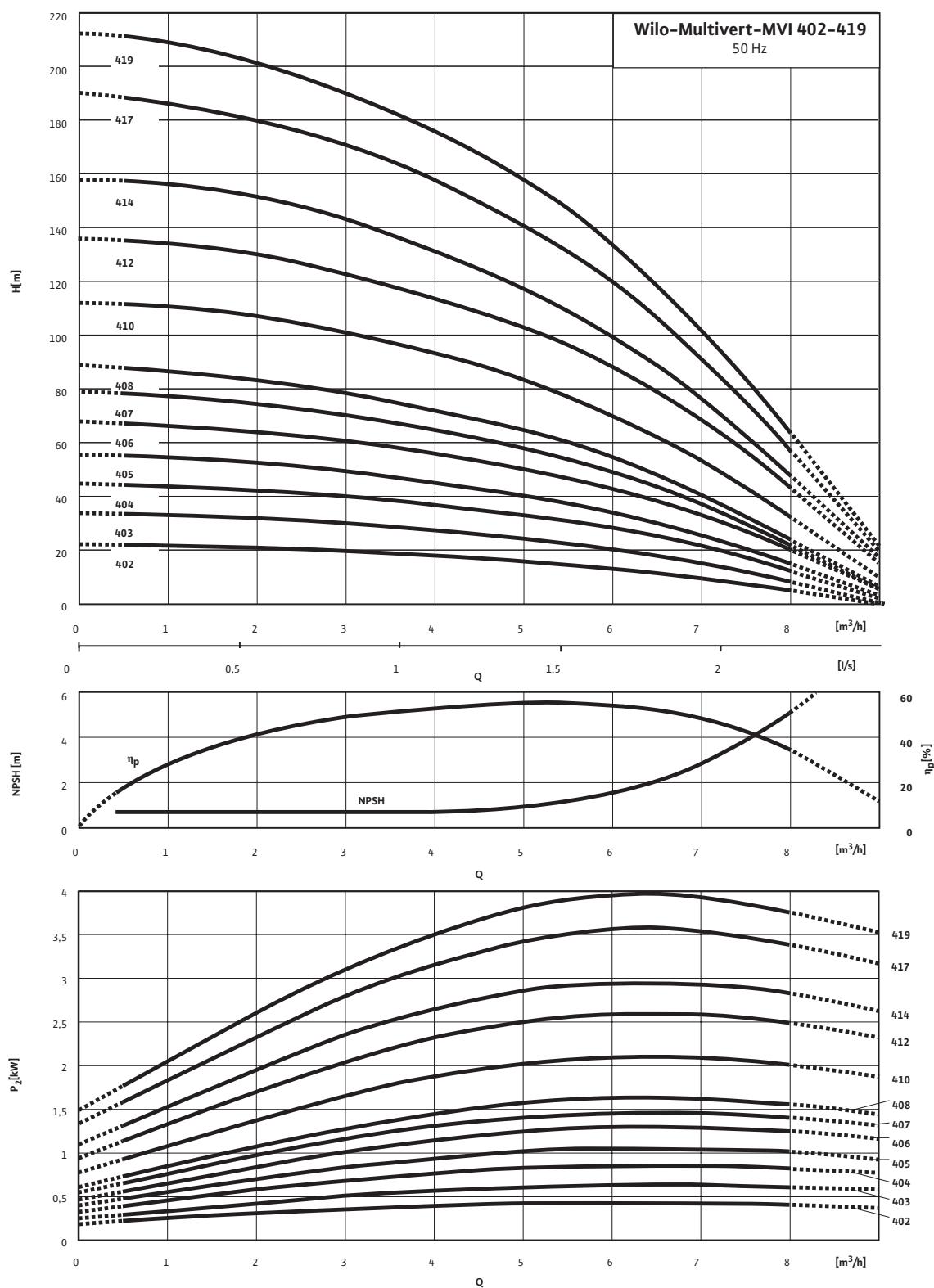
Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVI 1../2../4../8../16..-6

Wilo-Multivert MVI 402 to MVI 419



Pump curves in accordance with ISO 9906, class 2

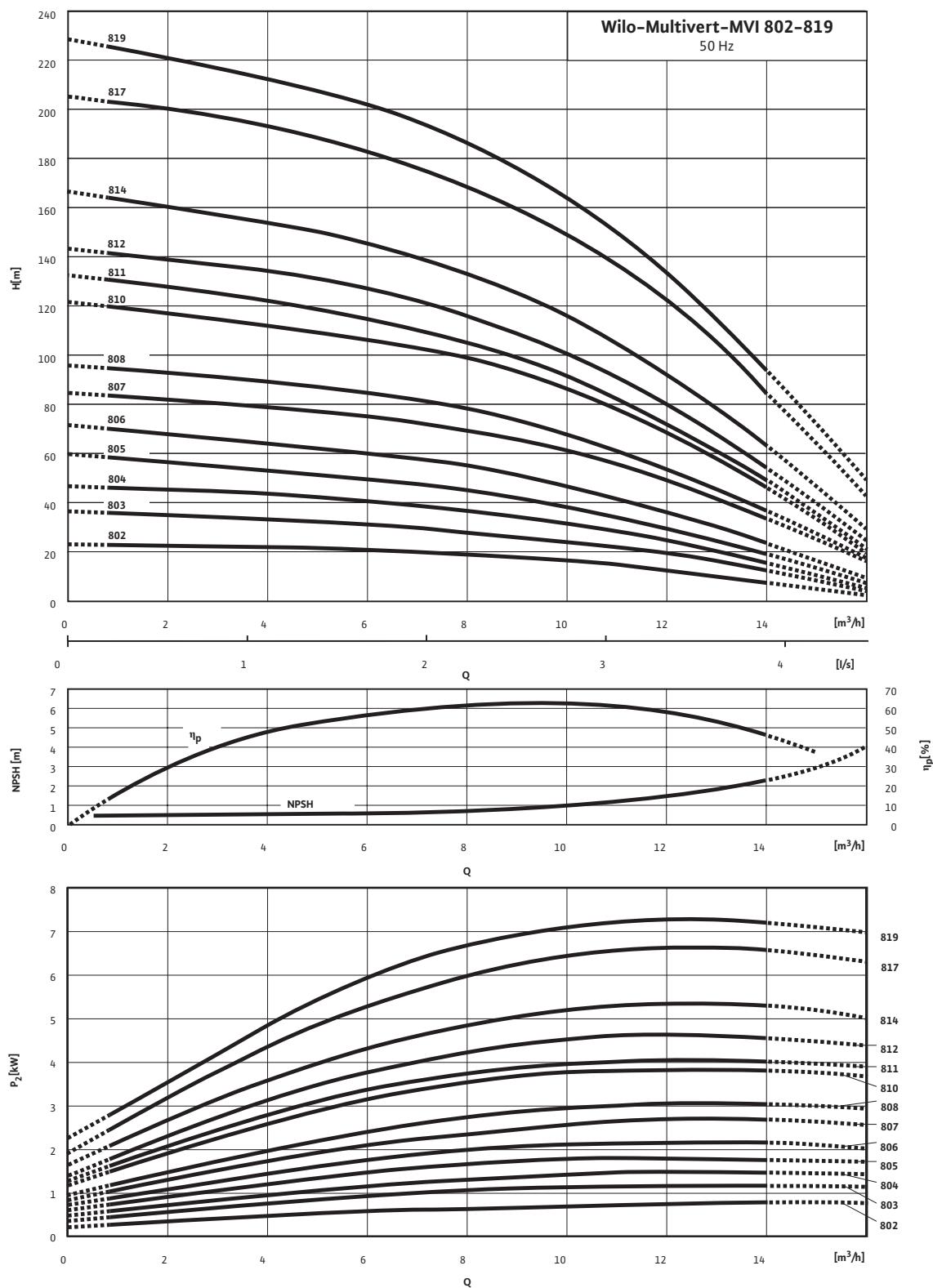
High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Pump curves Wilo-Multivert MVI 1.../2.../4.../8.../16...-6

Wilo-Multivert MVI 802 to MVI 819



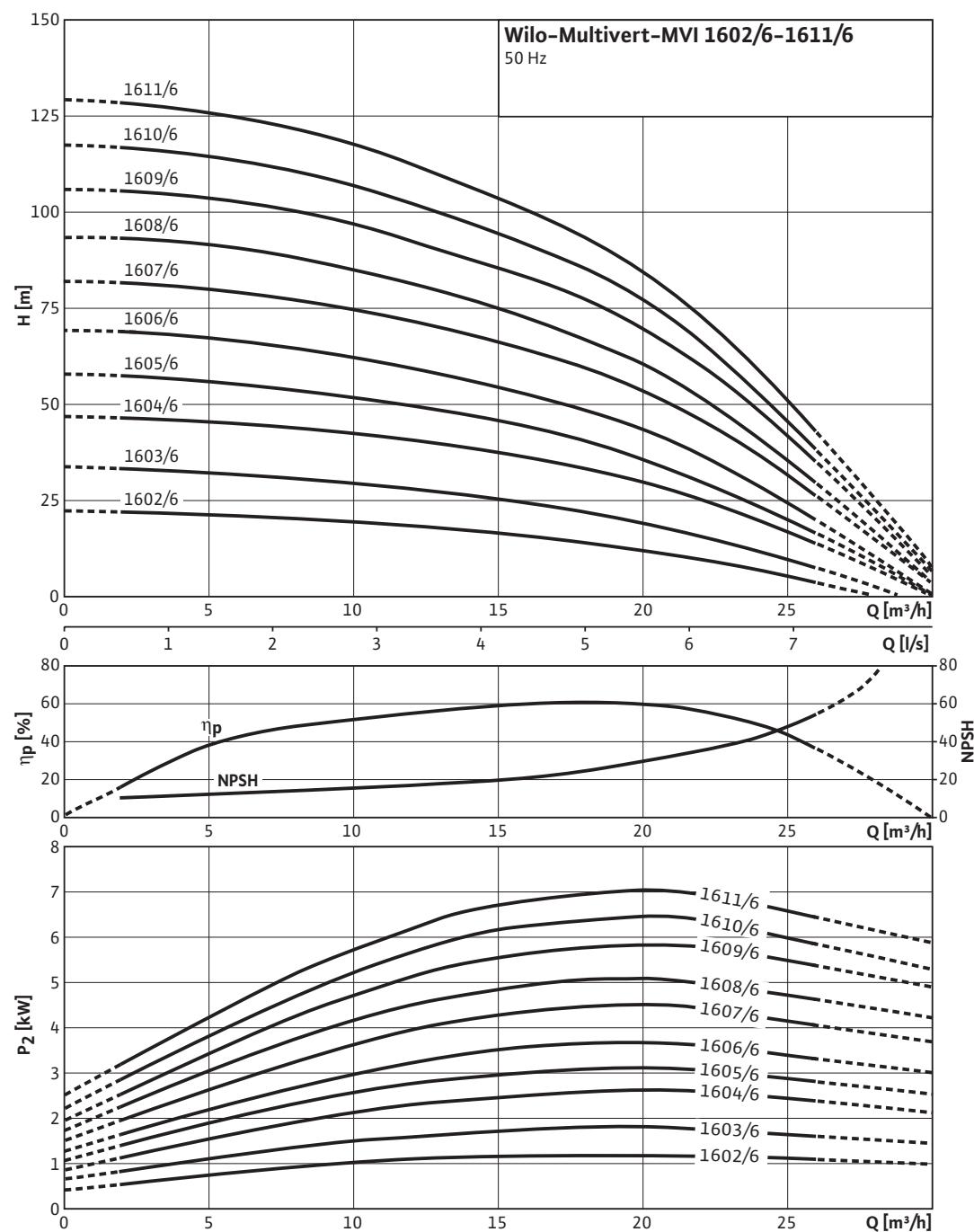
Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVI 1../2../4../8../16..-6

Wilo-Multivert MVI 1602-6 to MVI 1611-6



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

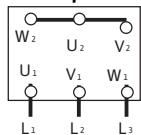
WILO

Single-head pumps

Terminal diagram, motor data Wilo-Multivert MVI 1.../2.../4.../8.../16...-6

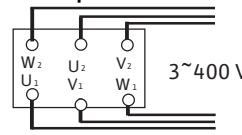
Terminal diagram

Three-phase current $\leq 4 \text{ kW}$

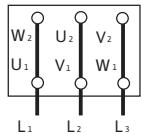


3~400 V

Three-phase current $\geq 5.5 \text{ kW}$; Y- Δ -direct starting

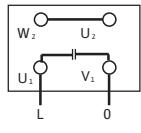


3~400 V



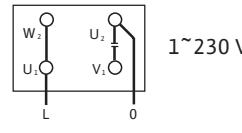
3~230 V

AC



1~230 V

AC with incorrect direction of rotation



1~230 V

Motor data

Wilo-Multivert...	Nominal power P_2 [kW]	Nominal current I_N		
		1~230 V	3~230 V	3~400 V
MVI 102	0.37	2.7	1.6	0.93
MVI 103	0.37	2.7	1.6	0.93
MVI 104	0.55	3.6	2.28	1.32
MVI 105	0.55	3.6	2.28	1.32
MVI 106	0.75	4.85	2.94	1.7
MVI 107	0.75	4.85	2.94	1.7
MVI 108	0.75	4.85	2.94	1.7
MVI 109	1.1	6.6	4.15	2.4
MVI 110	1.1	6.6	4.15	2.4
MVI 112	1.1	6.6	4.15	2.4
MVI 114	1.5	9.1	5.5	3.2
MVI 116	1.85	—	6.75	3.9
MVI 118	1.85	—	6.75	3.9
MVI 121	2.2	—	7.8	4.5
MVI 123	2.2	—	7.8	4.5
MVI 124	3.0	—	10.4	6.0
MVI 202	0.37	2.6	1.6	0.95
MVI 203	0.55	3.5	2.3	1.35
MVI 204	0.75	4.9	2.9	1.7
MVI 205	0.75	4.9	2.9	1.7
MVI 206	1.1	6.6	4.2	2.4
MVI 207	1.1	6.6	4.2	2.4
MVI 208	1.5	9.1	5.5	3.2
MVI 210	1.5	9.1	5.5	3.2
MVI 212	1.85	—	7.0	4.0
MVI 214	2.2	—	7.6	4.4

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Terminal diagram, motor data Wilo-Multivert MVI 1../2../4../8../16..-6

Motor data				
Wilo-Multivert...	Nominal power P_2 [kW]	Nominal current I_N		
		1~230 V	3~230 V [A]	3~400 V
MVI 217	3.0	–	10.9	6.3
MVI 220	3.7	–	13.5	7.8
MVI 402	0.55	3.5	2.3	1.35
MVI 403	0.75	4.9	2.9	1.7
MVI 404	1.1	6.6	4.2	2.4
MVI 405	1.1	6.6	4.2	2.4
MVI 406	1.5	9.1	5.5	3.2
MVI 407	1.5	9.1	5.5	3.2
MVI 408	1.85	–	7.0	4.0
MVI 410	2.2	–	7.6	4.4
MVI 412	3.0	–	10.9	6.3
MVI 414	3.0	–	10.9	6.3
MVI 417	3.7	–	13.5	7.8
MVI 419	4.0	–	14.5	8.4
MVI 802	0.75	4.8	2.9	1.7
MVI 803	1.1	6.6	4.2	2.4
MVI 804	1.5	9.1	5.5	3.2
MVI 805	1.85	–	7.0	4.0
MVI 806	2.2	–	7.6	4.4
MVI 807	3.0	–	10.9	6.3
MVI 808	3.0	–	10.9	6.3
MVI 810	3.7	–	13.5	7.8
MVI 811	4.0	–	14.5	8.4
MVI 812	5.5	–	–	10.5
MVI 814	5.5	–	–	10.5
MVI 817	7.5	–	–	14.3
MVI 819	7.5	–	–	14.3
MVI 1602-6	1.5	–	5.5	3.2
MVI 1603-6	2.2	–	7.6	4.4
MVI 1604-6	3.0	–	10.9	6.3
MVI 1605-6	3.7	–	13.5	7.8
MVI 1606-6	4.0	–	14.5	8.4
MVI 1607-6	5.5	–	–	10.8
MVI 1608-6	5.5	–	–	10.8
MVI 1609-6	7.5	–	–	14.3
MVI 1610-6	7.5	–	–	14.3
MVI 1611-6	7.5	–	–	14.3

High-Pressure Multistage Centrifugal Pumps

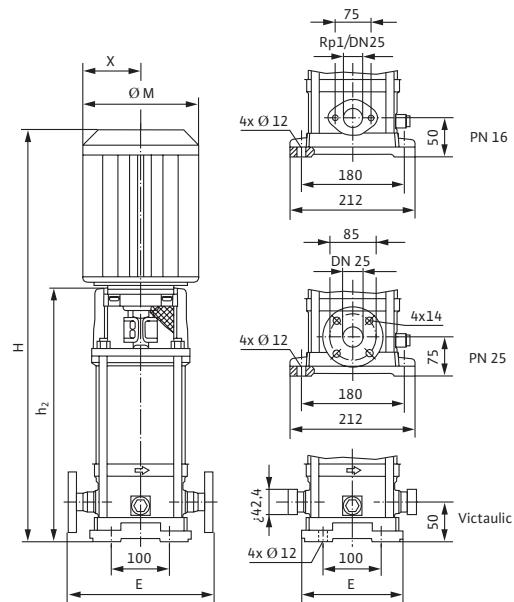
WILO

Single-head pumps

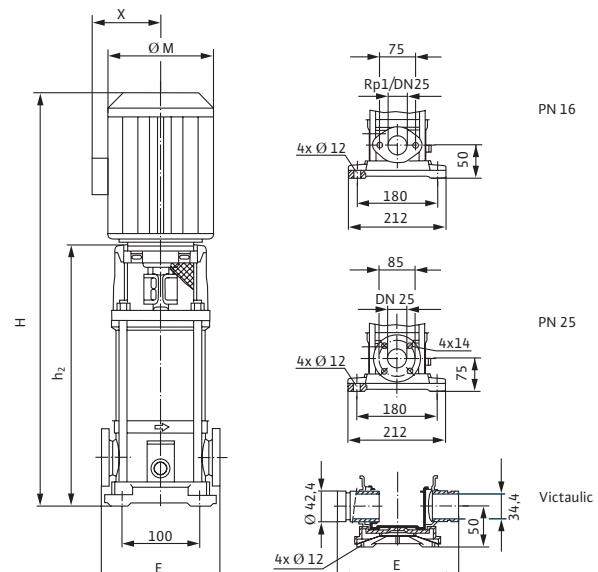
Dimensions Wilo-Multivert MVI 1../2../4../8../16..-6

Dimension drawings

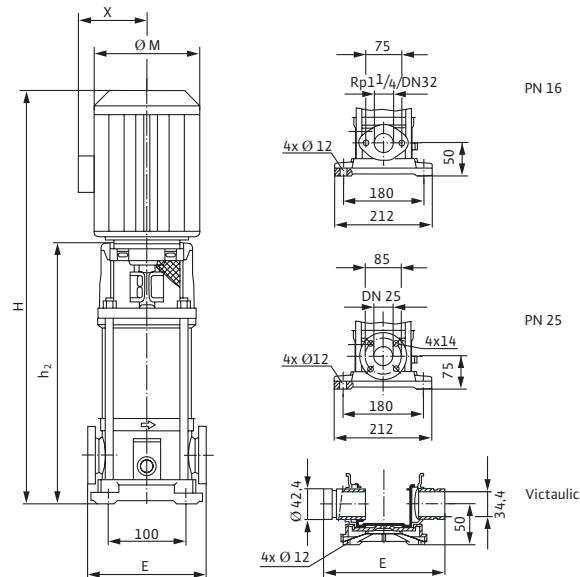
Wilo-Multivert MVI 102 to 124



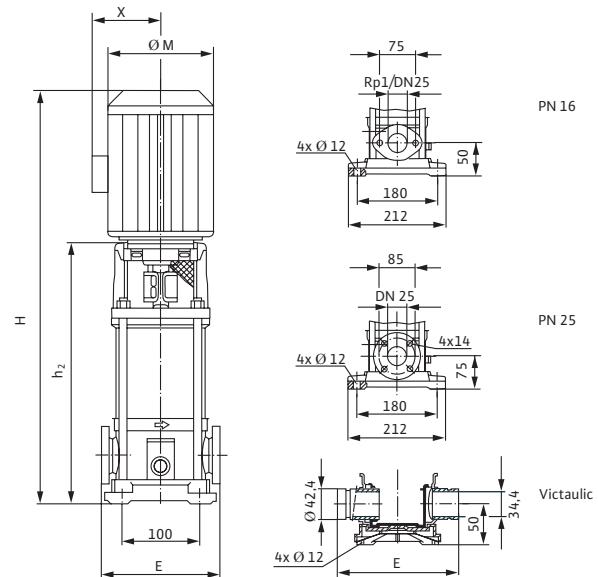
Wilo-Multivert MVI 202 to 220



Wilo-Multivert MVI 402 to 413



Wilo-Multivert MVI 802 to MVI 819



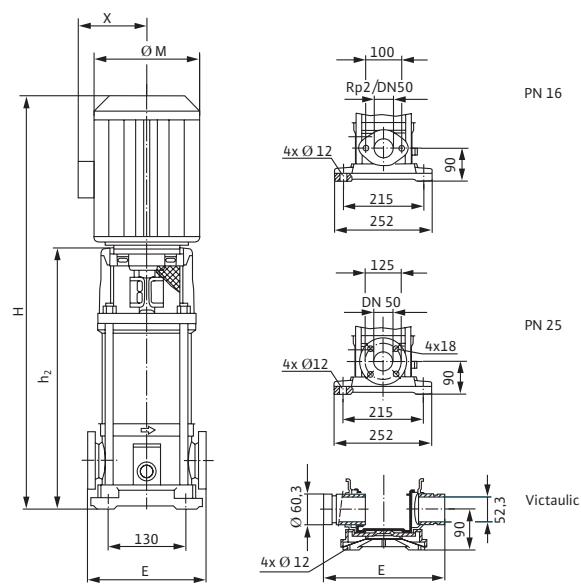
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Dimensions Wilo-Multivert MVI 1../2../4../8../16..-6

Dimension drawings

Wilo-Multivert MVI 1602-6 to 1611-6



High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Dimensions, weights Wilo-Multivert MVI 1../2../4../8../16..-6

Dimensions, weights

Wilo-Multivert...	Version PN 16 oval flange									
	E	H		h	Ø M		X		Weight ¹⁾	
		1~230 V	3~400 V		1~230 V	3~400 V	1~230 V	3~400 V	1~230 V	3~400 V
[mm]									[kg]	
MVI 102	204	490	528	305	140	140	107	118	19.5	18.8
MVI 103	204	506	528	305	140	140	107	118	19.7	19.0
MVI 104	204	506	528	305	140	140	107	118	20.6	19.7
MVI 105	204	530	568	345	140	140	107	118	21.9	21.0
MVI 106	204	570	598	355	162	170	121	127	24.0	23.9
MVI 107	204	590	618	375	162	170	121	127	24.7	24.6
MVI 108	204	630	658	415	162	170	121	127	25.9	25.8
MVI 109	204	630	658	415	162	170	121	127	27.8	27.2
MVI 110	204	650	678	435	162	170	121	127	28.4	27.8
MVI 112	204	690	718	475	162	170	121	127	29.8	29.2
MVI 114	204	770	791	525	182	193	131	151	39.9	35.6

¹⁾ including mating flange, without packaging

Dimensions, weights

Wilo-Multivert...	Version PN 25 round flange									
	E	H		h	Ø M		X		Weight ¹⁾	
		1~230 V	3~400 V		1~230 V	3~400 V	1~230 V	3~400 V	1~230 V	3~400 V
[mm]									[kg]	
MVI 102	250	515	552	330	140	140	107	118	20.6	19.9
MVI 103	250	515	552	330	140	140	107	118	20.8	20.1
MVI 104	250	515	552	330	140	140	107	118	21.8	20.9
MVI 105	250	555	592	370	140	140	107	118	23.0	22.1
MVI 106	250	595	623	380	162	170	121	127	25.1	25.0
MVI 107	250	615	643	400	162	170	121	127	25.8	25.7
MVI 108	250	655	683	440	162	170	121	127	27.0	26.9
MVI 109	250	655	683	440	162	170	121	127	28.9	28.3
MVI 110	250	675	703	460	162	170	121	127	29.6	29.0
MVI 112	250	715	743	500	162	170	121	127	30.9	30.3
MVI 114	250	795	816	550	182	193	131	151	41.0	36.7
MVI 116	250	—	856	590	—	193	—	151	—	38.9
MVI 118	250	—	896	630	—	193	—	151	—	40.3
MVI 121	250	—	956	690	—	193	—	151	—	44.4
MVI 123	250	—	1016	750	—	193	—	151	—	46.3
MVI 124	250	—	1055	760	—	217	—	160	—	51.1

¹⁾ without packaging

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Dimensions, weights Wilo-Multivert MVI 1../2../4../8../16..-6

Dimensions, weights								
Wilo-Multivert...	Version PN 25 Victaulic							
	E	H	h	Ø M		X		Weight
		3~400 V		1~230 V	3~400 V	1~230 V	3~400 V	3~400 V
[mm]								[kg]
MVI 102	210	528	305	140	140	107	118	19.9
MVI 103	210	528	305	140	140	107	118	20.1
MVI 104	210	528	305	140	140	107	118	20.9
MVI 105	210	568	345	140	140	107	118	22.1
MVI 106	210	598	355	162	170	121	127	25.0
MVI 107	210	618	375	162	170	121	127	25.7
MVI 108	210	658	415	162	170	121	127	26.9
MVI 109	210	658	415	162	170	121	127	28.3
MVI 110	210	678	435	162	170	121	127	29.0
MVI 112	210	718	475	162	170	121	127	30.3
MVI 114	210	791	525	182	193	131	151	36.7
MVI 116	210	831	565	—	193	—	151	38.9
MVI 118	210	871	605	—	193	—	151	40.3
MVI 121	210	931	665	—	193	—	151	44.4
MVI 123	210	991	725	—	193	—	151	46.3
MVI 124	210	1030	735	—	217	—	160	51.1

Dimensions, weights								
Wilo-Multivert...	Version PN 16 oval flange							
	E ¹⁾	H		h ₂	Ø M	X	Weight ²⁾	
		1~230 V	3~400 V				1~230 V	3~400 V
[mm]								[kg]
MVI 202	204	481.5	481.5	296.5	150	123	18.5	18
MVI 203	204	519	519	296.5	150	123	19.3	18.8
MVI 204	204	546	574	330.5	170	143	22.6	22.1
MVI 205	204	570	598	354.5	170	143	23.1	22.6
MVI 206	204	594	622	378.5	170	143	25.5	25
MVI 207	204	628	656	402.5	170	143	26	25.5
MVI 208	204	682	703	436.5	190	148	31	30.5
MVI 210	204	730	751	484.5	190	148	32.3	31.8
MVI 212	204	—	799	532.5	190	148	—	33
MVI 214	—	—	—	—	—	—	—	—
MVI 217	—	—	—	—	—	—	—	—
MVI 220	—	—	—	—	—	—	—	—
MVI 402	204	519	481.5	296.5	150	123	19.3	18.8
MVI 403	204	522	550	306.5	170	143	22.5	22
MVI 404	204	546	574	330.5	170	143	24	23.5
MVI 405	204	570	598	354.5	170	143	24.9	24.4
MVI 406	204	634	655	388.5	190	148	29.5	29
MVI 407	204	658	679	412.5	190	148	30.2	29.7

¹⁾ dimensions including mating flange (2 pcs. à 25 mm)

²⁾ including mating flange, without packaging

High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Dimensions, weights Wilo-Multivert MVI 1../2../4../8../16..-6

Dimensions, weights

Wilo-Multivert...	Version PN 16 oval flange							
	E ¹⁾	H		h ₂	Ø M	X	Weight ²⁾	
		1~230 V	3~400 V				1~230 V	3~400 V
[mm]								
MVI 408	204	—	703	436.5	190	148	—	30.5
MVI 410	204	—	751	484.5	190	148	—	34
MVI 412	204	—	838	542.5	213	158	—	41.2
MVI 414	—	—	—	—	—	—	—	—
MVI 417	—	—	—	—	—	—	—	—
MVI 419	—	—	—	—	—	—	—	—
MVI 802	250	574	574	334	170	143	24.1	23.6
MVI 803	250	604	604	364	170	143	26	25.5
MVI 804	250	654	684	404	190	148	31	30.5
MVI 805	250	—	714	434	190	148	—	31.3
MVI 806	250	—	744	464	190	148	—	34.5
MVI 807	250	—	824	504	213	158	—	41.1
MVI 808	250	—	854	534	213	158	—	42
MVI 810	250	—	919	593	213	158	—	43.8
MVI 811	250	—	1054	654	240	170	—	45
MVI 812	250	—	1054	654	240	170	—	54.5
MVI 814	—	—	—	—	—	—	—	—
MVI 817	—	—	—	—	—	—	—	—
MVI 819	—	—	—	—	—	—	—	—
MVI 1602-6	250	—	636	368.5	190	151	—	31
MVI 1603-6	250	—	712	443.5	190	151	—	35
MVI 1604-6	250	—	751	453.5	210	160	—	41.1
MVI 1605-6	250	—	827	528.5	210	160	—	51.3
MVI 1606-6	250	—	827	528.5	240	160	—	51.7
MVI 1607-6	250	—	933	603.5	240	168	—	53.4
MVI 1608-6	250	—	933	603.5	240	168	—	53.9
MVI 1609-6	250	—	1099	698	280	180	—	76
MVI 1610-6	250	—	1099	698	280	180	—	76.4
MVI 1611-6	250	—	1175	773	280	180	—	76.8

¹⁾ dimensions including mating flange (2 pcs. à 25 mm)

²⁾ including mating flange, without packaging

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Dimensions, weights Wilo-Multivert MVI 1../2../4../8../16..-6

Dimensions, weights								
Wilo-Multivert...	Version PN 25 round flange							
	E	H		h ₂	Ø M	X	Weight ¹⁾	
		1~230 V	3~400 V				1~230 V	3~400 V
[mm]								
MVI 202	250	507	507	321.5	150	123	19.8	19.3
MVI 203	250	544	544	321.5	150	123	20.6	20.1
MVI 204	250	571	599	355.5	170	143	28.6	28.1
MVI 205	250	594	623	379.5	170	143	28.6	28.1
MVI 206	250	618	647	403.5	170	143	31.1	30.6
MVI 207	250	653	681	427.5	170	143	31.1	30.6
MVI 208	250	707	728	461.5	190	148	38.4	37.9
MVI 210	250	755	776	509.5	190	148	39.6	39.1
MVI 212	250	—	824	557.5	190	148	—	40.6
MVI 214	250	—	872	605.5	190	148	—	42.8
MVI 217	250	—	983	687.5	213	158	—	46.2
MVI 220	250	—	1055	759.5	213	158	—	48
MVI 402	250	544	507	321.5	150	123	20.6	20.1
MVI 403	250	547	575	331.5	170	143	23.8	23.3
MVI 404	250	571	599	355.5	170	143	25.3	24.8
MVI 405	250	595	623	379.5	170	143	26.2	25.7
MVI 406	250	659	680	413.5	190	148	30.8	30.3
MVI 407	250	683	704	437.5	190	148	31.5	31
MVI 408	250	—	728	461.5	190	148	—	31.8
MVI 410	250	—	776	509.5	190	148	—	35.3
MVI 412	250	—	863	567.5	213	158	—	42.5
MVI 414	250	—	911	615.5	213	158	—	44.2
MVI 417	250	—	983	687.5	213	158	—	46.6
MVI 419	250	—	1055	759.5	240	170	—	47
MVI 802	280	549	577	334	170	143	25.1	24.6
MVI 803	280	579	607	364	170	143	27	26.5
MVI 804	280	649	670	404	190	148	32	31.5
MVI 805	280	—	700	434	190	148	—	32.3
MVI 806	280	—	730	464	190	148	—	35.5
MVI 807	280	—	799	504	213	158	—	42.1
MVI 808	280	—	829	534	213	158	—	43
MVI 810	280	—	889	594	213	158	—	44.8
MVI 811	280	—	949	654	240	170	—	46
MVI 812	280	—	979	654	240	170	—	55.5
MVI 814	280	—	1039	714	240	170	—	67.8
MVI 817	280	—	1219	823	280	194	—	74.5
MVI 819	280	—	1279	883	280	194	—	77.4

¹⁾ without packaging

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Dimensions, weights Wilo-Multivert MVI 1../2../4../8../16..-6

Dimensions, weights

Wilo-Multivert...	Version PN 25 round flange							
	E	H		h ₂	Ø M	X	Weight ¹⁾	
		1~230 V	3~400 V				1~230 V	3~400 V
[mm]								[kg]
MVI 1602-6	300	–	636	368.5	190	140	–	31
MVI 1603-6	300	–	712	443.5	190	140	–	35
MVI 1604-6	300	–	751	453.5	210	150	–	41.1
MVI 1605-6	300	–	827	528.5	210	150	–	51.3
MVI 1606-6	300	–	827	528.5	240	160	–	51.7
MVI 1607-6	300	–	933	603.5	240	160	–	53.4
MVI 1608-6	300	–	933	603.5	240	160	–	53.9
MVI 1609-6	300	–	1099	698	280	180	–	75.1
MVI 1610-6	300	–	1099	698	280	180	–	75.5
MVI 1611-6	300	–	1175	773	280	180	–	77.6

¹⁾ without packaging

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Dimensions, weights Wilo-Multivert MVI 1../2../4../8../16..-6

Dimensions, weights						
Wilo-Multivert...	Version Victaulic 3~400 V					
	E	H	h ₂	Ø M	X	Weight
			[mm]			[kg]
MVI 202	210	516.5	296.5	150	123	19
MVI 203	210	516.5	296.5	150	123	20
MVI 204	210	570.5	330.5	170	143	28
MVI 205	210	594.5	354.5	170	143	28
MVI 206	210	618.5	378.5	170	143	30
MVI 207	210	642.5	402.5	170	143	30
MVI 208	210	716.5	436.5	190	148	37.5
MVI 210	210	764.5	484.5	190	148	39
MVI 212	210	812.5	532.5	190	148	40.5
MVI 214	210	860.5	580.5	190	148	42.5
MVI 217	210	963	662.5	213	158	46
MVI 220	210	1055	734.5	213	158	48
MVI 402	210	535.5	296.5	150	123	20
MVI 403	210	546.5	306.5	170	143	23
MVI 404	210	570.5	330.5	170	143	24.5
MVI 405	210	594.5	354.5	170	143	25.5
MVI 406	210	668.5	388.5	190	148	30
MVI 407	210	692.5	412.5	190	148	31
MVI 408	210	716.5	436.5	190	148	31.5
MVI 410	210	764.5	484.5	190	148	35
MVI 412	210	862.5	542.5	213	158	42.5
MVI 414	210	910.5	590.5	213	158	44
MVI 417	210	988	662.5	213	158	46.5
MVI 419	210	1111	734.5	240	170	47
MVI 1602	261	648.5	368.5	190	140	31.4
MVI 1603	261	723.5	443.5	190	140	35.4
MVI 1604	261	773.5	453.5	210	150	41.5
MVI 1605	261	848.5	528.5	210	150	51.7
MVI 1606	261	928.5	528.5	240	160	52.1
MVI 1607	261	1004	603.5	240	160	53.8
MVI 1608	261	1004	603.5	240	160	54.2
MVI 1610	261	1098	698	280	180	75.5
MVI 1611	261	1098	698	280	180	75.9
MVI 1612	261	1173	773	280	180	78

High-Pressure Multistage Centrifugal Pumps

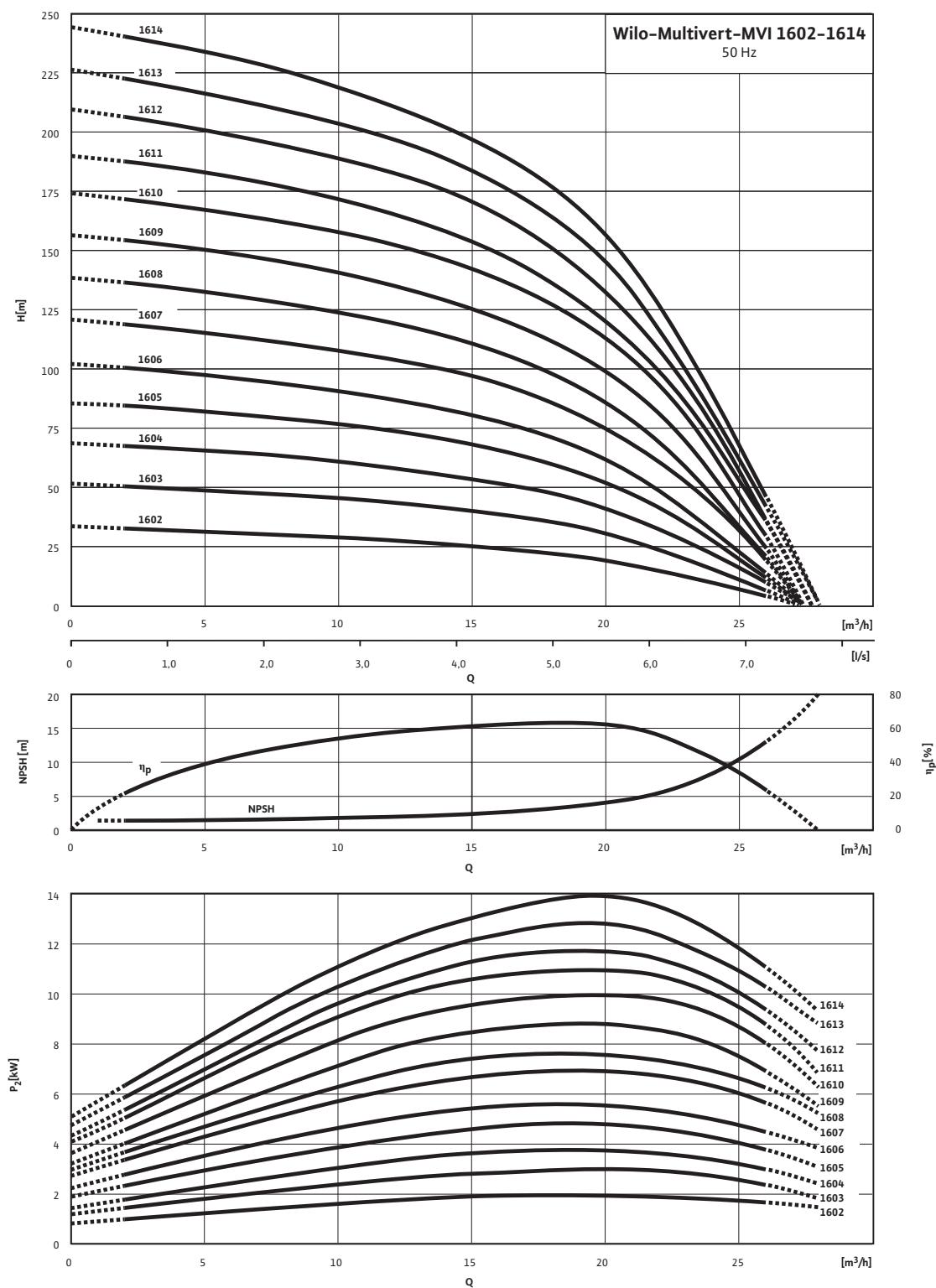
WILO

Single-head pumps

Pump curves Wilo-Multivert MVI 1602 – 1614, 3202 – 3213C, 5202 – 5212C

Wilo-Multivert MVI 1602 to MVI 1614

2-pole, 50 Hz



Pump curves in accordance with ISO 9906, class 2

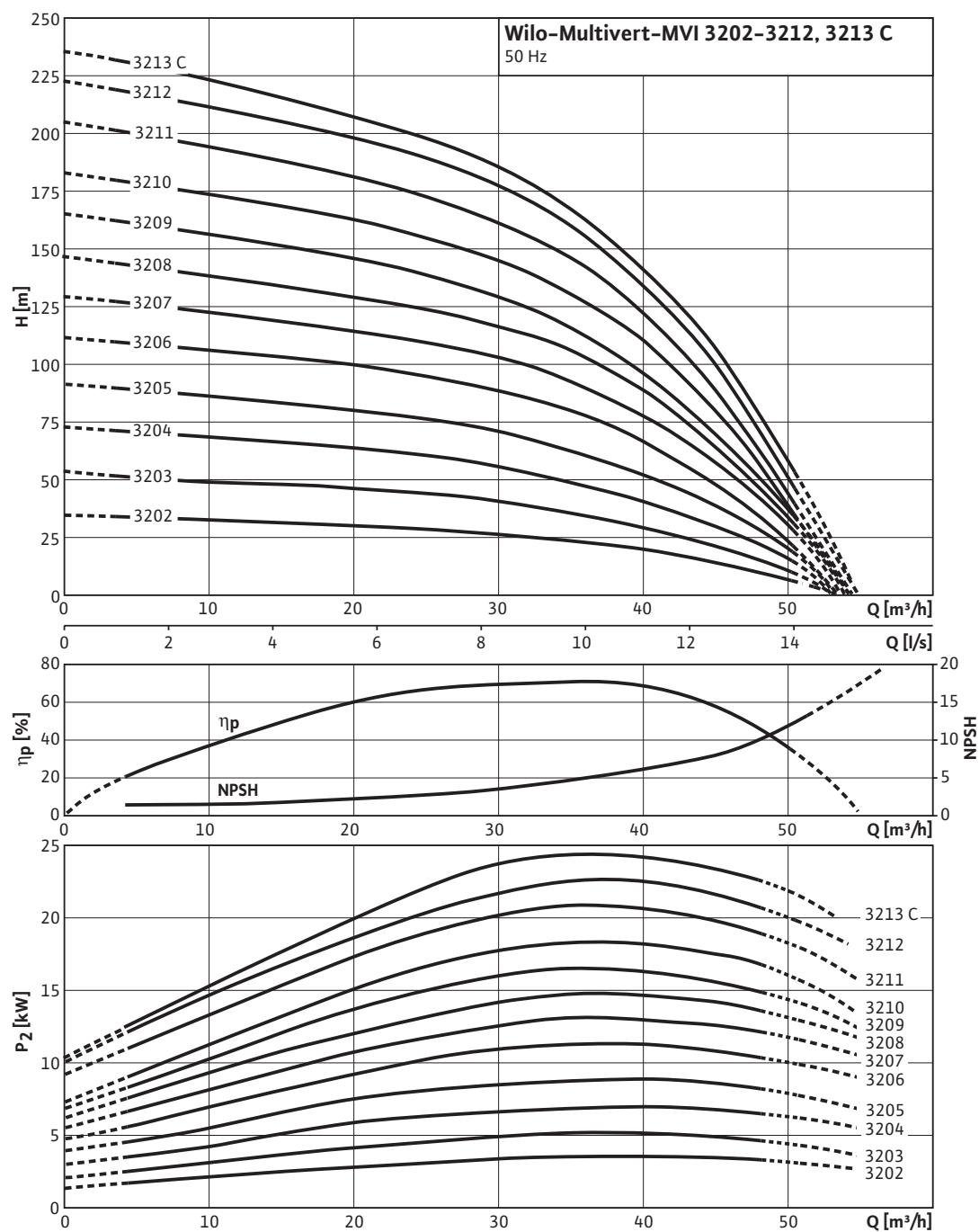
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVI 1602 – 1614, 3202 – 3213C, 5202 – 5212C

Wilo-Multivert MVI 3202 to MVI 3213 C

2-pole, 50 Hz



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

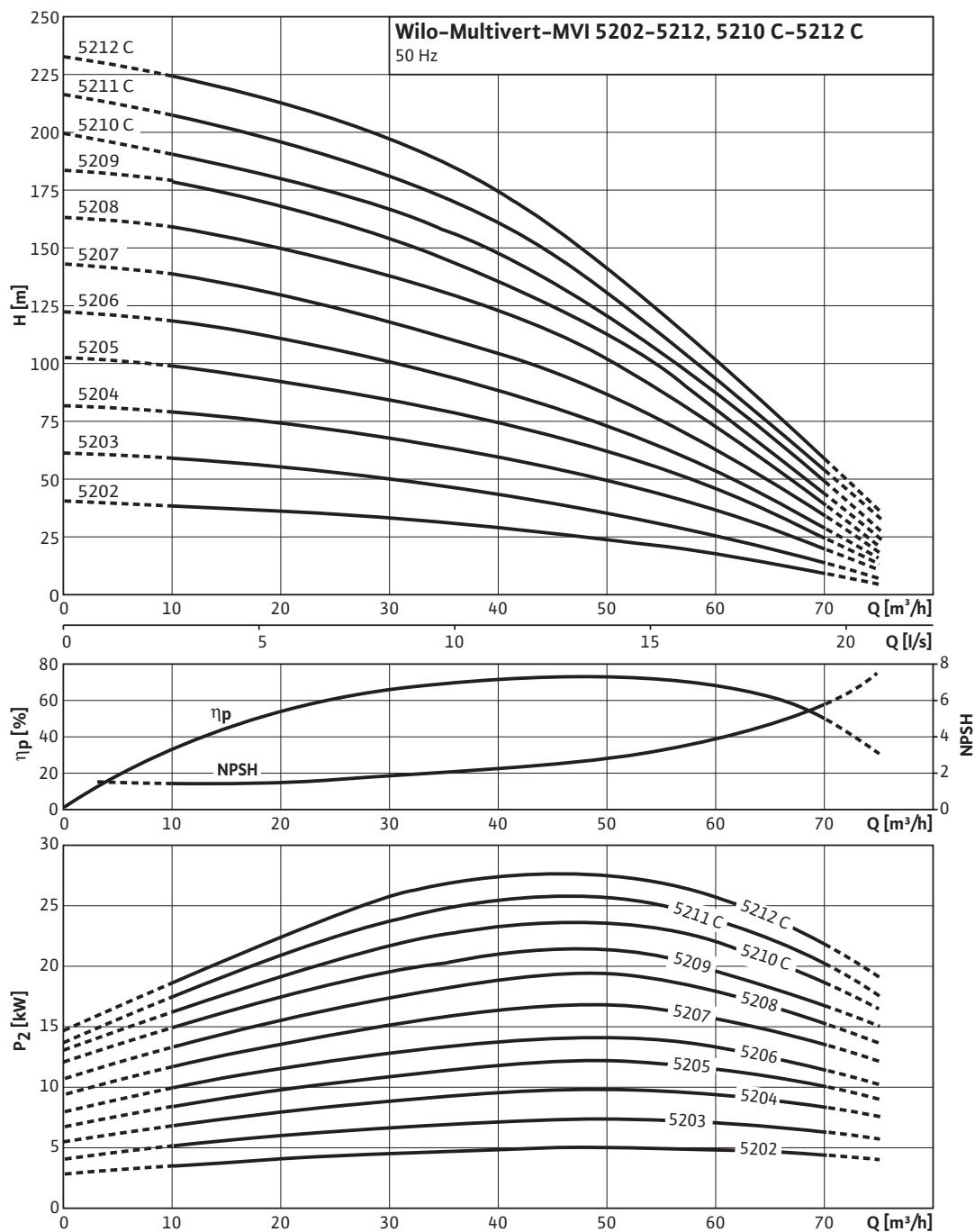
WILO

Single-head pumps

Pump curves Wilo-Multivert MVI 1602 – 1614, 3202 – 3213C, 5202 – 5212C

Wilo-Multivert MVI 5202 to MVI 5212 C

2-pole, 50 Hz



Pump curves in accordance with ISO 9906, class 2

Single-head pumps

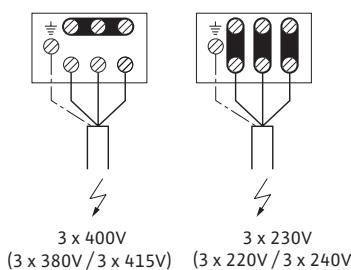
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

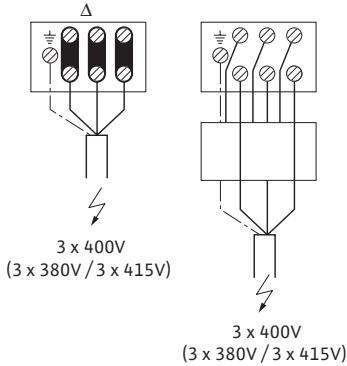
Terminal diagram, motor data Wilo-Multivert MVI 1602 – 1614, 3202 – 3213C

Terminal diagram

MOT. 230 – 400V (220 – 380V / 240 – 415V)
≤ 4kW



MOT. 400VD (380VD / 415VD)
> 4kW



Motor data

Wilo-Multivert...	Nominal power P_2 [kW]	Nominal current I_N	
		3~230 V	3~400 V
MVI 1602	2.2	7.6	4.4
MVI 1603	3.0	10.9	6.3
MVI 1604	4.0	14.5	8.4
MVI 1605	5.5	–	10.8
MVI 1606	5.5	–	10.8
MVI 1607	7.5	–	14.3
MVI 1608	7.5	–	14.3
MVI 1609	9.0	–	17.9
MVI 1610	11.0	–	21.0
MVI 1611	11.0	–	21.0
MVI 1612	15.0	–	27.8
MVI 1613	15.0	–	27.8
MVI 1614	15.0	–	27.8
MVI 3202	4.0	14.9	8.4
MVI 3203	5.5	–	10.8
MVI 3204	7.5	–	14.3
MVI 3205	9.0	–	17.9
MVI 3206	11.0	–	21.0
MVI 3207	15.0	–	27.8
MVI 3208	15.0	–	27.8
MVI 3209	18.5	–	34.0
MVI 3210	18.5	–	34.0
MVI 3211	22.0	–	40.0
MVI 3212	22.0	–	40.0
MVI 3213 C	30	–	53

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Motor data Wilo-Multivert MVI 5202 – 5212C

Wilo-Multivert...	Nominal power P_2 [kW]	Nominal current I_N	
		3~230 V	3~400 V
		[A]	[A]
MVI 5202	5.5	–	10.8
MVI 5203	7.5	–	14.3
MVI 5204	11.0	–	21.0
MVI 5205	15.0	–	27.8
MVI 5206	15.0	–	27.8
MVI 5207	18.5	–	34.0
MVI 5208	22.0	–	40.0
MVI 5209	22.0	–	40.0
MVI 5210 C	30	–	53
MVI 5211 C	30	–	53
MVI 5212 C	30	–	53

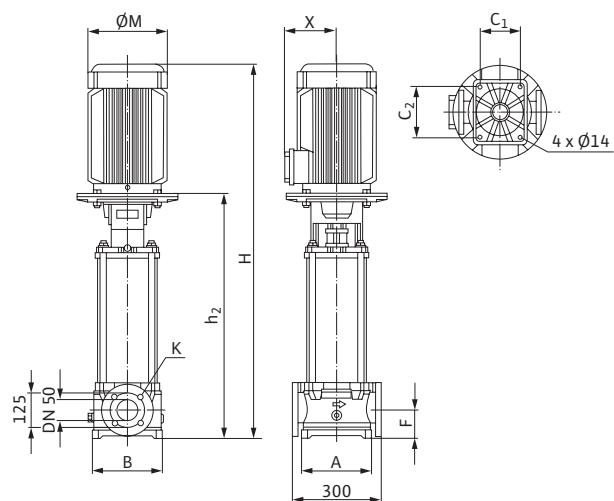
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

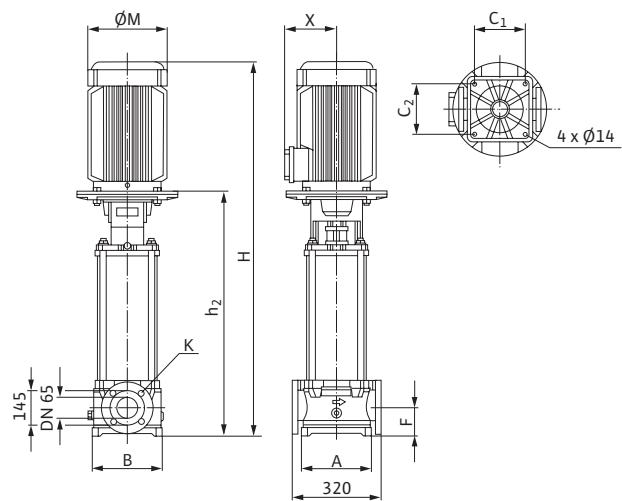
Dimensions Wilo-Multivert MVI 1602 - 1614, 3202 - 3213C, 5202 - 5212C

Dimension drawings

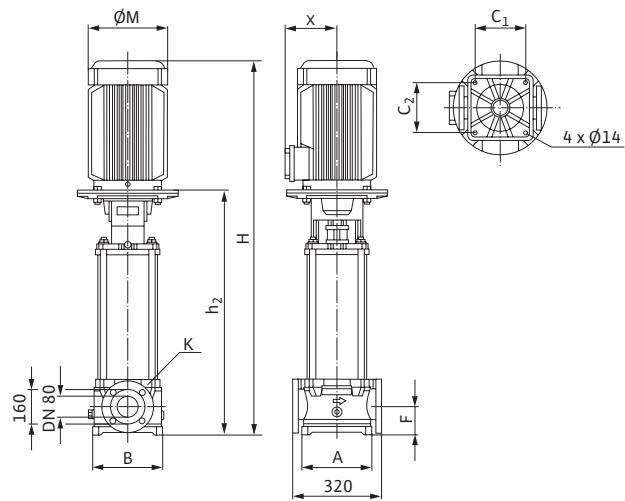
Wilo-Multivert MVI 1602 to MVI 1614



Wilo-Multivert MVI 3202 to 3213 C



Wilo-Multivert MVI 5202 C to MVI 5212 C



High-Pressure Multistage Centrifugal Pumps

Single-head pumps

WILO

Dimensions, weights Wilo-Multivert MVI 1602 – 1614, 3202 – 3213C, 5202 – 5212C

Dimensions, weights

Wilo-Multivert...	Version PN 16										
	A	B	C ₁	C ₂	F	H	h ₂	ØM	X	K	Weight
	[mm]										
MVI 1602	194	252	130	215	90	714	419	190	140	4x18	58
MVI 1603	194	252	130	215	90	749	429	215	150	4x18	65
MVI 1604	194	252	130	215	90	864	464	235	160	4x18	76
MVI 1605	194	252	130	215	90	898	498	235	160	4x18	77
MVI 1606	194	252	130	215	90	933	533	235	160	4x18	79
MVI 1607	194	252	130	215	90	1072	622	265	180	4x18	103
MVI 1608	194	252	130	215	90	1072	622	265	180	4x18	104
MVI 3202	239	235	195	195	105	840	440	235	160	4x18	80
MVI 3203	239	235	195	195	105	886	486	235	160	4x18	82
MVI 3204	239	235	195	195	105	1002	552	265	180	4x18	105
MVI 3205	239	235	195	195	105	1094	644	300	180	4x18	124
MVI 3206	239	235	195	195	105	1094	644	300	180	4x18	124
MVI 3207	239	235	195	195	105	1326	766	325	240	4x18	159
MVI 5202	260	260	220	220	105	872	472	235	160	8x18	82.5
MVI 5203	260	260	220	220	105	1004	554	265	180	8x18	105.5
MVI 5204	260	260	220	220	105	1065	615	265	180	8x18	123
MVI 5205	260	260	220	220	105	1328	767	325	240	8x18	156.5
MVI 5206	260	260	220	220	105	1328	767	325	240	8x18	157.5
MVI 5207	260	260	220	220	105	1451	891	325	240	8x18	178

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Dimensions, weights Wilo-Multivert MVI 1602 – 1614, 3202 – 3213C, 5202 – 5212C

Dimensions, weights											
Wilo-Multivert...	Version PN 25										
	A	B	C ₁	C ₂	F	H	h ₂	ØM	X	K	Weight
	[mm]										
MVI 1602	194	252	130	215	90	714	419	190	140	4x18	58
MVI 1603	194	252	130	215	90	749	429	215	135	4x18	65
MVI 1604	194	252	130	215	90	864	464	235	160	4x18	76
MVI 1605	194	252	130	215	90	898	498	235	160	4x18	77
MVI 1606	194	252	130	215	90	933	533	235	160	4x18	79
MVI 1607	194	252	130	215	90	1072	622	265	180	4x18	103
MVI 1608	194	252	130	215	90	1072	622	265	180	4x18	104
MVI 1609	194	252	130	215	90	1141	691	300	180	4x18	122
MVI 1610	194	252	130	215	90	1141	691	300	180	4x18	122
MVI 1611	194	252	130	215	90	1210	760	300	180	4x18	126
MVI 1612	194	252	130	215	90	1350	790	325	240	4x18	154
MVI 1613	194	252	130	215	90	1419	859	325	240	4x18	158
MVI 1614	194	252	130	215	90	1419	859	325	240	4x18	158
MVI 3202	262	260	220	220	120	855	455	235	160	8x18	84
MVI 3203	262	260	220	220	120	901	501	235	160	8x18	86
MVI 3204	262	260	220	220	120	1017	567	265	180	8x18	109
MVI 3205	262	260	220	220	120	1109	659	300	180	8x18	128
MVI 3206	262	260	220	220	120	1139	689	300	180	8x18	128
MVI 3207	262	260	220	220	120	1341	781	325	240	8x18	163
MVI 3208	262	260	220	220	120	1341	827	325	240	8x18	163
MVI 3209	262	260	220	220	120	1387	827	325	240	8x18	179
MVI 3210	262	260	220	220	120	1525	965	325	240	8x18	185
MVI 3211	262	260	220	220	120	1555	965	370	260	8x18	210
MVI 3212	262	260	220	220	120	1555	965	370	260	8x18	210
MVI 3213 C	262	260	220	220	120	1774	1175	415	255	8x18	276
MVI 5202	262	260	220	220	105	872	472	235	160	8x18	82.5
MVI 5203	262	260	220	220	105	1004	554	265	180	8x18	105.5
MVI 5204	262	260	220	220	105	1065	615	265	180	8x18	123
MVI 5205	262	260	220	220	105	1328	767	325	240	8x18	156.5
MVI 5206	262	260	220	220	105	1328	767	325	240	8x18	157.5
MVI 5207	262	260	220	220	105	1451	891	325	240	8x18	178
MVI 5208	262	260	220	220	105	1481	891	370	260	8x18	202
MVI 5209	262	260	220	220	105	1542	952	370	260	8x18	205
MVI 5210 C	262	260	220	220	105	1853	1254	415	255	8x18	278
MVI 5211 C	262	260	220	220	105	1853	1254	415	255	8x18	279
MVI 5212 C	262	260	220	220	105	1853	1254	415	255	8x18	280

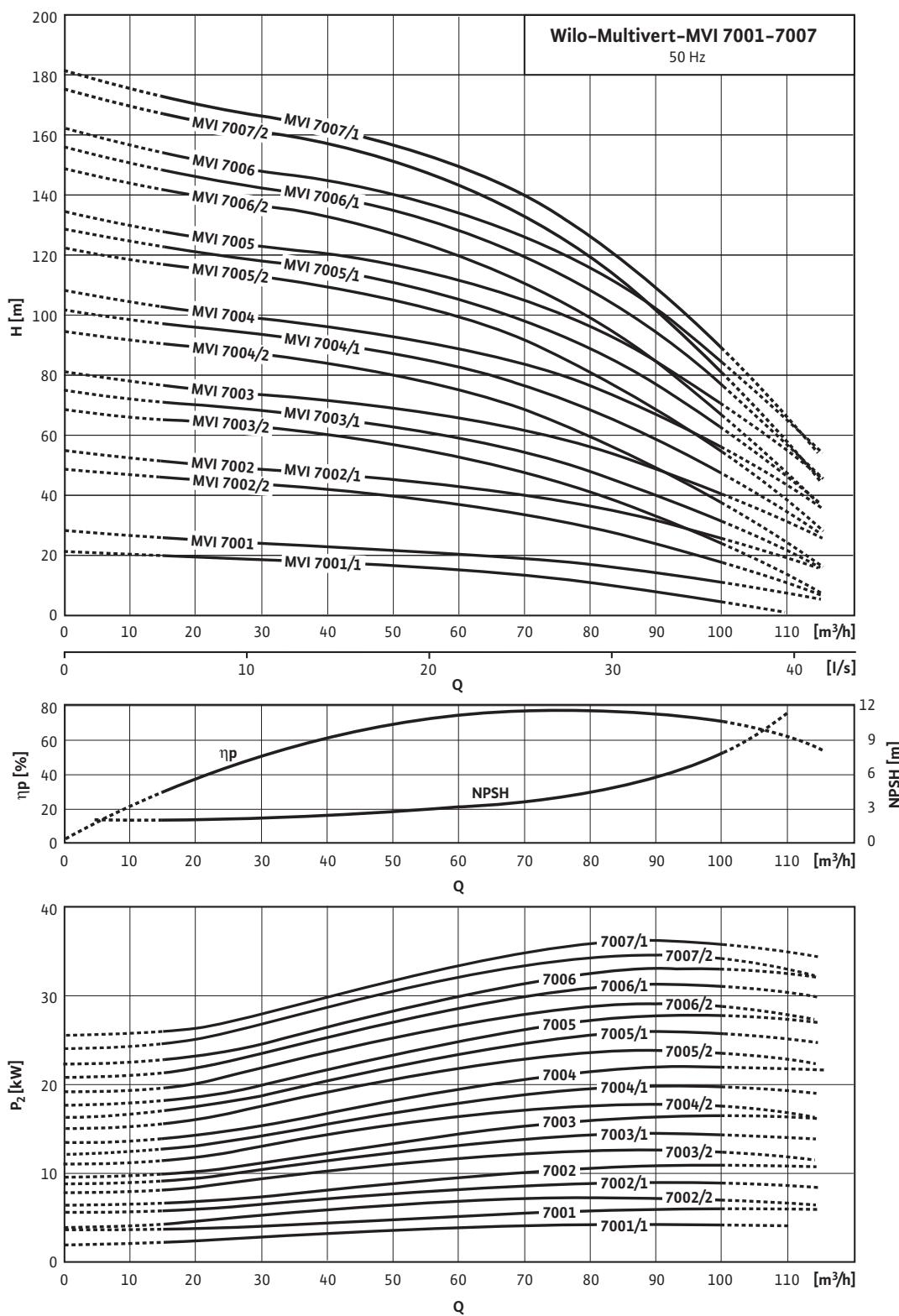
High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Pump curves Wilo-Multivert MVI 7001 to 7007

Wilo-Multivert MVI 7001 to 7007



Single-head pumps

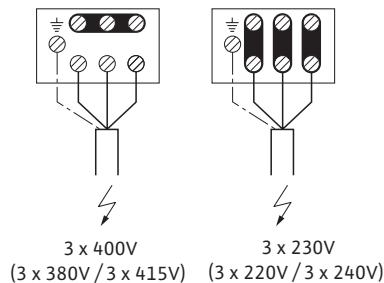
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

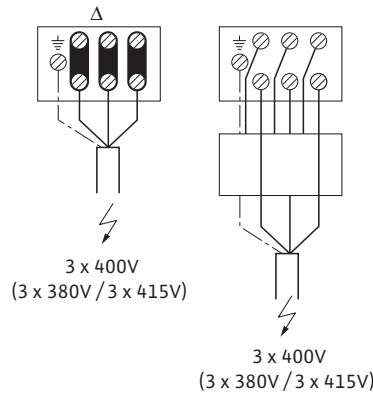
Terminal diagram, motor data Wilo-Multivert MVI 7001 – 7007

Terminal diagram

MOT. 230 – 400V (220 – 380V / 240 – 415V)
 $\leq 4\text{kW}$



MOT. 400VD (380VD / 415VD)
 $> 4\text{kW}$



Motor data

Wilo-Multivert...	Nominal power P_2 [kW]	Nominal current I_N	
		3~230 V, 50 Hz	3~400 V, 50 Hz
		[A]	[A]
MVI 7001/1	4	13.8	7.9
MVI 7001	5.5	–	10.8
MVI 7002/2	7.5	–	13.8
MVI 7002/1	9	–	17
MVI 7002	11	–	20
MVI 7003/2	15	–	26.5
MVI 7003/1	15	–	26.5
MVI 7003	18.5	–	32.2
MVI 7004/2	18.5	–	32.2
MVI 7004/1	22	–	38.1
MVI 7004	22	–	38.1
MVI 7005/2	30	–	53
MVI 7005/1	30	–	53
MVI 7005	30	–	53
MVI 7006/2	30	–	53
MVI 7006/1	37	–	64.5
MVI 7006	37	–	64.5
MVI 7007/2	37	–	64.5
MVI 7007/1	37	–	64.5

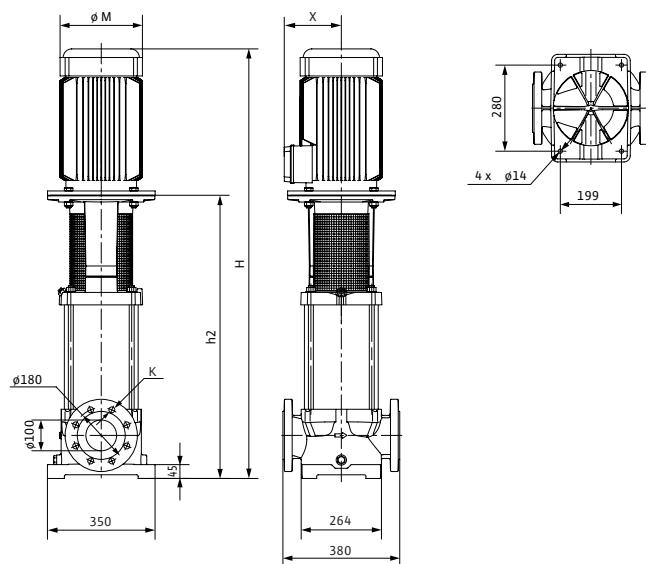
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

WILO

Dimensions, weights Wilo-Multivert MVI 7001 – 7007

Dimension drawings



Dimensions, weights

Wilo-Multivert...	Version PN 16						Version PN 25					
	H	h ₂	ØM	X	K	Weight ¹⁾	H	h ₂	ØM	X	K	Weight ¹⁾
MVI 7001/1	831	539	217	160	8 x 19	101.5	831	539	217	160	8 x 23	101.5
MVI 7001	875	539	235	168	8 x 19	105.5	875	539	235	168	8 x 23	105.5
MVI 7002/2	1005	644	279	182	8 x 19	129.5	1005	644	279	182	8 x 23	129.5
MVI 7002/1	1040	644	280	182	8 x 19	139.5	1040	644	280	182	8 x 23	139.5
MVI 7002	1040	644	280	182	8 x 19	139.5	1040	644	280	182	8 x 23	139.5
MVI 7003/2	1318	842	325	208	8 x 19	172.0	1318	842	325	208	8 x 23	172
MVI 7003/1	1318	842	325	208	8 x 19	172.0	1318	842	325	208	8 x 23	172
MVI 7003	1337	842	325	235	8 x 19	187.0	1337	842	325	235	8 x 23	187
MVI 7004/2	1422	927	325	235	8 x 19	191.0	1422	927	325	235	8 x 23	191
MVI 7004/1	1446	927	370	249	8 x 19	214.0	1446	927	370	249	8 x 23	214
MVI 7004	1446	927	370	249	8 x 19	214.0	1446	927	370	249	8 x 23	214
MVI 7005/2	1611	1012	415	255	8 x 19	265.0	1611	1012	415	255	8 x 23	265
MVI 7005/1	1611	1012	415	255	8 x 19	265.0	1611	1012	415	255	8 x 23	265
MVI 7005	1611	1012	415	255	8 x 19	265.0	1611	1012	415	255	8 x 23	265
MVI 7006/2	–	–	–	–	–	–	1696	1097	415	255	8 x 23	269
MVI 7006/1	–	–	–	–	–	–	1718	1097	415	275	8 x 23	291
MVI 7006	–	–	–	–	–	–	1718	1097	415	275	8 x 23	291
MVI 7007/2	–	–	–	–	–	–	1803	1182	415	275	8 x 23	295
MVI 7007/1	–	–	–	–	–	–	1803	1182	415	275	8 x 23	295

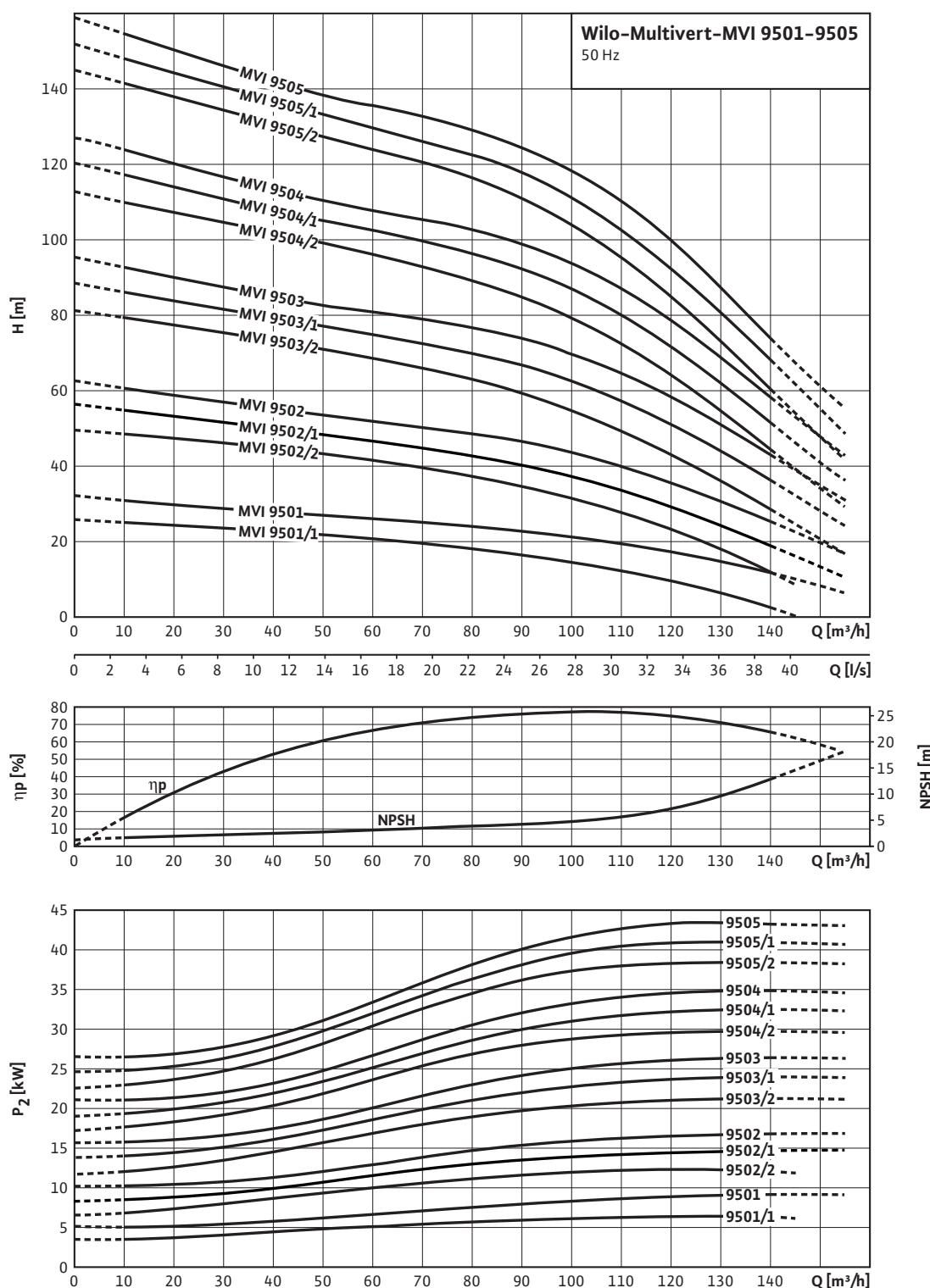
¹⁾ without packaging

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVI 9501 to 9505

Wilo-Multivert MVI 9501 to 9505



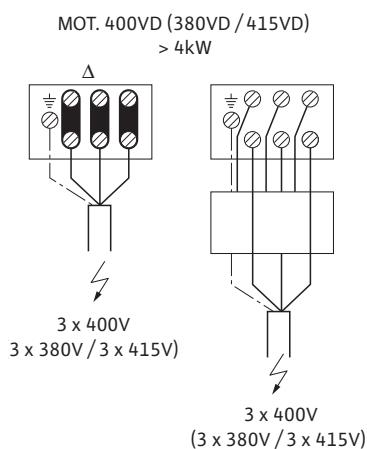
High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Terminal diagram, motor data Wilo-Multivert MVI 9501 to 9505

Terminal diagram



Motor data

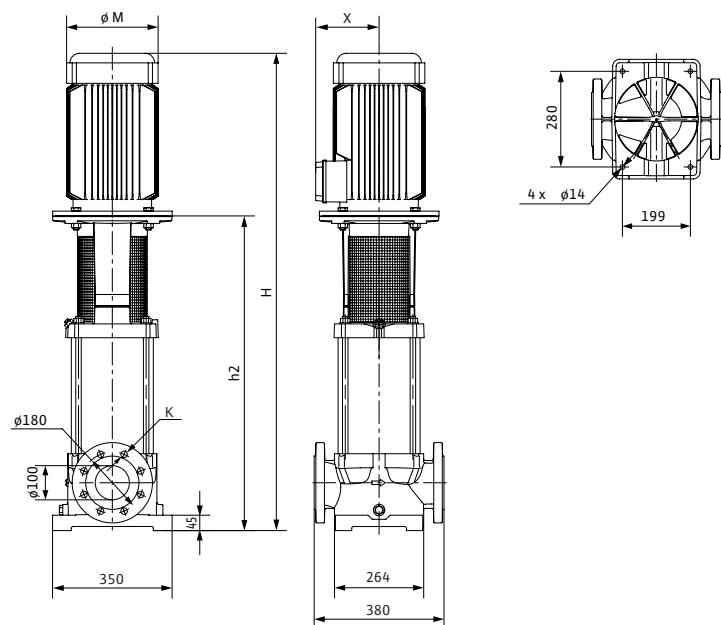
Wilo-Multivert...	Nominal power P_2 [kW]	Nominal current I_N	
		3~400 V, 50 Hz	
		[A]	[A]
MVI 9501/1	7.5	13.8	
MVI 9501	9	17	
MVI 9502/2	15	26.5	
MVI 9502/1	15	26.5	
MVI 9502	18.5	32.2	
MVI 9503/2	22	38.1	
MVI 9503/1	30	53	
MVI 9503	30	53	
MVI 9504/2	30	53	
MVI 9504/1	37	64.5	
MVI 9504	37	64.5	
MVI 9505/2	45	79	
MVI 9505/1	45	79	
MVI 9505	45	79	

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Dimensions, weights Wilo-Multivert MVI 9501 to 9505

Dimension drawing



Dimensions, weights

Wilo-Multivert...	Version PN 16						Version PN 25					
	H	h ₂	ØM	X	K	Weight	H	h ₂	ØM	X	K	Weight
	[mm]						[kg]					
MVI 9501/1	932.5	572	279	182	8 x 19	70.0	932.5	572	279	182	8 x 23	126
MVI 9501	967.5	572	280	182	8 x 19	70.0	967.5	572	280	182	8 x 23	136
MVI 9502/2	1259	783	325	208	8 x 19	94.0	1259	783	325	208	8 x 23	170
MVI 9502/1	1259	783	325	208	8 x 19	94.0	1259	783	325	208	8 x 23	170
MVI 9502	1278	783	325	235	8 x 19	94.0	1278	783	325	235	8 x 23	185
MVI 9503/2	1400	881	370	249	8 x 19	98.5	1400	881	370	249	8 x 23	212.5
MVI 9503/1	1480	881	415	255	8 x 19	101.5	1480	881	415	255	8 x 23	259.5
MVI 9503	1480	881	415	255	8 x 19	101.5	1480	881	415	255	8 x 23	259.5
MVI 9504/2	1578	979	415	255	8 x 19	106.5	1578	979	415	255	8 x 23	264.5
MVI 9504/1	1600	979	415	275	8 x 19	106.5	1600	979	415	275	8 x 23	286.5
MVI 9504	1600	979	415	275	8 x 19	106.5	1600	979	415	275	8 x 23	286.5
MVI 9505/2	—	—	—	—	—	—	1704	1077	456	275	8 x 23	321.0
MVI 9505/1	—	—	—	—	—	—	1704	1077	456	275	8 x 23	321.0
MVI 9505	—	—	—	—	—	—	1704	1077	456	275	8 x 23	321.0

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Single-head pumps

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Version overview Wilo-Multivert MVIL

Wilo-Multivert MVIL
1/3/5/9

Material

Pump base EN-GJL-250 with cataphoresis coating hydraulics in 1.4301/1.4404 (AISI 304/316L)

•

Parts that come into contact with the fluid in 1.4301 (AISI 304)

—

Parts that come into contact with the fluid in 1.4404 (AISI 316L)

—

Seal versions

EPDM

•

Viton

—

Hydraulic connection

Screw thread

—

Oval flange

•

Round flange

—

Victaulic quick coupling

—

Motor versions

Individual motors

—

1~230 V, 50 Hz

(up to $P_2 = 1.5 \text{ kW}$)

3~230 V, 50 Hz

—

3~400 V, 50 Hz

•

3~500 V, 50 Hz

—

1~110 V, 60 Hz

—

1~220 V, 60 Hz

optional

3~380 V, 60 Hz

optional

3~400 V, 60 Hz

—

3~440 V, 60 Hz

—

3~460 V, 60 Hz

—

3~480 V, 60 Hz

—

3~380 V to 440 V and 50 Hz to 60 Hz

—

IP 54

•

IP 55

—

Ex-protected motors

—

Motors with PTC thermistors

—

Motors with UL certificates

—

Motors with CSA certificates

—

Thermal motor protection

•

(only 1~230 V)

RPM-regulated by means of external frequency converter (FU)

—

Integrated frequency converter

—

• = available, — = not available

High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Version overview Wilo-Multivert MVIL

Wilo-Multivert MVIL
1/3/5/9

Paintwork

Custom paintwork	optional
------------------	----------

Mechanical seals

Tungsten carbide/carbon	optional
SiC/carbon	•
Tungsten carbide/tungsten carbide	optional
SiC/SiC	optional

Potable water authorisations

KTW	•
WRAS	•

• = available, – = not available

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Technical data Wilo-Multivert MVIL

	Wilo-Multivert MVIL...			
	1..	3..	5..	9..
Approved fluids				
Potable water, heating water, process water	•	•	•	•
Condensate	-	-	-	-
Water-glycol mixture (up to 40% vol. share of glycol/performance check required starting with 10% vol. share of glycol)	•	•	•	•
Other low-viscosity fluids (without abrasive or long-fibre constituents, insofar as they do not attack the materials used)	•	•	•	•
Performance (with 50 Hz operation)				
Maximum flow volume [m ³ /h]	3	5	8	14
Maximum delivery head [m]	112	136	134	82
Fluid temperature [°C]	-15 to +90	-15 to +90	-15 to +90	-15 to +90
Ambient temperature [°C]	40	40	40	40
Operating pressure [bar]	10	10	10/16	10/16
Intake pressure [bar]	6	6	6	6
Rated motor speed [1/min]	2900	2900	2900	2900
Motor				
Mains connection 1~ [V/Hz] (permitted voltage tolerance ± 10%)	230/50 or 220/60			
Mains connection 3~ [V/Hz] (permitted voltage tolerance ± 10%)	230/50 Δ or 220/60 Δ 400/50 Y or 380/60 Y			
Insulation class	F	F	F	F
Radio interference level	-	-	-	-
Protection class	IP 54	IP 54	IP 54	IP 54
Connections				
Nominal width pipe connections on pressure side [Rp]	1	1	1½	1½
Nominal width pipe connections on suction side [Rp]	1	1	1½	1½
Flange connections in PN16/PN25 [DN]	-	-	-	-
Victaulic connections	-	-	-	-
Materials				
Impellers	1.4301	1.4301	1.4301	1.4301
Stage chambers	1.4301	1.4301	1.4301	1.4301
Pump housing	EN-GJL-250 (KTL coated)			
Shaft	1.4404	1.4404	1.4404	1.4404
Seal	EPDM	EPDM	EPDM	EPDM

• = available, - = not available

Note on intake pressure:

Max. intake pressure is calculated by subtracting the max. delivery head of the pump when Q = 0 from the max. operating pressure of the system.

Note concerning materials:

1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

High-Pressure Multistage Centrifugal Pumps



Single-head pumps

Technical data Wilo-Multivert MVIL

	Wilo-Multivert MVIL...			
	1..	3..	5..	9..
Materials (continued)				
Housing cover	EN-GJL-250 (KTL coated)			
Housing, lower part	EN-GJL-250 (KTL coated)			
Mechanical seal	SiC/carbon	SiC/carbon	SiC/carbon	SiC/carbon
Pressure shell	-	-	-	-
Bearing	tungsten carbide	tungsten carbide	tungsten carbide	tungsten carbide
Pump base	EN-GJL-250 (KTL-coated)			
Pump base (in contact with the flow medium)	-	-	-	-

• = available, - = not available

Note on intake pressure:

Max. intake pressure is calculated by subtracting the max. delivery head of the pump when Q = 0 from the max. operating pressure of the system.

Note concerning materials:

1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

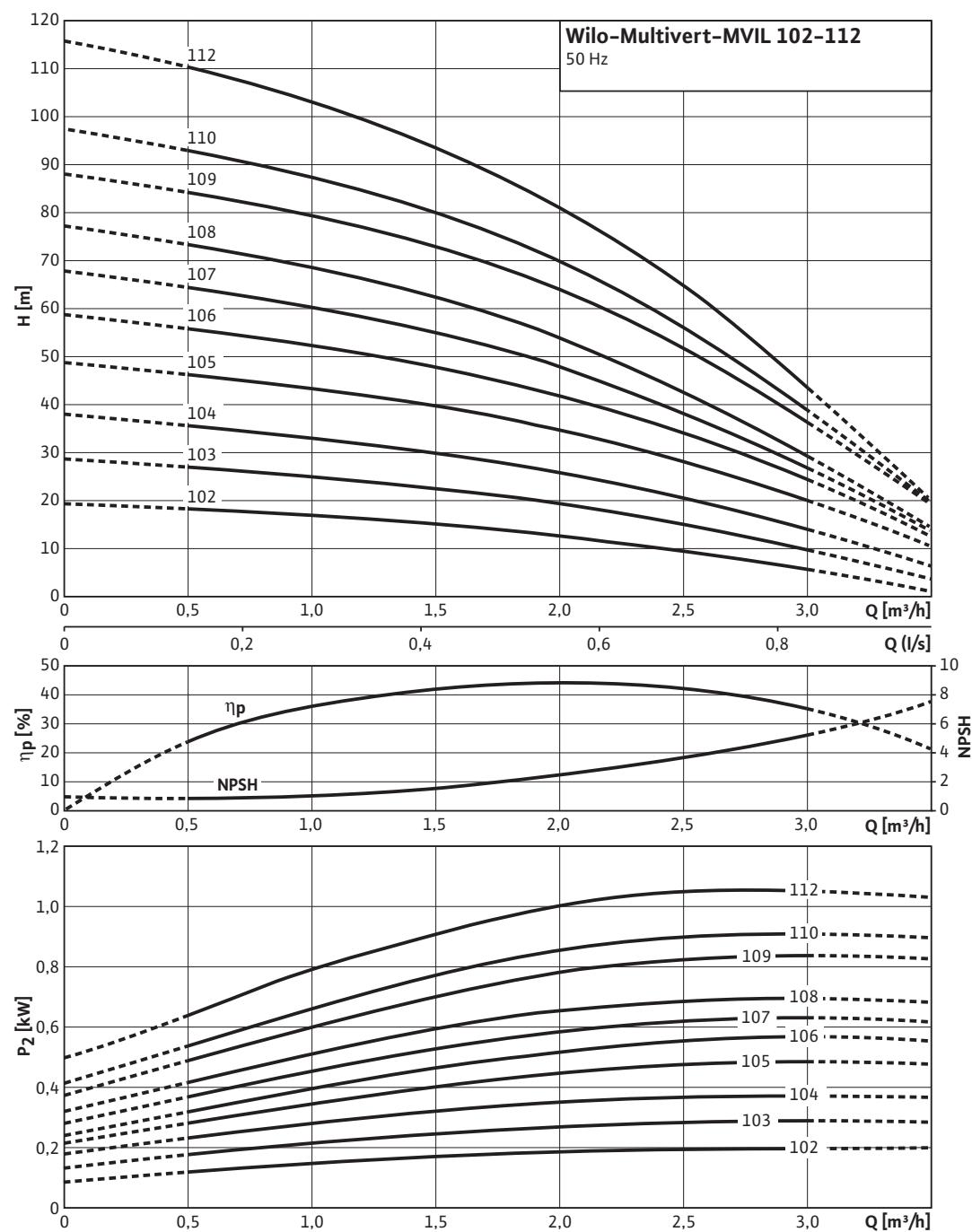
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIL

Wilo-Multivert MVIL 102 to MVIL 112

2-pole/50 Hz



High-Pressure Multistage Centrifugal Pumps

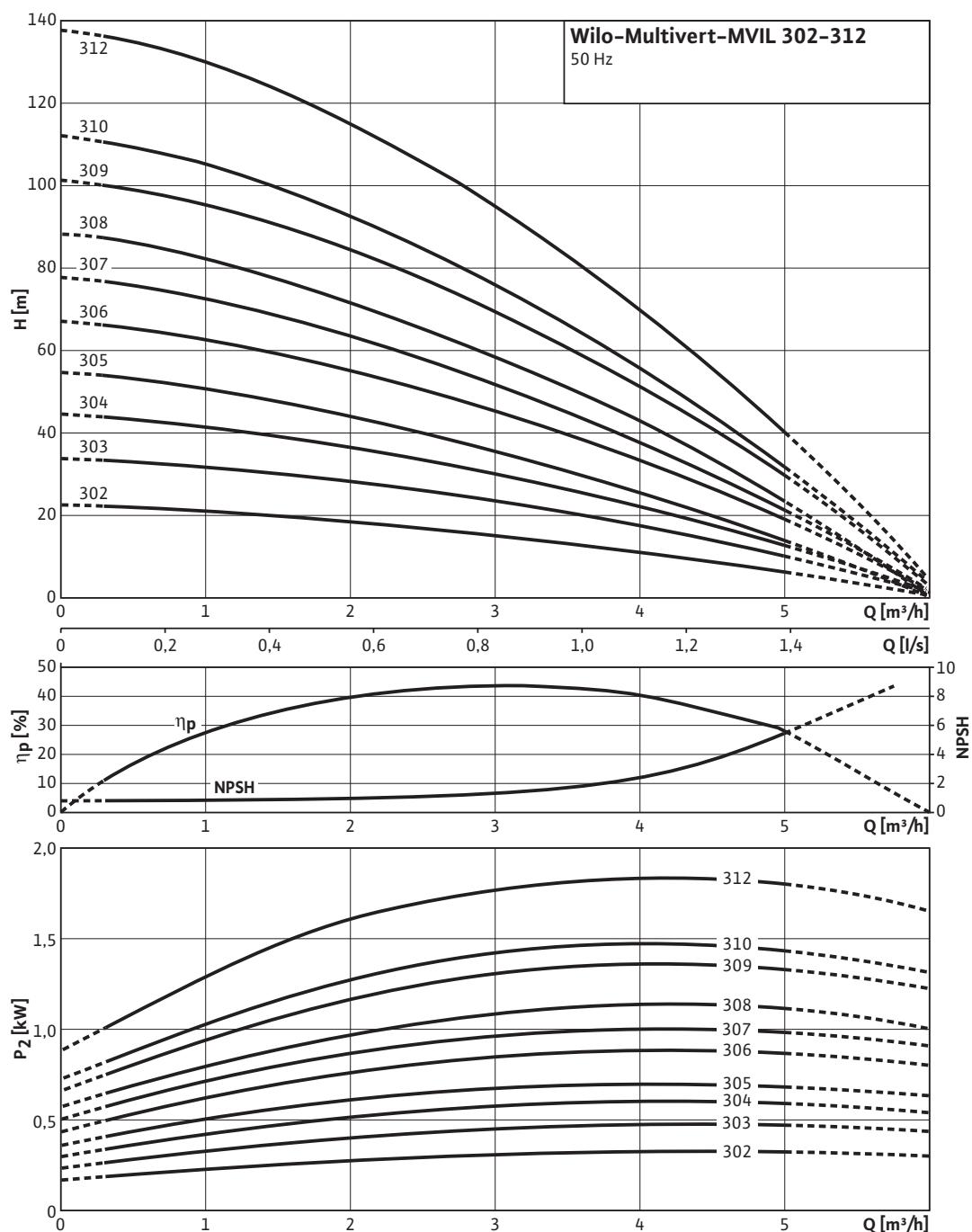
WILO

Single-head pumps

Pump curves Wilo-Multivert MVIL

Wilo-Multivert MVIL 302 to MVIL 312

2-pole/50 Hz



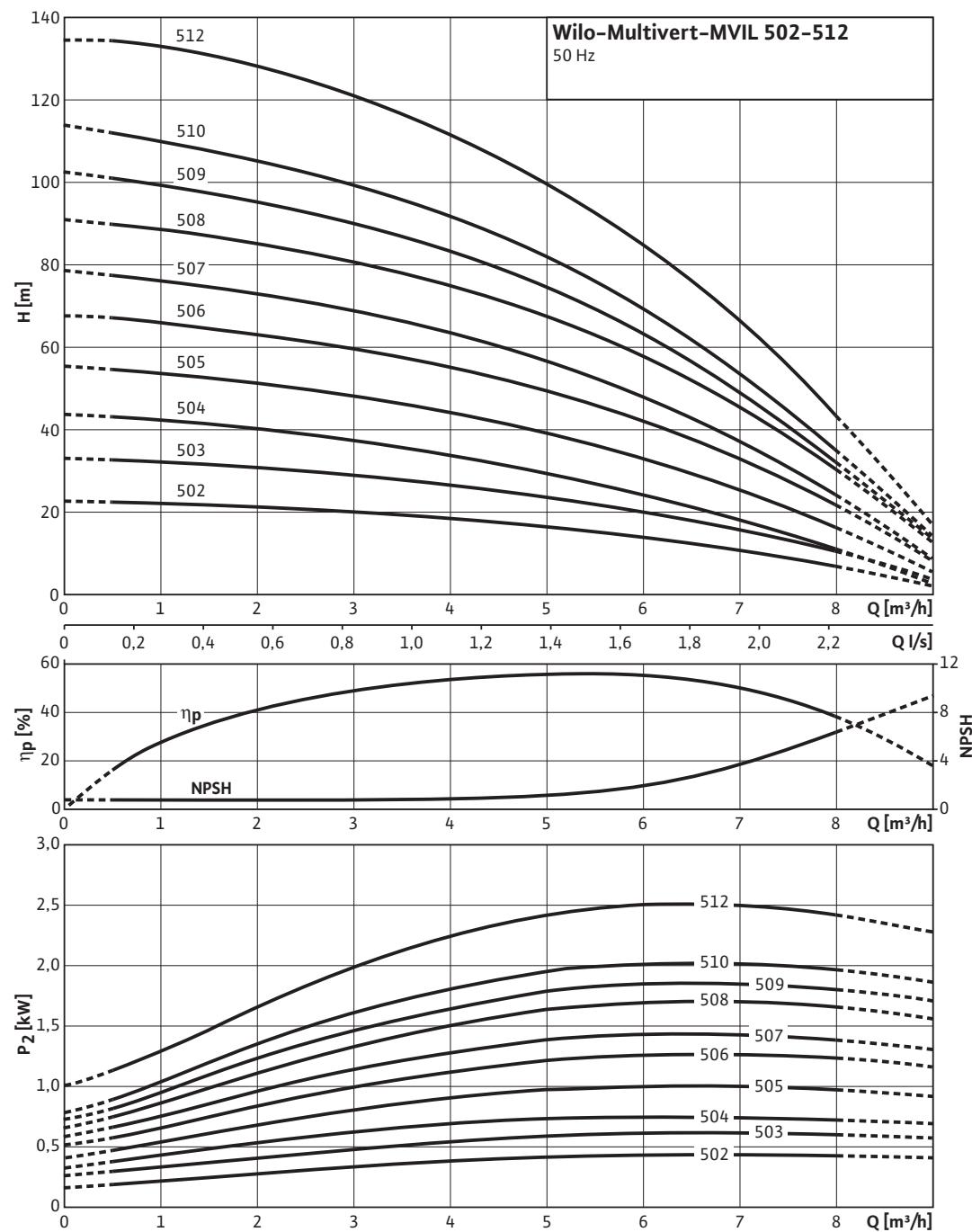
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIL

Wilo-Multivert MVIL 502 to MVIL 512

2-pole/50 Hz



High-Pressure Multistage Centrifugal Pumps

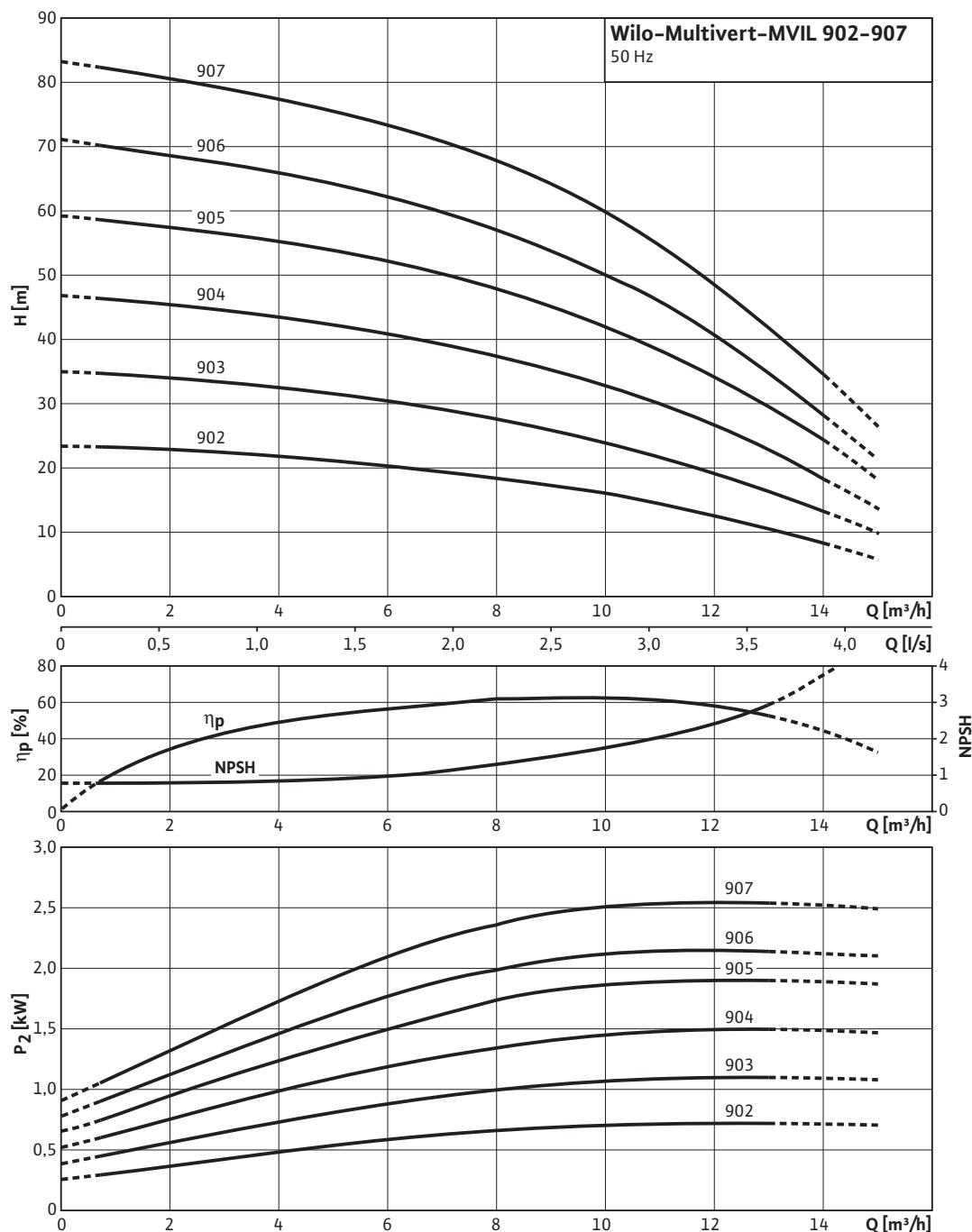
WILO

Single-head pumps

Pump curves Wilo-Multivert MVIL

Wilo-Multivert MVIL 902 to MVIL 907

2-pole/50 Hz



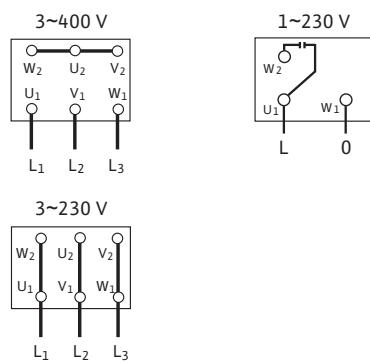
Single-head pumps

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Terminal diagram, motor data Wilo-Multivert MVIL

Terminal diagram



Motor data					
Wilo-Multivert...	Nominal power P ₂		Nominal current I _N		
	1~230 V, 50 Hz	3~400 V, 50 Hz	1~230 V, 50 Hz	3~230 V, 50 Hz	3~400 V, 50 Hz
	[kW]			[A]	
MVIL 102	0.55	0.37	4	1.7	1
MVIL 103	0.55	0.37	4	1.7	1
MVIL 104	0.55	0.37	4	1.7	1
MVIL 105	0.55	0.55	4	3.1	1.8
MVIL 106	0.55	0.55	4	3.1	1.8
MVIL 107	0.75	0.75	4.7	3.1	1.8
MVIL 108	0.75	0.75	4.7	3.1	1.8
MVIL 109	1.1	1.1	7.5	4.2	2.4
MVIL 110	1.1	1.1	7.5	4.2	2.4
MVIL 112	1.1	1.1	7.5	4.2	2.4
MVIL 302	0.55	0.37	4	1.7	1
MVIL 303	0.55	0.55	4	3.1	1.8
MVIL 304	0.75	0.75	4.7	3.1	1.8
MVIL 305	0.75	0.75	4.7	3.1	1.8
MVIL 306	1.1	1.1	7.5	4.2	2.4
MVIL 307	1.1	1.1	7.5	4.2	2.4
MVIL 308	1.5	1.5	9.6	5.6	3.3
MVIL 309	1.5	1.5	9.6	5.6	3.3
MVIL 310	1.5	1.5	9.6	5.6	3.3
MVIL 312	–	1.85	–	7	4.1
MVIL 502	0.55	0.55	4	3.1	1.8
MVIL 503	0.75	0.75	4.7	3.1	1.8
MVIL 504	1.1	1.1	7.5	4.2	2.4
MVIL 505	1.1	1.1	7.5	4.2	2.4
MVIL 506	1.5	1.5	9.6	5.6	3.3
MVIL 507	1.5	1.5	9.6	5.6	3.3
MVIL 508	–	1.85	–	7	4.1
MVIL 509	–	1.85	–	7	4.1
MVIL 510	–	2.5	–	10	5.85
MVIL 512	–	2.5	–	10	5.85

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Terminal diagram, motor data Wilo-Multivert MVIL

Motor data

Wilo-Multivert...	Nominal power P_2		Nominal current I_N		
	1~230 V, 50 Hz	3~400 V, 50 Hz	1~230 V, 50 Hz	3~230 V, 50 Hz	3~400 V, 50 Hz
	[kW]		[A]		
MVIL 902	0.75	0.75	4.7	3.1	1.8
MVIL 903	1.1	1.1	7.5	4.2	2.4
MVIL 904	1.5	1.5	9.6	5.6	3.3
MVIL 905	–	1.85	–	7	4.1
MVIL 906	–	2.5	–	10	5.85
MVIL 907	–	2.5	–	10	5.85

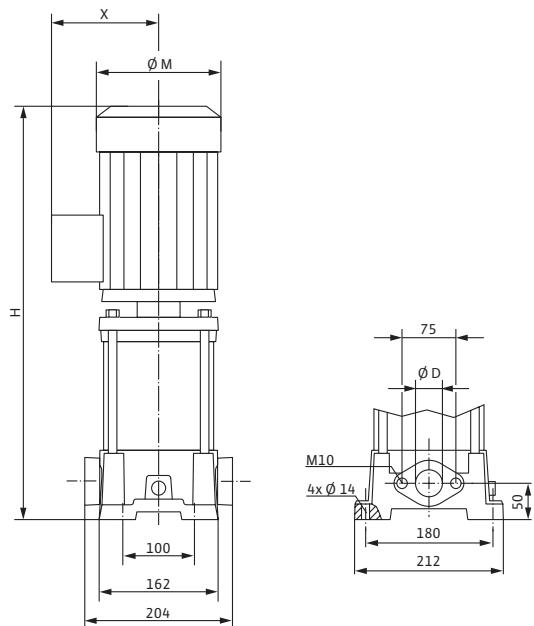
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

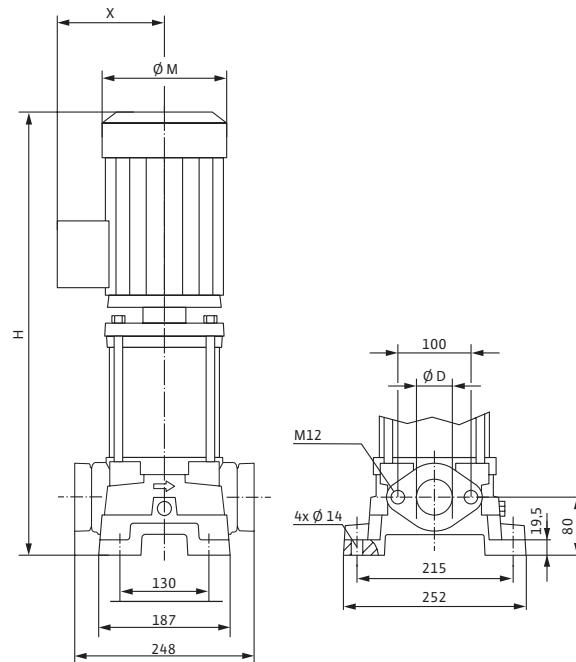
Dimensions, weights Wilo-Multivert MVIL

Dimension drawing

Wilo-Multivert MVIL 102 to MVIL 512



Wilo-Multivert MVIL 902 to MVIL 907



Dimensions, weights

Wilo-Multivert...	Ø D	H		Ø M		X		Weight	
		1~230 V	3~400 V						
		[mm]							
MVIL 102	1"	418	418	121	121	117	117	17.5	17.8
MVIL 103	1"	418	418	121	121	117	117	21.1	21.4
MVIL 104	1"	418	418	121	136	117	125	24.7	24.9
MVIL 105	1"	438	438	136	156	125	133	25.2	25.5
MVIL 106	1"	458	458	156	156	133	133	25.8	26.3
MVIL 107	1"	485	485	121	121	117	117	17.6	20.9
MVIL 108	1"	525	525	136	136	125	125	24.3	24.7
MVIL 109	1"	532	525	156	156	133	133	23.4	25.4
MVIL 110	1"	552	545	156	156	133	133	25.7	26.1
MVIL 112	1"	592	585	156	121	133	117	26.5	20.7
MVIL 302	1"	410	410	136	156	125	133	24.1	24.5
MVIL 303	1"	410	410	156	156	133	133	24.8	25.2
MVIL 304	1"	441	441	156	136	133	125	25.6	26.5
MVIL 305	1"	465	465	156	156	133	133	26.9	27.3
MVIL 306	1"	496	489	121	121	110	110	17.5	17.8
MVIL 307	1"	520	513	121	121	110	110	21.1	21.4
MVIL 308	1"	544	544	121	136	110	118	21.7	21.9

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Dimensions, weights Wilo-Multivert MVIL

Dimensions, weights

Wilo-Multivert...	Ø D	H		Ø M		X		Weight	
		1~230 V	3~400 V						
		[mm]							
MVIL 309	1"	592	592	136	136	118	118	25.2	25.5
MVIL 310	1"	592	592	136	136	118	118	22.8	23.3
MVIL 312	1"	—	640	—	121	—	110	—	17.6
MVIL 502	1 1/4"	410	410	121	136	110	118	20.9	21.3
MVIL 503	1 1/4"	417	417	136	136	118	118	24.7	23.4
MVIL 504	1 1/4"	448	441	136	156	118	126	25.4	27.3
MVIL 505	1 1/4"	472	465	156	156	126	126	26.1	26.5
MVIL 506	1 1/4"	496	496	156	121	126	110	27.2	20.7
MVIL 507	1 1/4"	520	520	136	136	118	118	21.1	24.5
MVIL 508	1 1/4"	—	544	—	136	—	118	—	24.8
MVIL 509	1 1/4"	—	592	—	156	—	126	—	26.8
MVIL 510	1 1/4"	—	639	—	156	—	126	—	27.2
MVIL 512	1 1/4"	—	687	—	156	—	126	—	26.0
MVIL 902	1 1/2"	463	463	156	193	126	148	26.3	28.3
MVIL 903	1 1/2"	470	463	193	136	148	118	29.0	26.5
MVIL 904	1 1/2"	500	500	136	156	118	126	26.9	28.9
MVIL 905	1 1/2"	—	530	—	156	—	126	—	27.8
MVIL 906	1 1/2"	—	607	—	193	—	148	—	29.8
MVIL 907	1 1/2"	—	637	—	193	—	148	—	30.2

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Version overview Wilo-Economy MHIE

Wilo-Economy MHIE
2/4/8/16

Material	
Pump base EN-GJL-250 with cataphoresis coating hydraulics in 1.4301/1.4404 (AISI 304/316L)	–
Parts that come into contact with the fluid in 1.4301 (AISI 304)	•
Parts that come into contact with the fluid in 1.4404 (AISI 316L)	• (only vers. 2../4../8..)
Seal versions	
EPDM	•
Viton	•
Hydraulic connection	
Screw thread	•
Oval flange	–
Round flange	–
Victaulic quick coupling	–
Motor versions	
Individual motors	–
1~230 V, 50 Hz	• (only vers. 2../4..)
3~230 V, 50 Hz	–
3~400 V, 50 Hz	•
3~500 V, 50 Hz	–
1~110 V, 60 Hz	–
1~220 V, 60 Hz	–
3~380 V, 60 Hz	•
3~400 V, 60 Hz	•
3~440 V, 60 Hz	•
3~460 V, 60 Hz	–
3~480 V, 60 Hz	–
3~380 V to 440 V and 50 Hz to 60 Hz	•
IP 54	•
IP 55	–
Ex-protected motors	–
Motors with PTC thermistors	•
Motors with UL certificates	–
Motors with CSA certificates	–
Thermal motor protection	–
RPM-regulated by means of external frequency converter (FU)	•
Integrated frequency converter	•

• = standard version, – = not on hand and/or not obtainable

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Version overview Wilo-Economy MHIE

Wilo-Economy MHIE
2/4/8/16

Paintwork

Custom paintwork	optional
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Mechanical seals

Tungsten carbide/carbon	•
Tungsten carbide/tungsten carbide	optional
SiC/SiC	optional

Potable water authorisations

KTW	•
WRAS	•

• = standard version, -- = not on hand and/or not obtainable

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Technical data Wilo-Economy MHIE

	Wilo-Economy MHIE...			
	2..	4..	8..	16..
Approved fluids				
Potable water, heating water, process water	•	•	•	•
Condensate	•	•	•	•
Water-glycol mixture (up to 40% vol. share of glycol/performance check required starting with 10% vol. share of glycol)	•	•	•	•
Other low-viscosity fluids (without abrasive or long-fibre constituents, insofar as they do not attack the materials used)	•	•	•	•
Performance (with 50 Hz operation)				
Maximum flow volume [m ³ /h]	8	12	18	30
Maximum delivery head [m]	80	84	55	32
Fluid temperature [°C]	-15 to +110	-15 to +110	-15 to +110	-15 to +110
Ambient temperature [°C]	40	40	40	40
Operating pressure [bar]	10	10	10	10
Intake pressure [bar]	6	6	6	6
Rated motor speed [1/min]	1500 - 3770	1500 - 3770	1500 - 3770	1500 - 3770
Motor				
Mains connection 1~ [V/Hz] (permitted voltage tolerance ± 10%)	230/50 230/60	230/50 230/60	230/50 230/60	230/50 230/60
Mains connection 3~ [V/Hz] (permitted voltage tolerance ± 10%)	400/50 Y 400/60 Y	400/50 Y 400/60 Y	400/50 Y 400/60 Y	400/50 Y 400/60 Y
Insulation class	F	F	F	F
Protection class	IP 54	IP 54	IP 54	IP 54
Emitted interference in accordance with EN 50081 T1	-	-	-	-
Emitted interference in accordance with EN 50081 T2 (EN 50081 T1 optional)	•	•	•	•
Interference resistance in accordance with EN 50082 T2	•	•	•	•
Connections				
Nominal diameter on suction side [Rp]	1	1 1/4	1 1/2	2
Nominal diameter on discharge side [Rp]	1	1	1 1/4	1 1/2
Flange connections PN16/PN25 [DN]	-	-	-	-
Victral connections	-	-	-	-

• = available, - = not available

Note on intake pressure:

Maximum intake pressure is calculated by subtracting the maximum delivery head of the pump when Q = 0 from the maximum operating pressure of the system.

Note concerning materials:

1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Technical data Wilo-Economy MHIE

	Wilo-Economy MHIE...			
	2..	4..	8..	16..
Materials				
Impellers	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404
Stage chambers	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404
Pump housing	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404
Shaft	1.4404	1.4404	1.4404	1.4404
Seals	EPDM (EP851)/Viton			
Housing cover	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404
Housing, lower part	-	-	-	-
Mechanical seal	Tungsten carbide/carbon			
Pressure shell	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404	1.4301/1.4404
Bearing	tungsten carbide	tungsten carbide	tungsten carbide	tungsten carbide
Pump base	aluminium	aluminium	aluminium	aluminium
Pump base (in contact with the flow medium)	-	-	-	-

* = available, - = not available

Note on intake pressure:

Maximum intake pressure is calculated by subtracting the maximum delivery head of the pump when $Q = 0$ from the maximum operating pressure of the system.

Note concerning materials:

1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

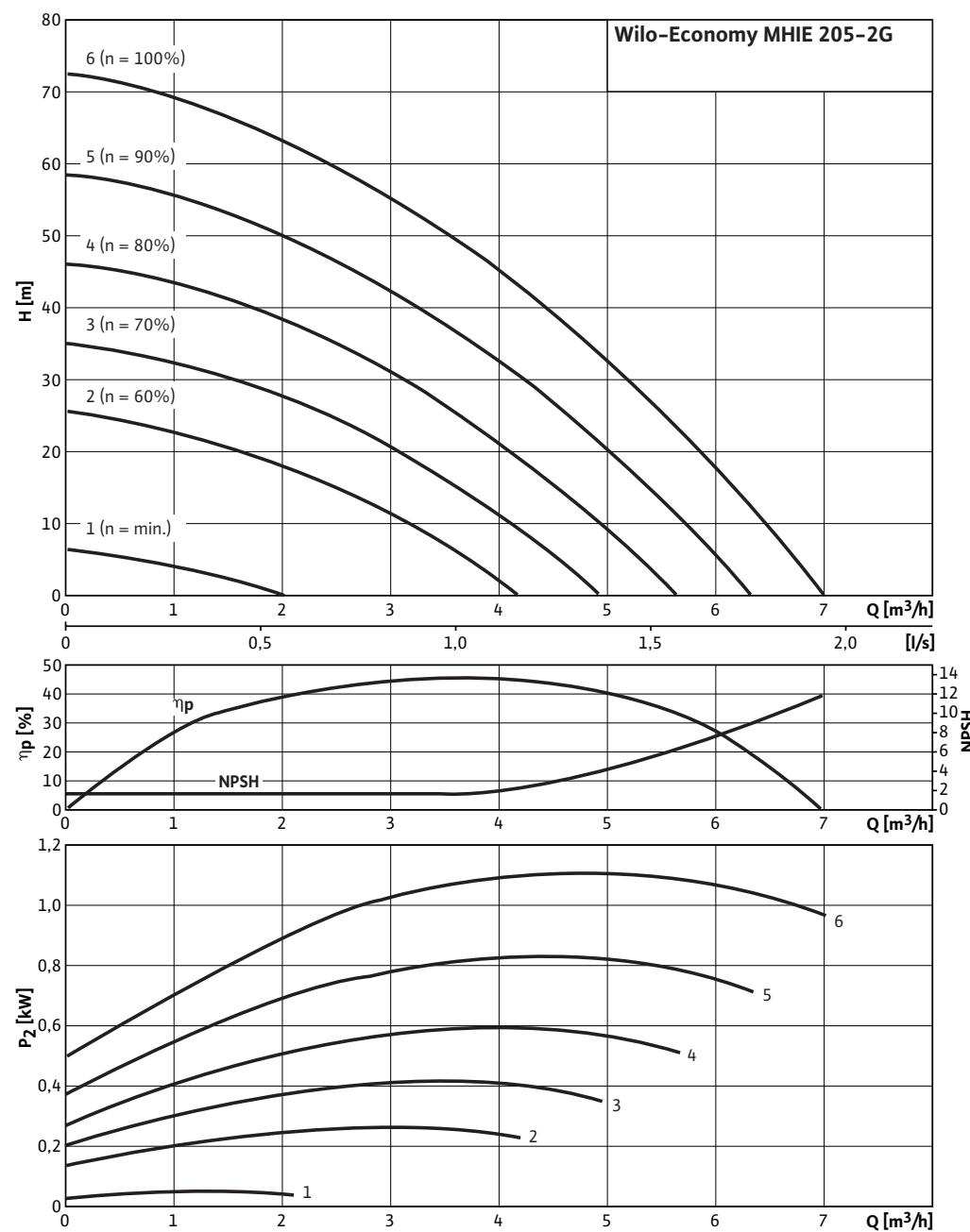
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Economy MHIE

Wilo-Economy MHIE 205-2G

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

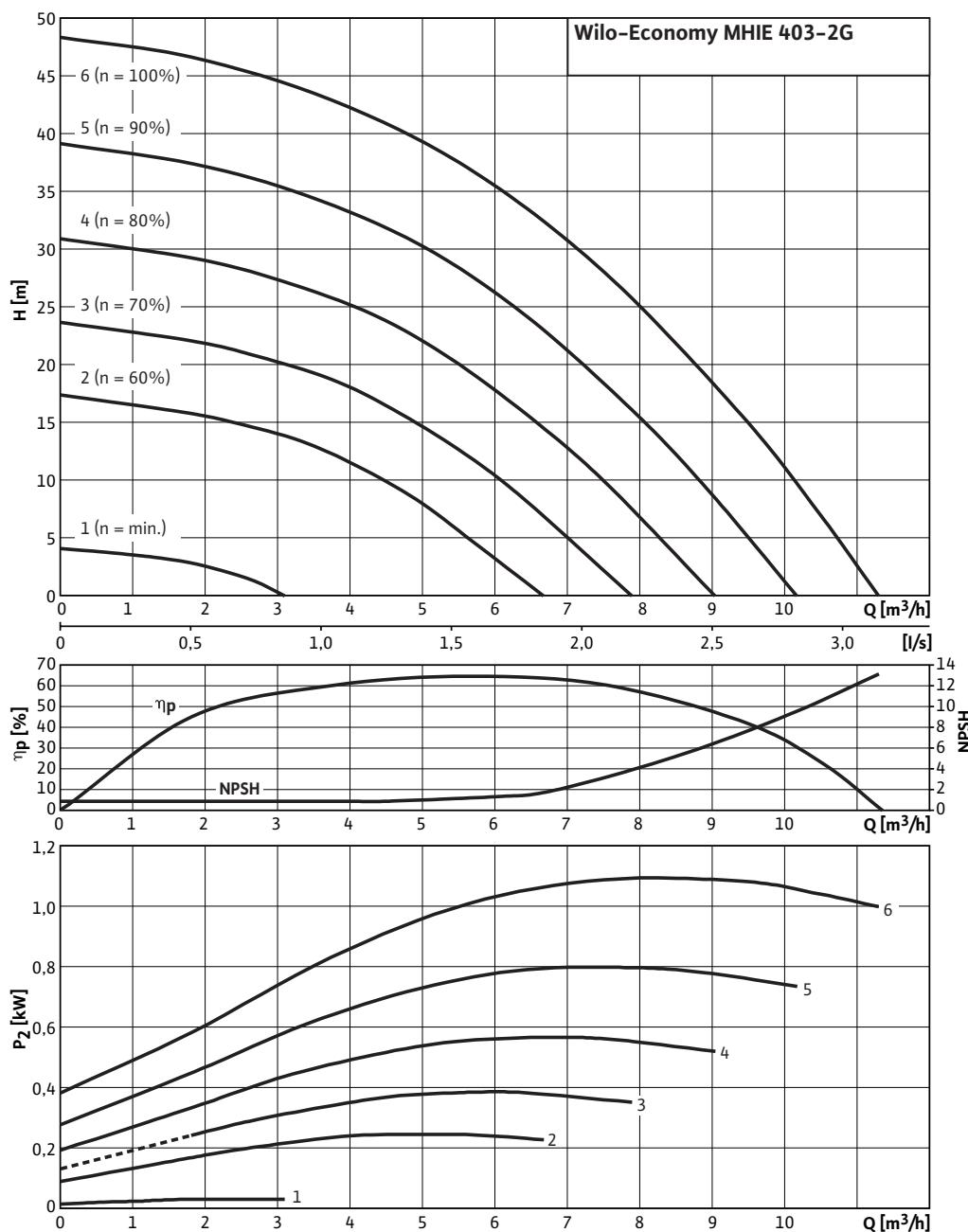
WILO

Single-head pumps

Pump curves Wilo-Economy MHIE

Wilo-Economy MHIE 403-2G

3~400 V



Pump curves in accordance with ISO 9906, class 2

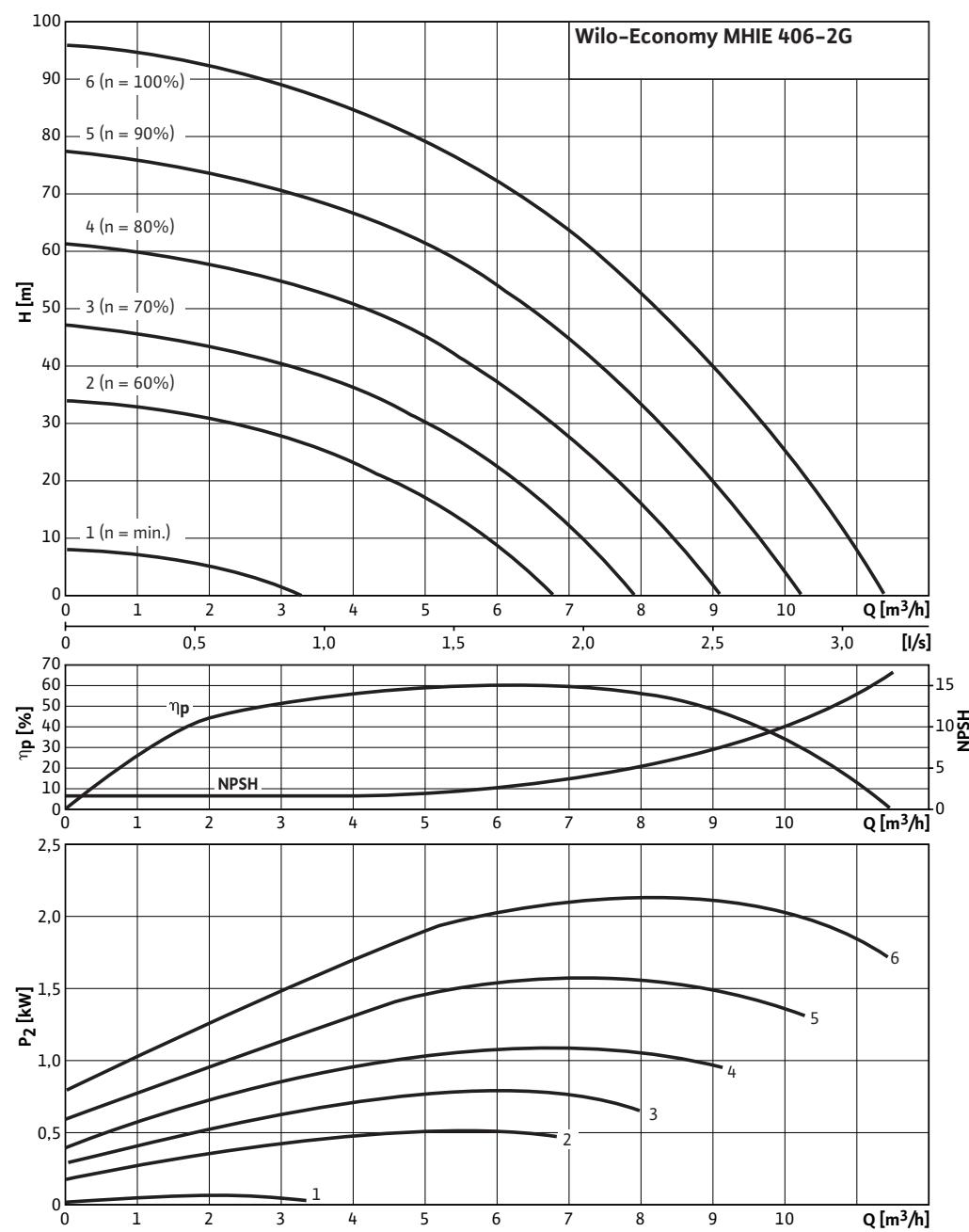
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Economy MHIE

Wilo-Economy MHIE 406-2G

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

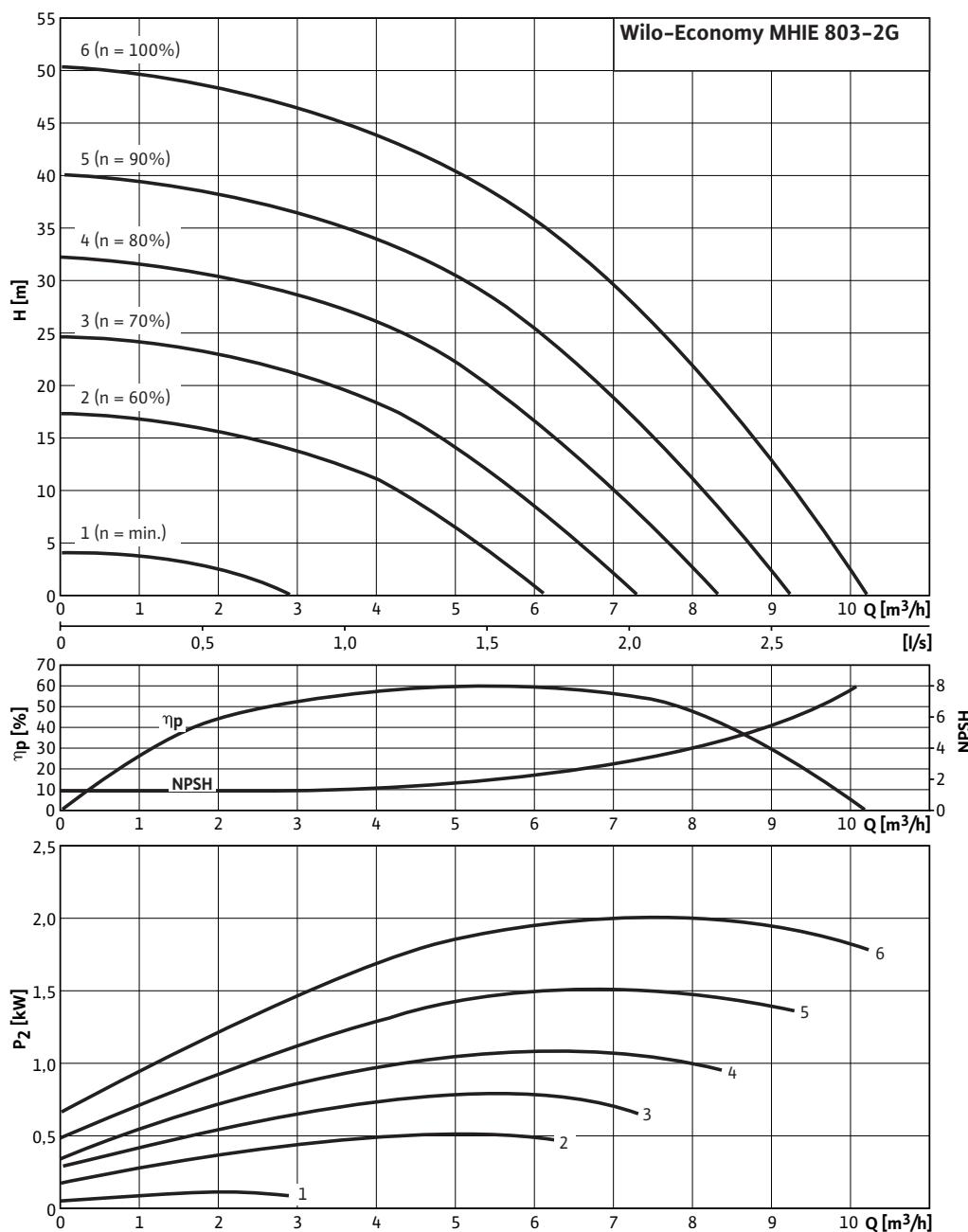
WILO

Single-head pumps

Pump curves Wilo-Economy MHIE

Wilo-Economy MHIE 803-2G

3~400 V



Pump curves in accordance with ISO 9906, class 2

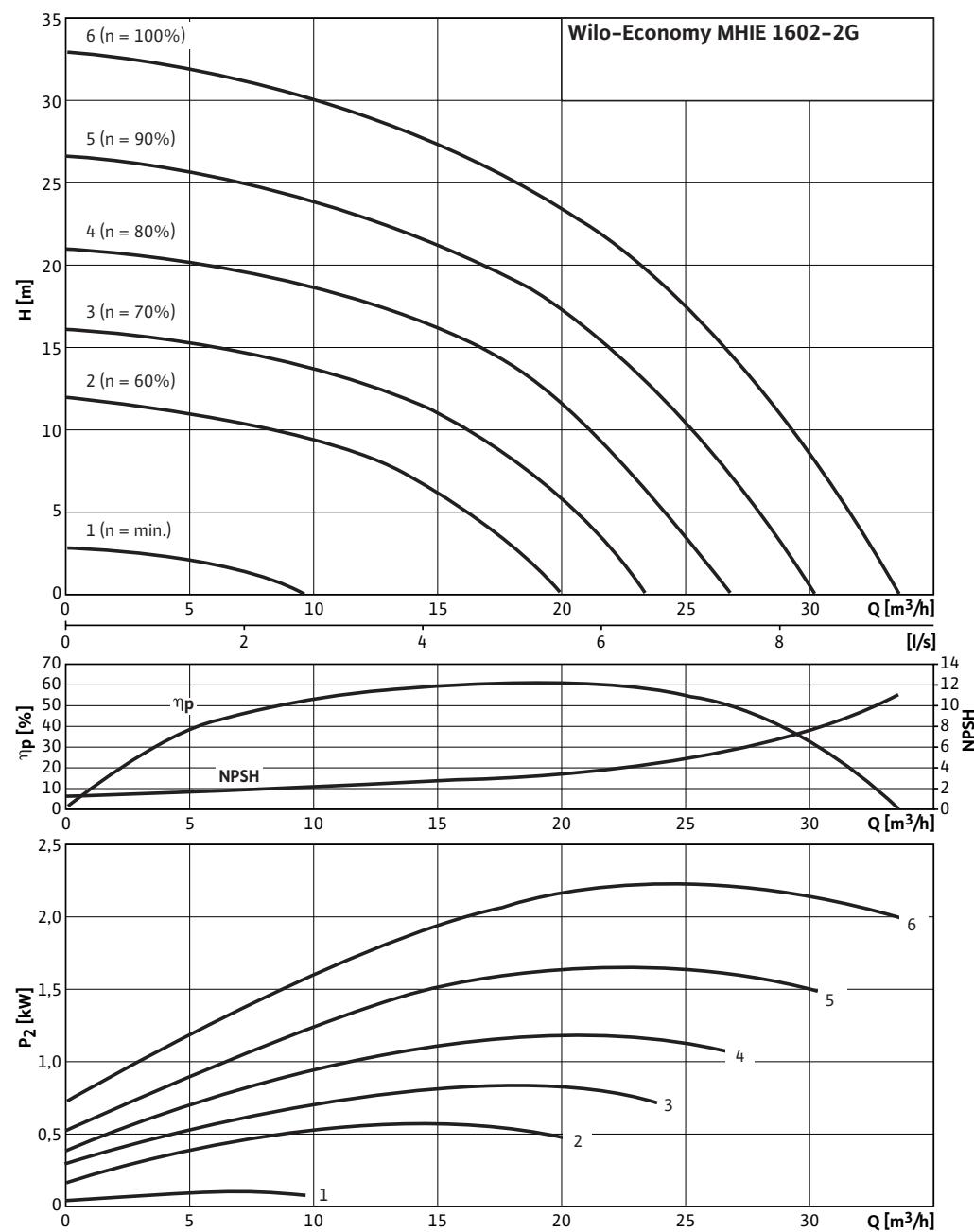
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Economy MHIE

Wilo-Economy MHIE 1602-2G

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

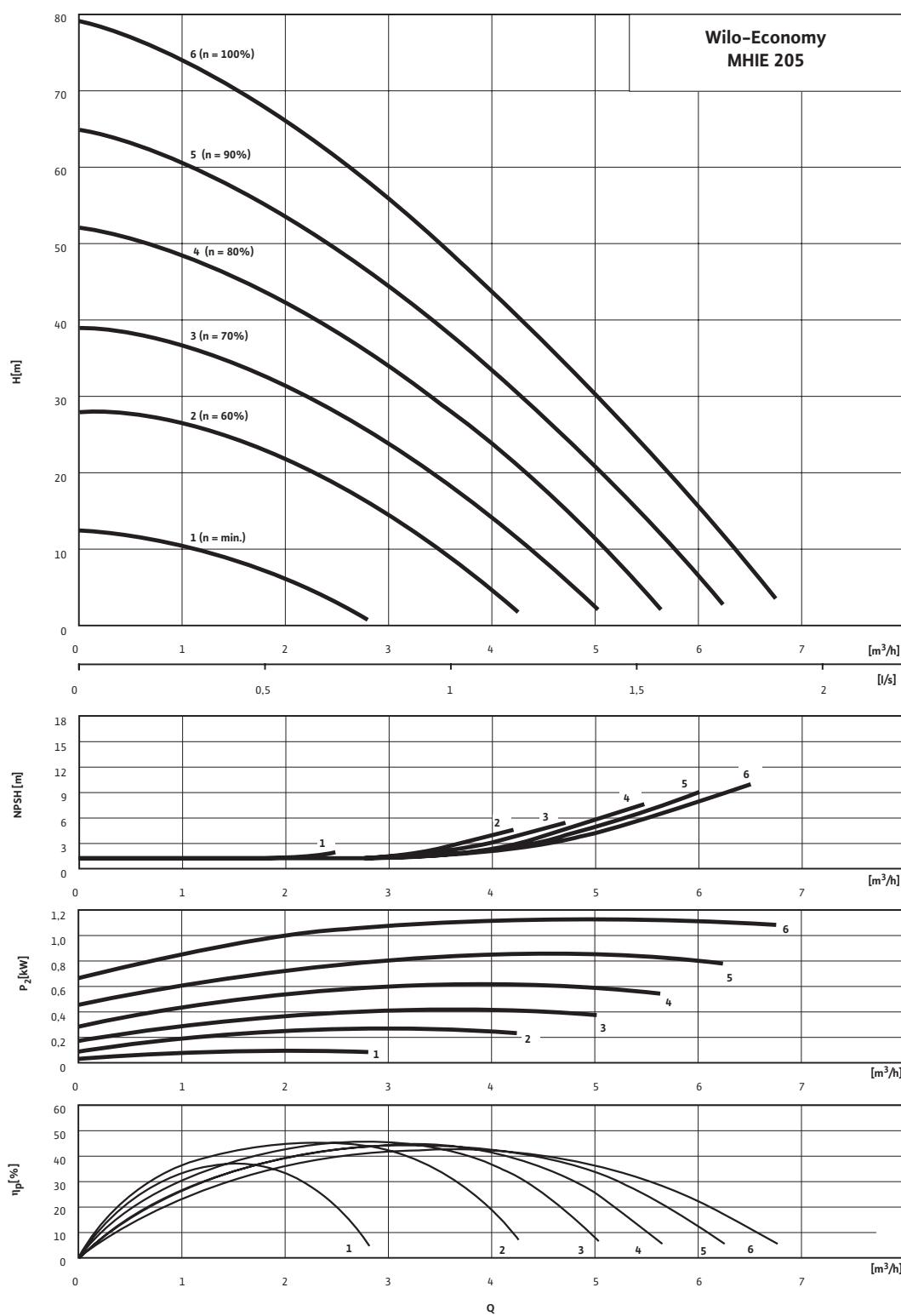
WILO

Single-head pumps

Pump curves Wilo-Economy MHIE

Wilo-Economy MHIE 205

1~230 V



Pump curves in accordance with ISO 9906, class 2

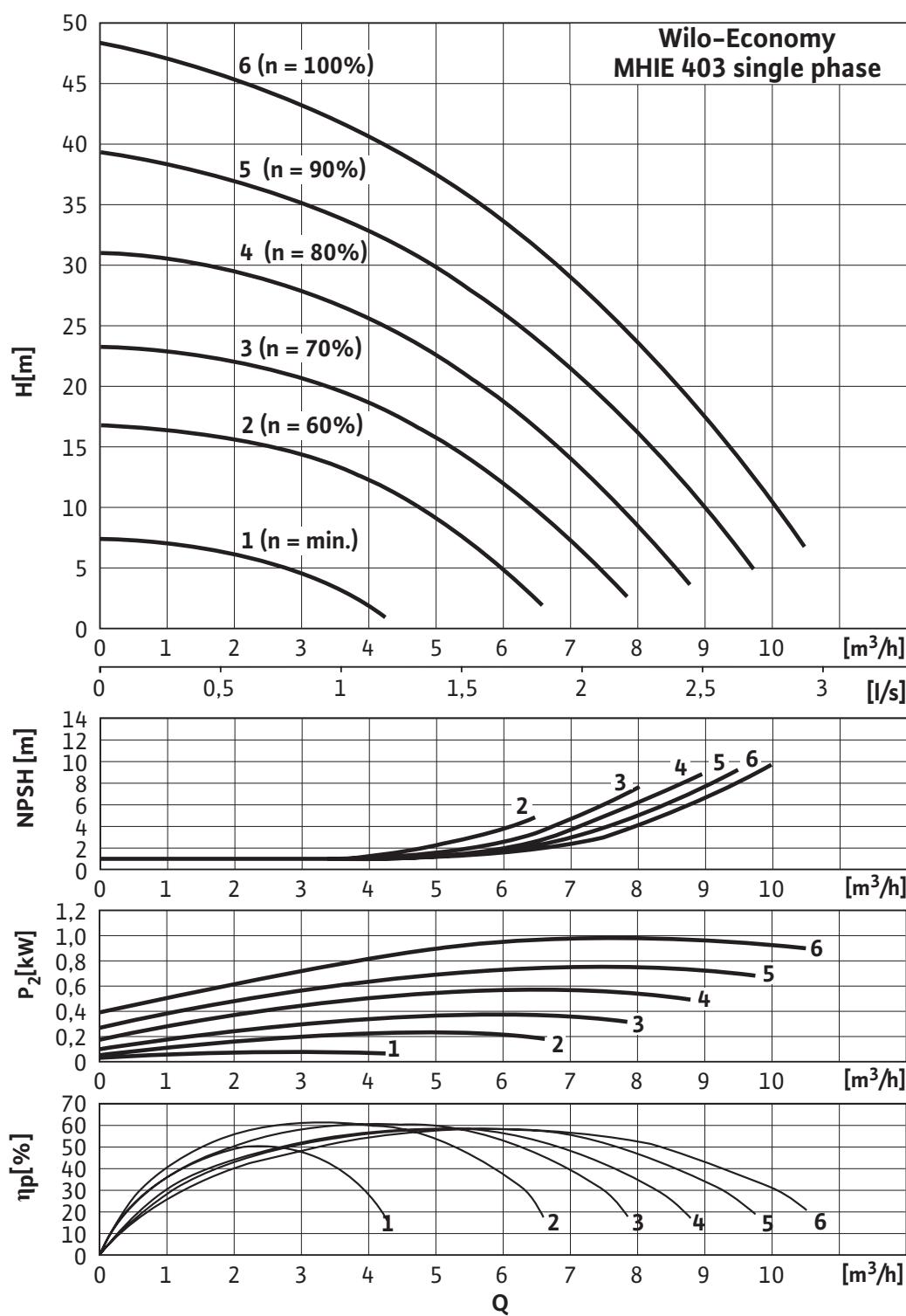
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Economy MHIE

Wilo-Economy MHIE 403

1~230 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

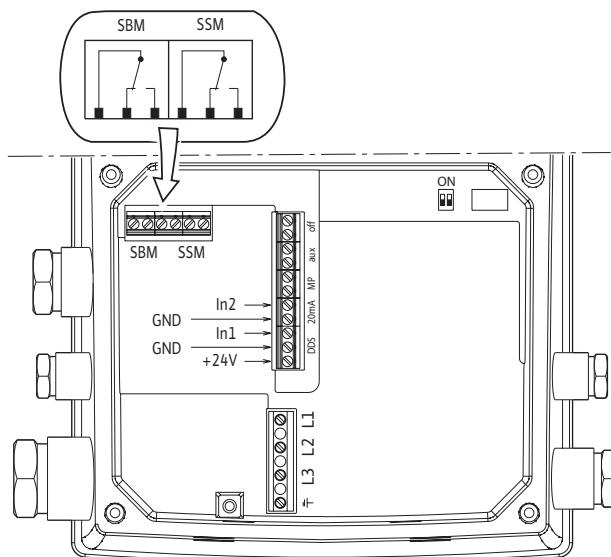
WILO

Single-head pumps

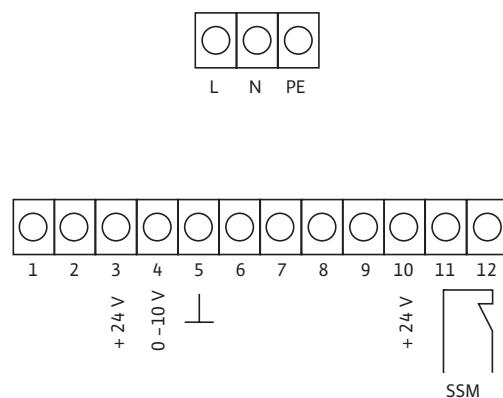
Terminal diagrams, motor data Wilo-Economy MHIE

Terminal diagrams

3~400 V



1~230 V



Motor data

Wilo-Economy...	Mains frequency [Hz]	Mains voltage [V]	Power con- sumption P_1 [kW]	Nominal power P_2	Nominal current I_N		
					Nominal current I_N		
					1~230 V	3~380 V	3~400 V
MHIE 205-2G	50 and 60	3~380/400	1.51	1.1	–	3.2	4.0
MHIE 403-2G	50 and 60	3~380/400	1.38	1.1	–	2.9	4.1
MHIE 406-2G	50 and 60	3~380/400	2.60	2.2	–	5.3	6.6
MHIE 803-2G	50 and 60	3~380/400	2.60	2.2	–	4.6	6.0
MHIE 1602-2G	50 and 60	3~380/400	2.84	2.2	–	5.4	6.2
MHIE 205	50 and 60	1~230	1.77	1.1	10.5	–	–
MHIE 403	50 and 60	1~230	1.77	1.1	10.5	–	–

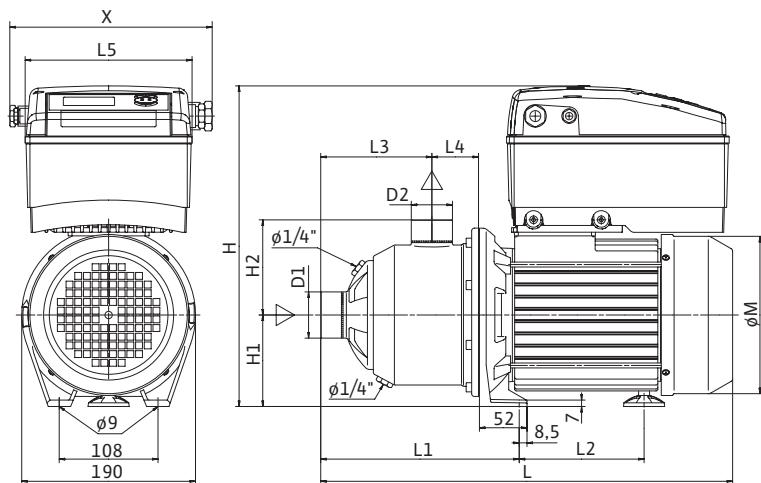
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

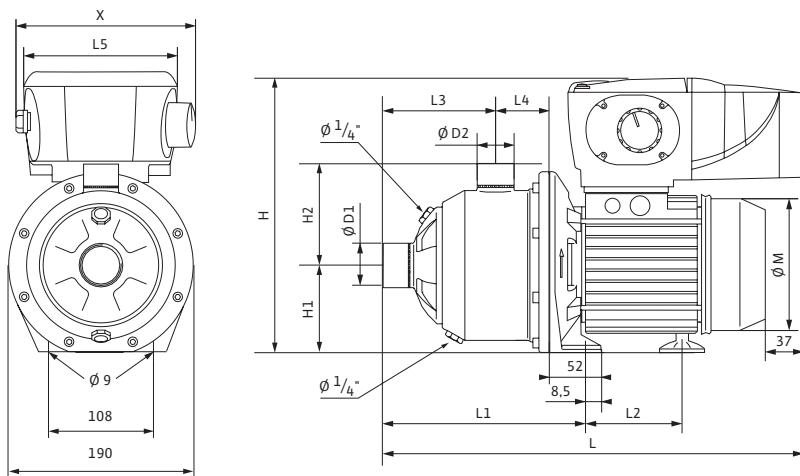
Dimensions, weights Wilo-Economy MHIE

Dimension drawing

Wilo-Economy MHIE-2G



Wilo-Economy MHIE 205, MHIE 403



Dimensions, weights

Wilo-Economy...	L	L1	L2	L3	L4	L5	X	D1	D2	H	H1	H2	Ø M	Weight
	[mm]										[mm]			[kg]
MHIE 205-2G	448.0	252.0	103.5	157.5	51	158	198	Rp 1	Rp 1	317	90	104	154	14.6
MHIE 403-2G	400.0	204.0	103.5	109.5	51	158	198	Rp 1½	Rp 1	317	90	104	154	14.6
MHIE 406-2G	511.0	276.0	136.5	181.5	51	182	222	Rp 1¼	Rp 1	344	100	104	172	21.5
MHIE 803-2G	451.0	216.0	136.5	121.5	51	182	222	Rp 1½	Rp 1¼	344	100	104	172	19.7
MHIE 1602-2G	470.5	235.5	136.5	138.0	54	182	222	Rp 2	Rp 1½	344	100	105	172	19.3
MHIE 205	460.0	252.0	87.5	157.5	51	150	180	Rp 1	Rp 1	284	90	104	180	17.2
MHIE 403	412.0	204.0	87.5	109.5	51	150	180	Rp 1¼	Rp 1	284	90	104	180	15.7

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Single-head pumps

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Version overview Wilo-Multivert MVISE-2G

	Wilo-Multivert MVISE-2G
Material	
Pump base EN-GJL-250 with cataphoresis coating, hydraulics in 1.4301 (AISI 304)	•
Parts that come into contact with the fluid in 1.4301 (AISI 304)	•
Seal versions	
EPDM	•
Viton	•
Hydraulic connection	
Screw thread	—
Oval flange	•
Round flange	—
Victaulic quick coupling	•
Motor versions	
Individual motors	—
1~230 V, 50 Hz	—
3~230 V, 50 Hz	—
3~400 V, 50 Hz	•
3~500 V, 50 Hz	—
1~110 V, 60 Hz	—
1~220 V, 60 Hz	—
3~380 V, 60 Hz	—
3~400 V, 60 Hz	—
3~440 V, 60 Hz	—
3~460 V, 60 Hz	—
3~480 V, 60 Hz	—
3~380 V to 440 V and 50 Hz to 60 Hz	—
IP 44	•
IP 54	—
IP 55	—
Ex-protected motors	—
Motors with PTC thermistors	optional
Motors with UL certificates	optional
Motors with CSA certificates	optional
Thermal motor protection	—
RPM-regulated by means of external frequency converter (FU)	—
Integrated frequency converter	•

• = standard version, — = not on hand and/or not obtainable

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Version overview Wilo-Multivert MVISE-2G

Wilo-Multivert MVISE-2G	
Paintwork	
Custom paintwork	optional
Potable water authorisations	
KTW	•
WRAS	–

• = standard version, – = not on hand and/or not obtainable

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Technical data Wilo-Multivert MVISE-2G

	Wilo-Multivert MVISE...-2G		
	2..	4..	8..
Approved fluids			
Potable water, heating water, process water	•	•	•
Condensate	–	–	–
Water-glycol mixture (up to 40% vol. share of glycol/performance check required starting with 10% vol. share of glycol)	•	•	•
Other low-viscosity fluids (without abrasive or long-fibre constituents, insofar as they do not attack the materials used)	–	–	–
Performance (with 50 Hz operation)			
Maximum flow volume [m ³ /h]	6	8	15
Maximum delivery head [m]	112	108	70
Fluid temperature [°C]	-10 to +50	-10 to +50	-10 to +50
Ambient temperature [°C]	40	40	40
Operating pressure [bar]	16	16	16
Intake pressure [bar]	6	6	6
Rated motor speed [1/min]	1100 – 2750	1100 – 2750	1100 – 2750
Motor			
Mains connection 1~ [V/Hz] (permitted voltage tolerance ± 10%)	–	–	–
Mains connection 3~ [V/Hz] (permitted voltage tolerance ± 10%)	400/50 Y 400/60 Y	400/50 Y 400/60 Y	400/50 Y 400/60 Y
Insulation class	F	F	F
Protection class	IP 44	IP 44	IP 44
Emitted interference in accordance with EN 50081 T1	•	•	•
Emitted interference in accordance with EN 50081 T2 (EN 50081 T1 optional)	–	–	–
Interference resistance in accordance with EN 50082 T2	•	•	•
Connections			
Nominal diameter on suction side [Rp]	1	1 1/4	1 1/2
Nominal diameter on discharge side [Rp]	1	1 1/4	1 1/2
Flange connections PN16/PN25 [DN]	–	–	–
Victral connections	–	–	–

• = available, – = not available

Note on intake pressure:

Maximum intake pressure is calculated by subtracting the maximum delivery head of the pump when Q = 0 from the maximum operating pressure of the system.

Note concerning materials:

1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Technical data Wilo-Multivert MVISE-2G

	Wilo-Multivert MVISE...-2G		
	2..	4..	8..
Materials			
Impellers	1.4301	1.4301	1.4301
Stage chambers	1.4301	1.4301	1.4301
Pump housing	1.4301	1.4301	1.4301
Shaft	1.4122	1.4122	1.4122
Seals	EPDM (EP851)	EPDM (EP851)	EPDM (EP851)
Housing cover	1.4301	1.4301	1.4301
Housing, lower part	1.4301	1.4301	1.4301
Mechanical seal	-	-	-
Pressure shell	1.4301	1.4301	1.4301
Bearing	carbon, synthetic resin-impregnated		
Pump base	FGL 250	FGL 250	FGL 250
Pump base (in contact with the flow medium)	-	-	-

* = available, - = not available

Note on intake pressure:

Maximum intake pressure is calculated by subtracting the maximum delivery head of the pump when $Q = 0$ from the maximum operating pressure of the system.

Note concerning materials:

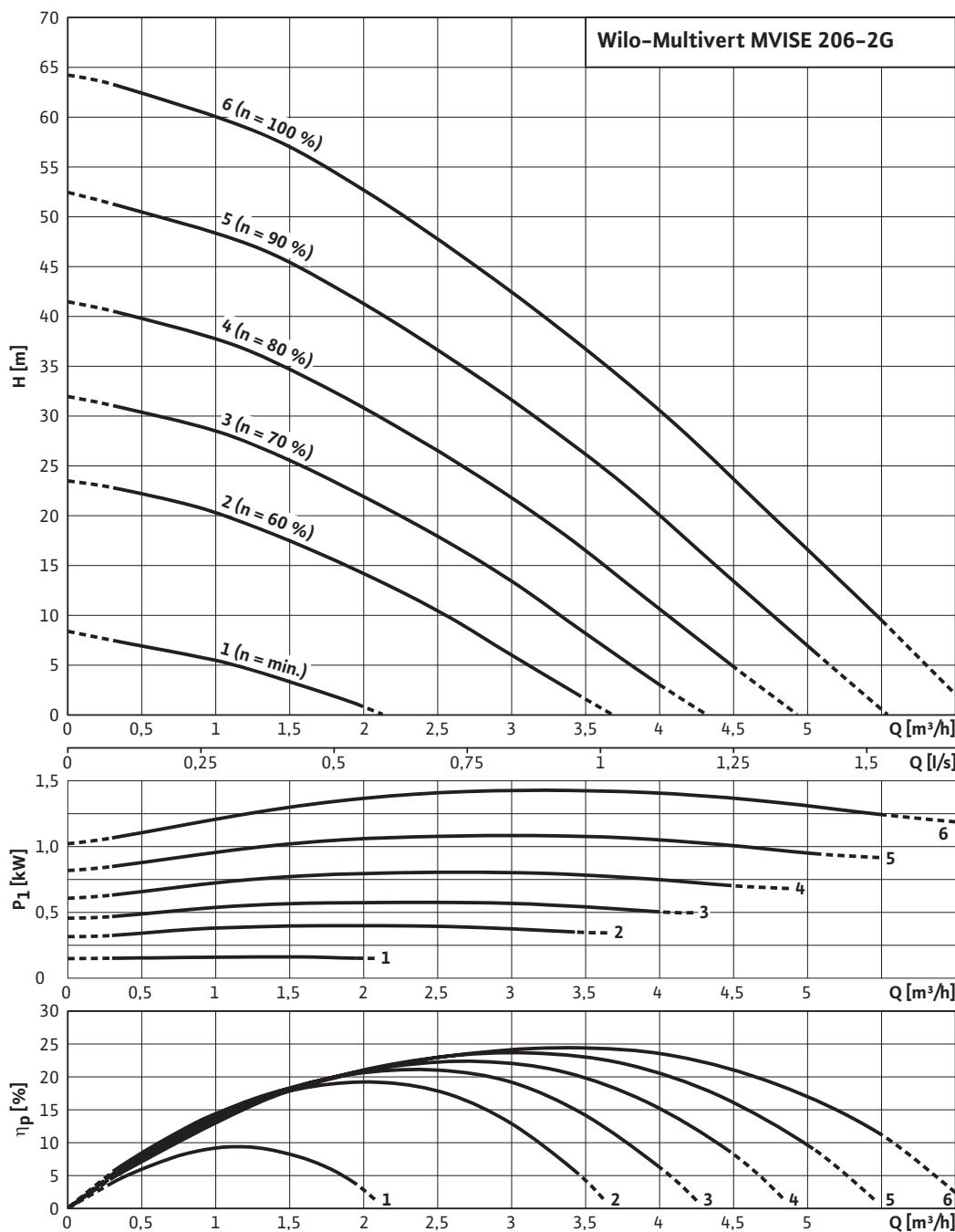
1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVISE-2G

Wilo-Multivert MVISE 206-2G



Pump curves in accordance with ISO 9906, class 2

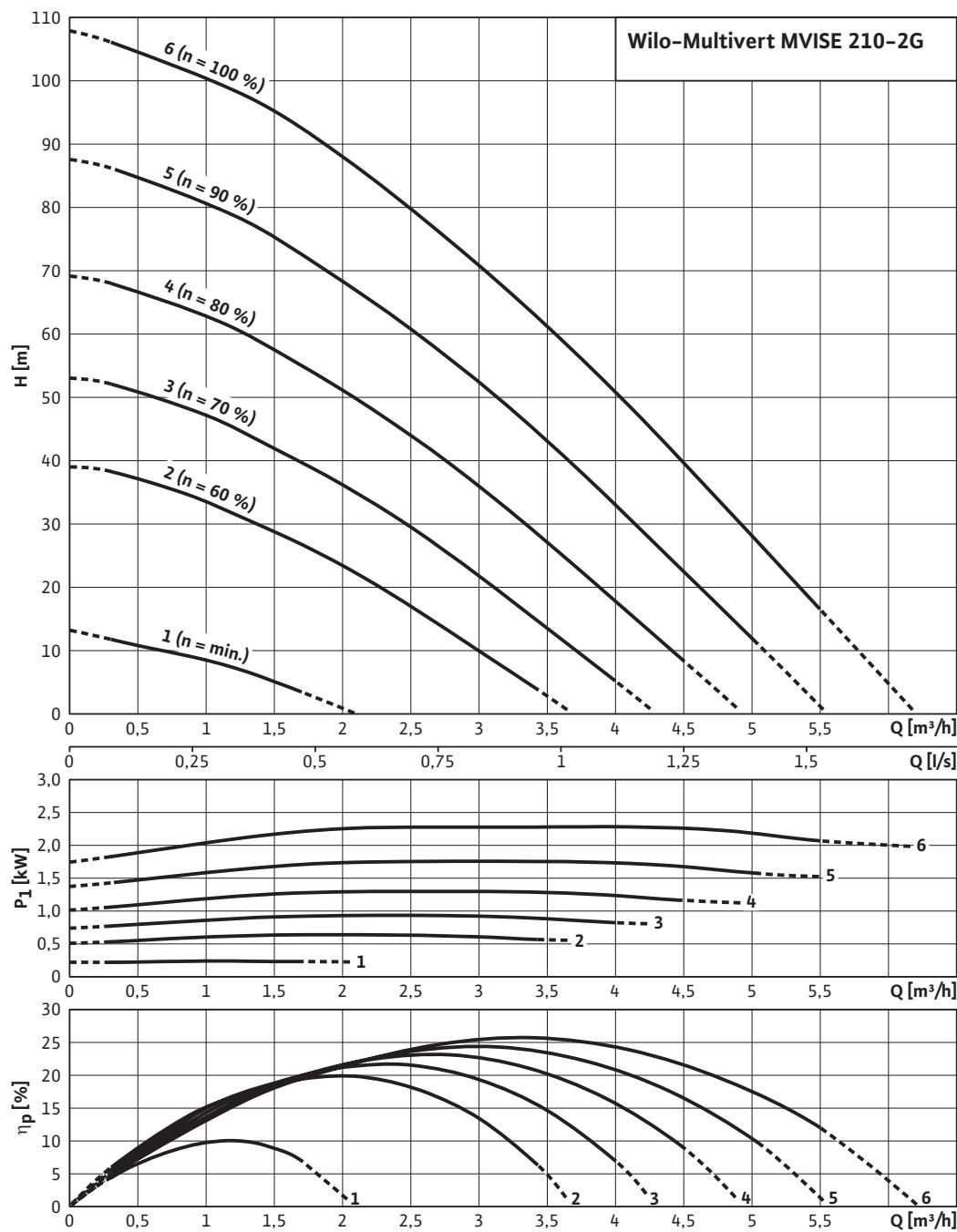
High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Pump curves Wilo-Multivert MVISE-2G

Wilo-Multivert MVISE 210-2G



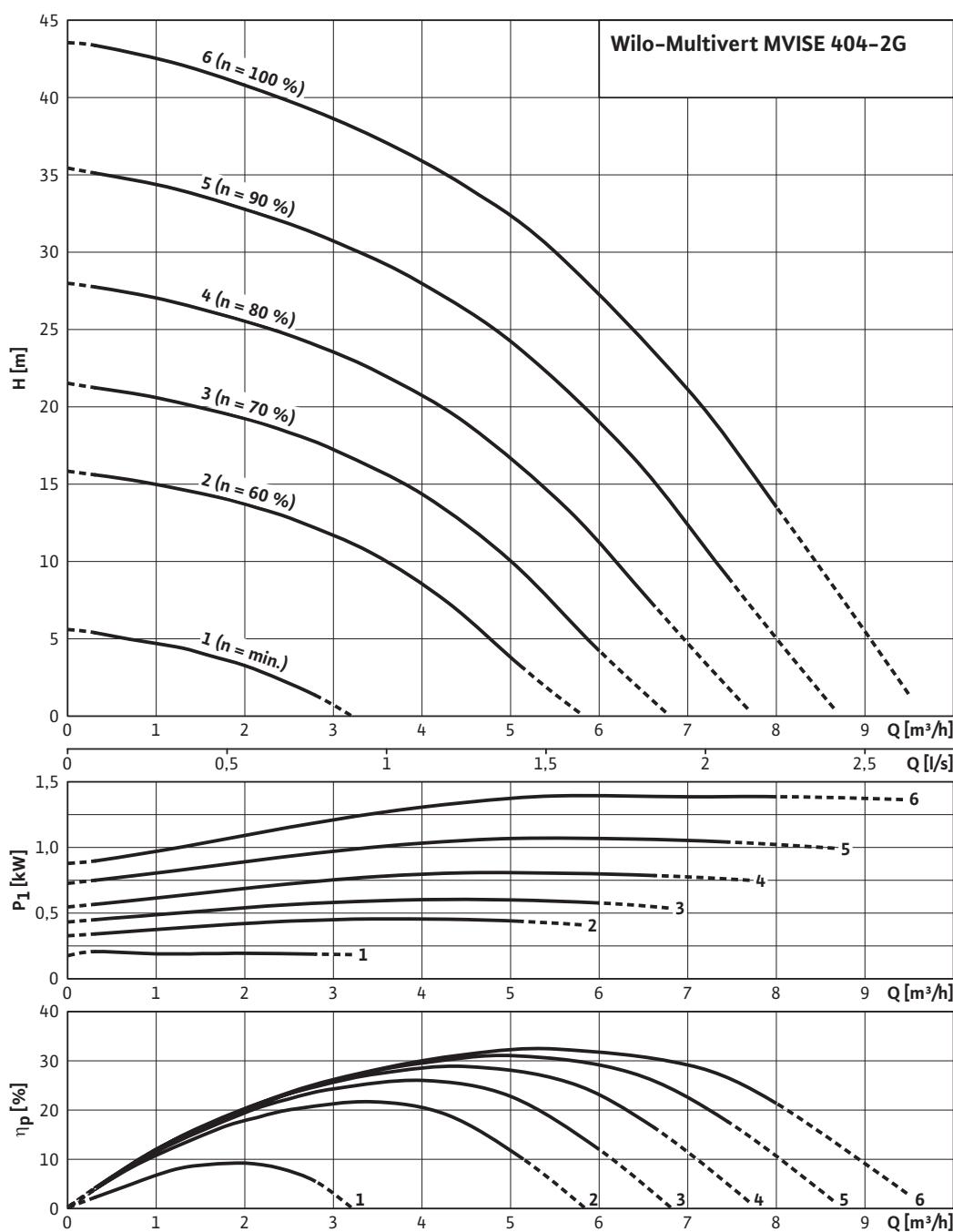
Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVISE-2G

Wilo-Multivert MVISE 404-2G



Pump curves in accordance with ISO 9906, class 2

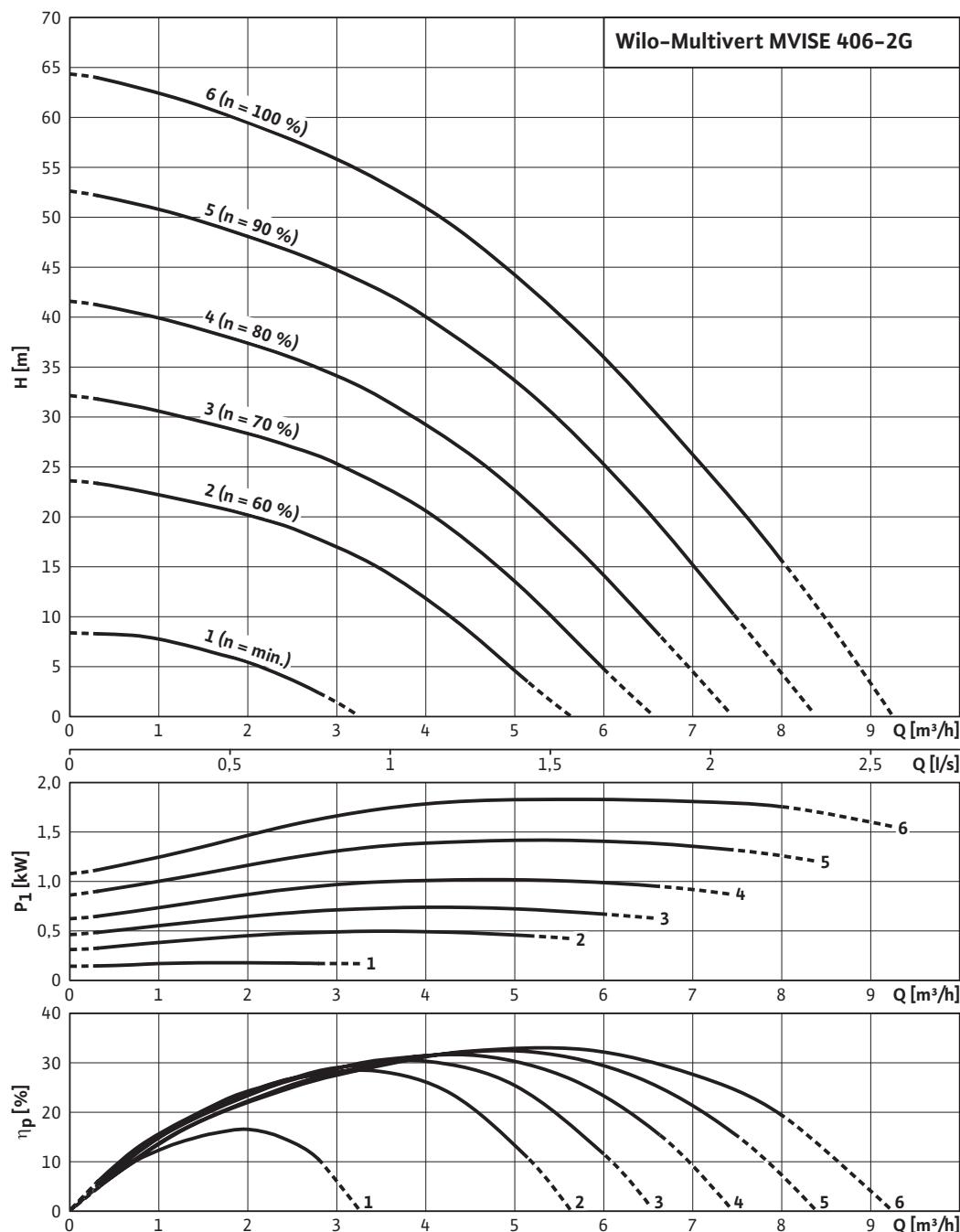
High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Pump curves Wilo-Multivert MVISE-2G

Wilo-Multivert MVISE 406-2G



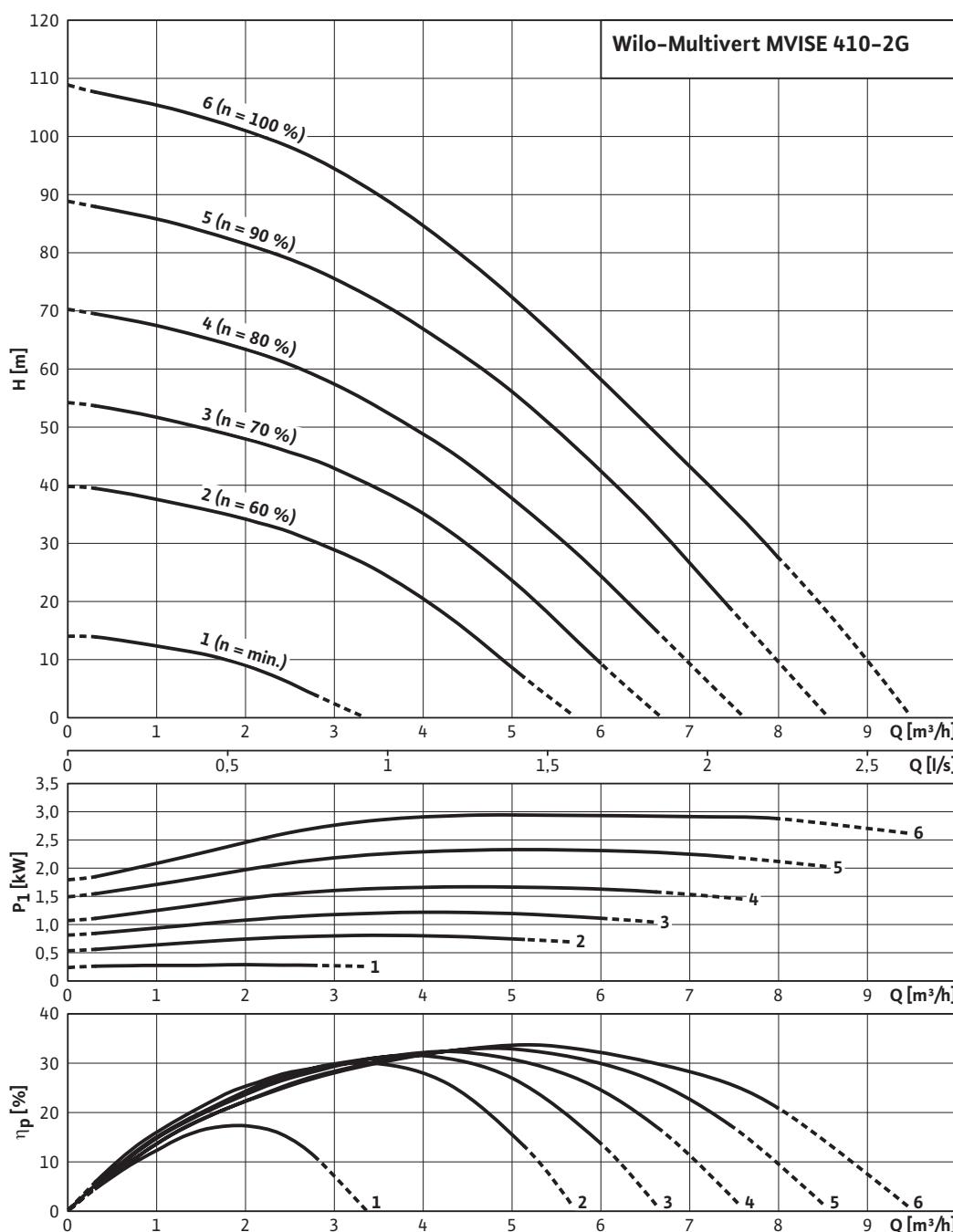
Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVISE-2G

Wilo-Multivert MVISE 410-2G



Pump curves in accordance with ISO 9906, class 2

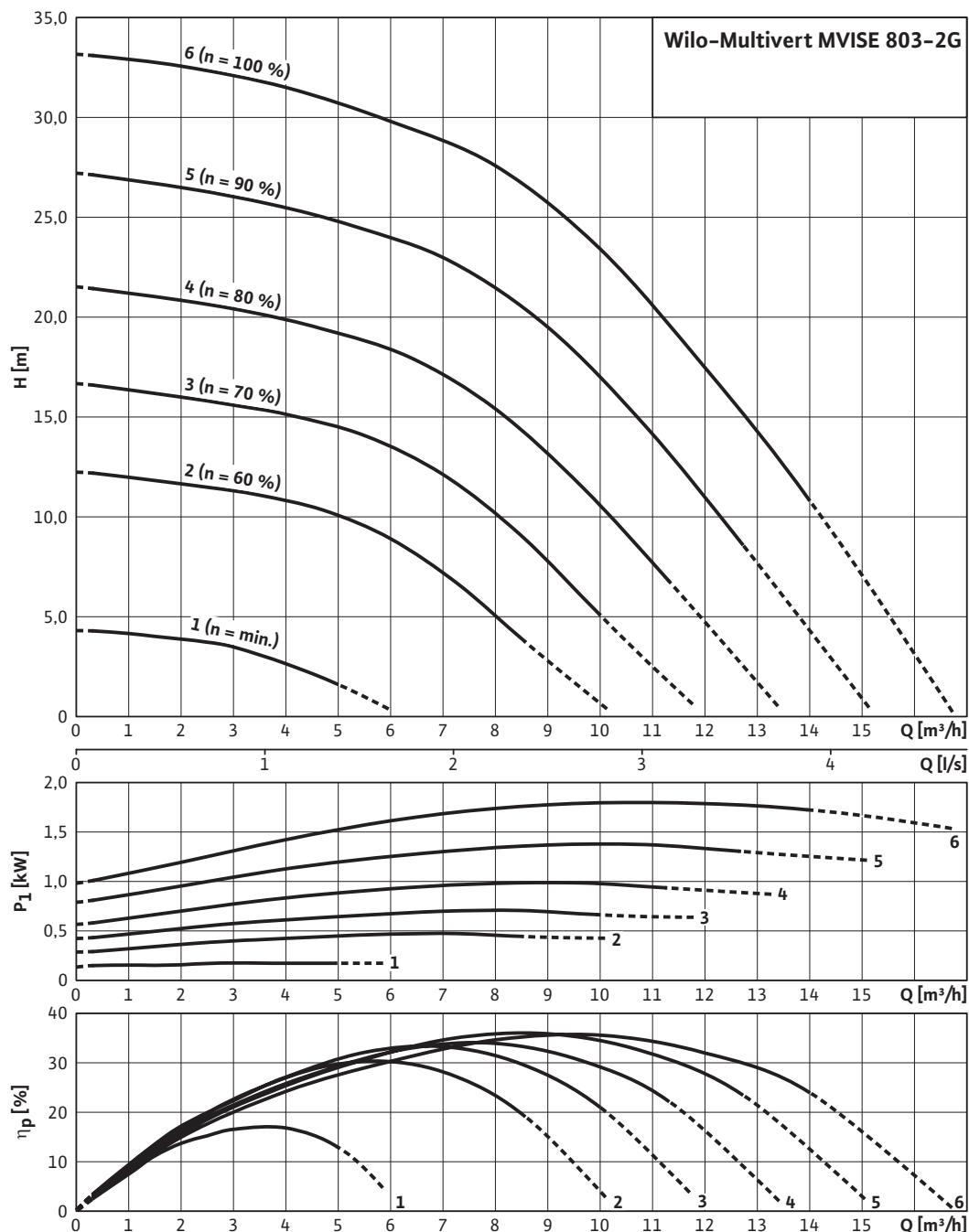
High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Pump curves Wilo-Multivert MVISE-2G

Wilo-Multivert MVISE 803-2G



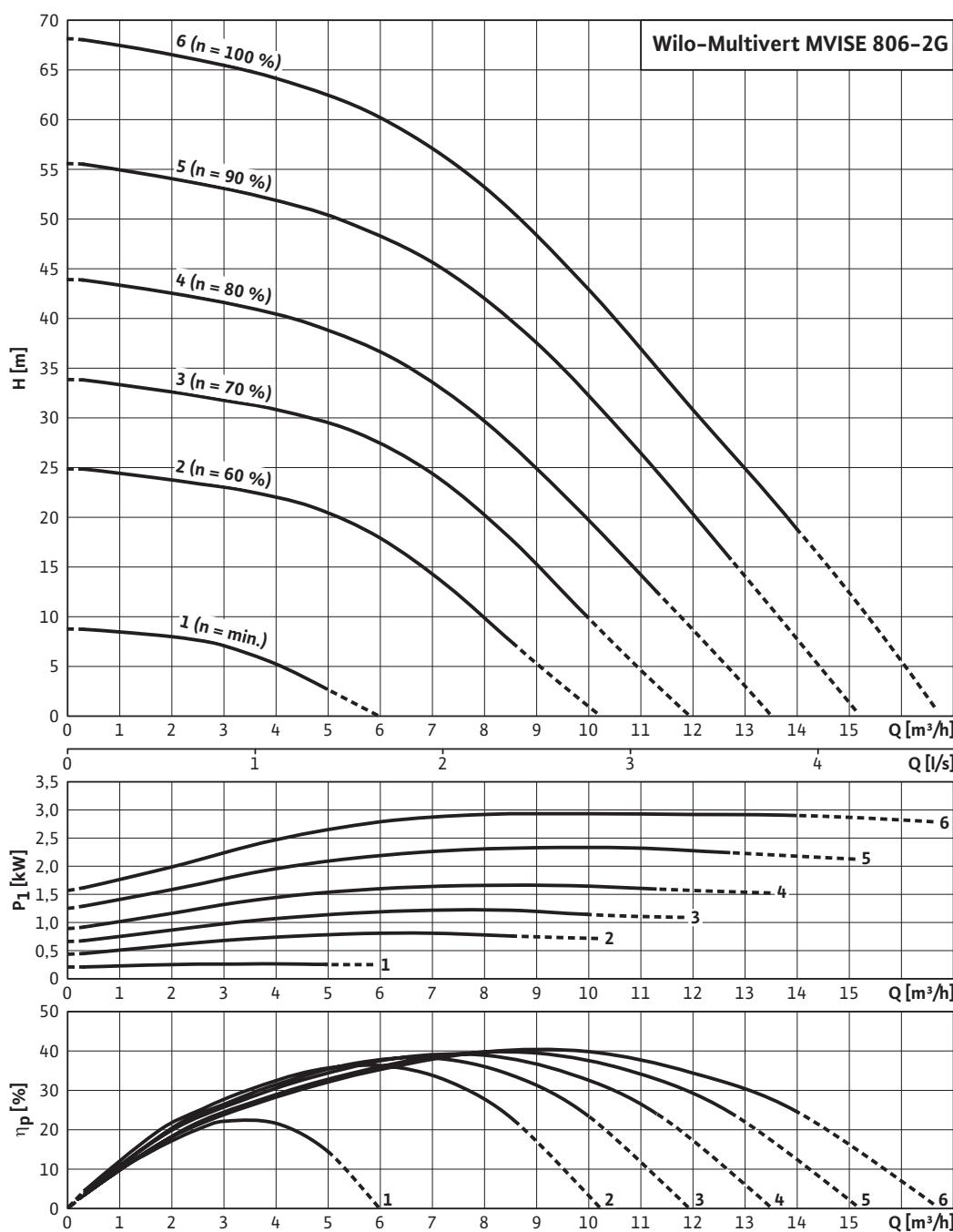
Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVISE-2G

Wilo-Multivert MVISE 806-2G



Pump curves in accordance with ISO 9906, class 2

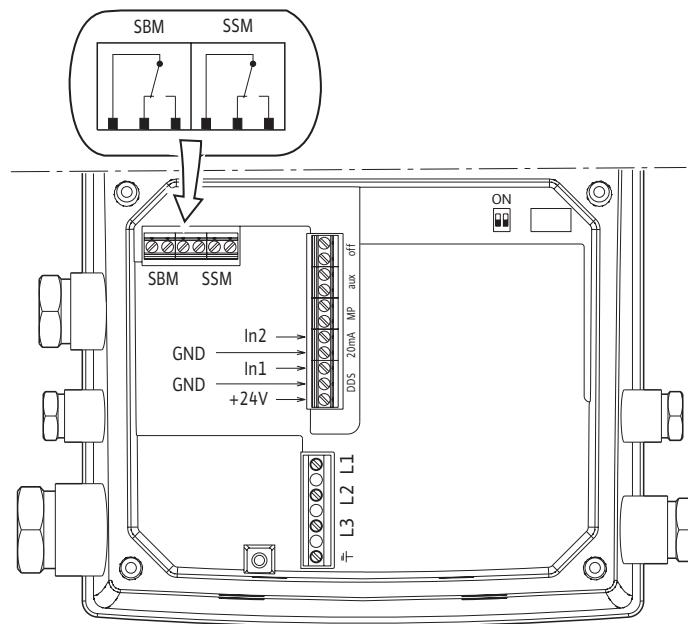
High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Terminal diagram, motor data Wilo-Multivert MVISE-2G

Terminal diagram



Motor data

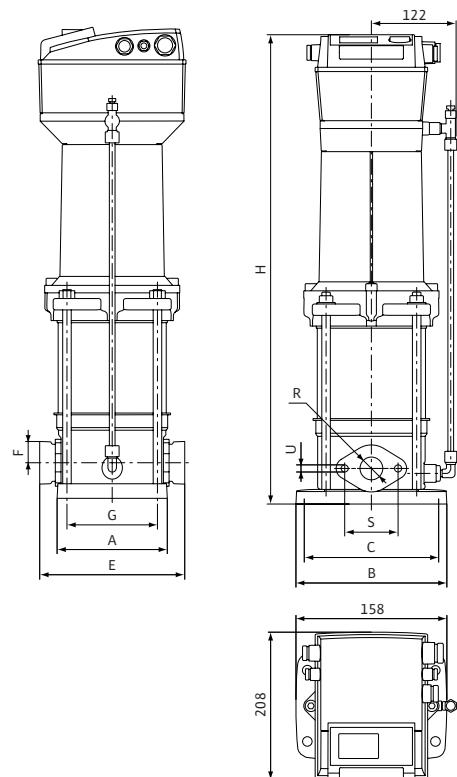
Wilo-Multivert...	Mains frequency	Mains voltage	Power consumption P_1	Nominal current I_N		Speed n		
				[Hz]	[V]	[kW]	[A]	[1/min]
MVISE 206-2G	50	3~400	1.42			4.2		2880
MVISE 210-2G	50	3~400	2.28			6.5		2870
MVISE 404-2G	50	3~400	1.40			4.2		2900
MVISE 406-2G	50	3~400	1.84			4.2		2780
MVISE 410-2G	50	3~400	2.95			6.5		2780
MVISE 803-2G	50	3~400	1.80			4.2		2840
MVISE 806-2G	50	3~400	2.93			6.5		2790

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Dimensions, weights Wilo-Multivert MVISE-2G

Dimension drawing



Dimensions, weights

Wilo-Multivert...	A	B	C	E ¹⁾	F	G	R	H	S	U	Weight ²⁾ [kg]
	[mm]										
MVISE 206-2G	160	212	180	204	50	100	Rp 1	630	75	M10	36
MVISE 210-2G	160	212	180	204	50	100	Rp 1	756	75	M10	36
MVISE 404-2G	160	212	180	204	50	100	Rp 1 1/4	582	75	M10	35
MVISE 406-2G	160	212	180	204	50	100	Rp 1 1/4	630	75	M10	36
MVISE 410-2G	160	212	180	204	50	100	Rp 1 1/4	756	75	M10	36
MVISE 803-2G	200	252	215	248	80	130	Rp 1 1/2	615	100	M12	33
MVISE 806-2G	200	252	215	248	80	130	Rp 1 1/2	735	100	M12	38

¹⁾ dimension E including mating flange (2 pcs. à 25 mm)

²⁾ weight data without packing

High-Pressure Multistage Centrifugal Pumps

Single-head pumps



Single-head pumps

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Version overview Wilo-Multivert MVIE

	Wilo-Multivert MVIE 2/4/8/16-6	Wilo-Multivert MVIE 16/32/52
Material		
Pump base EN-GJL-250 with cataphoresis coating hydraulics in 1.4301/1.4404 (AISI 304/316L)	–	•
Parts that come into contact with the fluid in 1.4301 (AISI 304)	•	•
Parts that come into contact with the fluid in 1.4404 (AISI 316L)	•	•
Seal versions		
EPDM	•	•
Viton	•	•
Hydraulic connection		
Screw thread	–	–
Oval flange	•	–
Round flange	•	•
Victaulic quick coupling	•	–
Motor versions		
Individual motors	–	–
1~230 V, 50 Hz	• (only vers. 2../4..)	–
3~230 V, 50 Hz	–	–
3~400 V, 50 Hz	–	–
3~500 V, 50 Hz	–	–
1~110 V, 60 Hz	–	–
1~220 V, 60 Hz	–	–
3~380 V, 60 Hz	–	–
3~400 V, 60 Hz	–	–
3~440 V, 60 Hz	–	–
3~460 V, 60 Hz	–	–
3~480 V, 60 Hz	–	–
3~380 V to 440 V and 50 Hz to 60 Hz	•	•
IP 44	–	–
IP 54	•	•
IP 55	–	–
Ex-protected motors	–	–
Motors with PTC thermistors	•	•
Motors with UL certificates	–	–
Motors with CSA certificates	–	–
Thermal motor protection	–	–
RPM-regulated by means of external frequency converter (FU)	–	–
Integrated frequency converter	•	•

• = standard version, – = not on hand and/or not obtainable

High-Pressure Multistage Centrifugal Pumps



Single-head pumps

Version overview Wilo-Multivert MVIE

	Wilo-Multivert MVIE 2/4/8/16-6	Wilo-Multivert MVIE 16/32/52
Paintwork		
Custom paintwork	optional	optional
Mechanical seals		
Tungsten carbide/carbon	•	•
Tungsten carbide/tungsten carbide	optional	optional
SiC/SiC	optional	optional
Potable water authorisations		
KTW	•	•
WRAS	•	•

• = standard version, – = not on hand and/or not obtainable

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Technical data Wilo-Multivert MVIE

	Wilo-Multivert MVIE...						
	2..	4..	8..	16..-6	16..	32..	52..
Approved fluids							
Potable water, heating water, process water	•	•	•	•	•	•	•
Condensate	•	•	•	•	•	•	•
Water-glycol mixture (up to 40% vol. share of glycol/performance check required starting with 10% vol. share of glycol)	•	•	•	•	•	•	•
Other low-viscosity fluids (without abrasive or long-fibre constituents, insofar as they do not attack the materials used)	•	•	•	•	•	•	•
Performance (with 50 Hz operation)							
Maximum flow volume [m ³ /h]	7	11	20	34	34	65	98
Maximum delivery head [m]	235	230	190	110	250	185	150
Fluid temperature [°C]	-15 to +120						
Ambient temperature [C]	40	40	40	40	40	40	40
Operating pressure [bar]	25	25	25	25	25	25	25
Intake pressure [bar]	10	10	10	10	10	10	10
Rated motor speed [1/min]	1500 – 3770						
Motor							
Mains connection 1~ [V/Hz] (permitted voltage tolerance ± 10%)	230/50 230/60	230/50 230/60	230/50 230/60	230/50 230/60	230/50 230/60	230/50 230/60	230/50 230/60
Mains connection 3~ [V/Hz] (permitted voltage tolerance ± 10%)	400/50 Y 400/60 Y	400/50 Y 400/60 Y	400/50 Y 400/60 Y	400/50 Y 400/60 Y	400/50 Y 400/60 Y	400/50 Y 400/60 Y	400/50 Y 400/60 Y
Insulation class	F	F	F	F	F	F	F
Protection class	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
Emitted interference in accordance with EN 50081 T1	optional	optional	optional	optional	optional	optional	optional
Emitted interference in accordance with EN 50081 T2	•	•	•	•	•	•	•
Interference resistance in accordance with EN 50082 T2	•	•	•	•	•	•	•
Connections							
Flange connections PN16/PN25 [DN]	25	32	40	50	65	80	80
Vicatulic connections	•	•	•	–	–	–	–
Materials							
Impellers	1.4301/1.4404						
Stage chambers	1.4301/1.4404						

• = available, – = not available

Note on intake pressure:

Maximum intake pressure is calculated by subtracting the maximum delivery head of the pump when Q = 0 from the maximum operating pressure of the system.

Note concerning materials:

1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

High-Pressure Multistage Centrifugal Pumps



Single-head pumps

Technical data Wilo-Multivert MVIE

	Wilo-Multivert MVIE...						
	2..	4..	8..	16..-6	16..	32..	52..
Materials (continued)							
Pump housing				1.4301/1.4404			
Shaft				1.4057/1.4404			
Seals				EPDM (EP851)/Viton			
Housing cover				1.4301/1.4404			
Housing, lower part		1.4301/1.4404			-	-	-
Mechanical seal			tungsten carbide/carbon SiC/carbon				
Pressure shell			1.4301/1.4404				
Bearing			tungsten carbide				
Pump base			FGL 250/316				
Pump base (in contact with the flow medium)	-	-	-	-		EN-GJL-250/1.4408	

* = available, - = not available

Note on intake pressure:

Maximum intake pressure is calculated by subtracting the maximum delivery head of the pump when Q = 0 from the maximum operating pressure of the system.

Note concerning materials:

1.4301 corresponds to AISI 304, 1.4404 corresponds to AISI 316L.

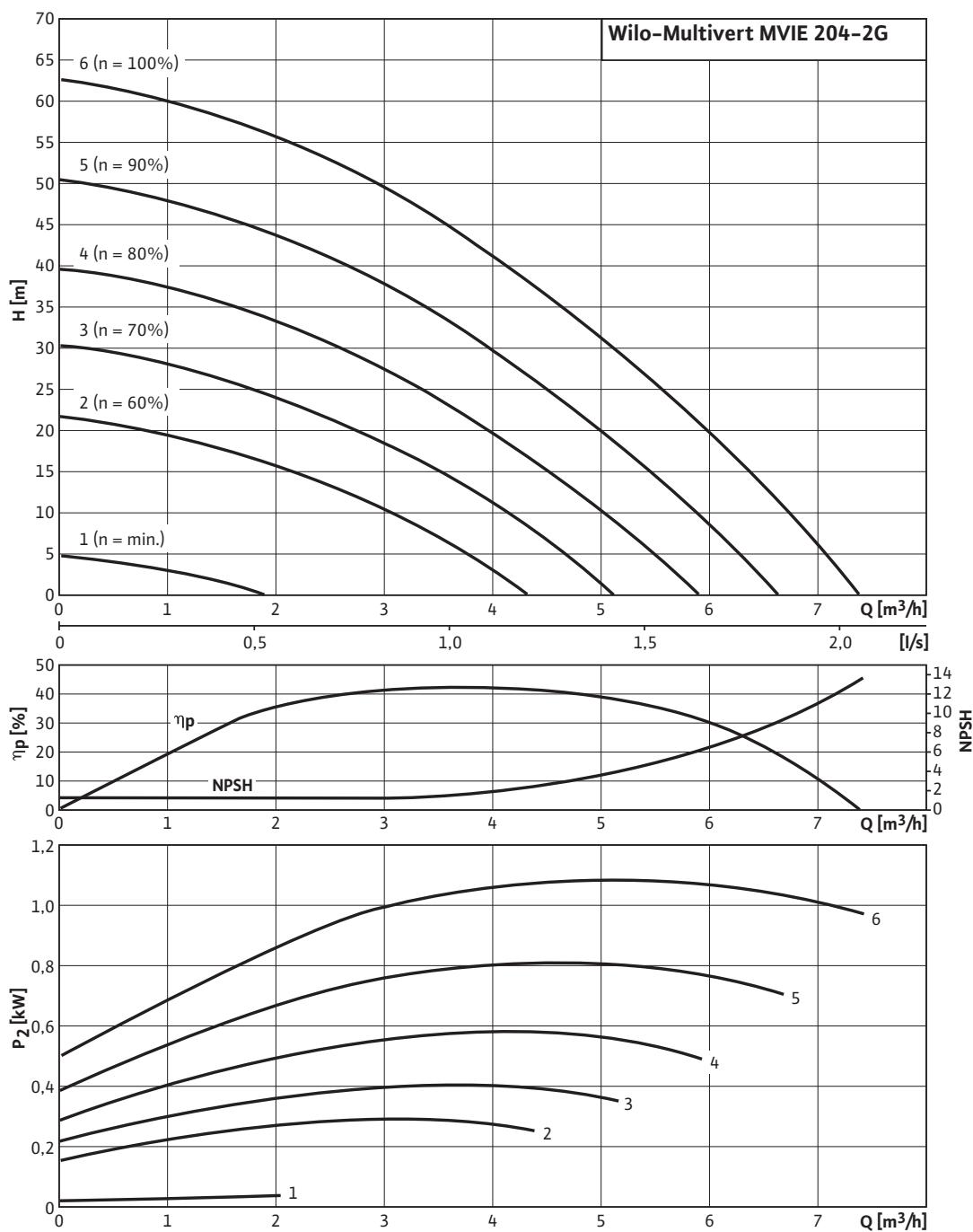
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 204-2G

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

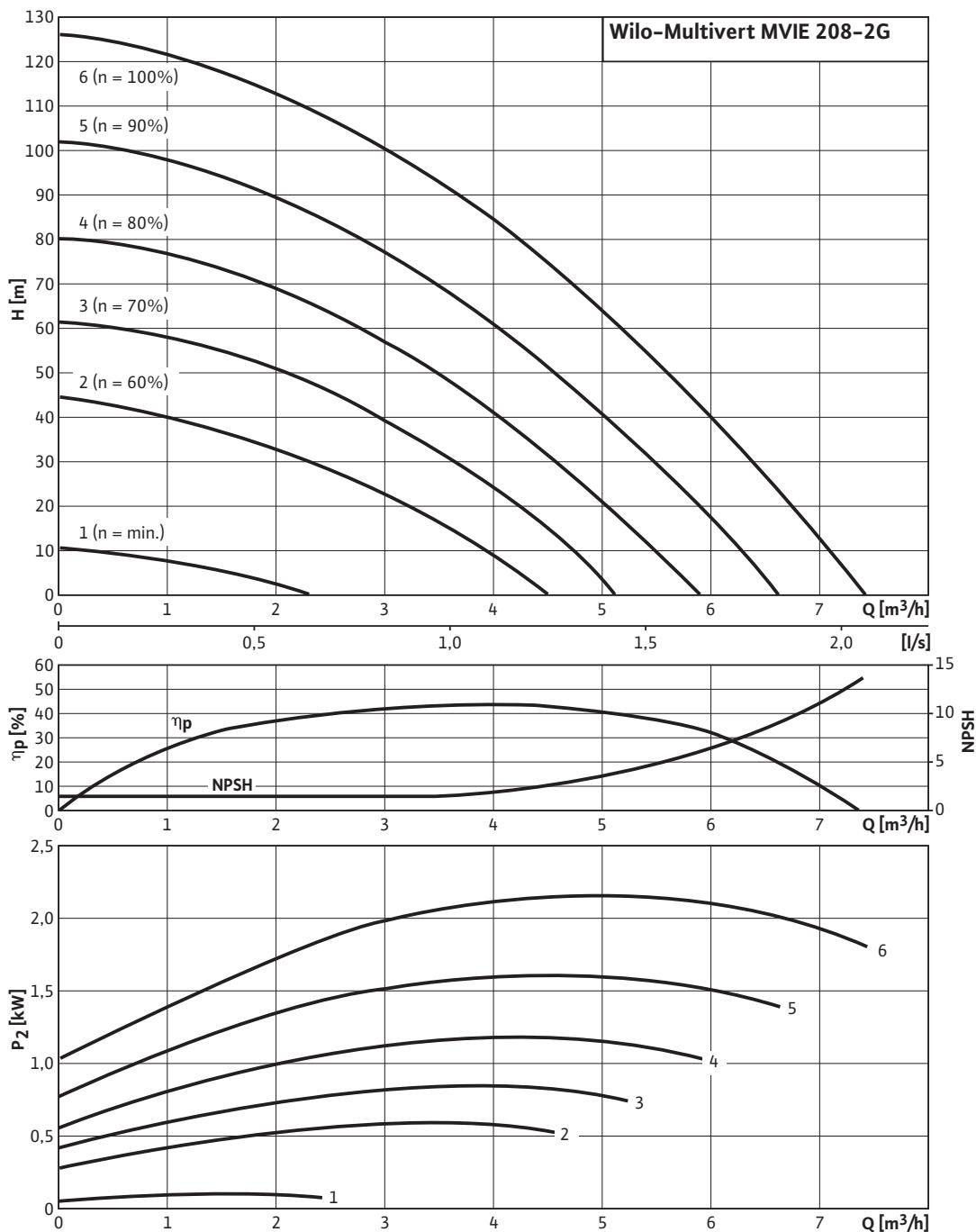
WILO

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 208-2G

3~400 V



Pump curves in accordance with ISO 9906, class 2

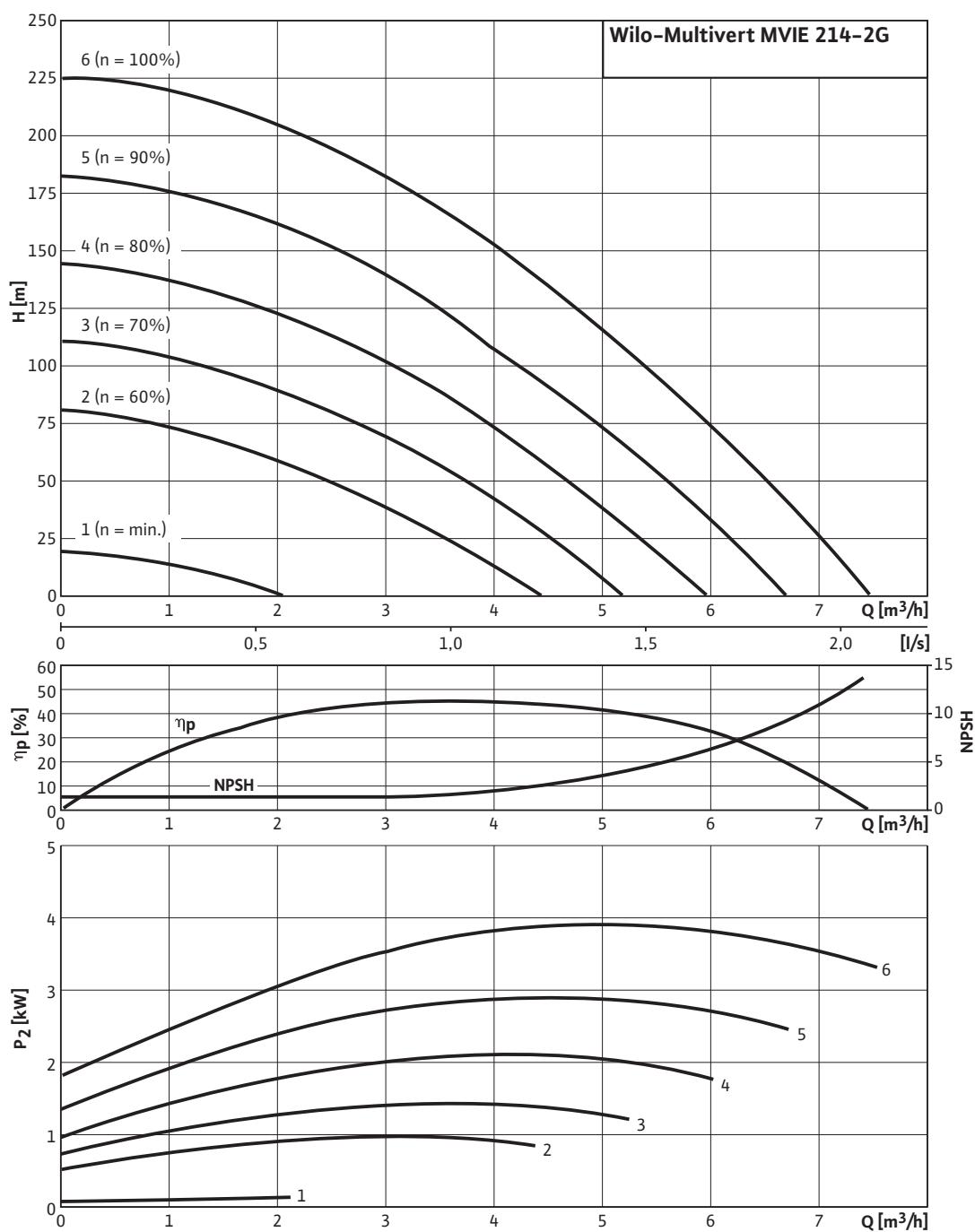
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 214-2G

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

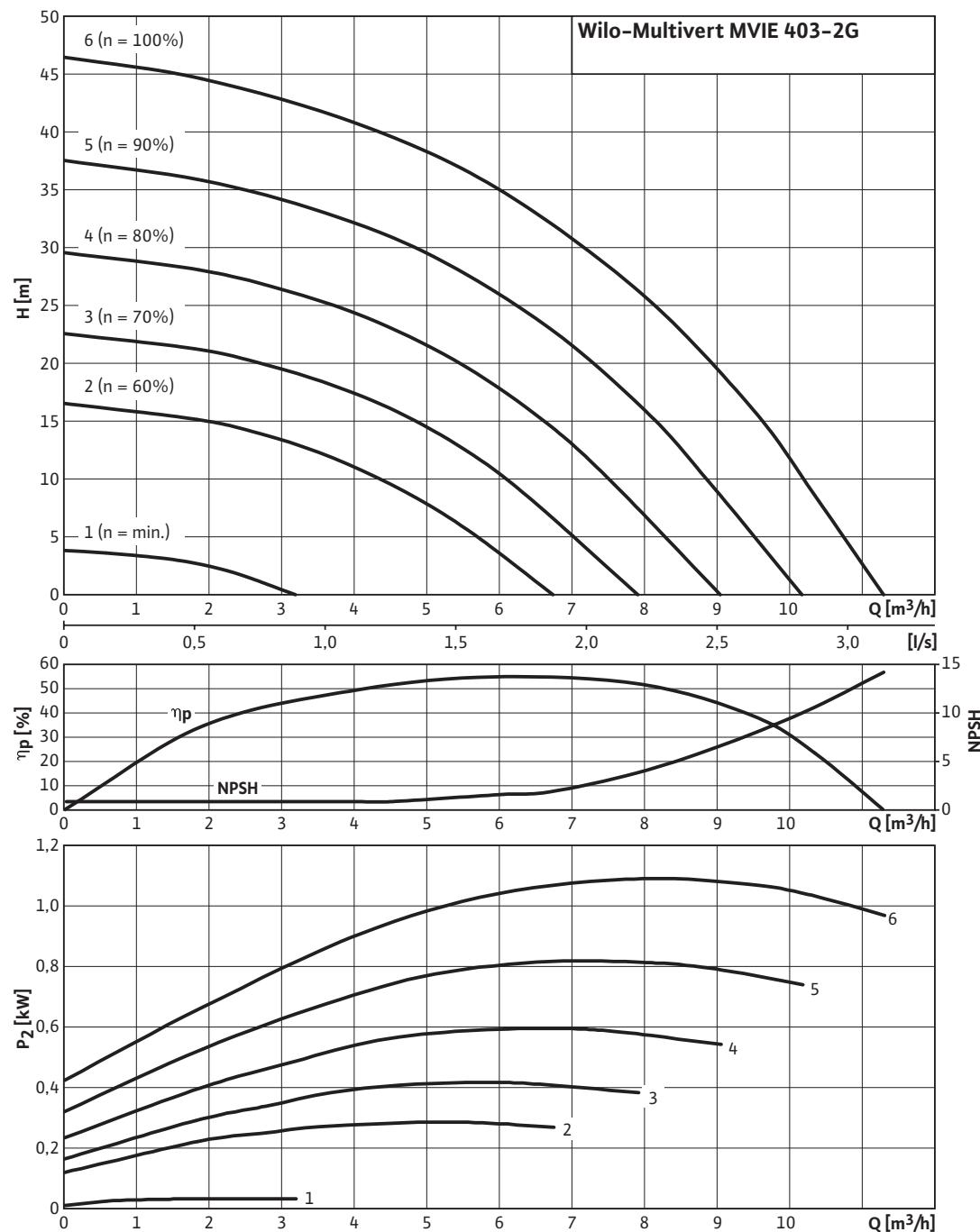
WILO

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 403-2G

3~400 V



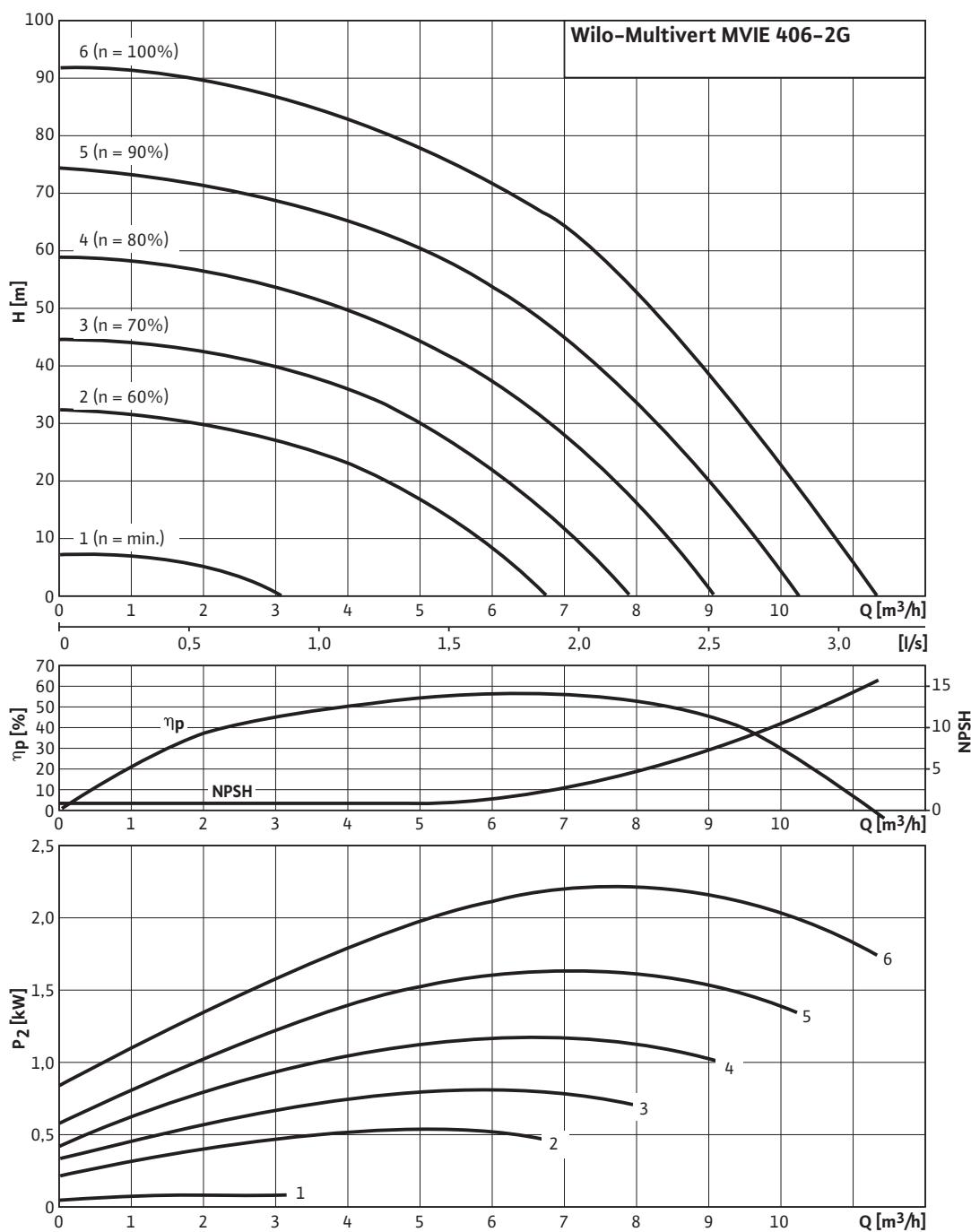
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 406-2G

3~400 V



High-Pressure Multistage Centrifugal Pumps

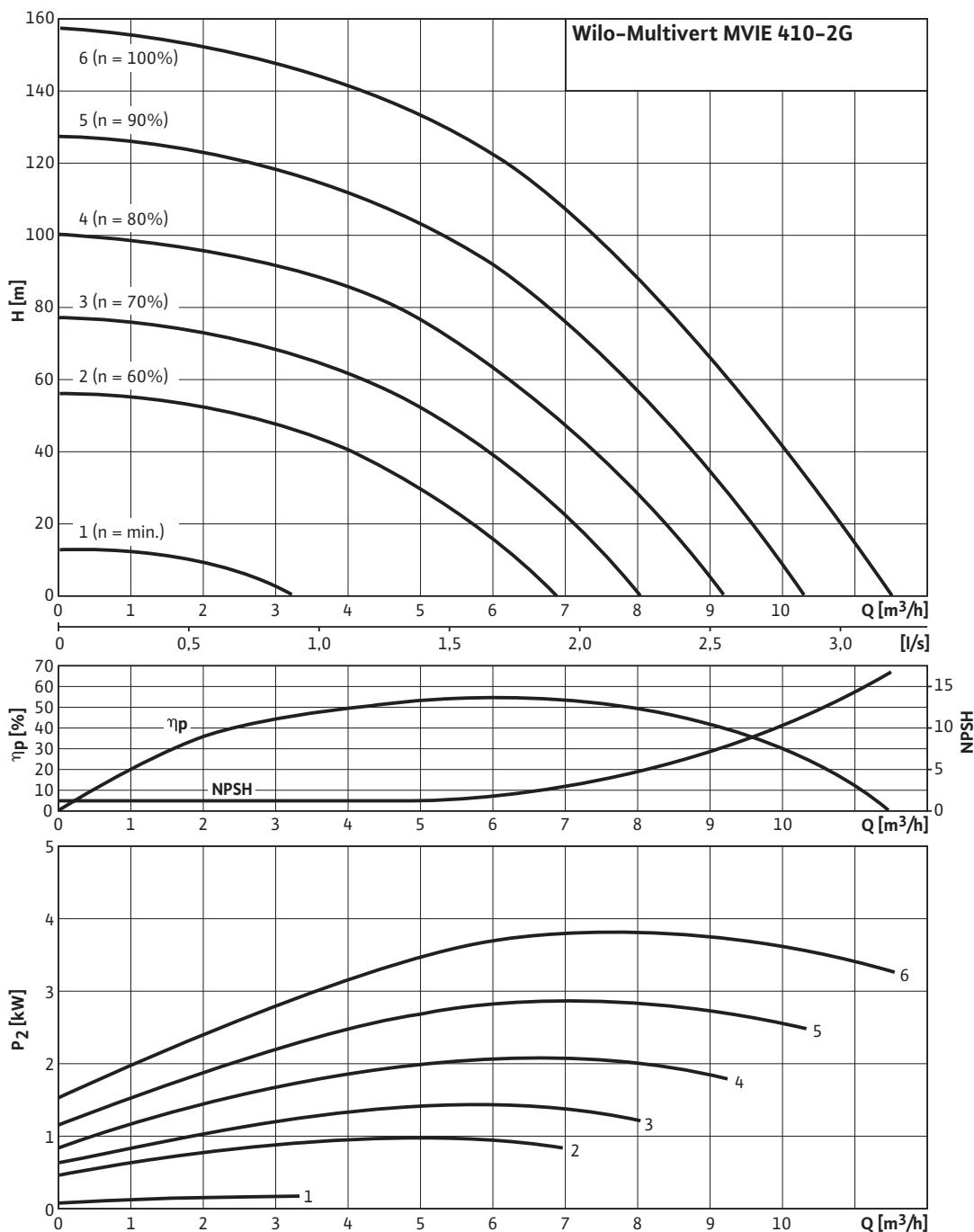
Single-head pumps

WILO

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 410-2G

3~400 V



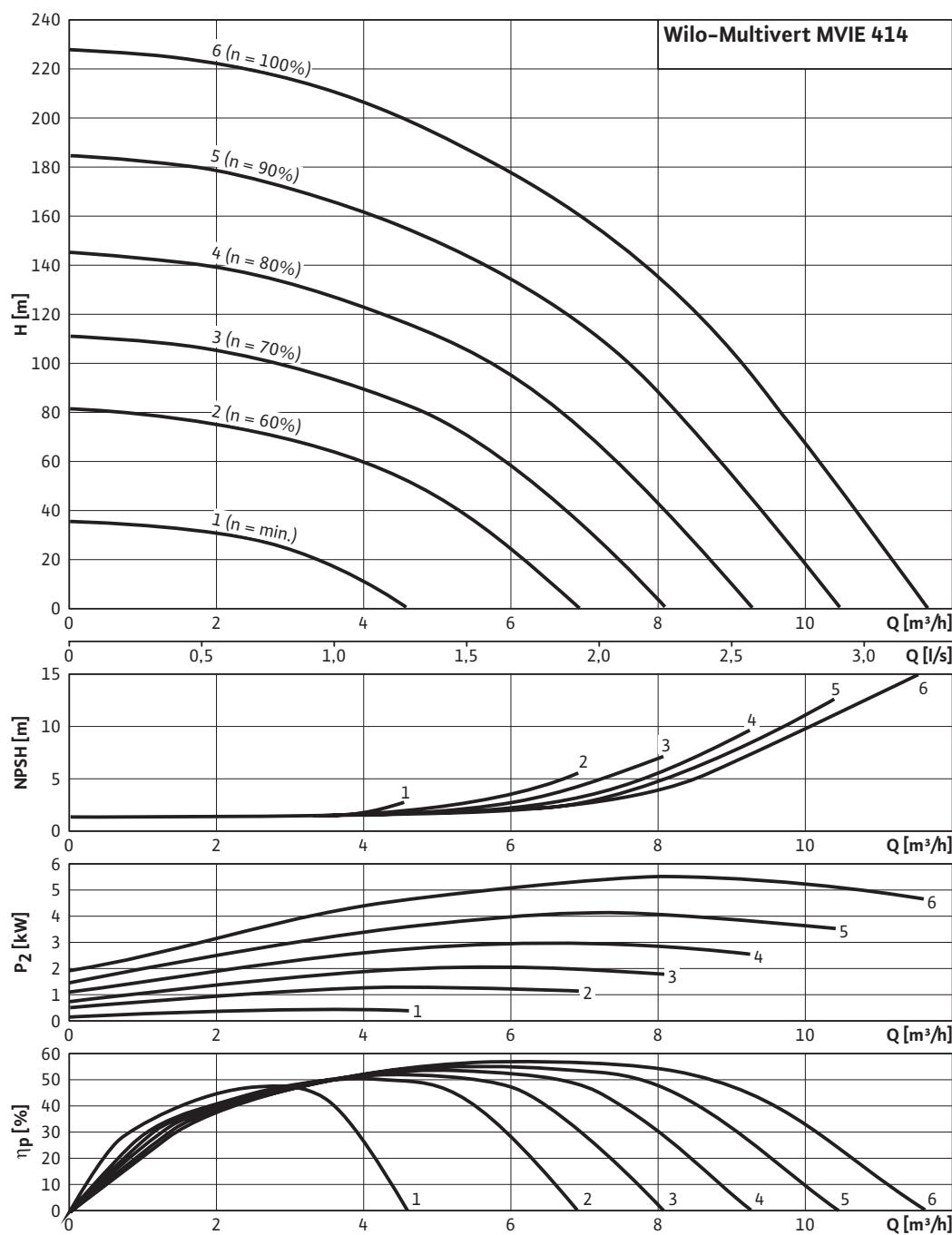
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 414

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

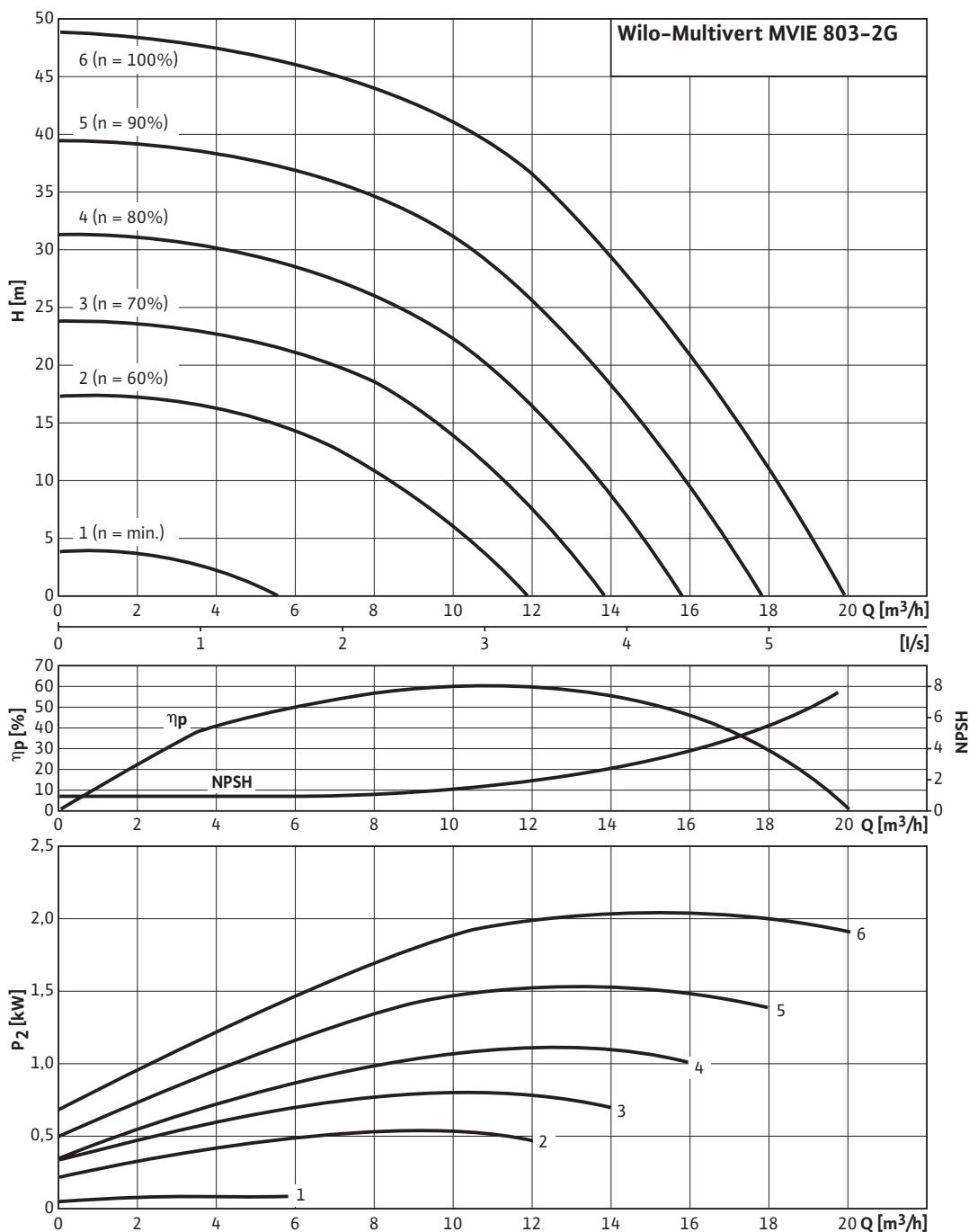
WILO

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 803-2G

3~400 V



Pump curves in accordance with ISO 9906, class 2

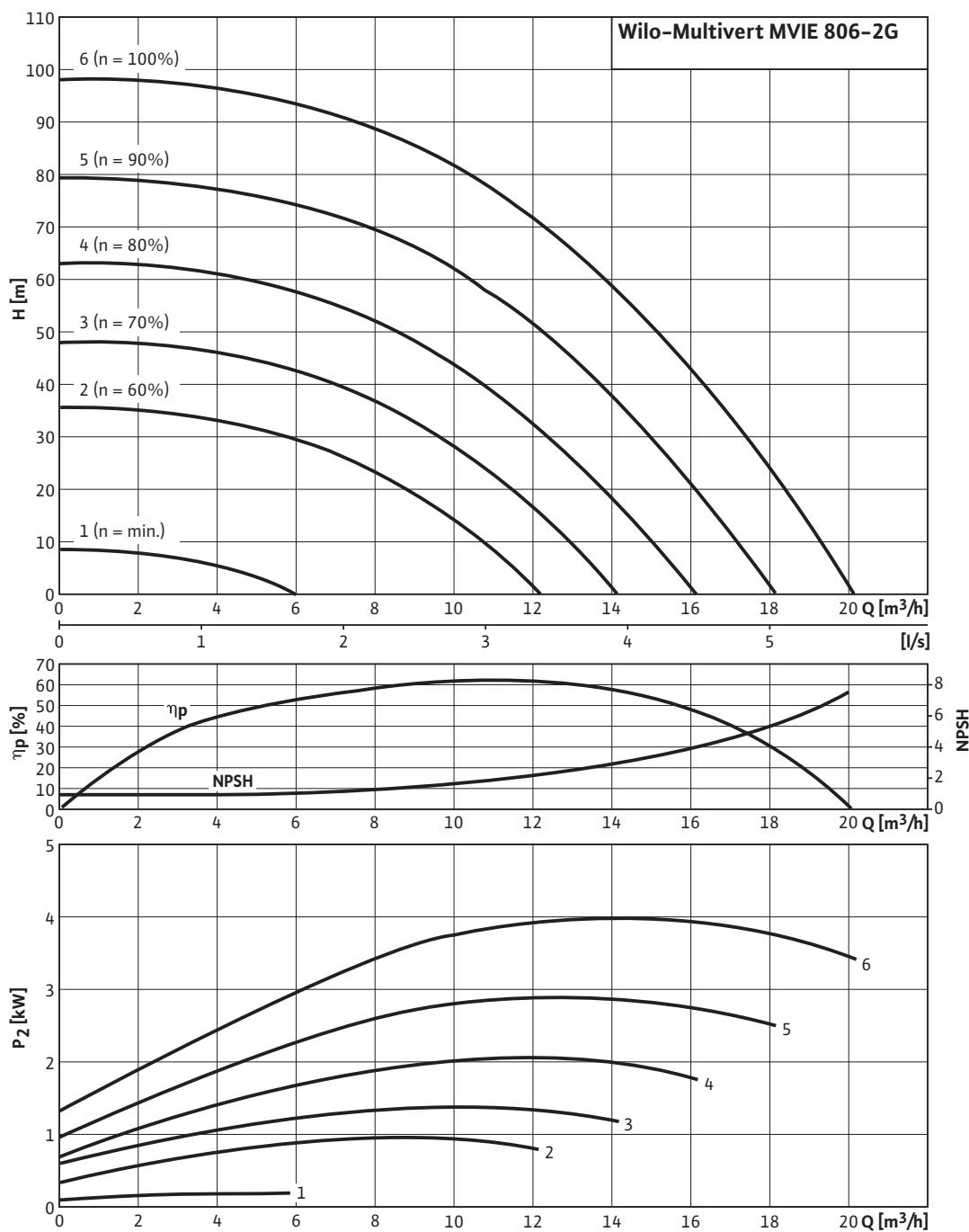
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 806-2G

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

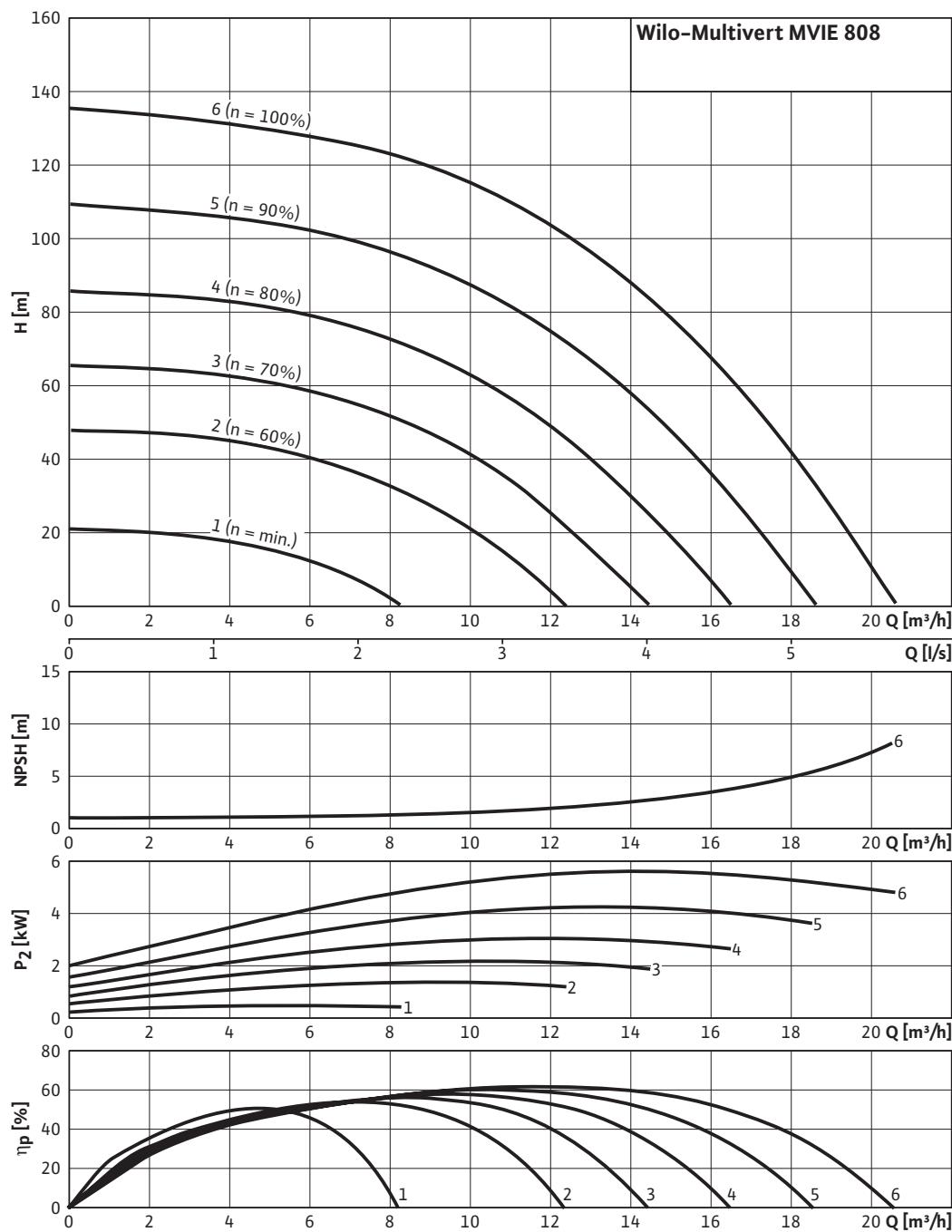
WILO

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 808

3~400 V



Pump curves in accordance with ISO 9906, class 2

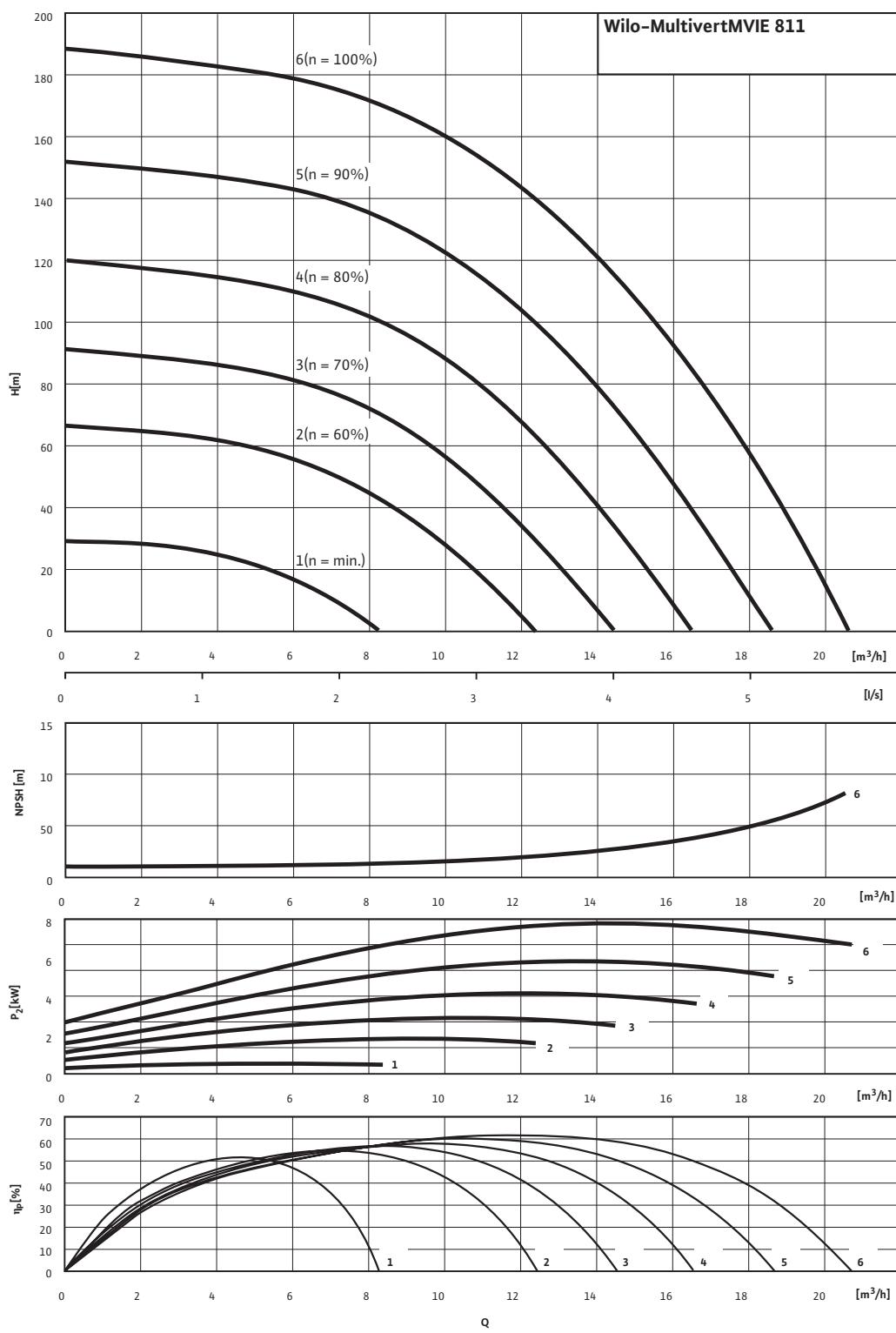
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 811

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

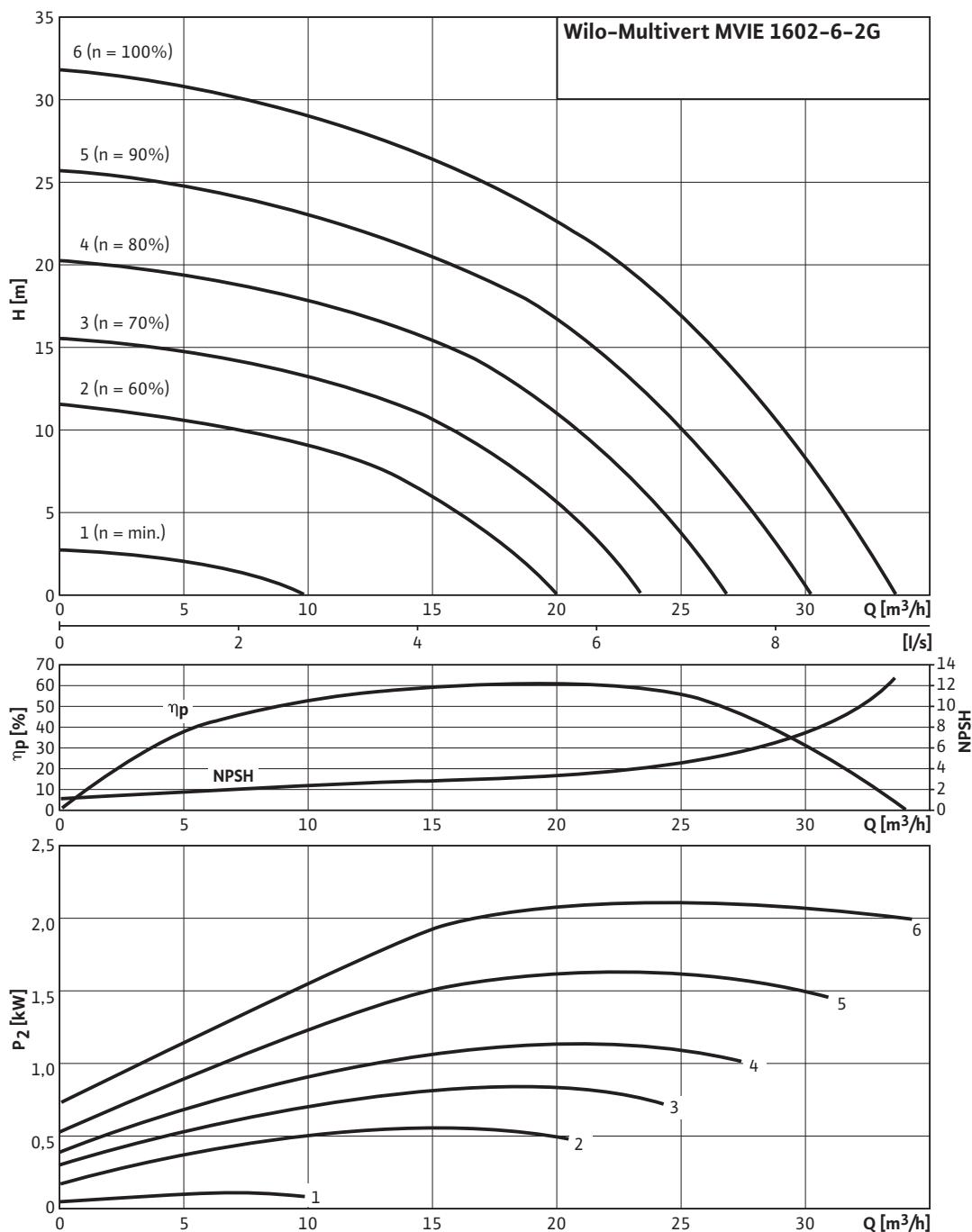
WILO

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 1602-6-2G

3~400 V



Pump curves in accordance with ISO 9906, class 2

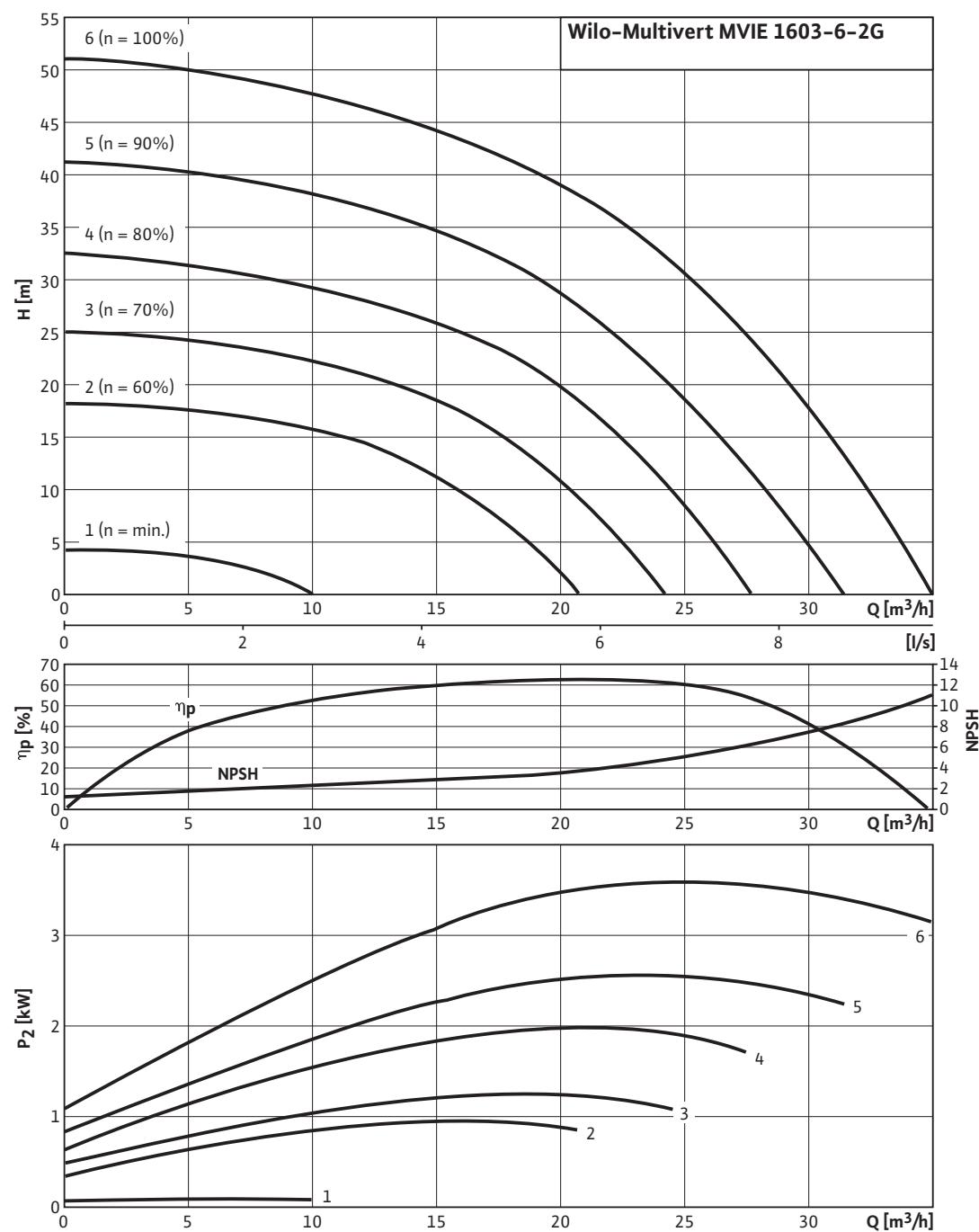
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 1603-6-2G

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

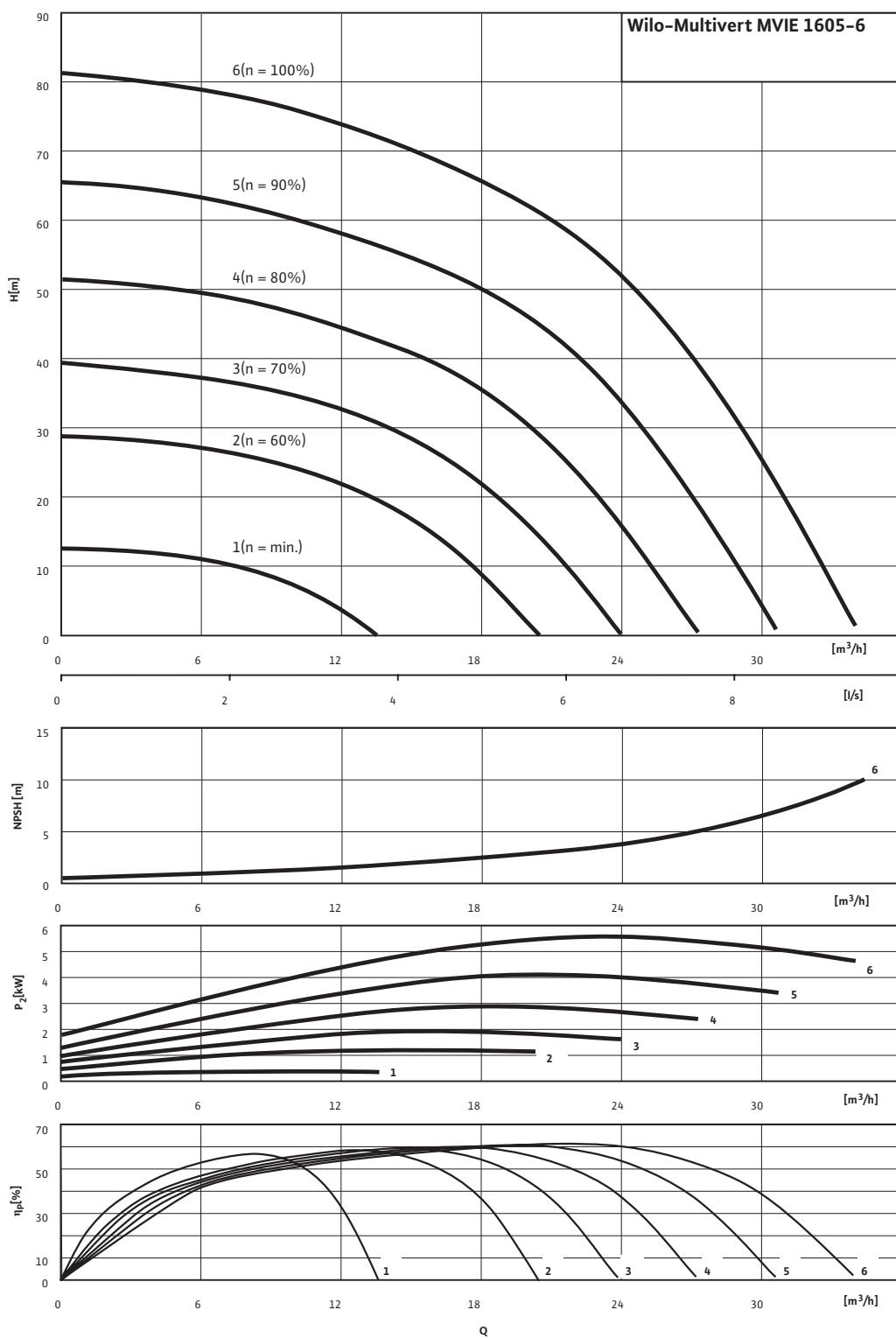
WILO

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 1605-6

3~400 V



Pump curves in accordance with ISO 9906, class 2

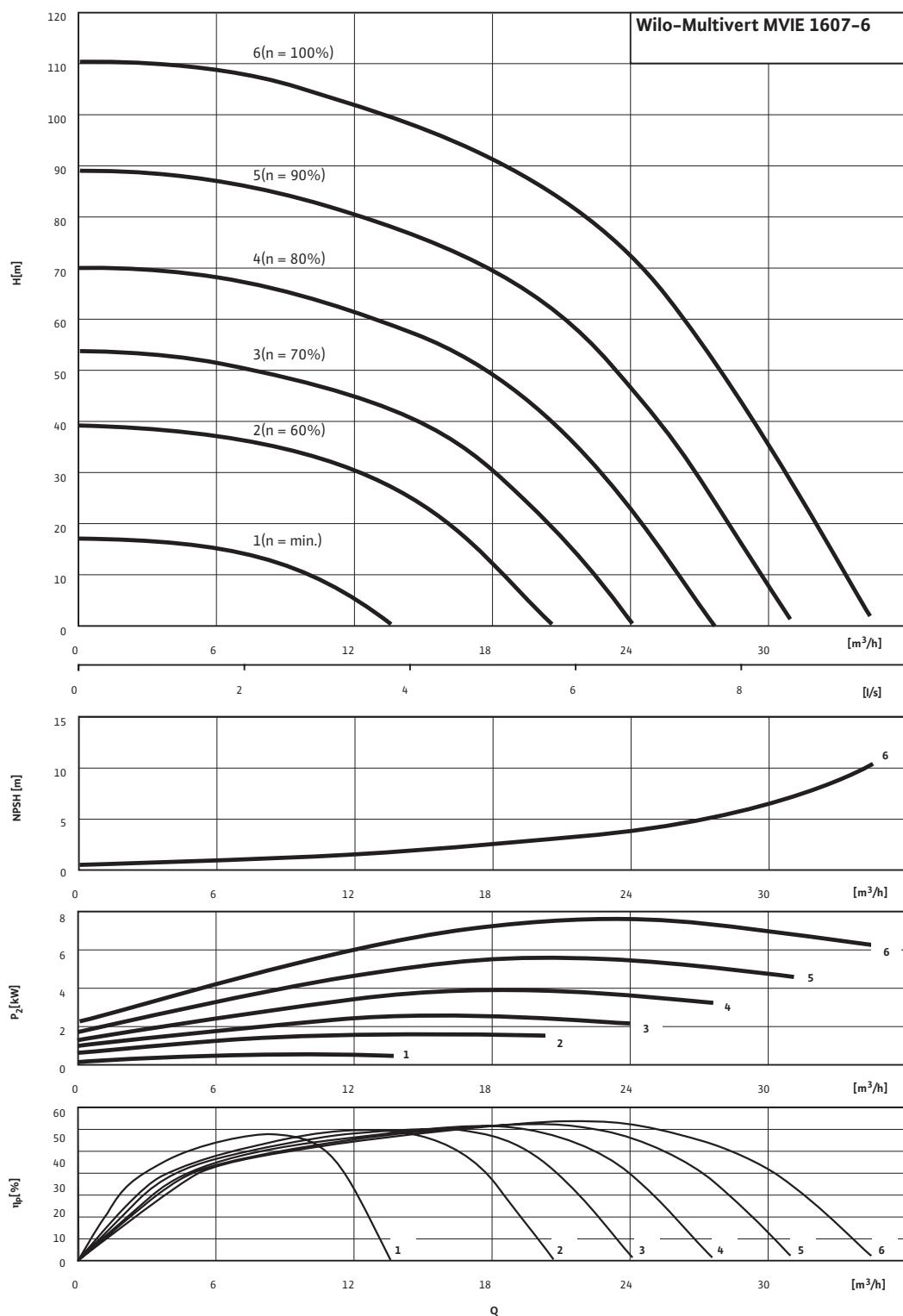
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 1607-6

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

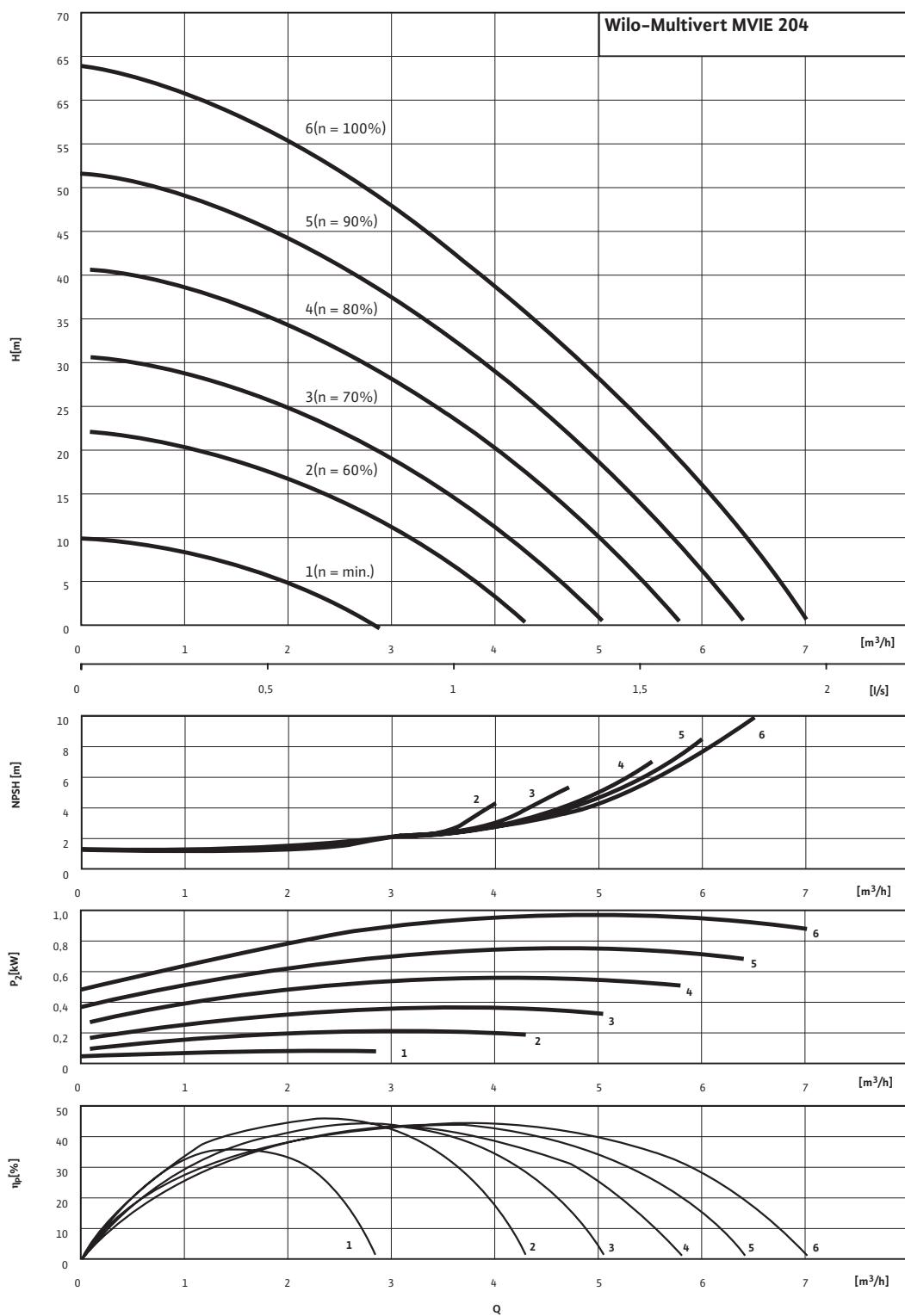
Single-head pumps

WILO

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 204

1~230 V



Pump curves in accordance with ISO 9906, class 2

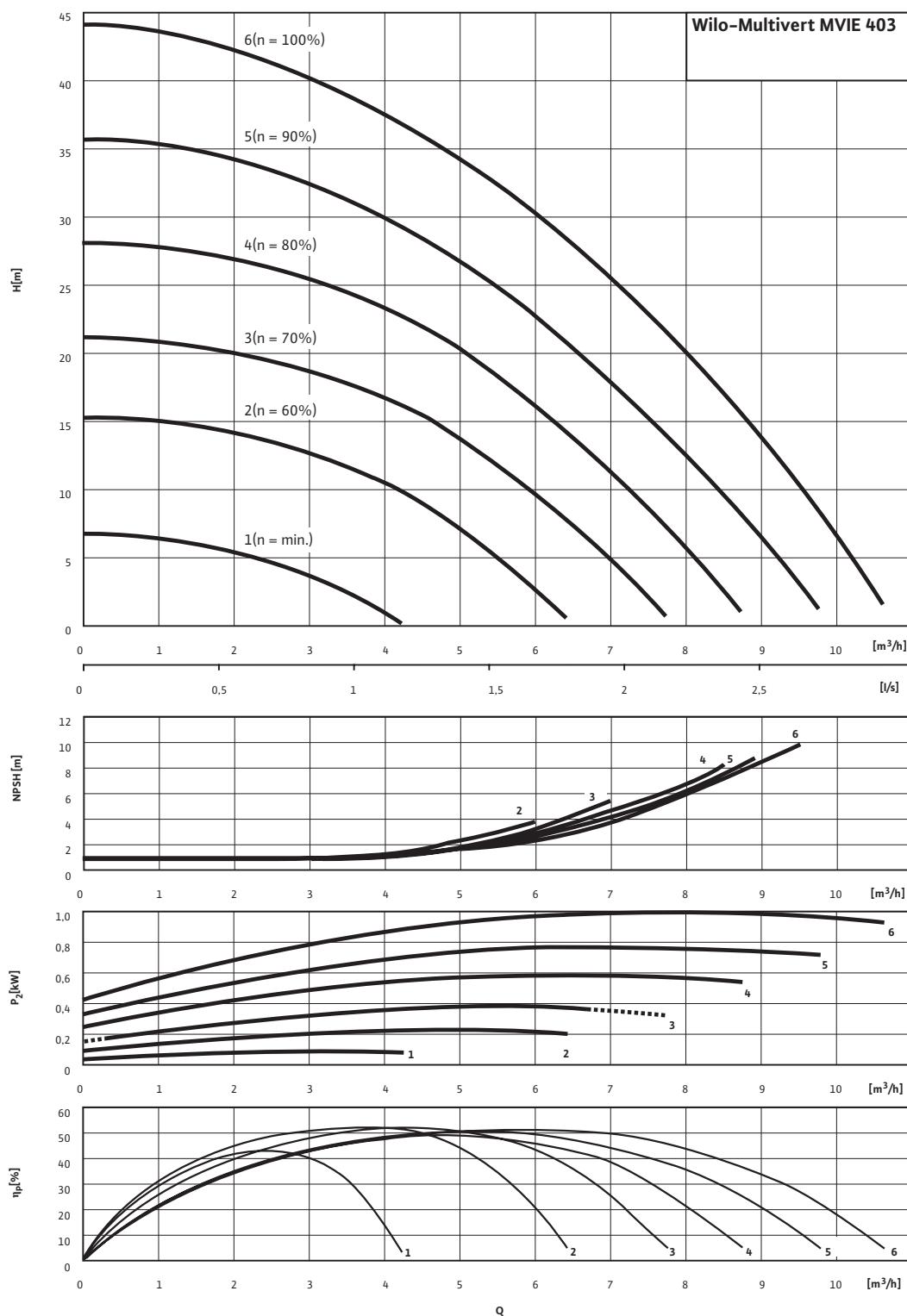
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 403

1~230 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

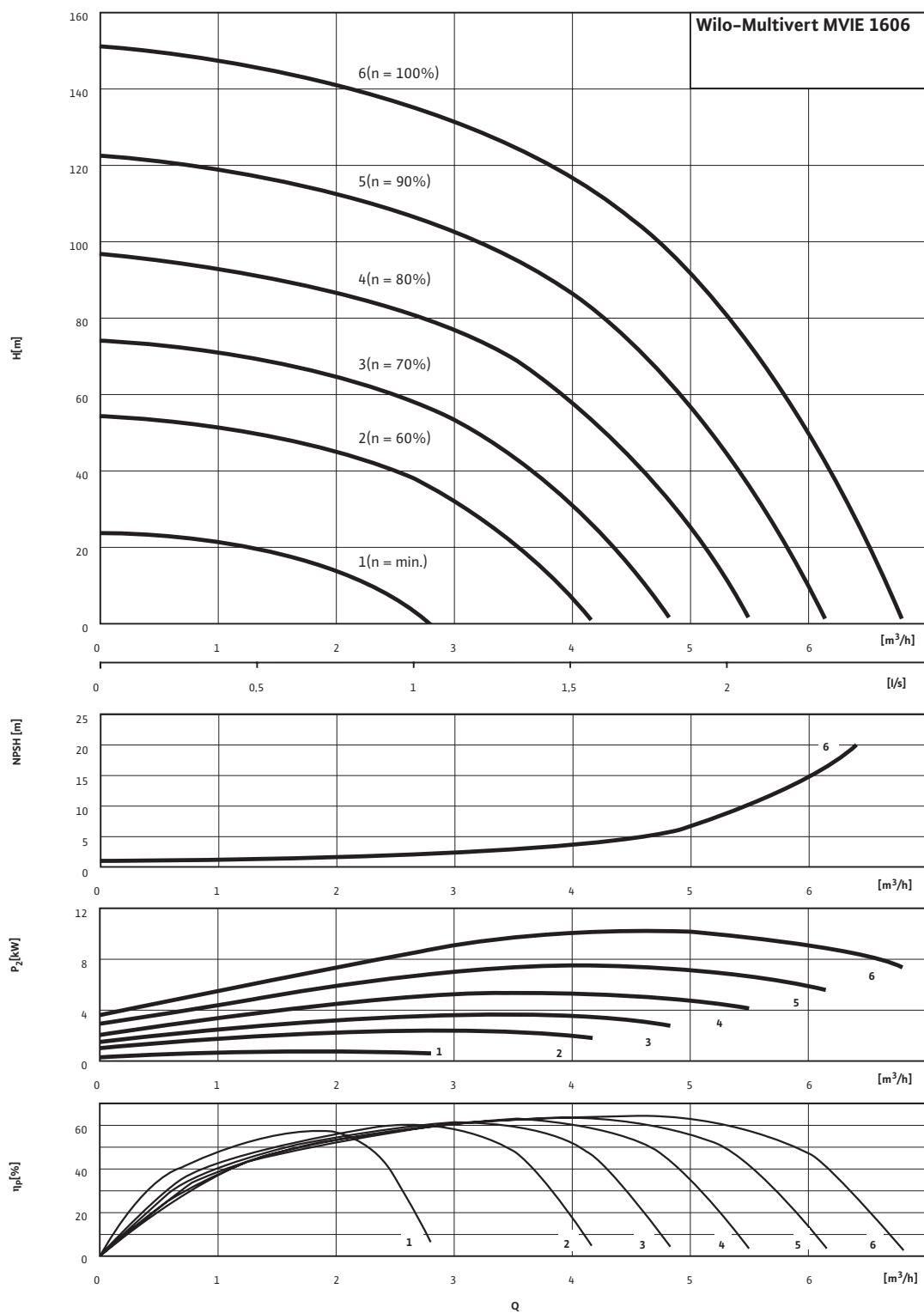
WILO

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 1606

3~400 V



Pump curves in accordance with ISO 9906, class 2

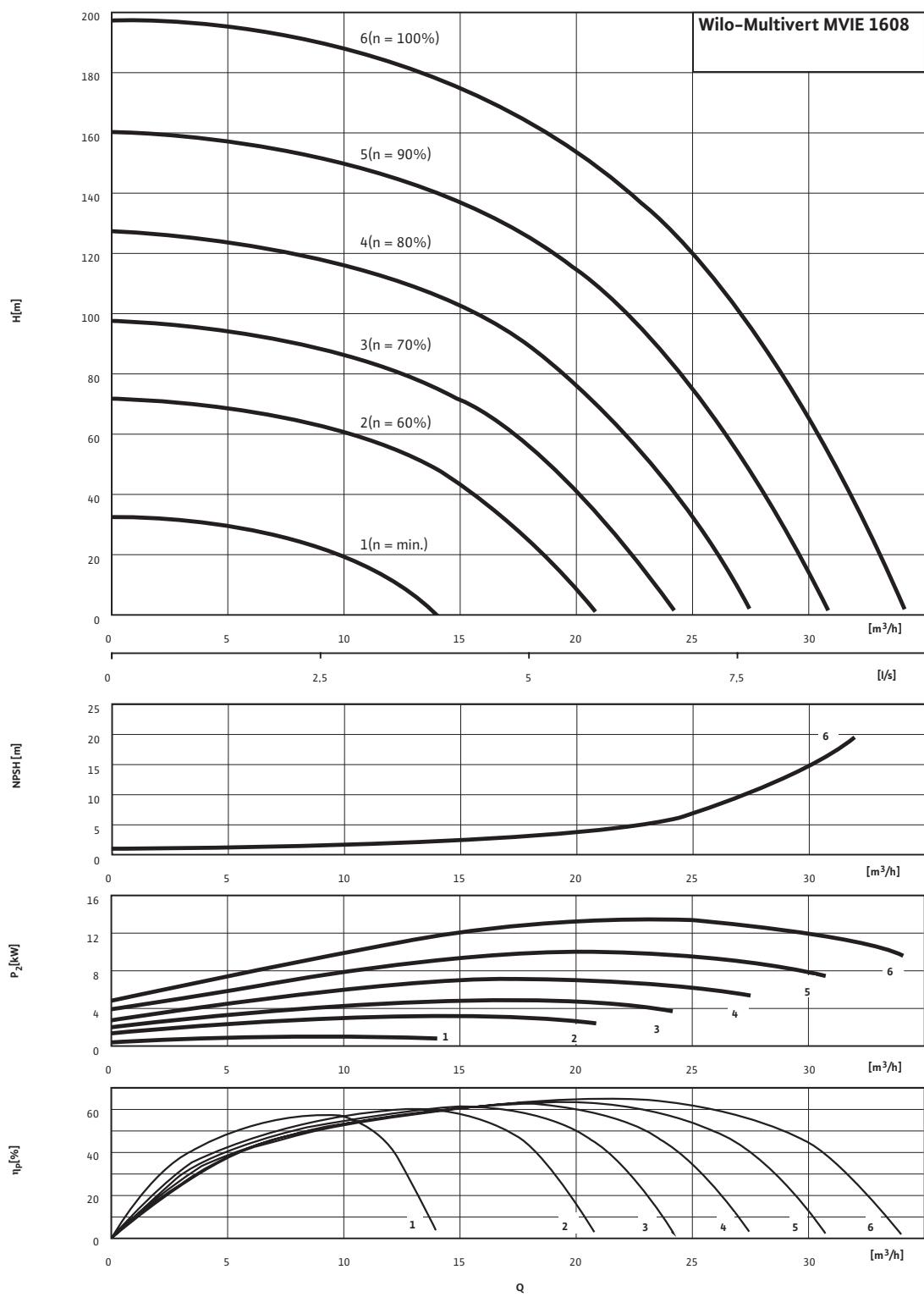
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 1608

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

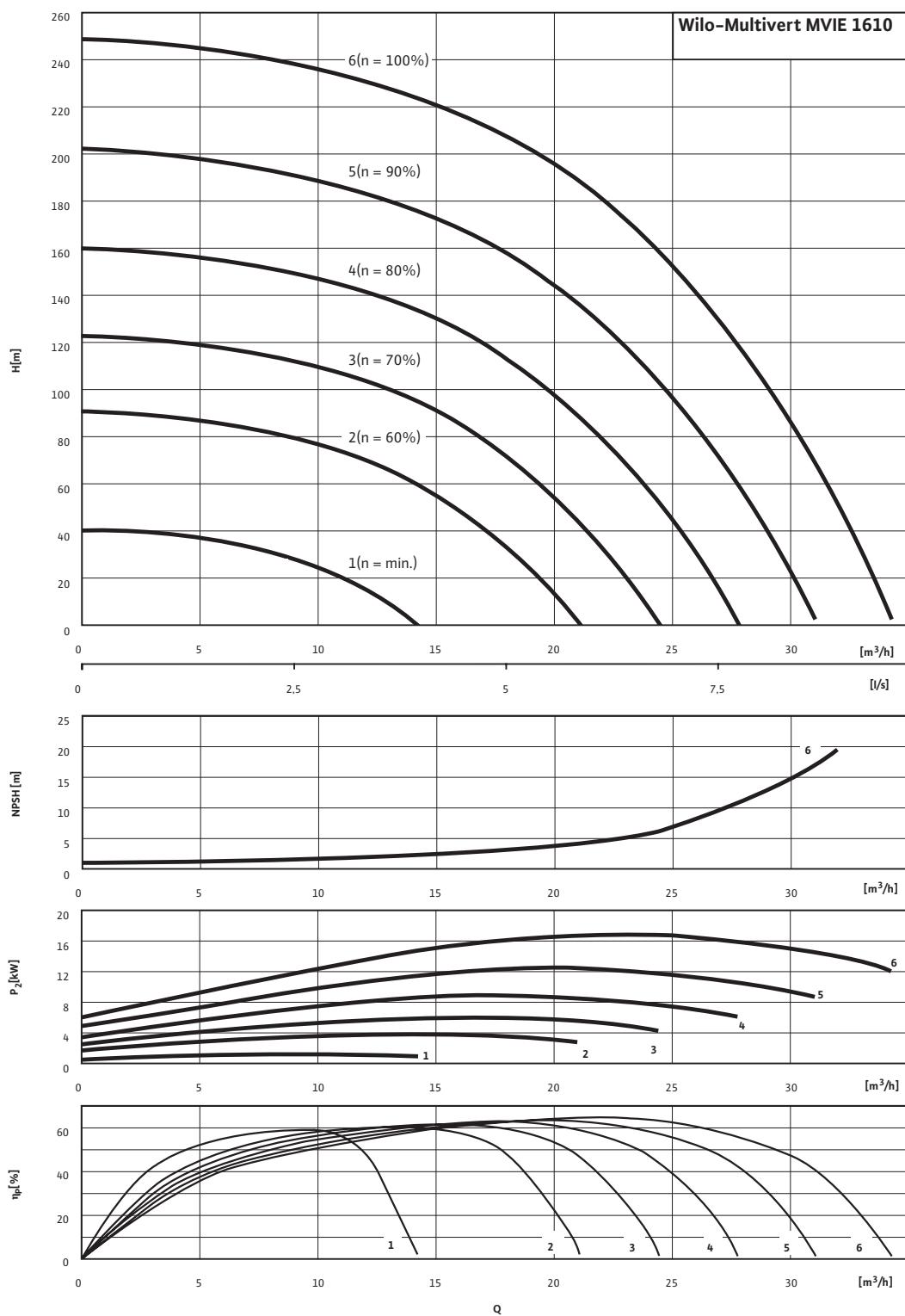
WILO

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 1610

3~400 V



Pump curves in accordance with ISO 9906, class 2

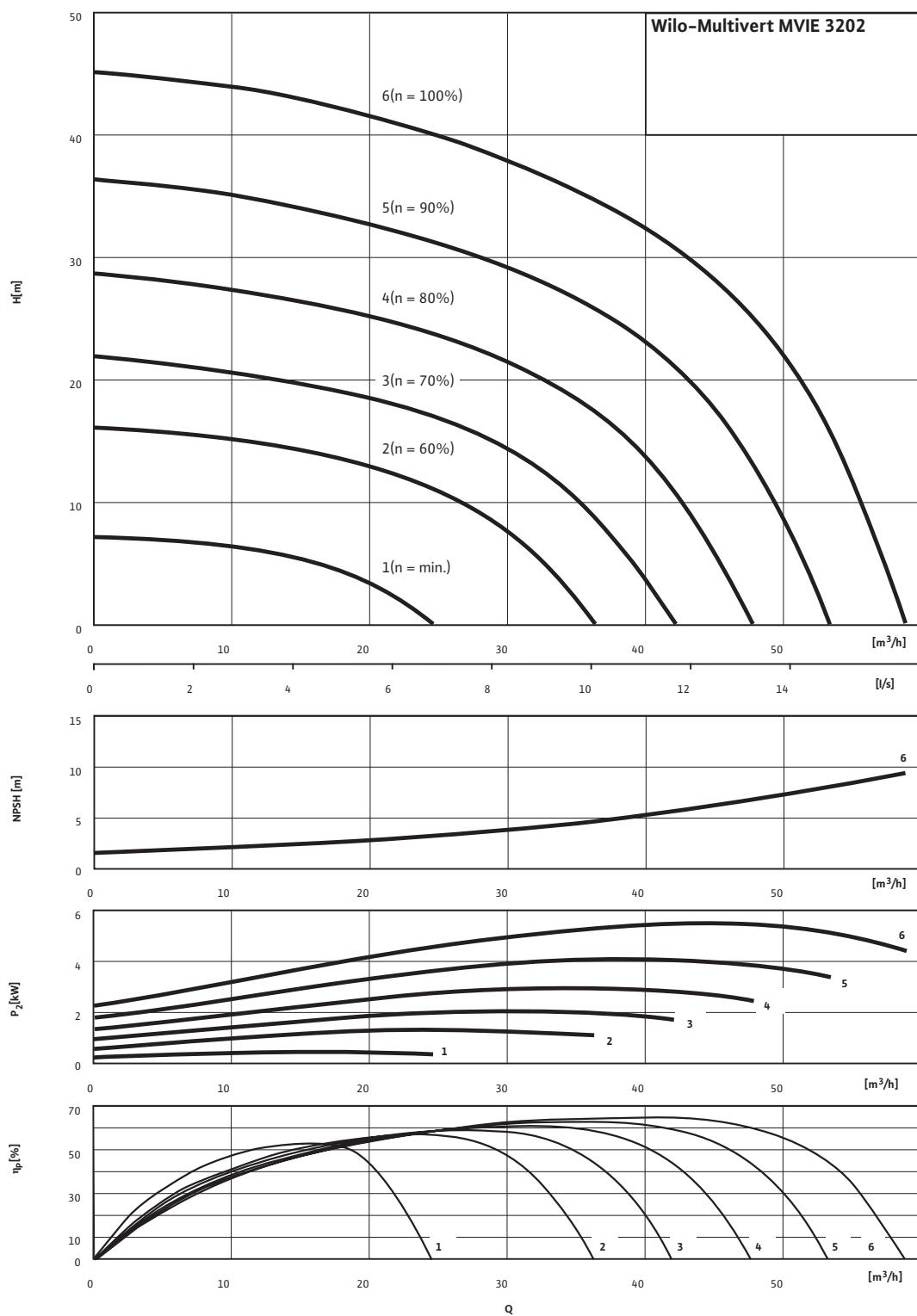
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 3202

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

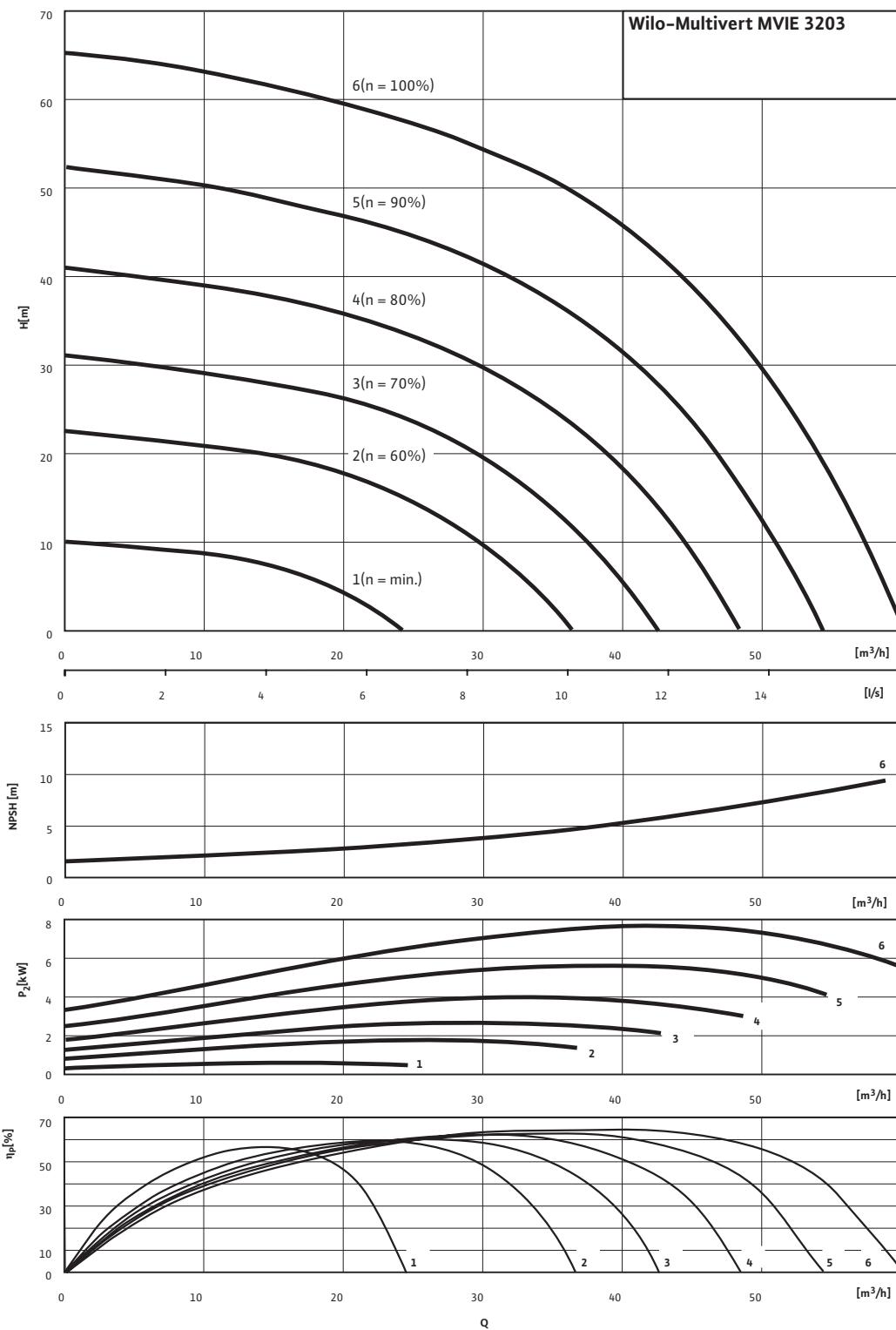
WILO

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 3203

3~400 V



Pump curves in accordance with ISO 9906, class 2

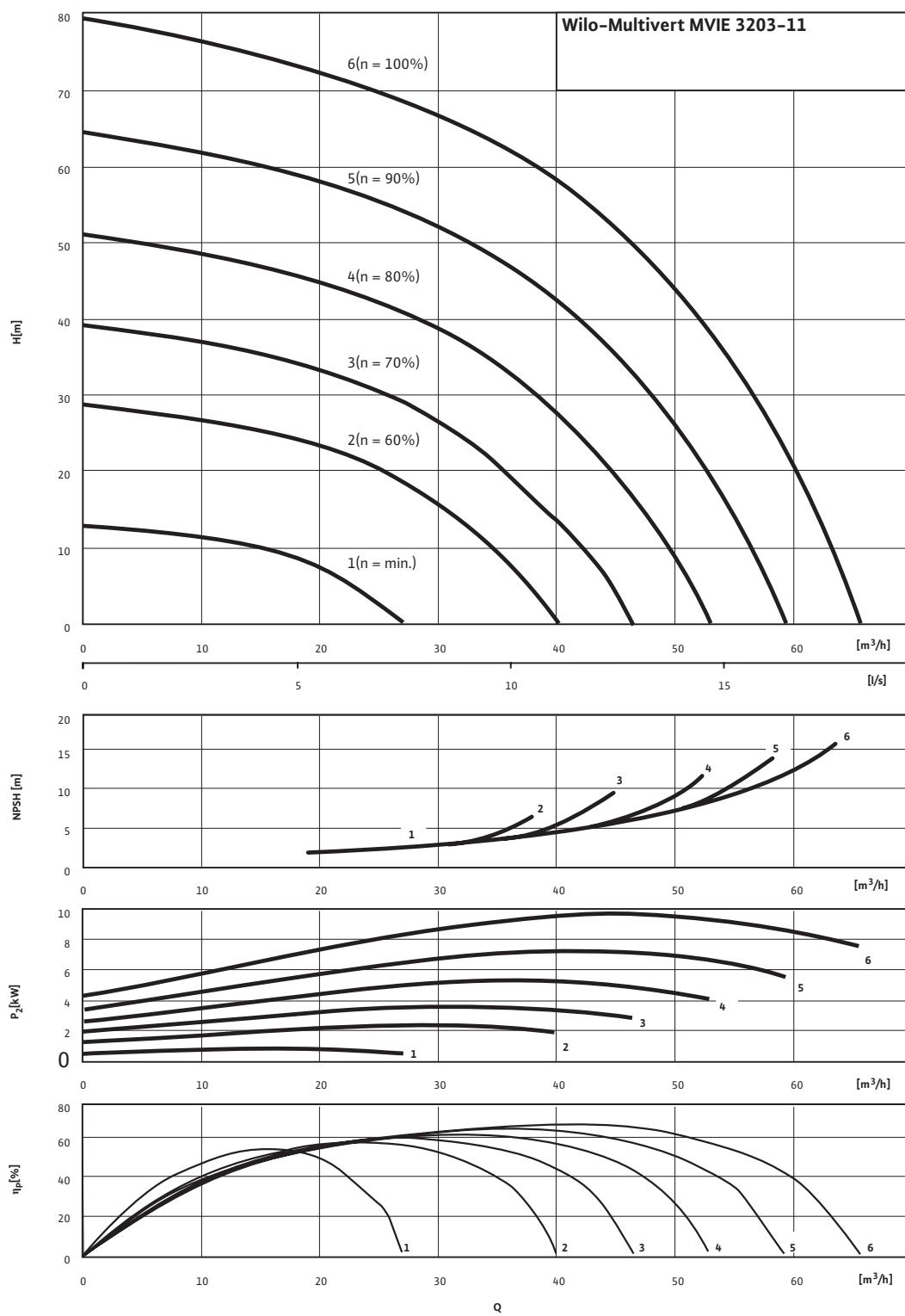
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 3203-11

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

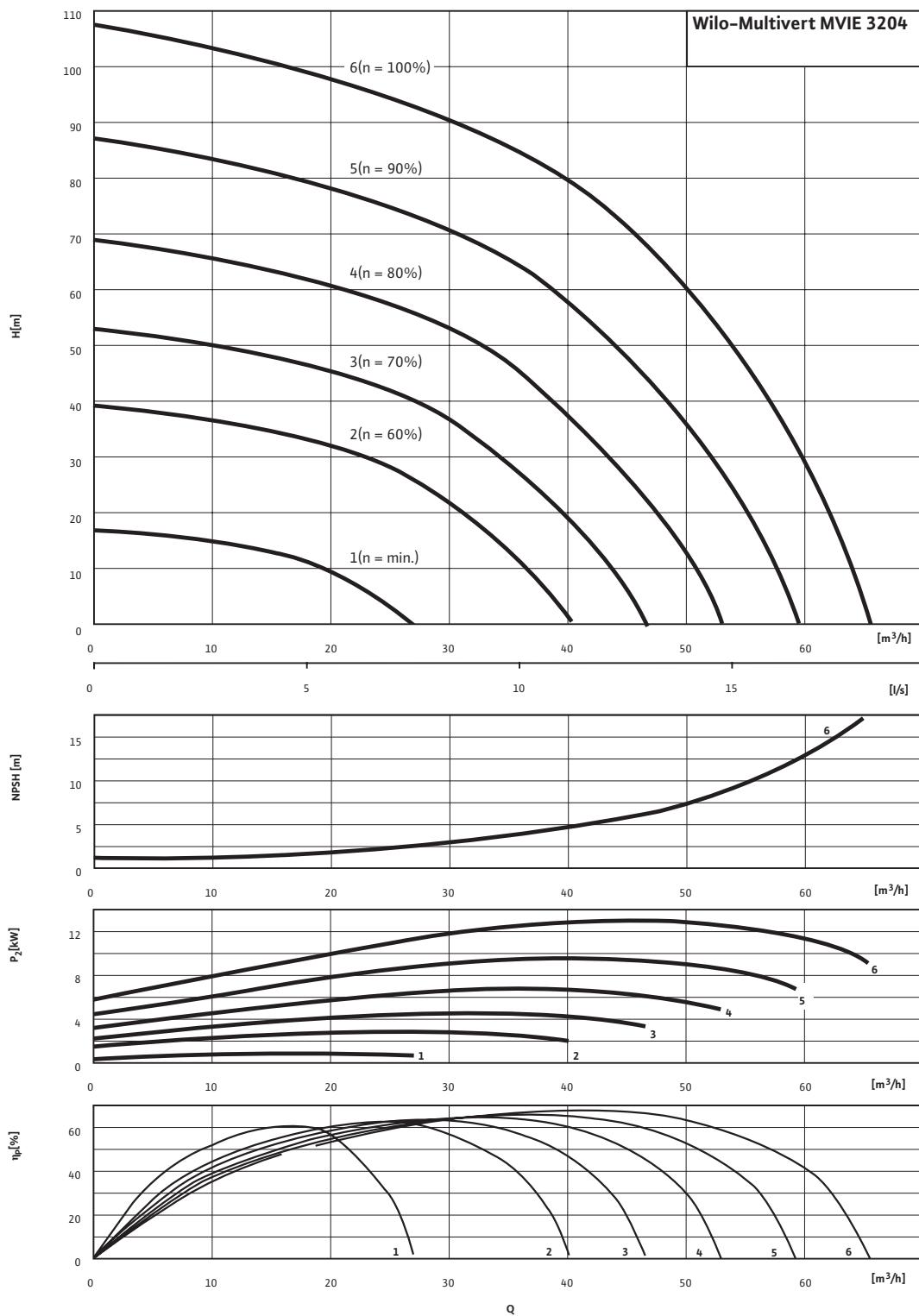
WILO

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 3204

3~400 V



Pump curves in accordance with ISO 9906, class 2

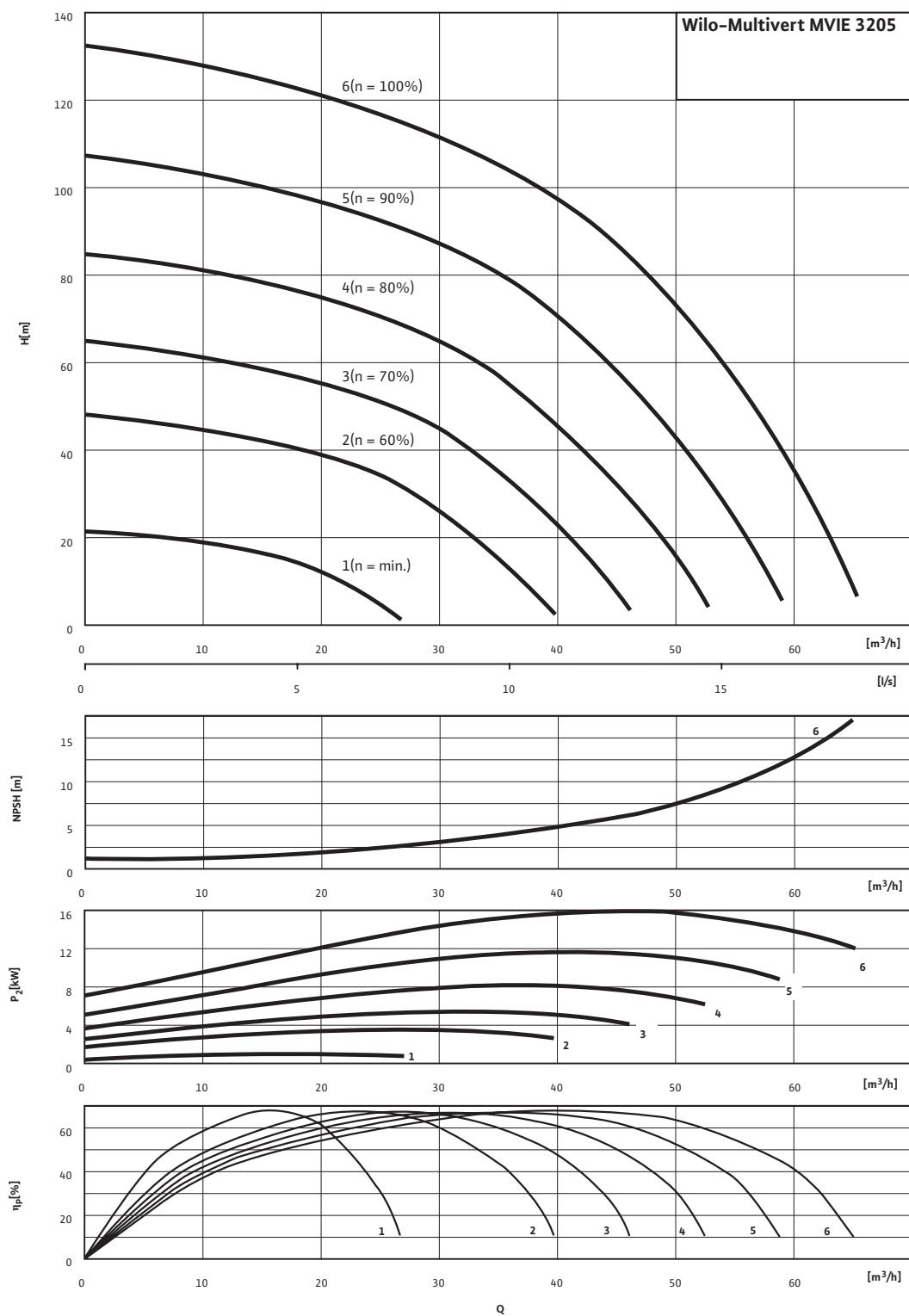
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 3205

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

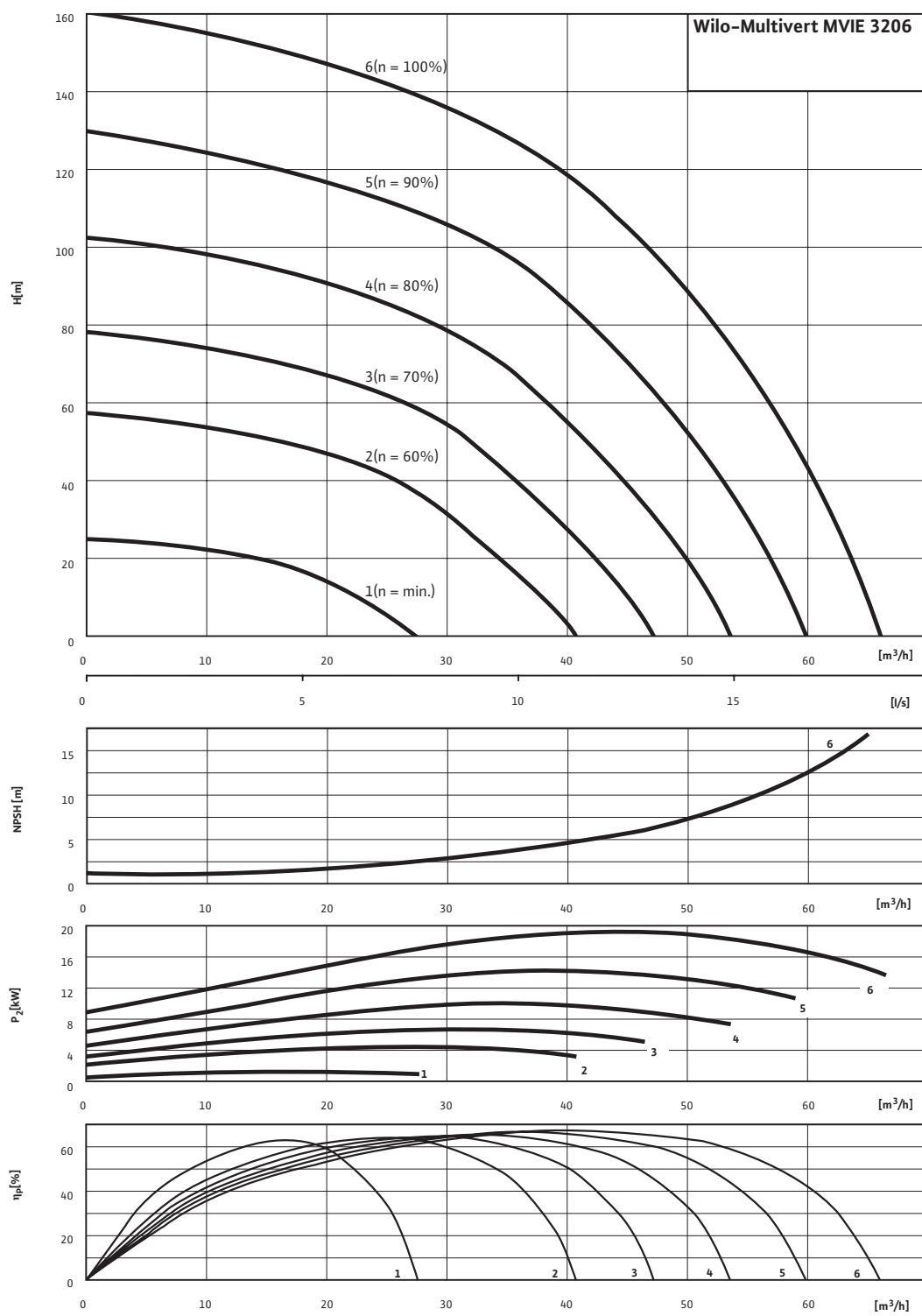
WILO

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 3206

3~400 V



Pump curves in accordance with ISO 9906, class 2

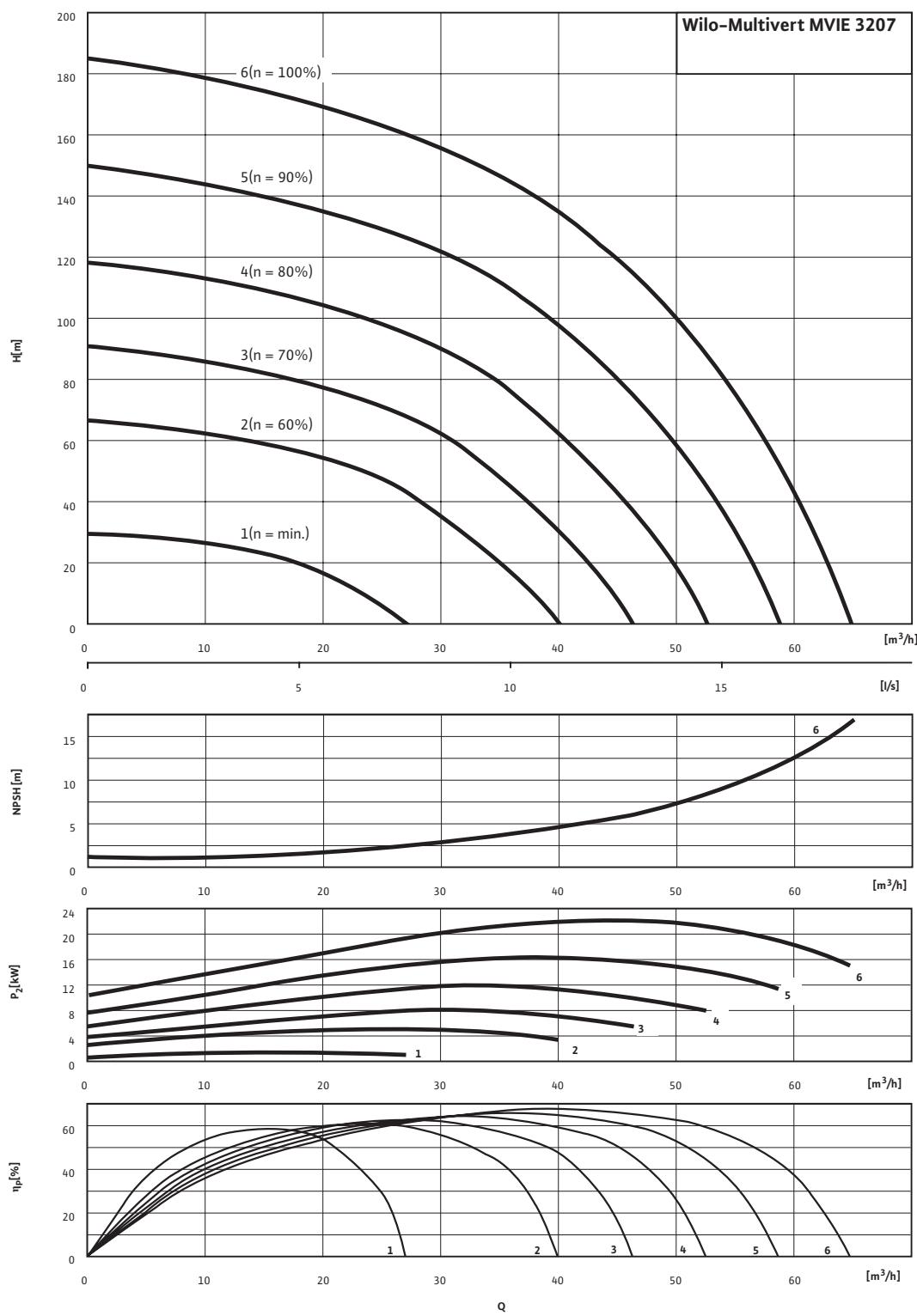
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 3207

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

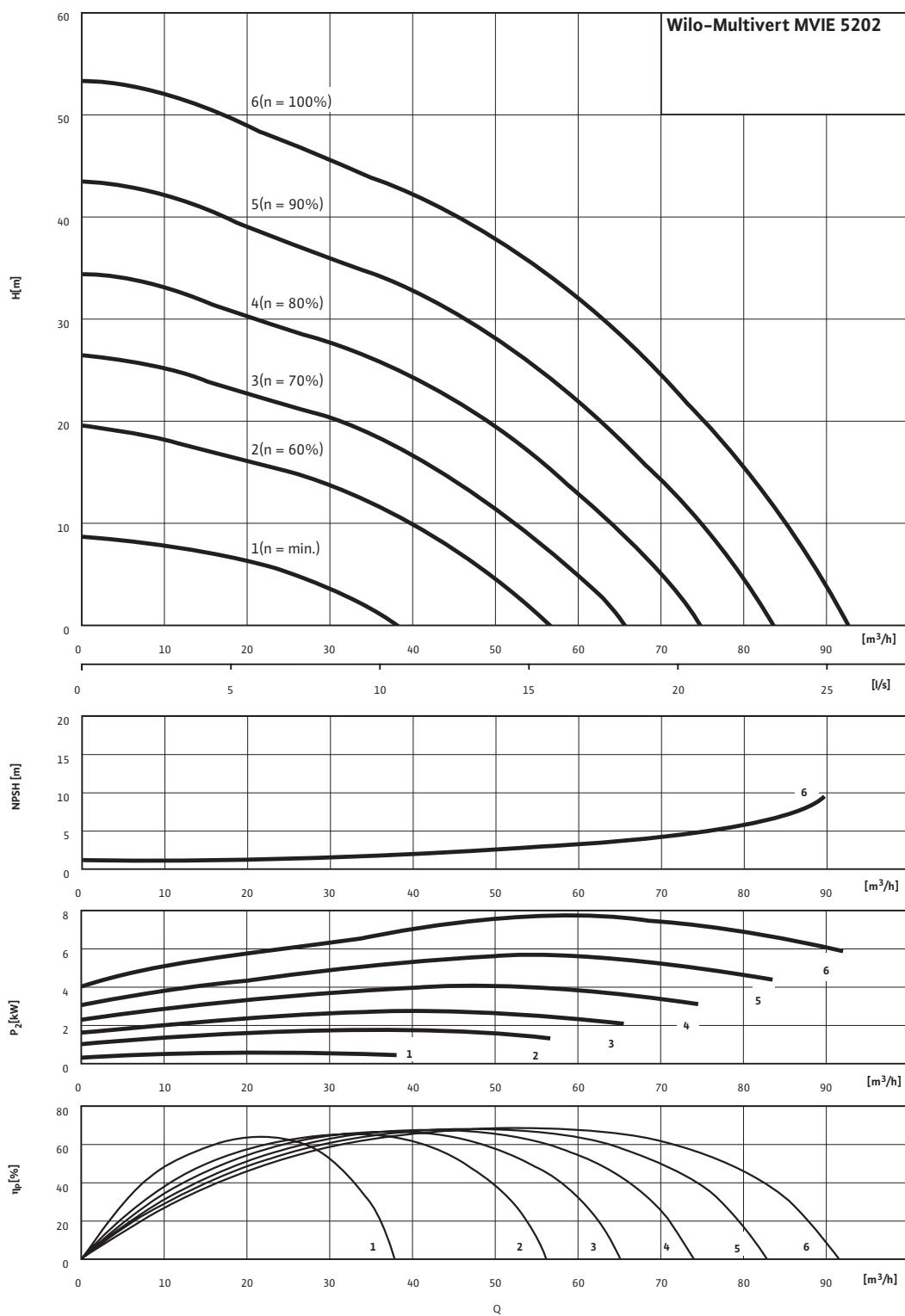
WILO

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 5202

3~400 V



Pump curves in accordance with ISO 9906, class 2

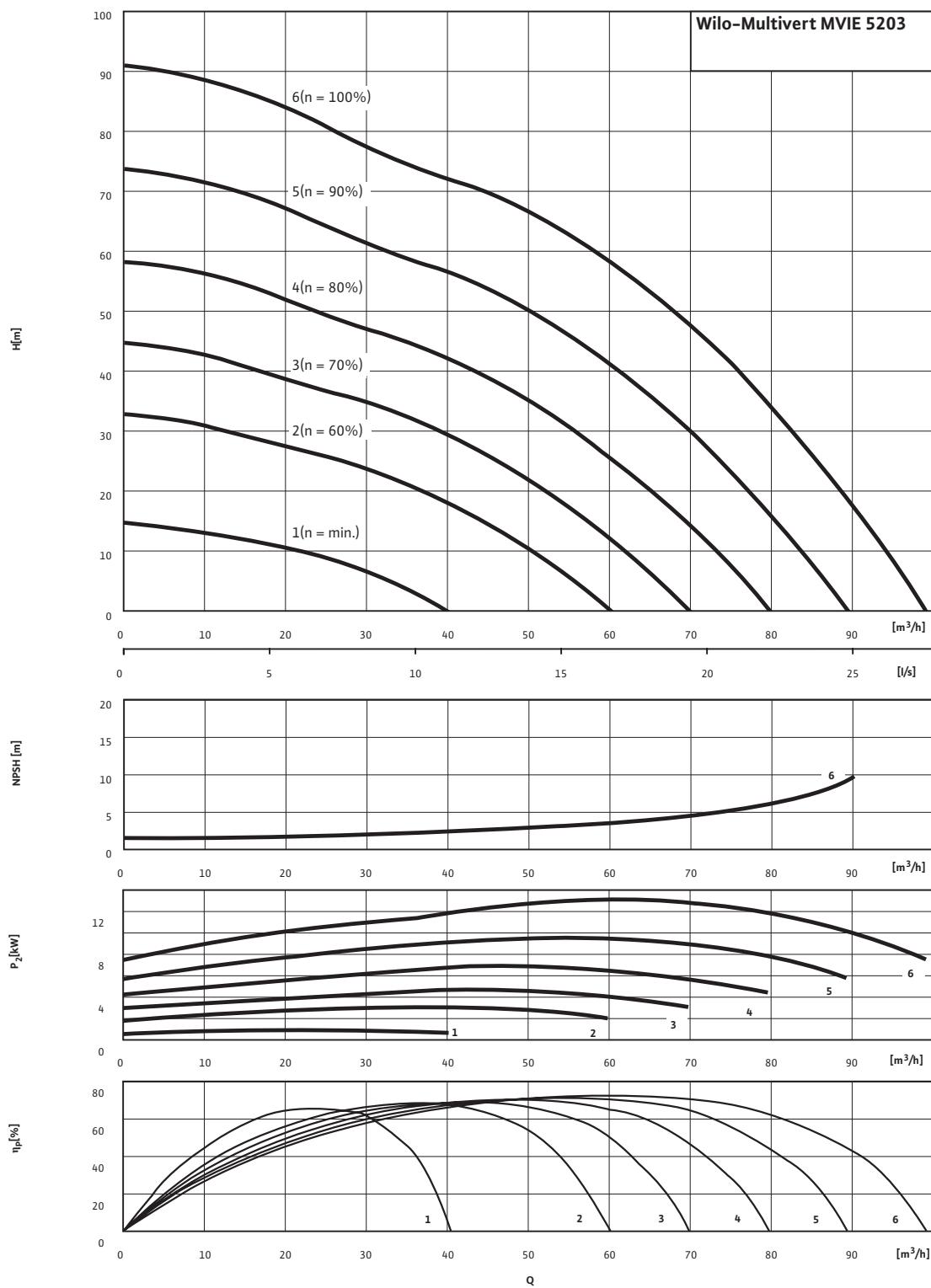
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 5203

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

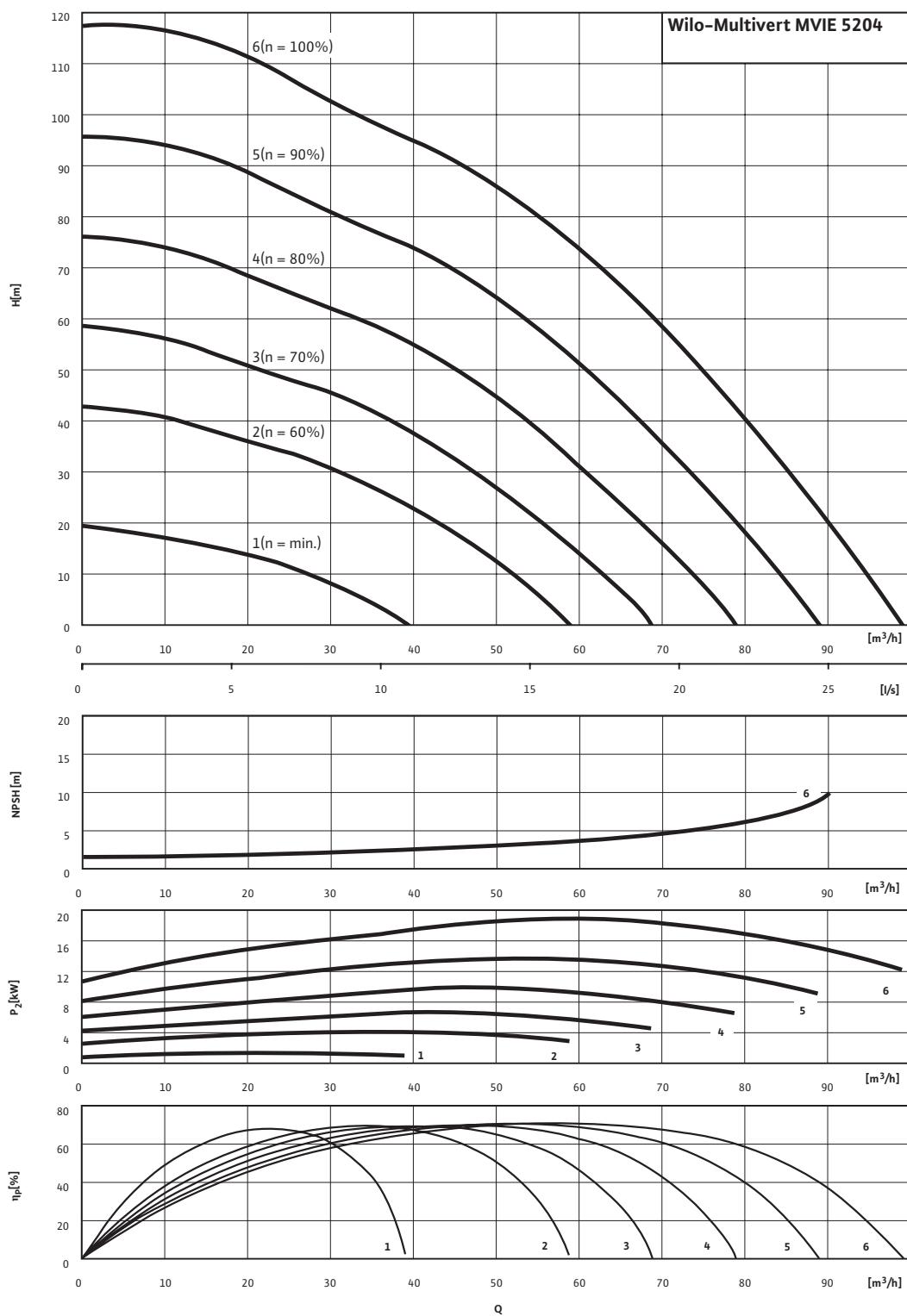
WILO

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 5204

3~400 V



Pump curves in accordance with ISO 9906, class 2

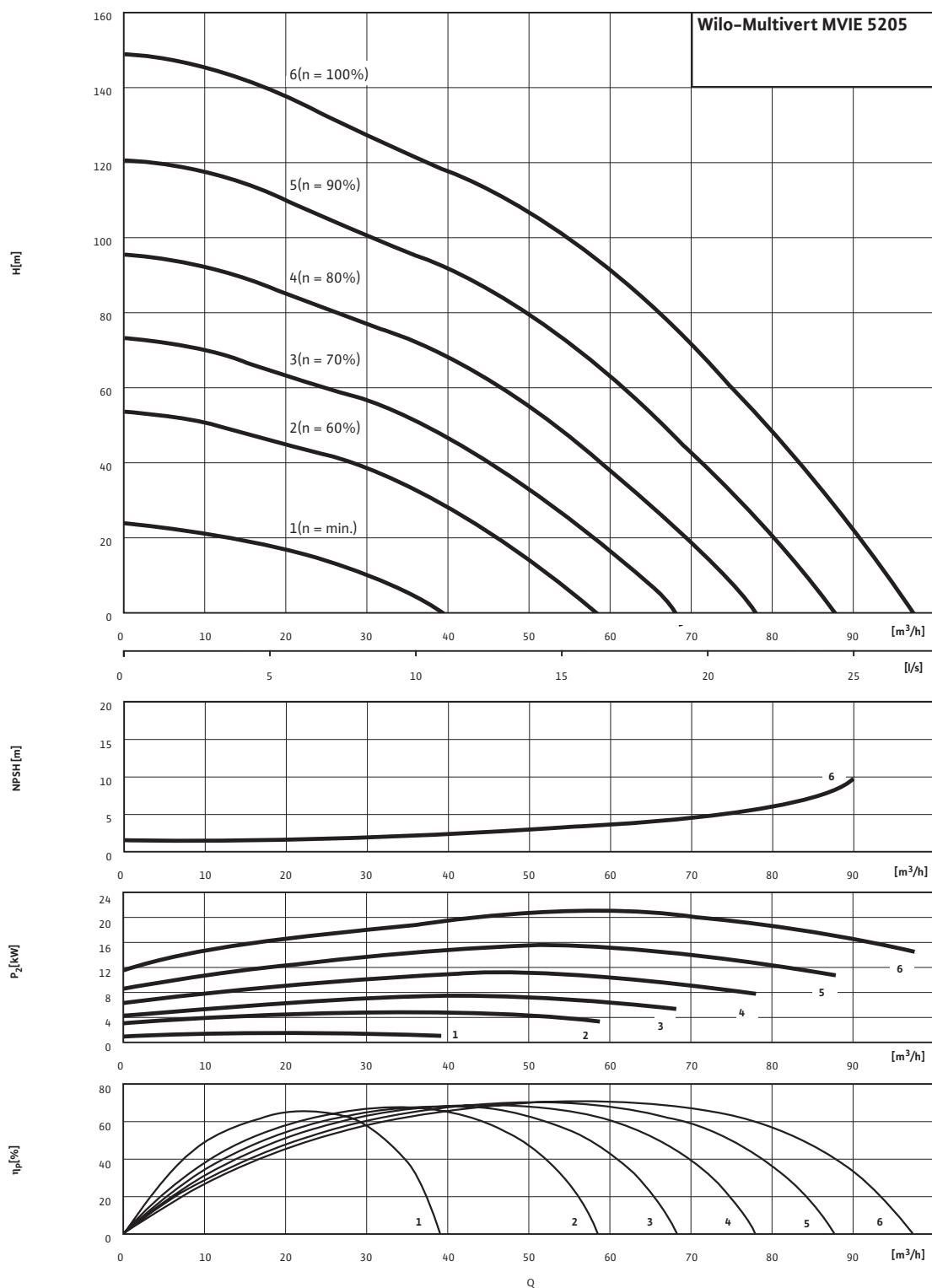
High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Pump curves Wilo-Multivert MVIE

Wilo-Multivert MVIE 5205

3~400 V



Pump curves in accordance with ISO 9906, class 2

High-Pressure Multistage Centrifugal Pumps

WILO

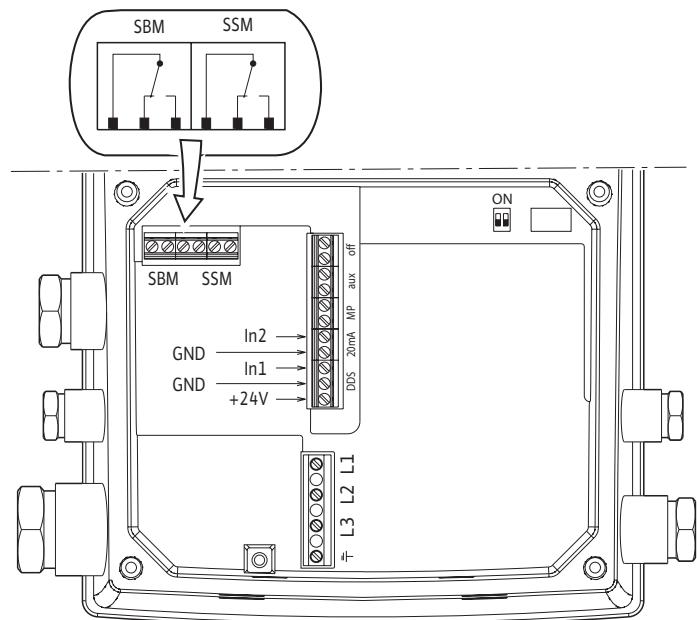
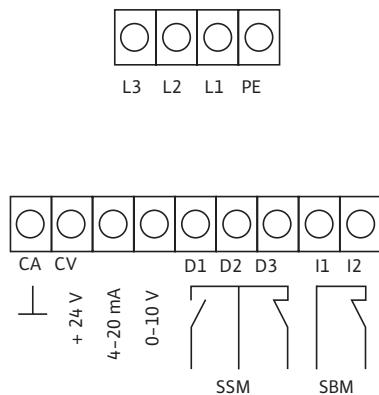
Single-head pumps

Terminal diagram, motor data Wilo-Multivert MVIE

Terminal diagrams

Wilo-Multivert MVIE 414, 808, 811,
Wilo-Multivert MVIE 1605-6, 1606, 1607-6, 1608, 1610

Wilo-Multivert MVIE...-2G



Motor data

Wilo-Multivert ...	Mains frequency [Hz]	Mains voltage [V]	Power consumption P_1 [kW]	Nominal power P_2	Nominal current I_N [A]	
					1~230 V 50 Hz	
					3~400 V 50 Hz	3~400 V 50 Hz
MVIE 204	50	1~230	1.77	1.1	13.2	-
MVIE 204-2G	50	3~400	1.5	1.1	-	3.2
MVIE 208-2G	50	3~400	2.8	2.2	-	6.1
MVIE 214-2G	50	3~400	4.8	4	-	9.8
MVIE 403	50	1~230	1.1	1.1	13.2	-
MVIE 403-2G	50	3~400	1.5	1.1	-	3.2
MVIE 406-2G	50	3~400	2.9	2.2	-	6.2
MVIE 410-2G	50	3~400	4.8	4	-	9.7
MVIE 414	50	3~400	6.8	5.5	-	10.8
MVIE 803-2G	50	3~400	2.6	2.2	-	5.7
MVIE 806-2G	50	3~400	5	4	-	10.1
MVIE 808	50	3~400	6.8	5.5	-	10.8
MVIE 811	50	3~400	9.3	7.5	-	14.8
MVIE 1602-6-2G	50	3~400	2.8	2.2	-	6.1
MVIE 1603-6-2G	50	3~400	4.5	4	-	9.2
MVIE 1605-6	50	3~400	6.8	5.5	-	10.8
MVIE 1606	50	3~400	11.9	11	-	19.3
MVIE 1607-6	50	3~400	9.3	7.5	-	14.8
MVIE 1608	50	3~400	15.5	15	-	27.8
MVIE 1610	50	3~400	19.8	18.5	-	31.9

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Terminal diagram, motor data Wilo-Multivert MVIE

Motor data						
Wilo-Multivert ...	Mains frequency [Hz]	Mains voltage [V]	Power consumption P_1 [kW]	Nominal power P_2	Nominal current I_N [A]	
					1~230 V 50 Hz	3~400 V 50 Hz
MVIE 3202	50	3~400	6.8	5.5	—	10.8
MVIE 3203	50	3~400	9.3	7.5	—	14.8
MVIE 3203-11	50	3~400	11.6	11	—	18.6
MVIE 3204	50	3~400	15.3	15	—	24.4
MVIE 3205	50	3~400	18.8	18.5	—	30.3
MVIE 3206	50	3~400	22.2	22	—	35.9
MVIE 3207	50	3~400	25.5	22	—	40.8
MVIE 5202	50	3~400	9.3	7.5	—	14.8
MVIE 5203	50	3~400	15.6	15	—	25
MVIE 5204	50	3~400	20.3	18.5	—	32.7
MVIE 5205	50	3~400	24.5	22	—	38.9

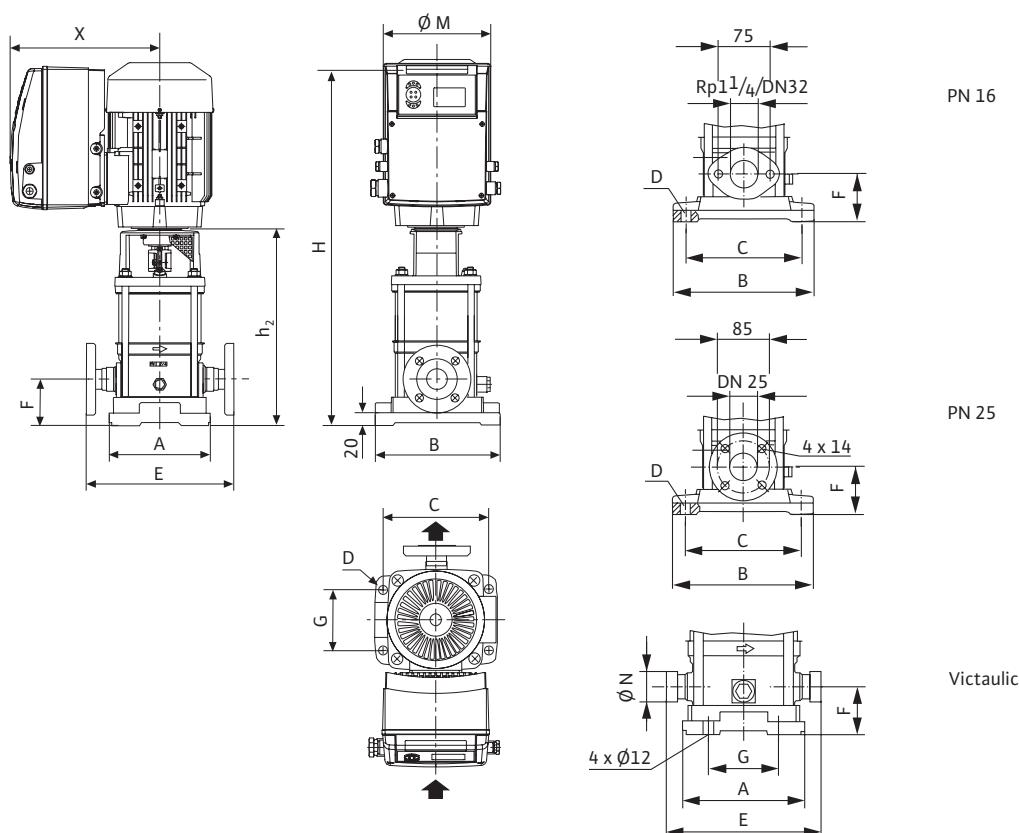
High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Dimensions, weights Wilo-Multivert MVIE

Dimension drawing



Dimensions, weights – Versions PN 16

Wilo-Multivert...	A	B	C	D	E ¹⁾	F	G	H	h ₂	Ø M	X	Weight ²⁾
	[mm]											[kg]
MVIE 204	157	212	180	4x12	204	50	100	598.5	330.5	170	205	26.8
MVIE 204-2G	157	212	180	4x12	204	50	100	600	355	155	237	25.3
MVIE 208-2G	157	212	180	4x12	204	50	100	721	437	170	254	37.2
MVIE 403	157	212	180	4x12	204	50	100	573.5	306.5	170	205	25.9
MVIE 403-2G	157	212	180	4x12	204	50	100	552	307	155	237	25.3
MVIE 406-2G	157	212	180	4x12	204	50	100	679	389	170	254	36.5
MVIE 410-2G	157	212	180	4x12	204	50	100	839	495	220	284	53.5
MVIE 803-2G	187	252	215	4x12	250	80	130	664	374	170	254	36.7
MVIE 806-2G	187	252	215	4x12	250	80	130	814	474	220	284	52.8
MVIE 808	187	252	215	4x12	250	80	130	927	553	266	308	78.6
MVIE 1602-6-2G	187	252	215	4x12	250	80	130	659	369	170	254	38.0
MVIE 1603-6-2G	187	252	215	4x12	250	80	130	794	454	220	184	53.2
MVIE 1606	190	252	215	4x14	300	90	130	1032	582.5	258	335	186.5
MVIE 1605-6	187	252	215	4x12	250	80	130	922	548	266	308	84.3
MVIE 1607-6	187	252	215	4x12	250	80	130	997	623	266	308	96.3

¹⁾ dimension including mating flange (2 pcs. à 25 mm)

²⁾ without packaging

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Dimensions, weights Wilo-Multivert MVIE

Dimensions, weights - Versions PN 16												
Wilo-Multivert...	A	B	C	D	E ¹⁾	F	G	H	h ₂	Ø M	X	Weight ²⁾
	[mm]											[kg]
MVIE 3202	239	235	195	4x14	320	105	195	834	460	266	308	113.6
MVIE 3203	239	235	195	4x14	320	105	195	880	506	266	308	126.1
MVIE 3203-11	239	235	195	4x14	320	105	195	985.5	536	258	335	186.5
MVIE 3204	239	235	195	4x14	320	105	195	1043	582	313	365	206.0
MVIE 3205	239	235	195	4x14	320	105	195	1173	674	313	350	256.5
MVIE 5202	260	260	220	4x14	320	105	220	865	491	266	365	126.1
MVIE 5203	260	260	220	4x14	320	105	220	1044	583	313	365	210.0
MVIE 5204	260	260	220	4x14	320	105	220	1143	644	313	350	256.5
MVIE 5205	260	260	220	4x14	320	105	220	1292	767	351	365	292.5

¹⁾ dimension including mating flange (2 pcs. à 25 mm)

²⁾ without packaging

High-Pressure Multistage Centrifugal Pumps

WILO

Single-head pumps

Dimensions, weights Wilo-Multivert MVIE

Dimensions, weights – Versions PN 25

Wilo-Multivert...	A	B	C	D	E	F	G	H	h_2	ϕM	X	Weight ¹⁾
	[mm]											[kg]
MVIE 204	172	212	180	4x12	250	75	100	622.5	355.5	170	205	28.5
MVIE 204-2G	172	212	180	4x12	250	75	100	601	356	155	237	26.6
MVIE 208-2G	172	212	180	4x12	250	75	100	752	462	170	254	38.6
MVIE 214-2G	172	212	180	4x12	250	75	100	950	616	220	284	57.1
MVIE 403	172	212	180	4x12	250	75	100	598.5	331.5	170	205	28.2
MVIE 403-2G	172	212	180	4x12	250	75	100	577	332	155	237	26.6
MVIE 406-2G	172	212	180	4x12	250	75	100	704	414	170	254	37.9
MVIE 410-2G	172	212	180	4x12	250	75	100	860	520	220	284	54.7
MVIE 414	172	212	180	4x12	250	75	100	1009	635	266	308	82.1
MVIE 803-2G	187	252	215	4x12	250	80	130	664	374	170	254	37.1
MVIE 806-2G	187	252	215	4x12	250	80	130	814	474	220	284	53.2
MVIE 808	187	252	215	4x12	280	80	130	1028	654	266	308	78.4
MVIE 811	187	252	215	4x12	280	80	130	1047	673	266	308	89.9
MVIE 1602-6-2G	187	252	215	4x12	250	80	130	659	369	170	254	38.0
MVIE 1603-6-2G	187	252	215	4x12	250	80	130	794	454	220	184	53.2
MVIE 1605-6	187	252	215	4x12	300	90	130	922	548	266	308	84.3
MVIE 1606	190	252	215	4x14	300	90	130	1032	582.5	258	335	186.5
MVIE 1607-6	187	252	215	4x12	300	90	130	997	623	266	308	96.3
MVIE 1608	190	252	215	4x14	300	90	130	1112.5	651.5	313	365	208.5
MVIE 1610	190	252	215	4x14	300	90	130	1219.5	720.5	313	350	254.5
MVIE 3203-11	260	260	220	4x14	320	120	220	1000.5	551	258	335	193.5
MVIE 3204	260	260	220	4x14	320	120	220	1058	597	313	365	213.0
MVIE 3205	260	260	220	4x14	320	120	220	1188	689	313	350	262.0
MVIE 3206	260	260	220	4x14	320	120	220	1214	689	351	365	299.5
MVIE 3207	260	260	220	4x14	320	120	220	1357	832	351	365	320.0
MVIE 5203	260	260	220	4x14	320	105	220	1044	583	313	365	210.0
MVIE 5204	260	260	220	4x14	320	105	220	1143	644	313	350	256.5
MVIE 5205	260	260	220	4x14	320	105	220	1292	767	351	365	292.5

¹⁾ without packaging

High-Pressure Multistage Centrifugal Pumps

Single-head pumps

Dimensions, weights Wilo-Multivert MVIE

Dimensions, weights – Versions PN 25 Victaulic													
Wilo-Multivert...	A	B	C	D	E	F	G	H	h2	Ø M	Ø N	X	Weight ¹⁾
	[mm]												[kg]
MVIE 204	172	212	180	4x12	210	50	100	598	331	170	42.4	205	28.5
MVIE 204-2G	172	212	180	4x12	210	50	100	595	355	155	42.4	237	26.6
MVIE 208-2G	172	212	180	4x12	210	50	100	721	437	170	42.4	254	38.6
MVIE 214-2G	172	212	180	4x12	210	50	100	950	616	220	42.4	284	57.1
MVIE 403	172	212	180	4x12	210	50	100	574	307	170	42.4	205	26.0
MVIE 403-2G	172	212	180	4x12	210	50	100	547	307	155	42.4	237	26.6
MVIE 406-2G	172	212	180	4x12	210	50	100	673	389	170	42.4	254	37.9
MVIE 410-2G	172	212	180	4x12	210	50	100	854	520	220	42.4	284	54.7
MVIE 414	172	212	100	4x12	210	50	100	1009	635	266	42.4	308	82.1
MVIE 803-2G	187	252	215	4x12	261	80	130	658	374	170	42.4	254	37.1
MVIE 806-2G	187	252	215	4x12	261	80	130	808	474	220	42.4	284	53.2
MVIE 808	187	187	130	4x12	261	80	130	927	553	266	60.3	308	78.4
MVIE 811	187	187	130	4x12	261	80	130	1047	673	266	60.3	308	89.9

¹⁾ without packaging

Multistage high pressure centrifugal pumps

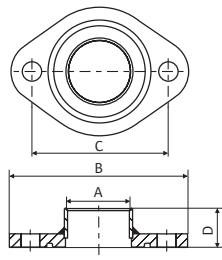
Accessories		
Stainless steel mating flange (oval and round)		172
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Multistage high pressure centrifugal pumps

Accessories

Accessories

Stainless steel mating flange (oval and round)



Stainless steel mating flange for cases in which contact between the fluid and the standard series GG – flanges is not desired.

> Materials:

Mating flange: PN 16 1.4301 (oval)/1.4404 (round)
Screws: St galvanised
Seal: EPDM/Viton

A	B	C	D
G 1	99	75	26 ± 1
G 1 1/4	99	75	27 ± 1
G 1 1/2	130	100	29 ± 1

> Scope of delivery:

The set contains 2 mating flanges and screws. **Please order seals separately!**
Depending on the pumping application: Version EPDM or Version VITON.

> Technical data:

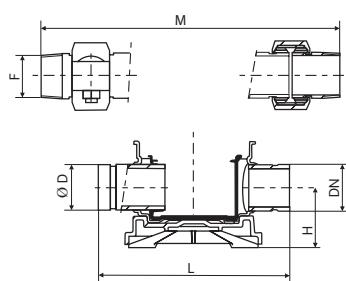
For authorised fluid see resistance list
Operating pressure 16/25 bar (also see pump application limits)
Fluid temperature 50°C/120°C (also see pump application limits)

Steel mating flange (round)

The set consists of 2 pcs. mating flanges as round flanges in the steel material construction for pump series MVI.

no illustration available

Victaulic coupling



Quick-release couplings for pumps with Victaulic – connection ports.

> Materials:

Coupling halves: GG galvanised
Screws: St galvanised
Seal: EPDM/Viton
Union inserts: 1.4435

Pump Type	Ø D	DN	Ø F	L	H	M
MVI/MVIS 200/400	42.2	34.4	R 1 1/4	219	50	320 – 323
MVI/MVIS 800/1600	60.3	52.3	R 2	261	80	378

> Scope of delivery:

The set contains 2 couplings, along with screws, seals and installation Instructions.

> Technical data:

For authorised fluid see resistance list
Operating pressure 16/25 bar (also see pump application limits)
Fluid temperature 50°/120°C

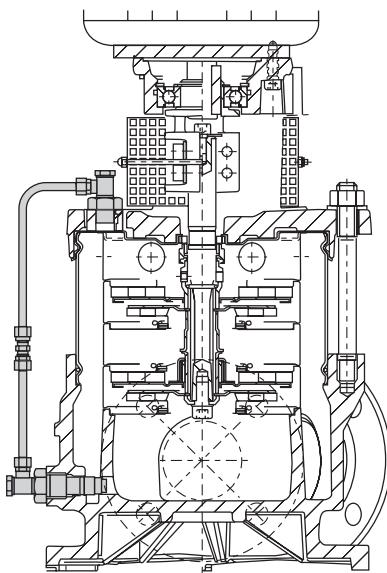
Multistage high pressure centrifugal pumps

WILO

Accessories

Accessories

Bypass line



Utilisation of bypass lines is always expedient in cases where the fluid has a high air and/or oxygen content or is in any other way prone to bubbling.

When a bypass line is used, air and/or gas concentrations in the upper area of the pump hydraulics of MVI pumps – and thus in the area of the mechanical seal – are avoided as much as possible.

> **Typical applications where the use of the bypass installation is beneficial to the user are:**

Condensate conveyance/pressure boosting, where the pump(s) is/are conveying/pumping out of atmospherically ventilated preliminary containers.

> **Materials:**

Screwed connection	nickel-plated MS
Seal	EPDM/Viton
All other components	1.4404

> **Scope of delivery:**

The set includes all of the components required for constructing the complete bypass line.

> **Technical data:**

Operating pressure	maximum /25 bar (also see pump application limits)
Fluid temperature	maximum 120°C
Nominal connection width	MVI 2/4/8/16/32 1/8"

Pressure sensor

For the construction of an automatic pressure-dependent system with speed-controlled pumps of the MVISE, MVIE and MHIE series. The sensor is installed on the discharge side.

Caution:

Please follow the installation instructions in the set-up and operating instructions.

> **Technical data:**

Pressure range	0 – 10 bar
Signal range	4 – 20 mA

> **Options**

Sensors for pressure ranges
0 – 16, 0 – 25, 0 – 40 bar

no illustration available

PTC thermistor triggering device

Tripping unit for switch cabinet installation for all MVI Series pumps that are equipped with PTC thermistor sensors.

no illustration available



Pumpen Intelligenz.

Worldwide the name Wilo is synonymous with the tradition of first class German engineering. Our pumps and pump systems for heating, air conditioning, cooling, water supply and sewage are used in all areas of public life: in commercial buildings, communal facilities, industry as well as in private homes. In close cooperation with our customers, we have over the decades further developed our know-how from pumps and beyond to system competence. This know-how is the basis for solutions which are geared towards meeting the special needs of our customers: that is what we call Pumpen Intelligenz.



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