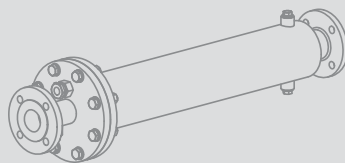
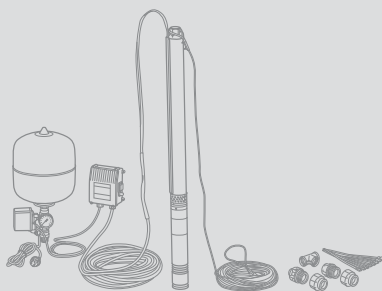


Catalogue Water Supply

Borehole Pumps 3" to 24"

Pumps and Systems for
Building Engineering/Building Services,
Domestic, Municipal and
Industrial Water Supply
























Series
B4
Catalogue

 	 	 	 	 	 	 	 	 	 	 	 	 
B1	B1	B1	B1	B1	B4	A1	A1	A1	C3	A1	C1	C3



Series
A3
Catalogue

 	 	 	 	 	 	 	 	 	 	 	 
B2	A3	A3	B4	on request	C3	C2	C4	C4	C2	C2	A1-A3, B4

Program Overview and Fields of Application

Water supply




Borehole pumps

Pump type	Version					Main field of application					
	Self-priming	Non-self-priming	Submersible motor deep-well	Fixed speed	Speed-controlled						


Building services/domestic water supply


Water supply	Wilo-Sub TWU 3, TWU 3 Basic	-	-	•	•	-	S	-	-	S	S	S
	Wilo-Sub TWU 4	-	-	•	•	-	S/M	-	S/M	S/M	S/M	S/M
	Wilo-Sub TWU 4-QC	-	-	•	•	-	S/M	-	S/M	S/M	S/M	S/M
	Wilo-Sub TWU 3 Plug & Pump System	-	-	•	•	-	S	-	-	S	S	S
	Wilo-Sub TWU 4 Plug & Pump System	-	-	•	•	-	S/M	-	S/M	S/M	S/M	S/M
Secondary hot water supply	 Wilo-Sub TWI 4...-B	-	-	•	•	-	S/M	-	S/M	S/M	S/M	S/M
	 Wilo-Sub TWI 6...-B	-	-	•	•	-	M	-	-	M	M	M
	 Wilo-Sub TWI 8...-B	-	-	•	•	-	-	-	-	M	M	M
Irrigation and drainage	 Wilo-Sub TWU 6...-B	-	-	•	•	-	M/C	-	-	M/C	M/C	M/C
	 Wilo-Sub TWU 8...-B	-	-	•	•	-	M/C	-	-	M/C	M/C	M/C

Water supply municipal/industrial

 Wilo-EMU 6" series	-	-	•	•	-	-	-	-	-	M/C	M/C	M/C
 Wilo-EMU 8" series	-	-	•	•	-	-	-	-	-	M/C	M/C	M/C
 Wilo-EMU 10" series and larger	-	-	•	•	-	-	-	-	-	-	C	C

Special pumps

 Wilo-EMU polder pumps	-	-	•	•	-	-	-	-	-	M/C	M/C	M/C
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 **New in the program or series extension or modification**

Borehole pumps

Main field of application



Legend:

- S** Single- and two-family houses
- M** Multi-family houses
- C** Commercial
- Applicable
- Cannot be used

- Self-sufficient water supply
- Rainwater utilisation (as compact unit 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
- Secondary hot water supply
- Pressure boosting systems
- Fire-extinguishing water supply
- Washing systems
- Industrial applications
- Boiler feed
- Process technology

S	S	-	-	-	-	-	-	-	-	-	-	-	26
S/M	S/M	-	-	-	-	-	S/M	-	S/M	-	-	-	33
S/M	S/M	-	-	-	-	-	S/M	-	S/M	-	-	-	33
S	S	-	-	-	-	-	-	-	-	-	-	-	44
S/M	S/M	-	-	-	-	-	S/M	-	-	-	-	-	46
S/M	C	-	M/C	-	M/C	S/C	S/C	-	C	C	C	-	58
M/C	M/C	-	M/C	-	M/C	M/C	M/C	-	C	C	C	-	58
M/C	M/C	-	M/C	-	C	M/C	M/C	-	C	C	C	-	58
M/C	M/C	-	M/C	-	-	-	-	-	C	-	-	-	168
M/C	M/C	-	M/C	-	-	-	-	-	C	-	-	-	168
M/C	M/C	-	-	-	M/C	M/C	M/C	-	-	C	-	-	214
M/C	M/C	-	-	-	M/C	M/C	M/C	M/C	-	-	-	-	262
C	C	C	-	-	C	C	C	-	-	C	C	-	376
C	C	-	-	-	C	C	-	C	-	C	C	C	464

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
General Notes and Abbreviations

Abbreviations and what they mean

Abbreviation	Meaning
1/min	Revolutions per minute (rpm)
1~	1-phase alternating current
3~	3-phase alternating current
-A	Float switch attached
Autopilot	Automatic adjustment of pump performance during setback phases, e.g. boiler setback operation over-night
BA	Building automation
Cap	Capacitors
Control input 0 - 10 V	Analogue input for external control of functions
D	Direct activation
°d H	Degree of German water hardness, unit for assessing water hardness
DM	3-phase AC motor
DN	Nominal diameter of the flange connection
Δp	Pressure loss
$\Delta p-c$	Control mode for constant differential pressure
$\Delta p-T$	Control mode for differential-pressure control as a function of fluid temperature
$\Delta p-v$	Control mode for variable differential pressure
ΔT	Control mode for differential temperature
ECM technology	Electronically commutated motor with new wet rotor encapsulation, newly developed glandless drive concept for high-efficiency pumps
EM	1-phase AC motor
EnEV	German Energy Savings Ordinance [Energieeinsparverordnung (EnEV)]
Ext. Min	Control input "Overriding Min", e.g. for setback operation without Autopilot
Ext. Off	Control input "Overriding Off"
GRD	Mechanical seal
GTW	Special cast iron: white malleable cast iron
H	Delivery head
Hz	Range of authorised usage for sprinkler pumps
I_A	Start-up current
IF	Interface
I_N	Rated current
Installation	H = horizontal, V = vertical
Int. MS	Internal motor protection: Pumps with internal protection against unacceptably high winding temperatures
IR	Infrared interface
I_w	Current consumption for power requirements of the shaft P_w
KTW	Authorisation for products with plastics, for utilisation in secondary hot water applications

Abbreviation	Meaning
KTL coating	Cataphoretic coating: Paintwork with high adhesive strength for long-lasting corrosion protection
LB	Supply availability (for warehouse items, this refers to fixed-definition standard articles in standard-material versions, 10 m cable, for 400 V and 50 Hz)
LON	Local operating network (open, non-manufacturer-dependent, standardised data bus system in LON-WORKS networks)
maximum \varnothing	Maximum diameter of the unit including cable
MOT	Motor module (drive motor + impeller + terminal box/electronics module) for replacement in the TOP ... series
PLR	Pump central control, Wilo-specific data interface
PN	Pressure class in bar (e.g. PN10 = suitable up to 10 bar)
P_N	Rated motor performance
PT 100	Platinum temperature sensor with a resistance value of 100 Ω at 0 °C
P_w	Power requirements of the pump hydraulics
$Q (= \dot{V})$	Volume flow
Qz	Range of authorised usage for sprinkler pumps
rbc	Blocking current-proof, no motor protection required
RCD	Residual current-operated protective device
RMOT	Spare motor (drive motor + impeller + terminal box/electronic module) for replacement
RV	Non-return valve
RVF	Non-return valve, spring-mounted
-S	Float switch attached
SBM	Run signal or collective run signal
SSM	Fault signal or collective fault signal
TrinkwV 2001	German Drinking Water Ordinance of 2001 (valid from 01.01.2003)
TRS	PTC thermistor sensor
V	Speed
VDI 2035	VDI guideline for the prevention of damage in hot-water heating installations
Wilo-Control	Building automation management with pumps and accessories
WRAS	Water Regulations Advisory Scheme (secondary hot water approval for Great Britain and Northern Ireland)
WSK	Thermal winding contacts (in motor for monitoring winding temperature, full motor protection through additional relay)
Y/ Δ	Star/delta activation

Abbreviations and what they mean

Abbreviation	Meaning
	Operating mode of twin-head pumps: Individual operation of the respective operating pump
	Number of poles on electrical motors: 2-pole motor = approximately 2900 rpm with 50 Hz
	Number of poles on electrical motors: 4-pole motor = approximately 1450 rpm with 50 Hz
	Number of poles on electrical motors: 6-pole motor = approximately 950 rpm with 50 Hz
	Operating mode of twin-head pumps: Parallel operation of both pumps

Material designations and their meaning

Material	Meaning
1.4021	Chromium steel X20Cr13
1.4057	Chromium steel X17CrNi16-2
1.4112	Chromium steel X 90 Cr Mo V 18
1.4122	Chromium steel X39CrMo17-1
1.4301	Chromium-nickel steel X5CrNi18-10
1.4305	Chromium-nickel steel X8CrNiS18-9
1.4306	Chromium-nickel steel X2CrNi19-11
1.4308	Chromium-nickel steel GX5CrNi19-10
1.4401	Chromium-nickel-molybdenum steel X5CrNiMo17-12-2
1.4408	Chromium-nickel-molybdenum steel GX5CrNiMo19-11-2
1.4462	Chromium-nickel-molybdenum steel X2CrNiMoN22-5-3
1.4470	Chromium-nickel-molybdenum steel GX2CrNiMoN22-5-3
1.4517	Chromium-nickel-molybdenum steel with copper additive GX2CrNiMoCuN25-6-3-3
1.4541	Chromium-nickel steel with titanium additive X6CrNiTi18-10
1.4542	Chromium-nickel steel with copper and niobium additives X5CrNiCuNb16-4
1.4571	Chromium-nickel steel with titanium additive X6CrNiMoTi17-12-2
1.4581	Chromium-nickel-molybdenum steel with niobium additive GX5CrNiMoNb19-11-2
Abrasite	Permanent mould casting material for utilisation in strongly abrasive media
Al	Light metal material (aluminium)
Ceram	Ceramic coating; Coating with very great adhesive strength, protection against corrosion and abrasion
Composite	High-strength plastic material

Material	Meaning
EN-GJL	Cast iron (cast iron with lamellar graphite)
EN-GJS	Cast iron (ductile cast iron, also known as spheroidal cast iron)
G-CuSn10	Zinc-free bronze
GfK	Fibreglass plastic
GG	See EN-GJL
GGG	See EN-GJS
Inox	Stainless steel
NiAl-Bz	Nickel-aluminium bronze
Noryl	Fibreglass-reinforced plastic
PE-HD	High-density polyethylene
PP-GF30	Polypropylene, reinforced with 30% fibreglass
PUR	Polyurethane
SiC	Silicone carbide
ST	Steel
V2A (A2)	Materials group, e.g. 1.4301, 1.4306
V4A (A4)	Materials group, e.g. 1.4404, 1.4571

Wear and tear

Pumps or parts of pumps are subject to wear in accordance with the state-of-the-art technology (DIN DIN 31051/DIN-EN DIN-EN 13306). This wear may vary depending on operating parameters (temperature, pressure, speed, 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
- wear ring/wear plate

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

Planning Guide

Fields of application, principle of operation and standards

Fields of application

Wilo submersible motor pumps are designed for the economic, environmentally safe and hygienic pumping of secondary hot water, mineral water, thermal water and industrial water. They are therefore also increasingly being installed, in addition to their traditional field of application – i.e. installation in deep wells – in pits, collection, storage and intermediate containers, as well as in lakes, dams and rivers.

The product portfolio is divided into three segments:

- Building services/domestic water supply: Application in domestic water supplies and for irrigation from deep wells and cisterns; rainwater utilisation and industrial water supplies in the domestic sector; as well as fountains and secondary hot water supply
- Municipal and industrial water supply: Water pumping and pressure boosting from deep wells and cisterns; water drainage in the domestic and professional sector; decentralised water supply; sprinkling and irrigation from deep wells, lakes and rivers; ground water drainage and lowering in street construction and open-pit mining; industrial pumping of cooling and industrial water; sea water utilisation, desalination systems and thermal water, sprinkler and fire extinguishing installations
- Polder pumps: sea water utilisation, particularly in offshore environments

Construction and principle of operation

Submersible motor pumps are centrifugal pumps which, together with the motor, form a compact unit. They pump clean or slightly soiled water, require no maintenance and are distinguished for their high efficiency and long service life. The pump component, single-stage or multistage in single-stream sectional construction, has radial or semi-axial impellers, depending on the required flow rate. The housing has replaceable stationary wear rings in the seal gap area of the impellers. Shielded, fluid-lubricated friction-type bearings are used as bearings for the blades. Discharge port optionally with non-return valve or pressure port with threaded or flange connection.

Single-phase or three-phase squirrel-cage motors with waterproof insulated coils are used as submersible motors. The motor filling is secondary hot water or Wilo-specific factory filling (antifreeze-protected). This is used for cooling the coil and for lubricating the friction-type bearings. The volume compensation while warming and cooling is accomplished by means of a compensating diaphragm in the lower part of the motor. The hydraulic axial thrust of the pump and the rotor weight are absorbed by the axial friction-type bearings. The motor is sealed against the fluid with a mechanical seal (SiC bearing surfaces) and/or with rotary shaft seals at the shaft outlet. The flow feed line connection with the motor is direct and pressure-tight.

Standards

Wilo submersible motor pumps are subject to the following standards:

- DIN EN ISO 9001
The Wilo Quality System ensures that the quality standards as per DIN EN ISO 9001: 2000 are complied with in all operational areas.
- CE conformity
Fulfilment of the technical safety requirements of the EU Machine Directive for pumps and pump aggregates; visible documentation of this property is provided by the CE mark shown on every pump
- KTW authorisation
KTW authorisation has been awarded for unreserved utilisation of plastic components, flow feed line and paintwork in secondary hot water
- ISO 9906
International standards for inspecting the pumps. All of the pumps that Wilo manufactures must complete a test run on the test bench
- VDE
European standard for all electro motors
- VdS certificate
The certificate documents the high quality and reliability of products specially made for fire protection

Water extraction and supply

Water extraction

Water is one of the most important elements in existence. Water is necessary for life to emerge and for life to be maintained. Nevertheless, water is not everywhere to be found and it can usually not be used in its natural form in which it is found. Water extraction is therefore the first order of business and is something that can be accomplished in a wide variety of ways.

Precipitation water

Precipitation water is to be found almost everywhere, depending on local heights of precipitation. Water supplies on this basis are however very uncertain, due to irregular and unpredictable distribution. Another factor to consider is that, because of its composition, rainwater is not immediately suitable as a source of secondary hot water.

Surface water

River water

River water is subjected to the greatest amounts of contamination and is therefore the least suitable source for secondary hot water supplies. It is only when no other water is available that river water should be resorted to.

Because of its extreme quality fluctuations, river water is mainly used as a source of industrial water supplies. The level of contamination is often so high that economic utilisation as water supply is either not possible at all or only under restricted conditions. In order to extract water with low levels of particles in suspension, to achieve a better temperature progression and to simplify the structure of the water treatment process, attempts are made – to the extent permitted by the respective geological formations – to utilise bank filtrate. In addition, river water is increasingly being applied for artificial groundwater replenishment.

Lake water

Low-nutrient, deep lakes with sufficient influent flow are the ones chiefly suitable for lake water extraction. In contrast to flat lakes, lakes with depths starting at around 40 m have a similar temperature equilibrium to that of ground water. The quality of the water depends essentially on the intake of contamination from the feeders of the catchment area and from the shore areas, as well as on the utilisation of the lake (e.g. leisure and recreation). Generally speaking, only the median annual influx is extractable, minus losses, while the volume of the lake has a compensatory effect.

Reservoir dam water

Reservoir dam basins are created by the artificial damming of river valleys. They are able to accumulate large secondary hot water and industrial water reserves while at the same time acting as storage basins for regulating the drainage fluctuations of rivers and as water storage systems for hydroelectric installations (multipurpose reservoir dams). The water level in the storage basin of a reservoir dam generally fluctuates considerably, depending on the extraction of the water for the intended utilisation. The changing water level in the reservoir basins causes is the essential difference between these artificial lakes and natural lakes, which generally speaking exhibit lesser water level fluctuations. The water quality is, as is the case with natural lakes, determined by the quality of the feeders from the catchment area.

Ocean water

The greater part of all rainfall volumes originates in the evaporation that takes place in the atmosphere above the world's oceans, thus lending them decisive significance for water management. The earliest attempts to desalinate ocean water date back to antiquity. Nonetheless, the question of extraction of secondary hot water and industrial water has become ever more urgent in the last 40 years, particularly in the arid and semiarid parts of the world. Fully developed constructions are indeed already available for desalination installations, but the emphasis here is on developing systems that offer even higher performance levels.

Ground water

Ground water from sand strata is the most suitable type for secondary hot water and domestic purposes. It is to be found in the vicinity of river courses, in glacial valleys and sandy deposits left over from the ice ages.

Porous soils (sands, gravels, etc.) have a filtering and thus a purifying effect that is entirely or partially absent from fissured stone formations (contiguous crevassed spaces). When the ground water has spent enough time in porous ground and has flowed for a sufficiently long distance while there, it will taken on the median ground temperature (8 – 12 °C) and will become germ-free. These properties (consistent temperature, good taste, absence of germs, etc.) make the ground water a particularly suitable source of secondary hot water supply.

Organic and inorganic substances are absorbed and dissolved by the ground layers through which the water passes. The salts that are in solution are not eliminated by the filtration action of the soil. If harmful or disruptive limits are exceeded, then the ground water requires conditioning. The dissolving power for gases also goes up with increasing depths and the greater pressure associated with them.

Water conditioning

Once the water has been extracted, it must then be conditioned for the respective requirements. The water passes through a water treatment plant for this purpose. The water conditioning is for the purpose of accommodating the untreated water to the requirements of secondary hot water and process water utilisation.

The water conditioning essentially encompasses two groups of treatments:

- Removal of substances from the water (e.g. purification, sterilisation, removal of iron, softening, desalination)
- Supplementing of substances and adjustment of the parameters of the water (e.g. dosage, adjustment of pH value, ions in solution and conductivity)

The question of which procedure is to be applied depends on the utilisation and the degree of contamination of the water:

- Technical waters (cooling and process water for power plants, chemical procedures, pharmaceuticals) frequently require a very extensive modification of the water properties, e.g. through desalination, demineralised water, reverse osmosis, special dosages, degasification and many other things.
- Statutory specifications (Drinking Water Directive 98/83/EC) and the requirements of the distribution network are authoritative for setting the secondary hot water properties. Secondary hot water can be pre-

Planning Guide

Water extraction and supply

set by mixing waters from a variety of sources in order to achieve uniform quality (e.g. a mixture of bank filtrate and reservoir dam water).

- Bath water in open air and indoor public swimming pools is conditioned in accordance with DIN 19643. Flocculation, filtration and chlorine disinfection are the standard procedures.

Conditioning is often necessary when waters with different compositions are mixed. The pH value in mixed water is frequently shifted thereby to such an extent that the calcite solution capacity (i.e. the capacity of the water to dissolve calcium carbonate) exceeds permissible levels (according to the TrinkwV, the limit value for calcite solution capacity is 5 mg/l). This ability to dissolve calcium carbonate is frequently referred to as the aggressiveness, or more precisely, the "calcium aggressiveness" of the water.

The conditioning of ground water from a sufficiently shielded aquifer is as a rule less complex than that of spring or surface waters.

Removal of iron and removal of manganese are likely the most commonly utilised procedures for conditioning ground water. The question of to what extent chlorination of the ground water is required usually depends on the condition of the pipework. More elaborate procedures are however utilised for the conditioning of surface waters. These frequently include ozoning, flocculation with subsequent sedimentation or filtration and activated carbon filtration for the elimination of absorbable pollutants. These procedures are followed by an obligatory disinfection.

Mechanical, chemical and biological procedures are applied for water conditioning.

Procedures for water conditioning

Process	Installation components	Purpose
Screening	Screening, drum sieve, microsieve	Removal of larger solid substances and floatables
Sedimentation	Grit chamber, settling tank	Removal of smaller floatables, sand, flocculated suspended solids
Filtration	Filters, sand filters	Removal of suspended solids (particles)
Flotation	Flotation basin	Removal of fine dirt particles by blowing in air
Flocculation	Flocculation basin	Removal of colloid substances and fine dirt particles by adding flocculants (discharging the particles) and adjusting the pH value. Can also be in conjunction with a filtration (flocculation filtration).
Precipitation	Precipitation basins and/or precipitation filtration	Precipitation of contraries, e.g. iron or manganese oxides by ventilation and subsequent sedimentation or filtration.
Adsorption	Active carbon filter	Agglomeration of, for example, adsorbable halogenated hydrocarbon compounds (AOX) or dyestuffs
Deacidification	Deacidification installation	Removal of aggressive carbonic acids. Used to prevent corrosion in the pipework.
Softening	Water softener installation	Removal of Ca ²⁺ and Mg ²⁺
Desalination	Desalination unit	Removal of salts, e.g. for turning sea water into secondary hot water and for irrigation
Stripping	Strip basin	Removal by blowing in air/gases. Depending on the vapour pressure, this causes water constituents in solution to be transferred to the gas phase and thus to be removed from the water.
Cooling	Cooling towers, cooling ponds, heat exchangers, etc.	Reduction of temperature in order to satisfy the requirements of subsequent processes or utilisations.
Biochemical processes	Example: Denitrification	Exploitation of biochemical processes. In denitrification, the nitrate content of contaminated untreated water is reduced by adding carbon either underground or in a reactor.
Disinfection	Special basin, additives introduced into the pipework	Sterilisation through the introduction of chlorine or ozone or through UV radiation
Special treatment	Special basin for contaminated sewage	Special treatment of sewage that is contaminated with initially unknown substances or organisms. Examples: Untreated sewage from galvanisation plants or threadworms.

Water extraction and supply

Reservoirs

The water must be placed in intermediate storage after it has been conditioned for the respective application. Storage facilities for secondary hot water or process water are referred to as cisterns or water reservoirs.

Types of reservoirs

A distinction is made between natural and artificial reservoirs. Natural reservoirs can be, for example, oceans and seas, aboveground lakes and rivers or ground water. Artificial reservoirs can be, for example, underground tanks or reservoirs formed by dams.

Underground tanks

The water level of the reservoir is lower than that corresponding to the supply pressure. The water must therefore be pumped up out of the reservoir for supply purposes. Underground tanks are therefore vacuum containers for pumping station installations and are used for compensating between spring water influent flow or preliminary well pumping and raising the water into the mains power supply. In cases of pressure vessel pumping stations, they also assume some of the duties of elevated tanks, such as compensation for consumption fluctuations or the storage of firefighting water.

Storage vessels for firefighting water

Very often, and in the case of small rural communities almost always necessary, is the storage of water for firefighting in special firefighting water storage tanks, e.g. when no central water supply is available or when the water supply in the elevated tank is not sufficient for fighting large-scale fires. Surface water can also be used for filling purposes, since the water is not subject to any special hygienic or technical requirements. Generally speaking, nearby ponds are equipped with the apparatus required for extracting firefighting water or artificial fire-extinguishing ponds (fire ponds) are created. Underground firefighting water containers are on the other hand more expedient in built-up areas.

Elevated tanks

The most common form of water storage and the one to be found with most central water supply systems is in elevated tanks. These are water storage containers in which the water level is higher than the supply area from which the water falls along a natural gradient to flow into the mains power supply. They are used for compensating for consumption fluctuations, for maintaining consistent pressure in the mains power supply, for emergency supplies and for the storage of a water reserve for firefighting purposes, with long-distance lines and with group water supply systems as interim containers and zone containers.

If the elevated tank is set up at an appropriate height, then it also provides the required supply pressure. It is possible to have elevated tanks aligned at different static heads in order to take advantage of different pressure stages (hilly countryside). Tanks are however used not only for water storage but also for pressure reduction; it is primarily in supply networks with large static head differentials that so-called discharge flow-through tanks are utilised, because otherwise the pressure at the lowest point of the water supply network would be too great.

Ground-level container

The water storage vessel is set up at a location favourable in terms of altitude and position, with most of the structure installed underground and covered with earth. This form of elevated tank is frequently preferred, because it is the most economic and reliable type available.

Water tower

Water towers can store only small amounts of water, but nevertheless provide sufficient pressure for the pipeline networks lying below them due to their static head.

If no favourably positioned ground site is available, then water storage is carried out in the vicinity of the supply area in water chambers which are located in the upper part of a tower-like building structure. The water tower is occasionally designed as a water silo, whereby the bottom of the water chamber is the same as the foundation bed. The costs of a water tower are considerably greater than those of a ground-level container (around 5 to 10 times as high). The water level of the storage vessel is therefore generally not positioned as high above the supply area as is the case with ground-level containers, and its volume capacity is kept smaller.

Planning Guide

Well-sinking

Well-sinking is used for the installation of structures for pumping ground water. A cover and a lateral sealing of the pit or of the bore hole vis-à-vis the surface are used to secure the wells against the intrusion of contamination.

The water can be pumped with various pump models, such as submersible motor pumps. Water extraction is based on the plentifulness of the ground water deposits and the performance capacity of the filtration system, which must prevent any flushing out of the ground into the well.

Construction types

Dug well

Manual or mechanical excavation is used to open up a vertical pit down to the body of the ground water. The pit is secured with masonry or finished parts prefabricated with (reinforced) concrete as it is deepened. The flow of the ground water to the well takes place through the bottom of the pit and/or of a vertical filtration system. This procedure is only suitable for lesser depths (generally considerably less than 40 m).

Usually the construction of a dug well proceeds as follows for simple construction with minor depths and individual objects (this work is dangerous and should be performed by a specialist company):

- Concrete pit rings (diameter e.g. 1.000 mm) are used.
- A minor amount of earth is excavated, upon which the first pit ring (without step irons) is placed in exact horizontal position. This first ring can be provided with a steel blade on its underside.
- The earth under the first pit ring is excavated, the pit ring sinks accordingly, additional pit rings can be placed on top of it.

Driven wells

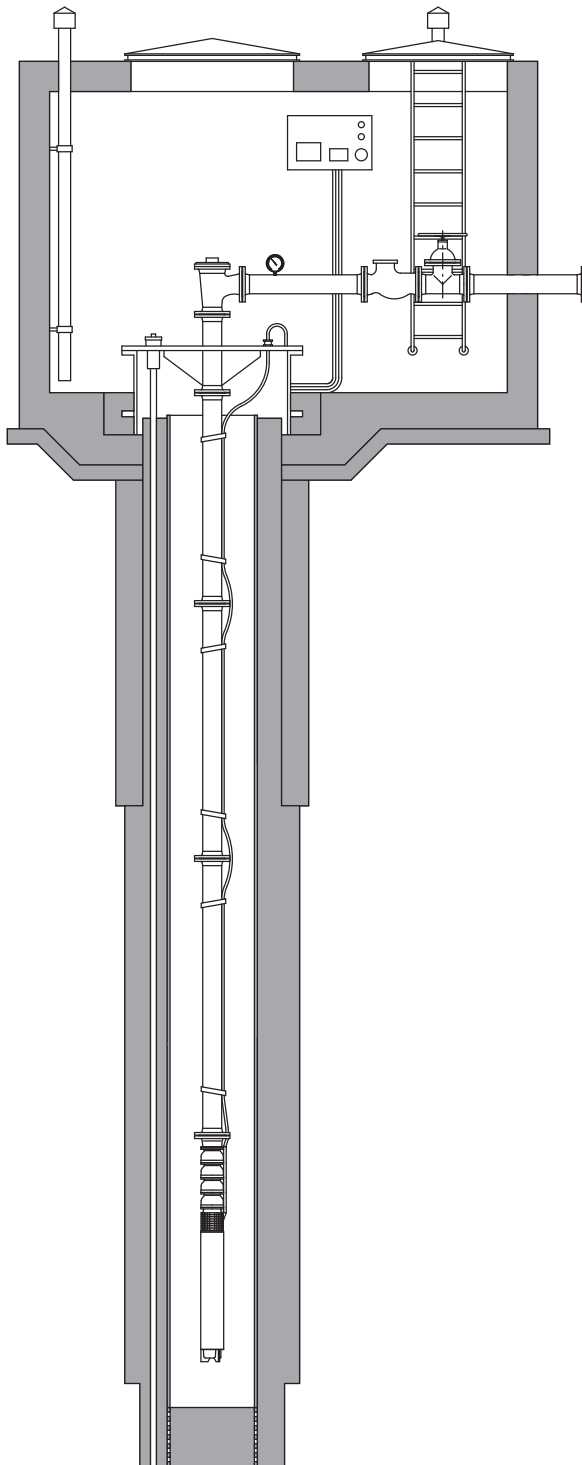
A pipe with a cone end and a filtration system aligned underneath (open part of the pipe) is driven down as far as the ground water level by ramming. This method is particularly favoured by hobby handy-men with small installations and lesser depths. These so-called "driven wells" are referred to by specialists as "Bauhaus wells". Advantage: easy to set up. Disadvantage: lasts only approximately 5 years.

Tube wells/vertical wells

Drilling is carried out down to the ground water body. A filtration system is provided in the area of the water-carrying level. This method can be utilised for great depths (over 1.000 m).

Horizontal filter well

Starting from a pit, horizontal drillings with filtration systems are pushed forward into the ground water body. These wells enable large extraction quantities.



Utilisation in fire fighting plants

Sprinkler fire fighting plants are automatic fire extinguishing plants, which are used for preventive fire protection in special buildings, such as high-rise buildings, office buildings, stores, industrial plants, places of public assembly and underground parking garages.

The sprinkler head was invented in 1874 by the US American Henry S. Parmalee, a manufacturer of pianos. Originally, the water outlet nozzles were sealed with a metal plate which was held in place by a fixture bonded with solder. The solder melts at the corresponding temperature, the holding fixture releases the metal plate, this is pressed out by the water pressure and the water which flows out here is sprayed.

Several water outlet nozzles (so-called sprinkler heads) are installed in the ceiling or in the upper area of the side walls which are connected with a water pipe network. The water outlet nozzles, in turn, are sealed with glass ampules, which are filled with a special coloured liquid. A constant water pressure prevails inside a sprinkler system, which is controlled in the central sprinkler control. In the event of a fire, the special liquid heats up in the glass ampule and expands, which causes the ampule to explode. This causes the nozzles to open and water to escape out of the sprinkler pipe network. Hereby, the colour of the special liquid characterises the triggering temperature. This triggering temperature lies approx. 30°C above the expected room temperature, on average.

The pressure drop resulting from this is detected and leads to special valves being opened and the starting of our sprinkler pumps. Now water from tanks provided for this purpose or via a water connection dimensioned for this is pumped at high pressure into the sprinkler system. This escapes at all open water nozzles and extinguishes or minimises the fire.

The pipework and water supply are dimensioned here so that water is only available for a certain number of water nozzles, the so-called effective area. If more sprinkler heads open than are available within the effective area, the flow volume available per sprinkler head goes down and the effectiveness of the system is lowered.



Sprinkler fire fighting plants are therefore mostly for fighting the beginning phase of a fire (incipient fire) and are not able to fight a full-blown fire. A fire-resistant divider must be set up between areas without a sprinkler fire fighting plant and areas with a sprinkler fire fighting plant to prevent a full-blown fire, which developed in an unprotected area, from spreading to a building section protected with a sprinkler fire fighting plant.

So-called dry pipe systems are used in areas which are subject to frost and where the sprinkler lines can freeze. In these systems, the pipe network is filled with compressed air. The system only fills with water after a sprinkler head is triggered.

Central sprinkler controls are usually connected to fire alarm systems like a normal fire detector and trigger a fire alarm when a pressure drop is detected. This is transmitted to the police, fire department, plant security or other rescue organisations, depending on the programming.

In Germany, sprinkler fire fighting plants are usually designed in accordance with the VdS CEA 4001 (VdS accident prevention, CEA Comité Européen des Assurances) regulations. The American NFPA (National Fire Protection Association) standard – in the directive's modified or further-developed form also called the FM (Factory Mutual) standard – is becoming more and more popular among international builders, however, and is meanwhile also accepted by German regulatory authorities in most cases. The system is designed depending on the danger of fire in the area to be protected by defining the amount of water for extinguishing the fire source between 2.25 mm/min and 30 mm/min (1 mm/min is equivalent to 1 l/m²/min), the acting time between 30 and 90 min and the distance between the sprinkler heads.



Planning Guide

Offshore applications

Definition

The term “Offshore installations” refers to structures permanently located either in open seas or directly in front of a coast. An example of this is an oil rig.

Platforms are referred to as oil rigs if they are used to bore holes in the sea bottom for the purpose of developing petroleum and natural gas fields.

Construction types

A number of different construction types exist for oil rigs. Our pumps are utilised chiefly on the following two types:

- Jack-up rig: this platform stands on structural legs which stand in turn on foundations on the sea floor. The platform can be moved vertically – i.e. along the legs, the internal structure of the platform is thereby used partially as a ballast tank which is filled with sea water. Transport is performed by special ships. Jack-up rigs are usually to be found in flat bodies of water.
- Semi-submersible rig: The platform floats on pontoons, which ensure the buoyancy of the structure while being used at the same time as ballast tanks. It is possible to keep the oil rig itself stable, even under adverse weather conditions, by filling or emptying the ballast tanks. The positioning above the borehole is ensured by the utilisation of an anchor or by its own drives. This type of oil rig is very mobile and can be utilised in water depths extending down to approximately 1800 m.

Materials

Sea water is an extremely corrosive fluid. Materials which are resistant to sea water must be used in order to construct pumps which can be utilised in it. All of the parts in contact with the fluid in our units that are manufactured for utilisation in sea water are either made of bronze or stainless steel or are coated with Ceram, a fluid ceramic coating. The utilisation of these high-quality materials makes it possible to achieve long service life for the pumps.

Utilisation

Borehole, polder or sewage pumps are used on oil rigs.

In jack-up rigs, the borehole pumps are installed either in the structural legs or on the derrick itself. They pump sea water onto the deck where it is then distributed to different consumers, e.g. the firefighting system.

The borehole pumps are also installed on the derrick on semi-submersible rigs and motor pump – as is the case with jack-up rigs – sea water onto the deck. In addition, polder pumps are installed in the ballast tanks in order to fill or empty them.

Submersible sewage pumps are utilised for the rapid filling of the ballast tanks on jack-up rigs before the platform is raised to its working height.

Oil rig equipment

The entire furnishing and planning of our units on oil rigs is carried out by our partner, the S&N Pump Company in Houston, Texas (www.snump.com).



Offshore applications

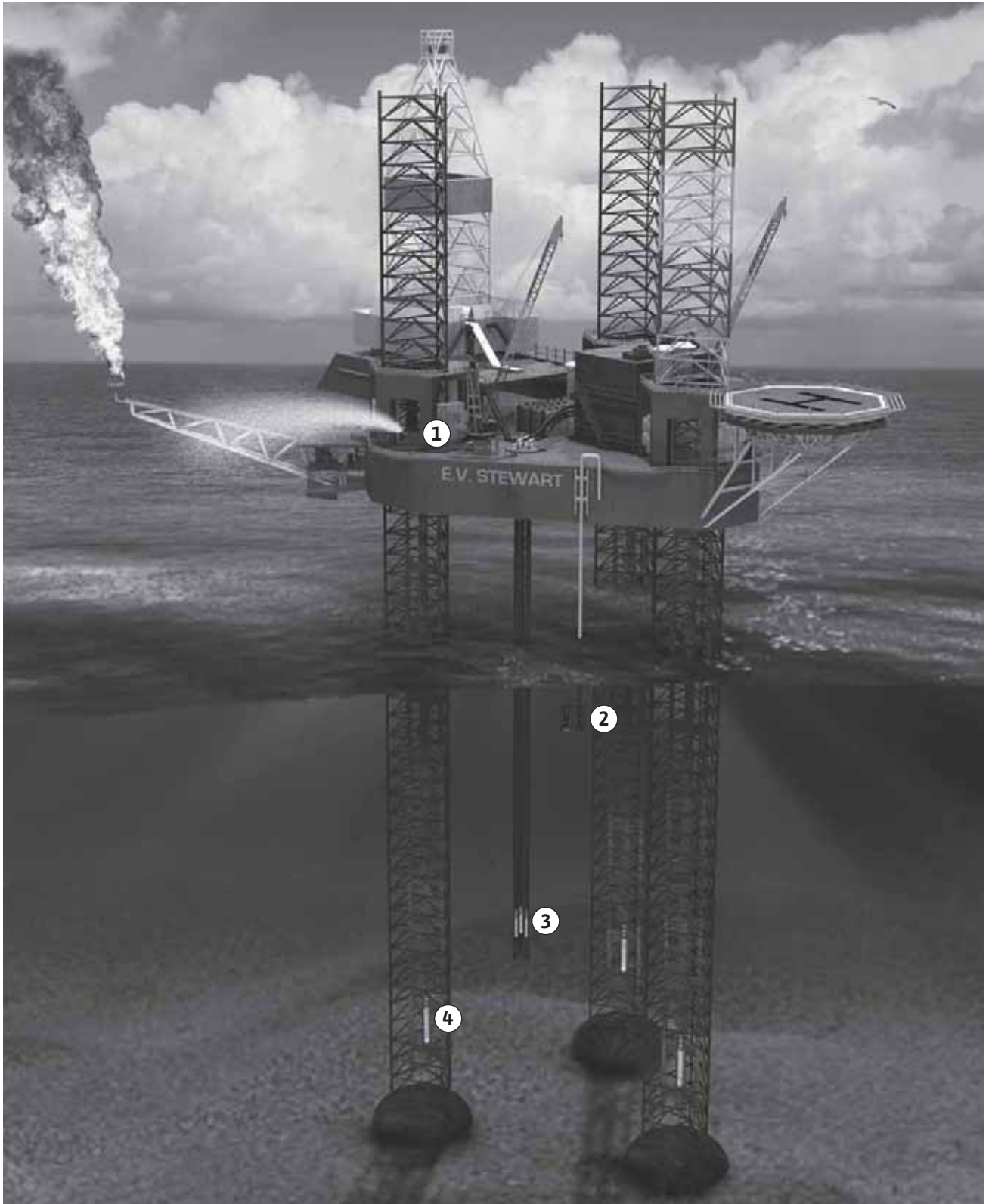


Illustration jack-up rig: 1.) Permanent water curtain, 2.) Sewage pump in the frame, freely suspended in sea water, 3.) Installation of the borehole pump on the water tower, 4.) Installation of the borehole pump in the structural legs; Image source: S&N Pump Company

Planning Guide

Material selection through water analysis

Corrosion

An advance estimate of the corrosion potential for the components of a pump aggregate can be carried out on the basis of a water analysis. The passivity of each material vis-à-vis the fluid presumes the formation of a suitable protective layer on the surface that comes into contact with the fluid. In the case of cast iron, this is the so-called “lime-rust protective layer” which, depending on the composition of the pumped water, can form and help prevent further corrosion. Two criteria are necessary for the successful action of this protective layer:

- Tendency to precipitate lime-bearing layers as per Fig. 1.
Main parameters: pH value and carbonate hardness and/or acid capacity $K_{S\ 4,3}$ of the pumped water.
- Chemical stability of the precipitated protective layer vis-à-vis the carbonic acid that is present in accordance with Fig. 2.
Main parameters: free CO_2 content and carbonate hardness and/or acid capacity $K_{S\ 4,3}$ (the aggressive range corresponds to the free, non-associated CO_2 content).

The line shown in the illustrations represents the equilibrium curve (GK) between promotion of and damage to or incapability of layer formation. In the “aggressive” range (with grey background) materials will presumably be vulnerable to attack in the absence of protective layers. In such cases we recommend our special version C or D made of more corrosion-resistant materials.

It is not overall hardness, but solely carbonate hardness (sum total of calcium and magnesium bicarbonate $Ca(HCO_3)_2 + Mg(HCO_3)_2$) that determines protective layer formation.

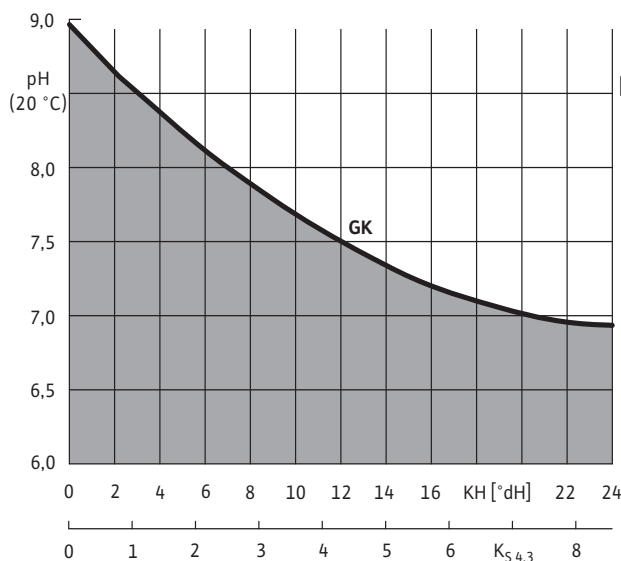


Fig. 1: Tendency to precipitation of layers containing lime

Additional constituents and/or parameters of natural waters can have a damaging effect on the resistance of standard materials above the specified concentrations:

- SO_4^{2-} approximately 200 mg/l
- Cl^- approximately 150 mg/l
- evaporation residues approximately 500 mg/l
- electrical conductivity approximately 1000 $\mu S/cm$
- as well as traces of Cl_2 , H_2S , NH_3 , NH_4 , sulphur, humic acids, hydrocarbons.

The presence of combinations of these constituents, even in smaller concentrations, can cause materials to be attacked. The warmer an aggressive fluid is, the more quickly it attacks a material. We request that our plant be consulted in the event that critical constituents are present. Wilo has developed advanced special versions even for such aggressive fluids as sea water and brackish water.

Formation of disruptive coatings and deposits

Coatings lead to impaired pumping capacity and/or to impaired heat dissipation of the drive motor. Unwanted deposits can form in the presence of an excessive tendency to lime deposits as per Fig. 1 (hard water) (e.g. iron approximately 0.2 mg/l and/or manganese approximately 0.1 mg/l, ochre coatings and/or manganese dioxide).

Solids in the fluid

If solids are contained in the fluid, then material degradation can occur in the pump, depending on content and composition. Wilo submersible motor pumps are designed for a maximum sand content of 35 mg/l. Pumps with components made of more wear-resistant materials on request.

Gaseous constituents

Certain applications require the pumping of gaseous fluids (e.g. mineral and thermal waters). Gas bubbles can considerably alter the pumping characteristics under certain circumstances and can lead to unfavourable operating conditions. We request that our plant be consulted in such cases.

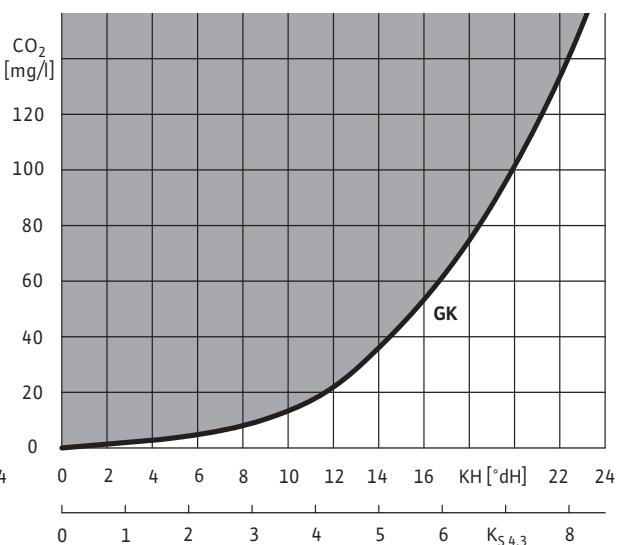


Fig. 2: Chemical stability of the precipitated protective coating vis-à-vis the carbonic acid that is present

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Domestic water supply

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Building Services/Domestic Water Supply

Planning guide

Electrical connection

Electrical connection of the Wilo submersible motor pumps

Cable lengths and cross-sections

The cable cross-sections required for the electrical connection of the Wilo submersible motor pumps are dependent on the length of the connection cable, the mains voltage and on the motor power and starting mode of the motors. This data can be obtained from the following table.

Each motor cable can be extended with the respective motor cable cross-section available by at least a minimum of 30 m.

For additional planning instructions, see Wilo "Borehole technology" planning manual.

Mains connection	Motor performance [kW]	Cable cross-section 4 x n [mm ²]																	
		1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400	
Direct-starting 3~400 V 50 Hz or 3~380 V 60 Hz	2.2	120	199	317	472	775	–	–	–	–	–	–	–	–	–	–	–	–	
	3	90	154	245	364	598	–	–	–	–	–	–	–	–	–	–	–	–	
	4	69	114	182	271	444	685	–	–	–	–	–	–	–	–	–	–	–	
	5.5	50	83	130	197	324	509	–	–	–	–	–	–	–	–	–	–	–	
	7.5	40	66	105	156	257	404	616	–	–	–	–	–	–	–	–	–	–	
	11	–	45	72	107	176	278	423	577	–	–	–	–	–	–	–	–	–	–
	15	–	–	–	80	132	208	317	452	595	–	–	–	–	–	–	–	–	–
	18.5	–	–	–	65	107	168	256	348	481	645	–	–	–	–	–	–	–	–
	22	–	–	–	–	90	142	215	295	407	545	704	–	–	–	–	–	–	–
	30	–	–	–	–	–	108	164	223	306	408	522	622	–	–	–	–	–	–
	37	–	–	–	–	–	86	131	179	248	335	434	524	623	–	–	–	–	–
	45	–	–	–	–	–	–	112	152	209	279	358	426	502	580	–	–	–	–
	55	–	–	–	–	–	–	–	124	170	228	293	351	414	481	571	–	–	–
	75	–	–	–	–	–	–	–	–	129	173	223	267	316	367	437	500	583	–
	93	–	–	–	–	–	–	–	–	–	134	172	205	241	279	330	375	433	–
110	–	–	–	–	–	–	–	–	–	–	145	174	205	237	281	320	370	–	
Y/Δ-starting 3~400 V 50 Hz or 3~380 V 60 Hz	2.2	180	299	476	708	1163	–	–	–	–	–	–	–	–	–	–	–	–	
	3	135	231	368	546	897	–	–	–	–	–	–	–	–	–	–	–	–	
	4	104	171	273	407	666	1028	–	–	–	–	–	–	–	–	–	–	–	
	5.5	75	125	195	296	486	764	–	–	–	–	–	–	–	–	–	–	–	
	7.5	60	99	158	234	386	606	924	–	–	–	–	–	–	–	–	–	–	
	11	–	68	108	161	264	417	635	866	–	–	–	–	–	–	–	–	–	–
	15	–	–	–	120	198	312	476	678	893	–	–	–	–	–	–	–	–	–
	18.5	–	–	–	98	161	252	384	522	722	968	–	–	–	–	–	–	–	–
	22	–	–	–	–	135	213	323	443	611	818	1056	–	–	–	–	–	–	–
Direct-starting 1~230 V 50 Hz	0.25	190	320	510	770	1260	1970	2960	3990	5340	6970	8750	–	–	–	–	–	–	
	0.37	120	210	330	500	820	1290	1950	2640	3560	4680	5910	–	–	–	–	–	–	
	0.55	80	140	230	350	580	900	1360	1830	2450	3210	4020	–	–	–	–	–	–	
	0.75	60	110	180	270	440	690	1050	1430	1930	2550	3230	–	–	–	–	–	–	
	1.1	40	70	120	190	310	490	750	1020	1390	1860	2380	–	–	–	–	–	–	
	1.5	30	60	100	150	250	400	620	850	1180	1590	2070	–	–	–	–	–	–	
	2.2	20	40	60	100	170	270	410	560	770	1030	1320	–	–	–	–	–	–	
	3.7	–	–	40	60	110	170	260	370	520	710	930	–	–	–	–	–	–	

Domestic water supply

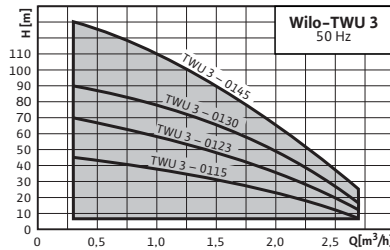
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Building Services/Domestic Water Supply

Domestic water supply

Series overview Wilo-Sub TWU 3/TWU 3 Basic, TWU 4, TWU 4-QC

Series: Wilo-Sub TWU 3/TWU 3 Basic

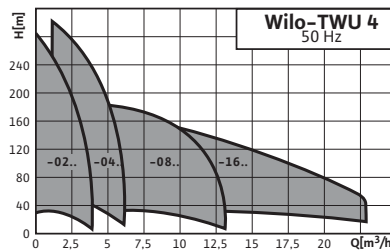


> Submersible pump

- for water supply from boreholes, wells and cisterns
- for domestic water supply, sprinkling and irrigation
- for pumping water without long-fibre and abrasive constituents



Series: Wilo-Sub TWU 4



> Submersible pump

- for water supply from boreholes and cisterns
- for municipal water supply, sprinkling and irrigation, pressure boosting, lowering of the ground water level, industrial applications
- for pumping water without long-fibre and abrasive constituents



Series overview Wilo-Sub TWU 3/TWU 3 Basic, TWU 4, TWU 4-QC

Series: Wilo-Sub TWU 3/TWU 3 Basic

> Product advantages

- Simple to install
- Rewindable motors
- Motors 1~ and motors 3~ available as standard
- Vertical or horizontal installation possible
- Integrated non-return device

> Additional information:

Page

- Equipment/function 22
- Version overview 23
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- Series description 26
- Pump curves, dimensions, weights 27

Series: Wilo-Sub TWU 4

> Product advantages

- Parts in contact with the fluid are corrosion-free
- Vertical or horizontal installation possible
- Integrated non-return device

> Additional information:

Page

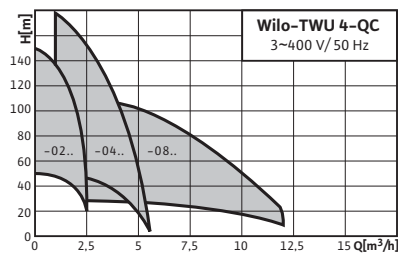
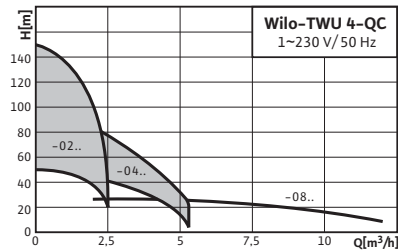
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Building Services/Domestic Water Supply

Domestic water supply

Series overview Wilo-Sub TWU 4-QC, accessories

Series: Wilo-Sub TWU 4-QC



> Submersible pump

- for water supply from boreholes, wells and cisterns
- for municipal water supply, sprinkling and irrigation, pressure boosting, lowering of the ground water level
- for pumping water without long-fibre and abrasive constituents



Accessories



- Cooling jacket pipes
- Switchgears
- Diaphragm pressure vessel
- Connection accessories
- etc.

Series overview Wilo-Sub TWU 4-QC, accessories

Series: Wilo-Sub TWU 4-QC

> Product advantages

- Little time required to extend the length of the motor cable
- No dismantling of the pump required when extending the length of the cable
- Integrated non-return device
- Vertical or horizontal installation possible

> Additional information:

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Accessories

Building Services/Domestic Water Supply

Domestic water supply

Equipment/Function Wilo-Sub TWU 3/TWU 3 Basic, TWU 4, TWU 4-QC

	Wilo-Sub...		
	TWU 3/TWU 3 Basic	TWU 4	TWU 4-QC
Hydraulics			
Totally immersed, multistage submersible motor pump	•	•	•
Integrated non-return device	•	•	•
Radial impellers	•	•	•
Semi-axial impellers ⁴⁾	–	•	•
NEMA coupling	•	•	•
Motor			
EM (single-phase AC motor)	•	•	•
EMSC (AC motor with starting capacitor)	–	•	–
2-wire plug & run motor (single-phase AC motor)	–	–	–
DM (three-phase motor, direct starting)	•	•	•
Integrated thermal motor protection ¹⁾	•	•	•
Integrated lightning protection	–	–	–
Rewindable motors	•	–	–
Encapsulated motor	–	•	•
Equipment			
Dry-running protection	–	–	–
Cable length [m] depending on type	1.8	1.5/2.5/4	1.5
Cable cross-section [mm ²]	4 x 1.5	4 x 1.5	4 x 1.5
Options			
Star/delta motor version	–	–	–
Motors in stainless steel 316- version	–	–	–
Motors with PT 100	–	–	–
Scope of delivery			
Hydraulics completely installed with the motor	•	•	•
Switchbox with capacitor	• 1)	• 1)	• 1)
Corrosion-free safety rope	–	–	–
Installation parts	–	–	–
Cable binders	–	–	–
Wilo-FluidControl (for automatic operation)	–	–	–
Wilo pressure switching with diaphragm pressure vessel	–	–	–
Installation and operating instructions	•	•	•

• = standard version, – = not available

¹⁾ for AC EM version,

²⁾ for Sub II package,

³⁾ for Sub I package

⁴⁾ for TWU 4-8..., TWU 4-16...

Version overview Wilo-Sub TWU

		Wilo-Sub...		
		TWU 3, TWU 3 Basic	TWU 4	TWU 4-QC
Hydraulics material				
Impellers	Cast iron (EN-GJL200)	–	–	–
	Plastic	•	•	•
	Bronze	–	–	–
	Stainless steel 1.4301 (AISI 304)	–	–	–
	Stainless steel 1.4404 (AISI 316L)	–	–	–
Stage housing	Cast iron (EN-GJL200)	–	–	–
	Stainless steel 1.4301 (AISI 304)	–	–	–
	Stainless steel 1.4404 (AISI 316L)	–	–	–
	Plastic	•	•	•
	Bronze	–	–	–
Suction housing	Stainless steel 1.4301 (AISI 304)	•	•	•
	Brass	•	–	–
Non-return valve	Bronze	–	–	–
	Plastic	•	•	•
	Stainless steel 1.4301 (AISI 304)	–	–	–
	Stainless steel 1.4404 (AISI 316L)	–	–	–
Shaft	Stainless steel AISI 430 F	•	•	•
	Stainless steel 1.4301 (AISI 304)	–	–	–
	Steel 1.4006 (AISI 410)	–	–	–
Pump housing	Stainless steel 1.4301 (AISI 304)	•	•	•
Motor material				
Motor housing	Stainless steel 1.4301 (AISI 304)	•	–	•
	Stainless steel 1.4571 (AISI 316 Ti)	–	–	–
Shaft end	Stainless steel 1.4305 (AISI 303)	•	•	•
	Stainless steel 1.4460 (AISI 329)	–	optional	–

Building Services/Domestic Water Supply

Domestic water supply

Version overview Wilo-Sub TWU

	Wilo-Sub...		
	TWU 3, TWU 3 Basic	TWU 4	TWU 4-QC
Motor versions			
3" direct starting, rewindable	•	–	–
4" encapsulated, direct starting, cast stator	–	•	•
6" encapsulated, direct starting, cast stator	–	–	–
8" encapsulated, direct starting, cast stator	–	–	–
6" encapsulated, Star/delta, cast stator	–	–	–
8" encapsulated, Star/delta, cast stator	–	–	–
6" rewindable, direct starting	–	–	–
8" rewindable, direct starting	–	–	–
1~230 V-50 Hz EM	•	•	•
1~230 V-50 Hz EMSC	–	•	–
1~230 V-50 Hz 2-wire (plug & run)	–	optional	•
1~230 V-60 Hz	optional	optional	optional
1~230 V-60 Hz 2-wire (plug & run)	–	optional	optional
3~380-415 V-50 Hz	•	•	•
3~500 V-50 Hz	–	optional	–
3~230 V-50 Hz	optional	optional	–
3~230 V-60 Hz	–	optional	–
3~380 V-60 Hz	optional	optional	optional
3~460 V-60 Hz	–	optional	–
PT 100	–	–	–

• = standard version, – = not available

Please note that certain combinations of options may not be possible under certain circumstances.

¹⁾ to 5.5 kW

²⁾ to 45 kW

Technical data Wilo-Sub TWU

	Wilo-Sub...								
	TWU3 .../TWU3 ... Basic	TWU 4 ...				TWU 4 ... QC			
	01...	02..	04..	08..	16..	02...	04...	08...	
Approved fluids									
Pure water without settling sediment	•		•			•	•	•	
Rainwater	–		•			•	•	•	
Performance (with 50 Hz operation)									
Flow volume maximum [m ³ /h]	2.6	2.4	5.5	12	23	2.4	5.5	12	
Maximum delivery head [m]	125	284	300	211	180	146	180	112	
¹⁾ Fluid temperature [°C]	+ 3 to +40	+3 to +30				+ 3 to +30			
Immersion depth maximum [m]	60	200				200			
Sand content maximum [g/m ³]	40	50				50			
Minimum water speed [cm/s]	8	8				8			
Starts per hour, maximum	20	20				20			
Voltage tolerance, maximum [%]	–10 to +10	–10 to +10				–10 to +10			
Motor									
Electrical connection 1~ [V/Hz]	230/50	230/50				230/50			
Electrical connection 3~ [V/Hz]	400/50	400/50				400/50			
Insulation class	F	B				B			
Protection class	IP 58	IP 68				IP 68			
Connections									
Discharge pipe line [Rp]	1	1 ¹ / ₄	1 ¹ / ₄	2	2	1 ¹ / ₄	1 ¹ / ₄	2	

• = standard version, – = not available

¹⁾ Depending on the motor size. Other application limits on request

Building Services/Domestic Water Supply

Domestic water supply

Series description Wilo-Sub TWU 3/TWU 3 Basic



TWU 3



TWU 3 Basic

Wilo-Sub TWU 3/TWU 3 Basic

Submersible pump

Type key

Example: **Wilo-Sub TWU 3 – 0123 EM**

TWU	Submersible pump
3	Minimum diameter Borehole \varnothing 3" = DN 80 Motor- \varnothing max. 72 mm Pumps \varnothing maximum 74 mm
01	Nominal flow volume [m ³ /h]
23	Number of pump stages
EM	AC V 1~230 V, 50 Hz with capacitor
DM	Three-phase current 3~400 V, 50 Hz

Application

Water supply from boreholes with a minimum diameter of 3" (= DN 80) and a maximum immersion depth of up to 60 metres.
Domestic water supply, sprinkling and irrigation.
Pumping of water without long-fibre and abrasive constituents within the limitations of the specified minimums and maximums.

Construction

Hydraulics

Multistage submersible motor pump with radial impellers in sectional construction. Housing made of stainless steel 1.4301/AISI 304, impellers made of Noryl plastic, EPDM seals.

TWU 3: Pump connection head and flange made of stainless steel.

TWU 3 Basic: Pump connection head and flange made of brass.

All parts in contact with the fluid are made of corrosion-free materials.

Motor

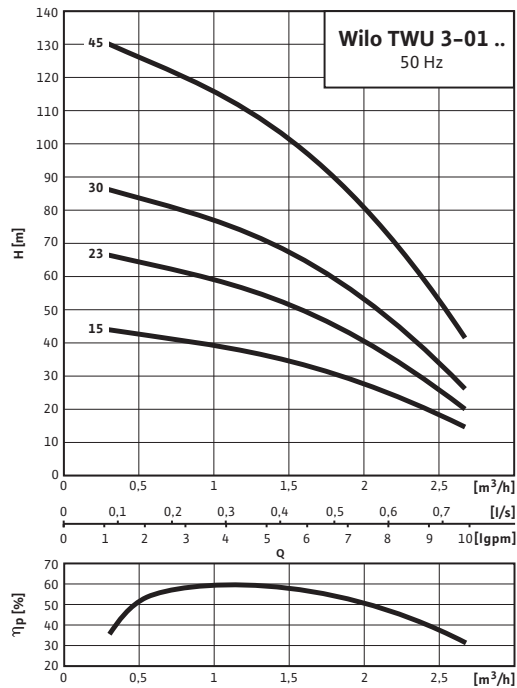
Corrosion-free single-phase AC or three-phase motor, rewindable and oil-filled, for direct starting. Self-lubricating bearing. Motor cooling is effected by the temperature and flow velocity of the pumped liquid outside of the motor (8 cm/s).

Scope of delivery

1.8 m long connection cable (VDE/KTW) 4 x 1.5 mm² cable cross-section. AC EM version including switchbox with capacitor, thermal motor protection and On/Off switch. Includes packaging in addition to installation and operating instructions.

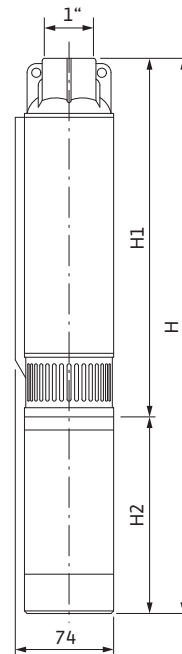
Pump curves, motor data, dimensions, weights Wilo-Sub TWU 3/TWU 3 Basic

Wilo-Sub TWU 3-0115 to TWU 3-0145 (Basic)



Dimension drawing

2-pole/50 Hz



Dimensions, weights

Wilo-Sub ...	H ₁		H ₂		H		Weight ¹⁾	
			1~230 V, 50 Hz	3~400 V, 50 Hz	1~230 V, 50 Hz	3~400 V, 50 Hz	1~230 V, 50 Hz	3~400 V, 50 Hz
	[mm]						[kg]	
TWU 3-0115	580		377	377	957	957	9.3	9.3
TWU 3-0123	780		397	377	1177	1157	10.8	10.5
TWU 3-0130	1000		416	397	1416	1397	12.4	12.0
TWU 3-0145	1380		–	416	–	1796	–	14.4

¹⁾ without packaging

Motor data

Wilo-Sub ...	Nominal power P ₂	Nominal current I _N		Cable length		Cable cross-section (Starting mode: direct)
		1~230 V, 50 Hz	3~400 V, 50 Hz	1~230 V, 50 Hz	3~400 V, 50 Hz	
	[kW]	[A]		[m]		[mm ²]
TWU 3-0115	0.37	3.75	2.0	1.8	1.8	4 x 1.5
TWU 3-0123	0.55	4.50	2.1	1.8	1.8	4 x 1.5
TWU 3-0130	0.75	5.85	2.5	1.8	1.8	4 x 1.5
TWU 3-0145	1.10	–	3.2	–	1.8	4 x 1.5

Series description Wilo-Sub TWU 4



Wilo-Sub TWU 4

Submersible pump

Type key

Example: **Wilo-Sub TWU 4 – 0211 EM**

TWU	Submersible pump
4	Minimum diameter Borehole \varnothing 4" = DN 100 Motor \varnothing maximum 96 mm Pumps \varnothing maximum 98 mm
02	Nominal flow volume [m ³ /h]
11	Number of pump stages
EM	AC 1~230 V, 50 Hz with capacitor
EMSC	AC 1~230 V, 50 Hz with additional starting capacitor
DM	Three-phase current 3~400 V, 50 Hz

Application

Water supply from boreholes with a minimum diameter of 4" (= DN 100) and a maximum immersion depth of up to 200 metres. Submersible motor pump for domestic water supplies from boreholes and cisterns, for sprinkling and irrigation, for pumping water without long-fibre and abrasive constituents. Pumping of water without long-fibre and abrasive constituents within the limitations of the specified minimums and maximums.

Construction

Hydraulics

Fully submersible, multistage submersible motor pump with radial (size 02.. and 04..) or semi-axial (size 08.. and 16..) impellers in sectional construction. Pressure housing, jacket pipe, stage covering and strainer made of stainless steel. Built-in non-return valve in the pump head. All parts in contact with the pumped fluid are made of corrosion-free materials.

Motor

Corrosion-free single-phase AC or three-phase motor with enamelled windings in hermetically cast stator for direct starting. Sealed cast stator, resin-saturated, self-lubricating bearings. Motor cooling is effected by the temperature and flow velocity of the pumped liquid outside of the motor.

Scope of delivery

Submersible motor pump with built-in non-return valve, protection class IP 68 for the entire pump; 1.5 m or 2.5 m detachable connection cable (VDE/KTW) 4 x 1.5 mm² cable cross-section.

AC EM version including switchbox with capacitor (EMSC version also supplied with starting capacitor), thermal motor protection and On/Off switch. Includes packaging in addition to installation and operating instructions.

Options

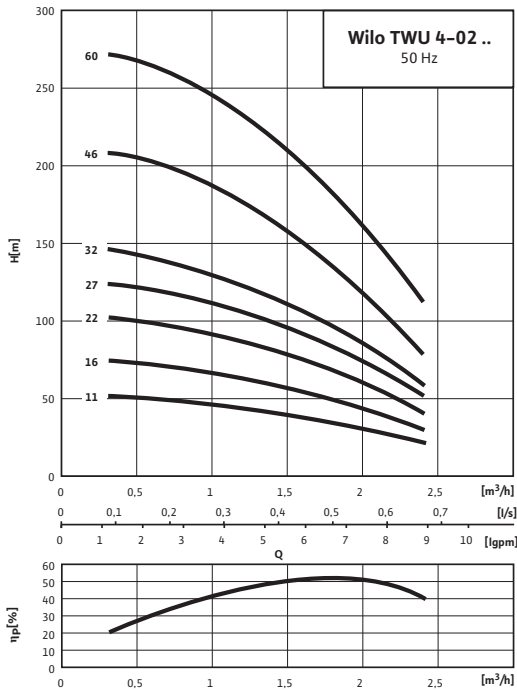
- Motor in stainless steel 316L
- 1~230 V 2-wire motor (up to 1.1 kW):
No start-up device required, lightning protection and overload protection built into the motor.
- 60 Hz motor

Accessories

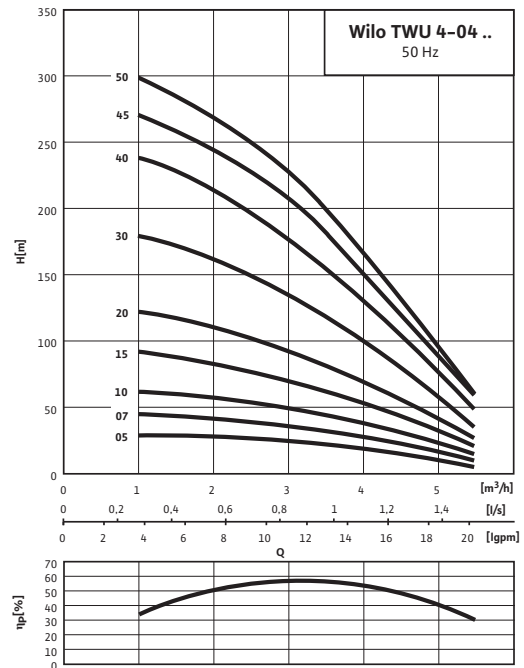
Starting on page 176.

Pump curves Wilo-Sub TWU 4

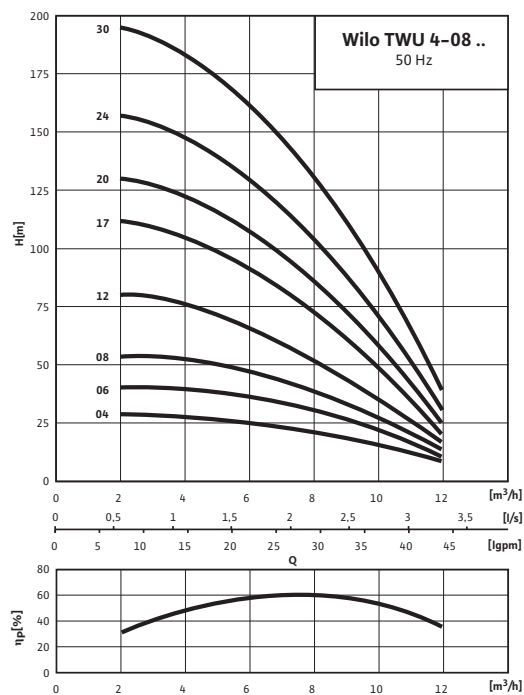
Wilo-Sub TWU 4-0211 to 0260



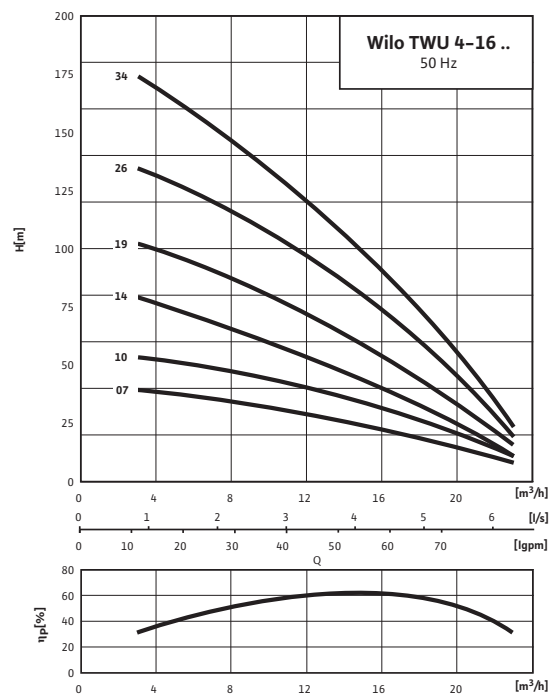
Wilo-Sub TWU 4-0405 to 0450



Wilo-Sub TWU 4-0804 to 0830



Wilo-Sub TWU 4-1607 to 1634



Building Services/Domestic Water Supply

Domestic water supply

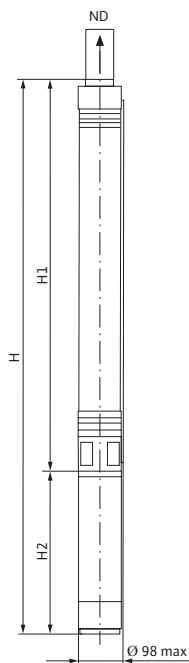
Motor data Wilo-Sub TWU 4

Motor data										
Wilo-Sub TWU ...	Nominal power P_2	Nominal current I_N				Capacitor for EM $U_c = 450 \text{ V}$	Cable length			Cable cross- section (Starting mode: direct)
		1~230 V EM	1~230 V (EMSC)	1~230 V (2-wire)	3~400 V DM		EM	EMSC	DM	
	[kW]	[A]				[μF]	[m]			[mm ²]
4-0211	0.37	3.4	4.0	4.1	1.1	16	1.5	1.5	1.5	4 x 1.5
4-0216	0.55	4.3	6.0	6.5	1.6	20	1.5	1.5	1.5	4 x 1.5
4-0222	0.75	5.7	7.3	7.6	2.1	30	1.5	1.5	1.5	4 x 1.5
4-0227	1.1	8.6	8.9	10.8	3.0	40	1.5	1.5	1.5	4 x 1.5
4-0232	1.1	8.6	8.9	10.8	3.0	40	1.5	1.5	1.5	4 x 1.5
4-0246	1.5	10.6	11.1	–	4.0	50	1.5	1.5	1.5	4 x 1.5
4-0260	2.2	15.5	15.9	–	5.9	70	1.5	2.5	2.5	4 x 1.5
4-0405	0.37	3.4	4.0	4.1	1.1	16	1.5	1.5	1.5	4 x 1.5
4-0407	0.55	4.3	6.0	6.5	1.6	20	1.5	1.5	1.5	4 x 1.5
4-0410	0.75	5.7	7.3	7.6	2.1	30	1.5	1.5	1.5	4 x 1.5
4-0415	1.1	8.6	8.9	10.8	3.0	40	1.5	1.5	1.5	4 x 1.5
4-0420	1.5	10.6	11.1	–	4.0	50	1.5	1.5	1.5	4 x 1.5
4-0430	2.2	15.5	15.9	–	5.9	70	1.5	1.5	2.5	4 x 1.5
4-0440	3.0	–	–	–	7.8	–	–	–	2.5	4 x 1.5
4-0445	4.0	–	–	–	10.0	–	–	–	2.5	4 x 1.5
4-0450	4.0	–	–	–	10.0	–	–	–	2.5	4 x 1.5
4-0804	0.75	5.7	7.3	7.6	2.1	30	1.5	1.5	1.5	4 x 1.5
4-0806	1.1	8.6	8.9	10.8	3.0	40	1.5	1.5	1.5	4 x 1.5
4-0808	1.5	10.6	11.1	–	4.0	50	1.5	1.5	1.5	4 x 1.5
4-0812	2.2	15.5	15.9	–	5.9	70	1.5	1.5	2.5	4 x 1.5
4-0817	3.0	–	–	–	7.8	–	–	–	1.5	4 x 1.5
4-0820	3.7	–	–	–	9.1	–	–	–	2.5	4 x 1.5
4-0824	4.0	–	–	–	10.0	–	–	–	2.5	4 x 1.5
4-0830	5.5	–	–	–	13.7	–	–	–	4.0	4 x 1.5
4-1607	1.5	10.6	11.1	–	4.0	50	1.5	1.5	1.5	4 x 1.5
4-1610	2.2	15.5	15.9	–	5.9	70	1.5	1.5	2.5	4 x 1.5
4-1614	3.0	–	–	–	7.8	–	–	–	2.5	4 x 1.5
4-1619	4.0	–	–	–	10.0	–	–	–	2.5	4 x 1.5
4-1626	5.5	–	–	–	13.7	–	–	–	4.0	4 x 1.5
4-1634	7.5	–	–	–	18.8	–	–	–	4.0	4 x 1.5

Dimensions, weights Wilo-Sub TWU 4

Dimension drawing

Wilo-Sub TWU 4 (2-pole/50 Hz)



Dimensions, weights

Wilo-Sub TWU ...	ND	H		H ₁		H ₂		Weight*	
		1~230 V	3~400 V	1~230 V	3~400 V	1~230 V	3~400 V	1~230 V	3~400 V
	Ø	[mm]						[kg]	
4-0211	Rp 1 ¹ / ₄	727	708	485	485	242	223	11.7	10.7
4-0216	Rp 1 ¹ / ₄	856	827	585	585	271	242	13.6	12.7
4-0222	Rp 1 ¹ / ₄	1004	976	705	705	299	271	15.5	14.3
4-0227	Rp 1 ¹ / ₄	1133	1105	806	806	327	299	17.1	16
4-0232	Rp 1 ¹ / ₄	1227	1199	900	900	327	299	18.1	16.8
4-0246	Rp 1 ¹ / ₄	1531	1502	1175	1175	356	327	21.4	20
4-0260	Rp 1 ¹ / ₄	1956	1851	1495	1495	461	356	28	23.5
4-0405	Rp 1 ¹ / ₄	672	653	430	430	242	223	11.5	10.5
4-0407	Rp 1 ¹ / ₄	766	737	495	495	271	242	13.2	11.9
4-0410	Rp 1 ¹ / ₄	889	861	590	590	299	271	15	13.8
4-0415	Rp 1 ¹ / ₄	1077	1049	750	750	327	299	17.4	16.1
4-0420	Rp 1 ¹ / ₄	1271	1242	915	915	356	327	19.9	18.5
4-0430	Rp 1 ¹ / ₄	1696	1591	1235	1235	461	356	26.6	22.1
4-0440	Rp 1 ¹ / ₄	–	1978	–	1555	–	423	–	26.8
4-0445	Rp 1 ¹ / ₄	–	2323	–	1740	–	583	–	34.7
4-0450	Rp 1 ¹ / ₄	–	2503	–	1920	–	583	–	35.4
4-0804	Rp 2	794	766	495	495	299	271	14.1	12.9
4-0806	Rp 2	927	899	600	600	327	299	16	14.7
4-0808	Rp 2	1061	1032	705	705	356	327	18	16.6

* without packaging

Building Services/Domestic Water Supply

Domestic water supply

Dimensions, weights Wilo-Sub TWU 4

Dimensions, weights									
Wilo-Sub TWU ...	ND	H		H ₁		H ₂		Weight*	
		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]	
4-0812	Rp 2	1376	1271	915	915	461	356	23.7	19.2
4-0817	Rp 2	–	1603	–	1180	–	423	–	23.3
4-0820	Rp 2	–	2083	–	1500	–	583	–	29.7
4-0824	Rp 2	–	2188	–	1605	–	583	–	31.9
4-0830	Rp 2	–	2622	–	1925	–	697	–	39.2
4-1607	Rp 2	1196	1167	840	840	356	327	18.8	17.4
4-1610	Rp 2	1536	1431	1075	1075	461	356	24.7	20.2
4-1614	Rp 2	–	1878	–	1455	–	423	–	24.9
4-1619	Rp 2	–	2428	–	1845	–	583	–	33.2
4-1626	Rp 2	–	3152	–	2455	–	697	–	42.3
4-1634	Rp 2	–	3924	–	3150	–	774	–	50.7

* without packaging

Series description Wilo-Sub TWU 4-QC



Wilo-Sub TWU 4-QC
Submersible pump

Type key

Example: **Wilo-Sub TWU 4-0211-QC EM**

TWU	Submersible pump
4	Minimum diameter borehole ϕ 4" = DN 100 Motor ϕ maximum 96 mm Pumps ϕ maximum 98 mm
02	Nominal flow volume [m ³ /h]
11	Number of pump stages
EM	AC 1~230 V, 50 Hz with capacitor
QC	Quick Connect Cable: Quick-connection cable for simple and rapid extension of the motor cable.
DM	Three-phase current 3~400 V, 50 Hz

Application

Water supply from boreholes with a minimum diameter of 4" (= DN 100) and a maximum immersion depth of up to 200 metres. Submersible motor pump for domestic water supplies from boreholes and cisterns, for sprinkling and irrigation, for pumping water without long-fibre and abrasive constituents.

Construction

Hydraulics

Multistage submersible motor pump with radial (size 02.. and 04) or semi-axial (size 08..) impellers in sectional construction. Pressure housing, jacket pipe, stage covering and strainer made of stainless steel. Built-in non-return valve in the pump head. All parts in contact with the fluid are made of corrosion-free materials.

Motor

Corrosion-free single-phase AC or three-phase motor with enamelled windings in hermetically cast stator for direct starting. Sealed cast stator, resin-saturated, self-lubricating bearings. Motor cooling is effected by the temperature and flow velocity of the pumped liquid outside of the motor.

Scope of delivery

1.5 m or m detachable electrical connection cable (VDE/KTW) with 4 x 1.5 mm² cable cross-section. Cable binders for fixation of the motor cable to the water line, safety rope (polypropylene; ϕ 6 mm), 1 clamp for fixation of the safety rope to the pump. AC EM version including switchbox with capacitor, thermal motor protection and On/Off switch. Including packing and installation and operating instructions.

Connection accessories

Quick Connect Cable: Quick-connection cable for simple and rapid extension of the motor cable.

Options

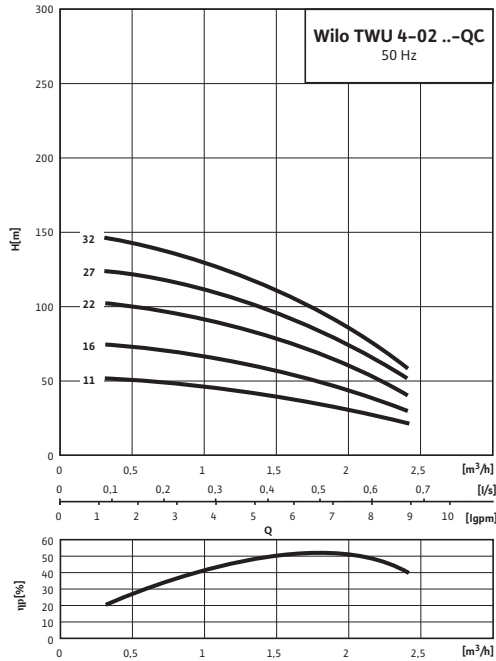
- Motor in stainless steel 316L
- 1~230 V 2-wire-motor (to 1.1 kW):
No start-up device required, lightning protection and overload protection built into the motor.
- 60 Hz motor

Building Services/Domestic Water Supply

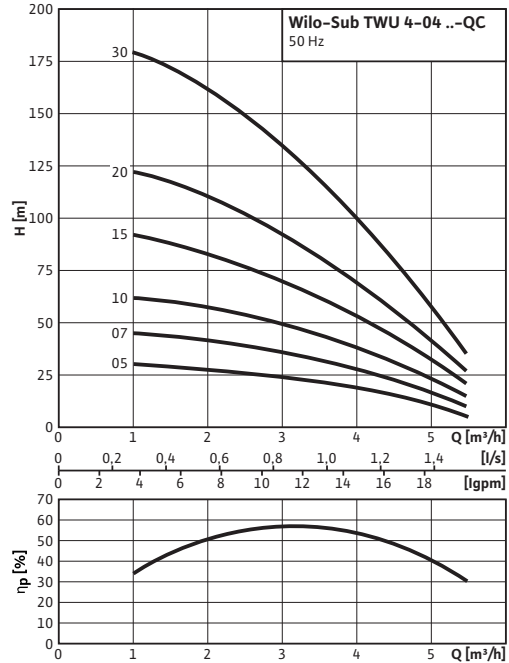
Domestic water supply

Pump curves Wilo-Sub TWU 4-QC

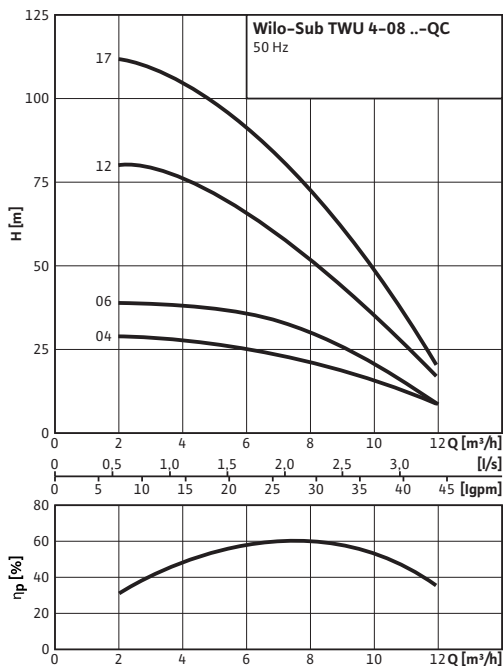
Wilo-Sub TWU 4-0211-QC to 0232-QC



Wilo-Sub TWU 4-0405-QC to 0430-QC



Wilo-Sub TWU 4-0804-QC to 0817-QC



Motor data Wilo-Sub TWU 4-QC

Motor data TWU 4-QC

Wilo-Sub TWU ...	Nominal power P_2	Nominal current I_N	
		1~230 V, 50 Hz	3~400 V, 50 Hz
	[kW]	[A]	
4-0211-QC	0.37	3.4	1.1
4-0216-QC	0.55	4.3	1.6
4-0222-QC	0.75	5.7	2.1
4-0232-QC	1.10	8.6	3.0
4-0405-QC	0.37	–	1.1
4-0407-QC	0.55	4.3	1.6
4-0410-QC	0.75	5.7	2.1
4-0415-QC	1.10	8.6	3.0
4-0420-QC	1.50	–	4.0
4-0430-QC	2.20	–	5.9
4-0804-QC	0.75	5.7	2.1
4-0806-QC	1.10	–	3.0
4-0812-QC	2.20	–	5.9
4-0817-QC	3.00	–	7.8

Electrical connection cable (Quick Connect Cable) for TWU 4...-QC

Type	Description	Cable cross-section [mm ²]	Cable length [m]
Quick Connect Cable	Quick connect cable to connect the submersible motor pumps TWU 4...-QC to the power supply	4 x 1.5	10
		4 x 1.5	20
		4 x 1.5	30
		4 x 1.5	50
		4 x 1.5	80
		4 x 1.5	100
		4 x 2.5	50
		4 x 2.5	80
		4 x 2.5	100

Building Services/Domestic Water Supply

Domestic water supply

Motor data Wilo-Sub TWU 4-QC

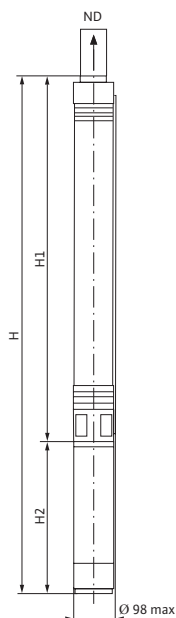
Determining the req. cable cross-section for Quick Connect Cable

Wilo-Sub TWU ...	Motor power P_2 (kW)	Single-phase AC motor 1~230 V (EM)				Three-phase motor 3~400 V (DM)	
		maximum perm. cable length 10 m/20 m/ 30 m	maximum perm. cable length 50 m	maximum perm. cable length 80 m	maximum perm. cable length 100 m	maximum perm. cable length 10 m/20 m/ 30 m 50 m/80 m	maximum perm. cable length 100 m
		req. cable cross-section (mm ²)					
4-0211-QC	0.37	4 x 1.5	4 x 1.5	4 x 1.5	4 x 2.5	4 x 1.5	4 x 1.5
4-0216-QC	0.55	4 x 1.5	4 x 1.5	4 x 2.5	4 x 2.5	4 x 1.5	4 x 1.5
4-0222-QC	0.75	4 x 1.5	4 x 1.5	4 x 2.5	–	4 x 1.5	4 x 1.5
4-0232-QC	1.10	4 x 1.5	4 x 2.5	–	–	4 x 1.5	4 x 1.5
4-0405-QC	0.37	4 x 1.5	4 x 1.5	4 x 1.5	4 x 2.5	4 x 1.5	4 x 1.5
4-0407-QC	0.55	4 x 1.5	4 x 1.5	4 x 2.5	4 x 2.5	4 x 1.5	4 x 1.5
4-0410-QC	0.75	4 x 1.5	4 x 1.5	4 x 2.5	–	4 x 1.5	4 x 1.5
4-0415-QC	1.10	4 x 1.5	4 x 2.5	–	–	4 x 1.5	4 x 1.5
4-0420-QC	1.50	4 x 1.5	–	–	–	4 x 1.5	4 x 1.5
4-0430-QC	2.20	4 x 1.5	–	–	–	4 x 1.5	4 x 1.5
4-0804-QC	0.75	4 x 1.5	4 x 1.5	4 x 2.5	–	4 x 1.5	4 x 1.5
4-0806-QC	1.10	4 x 1.5	4 x 2.5	–	–	4 x 1.5	4 x 1.5
4-0812-QC	2.20	4 x 1.5	–	–	–	4 x 1.5	4 x 1.5
4-0817-QC	3.00	4 x 1.5	–	–	–	4 x 1.5	4 x 2.5

Dimensions, weights Wilo-Sub TWU 4-QC

Dimension drawing

Wilo-Sub TWU 4-QC (2-pole/50 Hz)



Dimensions, weights

Wilo-Sub TWU ...	ND	H		H ₁		H ₂		Weight ¹⁾	
		1~230 V, 50 Hz	3~400 V, 50 Hz	1~230 V, 50 Hz	3~400 V, 50 Hz	1~230 V, 50 Hz	3~400 V, 50 Hz	1~230 V, 50 Hz	3~400 V, 50 Hz
	Ø	[mm]						[kg]	
4-0211-QC	Rp 1 ¹ / ₄	727	708	485	485	242	223	11.7	10.7
4-0216-QC	Rp 1 ¹ / ₄	856	827	585	585	271	242	13.6	12.7
4-0222-QC	Rp 1 ¹ / ₄	1004	976	705	705	299	271	15.5	14.3
4-0232-QC	Rp 1 ¹ / ₄	1227	1199	900	900	327	299	18.1	16.8
4-0405-QC	Rp 1 ¹ / ₄	–	653	–	430	–	223	–	11.0
4-0407-QC	Rp 1 ¹ / ₄	766	737	495	495	271	242	13.2	11.9
4-0410-QC	Rp 1 ¹ / ₄	889	861	590	590	299	271	15	13.8
4-0415-QC	Rp 1 ¹ / ₄	1077	1049	750	750	327	299	17.4	16.1
4-0420-QC	Rp 1 ¹ / ₄	–	1242	–	915	–	327	–	18.5
4-0430-QC	Rp 1 ¹ / ₄	–	1591	–	1235	–	356	–	22.1
4-0804-QC	Rp 2	794	766	495	495	299	271	14.1	12.9
4-0806-QC	Rp 2	–	899	–	600	–	299	–	14.7
4-0812-QC	Rp 2	1376	1271	–	915	–	356	–	19.2
4-0817-QC	Rp 2	–	1603	–	1180	–	423	–	23.3

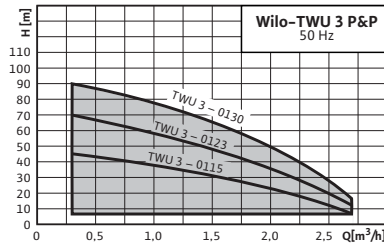
¹⁾ without packaging

Building Services/Domestic Water Supply

Domestic water supply

Series overview Wilo-Sub TWU 3 P&P/TWU 3 Basic P&P, TWU 4 P&P, accessories

Series: Wilo-Sub TWU 3 Plug & Pump/TWU 3 Basic Plug & Pump



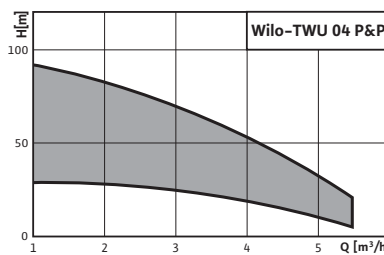
> Water supply packages with submersible pump for

- Water supply from boreholes, wells and cisterns
- Domestic water supply, sprinkling and irrigation
- Pumping water without long-fibre and abrasive constituents

Fig.: Version Sub-I



Series: Wilo-Sub TWU 4 Plug & Pump



> Submersible motor pump for self-sufficient water supply in the domestic sector

- Washing machines
- Garden sprinkling
- Transferring by pumping and filling
- Toilet flushing tanks
- Extraction points for cleaning

Fig.: Version Sub-II



Accessories



- Cooling jacket pipes
- Switchgears
- Diaphragm pressure vessel
- Connection accessories
- etc.

Series overview Wilo-Sub TWU 3 P&P/TWU 3 Basic P&P, TWU 4 P&P

Series: Wilo-Sub TWU 3 Plug & Pump / TWU 3 Basic Plug & Pump

> Product advantages

- Electrical system components prewired for installation
- Easy installation and operation
- Integrated non-return device

> Additional information:

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• Pump curves, dimensions, weights	45

Series: Wilo-Sub TWU 4 Plug & Pump

> Product advantages

- Simple assembly, installation and operation
- Reliable motor, due to high starting torque and shake-free function
- Lightning and overload protection built into the motor
- Integrated non-return device

> Additional information:

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Accessories

Building Services/Domestic Water Supply

Domestic water supply

Equipment/Function Wilo-Sub TWU 3 P&P/TWU 3 Basic P&P, TWU 4 P&P

	Wilo-Sub...	
	TWU 3 Plug & Pump/ TWU 3 Basic Plug & Pump	TWU 4 Plug & Pump
Hydraulics		
Totally immersed, multistage submersible motor pump	•	•
Integrated non-return device	•	•
Radial impellers	•	•
Semi-axial impellers	–	–
NEMA coupling	•	•
Motor		
EM (single-phase AC motor)	•	–
EMSC (AC motor with starting capacitor)	–	–
2-wire plug & run motor (single-phase AC motor)	–	•
DM (three-phase motor, direct starting)	–	–
Integrated thermal motor protection ¹⁾	•	•
Integrated lightning protection	–	•
Rewindable motors	•	–
Encapsulated motor	–	•
Equipment		
Dry-running protection	–	• 3)
Cable length [m] depending on type	30	30
Cable cross-section [mm ²]	4 x 1.5	4 x 1.5
Options		
Version in bronze	–	–
Star/delta motor version	–	–
Motors in stainless steel 316-version	–	–
Motors with PT 100	–	–
Scope of delivery		
Hydraulics completely installed with the motor	•	–
Switchbox with capacitor ¹⁾	•	–
Corrosion-free safety rope	•	•
Installation parts	•	•
Cable binders	–	•
Wilo-FluidControl (for automatic operation)	• 3)	• 3)
Wilo pressure switching with diaphragm pressure vessel	• 2)	• 2)
Installation and operating instructions	•	•

• = standard version, – = not available

¹⁾ for AC EM version

²⁾ with Sub II package

³⁾ with Sub II package

Version overview Wilo-Sub TWU 3 P&P/TWU 3 Basic P&P, TWU 4 P&P

		Wilo-Sub...	
		TWU 3 Plug & Pump/ TWU 3 Basic Plug & Pump	TWU 4 Plug & Pump
Hydraulics material			
Impellers	Cast iron (EN-GJL200)	–	–
	Plastic	•	•
	Bronze	–	–
	Stainless steel 1.4301 (AISI 304)	–	–
	Stainless steel 1.4404 (AISI 316L)	–	–
Stage housing	Cast iron (EN-GJL200)	–	–
	Stainless steel 1.4301 (AISI 304)	–	–
	Stainless steel 1.4404 (AISI 316L)	–	–
	Plastic	•	•
Suction housing	Stainless steel 1.4301 (AISI 304)	•	•
	Brass	•	–
Non-return valve	Bronze	–	–
	Plastic	•	•
	Stainless steel 1.4301 (AISI 304)	–	–
	Stainless steel 1.4404 (AISI 316L)	–	–
Shaft	Stainless steel AISI 430 F	•	•
	Stainless steel 1.4301 (AISI 304)	–	–
	Steel 1.4006 (AISI 410)	–	–
Pump housing	Stainless steel 1.4301 (AISI 304)	•	•
Motor material			
Motor housing	Stainless steel 1.4301 (AISI 304)	•	•
	Stainless steel 1.4571 (AISI 316 Ti)	–	–
Shaft end	Stainless steel 1.4305 (AISI 303)	•	•
	Stainless steel 1.4460 (AISI 329)	–	–

• = standard version, – = not available

Building Services/Domestic Water Supply

Domestic water supply

Version overview Wilo-Sub TWU 3 P&P/TWU 3 Basic P&P, TWU 4 P&P

	Wilo-Sub...	
	TWU 3 Plug & Pump/ TWU 3 Basic Plug & Pump	TWU 4 Plug & Pump
Motor versions		
3" direct starting, rewindable	•	–
4" encapsulated, direct starting, cast stator	–	•
1~230 V EM	•	–
1~230 V-50 Hz EMSC	–	–
1~230 V-50 Hz 2-wire (plug & run)	–	•
1~230 V-60 Hz	optional	–
1~230 V-60 Hz 2-wire (plug & run)	–	optional
3~380-415 V-50 Hz	optional	–
3~500 V-50 Hz	–	–
3~230 V-50 Hz	optional	–
3~230 V-60 Hz	–	–
3~380 V-60 Hz	optional	–
3~460 V-60 Hz	–	–
PT 100	–	–

• = standard version, – = not available

Please note that certain combinations of options may not be possible under certain circumstances.

Technical data Wilo-Sub TWU 3 P&P/TWU 3 Basic P&P, TWU 4 P&P

	Wilo-Sub	
	TWU 3 Plug & Pump/ TWU 3 Basic Plug & Pump	TWU 4 Plug & Pump
	01...	04...
Approved fluids		
Pure water without settling sediment	•	•
Rainwater	–	•
Performance (with 50 Hz operation)		
Flow volume maximum [m ³ /h]	2.6	5.5
Maximum delivery head [m]	125	93
Fluid temperature ¹⁾ [°C]	+ 3 to +40	+3 to +30
Immersion depth maximum [m]	60	200
Sand content maximum [g/m ³]	40	50
Minimum water speed [cm/s]	8	8
Starts per hour, maximum	20	20
Voltage tolerance, maximum [%]	–10 to +10	–10 to +10
Motor		
Electrical connection 1~ [V/Hz]	230/50	230/50
Electrical connection 3~ [V/Hz]	–	–
Insulation class	F	B
Protection class	IP 58	IP 68
Connections		
Discharge pipe line [Rp]	1	1 1/4

• = standard version, – = not available

¹⁾ Depending on the motor size. Other application limits on request

Building Services/Domestic Water Supply

Domestic water supply

Series description Wilo-Sub TWU 3 P&P/TWU 3 Basic P&P



Wilo-Sub TWU 3 P&P
Sub-I



Wilo-Sub TWU 3 P&P

Wilo-Sub TWU 3 Plug & Pump/TWU 3 Basic Plug & Pump

Water supply system with submersible motor pump

Type key

Example: **Wilo-Sub TWU 3-0115 PnP EM/FC**

TWU	Submersible motor pump
3	Minimum diameter borehole \varnothing 3" = DN 80 Motor \varnothing maximum 72 mm Pumps \varnothing maximum 74 mm
01	Nominal flow volume [m ³ /h]
15	Number of pump stages
PnP	Plug & Pump
EM	AC 1~230 V, 50 Hz with capacitor
/FC	FluidControl

Application

In the domestic sector, water supply for washing machines, garden sprinkling, transferring by pumping, filling, extraction points for cleaning, toilet flushing.

Versions/scope of delivery

Sprinkler package **TWU 3 Plug & Pump Sub-I**

for garden irrigation of domestic greenery in the domestic sector.

Consisting of:

- 3" submersible motor pump TWU 3-01... EM or TWU 3 Basic ... EM in AC EM version (1~230 V) with 30 m connection cable
- Pump housing made of stainless steel, pump stages made of plastic (Noryl)
- Wilo-FluidControl, automatic flow and pressure monitor with built-in dry-running protection
- Safety rope 30 m made of polypropylene with rope clamps made of stainless steel
- Packing dimensions (L x W x H) in mm:
1280 x 155 x 110 (TWU 3-0115)
1660 x 155 x 110 (TWU 3-0123)
1900 x 155 x 110 (TWU 3-0130)

Sprinkler package **TWU 3 Plug & Pump Sub-II** for self-sufficient water supplies in single-family and multi-family houses. Consisting of:

- 3" submersible motor pump TWU 3-01... EM or TWU 3 Basic ... EM in AC EM version (1~230 V) with 30 m connection cable
- Pump housing made of stainless steel, pump stages made of plastic (Noryl)
- Wilo pressure switching 0 – 10 bar including 18 l diaphragm expansion tank, pressure gauge, shut-off device and pressure switch
- Safety rope 30 m made of polypropylene with rope clamps made of stainless steel
- Packing dimensions (L x W x H) in mm:
1280 x 155 x 110 (TWU 3-0115)
1660 x 155 x 110 (TWU 3-0123)
1900 x 155 x 110 (TWU 3-0130)

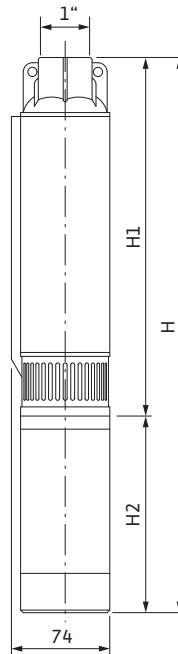
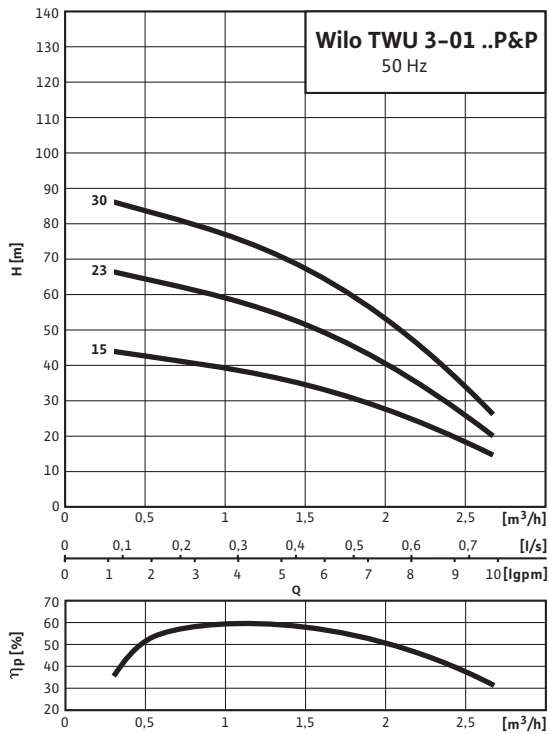
Pump curves, motor data, dimensions, weights Wilo-Sub TWU 3 P&P/TWU 3 Basic

Wilo-Sub TWU 3-0115 to TWU-0130 Plug & Pump

Dimension drawing

1~230 V

2-pole/50 Hz



Motor data TWU 3/TWU 3 Basic

Wilo-Sub TWU ...	Nominal power P_2	Nominal current I_N	Cable length	Cable cross-section
	[kW]	[A]	[m]	[mm ²]
3-115 EM	0.37	3.75	30	4 x 1.5
3-123 EM	0.55	4.50	30	4 x 1.5
3-130 EM	0.75	5.85	30	4 x 1.5

Dimensions, weights

Wilo-Sub TWU ...	H1	H2	H	Weight ¹⁾
		[mm]	[mm]	[kg]
3-115 EM	580	377	957	9.3
3-123 EM	780	397	1177	10.8
3-130 EM	1000	416	1416	12.4

¹⁾ without packaging

Building Services/Domestic Water Supply

Domestic water supply

Series description Wilo-Sub TWU 4 P&P



Wilo-Sub TWU 4 P&P Sub-I



Wilo-Sub TWU 4 P&P Sub-II

Wilo-Sub TWU 4 Plug & Pump

Water supply system with submersible pump

Type key

Example: **Wilo-Sub TWU 4-0405 PnP/FC**

TWU	Submersible pump
4	Minimum diameter Borehole \varnothing 4" = DN 100 Motor \varnothing maximum 96 mm Pumps \varnothing maximum 98 mm
04	Nominal flow volume [m ³ /h]
05	Number of pump stages
PnP	Plug & Pump
/FC	FluidControl
/DS	Pressure switching

Application

In the domestic sector, water supply for washing machines, garden sprinkling, transferring by pumping, filling, extraction points for cleaning, toilet flushing.

Versions/scope of delivery

Sprinkler package **TWU 4 Plug & Pump Sub-I** for garden irrigation of domestic greenery in the individual households.

Consisting of:

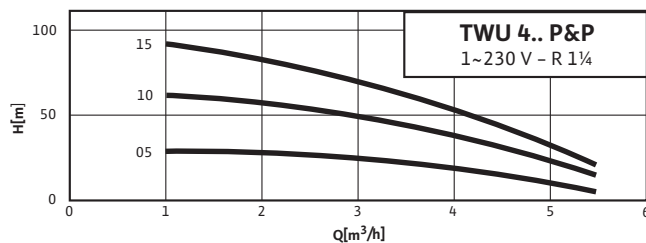
- 4" Submersible motor pump TWU 4-0405 EM or TWU 4-0410 EM in AC EM version (1~230 V) with 30 m connection cable (motor and hydraulics not installed at time of delivery)
- Pump housing made of stainless steel, pump stages made of plastic (Noryl)
- Wilo-FluidControl, automatic flow and pressure monitor with built-in dry-running protection
- Safety rope 30 m made of polypropylene with rope clamps made of stainless steel
- Installation parts: 2 x Clamp ring screwed connections, reducer R 1¹/₄ – R1, 8 x cable binders, Installation and operating instructions
- Packing dimensions (L x W x H) in mm: 750 x 300 x 400

Sprinkler package **TWU 4 Plug & Pump Sub-II** for self-sufficient water supplies in single-family and multi-family houses. Consisting of:

- 4" Submersible motor pump TWU 4-0405 EM or TWU 4-0410 EM or TWU 4-0415 EM in AC EM version (1~230 V) with 30 m connection cable (motor and hydraulics not installed at time of delivery)
- Pump housing made of stainless steel, pump stages made of plastic (Noryl)
- Wilo pressure switching 0 – 10 bar including 18 l diaphragm expansion tank, pressure gauge, shut-off device and pressure switch
- Safety rope 30 m made of polypropylene with rope clamps made of stainless steel
- Installation parts: T-piece, reducer R 1¹/₄ – R1, 8 x cable binders, Installation and operating instructions
- Packing dimensions (L x W x H) in mm: 750 x 300 x 400

Pump curves, motor data, weights Wilo-Sub TWU 4 P&P

Wilo-Sub TWU 4 Plug & Pump



Motor data, weights

Wilo-Sub TWU ...	Packet Sub	Nominal power P_2	Nominal current I_N	Weight
		[kW]	[A]	
4-0405 EM	I	0.37	4.1	18.1
4-0410 EM	I	0.75	7.6	20.4
4-0405 EM	II	0.37	4.1	22.9
4-0410 EM	II	0.75	7.6	25.2
4-0415 EM	II	1.10	10.6	27.5

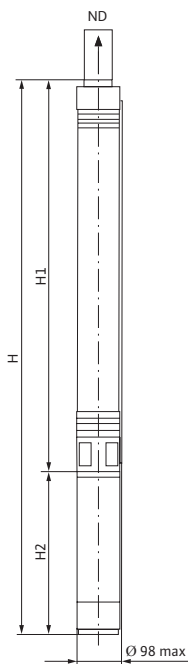
Building Services/Domestic Water Supply

Domestic water supply

Dimensions Wilo-Sub TWU 4 P&P

Dimension drawing

Wilo-Sub TWU 4 (2-pole/50 Hz)



Dimensions				
Wilo-Sub TWU ...	ND	H	H ₁	H ₂
	Ø		1~230 V [mm]	
4-0405 EM	Rp 1 ¹ / ₄	672	430	242
4-0410 EM	Rp 1 ¹ / ₄	889	590	299
4-0415 EM	Rp 1 ¹ / ₄	1077	750	327

Secondary hot water supply

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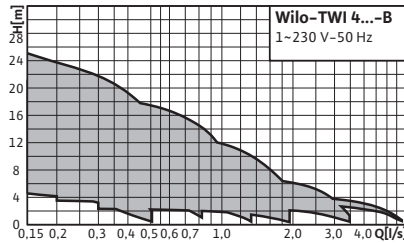
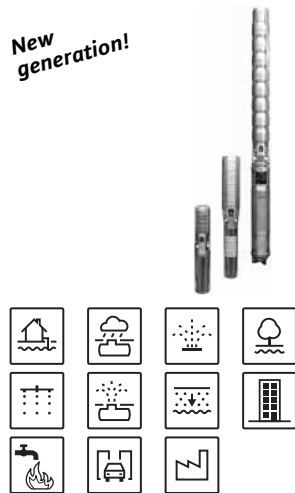
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Building Services/Domestic Water Supply

Secondary hot water supply

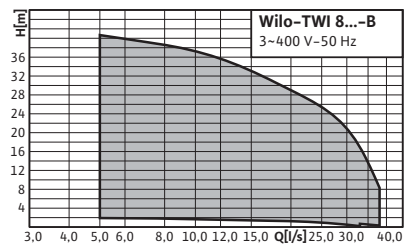
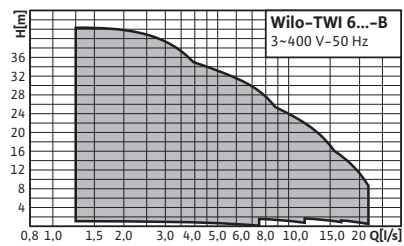
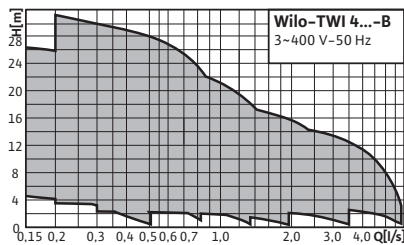
Series overview Wilo-Sub TWI 4...-B, TWI 6...-B, TWI 8...-B

Series: Wilo-Sub TWI 4...-B, TWI 6...-B, TWI 8...-B



> Submersible pump for borehole applications and cisterns

- for municipal water supply, sprinkling and irrigation, pressure boosting, lowering of the ground water level, industrial application
- for pumping water without long-fibre and abrasive constituents





Series overview Wilo-Sub TWI 4...-B, TWI 6...-B, TWI 8...-B

Series: Wilo-Sub TWI 4...-B, TWI 6...-B, TWI 8...-B

> Product advantages

- Corrosion-free pump (stainless steel)
- Simple maintenance due to rapid installation and dismantling
- High-quality coupling
- Integrated non-return device
- Vertical or horizontal installation possible

> Additional information:

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Building Services/Domestic Water Supply

Secondary hot water supply

Equipment/Function Wilo-TWI 4...-B, TWI 6...-B, TWI 8...-B			
	Wilo-Sub...		
	TWI 4...-B	TWI 6...-B	TWI 8...-B
Hydraulics			
Totally immersed, multistage submersible motor pump	•	•	•
Integrated non-return device	•	•	•
Radial impellers	•	•	–
Semi-axial impellers	–	•	•
NEMA coupling	•	•	•
Motor			
EM (single-phase AC motor)	•	–	–
DM (three-phase motor)	•	•	•
Encapsulated motor	•	•	•
Rewindable motors	–	optional	optional
Equipment			
Cable length [m] depending on type	1.5	1.5/ 5/8	4/8
Cable cross-section [mm ²]	4 x 1.5	4 x 1.5 to 4x8.4	4x8.4
Options			
Star/delta motor version	–	optional	optional
Motors in stainless steel 316-Version EM DM	– optional	optional	optional
Motors with temperature monitoring PT100	–	optional	optional
Hydraulics as version 316	optional	optional	optional
Special cable lengths	optional	optional	optional
Scope of delivery			
Hydraulics completely installed with the motor	•	•	•
Switchbox with capacitor EM DM	• –	–	–
Installation and operating instructions	•	•	•

• = standard version. – = not available

¹⁾ for AC EM version,

²⁾ for Sub II package,

³⁾ with Sub I package

Version overview Wilo-Sub TWI 4...-B, TWI 6...-B, TWI 8...-B

		Wilo-Sub...			
		TWI 4...-B	TWI 6...-B	TWI 8...-B	
Material Hydraulics (overall size-dependent)					
Impellers	Stainless steel 1.4301 (AISI 304)	•	•	•	
	Stainless steel 1.4571 (AISI 316Ti)	optional	optional	optional	
Pump housing	Stainless steel 1.4301 (AISI 304)	•	•	•	
	Stainless steel 1.4401 (AISI 316)	optional	optional	optional	
Suction piece	Stainless steel 1.4301 (AISI 304)	•	•	•	
	Stainless steel 1.4401 (AISI 316)	optional	optional	optional	
Non-return valve housing	Stainless steel 1.4301 (AISI 304)	•	•	•	
	Stainless steel 1.4401 (AISI 316)	optional	optional	optional	
Pump shaft	Stainless steel 1.4057 (AISI 431)	•	•	•	
	Stainless steel 1.4401 (AISI 316)	optional	optional	optional	
Motor material					
		4" EM	4" DM	6"	8"
Motor housing	EN-GJL	–	–	•	•
	Stainless steel 1.4301 (AISI 304)	•	•	–	–
	Stainless steel 1.4401 (AISI 316)	–	optional	–	optional
Motor casing	Stainless steel 1.4301 (AISI 304)	•	•	•	•
	Stainless steel 1.4401 (AISI 316)	–	–	–	optional
	Stainless steel 1.4571 (AISI 316Ti)	–	optional	optional	–
Motor shaft	Stainless steel 1.4305 (AISI 303)	•	•	•	•
	Stainless steel 1.4542 (17-4 PH)	–	optional	optional	optional

• = standard version, – = not available

Please note that certain combinations of options may not be possible under certain circumstances.

Building Services/Domestic Water Supply

Secondary hot water supply

Series description Wilo-Sub TWI 4...-B, TWI 6...-B, TWI 8...-B



Wilo-Sub TWI 4...-B, TWI 6...-B, TWI 8...-B
Submersible pumps

Type key (Standard versions)

Example: **Wilo-Sub TWI 4.01-09-B EM**

TWI	Submersible pump
4	Minimum diameter Borehole \varnothing 4" = DN 100 Pumps \varnothing maximum 98 mm
01	Nominal flow volume [m ³ /h]
-09	Number of pump stages
-B	Pump generation
EM	AC 1~230 V, 50 Hz, with capacitor
DM	Three-phase current 3~400 V, 50 Hz
SD	Three-phase current; Star/delta start-up (only 6" motors)

Type key (configurable versions)

Hydraulics

Example: **Wilo-Sub TWI 06.18-10-NB**

TWI	Submersible pump
0	Configurable version
6	Minimum diameter Borehole \varnothing 6" Pumps \varnothing maximum 152 mm
18	Nominal flow volume [m ³ /h]
-10	Number of pump stages
-N	Impeller \varnothing normal version
-S	Impeller \varnothing special version
B	Pump generation

Motor

Example: **NU 60-2/61**

NU	Submersible motor
60	Overall size
-2	Number of poles
/61	Package length

Series description Wilo-Sub TWI 4...-B, TWI 6...-B, TWI 8...-B

Application

Water supply from boreholes with a minimum diameter of 4" (= DN 100) and a maximum immersion depth of up to 350 metres. Submersible motor pump for water and secondary hot water supplies from boreholes and cisterns, for industrial water supplies, sprinkling and irrigation.

Pumping of water without long-fibre and abrasive constituents within the limitations of the specified minimums and maximums.

Construction

Hydraulics

Coupling and flange usable for motors with pumps, installation dimensions in compliance with NEMA standards. Built-in non-return valve in the pump head. Oversized intermediate bearing in each stage, specially designed to optimise the shaft bearings. Easily replaceable wear rings and bearings. Sturdy cable protection. Optimised hydraulics components for achieving high efficiency. High resistance against corrosion and abrasion, due to the qualities of the stainless steel. Easy servicing due to simple dismantling and installation characteristics of the aggregate unit.

Motor

Corrosion-free single-phase AC or three-phase motor with enamelled windings in hermetically cast stator for direct starting. Sealed cast stator, resin-saturated, self-lubricating bearings. Motor cooling is effected by the temperature and flow velocity of the pumped liquid outside of the motor.

Scope of delivery

Submersible motor pump with integrated non-return valve, pump with 1.5 m or 2.5 m long, detachable connection cable (VDE/KTW) 4 x 1.5 mm² cable cross-section.

AC EM version including switchbox with capacitor. Thermal motor protection (only EM version) and On/Off switch.

Includes packaging in addition to installation and operating instructions.

Options

- Hydraulics in stainless steel 316L
- Motor in stainless steel 316L
- 1~230 V 2-wire-Motor (to 1.1 kW):
No start-up device required, lightning protection and overload protection built into the motor.
- 60 Hz motor

Accessories

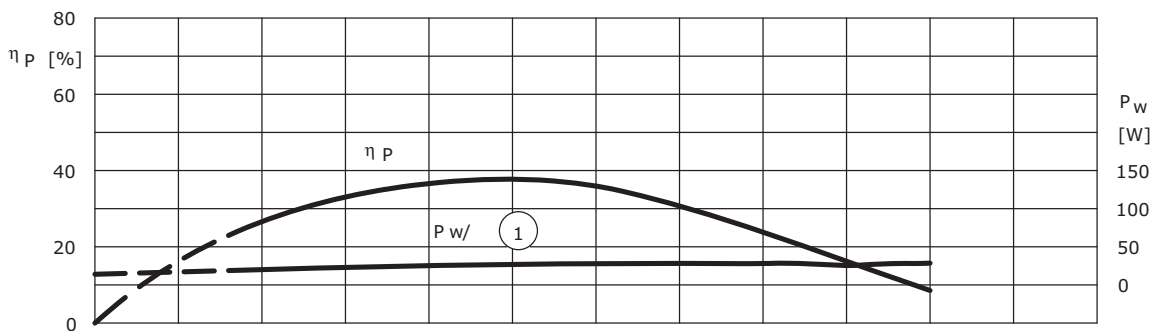
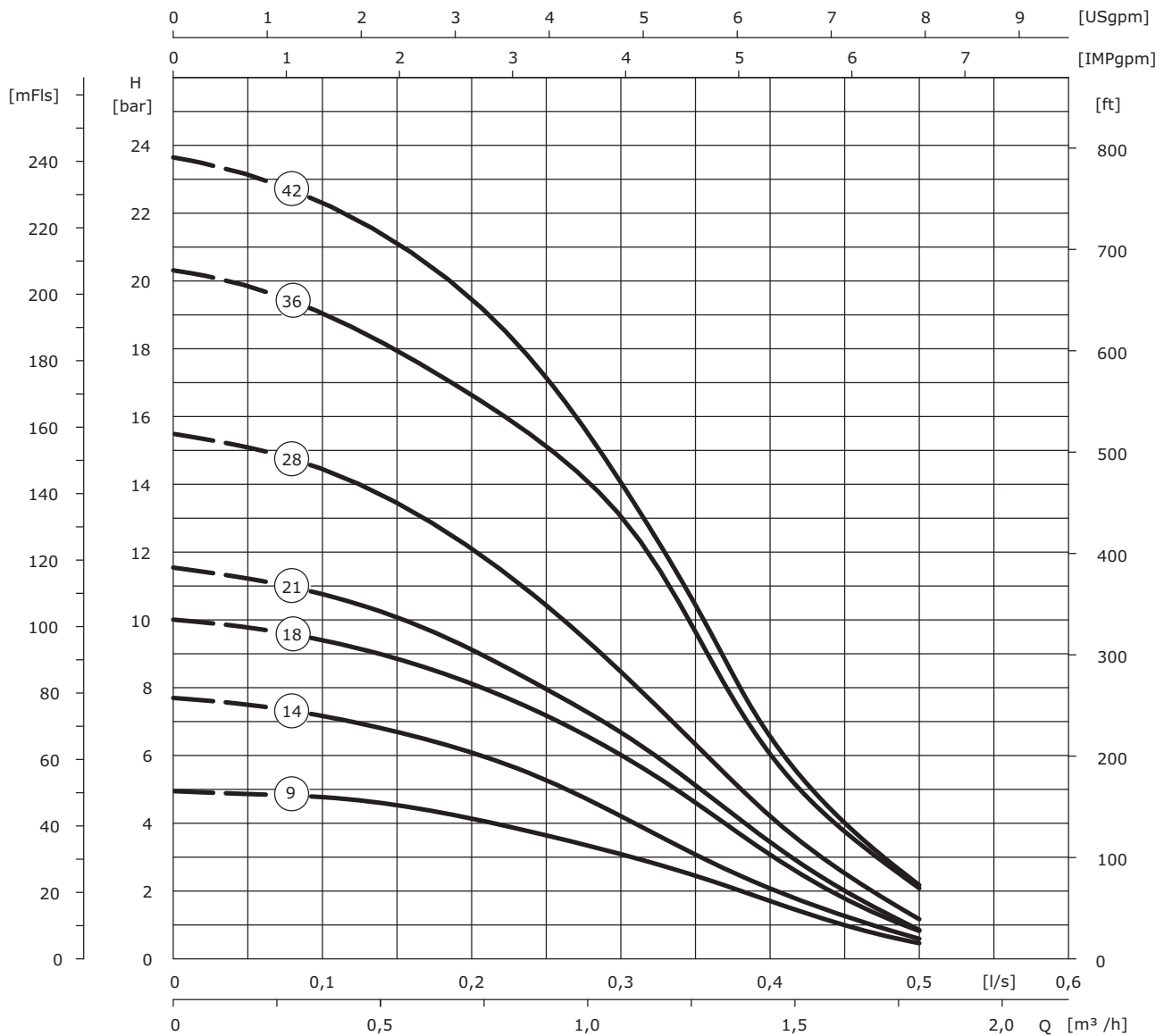
Starting on page 176.

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 4.01...-B (1~230 V)

Wilo-Sub TWI 4.01...-B



230 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 4.01...-B (1~230 V)

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _w	I	-
				[kW]	[A]	[kW]	[A]	-
TWI 4.01-09-B	9	L	EM	0.37	3.20	0.27	2.70	V+H
TWI 4.01-14-B	14	L	EM	0.55	4.30	0.47	4	V+H
TWI 4.01-18-B	18	L	EM	0.55	4.30	0.52	4.20	V+H
TWI 4.01-21-B	21	L	EM	0.75	5.70	0.61	5.50	V+H
TWI 4.01-28-B	28	L	EM	1.10	8.60	0.85	8	V+H
TWI 4.01-36-B	36	C	EM	1.10	8.60	1.10	8.60	V+H
TWI 4.01-42-B	42	C	EM	1.50	10.60	1.40	10.40	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	PN ₁	L	max. ø					
	[mm]	[bar]	[mm]		[kg]				
TWI 4.01...-B	Rp 1 1/4 I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-

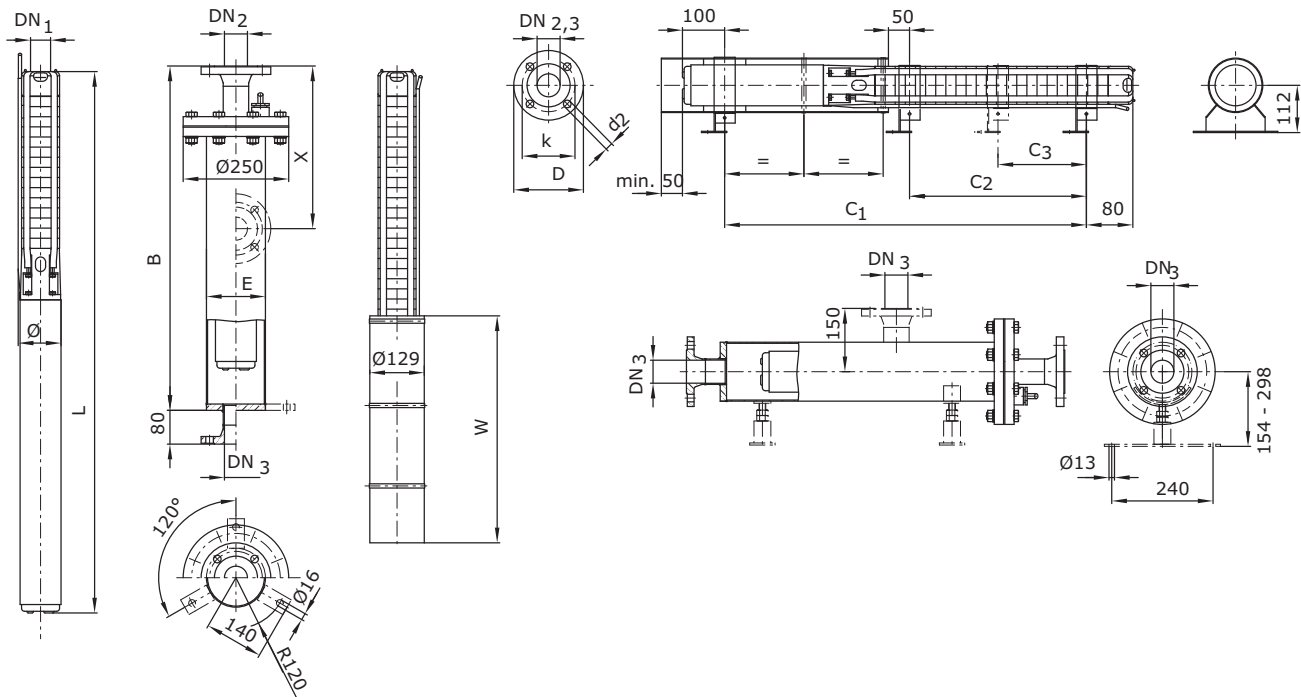
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 4.01...-B (1~230 V)

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 4.01-09-B	EM	920	-	139.7	585	98	11.7	33
TWI 4.01-14-B	EM	1220	-	139.7	719	98	13.9	36
TWI 4.01-18-B	EM	1220	-	139.7	803	98	14.7	36
TWI 4.01-21-B	EM	1220	-	139.7	894	98	16.8	36
TWI 4.01-28-B	EM	1520	-	139.7	1069	98	19.4	38
TWI 4.01-36-B	EM	1820	-	139.7	1273	98	21.5	41
TWI 4.01-42-B	EM	1820	-	139.7	1427	98	25.2	41

Accessories Wilo-Sub TWI 4.01...-B (1~230 V)

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
	–	horizontal	vertical	W	C ₁	C ₂	C ₃	R
	–			[mm]				
TWI 4.01-09-B	EM	6 037 935	4 064 430	500	405	–	–	–
TWI 4.01-14-B	EM	6 037 901	4 064 430	500	539	208	–	–
TWI 4.01-18-B	EM	6 037 901	4 064 430	500	633	302	–	–
TWI 4.01-21-B	EM	6 037 901	4 064 430	500	714	355	–	–
TWI 4.01-28-B	EM	6 037 936	4 064 431	750	918	502	–	–
TWI 4.01-36-B	EM	6 037 936	4 064 431	750	1121	705	–	–
TWI 4.01-42-B	EM	6 037 936	4 064 431	750	1275	831	–	–

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.01...-B	Rp 1¼ I	–	–	10-40	–	–	–	–	–
	–	DN 50	DN 50	–	10-40	10	4x18	125	165

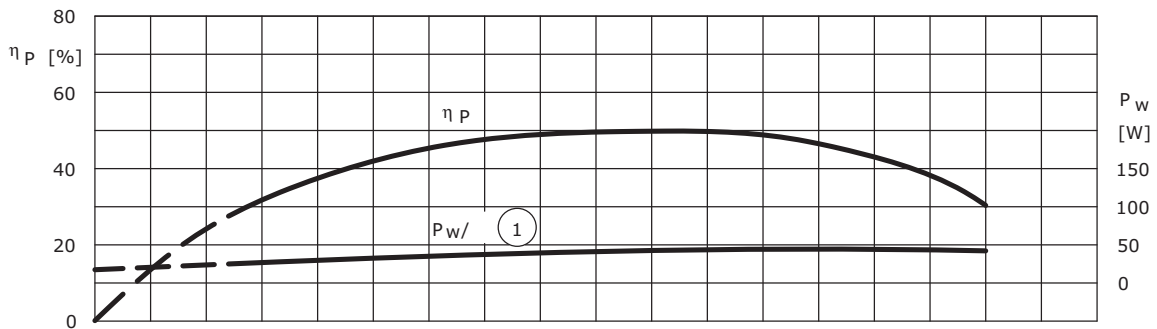
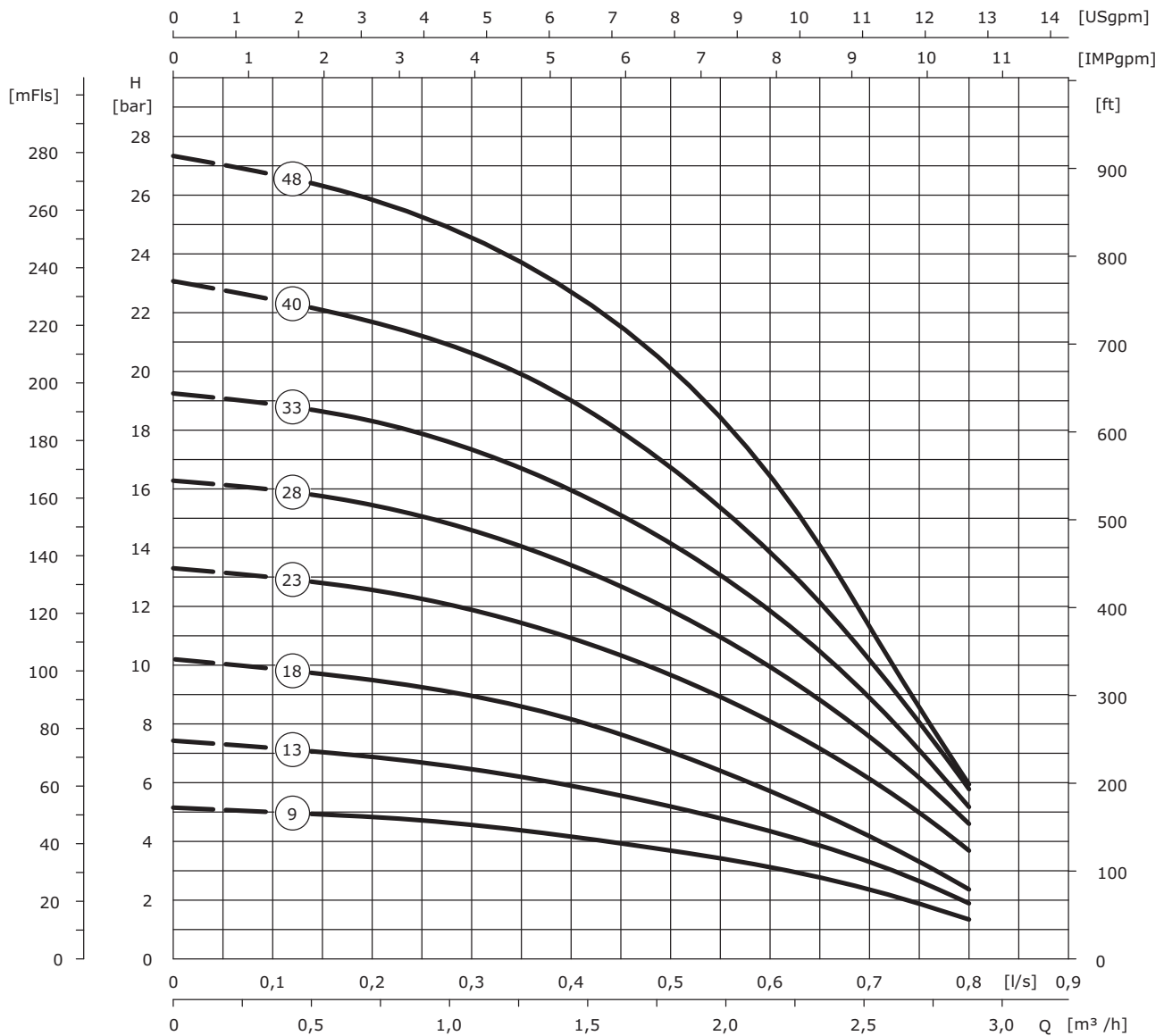
Pump with non-return valve, ¹⁾ On request, ²⁾ –, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 4.02...-B (1~230 V)

Wilo-Sub TWI 4.02...-B



230 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 4.02...-B (1~230 V)

Technical data

Wilo-Sub...	No.	Availability*	Motor type	Nominal power	Nominal current	Shaft power	Current for power requirement of the shaft	Inst.
				P_2	I_N	P_w	I	
				[kW]	[A]	[kW]	[A]	
TWI 4.02-09-B	9	L	EM	0.55	4.30	0.49	4.10	V+H
TWI 4.02-13-B	13	L	EM	0.75	5.70	0.60	5.50	V+H
TWI 4.02-18-B	18	L	EM	1.10	8.60	0.85	8	V+H
TWI 4.02-23-B	23	C	EM	1.10	8.60	1.10	8.60	V+H
TWI 4.02-28-B	28	C	EM	1.50	10.60	1.40	10.40	V+H
TWI 4.02-33-B	33	C	EM	1.50	10.60	1.50	10.60	V+H
TWI 4.02-40-B	40	C	EM	2.20	15.50	1.80	15	V+H
TWI 4.02-48-B	48	C	EM	2.20	15.50	2.10	15.40	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN_1	PN_1	L	max. ϕ	-				
	[mm]	[bar]	[mm]		[kg]	-			
TWI 4.02...-B	Rp 1 1/4 I	10-40	5)	5)	5)	5)	1	-	-

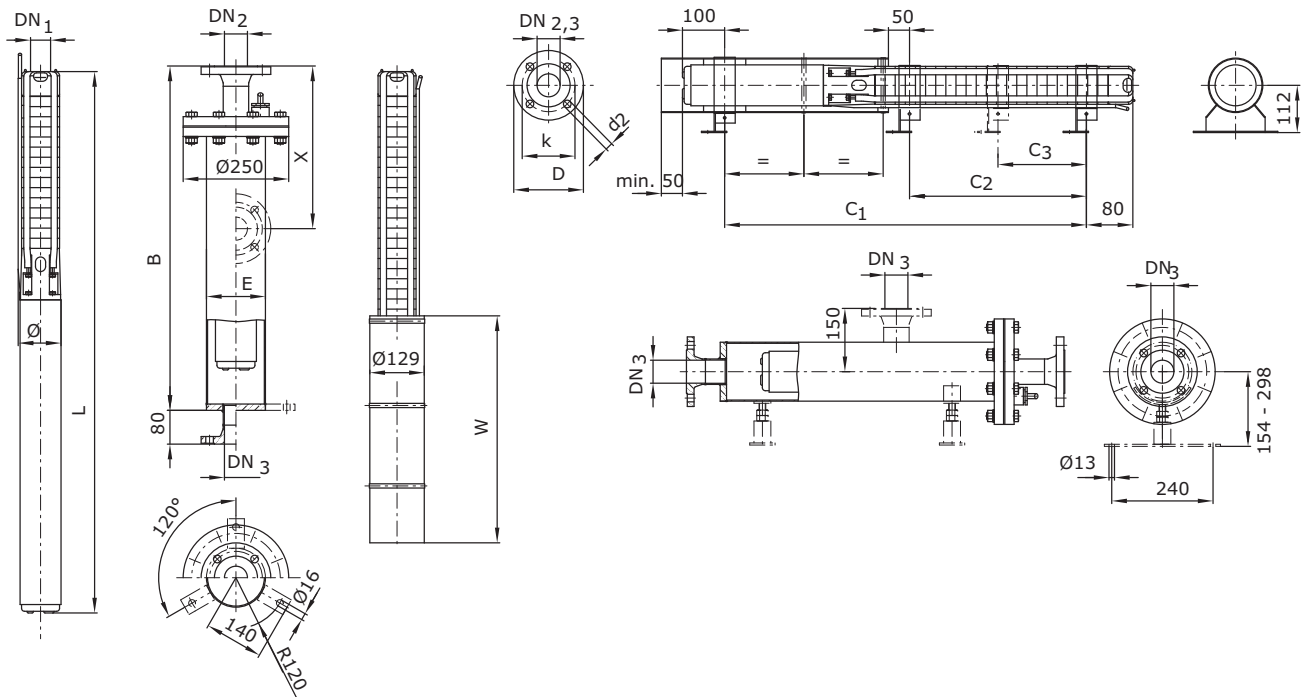
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 4.02...-B (1~230 V)

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 4.02-09-B	EM	920	-	139.7	614	98	12.8	33
TWI 4.02-13-B	EM	1220	-	139.7	726	98	15.2	36
TWI 4.02-18-B	EM	1220	-	139.7	860	98	17.3	36
TWI 4.02-23-B	EM	1520	-	139.7	965	98	18.4	38
TWI 4.02-28-B	EM	1520	-	139.7	1098	98	21.6	38
TWI 4.02-33-B	EM	1520	-	139.7	1203	98	22.4	38
TWI 4.02-40-B	EM	1820	-	139.7	1489	98	28.1	41
TWI 4.02-48-B	EM	2120	-	139.7	1657	98	29.4	41

Accessories Wilo-Sub TWI 4.02...-B (1~230 V)

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
	–	horizontal	vertical	W	C ₁	C ₂	C ₃	R
	–			[mm]				
TWI 4.02-09-B	EM	6 037 935	4 064 430	500	434	–	–	–
TWI 4.02-13-B	EM	6 037 935	4 064 430	500	546	–	–	–
TWI 4.02-18-B	EM	6 037 936	4 064 431	750	708	292	–	–
TWI 4.02-23-B	EM	6 037 936	4 064 431	750	813	397	–	–
TWI 4.02-28-B	EM	6 037 936	4 064 431	750	946	502	–	–
TWI 4.02-33-B	EM	6 037 936	4 064 431	750	1051	607	–	–
TWI 4.02-40-B	EM	6 037 936	4 064 431	750	1309	789	–	–
TWI 4.02-48-B	EM	6 037 936	4 064 431	750	1477	957	–	–

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.02...-B	Rp 1½ l	–	–	10-40	–	–	–	–	–
	–	DN 50	DN 50	–	10-40	10	4x18	125	165

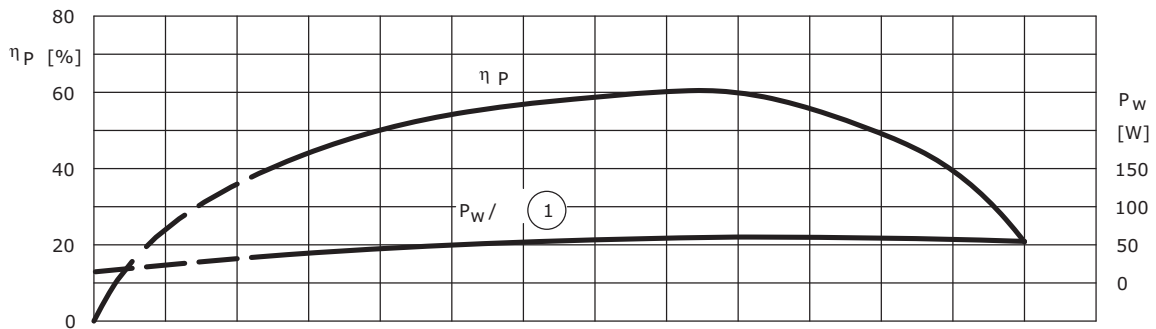
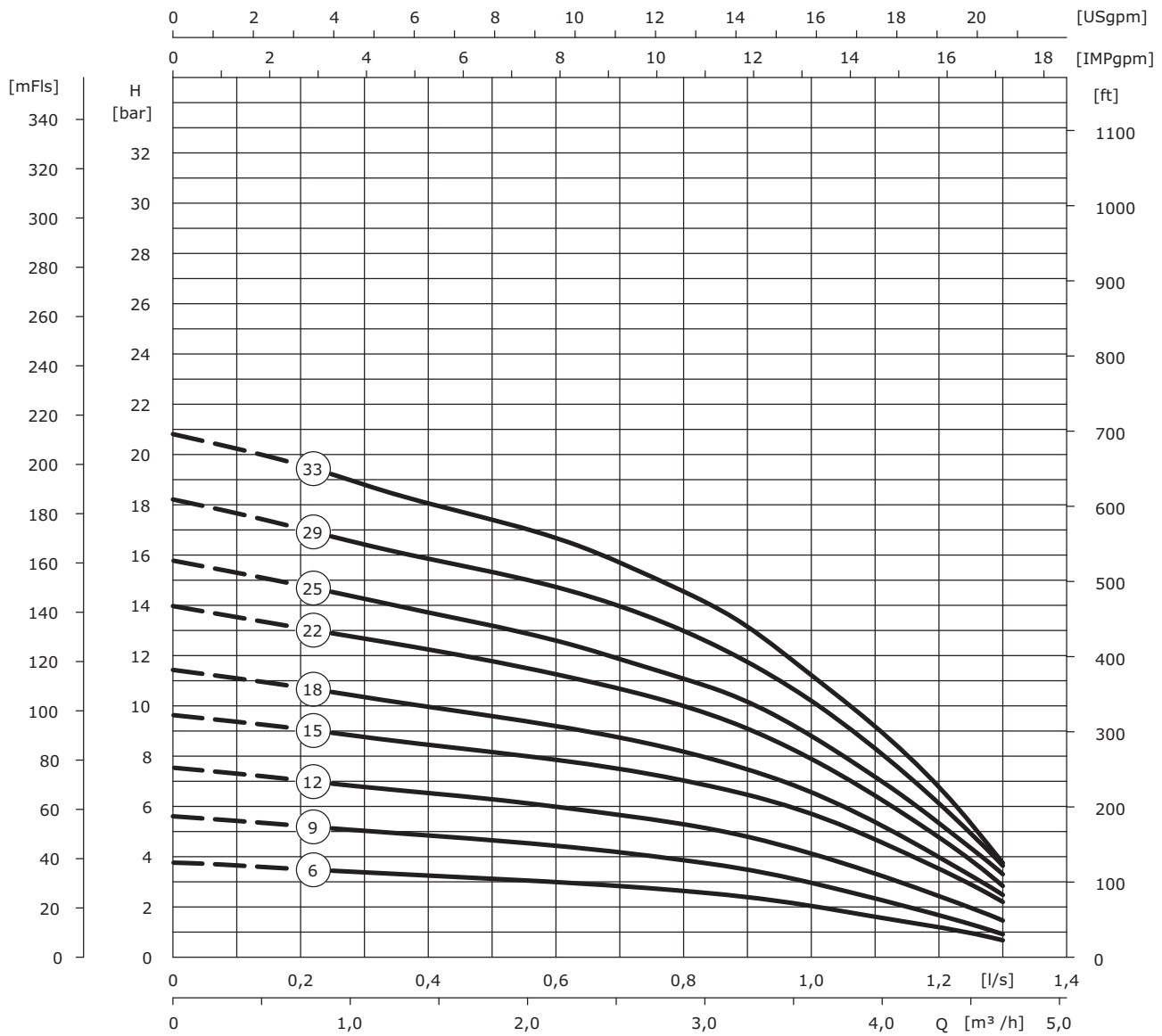
Pump with non-return valve, ¹⁾ On request, ²⁾ –, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 4.03...-B (1~230 V)

Wilo-Sub TWI 4.03...-B



230 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 4.03...-B (1~230 V)

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	
				[kW]	[A]	[kW]	[A]	
TWI 4.03-06-B	6	L	EM	0.55	4.30	0.43	4	V+H
TWI 4.03-09-B	9	L	EM	0.75	5.70	0.58	5.50	V+H
TWI 4.03-12-B	12	L	EM	1.10	8.60	0.81	8	V+H
TWI 4.03-15-B	15	L	EM	1.10	8.60	1	8.50	V+H
TWI 4.03-18-B	18	L	EM	1.50	10.60	1.20	10.30	V+H
TWI 4.03-22-B	22	L	EM	1.50	10.60	1.50	10.60	V+H
TWI 4.03-25-B	25	C	EM	2.20	15.50	1.70	14.90	V+H
TWI 4.03-29-B	29	C	EM	2.20	15.50	1.90	15.10	V+H
TWI 4.03-33-B	33	C	EM	2.20	15.50	2.10	15.40	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
			DN ₁	PN ₁						L	max. Ø
			[mm]	[bar]						[mm]	
TWI 4.03...-B	Rp 1½ I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-		

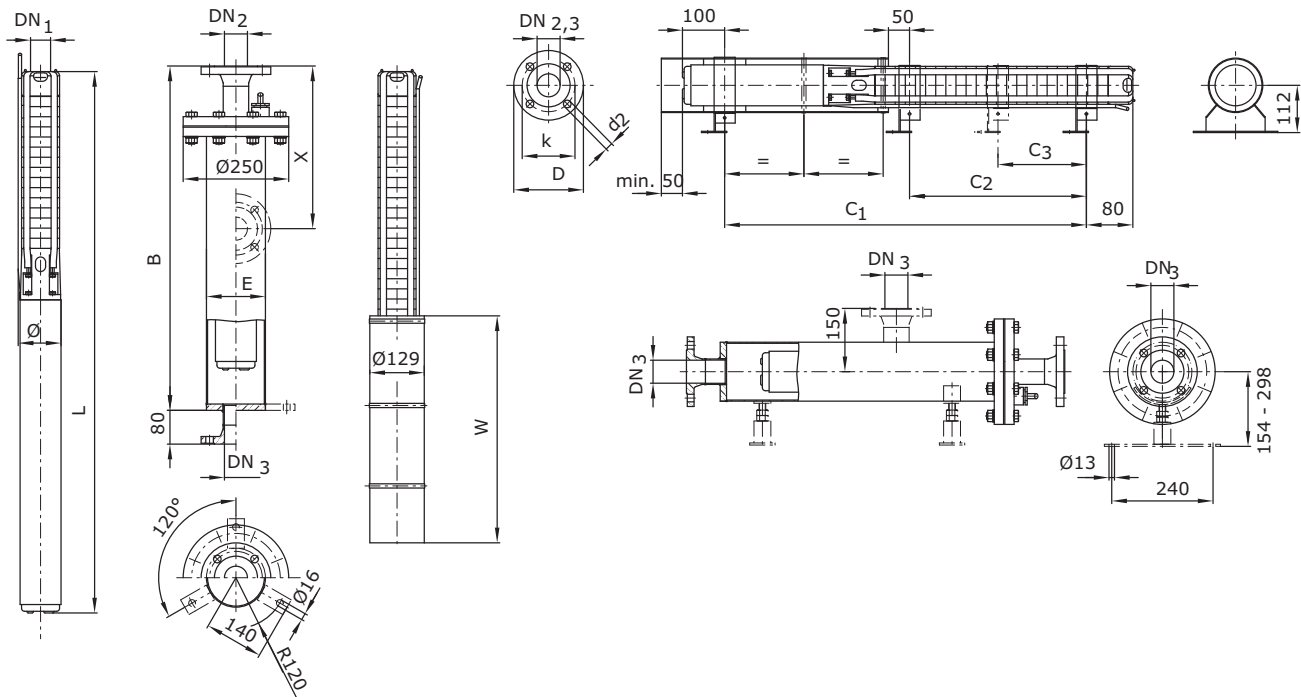
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. Ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 4.03...-B (1~230 V)

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 4.03-06-B	EM	920	-	139.7	551	98	12.2	33
TWI 4.03-09-B	EM	920	-	139.7	642	98	14.3	33
TWI 4.03-12-B	EM	1220	-	139.7	734	98	16.1	36
TWI 4.03-15-B	EM	1220	-	139.7	797	98	16.8	36
TWI 4.03-18-B	EM	1220	-	139.7	888	98	19.7	36
TWI 4.03-22-B	EM	1520	-	139.7	972	98	20.5	38
TWI 4.03-25-B	EM	1520	-	139.7	1139	98	24.5	38
TWI 4.03-29-B	EM	1520	-	139.7	1223	98	25.4	38
TWI 4.03-33-B	EM	1820	-	139.7	1307	98	26.1	41

Accessories Wilo-Sub TWI 4.03...-B (1~230 V)

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
		horizontal	vertical	W	C ₁	C ₂	C ₃	R
	-		-		[mm]			
TWI 4.03-06-B	EM	6 037 935	4 064 430	500	371	-	-	-
TWI 4.03-09-B	EM	6 037 935	4 064 430	500	462	-	-	-
TWI 4.03-12-B	EM	6 037 937	4 064 431	750	582	-	-	-
TWI 4.03-15-B	EM	6 037 936	4 064 431	750	645	229	-	-
TWI 4.03-18-B	EM	6 037 936	4 064 431	750	736	292	-	-
TWI 4.03-22-B	EM	6 037 936	4 064 431	750	820	376	-	-
TWI 4.03-25-B	EM	6 037 936	4 064 431	750	959	439	-	-
TWI 4.03-29-B	EM	6 037 936	4 064 431	750	1043	523	-	-
TWI 4.03-33-B	EM	6 037 936	4 064 431	750	1127	607	-	-

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.03...-B	Rp 1¼ l	-	-	10-40	-	-	-	-	-
	-	DN 50	DN 50	-	10-40	10	4x18	125	165

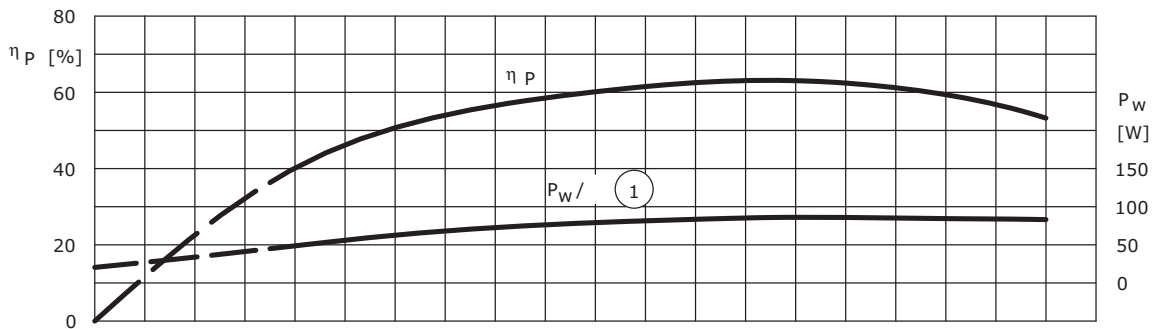
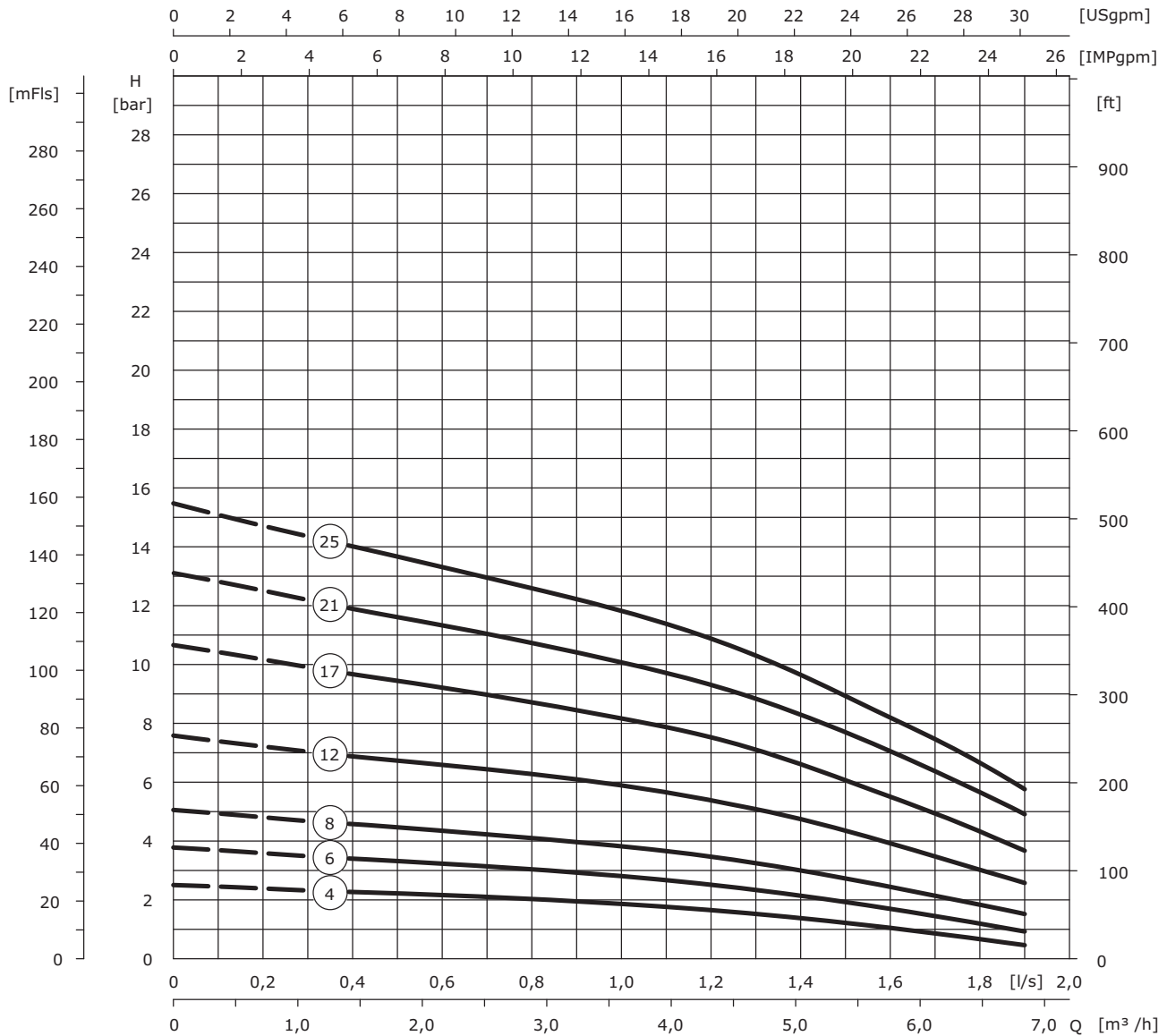
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 4.05...-B (1~230 V)

Wilo-Sub TWI 4.05...-B



230 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 4.05...-B (1~230 V)

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	-
				[kW]	[A]	[kW]	[A]	-
TWI 4.05-04-B	4	L	EM	0.55	4.30	0.38	3.90	V+H
TWI 4.05-06-B	6	L	EM	0.55	4.30	0.55	4.30	V+H
TWI 4.05-08-B	8	L	EM	0.75	5.70	0.75	5.70	V+H
TWI 4.05-12-B	12	L	EM	1.50	10.60	1.20	10.30	V+H
TWI 4.05-17-B	17	L	EM	2.20	15.50	1.60	14.80	V+H
TWI 4.05-21-B	21	L	EM	2.20	15.50	1.90	15.10	V+H
TWI 4.05-25-B	25	L	EM	2.20	15.50	2.20	15.50	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
			DN ₁	PN ₁						L	max. ϕ
			[mm]	[bar]						[mm]	[kg]
TWI 4.05...-B	Rp 1½ I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-		

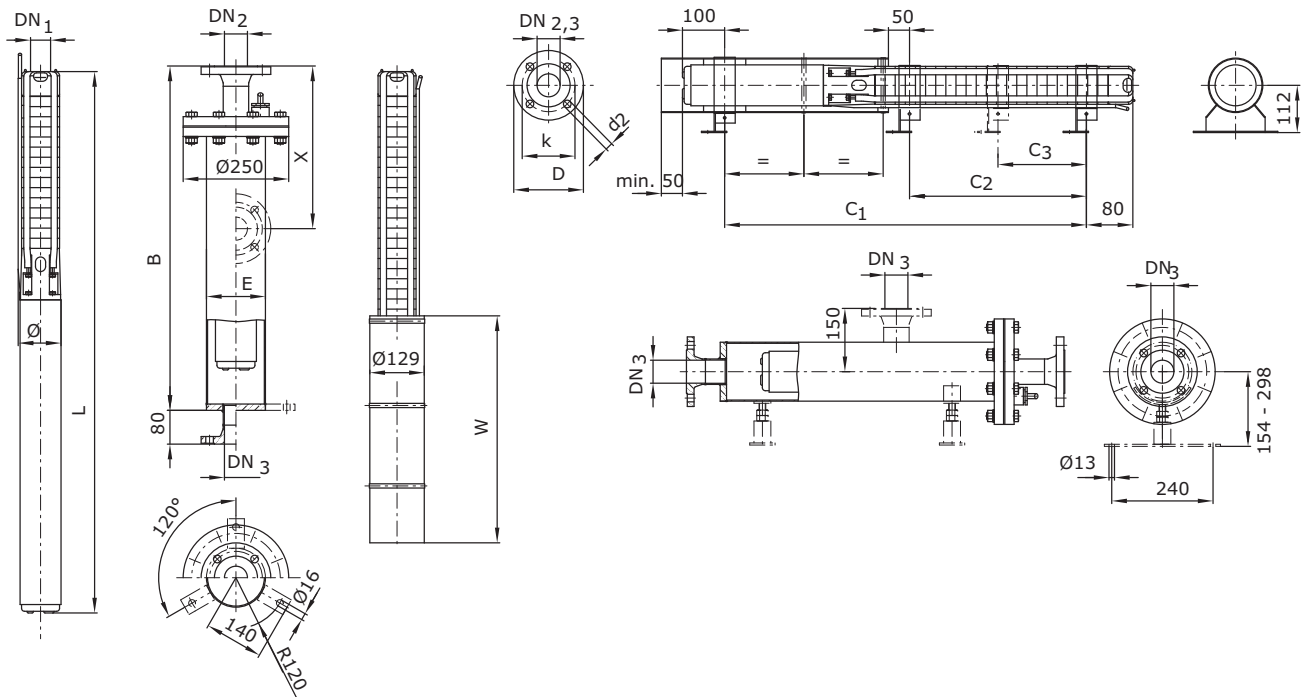
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 4.05...-B (1~230 V)

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 4.05-04-B	EM	920	-	139.7	509	98	12.0	33
TWI 4.05-06-B	EM	920	-	139.7	551	98	12.5	33
TWI 4.05-08-B	EM	920	-	139.7	621	98	14.2	33
TWI 4.05-12-B	EM	1220	-	139.7	762	98	18.4	36
TWI 4.05-17-B	EM	1220	-	139.7	971	98	22.9	36
TWI 4.05-21-B	EM	1520	-	139.7	1055	98	23.8	38
TWI 4.05-25-B	EM	1520	-	139.7	1139	98	24.5	38

Accessories Wilo-Sub TWI 4.05...-B (1~230 V)

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
	–	horizontal	vertical	W	C ₁	C ₂	C ₃	R
	–			[mm]				
TWI 4.05-04-B	EM	6 037 935	4 064 430	500	329	–	–	–
TWI 4.05-06-B	EM	6 037 935	4 064 430	500	371	–	–	–
TWI 4.05-08-B	EM	6 037 935	4 064 430	500	441	–	–	–
TWI 4.05-12-B	EM	6 037 937	4 064 431	750	610	–	–	–
TWI 4.05-17-B	EM	6 037 937	4 064 431	750	791	–	–	–
TWI 4.05-21-B	EM	6 037 936	4 064 431	750	875	355	–	–
TWI 4.05-25-B	EM	6 037 936	4 064 431	750	959	439	–	–

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.05...-B	Rp 1½ l	–	–	10-40	–	–	–	–	–
	–	DN 50	DN 50	–	10-40	10	4x18	125	165

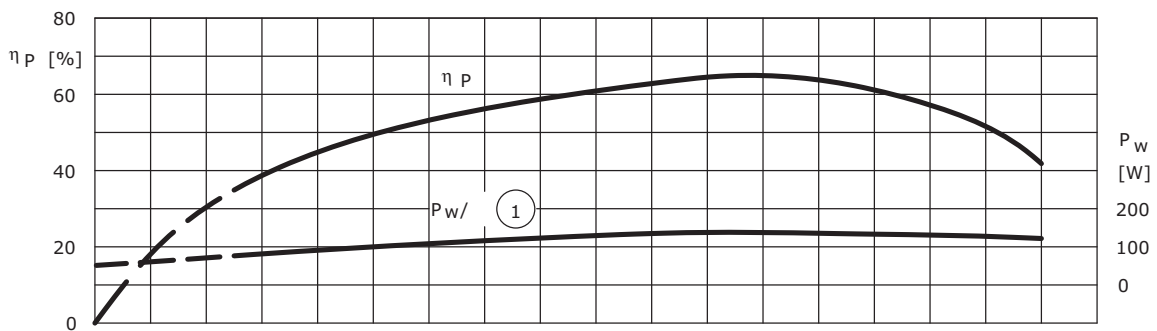
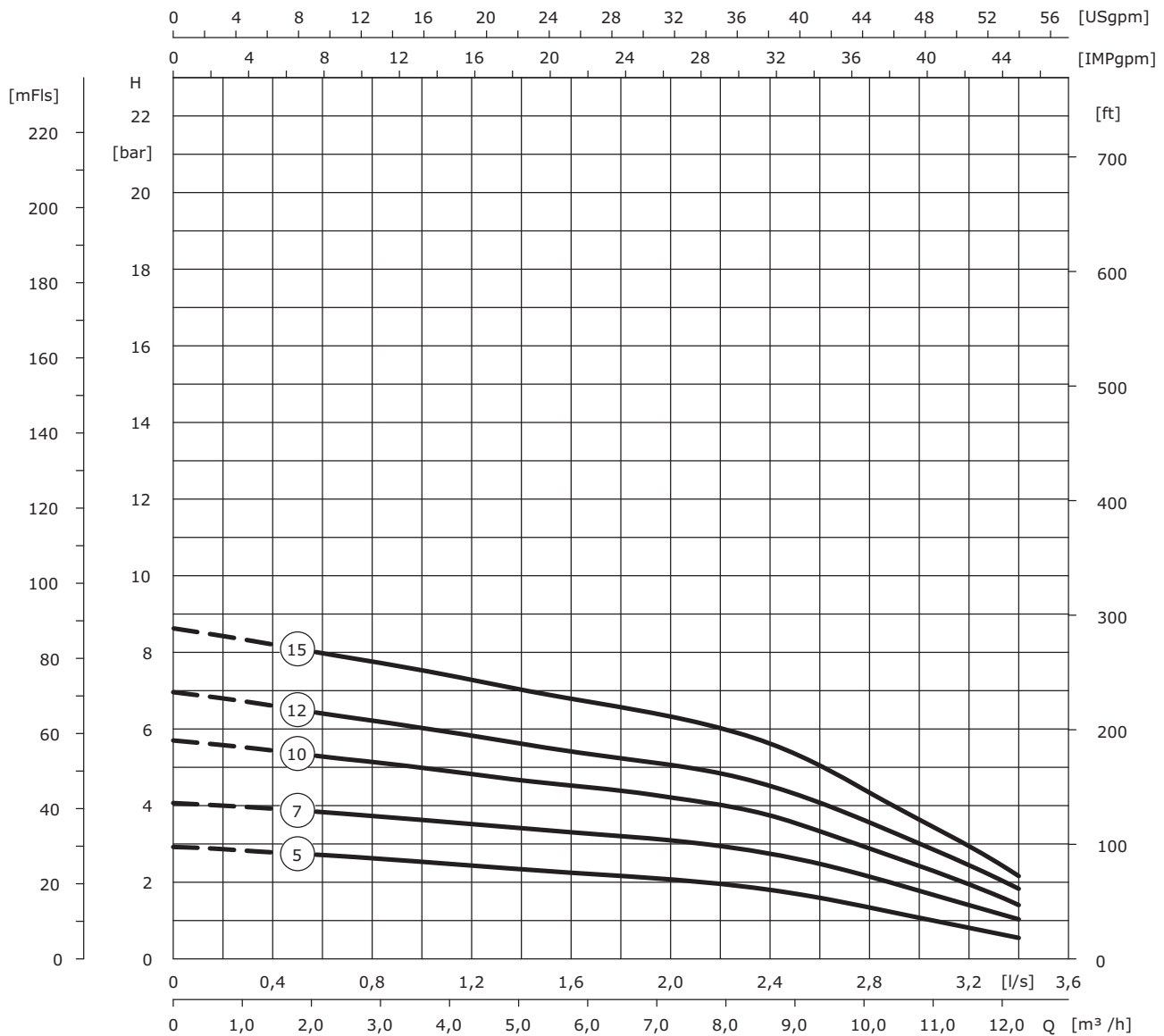
Pump with non-return valve, ¹⁾ On request, ²⁾ –, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 4.09...-B (1~230 V)

Wilo-Sub TWI 4.09...-B



230 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 4.09...-B (1~230 V)

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				-	P_2	I_N	P_w	I
				[kW]	[A]	[kW]	[A]	-
TWI 4.09-05-B	5	L	EM	1.10	8.60	0.80	7.80	V+H
TWI 4.09-07-B	7	L	EM	1.10	8.60	1.10	8.60	V+H
TWI 4.09-10-B	10	L	EM	1.50	10.60	1.40	10.40	V+H
TWI 4.09-12-B	12	L	EM	2.20	15.50	1.80	15	V+H
TWI 4.09-15-B	15	L	EM	2.20	15.50	2.10	15.40	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN_1	PN_1	L	max. ϕ	-				
	[mm]	[bar]	[mm]		[kg]	-			
TWI 4.09...-B	Rp 2 l	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-

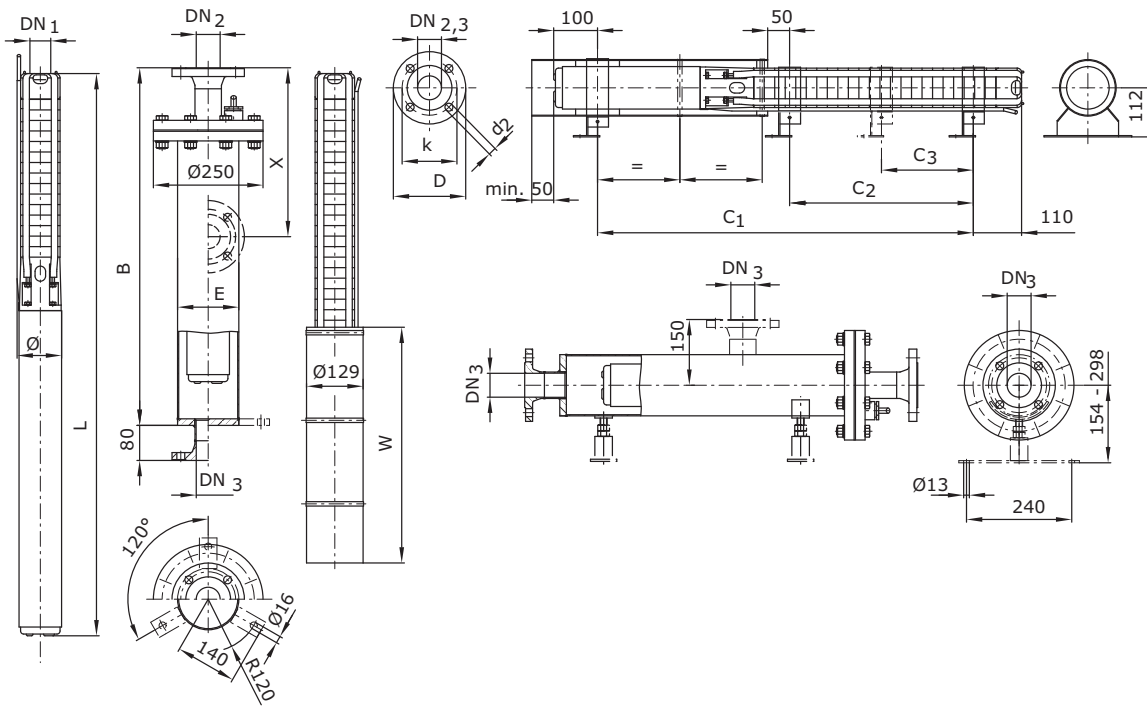
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 4.09...-B (1~230 V)

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 4.09-05-B	EM	1220	-	139.7	735	98	16.7	36
TWI 4.09-07-B	EM	1220	-	139.7	819	98	17.7	36
TWI 4.09-10-B	EM	1520	-	139.7	973	98	21.6	38
TWI 4.09-12-B	EM	1520	-	139.7	1161	98	26.1	38
TWI 4.09-15-B	EM	1820	-	139.7	1287	98	27.5	41

Accessories Wilo-Sub TWI 4.09...-B (1~230 V)

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
	–	horizontal	vertical	W	C ₁	C ₂	C ₃	R
	–			[mm]				
TWI 4.09-05-B	EM	6 037 937	4 064 431	750	553	–	–	–
TWI 4.09-07-B	EM	6 037 937	4 064 431	750	637	–	–	–
TWI 4.09-10-B	EM	6 037 936	4 064 431	750	791	292	–	–
TWI 4.09-12-B	EM	6 037 936	4 064 431	750	951	376	–	–
TWI 4.09-15-B	EM	6 037 936	4 064 431	750	1077	502	–	–

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.09...-B	Rp 2 l	–	–	10-40	–	–	–	–	–
	–	DN 50	DN 50	–	10-40	10	4x18	125	165

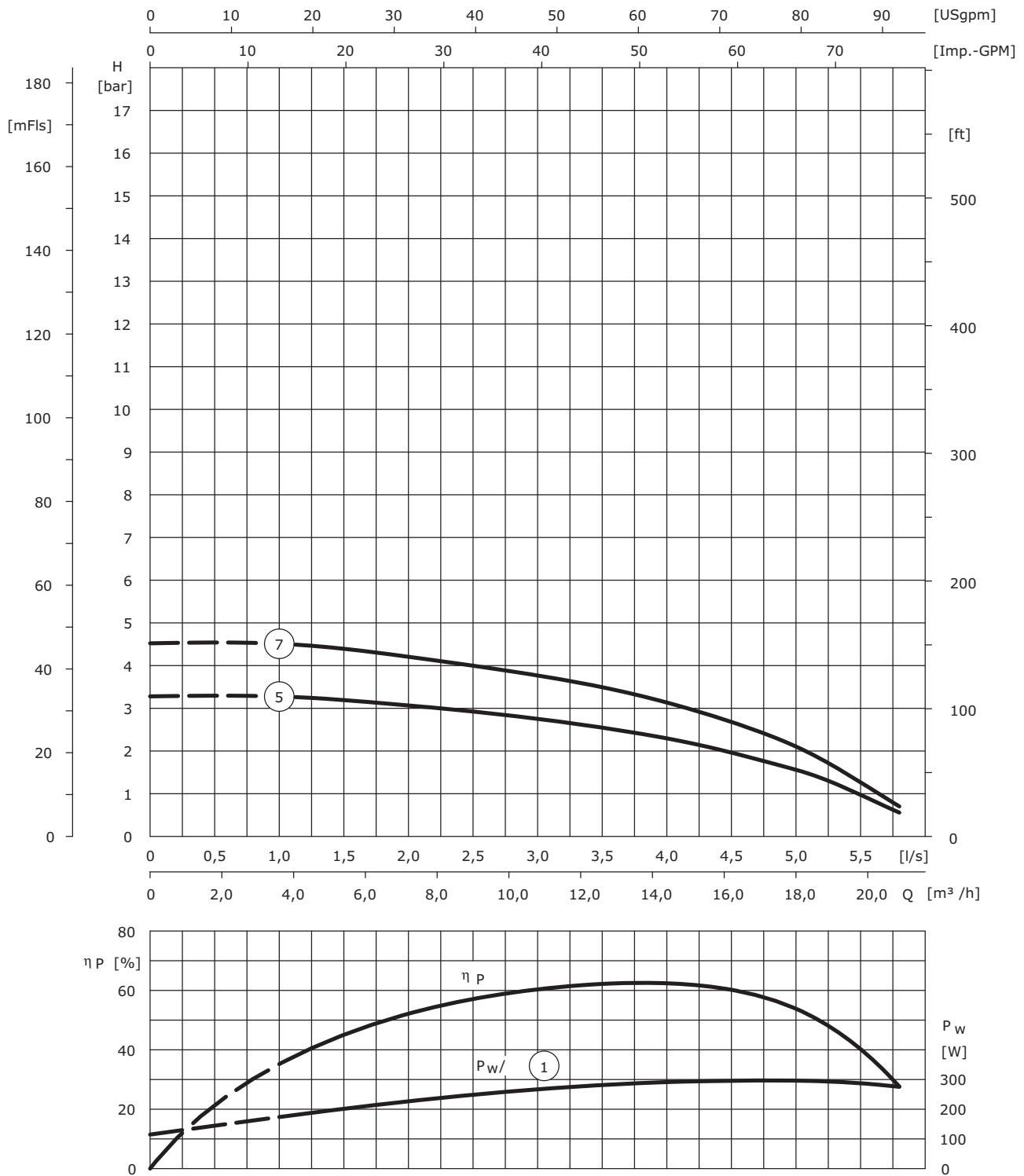
Pump with non-return valve, ¹⁾ On request, ²⁾ –, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 4.14...-B (1~230 V)

Wilo-Sub TWI 4.14...-B



230 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 4.14...-B (1~230 V)

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.						
									-	P_2	I_N	P_W	I	-
									-	[kW]	[A]	[kW]	[A]	-
TWI 4.14-05-B	5	L	EM	2.20	15.50	1.60	14.80	V+H						
TWI 4.14-07-B	7	L	EM	2.20	15.50	2.10	15.40	V+H						

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
			DN ₁	PN ₁						L	max. Ø
			[mm]	[bar]						[mm]	
TWI 4.14...-B	Rp 2 l	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-		

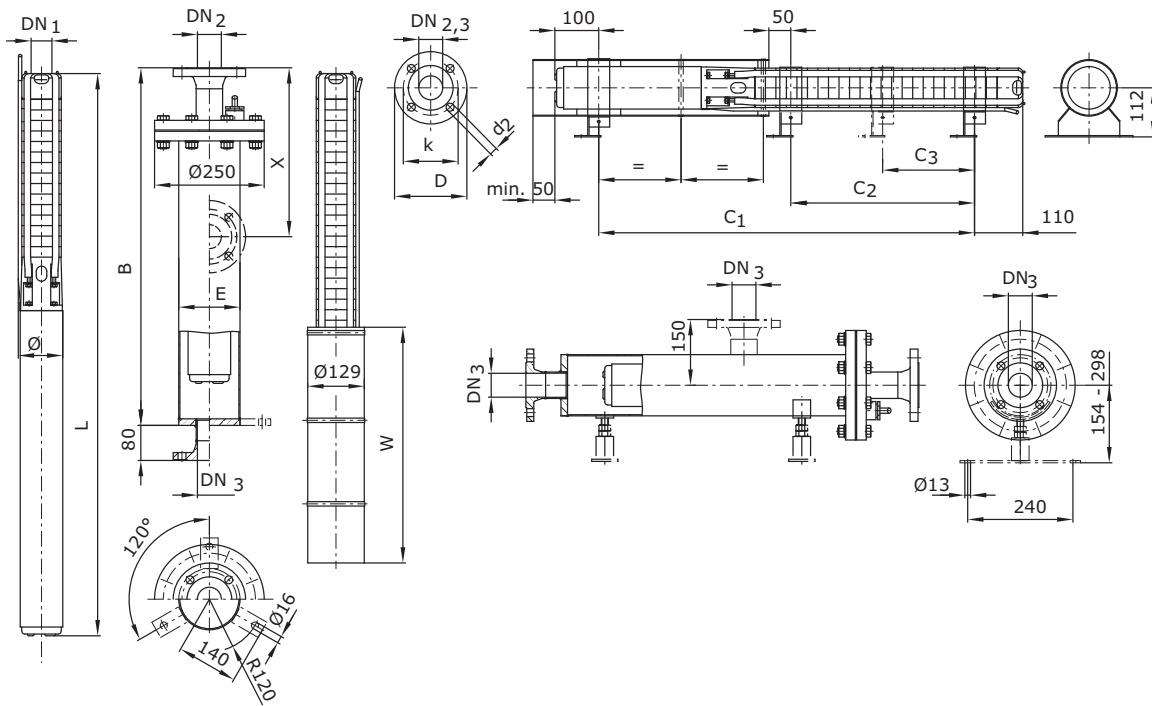
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. Ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 4.14...-B (1~230 V)

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 4.14-05-B	EM	1220	-	139.7	966	98	23.6	36
TWI 4.14-07-B	EM	1520	-	139.7	1096	98	24.9	38

Accessories Wilo-Sub TWI 4.14...-B (1~230 V)

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
	–	horizontal	vertical	W	C ₁	C ₂	C ₃	R
	–			[mm]				
TWI 4.14-05-B	EM	6 037 937	4 064 431	750	756	–	–	–
TWI 4.14-07-B	EM	6 037 937	4 064 431	750	886	–	–	–

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.14...-B	Rp 2 l	–	–	10-40	–	–	–	–	–
	–	DN 50	DN 50	–	10-40	10	4x18	125	165

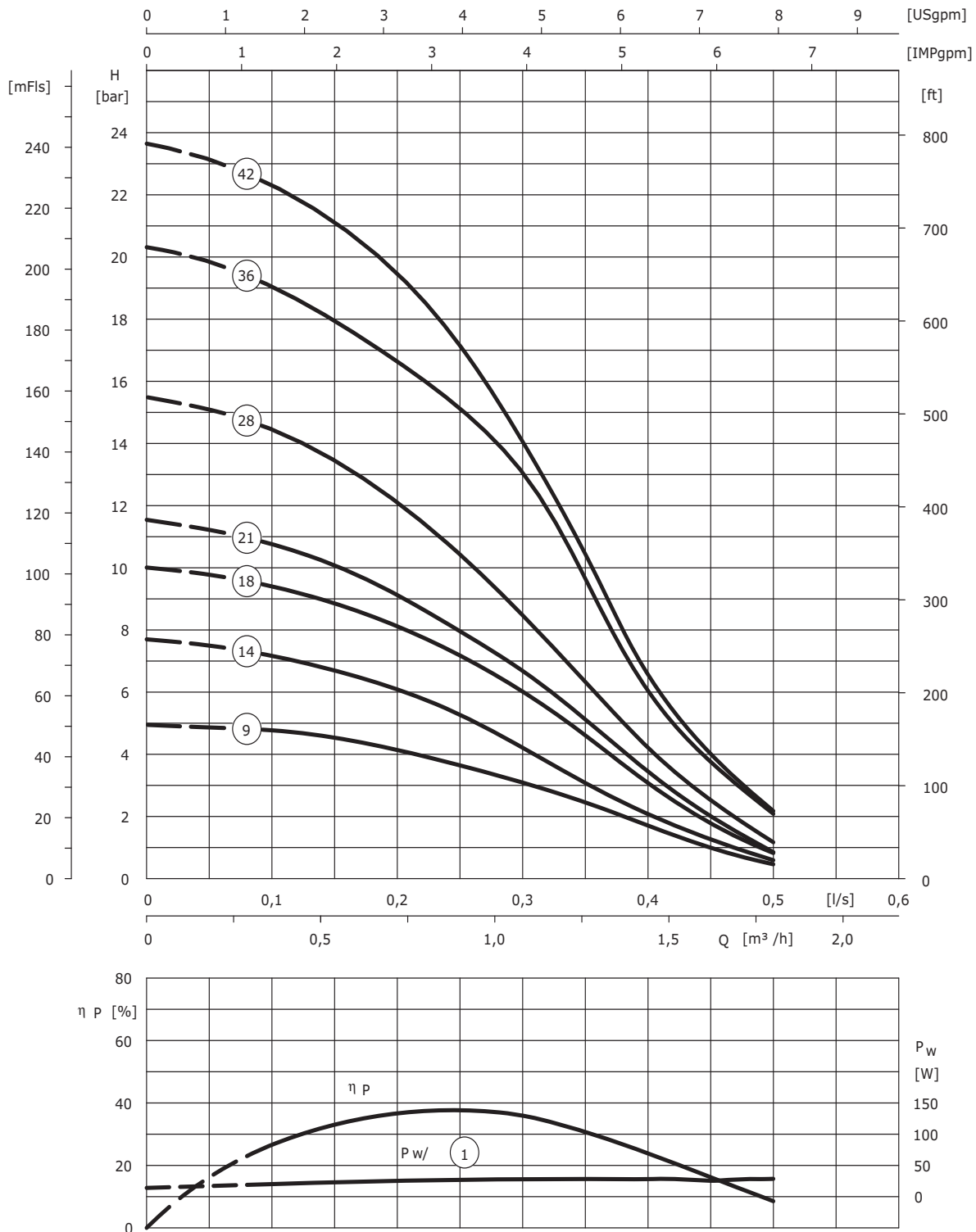
Pump with non-return valve, ¹⁾ On request, ²⁾ –, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 4.01...-B (400 V)

Wilo-Sub TWI 4.01...-B



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 4.01...-B (400 V)

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _w	I	-
				[kW]	[A]	[kW]	[A]	-
TWI 4.01-09-B	9	L	DM	0.37	1.10	0.27	0.94	V+H
TWI 4.01-14-B	14	L	DM	0.55	1.60	0.47	1.46	V+H
TWI 4.01-18-B	18	L	DM	0.55	1.60	0.52	1.55	V+H
TWI 4.01-21-B	21	L	DM	0.75	2.10	0.61	1.90	V+H
TWI 4.01-28-B	28	L	DM	1.10	3	0.85	2.60	V+H
TWI 4.01-36-B	36	C	DM	1.10	3	1.10	3	V+H
TWI 4.01-42-B	42	C	DM	1.50	4	1.40	3.90	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	PN ₁	L	max. Ø	-				
	[mm]	[bar]	[mm]		[kg]	-			
TWI 4.01...-B	Rp 1 1/4 I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-

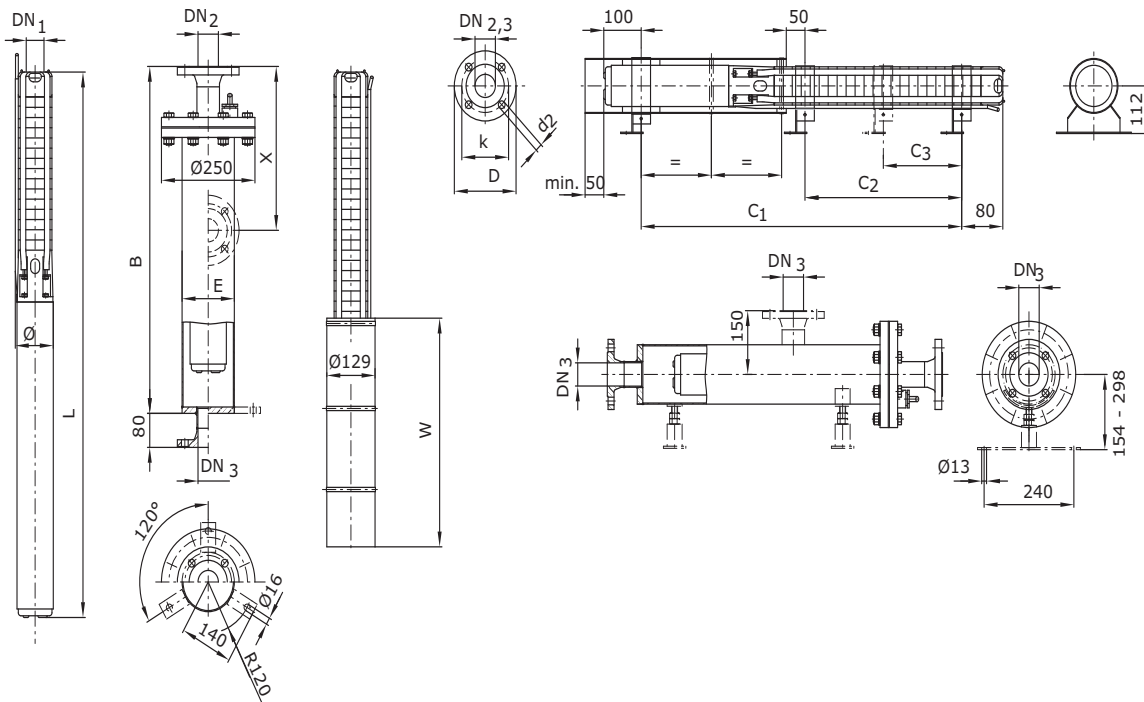
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. Ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 4.01...-B (400 V)

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 4.01-09-B	DM	920	-	139.7	573	98	11.1	33
TWI 4.01-14-B	DM	1220	-	139.7	697	98	13.0	36
TWI 4.01-18-B	DM	1220	-	139.7	781	98	13.8	36
TWI 4.01-21-B	DM	1220	-	139.7	872	98	15.6	36
TWI 4.01-28-B	DM	1520	-	139.7	1047	98	18.4	38
TWI 4.01-36-B	DM	1520	-	139.7	1250	98	20.5	38
TWI 4.01-42-B	DM	1820	-	139.7	1405	98	23.0	41

Accessories Wilo-Sub TWI 4.01...-B (400 V)

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
	–	horizontal	vertical	W	C ₁	C ₂	C ₃	R
	–			[mm]				
TWI 4.01-09-B	DM	6 037 935	4 064 430	500	393	–	–	–
TWI 4.01-14-B	DM	6 038 901	4 064 430	500	539	230	–	–
TWI 4.01-18-B	DM	6 038 901	4 064 430	500	633	324	–	–
TWI 4.01-21-B	DM	6 038 901	4 064 430	500	692	355	–	–
TWI 4.01-28-B	DM	6 038 901	4 064 430	500	867	502	–	–
TWI 4.01-36-B	DM	6 038 901	4 064 430	500	1070	705	–	–
TWI 4.01-42-B	DM	6 038 901	4 064 430	500	1225	831	–	–

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.01...-B	Rp 1¼ I	–	–	10-40	–	–	–	–	–
	–	DN 50	DN 50	–	10-40	10	4x18	125	165

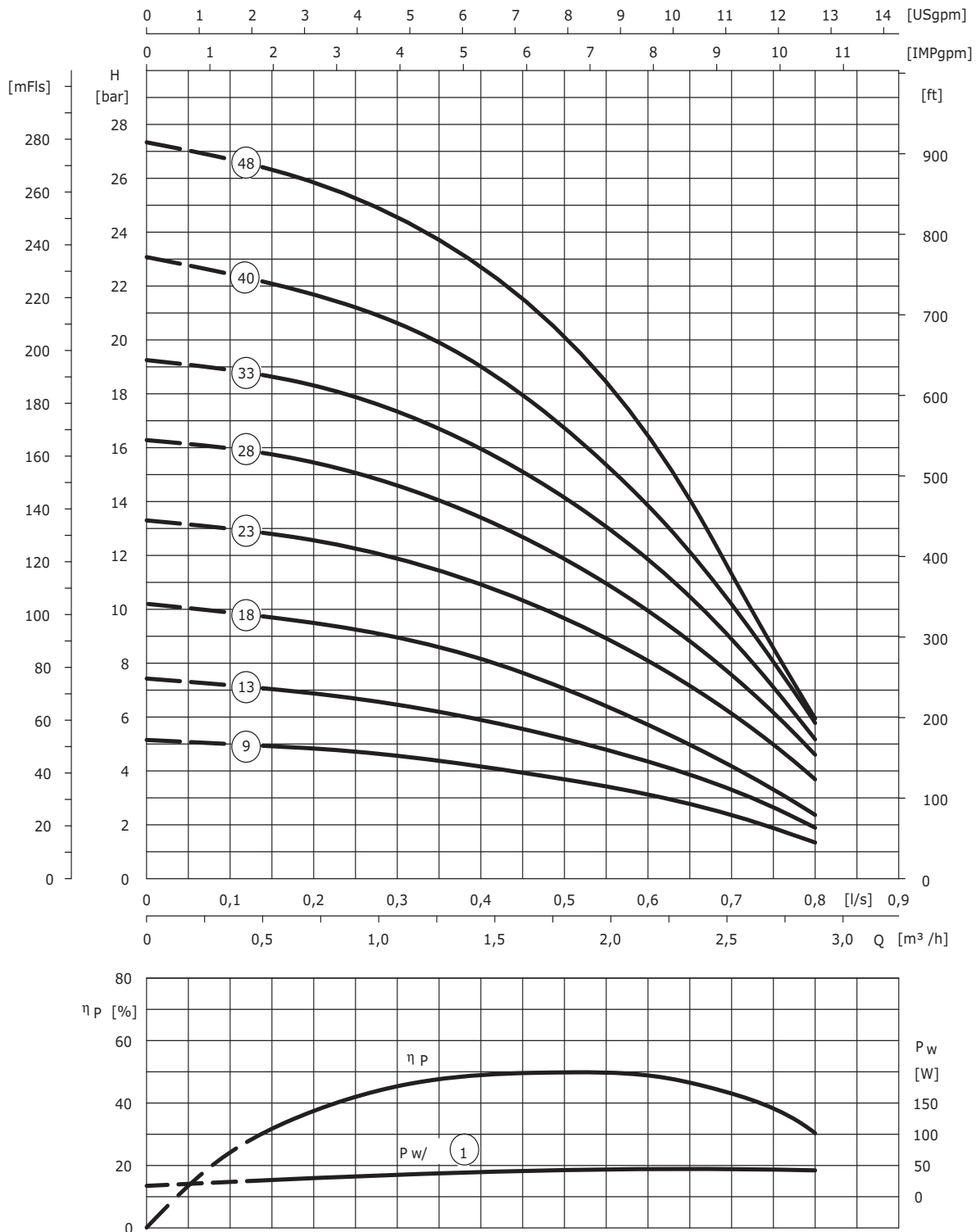
Pump with non-return valve, ¹⁾ On request, ²⁾ –, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 4.02...-B (400 V)

Wilo-Sub TWI 4.02...-B



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 4.02...-B (400 V)

Technical data

Wilo-Sub...	No.	Availability*	Motor type	Nominal power	Nominal current	Shaft power	Current for power requirement of the shaft	Inst.
				P ₂	I _N	P _w	I	
				[kW]	[A]	[kW]	[A]	
TWI 4.02-09-B	9	L	DM	0.55	1.60	0.49	1.49	V+H
TWI 4.02-13-B	13	L	DM	0.75	2.10	0.60	1.89	V+H
TWI 4.02-18-B	18	L	DM	1.10	3	0.85	2.60	V+H
TWI 4.02-23-B	23	C	DM	1.10	3	1.10	3	V+H
TWI 4.02-28-B	28	C	DM	1.50	4	1.40	3.90	V+H
TWI 4.02-33-B	33	C	DM	1.50	4	1.50	4	V+H
TWI 4.02-40-B	40	C	DM	2.20	5.90	1.80	5.30	V+H
TWI 4.02-48-B	48	C	DM	2.20	5.90	2.10	5.80	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
			DN ₁	PN ₁						L	max. Ø
			[mm]	[bar]						[mm]	[kg]
TWI 4.14...-B	Rp 1 1/4 I	10-40	5)	5)	5)	5)	1	-	-		

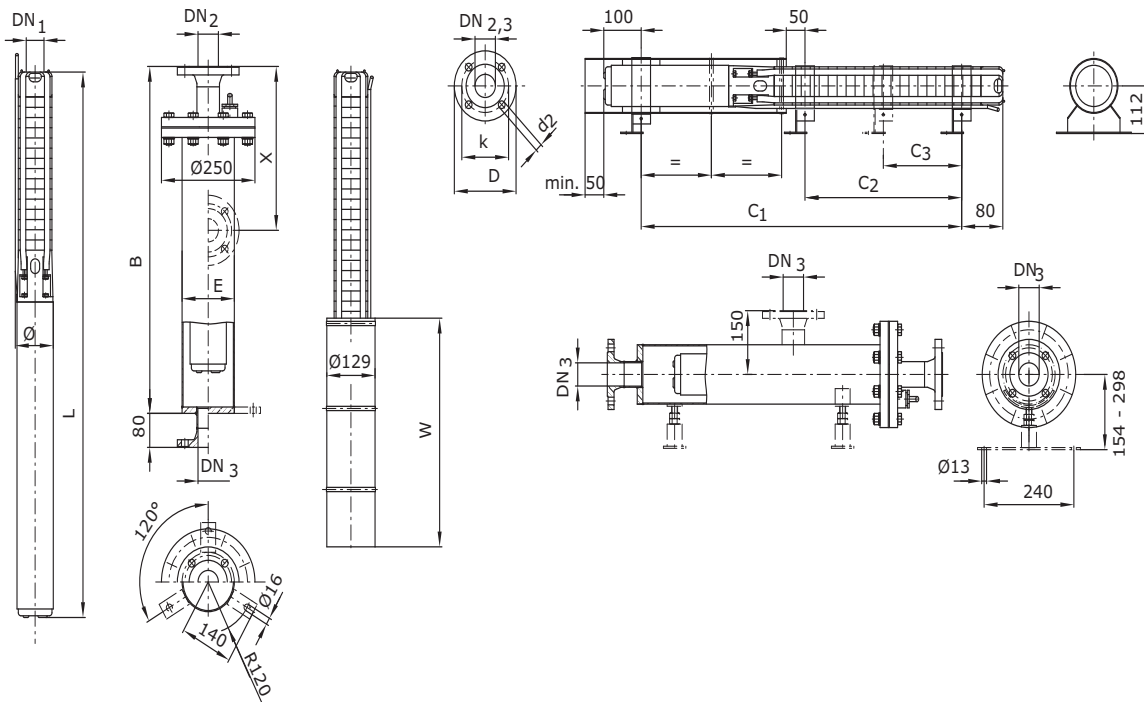
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. Ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 4.02...-B (400 V)

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 4.02-09-B	DM	920	-	139.7	592	98	11.9	33
TWI 4.02-13-B	DM	1220	-	139.7	704	98	14.0	36
TWI 4.02-18-B	DM	1220	-	139.7	837	98	16.3	36
TWI 4.02-23-B	DM	1220	-	139.7	942	98	17.4	36
TWI 4.02-28-B	DM	1520	-	139.7	1076	98	19.4	38
TWI 4.02-33-B	DM	1520	-	139.7	1181	98	20.2	38
TWI 4.02-40-B	DM	1820	-	139.7	1391	98	23.8	41
TWI 4.02-48-B	DM	1820	-	139.7	1559	98	25.1	41

Accessories Wilo-Sub TWI 4.02...-B (400 V)

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
		horizontal	vertical	W	C ₁	C ₂	C ₃	R
	-		-		[mm]			
TWI 4.02-09-B	DM	6 037 935	4 064 430	500	434	-	-	-
TWI 4.02-13-B	DM	6 038 901	4 064 430	500	524	187	-	-
TWI 4.02-18-B	DM	6 038 901	4 064 430	500	657	292	-	-
TWI 4.02-23-B	DM	6 038 901	4 064 430	500	762	397	-	-
TWI 4.02-28-B	DM	6 038 901	4 064 430	500	896	502	-	-
TWI 4.02-33-B	DM	6 038 901	4 064 430	500	1001	607	-	-
TWI 4.02-40-B	DM	6 037 936	4 064 431	750	1211	789	-	-
TWI 4.02-48-B	DM	6 037 936	4 064 431	750	1379	957	-	-

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.14...-B	Rp 1 1/4 I	-	-	10-40	-	-	-	-	-
	-	DN 50	DN 50	-	10-40	10	4x18	125	165

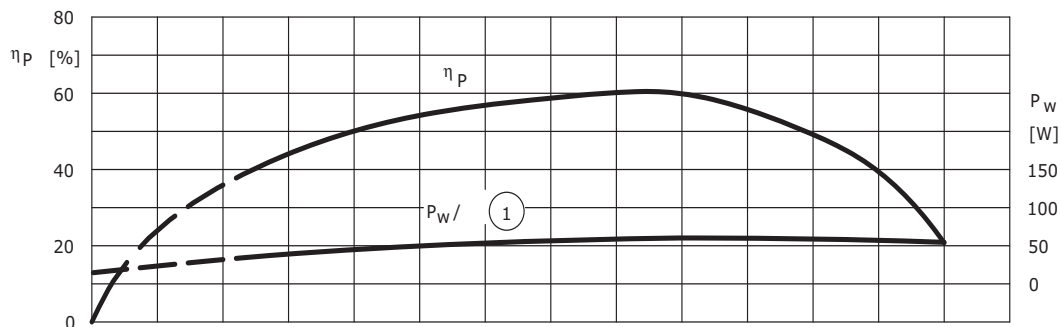
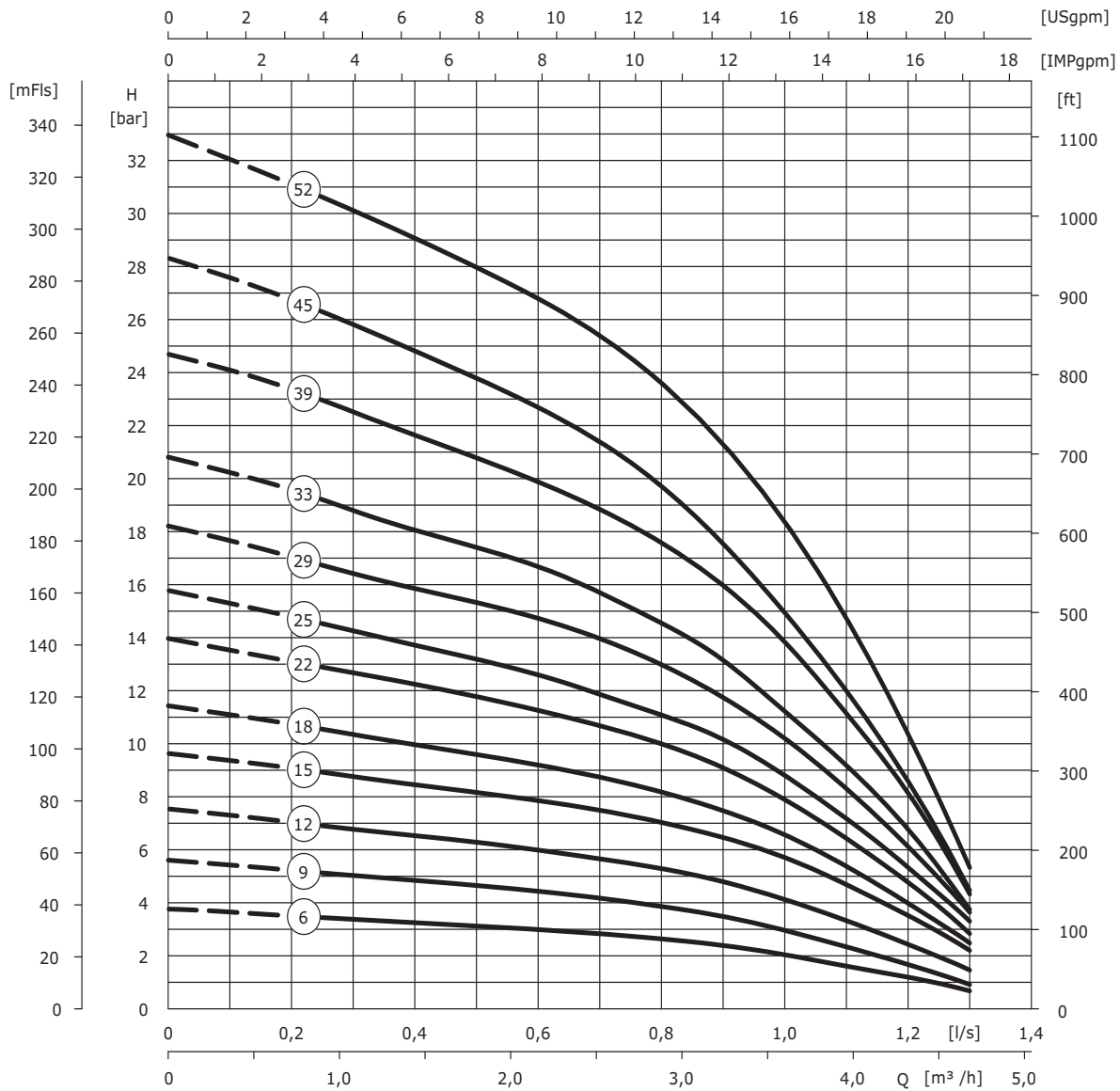
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 4.03...-B (400 V)

Wilo-Sub TWI 4.03...-B



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 4.03...-B (400 V)

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _W	I	-
				[kW]	[A]	[kW]	[A]	-
TWI 4.03-06-B	6	L	DM	0.55	1.60	0.43	1.40	V+H
TWI 4.03-09-B	9	L	DM	0.75	2.10	0.58	1.87	V+H
TWI 4.03-12-B	12	L	DM	1.10	3	0.81	2.60	V+H
TWI 4.03-15-B	15	L	DM	1.10	3	1	2.90	V+H
TWI 4.03-18-B	18	L	DM	1.50	4	1.20	3.60	V+H
TWI 4.03-22-B	22	L	DM	1.50	4	1.50	4	V+H
TWI 4.03-25-B	25	C	DM	2.20	5.90	1.70	5.20	V+H
TWI 4.03-29-B	29	C	DM	2.20	5.90	1.90	5.40	V+H
TWI 4.03-33-B	33	C	DM	2.20	5.90	2.10	5.80	V+H
TWI 4.03-39-B	39	C	DM	3.00	7.80	2.50	7	V+H
TWI 4.03-45-B	45	C	DM	3.00	7.80	2.80	7.50	V+H
TWI 4.03-52-B	52	C	DM	3.70	9.10	3.40	8.60	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	PN ₁	L	max. Ø	-				
	[mm]	[bar]	[mm]		[kg]	-			
TWI 4.03...-B	Rp 1½ I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-

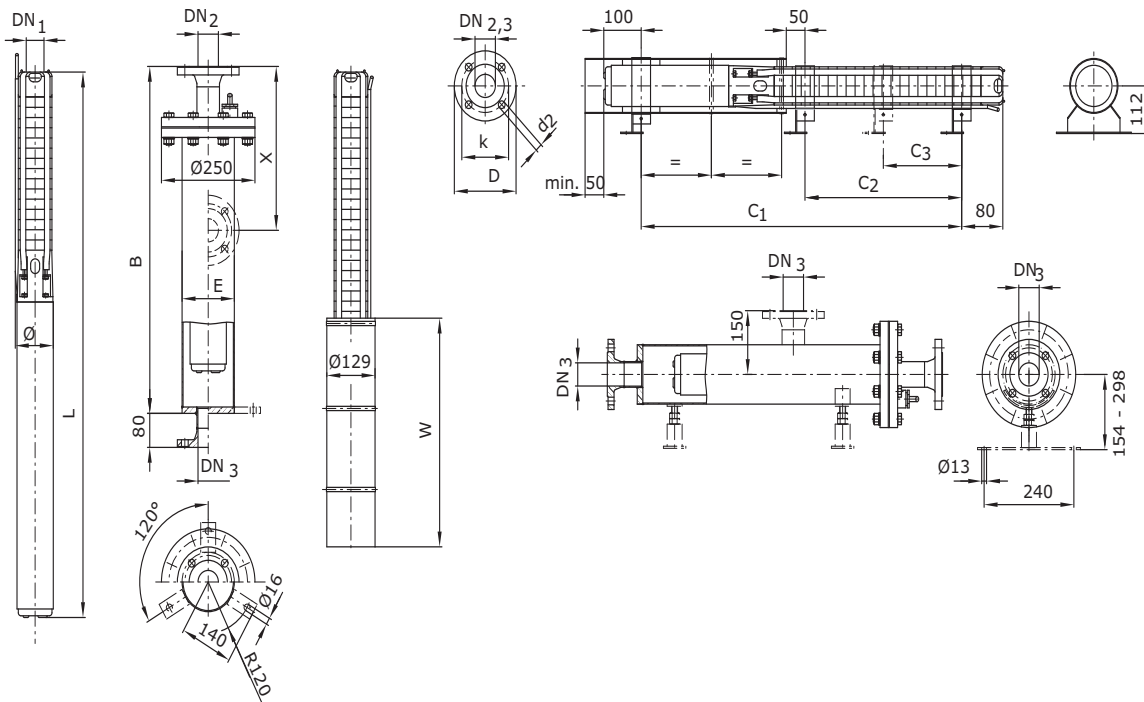
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. Ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 4.03...-B (400 V)

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 4.03-06-B	DM	920	-	139.7	529	98	11.3	33
TWI 4.03-09-B	DM	920	-	139.7	620	98	13.1	33
TWI 4.03-12-B	DM	1220	-	139.7	711	98	15.1	36
TWI 4.03-15-B	DM	1220	-	139.7	774	98	15.8	36
TWI 4.03-18-B	DM	1220	-	139.7	866	98	17.5	36
TWI 4.03-22-B	DM	1220	-	139.7	950	98	18.3	36
TWI 4.03-25-B	DM	1520	-	139.7	1041	98	20.2	38
TWI 4.03-29-B	DM	1520	-	139.7	1125	98	21.1	38
TWI 4.03-33-B	DM	1520	-	139.7	1209	98	21.8	38
TWI 4.03-39-B	DM	1820	-	139.7	1507	98	29.4	41
TWI 4.03-45-B	DM	2120	-	139.7	1648	98	30.4	44
TWI 4.03-52-B	DM	2120	-	139.7	1835	98	34.9	44

Accessories Wilo-Sub TWI 4.03...-B (400 V)

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
	–	horizontal	vertical	W	C ₁	C ₂	C ₃	R
	–			[mm]				
TWI 4.03-06-B	DM	6 037 935	4 064 430	500	371	–	–	–
TWI 4.03-09-B	DM	6 037 935	4 064 430	500	440	–	–	–
TWI 4.03-12-B	DM	6 037 935	4 064 430	500	531	–	–	–
TWI 4.03-15-B	DM	6 038 901	4 064 430	500	594	229	–	–
TWI 4.03-18-B	DM	6 038 901	4 064 430	500	686	292	–	–
TWI 4.03-22-B	DM	6 038 901	4 064 430	500	770	376	–	–
TWI 4.03-25-B	DM	6 037 936	4 064 431	750	861	439	–	–
TWI 4.03-29-B	DM	6 037 936	4 064 431	750	945	523	–	–
TWI 4.03-33-B	DM	6 037 936	4 064 431	750	1029	607	–	–
TWI 4.03-39-B	DM	6 037 936	4 064 431	750	1327	753	–	–
TWI 4.03-45-B	DM	6 037 936	4 064 431	750	1468	894	–	–
TWI 4.03-52-B	DM	6 037 936	4 064 431	750	1655	1041	–	–

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.03...-B	Rp 1½ l	–	–	10-40	–	–	–	–	–
	–	DN 50	DN 50	–	10-40	10	4x18	125	165

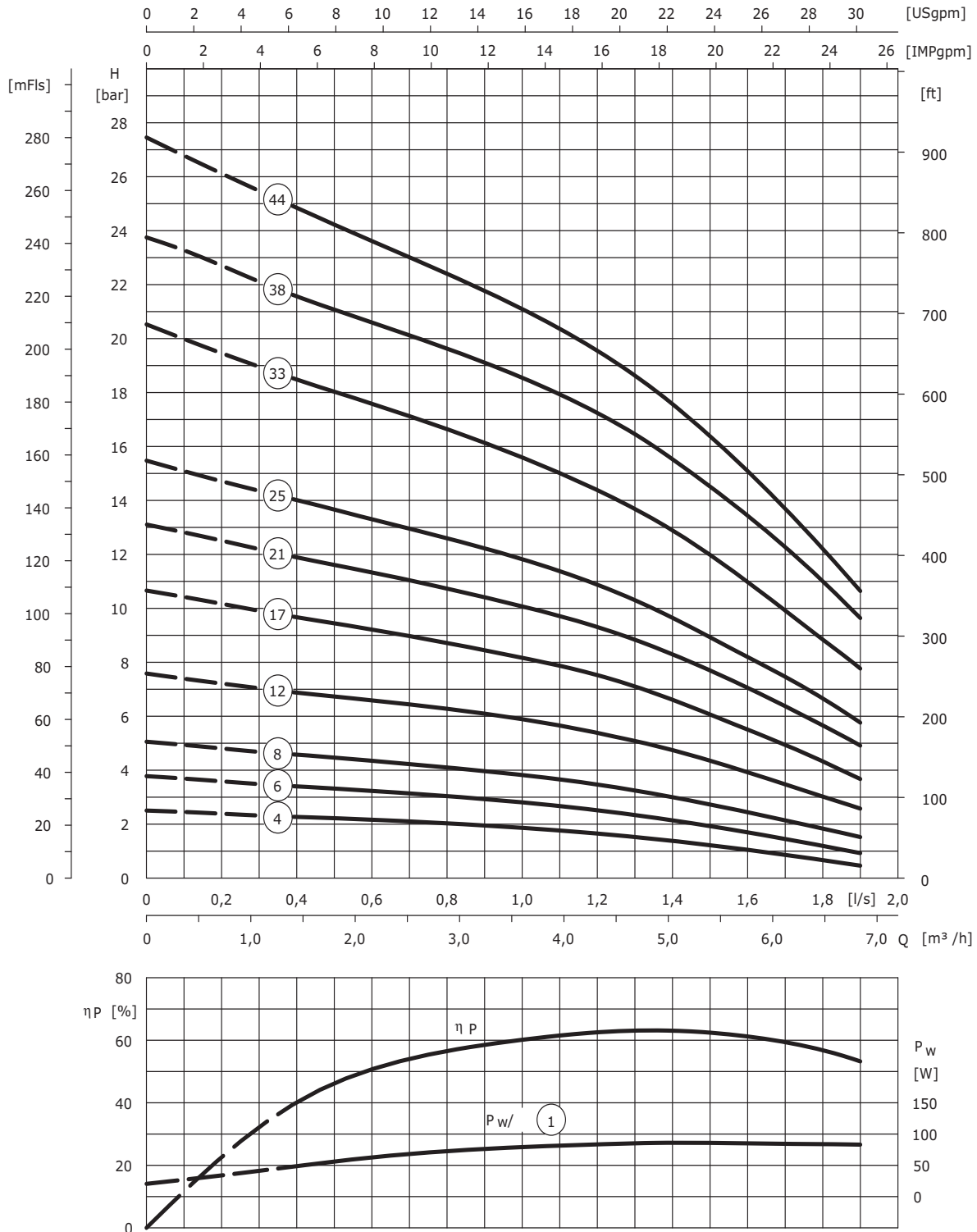
Pump with non-return valve, ¹⁾ On request, ²⁾ –, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 4.05...-B (400 V)

Wilo-Sub TWI 4.05...-B



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 4.05...-B (400 V)

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	
				[kW]	[A]	[kW]	[A]	
TWI 4.05-04-B	4	L	DM	0.55	1.60	0.38	1.34	V+H
TWI 4.05-06-B	6	L	DM	0.55	1.60	0.55	1.60	V+H
TWI 4.05-08-B	8	L	DM	0.75	2.10	0.75	2.10	V+H
TWI 4.05-12-B	12	L	DM	1.50	4	1.20	3.60	V+H
TWI 4.05-17-B	17	L	DM	2.20	5.90	1.60	5	V+H
TWI 4.05-21-B	21	L	DM	2.20	5.90	1.90	5.40	V+H
TWI 4.05-25-B	25	L	DM	2.20	5.90	2.20	5.90	V+H
TWI 4.05-33-B	33	C	DM	3.00	7.80	2.80	7.50	V+H
TWI 4.05-38-B	38	C	DM	3.70	9.10	3.60	9	V+H
TWI 4.05-44-B	44	C	DM	4.00	10	4	10	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	PN ₁	L	max. ϕ					
	[mm]	[bar]	[mm]		[kg]				
TWI 4.05...-B	Rp 1½ l	10-40	5)	5)	5)	5)	1	-	-

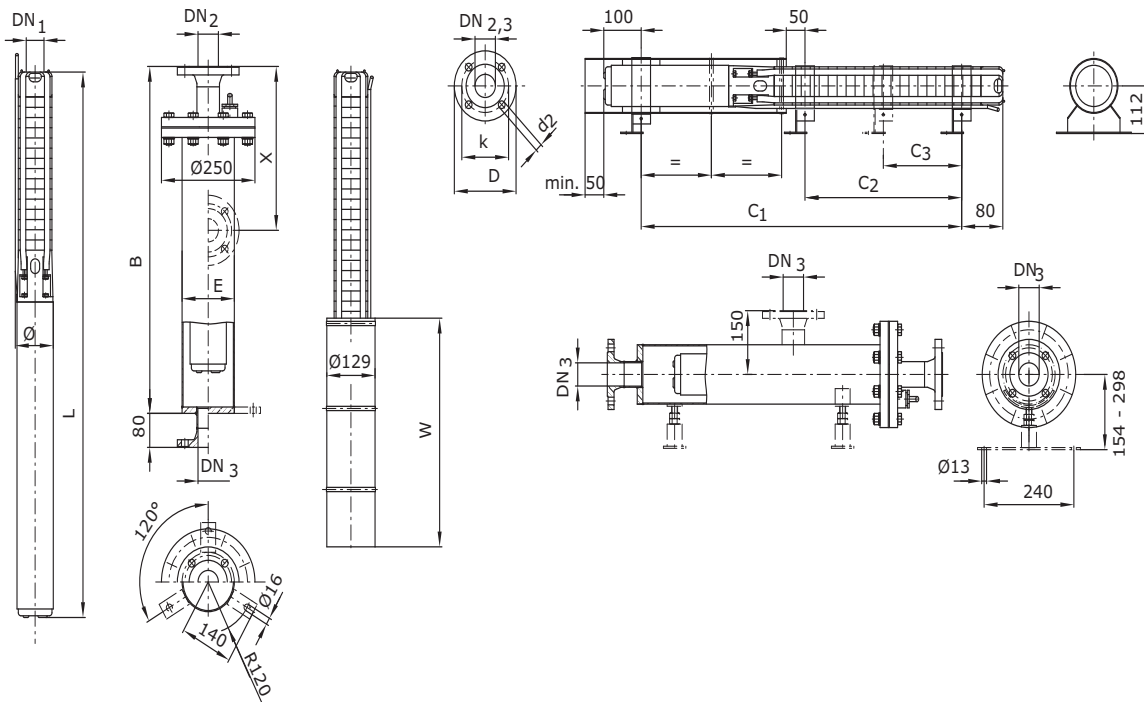
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 4.05...-B (400 V)

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
TWI 4.05-04-B	DM	920	-	139.7	509	98	11.0	33
TWI 4.05-06-B	DM	920	-	139.7	529	98	11.6	33
TWI 4.05-08-B	DM	920	-	139.7	599	98	13.0	33
TWI 4.05-12-B	DM	1220	-	139.7	740	98	16.2	36
TWI 4.05-17-B	DM	1220	-	139.7	873	98	18.6	36
TWI 4.05-21-B	DM	1220	-	139.7	957	98	19.5	36
TWI 4.05-25-B	DM	1520	-	139.7	1041	98	20.2	38
TWI 4.05-33-B	DM	1820	-	139.7	1361	98	27.5	41
TWI 4.05-38-B	DM	1820	-	139.7	1506	98	32.1	41
TWI 4.05-44-B	DM	2120	-	139.7	1668	98	34.8	44

Accessories Wilo-Sub TWI 4.05...-B (400 V)

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
	–	horizontal	vertical	W	C ₁	C ₂	C ₃	R
	–			[mm]				
TWI 4.05-04-B	DM	6 037 935	4 064 430	500	329	–	–	–
TWI 4.05-06-B	DM	6 037 935	4 064 430	500	371	–	–	–
TWI 4.05-08-B	DM	6 037 935	4 064 430	500	419	–	–	–
TWI 4.05-12-B	DM	6 037 935	4 064 430	500	560	–	–	–
TWI 4.05-17-B	DM	6 037 936	4 064 431	750	693	271	–	–
TWI 4.05-21-B	DM	6 037 936	4 064 431	750	777	355	–	–
TWI 4.05-25-B	DM	6 037 936	4 064 431	750	861	439	–	–
TWI 4.05-33-B	DM	6 037 936	4 064 431	750	1181	607	–	–
TWI 4.05-38-B	DM	6 037 936	4 064 431	750	1367	753	–	–
TWI 4.05-44-B	DM	6 037 936	4 064 431	750	1508	858	–	–

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.05...-B	Rp 1½ l	–	–	10-40	–	–	–	–	–
	–	DN 50	DN 50	–	10-40	10	4x18	125	165

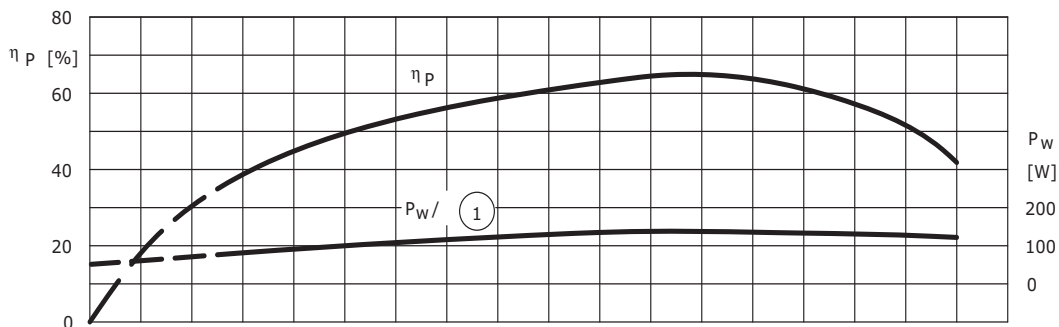
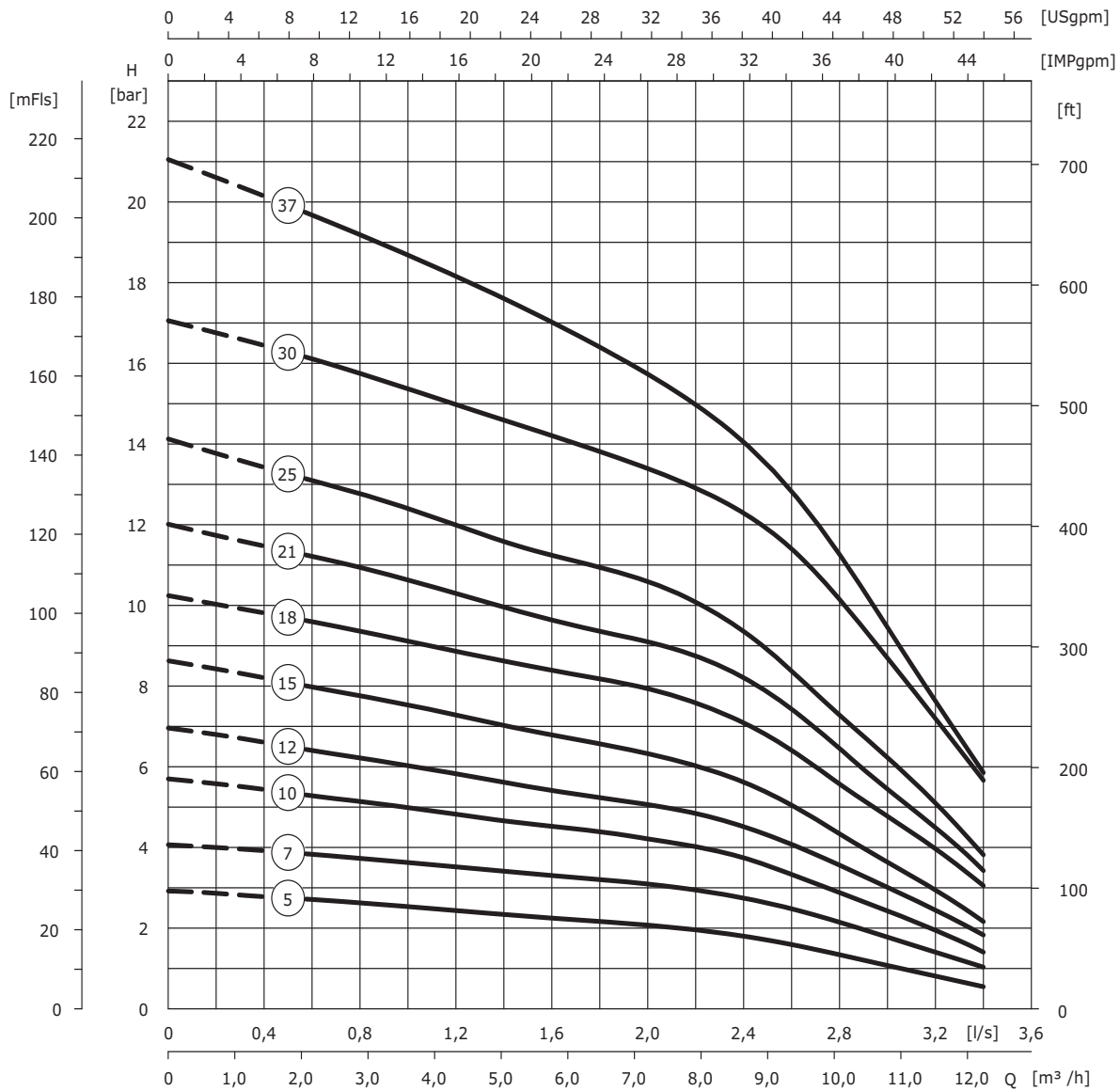
Pump with non-return valve, ¹⁾ On request, ²⁾ –, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 4.09...-B (400 V)

Wilo-Sub TWI 4.09...-B



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 4.09...-B (400 V)

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I	-
				[kW]	[A]	[kW]	[A]	-
TWI 4.09-05-B	5	L	DM	1.10	3	0.78	2.60	V+H
TWI 4.09-07-B	7	L	DM	1.10	3	1.10	3	V+H
TWI 4.09-10-B	10	L	DM	1.50	4	1.40	3.90	V+H
TWI 4.09-12-B	12	L	DM	2.20	5.90	1.80	5.30	V+H
TWI 4.09-15-B	15	L	DM	2.20	5.90	2.10	5.80	V+H
TWI 4.09-18-B	18	L	DM	3.00	7.80	2.90	7.70	V+H
TWI 4.09-21-B	21	L	DM	3.70	9.10	3.20	8.30	V+H
TWI 4.09-25-B	25	L	DM	3.70	9.10	3.60	9	V+H
TWI 4.09-30-B	30	C	DM	5.50	13.70	4.70	12.40	V+H
TWI 4.09-37-B	37	C	DM	5.50	13.70	5.40	13.60	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
			DN ₁	PN ₁						L	max. ϕ
			[mm]	[bar]						[mm]	[kg]
TWI 4.09...-B	Rp 2 I	10-40	5)	5)	5)	5)	1	-	-		

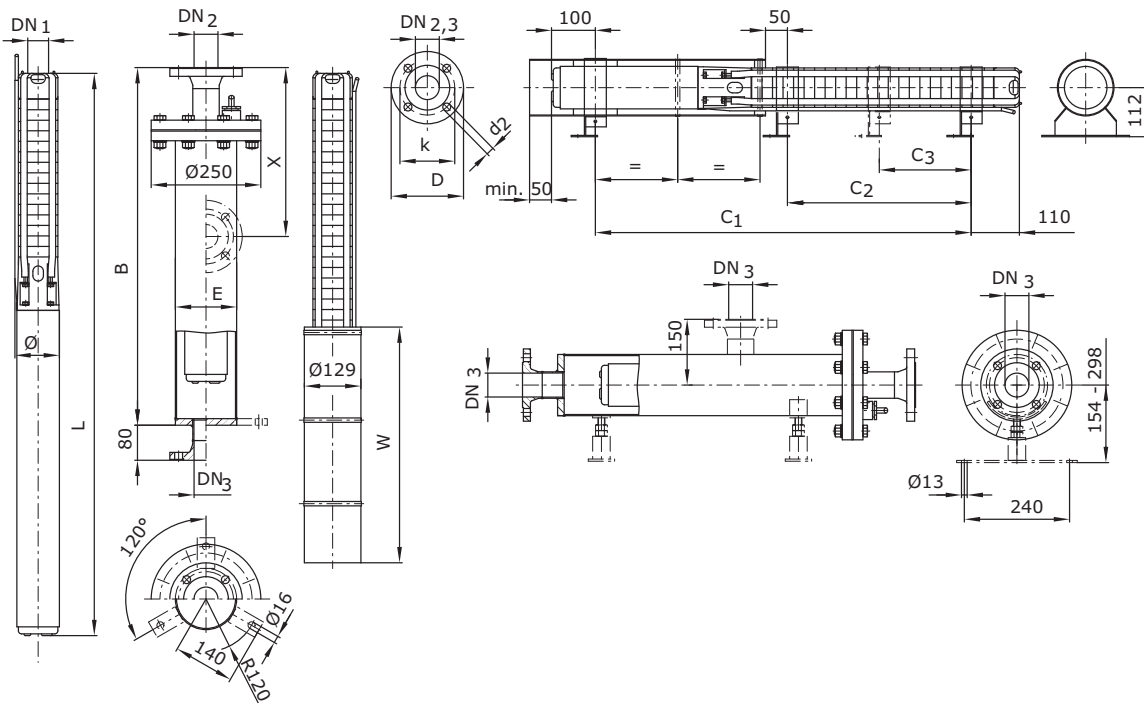
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 4.09...-B (400 V)

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 4.09-05-B	DM	1220	-	139.7	712	98	15.7	36
TWI 4.09-07-B	DM	1220	-	139.7	796	98	16.7	36
TWI 4.09-10-B	DM	1220	-	139.7	951	98	19.7	36
TWI 4.09-12-B	DM	1520	-	139.7	1063	98	21.8	38
TWI 4.09-15-B	DM	1520	-	139.7	1189	98	23.2	38
TWI 4.09-18-B	DM	1820	-	139.7	1467	98	30.4	41
TWI 4.09-21-B	DM	2120	-	139.7	1633	98	35.1	44
TWI 4.09-25-B	DM	2120	-	139.7	1801	98	38.2	44
TWI 4.09-30-B	DM	2420	-	139.7	2161	98	47.1	46
TWI 4.09-37-B	DM	2720	-	139.7	2455	98	51.4	49

Accessories Wilo-Sub TWI 4.09...-B (400 V)

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
	–	horizontal	vertical	W	C ₁	C ₂	C ₃	R
	–			[mm]				
TWI 4.09-05-B	DM	6 037 937	4 064 431	750	502	–	–	–
TWI 4.09-07-B	DM	6 037 937	4 064 431	750	586	–	–	–
TWI 4.09-10-B	DM	6 037 936	4 064 431	750	741	292	–	–
TWI 4.09-12-B	DM	6 037 936	4 064 431	750	853	376	–	–
TWI 4.09-15-B	DM	6 037 936	4 064 431	750	979	502	–	–
TWI 4.09-18-B	DM	6 037 936	4 064 431	750	1257	628	–	–
TWI 4.09-21-B	DM	6 038 903	4 064 432	1000	1423	754	–	–
TWI 4.09-25-B	DM	6 038 903	4 064 432	1000	1591	922	–	–
TWI 4.09-30-B	DM	6 038 904	4 064 432	1000	1951	1132	566	–
TWI 4.09-37-B	DM	6 038 904	4 064 432	1000	2245	1426	713	–

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.09...-B	Rp 2 l	–	–	10-40	–	–	–	–	–
	–	DN 50	DN 50	–	10-40	10	4x18	125	165

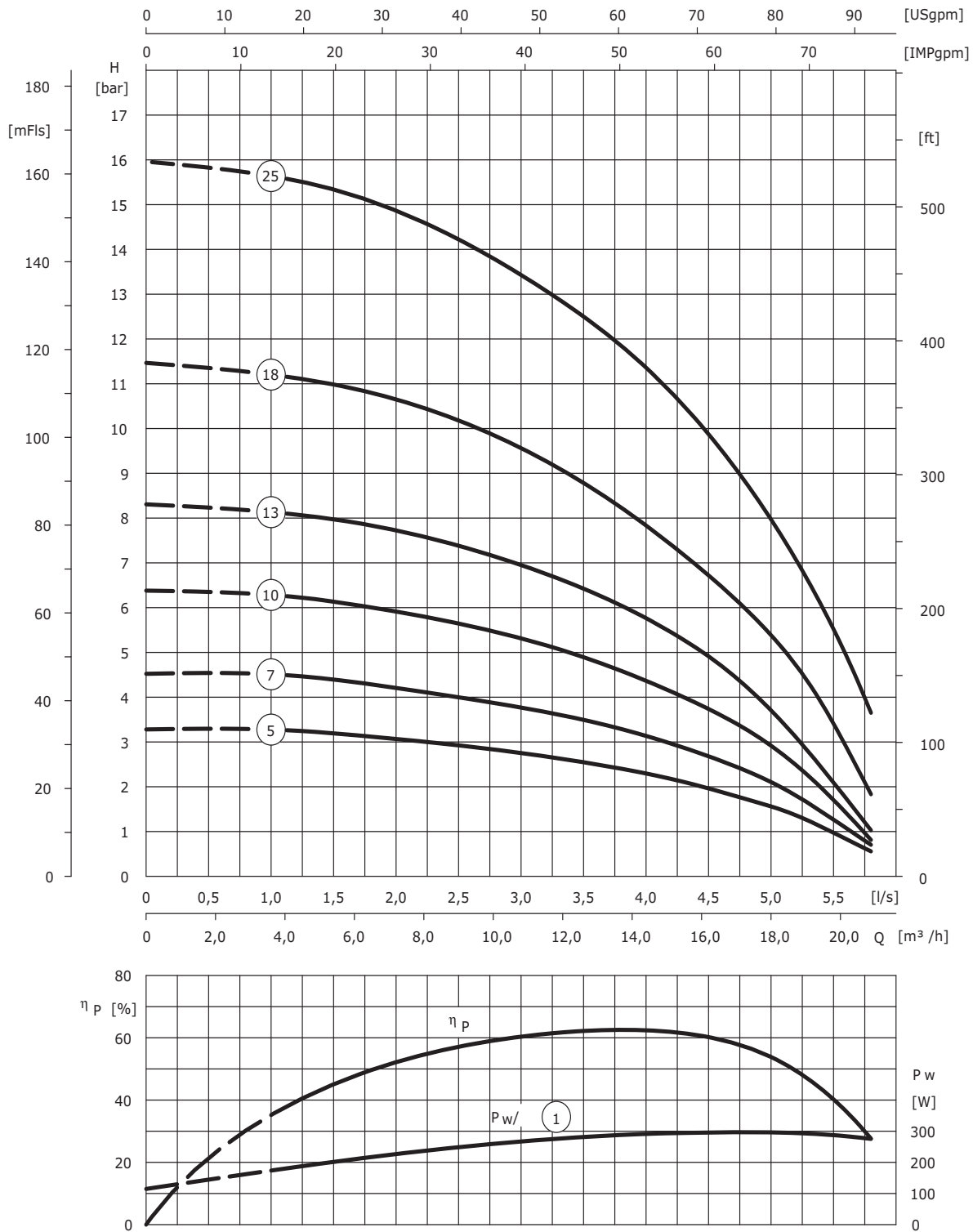
Pump with non-return valve, ¹⁾ On request, ²⁾ –, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 4.14...-B (400 V)

Wilo-Sub TWI 4.14...-B



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 4.14...-B (400 V)

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.						
									-	P_2	I_N	P_W	I	-
									-	[kW]	[A]	[kW]	[A]	-
TWI 4.14-05-B	5	L	DM	2.20	5.90	1.60	5	V+H						
TWI 4.14-07-B	7	L	DM	2.20	5.90	2.10	5.80	V+H						
TWI 4.14-10-B	10	L	DM	3.00	7.80	3	7.80	V+H						
TWI 4.14-13-B	13	L	DM	4.00	10	3.90	9.80	V+H						
TWI 4.14-18-B	18	L	DM	5.50	13.70	5.40	13.60	V+H						
TWI 4.14-25-B	25	L	DM	7.50	18.40	7.50	18.40	V+H						

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C			
			DN_1	PN_1						L	max. \varnothing	-
			[mm]	[bar]						[mm]	[kg]	-
TWI 4.14...-B	Rp 2 l	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-			

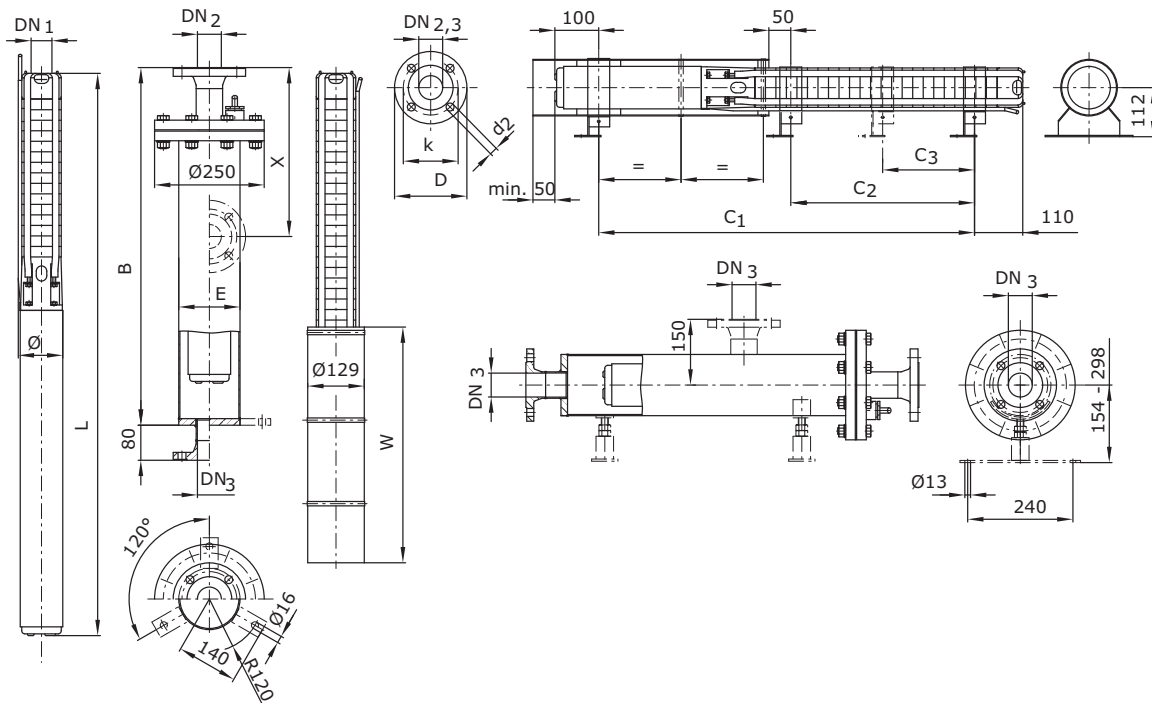
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. \varnothing with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 4.14...-B (400 V)

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 4.14-05-B	DM	1220	-	139.7	868	98	19.0	36
TWI 4.14-07-B	DM	1520	-	139.7	998	98	20.3	38
TWI 4.14-10-B	DM	1820	-	139.7	1345	98	28.6	41
TWI 4.14-13-B	DM	2120	-	139.7	1616	98	35.2	44
TWI 4.14-18-B	DM	2420	-	139.7	2055	98	44.0	46
TWI 4.14-25-B	DM	2920	-	139.7	2586	98	52.5	51

Accessories Wilo-Sub TWI 4.14...-B (400 V)

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
	–	horizontal	vertical	W	C ₁	C ₂	C ₃	R
	–			[mm]				
TWI 4.14-05-B	DM	6 037 937	4 064 431	750	658	–	–	–
TWI 4.14-07-B	DM	6 037 936	4 064 431	750	788	291	–	–
TWI 4.14-10-B	DM	6 037 936	4 064 431	750	1135	486	–	–
TWI 4.14-13-B	DM	6 038 903	4 064 432	1000	1406	681	–	–
TWI 4.14-18-B	DM	6 038 903	4 064 432	1000	1845	1006	–	–
TWI 4.14-25-B	DM	6 038 904	4 064 432	1000	2376	1461	731	–

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.14...-B	Rp 2 l	–	–	10-40	–	–	–	–	–
	–	DN 50	DN 50	–	10-40	10	4x18	125	165

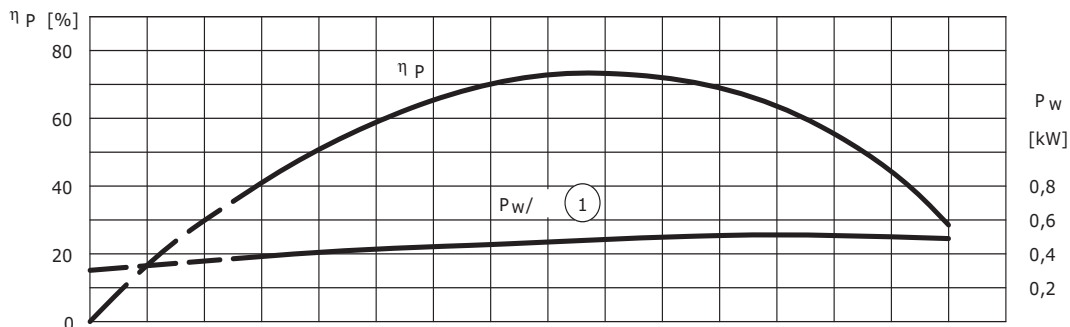
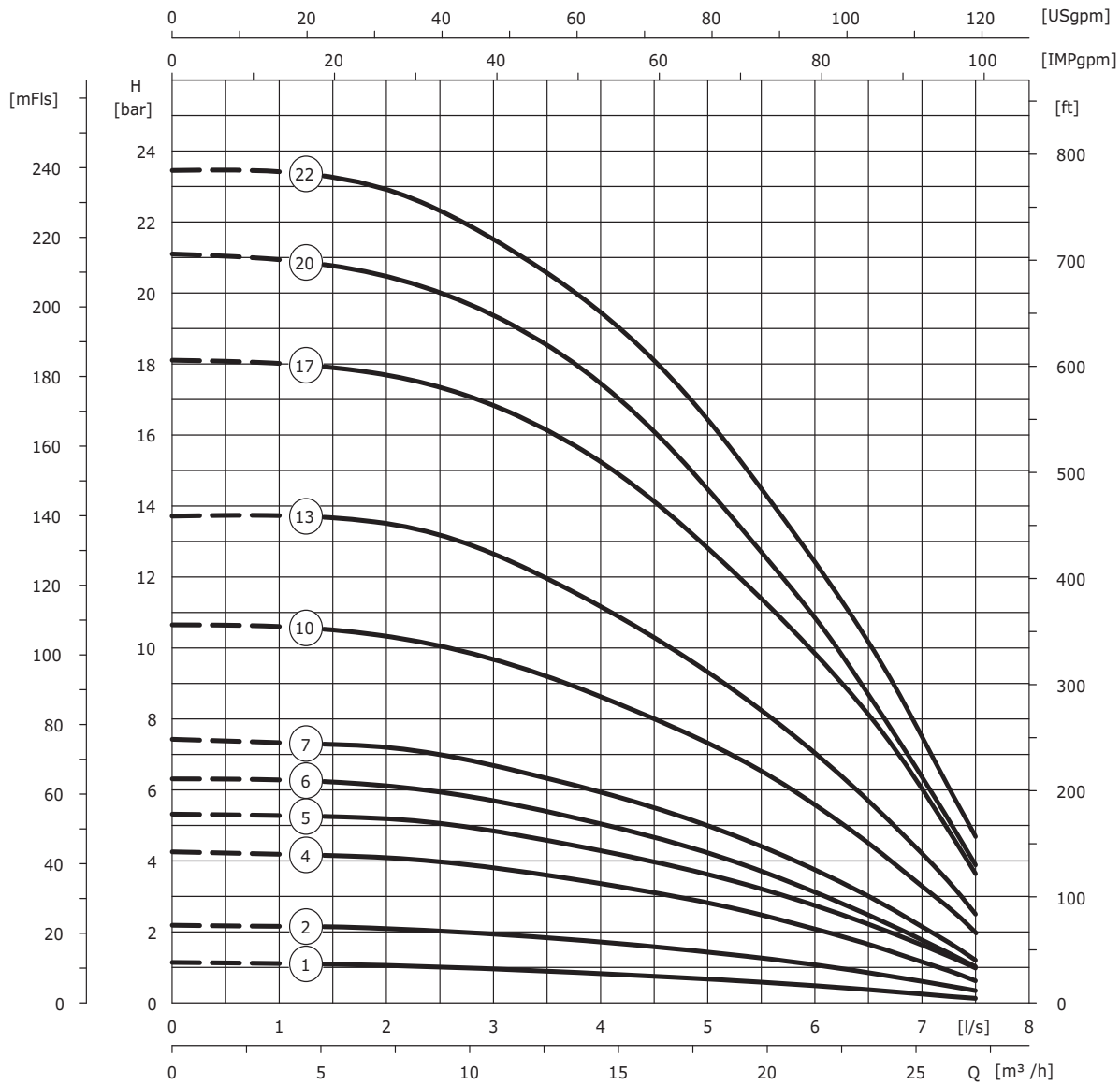
Pump with non-return valve, ¹⁾ On request, ²⁾ –, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 6.18...-B

Wilo-Sub TWI 6.18...-B



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 6.18...-B

Technical data

Wilo-Sub...	No.	Availability*	Motor type	Nominal power	Nominal current	Shaft power	Current for power requirement of the shaft	Inst.
				P_2	I_N	P_w	I	
				[kW]	[A]	[kW]	[A]	
TWI 6.18-01-B	1	L	DM	0.55	1.60	0.54	1.60	V+H
TWI 6.18-02-B	2	L	DM	1.50	4	1.16	3.60	V+H
TWI 6.18-04-B	4	L	DM	2.20	5.90	2.10	5.80	V+H
TWI 6.18-05-B	5	L	DM	3.00	7.80	2.70	7.40	V+H
TWI 6.18-06-B	6	L	DM	3.00	7.80	3	7.80	V+H
TWI 6.18-07-B	7	L	DM	3.70	9.10	3.70	9.10	V+H
TWI 6.18-10-B	10	L	DM	5.50	13.70	5.50	13.70	V+H
TWI 06.18-10-NB	10	A	NU60-2/23	5.50	12.20	5.20	11.70	V+H
TWI 06.18-13-NB	13	A	NU60-2/24	9.00	19.80	6.90	16.20	V+H
TWI 6.18-13-B	13	L	DM	7.50	16	7.10	15.20	V+H
TWI 06.18-17-NB	17	A	NU60-2/32	12.50	27.50	9.30	21.50	V+H
TWI 6.18-17-B	17	L	DM	9.30	20.70	9.30	21	V+H
TWI 06.18-20-NB	20	A	NU60-2/32	12.50	27.50	10.60	23.50	V+H
TWI 6.18-20-B	20	C	DM/SD	11.00	23.30	10.60	22.50	V+H
TWI 06.18-22-NB	22	A	NU60-2/32	12.50	27.50	11.90	26	V+H
TWI 6.18-22-B	22	C	DM/SD	15.00	31.30	12.30	27	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
			DN_1	PN_1						L	max. \emptyset
			[mm]	[bar]						[mm]	[kg]
TWI 6.18...-B	Rp 2½ I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-		

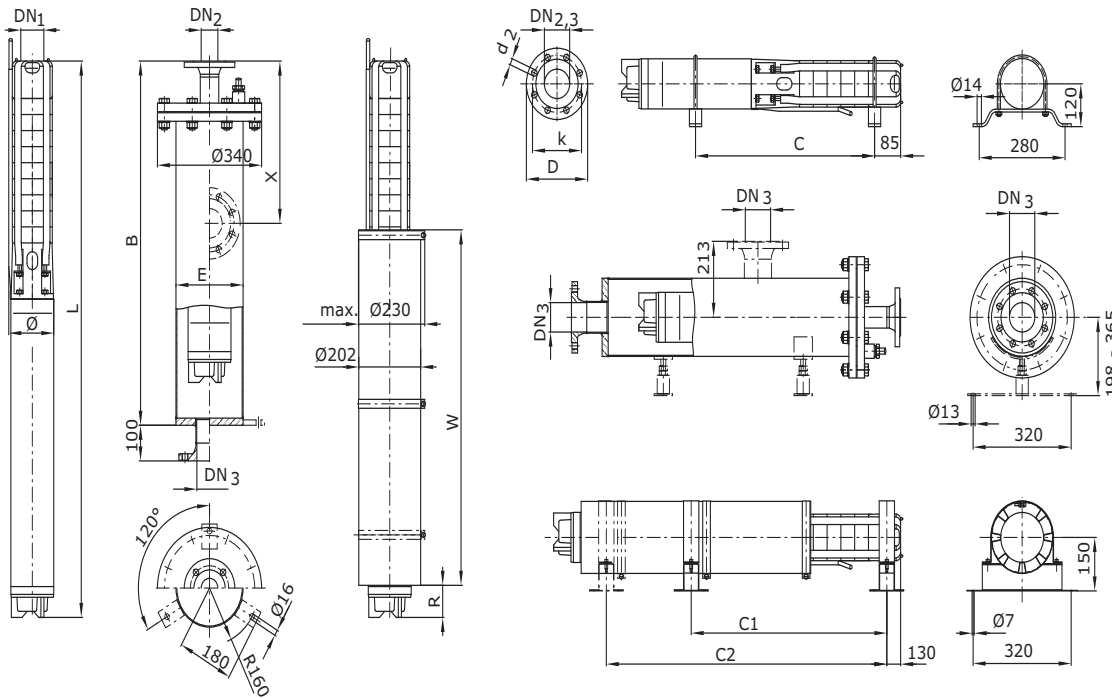
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. \emptyset with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 6.18...-B

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 6.18-01-B	DM	1050	390	219.1	592	131	13.8	57
TWI 6.18-02-B	DM	1050	490	219.1	737	131	19.0	57
TWI 6.18-04-B	DM	1350	620	219.1	886	131	23.3	62
TWI 6.18-05-B	DM	1350	760	219.1	1099	131	30.7	62
TWI 6.18-06-B	DM	1650	820	219.1	1159	131	32.1	67
TWI 6.18-07-B	DM	1650	900	219.1	1260	131	36.4	67
TWI 6.18-10-B	DM	1950	1150	219.1	1591	131	47.9	72
TWI 06.18-10-NB	NU60-2/23	1950	1140	219.1	1557	142	63.0	72
TWI 06.18-13-NB	NU60-2/24	2250	1320	219.1	1739	142	67.0	77
TWI 6.18-13-B	DM	2250	1300	219.1	1715	142	66.0	77
TWI 06.18-17-NB	NU60-2/32	2550	1610	219.1	2061	142	81.0	81
TWI 6.18-17-B	DM	2250	1560	219.1	1990	142	74.0	77
TWI 06.18-20-NB	NU60-2/32	2550	1790	219.1	2242	142	86.0	81
TWI 6.18-20-B	DM/SD	2550	1770	219.1	2203	142	82.0	81
TWI 06.18-22-NB	NU60-2/32	2850	1910	219.1	2363	142	88.0	86
TWI 6.18-22-B	DM/SD	2850	1920	219.1	2389	142	90.0	86

Accessories Wilo-Sub TWI 6.18...-B

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
		horizontal	vertical	W	C ₁	C ₂	C ₃	R
		-		[mm]				
TWI 6.18-01-B	DM	6 042 336	6 041 871	350	363	-	-	69
TWI 6.18-02-B	DM	6 042 338	6 041 873	425	465	-	-	79
TWI 6.18-04-B	DM	6 042 357	6 041 894	650	600	-	-	17
TWI 6.18-05-B	DM	6 042 357	6 041 894	650	737	-	-	34
TWI 6.18-06-B	DM	6 042 357	6 041 894	650	797	-	-	34
TWI 6.18-07-B	DM	6 042 357	6 041 894	650	879	-	-	72
TWI 6.18-10-B	DM	6 042 353	6 041 890	815	1134	-	-	59
TWI 06.18-10-NB	NU60-2/23	6 042 360	6 041 897	815	1117	-	-	88
TWI 06.18-13-NB	NU60-2/24	6 042 360	6 041 897	815	1299	-	-	88
TWI 6.18-13-B	DM	6 042 354	6 041 891	815	1287	-	-	64
TWI 06.18-17-NB	NU60-2/32	6 042 360	6 041 897	815	1581	-	-	123
TWI 6.18-17-B	DM	6 042 354	6 041 891	815	1546	-	-	52
TWI 06.18-20-NB	NU60-2/32	6 042 360	6 041 897	815	1762	-	-	123
TWI 6.18-20-B	DM/SD	6 042 354	6 041 891	815	1743	-	-	84
TWI 06.18-22-NB	NU60-2/32	6 042 360	6 041 897	815	1883	-	-	123
TWI 6.18-22-B	DM/SD	6 042 354	6 041 891	815	1896	-	-	149

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 6.18...-B	Rp 2½ l	-	-	10-40	-	-	-	-	-
	-	DN 50	-	-	10-40	-	4x18	125	165
	-	-	DN 80	-	-	10	8x18	160	200
	-	-	DN 100	-	-	10	8x18	180	220

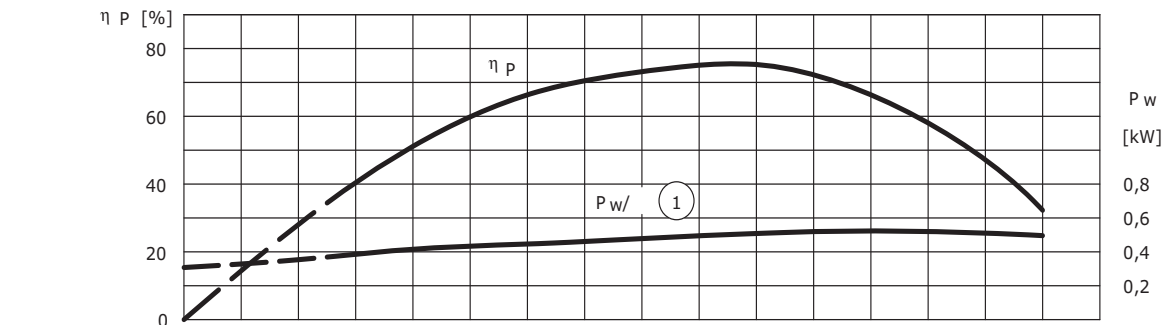
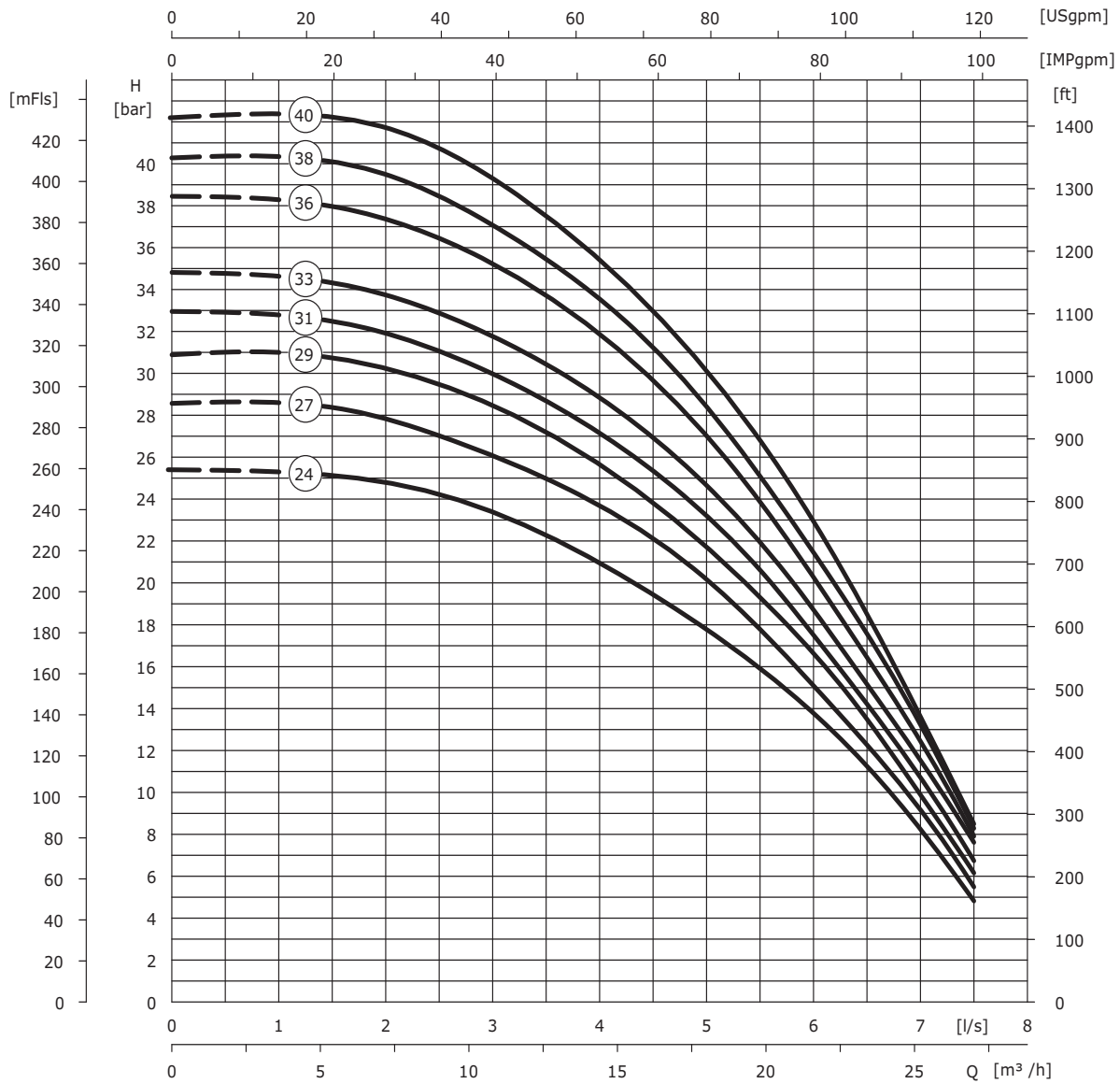
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 6.18...-B

Wilo-Sub TWI 6.18...-B



400 V, 50 Hz, ρ = 1 kg/dm³, ν = 1 × 10⁻⁶ m²/s, ISO 9906 appendix A

Technical data Wilo-Sub TWI 6.18...-B

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _w	I	
				[kW]	[A]	[kW]	[A]	
TWI 06.18-24-NB	24	A	NU60-2/40	15.50	32.50	13	28.50	V+H
TWI 6.18-24-B	24	C	DM/SD	15.00	31.30	13.40	29	V+H
TWI 06.18-27-NB	27	A	NU60-2/40	15.50	32.50	14.20	30.50	V+H
TWI 6.18-27-B	27	C	DM/SD	15.00	31.30	14.40	30.50	V+H
TWI 06.18-29-NB	29	A	NU60-2/40	15.50	32.50	15.50	32.50	V+H
TWI 6.18-29-B	29	C	DM/SD	18.50	38.50	15.60	33.50	V+H
TWI 06.18-31-NB	31	A	NU60-2/51	21.00	44.50	16.60	36	V+H
TWI 6.18-31-B	31	C	DM/SD	18.50	38.50	16.60	35.50	V+H
TWI 06.18-33-NB	33	A	NU60-2/51	21.00	44.50	17.40	37.50	V+H
TWI 6.18-33-B	33	C	DM/SD	18.50	38.50	17.50	37	V+H
TWI 06.18-36-NB	36	A	NU60-2/51	21.00	44.50	19.30	41	V+H
TWI 6.18-36-B	36	C	DM/SD	22.00	45.30	19.60	40.50	V+H
TWI 06.18-38-NB	38	A	NU60-2/51	21.00	44.50	20.10	42.50	V+H
TWI 6.18-38-B	38	C	DM/SD	22.00	45.30	20.50	42	V+H
TWI 06.18-40-NB	40	A	NU60-2/61	25.00	52	22	46.50	V+H
TWI 6.18-40-B	40	C	DM/SD	22.00	45.30	22	45.30	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
			DN ₁	PN ₁						L	max. Ø
			[mm]	[bar]						[mm]	[kg]
TWI 6.18...-B	Rp 2½ I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-		

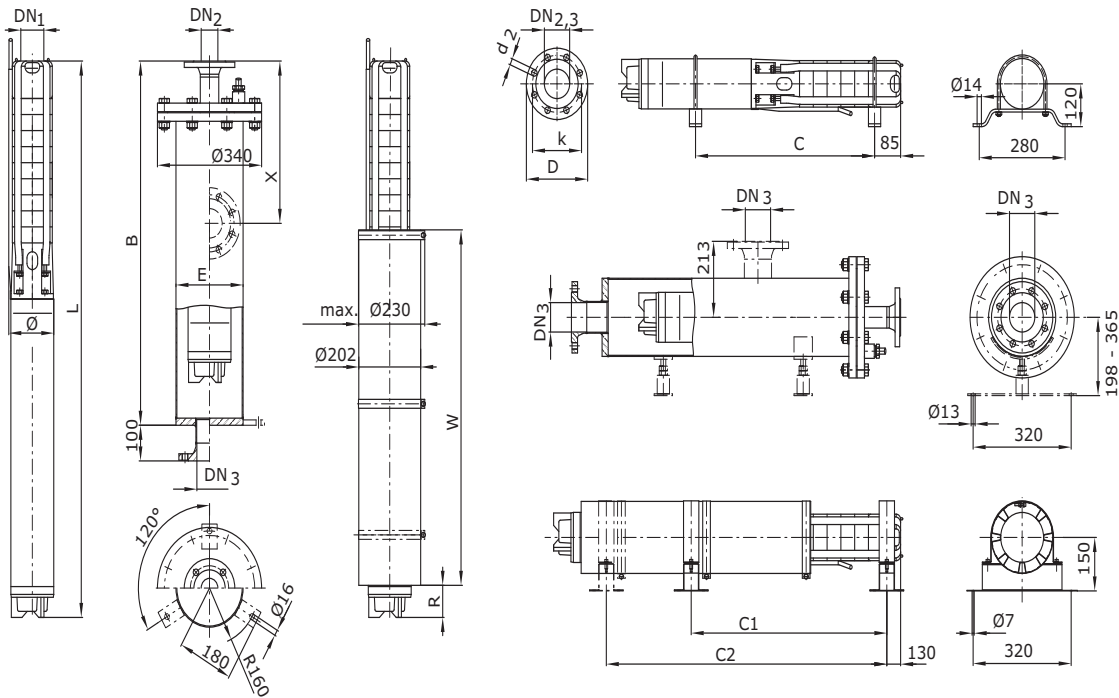
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. Ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 6.18...-B

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 06.18-24-NB	NU60-2/40	2850	2070	219.1	2564	142	99.0	86
TWI 6.18-24-B	DM/SD	2850	2040	219.1	2510	142	93.0	86
TWI 06.18-27-NB	NU60-2/40	3000	2260	219.1	2746	142	104.0	89
TWI 6.18-27-B	DM/SD	3000	2220	219.1	2692	142	98.0	89
TWI 06.18-29-NB	NU60-2/40	1)	1)	219.1	2867	142	107.0	1)
TWI 6.18-29-B	DM/SD	1)	1)	219.1	2879	142	107.0	1)
TWI 06.18-31-NB	NU60-2/51	1)	1)	219.1	3088	142	120.0	1)
TWI 6.18-31-B	DM/SD	1)	1)	219.1	3000	142	110.0	1)
TWI 06.18-33-NB	NU60-2/51	1)	1)	219.1	3209	142	122.0	1)
TWI 6.18-33-B	DM/SD	1)	1)	219.1	3121	142	113.0	1)
TWI 06.18-36-NB	NU60-2/51	1)	1)	219.1	3390	142	127.0	1)
TWI 6.18-36-B	DM/SD	1)	1)	219.1	3367	142	123.0	1)
TWI 06.18-38-NB	NU60-2/51	1)	1)	219.1	3511	142	130.0	1)
TWI 6.18-38-B	DM/SD	1)	1)	219.1	3488	142	126.0	1)
TWI 06.18-40-NB	NU60-2/61	1)	1)	219.1	3732	142	143.0	1)
TWI 6.18-40-B	DM/SD	1)	1)	219.1	3609	142	129.0	1)

Accessories Wilo-Sub TWI 6.18...-B

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
		horizontal	vertical	W	C ₁	C ₂	C ₃	R
		-		[mm]				
TWI 06.18-24-NB	NU60-2/40	6 042 370	6 042 320	925	2044	-	-	93
TWI 6.18-24-B	DM/SD	6 042 354	6 041 891	815	2017	-	-	149
TWI 06.18-27-NB	NU60-2/40	6 042 370	6 042 320	925	2226	-	-	93
TWI 6.18-27-B	DM/SD	6 042 354	6 041 891	815	2199	-	-	149
TWI 06.18-29-NB	NU60-2/40	6 042 370	6 042 320	925	2347	-	-	93
TWI 6.18-29-B	DM/SD	6 042 347	6 041 883	925	2353	-	-	105
TWI 06.18-31-NB	NU60-2/51	6 042 369	6 042 318	1000	2518	-	-	118
TWI 6.18-31-B	DM/SD	6 042 347	6 041 883	925	2474	-	-	105
TWI 06.18-33-NB	NU60-2/51	6 042 369	6 042 318	1000	2639	-	-	118
TWI 6.18-33-B	DM/SD	6 042 347	6 041 883	925	2595	-	-	105
TWI 06.18-36-NB	NU60-2/51	6 042 369	6 042 318	1000	2820	-	-	118
TWI 6.18-36-B	DM/SD	6 042 349	6 041 886	1000	2809	-	-	95
TWI 06.18-38-NB	NU60-2/51	6 042 369	6 042 318	1000	2941	-	-	118
TWI 6.18-38-B	DM/SD	6 042 349	6 041 886	1000	2930	-	-	95
TWI 06.18-40-NB	NU60-2/61	6 042 367	6 041 906	1100	2959	3343	-	118
TWI 6.18-40-B	DM/SD	6 042 349	6 041 886	1000	3051	-	-	95

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 6.18...-B	Rp 2½ l	-	-	10-40	-	-	-	-	-
	-	DN 50	-	-	10-40	-	4x18	125	165
	-	-	DN 80	-	-	10	8x18	160	200
	-	-	DN 100	-	-	10	8x18	180	220

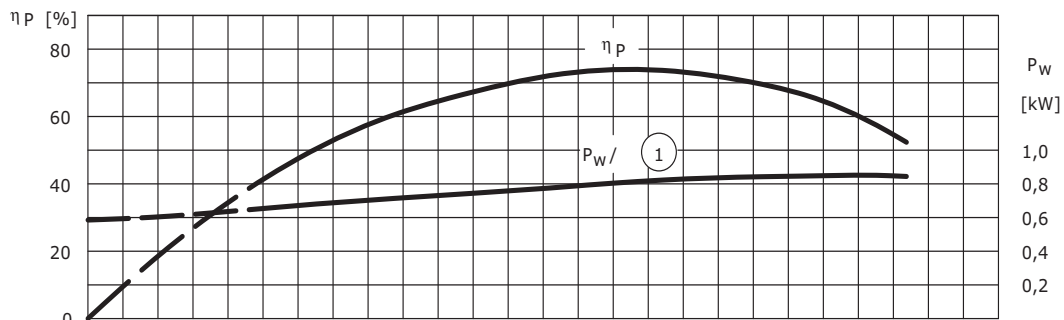
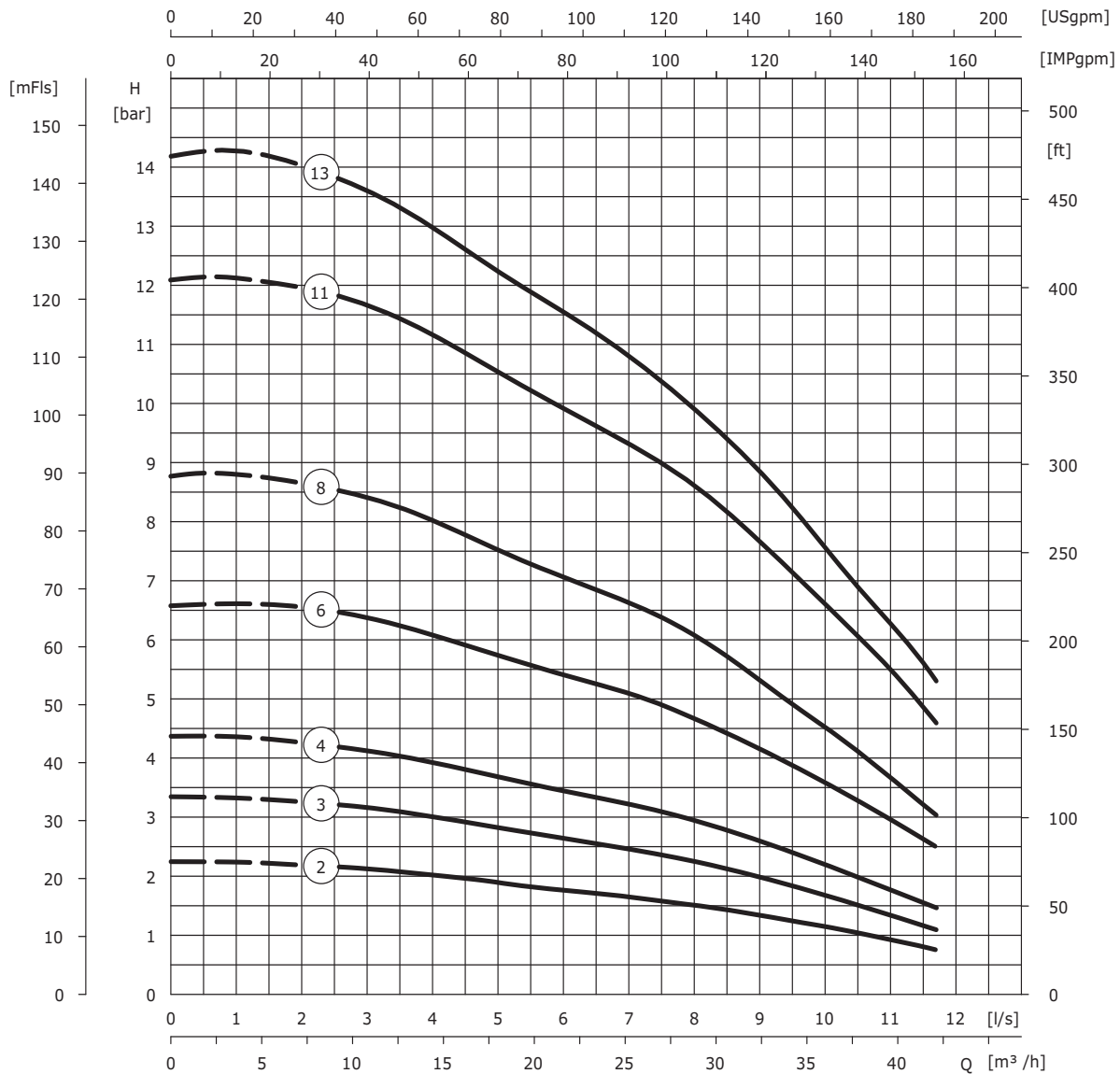
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 6.30...-B

Wilo-Sub TWI 6.18...-B



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 6.30...-B

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	
				[kW]	[A]	[kW]	[A]	
TWI 6.30-02-B	2	L	DM	2.20	5.90	1.80	5.30	V+H
TWI 6.30-03-B	3	L	DM	3.00	7.80	2.70	7.30	V+H
TWI 6.30-04-B	4	L	DM	3.70	9.10	3.50	8.50	V+H
TWI 06.30-04-NB	4	A	NU60-2/23	5.50	12.20	3.50	8.80	V+H
TWI 6.30-06-B	6	L	DM	5.50	13.70	5.50	13.70	V+H
TWI 06.30-06-NB	6	A	NU60-2/23	5.50	12.20	5.20	11.70	V+H
TWI 6.30-08-B	8	L	DM	7.50	16	7	15.10	V+H
TWI 06.30-08-NB	8	A	NU60-2/24	9.00	19.80	7	16.30	V+H
TWI 6.30-11-B	11	L	DM/SD	11.00	23.30	10	22	V+H
TWI 06.30-11-NB	11	A	NU60-2/32	12.50	27.50	10	22.50	V+H
TWI 6.30-13-B	13	L	DM/SD	11.00	23.30	11	23.30	V+H
TWI 06.30-13-NB	13	A	NU60-2/32	12.50	27.50	11	24.50	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN_1	PN_1	L	max. ϕ					
	[mm]	[bar]	[mm]		[kg]				
TWI 6.30...-B	Rp 3 l	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-

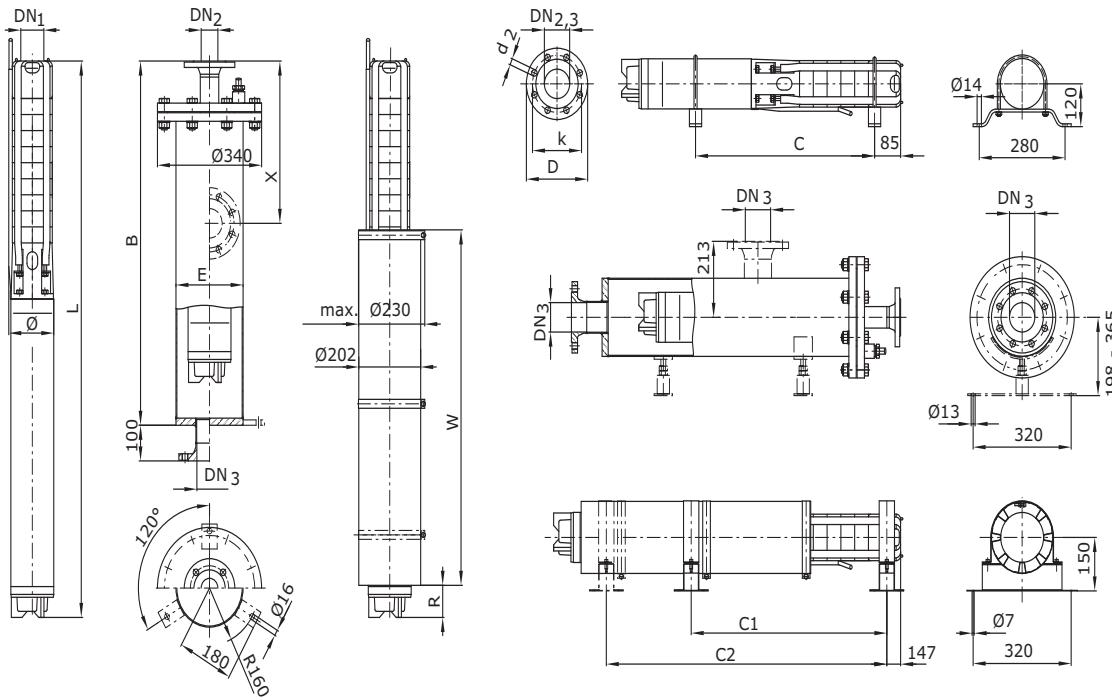
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 6.30...-B

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 6.30-02-B	DM	1350	560	219.1	824	142	22.4	64
TWI 6.30-03-B	DM	1350	730	219.1	1072	142	30.0	64
TWI 6.30-04-B	DM	1650	850	219.1	1208	142	34.5	69
TWI 06.30-04-NB	NU60-2/23	1650	910	219.1	1324	149	57.0	69
TWI 6.30-06-B	DM	1950	1110	219.1	1550	142	45.1	74
TWI 06.30-06-NB	NU60-2/23	1950	1100	219.1	1516	149	60.0	74
TWI 6.30-08-B	DM	1950	1270	219.1	1684	149	62.0	74
TWI 06.30-08-NB	NU60-2/24	2250	1300	219.1	1708	149	64.0	79
TWI 6.30-11-B	DM/SD	2550	1600	219.1	2037	149	73.0	83
TWI 06.30-11-NB	NU60-2/32	2550	1620	219.1	2076	149	77.0	83
TWI 6.30-13-B	DM/SD	2550	1790	219.1	2229	149	76.0	83
TWI 06.30-13-NB	NU60-2/32	2550	1810	219.1	2268	149	80.0	83

Accessories Wilo-Sub TWI 6.30...-B

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
		horizontal	vertical	W	C ₁	C ₂	C ₃	R
		-		[mm]				
TWI 6.30-02-B	DM	6 042 357	6 041 894	650	521	-	-	4
TWI 6.30-03-B	DM	6 042 357	6 041 894	650	693	-	-	60
TWI 6.30-04-B	DM	6 042 357	6 041 894	650	810	-	-	98
TWI 06.30-04-NB	NU60-2/23	6 042 360	6 041 897	815	867	-	-	69
TWI 6.30-06-B	DM	6 042 353	6 041 890	815	1076	-	-	85
TWI 06.30-06-NB	NU60-2/23	6 042 360	6 041 897	815	1059	-	-	69
TWI 6.30-08-B	DM	6 042 354	6 041 891	815	1239	-	-	141
TWI 06.30-08-NB	NU60-2/24	6 042 360	6 041 897	815	1251	-	-	69
TWI 6.30-11-B	DM/SD	6 042 354	6 041 891	815	1560	-	-	110
TWI 06.30-11-NB	NU60-2/32	6 042 360	6 041 897	815	1579	-	-	149
TWI 6.30-13-B	DM/SD	6 042 354	6 041 891	815	1752	-	-	110
TWI 06.30-13-NB	NU60-2/32	6 042 360	6 041 897	815	1771	-	-	149

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 6.30...-B	Rp 3 l	-	-	10-40	-	-	-	-	-
	-	DN 80	DN 80	-	10-40	10	8x18	160	200
	-	-	DN 100	-	-	10	8x18	180	220

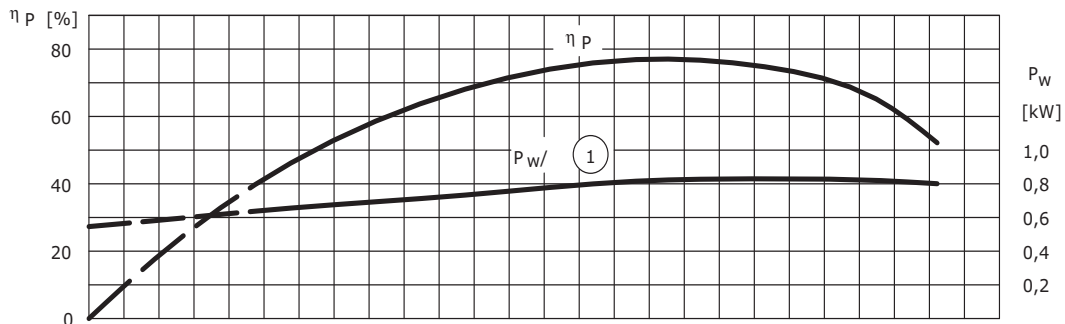
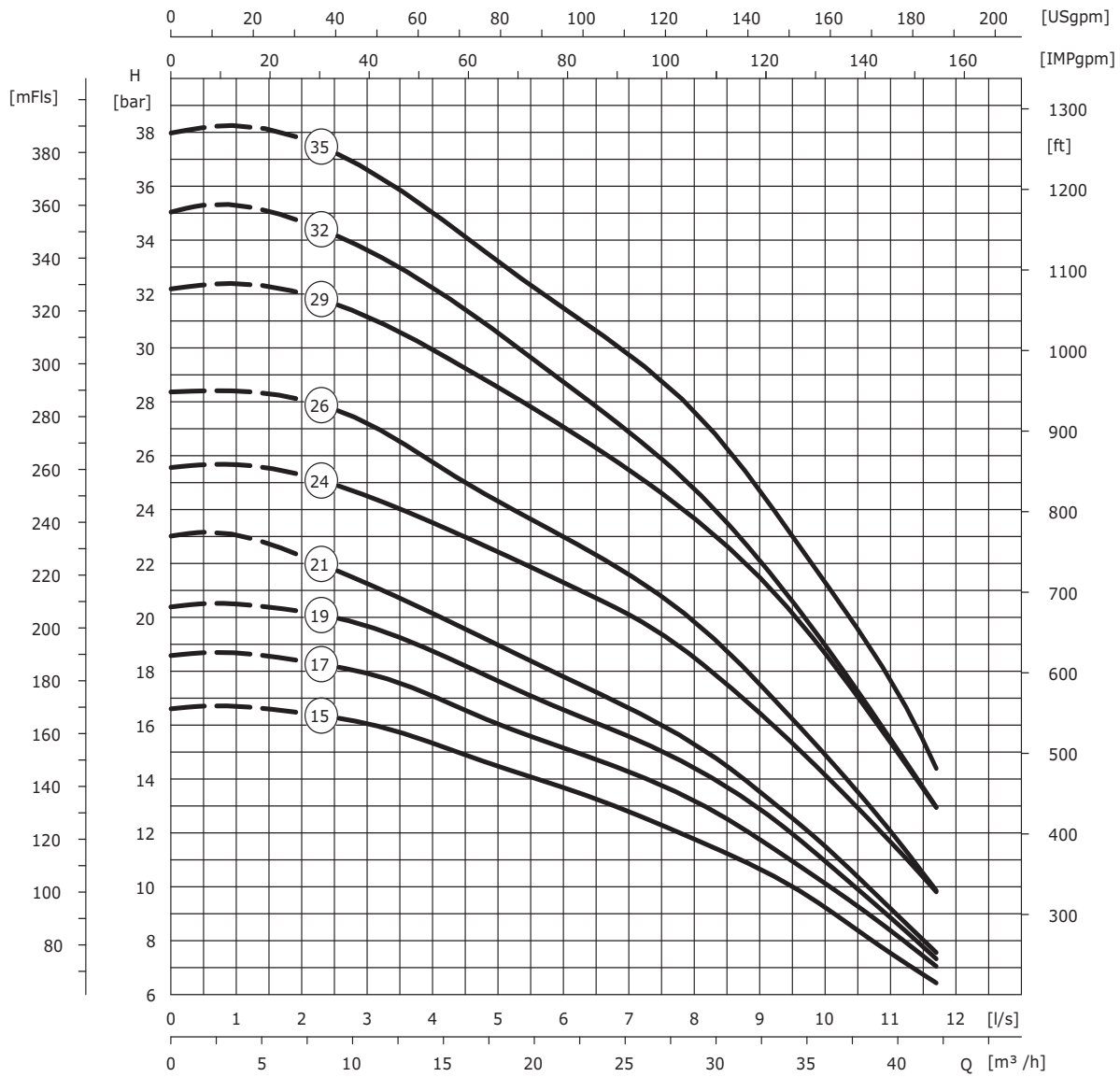
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 6.30...-B

Wilo-Sub TWI 6.30...-B



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 6.30...-B

Technical data

Wilo-Sub...	No.	Availability*	Motor type	Nominal power	Nominal current	Shaft power	Current for power requirement of the shaft	Inst.
				P_2	I_N	P_w	I	-
				[kW]	[A]	[kW]	[A]	-
TWI 6.30-15-B	15	L	DM/SD	15.00	31.30	13.50	29	V+H
TWI 06.30-15-NB	15	A	NU60-2/40	15.50	32.50	13.20	29	V+H
TWI 6.30-17-B	17	C	DM/SD	15.00	31.30	15	31.30	V+H
TWI 06.30-17-NB	17	A	NU60-2/40	15.50	32.50	14.60	31	V+H
TWI 6.30-19-B	19	C	DM/SD	18.50	38.50	16	34.50	V+H
TWI 06.30-19-NB	19	A	NU60-2/51	21.00	44.50	16	35	V+H
TWI 6.30-21-B	21	C	DM/SD	18.50	38.50	16.80	35.50	V+H
TWI 06.30-21-NB	21	A	NU60-2/51	21.00	44.50	16.80	36.50	V+H
TWI 6.30-24-B	24	C	DM/SD	22.00	45.30	21.40	44	V+H
TWI 06.30-24-NB	24	A	NU60-2/61	25.00	52	21.40	45.50	V+H
TWI 6.30-26-B	26	C	DM/SD	30.00	63.50	23.10	51	V+H
TWI 06.30-26-NB	26	A	NU60-2/61	25.00	52	22.50	47	V+H
TWI 6.30-29-B	29	C	DM/SD	30.00	63.50	27.80	58	V+H
TWI 06.30-29-NB	29	A	NU601-2/74	30.00	67	27.30	63	V+H
TWI 6.30-32-B	32	C	DM/SD	30.00	63.50	28.50	60	V+H
TWI 06.30-32-NB	32	A	NU601-2/74	30.00	67	28.50	65	V+H
TWI 6.30-35-B	35	C	DM/SD	30.00	63.50	30	63.50	V+H
TWI 06.30-35-NB	35	A	NU601-2/74	30.00	67	30	67	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	PN ₁	L	max. ϕ	-				
	[mm]	[bar]	[mm]		[kg]	-			
TWI 6.30...-B	Rp 3 l	10-40	5)	5)	5)	5)	1	-	-

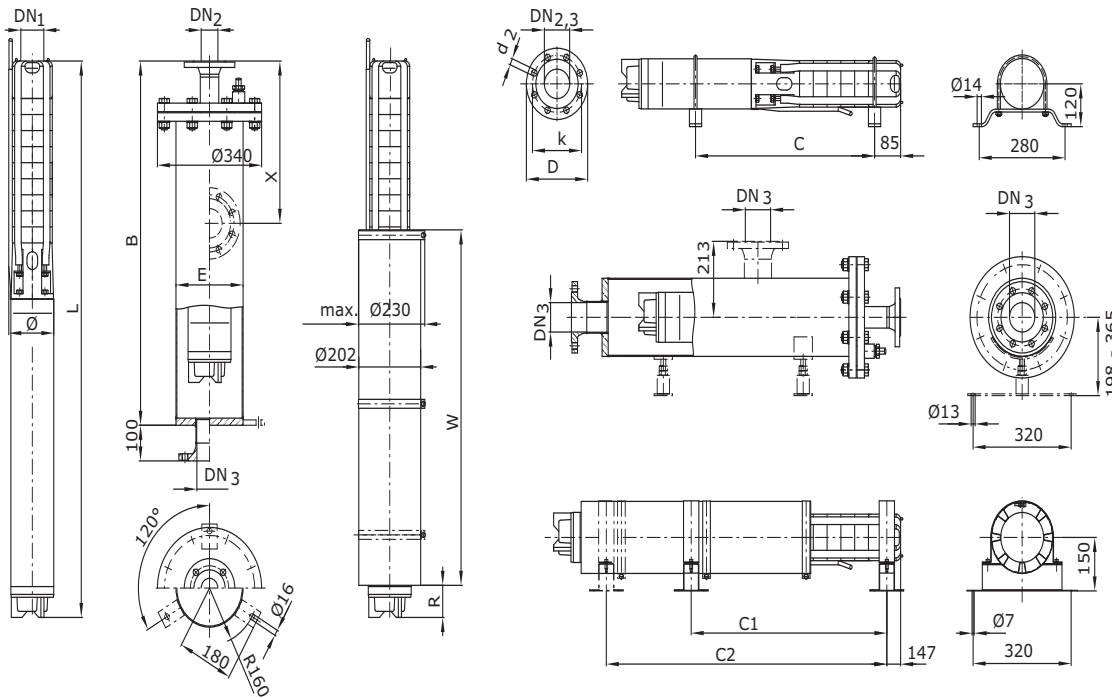
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Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 6.30...-B

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 6.30-15-B	DM/SD	2850	2020	219.1	2486	149	85.0	88
TWI 06.30-15-NB	NU60-2/40	2850	2050	219.1	2540	149	91.0	88
TWI 6.30-17-B	DM/SD	1)	2210	219.1	2678	149	89.0	1)
TWI 06.30-17-NB	NU60-2/40	1)	2240	219.1	2732	149	95.0	1)
TWI 6.30-19-B	DM/SD	1)	1)	219.1	2936	149	99.0	1)
TWI 06.30-19-NB	NU60-2/51	1)	1)	219.1	3024	149	108.0	1)
TWI 6.30-21-B	DM/SD	1)	1)	219.1	3128	149	102.0	1)
TWI 06.30-21-NB	NU60-2/51	1)	1)	219.1	3216	149	112.0	1)
TWI 6.30-24-B	DM/SD	1)	1)	219.1	3481	149	113.0	1)
TWI 06.30-24-NB	NU60-2/61	1)	1)	219.1	3604	149	127.0	1)
TWI 6.30-26-B	DM/SD	1)	1)	219.1	3803	149	131.0	1)
TWI 06.30-26-NB	NU60-2/61	1)	1)	219.1	3796	149	130.0	1)
TWI 6.30-29-B	DM/SD	1)	1)	219.1	4091	149	136.0	1)
TWI 06.30-29-NB	NU601-2/74	1)	1)	219.1	4224	152	153.0	1)
TWI 6.30-32-B	DM/SD	1)	1)	219.1	4379	149	141.0	1)
TWI 06.30-32-NB	NU601-2/74	1)	1)	219.1	4512	152	158.0	1)
TWI 6.30-35-B	DM/SD	1)	1)	219.1	4667	149	146.0	1)
TWI 06.30-35-NB	NU601-2/74	1)	1)	219.1	4800	152	164.0	1)

Accessories Wilo-Sub TWI 6.30...-B

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
		horizontal	vertical	W	C ₁	C ₂	C ₃	R
		-		[mm]				
TWI 6.30-15-B	DM/SD	6 042 347	6 041 883	925	1976	-	-	65
TWI 06.30-15-NB	NU60-2/40	6 042 370	6 042 320	925	2003	-	-	119
TWI 6.30-17-B	DM/SD	6 042 347	6 041 883	925	2168	-	-	65
TWI 06.30-17-NB	NU60-2/40	6 042 370	6 042 320	925	2195	-	-	119
TWI 6.30-19-B	DM/SD	6 042 349	6 041 886	1000	2393	-	-	56
TWI 06.30-19-NB	NU60-2/51	6 042 369	6 042 318	1000	2437	-	-	144
TWI 6.30-21-B	DM/SD	6 042 349	6 041 886	1000	2585	-	-	56
TWI 06.30-21-NB	NU60-2/51	6 042 369	6 042 318	1000	2629	-	-	144
TWI 6.30-24-B	DM/SD	6 042 349	6 041 886	1000	2906	-	-	121
TWI 06.30-24-NB	NU60-2/61	6 042 367	6 041 906	1100	2788	3198	-	144
TWI 6.30-26-B	DM/SD	6 042 339	6 041 875	1100	2980	3451	-	151
TWI 06.30-26-NB	NU60-2/61	6 042 367	6 041 906	1100	2980	3390	-	144
TWI 6.30-29-B	DM/SD	6 042 339	6 041 875	1100	3268	3739	-	151
TWI 06.30-29-NB	NU601-2/74	6 042 365	6 041 904	1265	3433	3818	-	119
TWI 6.30-32-B	DM/SD	6 042 339	6 041 875	1100	3556	4027	-	151
TWI 06.30-32-NB	NU601-2/74	6 042 365	6 041 904	1265	3721	4106	-	119
TWI 6.30-35-B	DM/SD	6 042 339	6 041 875	1100	3844	4315	-	151
TWI 06.30-35-NB	NU601-2/74	6 042 365	6 041 904	1265	4009	4394	-	119

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 6.30...-B	Rp 3 l	-	-	10-40	-	-	-	-	-
	-	DN 80	DN 80	-	10-40	10	8x18	160	200
	-	-	DN 100	-	-	10	8x18	180	220

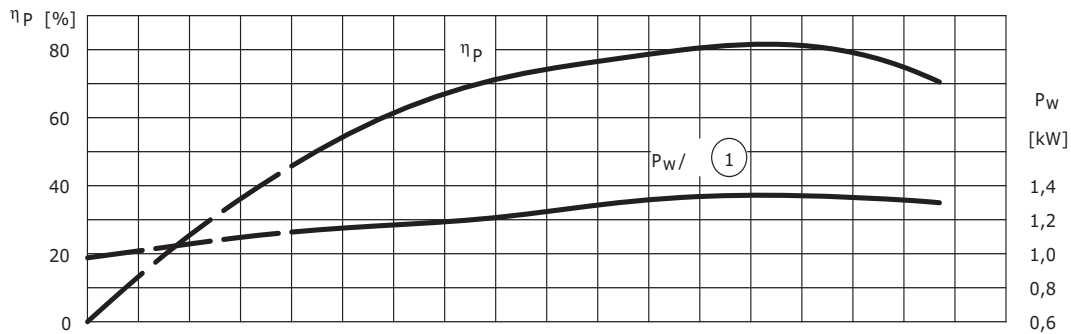
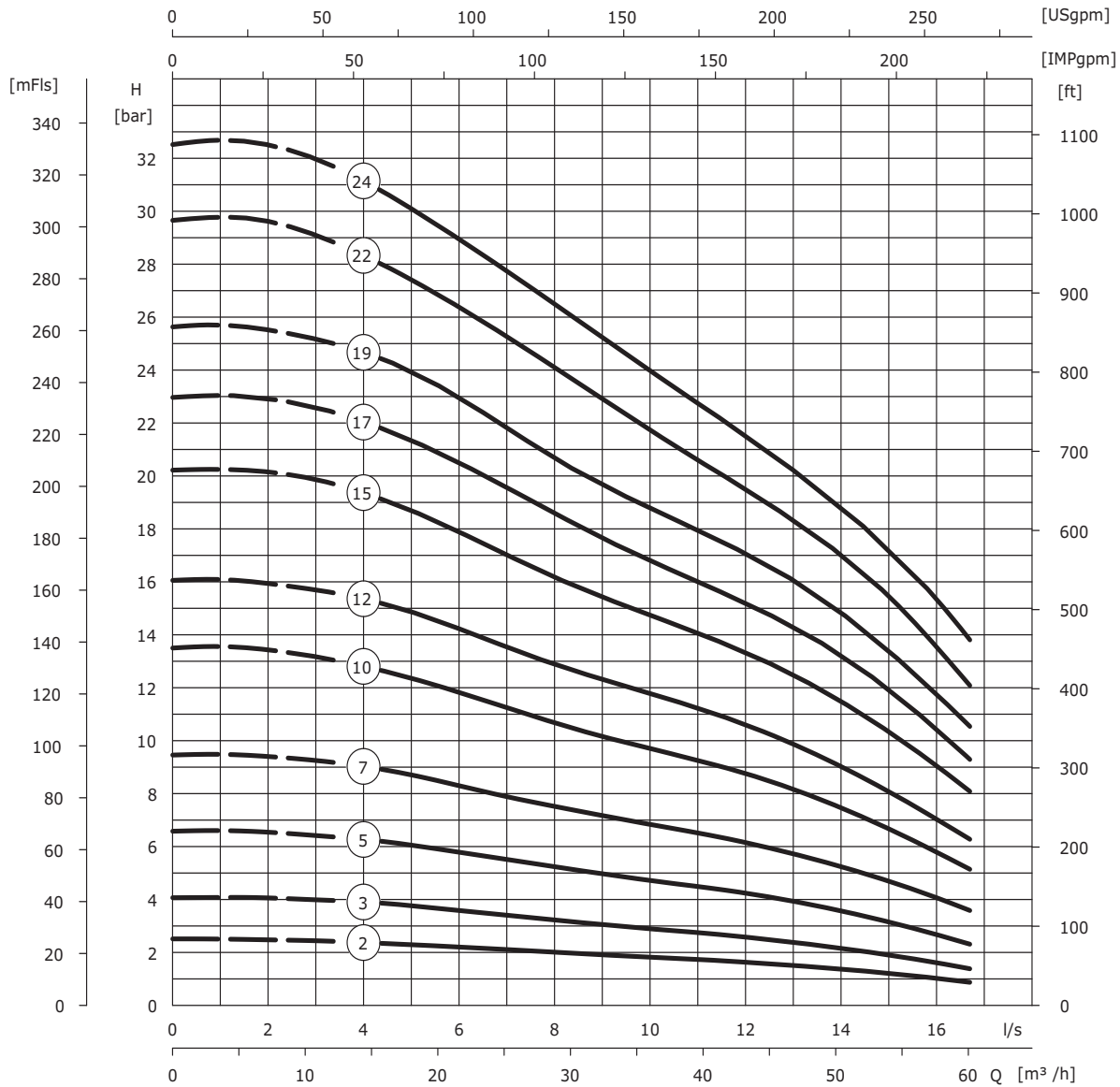
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 6.50...-B

Wilo-Sub TWI 6.50...-B



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 6.50...-B

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal cur- rent	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _w	I	-
				[kW]	[A]	[kW]	[A]	-
TWI 6.50-02-B	2	L	DM	3.00	7.80	3	7.80	V+H
TWI 6.50-03-B	3	L	DM	5.50	13.70	4.30	11.60	V+H
TWI 6.50-05-B	5	L	DM	7.50	16	7.20	15.50	V+H
TWI 06.50-05-NB	5	A	NU60-2/24	9.00	19.80	7	16.30	V+H
TWI 6.50-07-B	7	L	DM/SD	11.00	23.30	10	21.50	V+H
TWI 06.50-07-NB	7	A	NU60-2/32	12.50	27.50	10	22.50	V+H
TWI 6.50-10-B	10	L	DM/SD	15.00	31.30	14.50	31	V+H
TWI 06.50-10-NB	10	A	NU60-2/40	15.50	32.50	14	30	V+H
TWI 6.50-12-B	12	L	DM/SD	18.50	38.50	17.20	36.50	V+H
TWI 06.50-12-NB	12	A	NU60-2/51	21.00	44.50	17.20	37	V+H
TWI 6.50-15-B	15	C	DM/SD	22.00	45.30	22	44.50	V+H
TWI 06.50-15-NB	15	A	NU60-2/61	25.00	52	22	46.50	V+H
TWI 6.50-17-B	17	C	DM/SD	30.00	63.50	24.70	55	V+H
TWI 06.50-17-NB	17	A	NU60-2/61	25.00	52	24.20	51	V+H
TWI 6.50-19-B	19	C	DM/SD	30.00	63.50	27.70	58	V+H
TWI 06.50-19-NB	19	A	NU601-2/74	30.00	67	36.80	63	V+H
TWI 6.50-22-B	22	C	DM/SD	30.00	63.50	30	55	V+H
TWI 06.50-22-NB	22	A	NU601-2/74	30.00	67	30	67	V+H
TWI 6.50-24-B	24	C	DM/SD	37.00	73	34.50	69	V+H
TWI 06.50-24-NB	24	A	NU611-2/82	34.00	71	32.60	68	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
			DN ₁	PN ₁						L	max. ø
			[mm]	[bar]						[mm]	[kg]
TWI 6.50...-B	Rp 3 I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-		

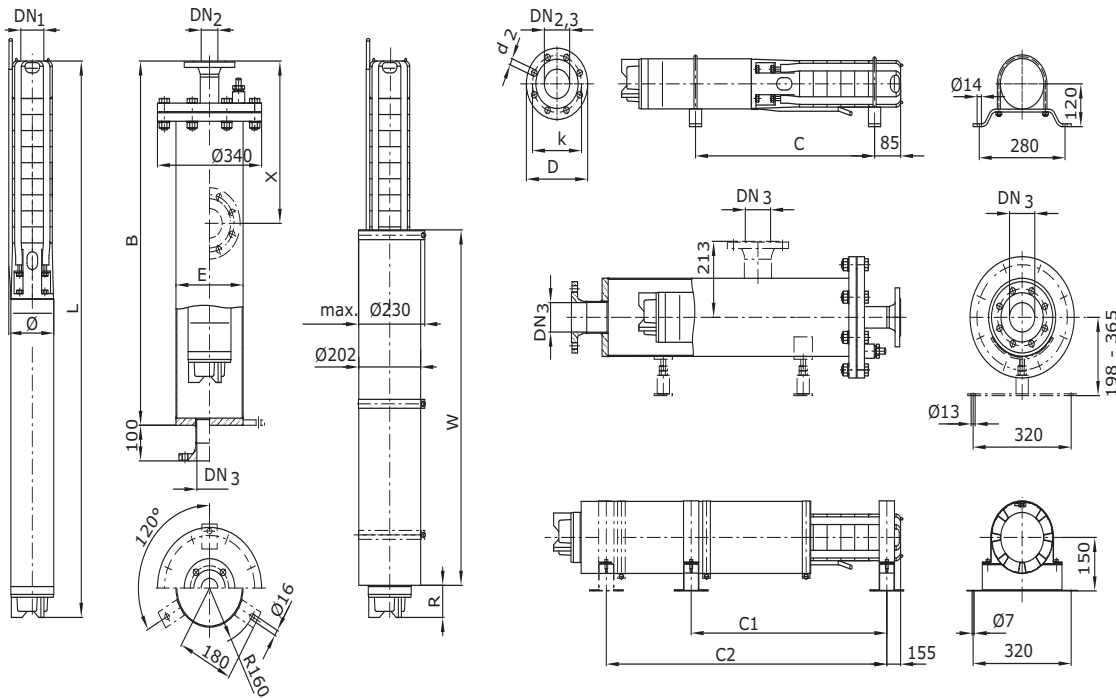
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 6.50...-B

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 6.50-02-B	DM	1350	670	219.1	1010	148	29.1	64
TWI 6.50-03-B	DM	1650	830	219.1	1313	148	41.4	69
TWI 6.50-05-B	DM	1950	1070	219.1	1481	152	59.0	74
TWI 06.50-05-NB	NU60-2/24	1950	1090	219.1	1505	152	61.0	74
TWI 6.50-07-B	DM/SD	2250	1340	219.1	1772	152	70.0	79
TWI 06.50-07-NB	NU60-2/32	2250	1360	219.1	1811	152	74.0	79
TWI 6.50-10-B	DM/SD	2550	1710	219.1	2176	152	82.0	83
TWI 06.50-10-NB	NU60-2/40	2550	1740	219.1	2230	152	88.0	83
TWI 6.50-12-B	DM/SD	2850	1960	219.1	2468	152	93.0	88
TWI 06.50-12-NB	NU60-2/51	2850	2010	219.1	2556	152	103.0	88
TWI 6.50-15-B	DM/SD	1)	1)	219.1	2872	152	106.0	1)
TWI 06.50-15-NB	NU60-2/61	1)	1)	219.1	2995	152	120.0	1)
TWI 6.50-17-B	DM/SD	1)	1)	219.1	3228	152	125.0	1)
TWI 06.50-17-NB	NU60-2/61	1)	1)	219.1	3221	152	125.0	1)
TWI 6.50-19-B	DM/SD	1)	1)	219.1	3454	152	130.0	1)
TWI 06.50-19-NB	NU601-2/74	1)	1)	219.1	3587	152	147.0	1)
TWI 6.50-22-B	DM/SD	1)	1)	219.1	3793	152	137.0	1)
TWI 06.50-22-NB	NU601-2/74	1)	1)	219.1	3926	152	154.0	1)
TWI 6.50-24-B	DM/SD	1)	1)	219.1	4387	152	174.0	1)
TWI 06.50-24-NB	NU611-2/82	1)	1)	219.1	4283	152	161.0	1)

Accessories Wilo-Sub TWI 6.50...-B

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
		horizontal	vertical	W	C ₁	C ₂	C ₃	R
		-		[mm]				
TWI 6.50-02-B	DM	6 042 359	6 041 896	650	623	-	-	68
TWI 6.50-03-B	DM	6 042 355	6 041 892	815	831	-	-	93
TWI 6.50-05-B	DM	6 042 343	6 041 879	815	1028	-	-	53
TWI 06.50-05-NB	NU60-2/24	6 042 372	6 042 322	815	1040	-	-	77
TWI 6.50-07-B	DM/SD	6 042 343	6 041 879	815	1287	-	-	118
TWI 06.50-07-NB	NU60-2/32	6 042 372	6 042 322	815	1306	-	-	157
TWI 6.50-10-B	DM/SD	6 042 348	6 041 884	925	1658	-	-	73
TWI 06.50-10-NB	NU60-2/40	6 042 368	6 042 316	1000	1685	-	-	52
TWI 6.50-12-B	DM/SD	6 042 350	6 041 887	1000	1917	-	-	64
TWI 06.50-12-NB	NU60-2/51	6 042 366	6 041 905	1100	1824	2142	-	52
TWI 6.50-15-B	DM/SD	6 042 350	6 041 887	1000	2289	-	-	129
TWI 06.50-15-NB	NU60-2/61	6 042 366	6 041 905	1100	2163	2581	-	152
TWI 6.50-17-B	DM/SD	6 042 340	6 041 876	1100	2389	2868	-	159
TWI 06.50-17-NB	NU60-2/61	6 042 366	6 041 905	1100	2389	2807	-	152
TWI 6.50-19-B	DM/SD	6 042 340	6 041 876	1100	2615	3094	-	159
TWI 06.50-19-NB	NU601-2/74	6 042 364	6 041 903	1265	2780	3173	-	127
TWI 6.50-22-B	DM/SD	6 042 340	6 041 876	1100	2954	3433	-	159
TWI 06.50-22-NB	NU601-2/74	6 042 364	6 041 903	1265	3119	3512	-	127
TWI 6.50-24-B	DM/SD	6 042 342	6 041 878	1540	3455	4027	-	87
TWI 06.50-24-NB	NU611-2/82	6 042 362	6 041 901	1380	3345	3869	-	93

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 6.50...-B	Rp 3 l	-	-	10-40	-	-	-	-	-
	-	DN 80	DN 80	-	10-40	10	8x18	160	200
	-	-	DN 100	-	-	10	8x18	180	220

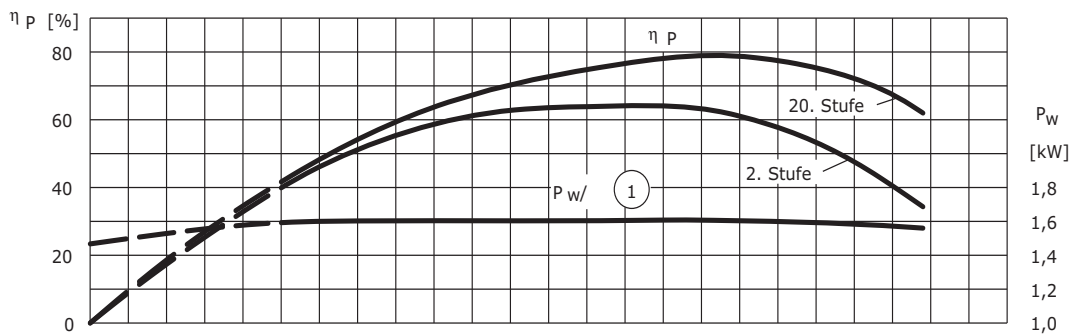
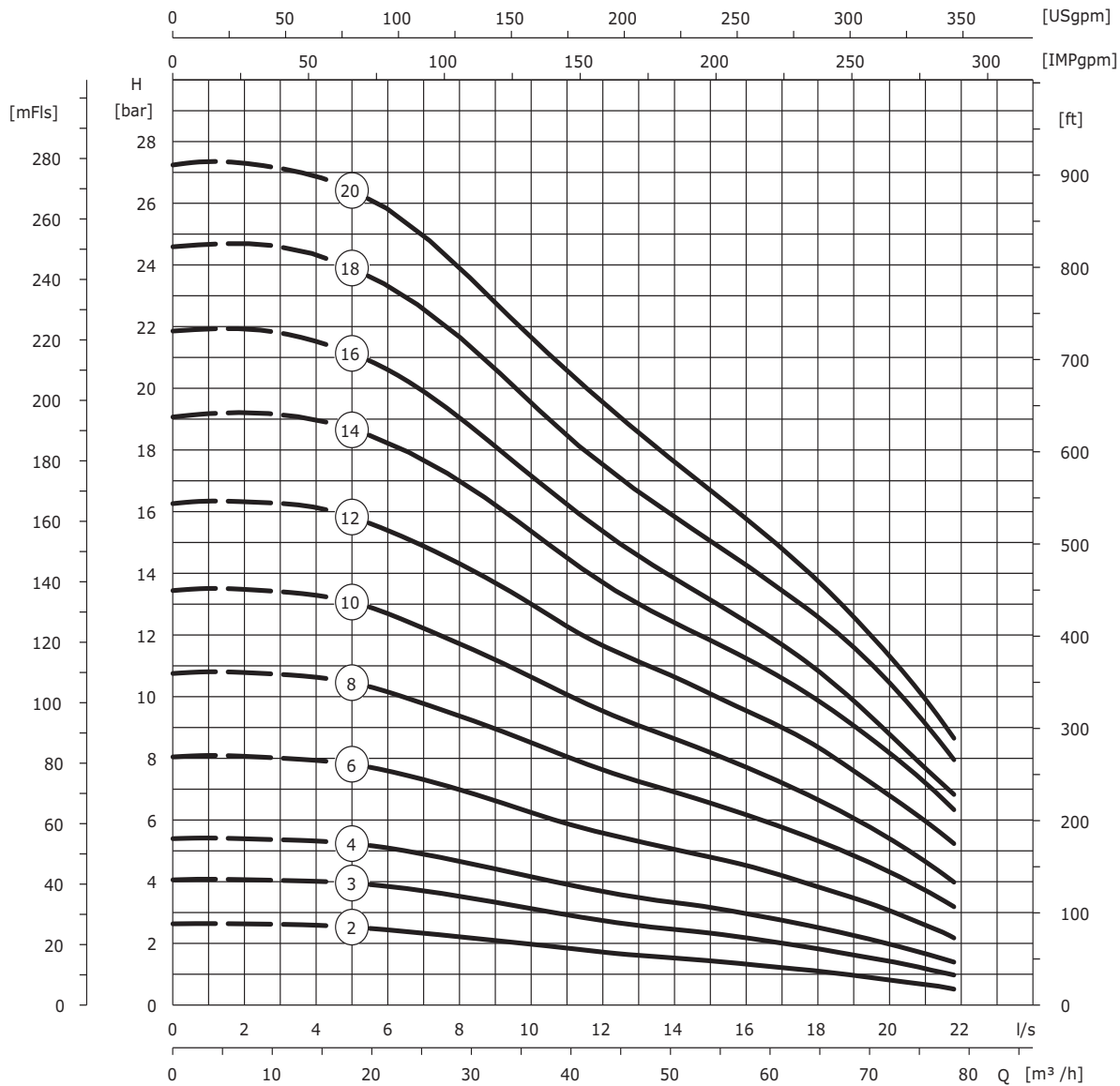
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 6.60...-B

Wilo-Sub TWI 6.60...-B



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 6.60...-B

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal cur- rent	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _W	I	-
				[kW]	[A]	[kW]	[A]	-
TWI 6.60-02-B	2	L	DM	3.70	9.10	3.70	9.10	V+H
TWI 6.60-03-B	3	L	DM	5.50	13.70	5.50	13.70	V+H
TWI 6.60-04-B	4	L	DM	7.50	16	7	15.10	V+H
TWI 06.60-04-NB	4	A	NU60-2/24	9.00	19.80	6.70	15.80	V+H
TWI 6.60-06-B	6	L	DM/SD	11.00	23.30	10.40	22.50	V+H
TWI 06.60-06-NB	6	A	NU60-2/32	12.50	27.50	10.10	22.50	V+H
TWI 6.60-08-B	8	L	DM/SD	15.00	31.30	13.90	30	V+H
TWI 06.60-08-NB	8	A	NU60-2/40	15.50	32.50	13.40	29	V+H
TWI 6.60-10-B	10	L	DM/SD	18.50	38.50	16	34.50	V+H
TWI 06.60-10-NB	10	A	NU60-2/51	21.00	44.50	16	35	V+H
TWI 6.60-12-B	12	L	DM/SD	22.00	45.30	20.50	42	V+H
TWI 06.60-12-NB	12	A	NU60-2/51	21.00	44.50	20	42	V+H
TWI 6.60-14-B	14	C	DM/SD	30.00	63.50	24.60	55	V+H
TWI 06.60-14-NB	14	A	NU60-2/61	25.00	52	23.60	49.50	V+H
TWI 6.60-16-B	16	C	DM/SD	30.00	63.50	28	59	V+H
TWI 06.60-16-NB	16	A	NU601-2/74	30.00	67	27.30	63	V+H
TWI 6.60-18-B	18	C	DM/SD	30.00	63.50	30	63	V+H
TWI 06.60-18-NB	18	A	NU601-2/74	30.00	67	29.40	66	V+H
TWI 6.60-20-B	20	C	DM/SD	37.00	73	34	68	V+H
TWI 06.60-20-NB	20	A	NU611-2/82	34.00	71	32.50	68	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request, C = components on stock, order-related manufacture ca. 2 weeks

Non-return valves

Wilo-Sub...	Connection	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
			DN ₁	PN ₁						L	max. ø
			[mm]	[bar]						[mm]	[kg]
TWI 6.60...-B	Rp 3 I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-		

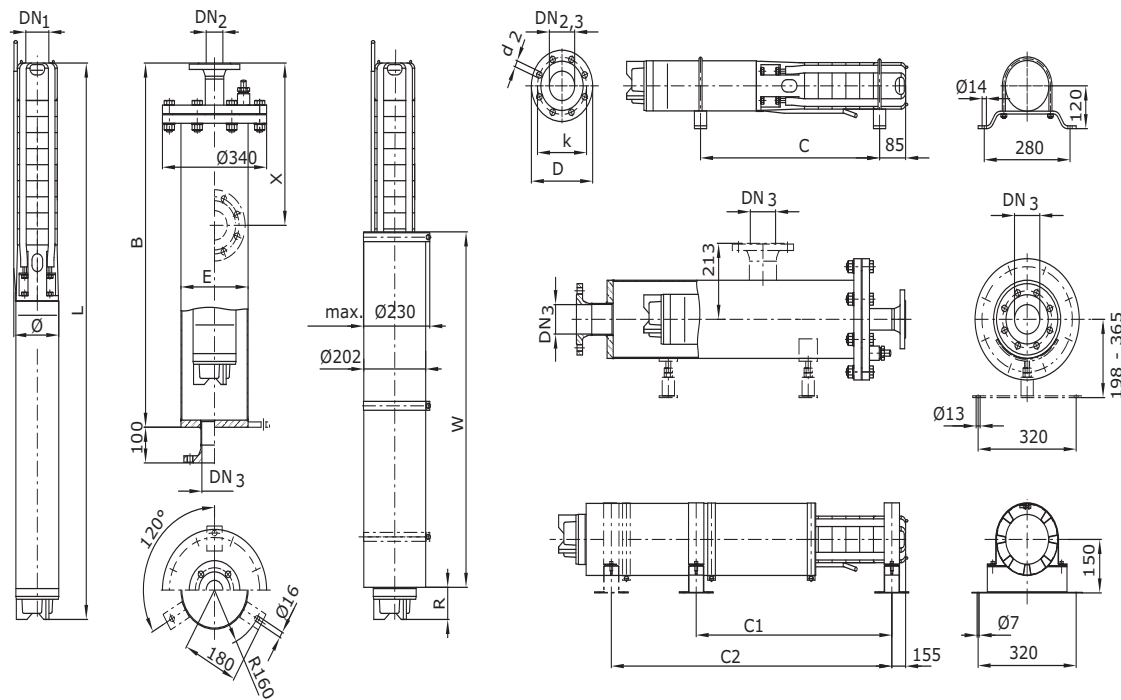
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 6.60...-B

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 6.60-02-B	DM	1350	690	219.1	1050	148	31.9	64
TWI 6.60-03-B	DM	1650	830	219.1	1313	152	41.4	69
TWI 6.60-04-B	DM	1650	960	219.1	1368	152	57.0	69
TWI 06.60-04-NB	NU60-2/24	1650	980	219.1	1392	152	59.0	69
TWI 6.60-06-B	DM/SD	1950	1220	219.1	1659	152	67.0	74
TWI 06.60-06-NB	NU60-2/32	1950	1240	219.1	1698	152	71.0	74
TWI 6.60-08-B	DM/SD	2250	1480	219.1	1950	152	78.0	79
TWI 06.60-08-NB	NU60-2/40	2250	1510	219.1	2004	152	84.0	79
TWI 6.60-10-B	DM/SD	2550	1740	219.1	2242	152	89.0	83
TWI 06.60-10-NB	NU60-2/51	2850	1790	219.1	2330	152	98.0	88
TWI 6.60-12-B	DM/SD	2850	1990	219.1	2533	152	99.0	88
TWI 06.60-12-NB	NU60-2/51	2850	2010	219.1	2556	152	103.0	88
TWI 6.60-14-B	DM/SD	1)	1)	219.1	2889	152	118.0	1)
TWI 06.60-14-NB	NU60-2/61	1)	1)	219.1	2882	152	118.0	1)
TWI 6.60-16-B	DM/SD	1)	1)	219.1	3115	152	123.0	1)
TWI 06.60-16-NB	NU601-2/74	1)	1)	219.1	3248	152	140.0	1)
TWI 6.60-18-B	DM/SD	1)	1)	219.1	3341	152	127.0	1)
TWI 06.60-18-NB	NU601-2/74	1)	1)	219.1	3474	152	145.0	1)
TWI 6.60-20-B	DM/SD	1)	1)	219.1	3952	152	167.0	1)
TWI 06.60-20-NB	NU611-2/82	1)	1)	219.1	3831	152	151.0	1)

Accessories Wilo-Sub TWI 6.60...-B

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
		horizontal	vertical	W	C ₁	C ₂	C ₃	R
		-		[mm]				
TWI 6.60-02-B	DM	6 042 359	6 041 896	650	644	-	-	106
TWI 6.60-03-B	DM	6 042 355	6 041 892	815	831	-	-	93
TWI 6.60-04-B	DM	6 042 343	6 041 879	815	915	-	-	53
TWI 06.60-04-NB	NU60-2/24	6 042 372	6 042 322	815	927	-	-	77
TWI 6.60-06-B	DM/SD	6 042 343	6 041 879	815	1174	-	-	118
TWI 06.60-06-NB	NU60-2/32	6 042 372	6 042 322	815	1193	-	-	157
TWI 6.60-08-B	DM/SD	6 042 348	6 041 884	925	1432	-	-	73
TWI 06.60-08-NB	NU60-2/40	6 042 368	6 042 316	1000	1459	-	-	52
TWI 6.60-10-B	DM/SD	6 042 350	6 041 887	1000	1691	-	-	64
TWI 06.60-10-NB	NU60-2/51	6 042 366	6 041 905	1100	1598	1916	-	52
TWI 6.60-12-B	DM/SD	6 042 350	6 041 887	1000	1950	-	-	129
TWI 06.60-12-NB	NU60-2/51	6 042 366	6 041 905	1100	1824	2142	-	52
TWI 6.60-14-B	DM/SD	6 042 340	6 041 876	1100	2050	2529	-	159
TWI 06.60-14-NB	NU60-2/61	6 042 366	6 041 905	1100	2050	2468	-	152
TWI 6.60-16-B	DM/SD	6 042 340	6 041 876	1100	2276	2755	-	159
TWI 06.60-16-NB	NU601-2/74	6 042 364	6 041 903	1265	2441	2834	-	127
TWI 6.60-18-B	DM/SD	6 042 340	6 041 876	1100	2502	2981	-	159
TWI 06.60-18-NB	NU601-2/74	6 042 364	6 041 903	1265	2667	3060	-	127
TWI 6.60-20-B	DM/SD	6 042 342	6 041 878	1540	3003	3592	-	104
TWI 06.60-20-NB	NU611-2/82	6 042 362	6 041 901	1430	2893	3417	-	93

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 6.60...-B	Rp 3 l	-	-	10-40	-	-	-	-	-
	-	DN 80	DN 80	-	10-40	10	8x18	160	200
	-	-	DN 100	-	-	10	8x18	180	220

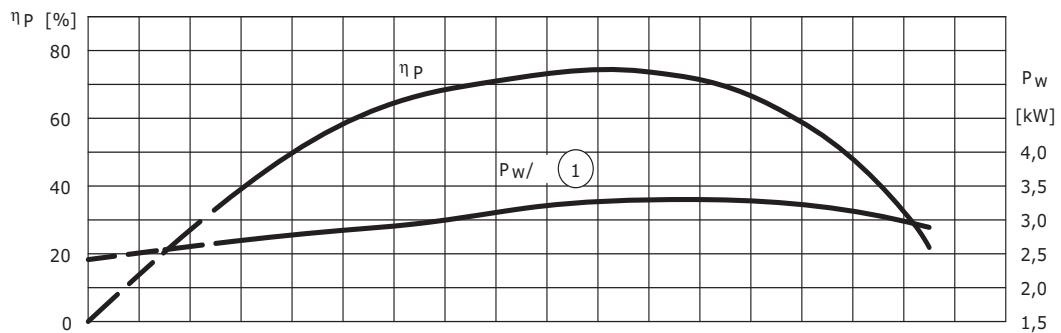
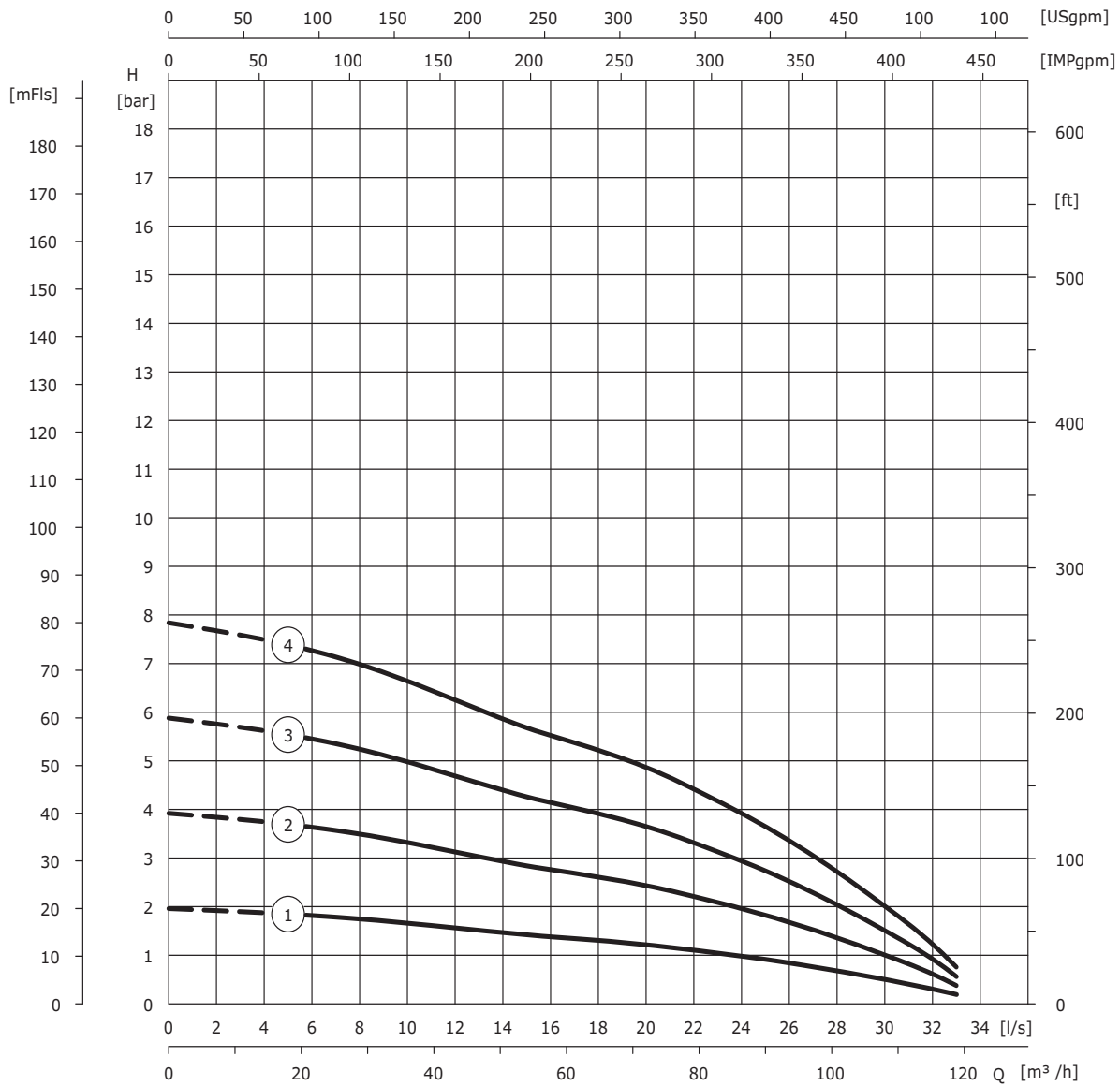
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 08.80...-NB

Wilo-Sub TWI 08.80...-NB



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 08.80...-NB

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I	-
				[kW]	[A]	[kW]	[A]	-
TWI 08.80-01-NB	1	A	NU60-2/23	5.50	12.20	3.70	9.20	V+H
TWI 08.80-01-NB	1	A	NU501-2/4	4.00	9.10	3.70	8.60	V+H
TWI 08.80-02-NB	2	A	NU60-2/24	9.00	19.80	7	16.30	V+H
TWI 08.80-02-NB	2	A	NU501-2/7	7.50	16	7	15	V+H
TWI 08.80-02-SB	2	A	NU60-2/23	5.50	12.20	5.50	12.20	V+H
TWI 08.80-02-SB	2	A	NU501-2/5	5.50	12.30	5.50	12.30	V+H
TWI 08.80-03-NB	3	A	NU60-2/32	12.50	27.50	10.40	23	V+H
TWI 08.80-03-NB	3	A	NU501-2/11	11.00	23.50	10.40	22.50	V+H
TWI 08.80-03-SB	3	A	NU60-2/24	9.00	19.80	8.50	18.90	V+H
TWI 08.80-03-SB	3	A	NU501-2/9	9.30	21	8.90	20.50	V+H
TWI 08.80-04-NB	4	A	NU60-2/40	15.50	32.50	13.80	29.50	V+H
TWI 08.80-04-NB	4	A	NU501-2/15	15.00	31.50	14	30	V+H
TWI 08.80-04-SB	4	A	NU60-2/32	12.50	27.50	12.10	26.50	V+H
TWI 08.80-04-SB	4	A	NU501-2/15	15.00	31.50	12.50	27	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-Sub...	Connec- tion	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN_1	-	PN_1	L	max. ϕ	-	-	-	-	-
	[mm]	-	[bar]	[mm]		[kg]	-	-	-	-
TWI 08.80...-NB	Rp 5 l	-	10-40	5)	5)	5)	5)	1	-	-

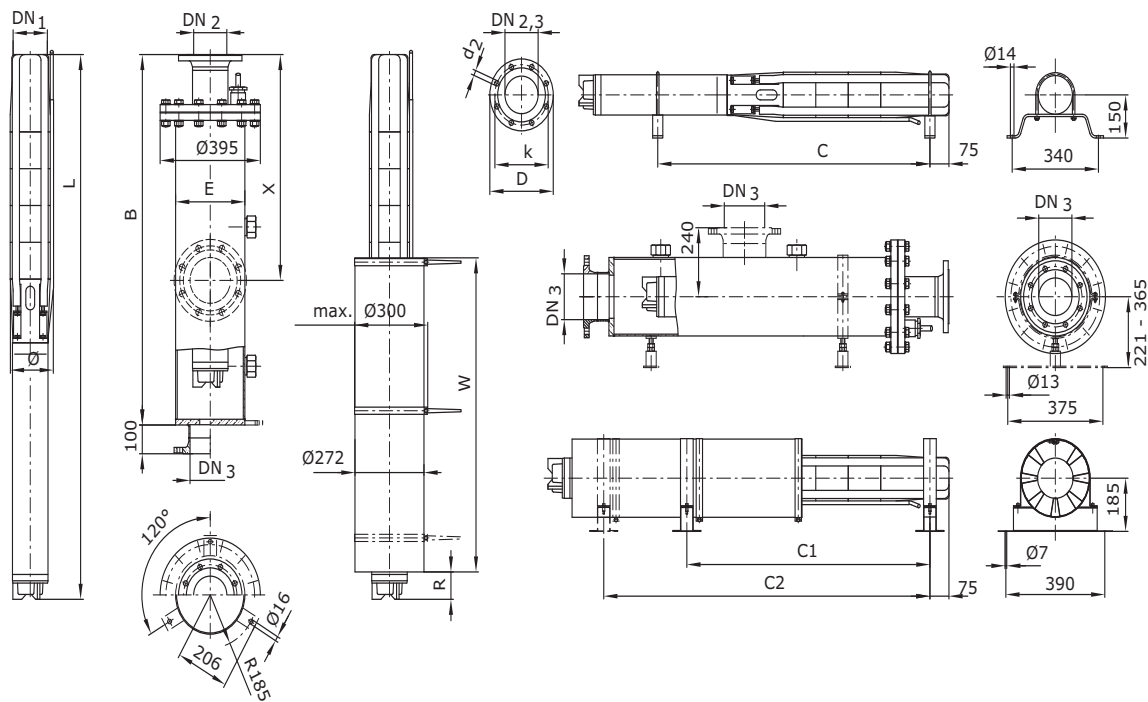
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 08.80...-NB

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 08.80-01-NB	NU60-2/23	1700	870	273	1288	186	70.0	108
TWI 08.80-01-NB	NU501-2/4	1700	820	273	1199	186	61.0	108
TWI 08.80-02-NB	NU60-2/24	2000	1000	273	1416	186	74.0	116
TWI 08.80-02-NB	NU501-2/7	2000	980	273	1392	186	72.0	116
TWI 08.80-02-SB	NU60-2/23	2000	1000	273	1416	186	74.0	116
TWI 08.80-02-SB	NU501-2/5	2000	970	273	1361	186	68.0	116
TWI 08.80-03-NB	NU60-2/32	2000	1170	273	1624	186	85.0	116
TWI 08.80-03-NB	NU501-2/11	2000	1140	273	1585	186	81.0	116
TWI 08.80-03-SB	NU60-2/24	2000	1130	273	1544	186	77.0	116
TWI 08.80-03-SB	NU501-2/9	2000	1130	273	1553	186	78.0	116
TWI 08.80-04-NB	NU60-2/40	2300	1340	273	1833	186	97.0	124
TWI 08.80-04-NB	NU501-2/15	2300	1310	273	1779	186	91.0	124
TWI 08.80-04-SB	NU60-2/32	2300	1300	273	1753	186	89.0	124
TWI 08.80-04-SB	NU501-2/15	2300	1310	273	1779	186	91.0	124

Accessories Wilo-Sub TWI 08.80...-NB

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
		horizontal	vertical	W	C ₁	C ₂	C ₃	R
		-		[mm]				
TWI 08.80-01-NB	NU60-2/23	6 043 203	6 043 128	835	783	954	-	120
TWI 08.80-01-NB	NU501-2/4	6 043 231	6 043 167	750	859	-	-	116
TWI 08.80-02-NB	NU60-2/24	6 043 203	6 043 128	835	911	1082	-	120
TWI 08.80-02-NB	NU501-2/7	6 043 199	6 043 124	835	911	1112	-	96
TWI 08.80-02-SB	NU60-2/23	6 043 203	6 043 128	835	911	1082	-	120
TWI 08.80-02-SB	NU501-2/5	6 043 199	6 043 124	835	911	1081	-	65
TWI 08.80-03-NB	NU60-2/32	6 043 207	6 043 132	985	1189	1290	-	50
TWI 08.80-03-NB	NU501-2/11	6 043 199	6 043 124	846	1039	1305	-	150
TWI 08.80-03-SB	NU60-2/24	6 043 203	6 043 128	835	1039	1210	-	120
TWI 08.80-03-SB	NU501-2/9	6 043 199	6 043 124	835	1039	1273	-	129
TWI 08.80-04-NB	NU60-2/40	6 043 246	6 043 195	1000	1368	-	-	115
TWI 08.80-04-NB	NU501-2/15	6 043 242	6 043 191	1000	1341	-	-	61
TWI 08.80-04-SB	NU60-2/32	6 043 207	6 043 132	985	1318	1419	-	50
TWI 08.80-04-SB	NU501-2/15	6 043 242	6 043 191	1000	1341	-	-	61

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 08.80...-NB	Rp 5 l	-	-	10-40	-	-	-	-	-
	-	DN 100	-	-	10-16	-	8x18	180	220
	-	DN 100	-	-	25-40	-	8x22	190	235
	-	DN 125	DN 125	-	10-16	10	8x18	210	250
	-	DN 125	-	-	25-40	-	8x26	220	270
	-	DN 150	DN 150	-	10-16	10	8x22	240	285
	-	DN 150	-	-	25-40	-	8x26	250	300

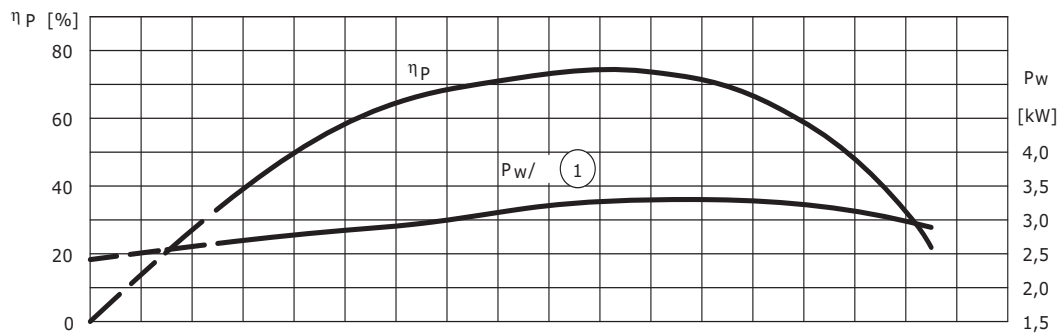
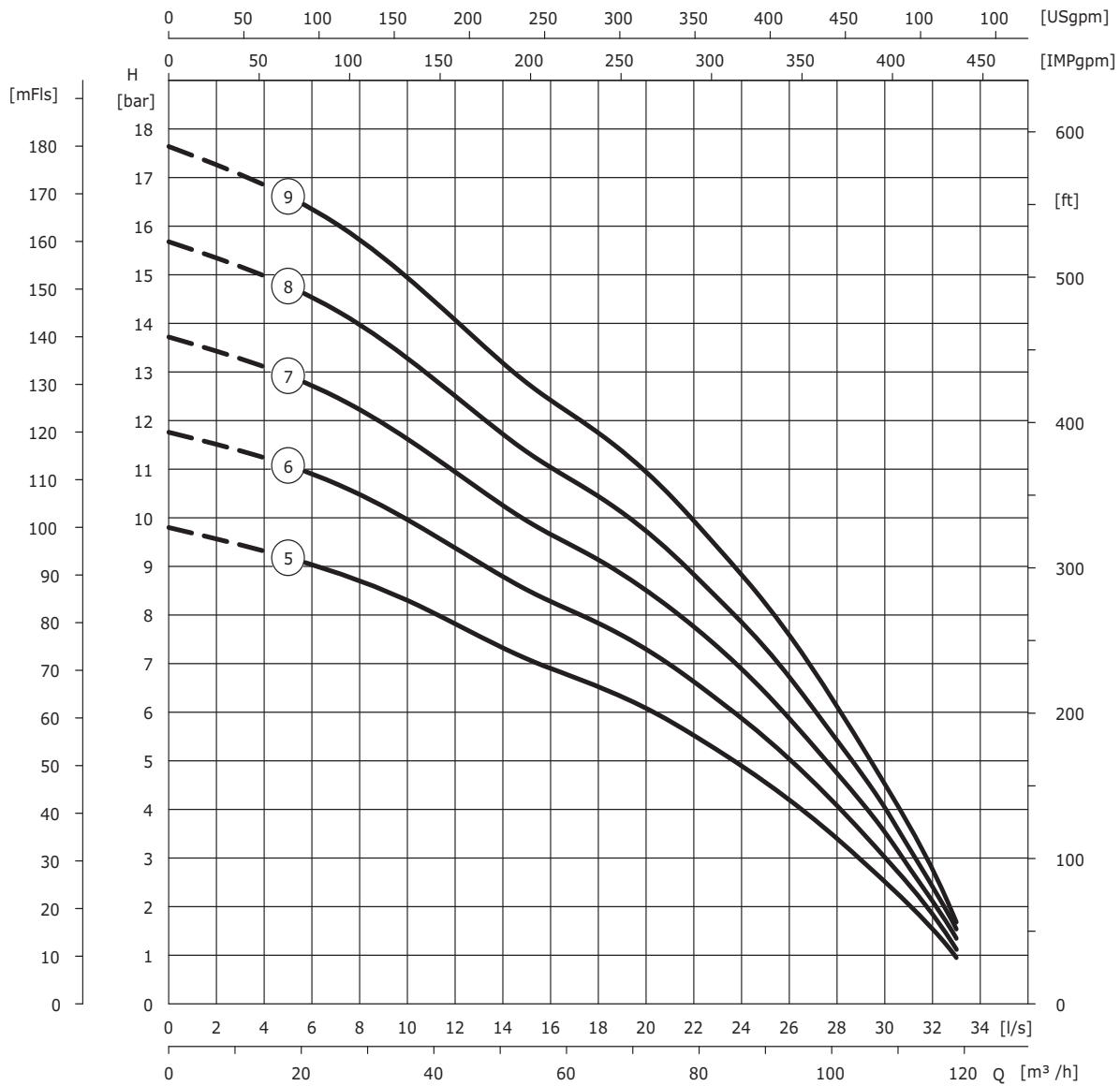
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 08.80...-NB

Wilo- Sub TWI 08.80...-NB



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 08.80...-NB

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.	
				-	P_2	I_N	P_w	I	-
				-	[kW]	[A]	[kW]	[A]	-
TWI 08.80-05-NB	5	A	NU60-2/51	21.00	44.50	17.10	37	V+H	
TWI 08.80-05-NB	5	A	NU501-2/18	18.50	38.50	17	36	V+H	
TWI 08.80-06-NB	6	A	NU60-2/51	21.00	44.50	20.30	43	V+H	
TWI 08.80-06-NB	6	A	NU501-2/22	22.00	44.50	20.80	42.50	V+H	
TWI 08.80-07-NB	7	A	NU60-2/61	25.00	52	24.20	51	V+H	
TWI 08.80-07-NB	7	A	NU501-2/30	30.00	63	24.70	53	V+H	
TWI 08.80-08-NB	8	A	NU601-2/74	30.00	67	28	64	V+H	
TWI 08.80-08-NB	8	A	NU501-2/30	30.00	63	28	59	V+H	
TWI 08.80-08-SB	8	A	NU601-2/74	30.00	67	26.70	63	V+H	
TWI 08.80-08-SB	8	A	NU501-2/30	30.00	63	26.70	56	V+H	
TWI 08.80-09-NB	9	A	NU601-2/74	30.00	67	30	67	V+H	
TWI 08.80-09-NB	9	A	NU501-2/30	30.00	63	30	63	V+H	

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-Sub...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. ϕ	-				
	[mm]	-	[bar]	[mm]		[kg]	-			
TWI 08.80...-NB	Rp 5 I	-	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-

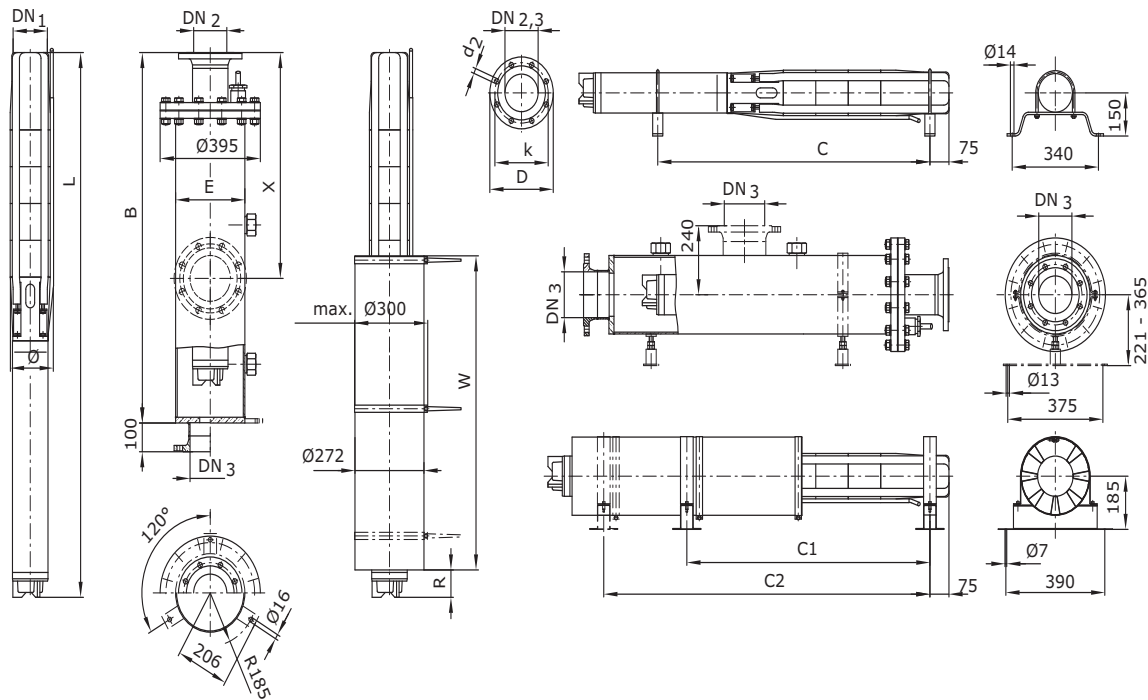
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 08.80...-NB

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 08.80-05-NB	NU60-2/51	2600	1530	273	2061	186	111.0	132
TWI 08.80-05-NB	NU501-2/18	2600	1470	273	1973	186	101.0	132
TWI 08.80-06-NB	NU60-2/51	2600	1640	273	2189	186	114.0	132
TWI 08.80-06-NB	NU501-2/22	2600	1620	273	2166	186	110.0	132
TWI 08.80-07-NB	NU60-2/61	2900	1820	273	2417	186	128.0	140
TWI 08.80-07-NB	NU501-2/30	2900	1820	273	2424	186	128.0	140
TWI 08.80-08-NB	NU601-2/74	¹⁾	2030	273	2697	186	149.0	¹⁾
TWI 08.80-08-NB	NU501-2/30	¹⁾	1960	273	2564	186	132.0	¹⁾
TWI 08.80-08-SB	NU601-2/74	¹⁾	2030	273	2697	186	149.0	¹⁾
TWI 08.80-08-SB	NU501-2/30	¹⁾	1960	273	2564	186	132.0	¹⁾
TWI 08.80-09-NB	NU601-2/74	¹⁾	2160	273	2825	186	153.0	¹⁾
TWI 08.80-09-NB	NU501-2/30	¹⁾	2090	273	2692	186	136.0	¹⁾

Accessories Wilo-Sub TWI 08.80...-NB

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
		horizontal	vertical	W	C ₁	C ₂	C ₃	R
		-		[mm]				
TWI 08.80-05-NB	NU60-2/51	6 043 216	6 043 145	1150	1446	1727	-	65
TWI 08.80-05-NB	NU501-2/18	6 043 242	6 043 191	1000	1502	-	-	127
TWI 08.80-06-NB	NU60-2/51	6 043 216	6 043 145	1150	1574	1855	-	65
TWI 08.80-06-NB	NU501-2/22	6 043 212	6 043 141	1142	1574	1886	-	50
TWI 08.80-07-NB	NU60-2/61	6 043 216	6 043 145	1165	1702	2083	-	150
TWI 08.80-07-NB	NU501-2/30	6 043 212	6 043 141	1172	1702	2144	-	150
TWI 08.80-08-NB	NU601-2/74	6 043 222	6 043 151	1400	2092	2363	-	55
TWI 08.80-08-NB	NU501-2/30	6 043 212	6 043 141	1172	1842	2284	-	150
TWI 08.80-08-SB	NU601-2/74	6 043 222	6 043 151	1400	2092	2363	-	55
TWI 08.80-08-SB	NU501-2/30	6 043 212	6 043 141	1172	1842	2284	-	150
TWI 08.80-09-NB	NU601-2/74	6 043 222	6 043 151	1400	2220	2491	-	55
TWI 08.80-09-NB	NU501-2/30	6 043 212	6 043 141	1180	1970	2412	-	142

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 08.80...-NB	Rp 5 l	-	-	10-40	-	-	-	-	-
	-	DN 100	-	-	10-16	-	8x18	180	220
	-	DN 100	-	-	25-40	-	8x22	190	235
	-	DN 125	DN 125	-	10-16	10	8x18	210	250
	-	DN 125	-	-	25-40	-	8x26	220	270
	-	DN 150	DN 150	-	10-16	10	8x22	240	285
	-	DN 150	-	-	25-40	-	8x26	250	300

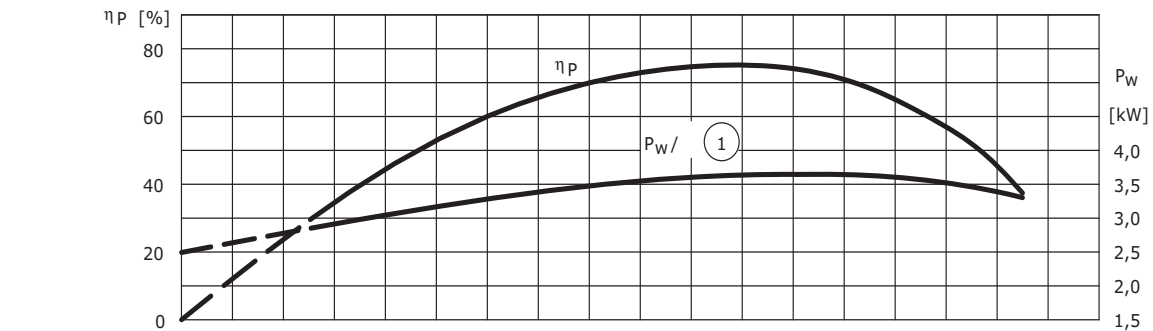
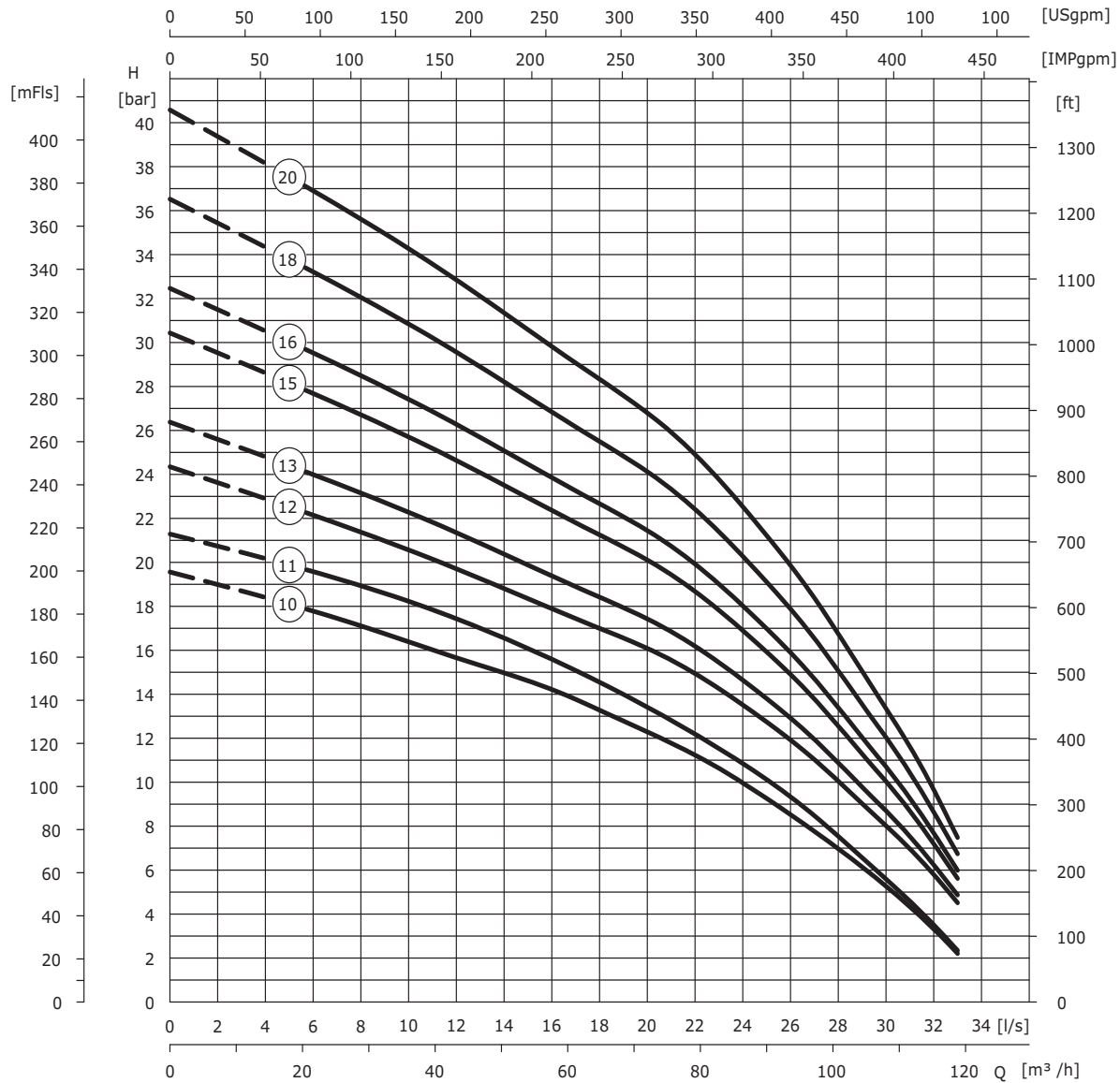
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (V/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 08.80...-NB

Wilo-Sub TWI 08.80...-NB



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 08.80...-NB

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I	-
				[kW]	[A]	[kW]	[A]	-
TWI 08.80-10-NB	10	A	NU611-2/82	34.00	71	34	71	V+H
TWI 08.80-10-NB	10	A	NU501-2/37	37.00	73	35.10	70	V+H
TWI 08.80-11-NB	11	A	NU801-2/55	47.50	95	40	81	V+H
TWI 08.80-11-NB	11	A	NU501-2/45	45.00	90	38.90	80	V+H
TWI 08.80-12-NB	12	A	NU801-2/55	47.50	95	46.70	94	V+H
TWI 08.80-12-NB	12	A	NU701-2/55	55.00	104	47.80	93	V
TWI 08.80-13-NB	13	A	NU801-2/60	53.00	104	50.40	99	V+H
TWI 08.80-13-NB	13	A	NU701-2/55	55.00	104	50.90	97	V
TWI 08.80-15-NB	15	A	NU801-2/68	59.00	113	57.80	111	V
TWI 08.80-15-NB	15	A	NU701-2/75	75.00	144	58.80	118	V
TWI 08.80-16-NB	16	A	NU801-2/75	65.00	129	63	125	V
TWI 08.80-16-NB	16	A	NU701-2/75	75.00	144	63	124	V
TWI 08.80-18-NB	18	A	NU801-2/87	75.00	145	70.40	134	V
TWI 08.80-18-NB	18	A	NU701-2/75	75.00	144	70.40	135	V
TWI 08.80-20-NB	20	A	NU801-2/87	75.00	145	75	145	V
TWI 08.80-20-NB	20	A	NU701-2/75	75.00	145	75	145	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-Sub...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN_1	PN_1						L	max. ϕ
				[mm]	[bar]						[mm]	
TWI 08.80...-NB	Rp 5 l	-	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-		

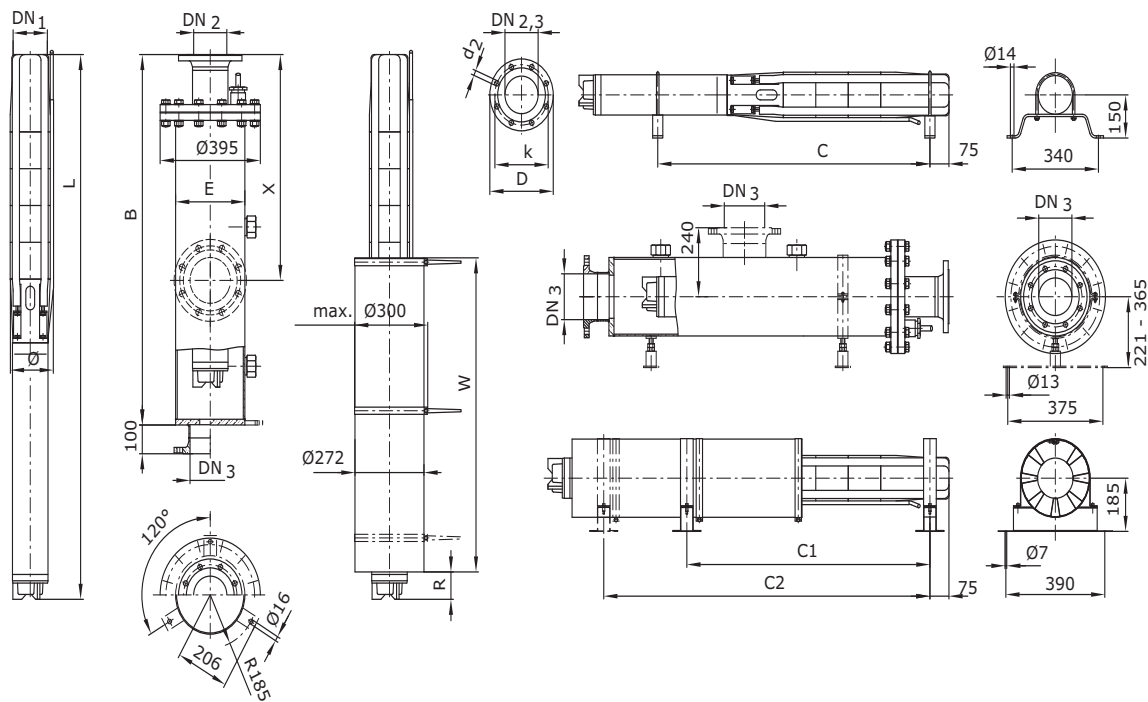
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (V/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 08.80...-NB

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 08.80-10-NB	NU611-2/82	1)	2350	273	3084	186	158.0	1)
TWI 08.80-10-NB	NU501-2/37	1)	2400	273	3205	186	174.0	1)
TWI 08.80-11-NB	NU801-2/55	1)	2400	273	3058	204	206.0	1)
TWI 08.80-11-NB	NU501-2/45	1)	2610	273	3485	186	193.0	1)
TWI 08.80-12-NB	NU801-2/55	1)	2520	273	3184	204	211.0	1)
TWI 08.80-12-NB	NU701-2/55	1)	-	273	3243	204	241.0	1)
TWI 08.80-13-NB	NU801-2/60	1)	2680	273	3363	204	223.0	1)
TWI 08.80-13-NB	NU701-2/55	1)	-	273	3372	204	245.0	1)
TWI 08.80-15-NB	NU801-2/68	1)	-	273	3699	204	244.0	1)
TWI 08.80-15-NB	NU701-2/75	1)	-	273	3819	204	290.0	1)
TWI 08.80-16-NB	NU801-2/75	1)	-	273	3897	204	260.0	1)
TWI 08.80-16-NB	NU701-2/75	1)	-	273	3947	204	293.0	1)
TWI 08.80-18-NB	NU801-2/87	1)	-	273	4274	204	288.0	1)
TWI 08.80-18-NB	NU701-2/75	1)	-	273	4204	204	301.0	1)
TWI 08.80-20-NB	NU801-2/87	1)	-	273	4530	204	295.0	1)
TWI 08.80-20-NB	NU701-2/75	1)	-	273	4460	204	308.0	1)

Accessories Wilo-Sub TWI 08.80...-NB

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
		horizontal	vertical	W	C ₁	C ₂	C ₃	R
		-		[mm]				
TWI 08.80-10-NB	NU611-2/82	6 043 222	6 043 151	1440	2348	2684	-	146
TWI 08.80-10-NB	NU501-2/37	6 043 235	6 043 171	1550	2348	2925	-	157
TWI 08.80-11-NB	NU801-2/55	6 043 251	6 043 162	1300	2217	2808	-	141
TWI 08.80-11-NB	NU501-2/45	6 043 239	6 043 184	1792	2476	3205	-	67
TWI 08.80-12-NB	NU801-2/55	6 043 251	6 043 162	1300	2343	2934	-	141
TWI 08.80-12-NB	NU701-2/55	-	6 043 156	1400	-	-	-	100
TWI 08.80-13-NB	NU801-2/60	6 043 248	6 043 154	1400	2722	3113	-	91
TWI 08.80-13-NB	NU701-2/55	-	6 043 156	1400	-	-	-	100
TWI 08.80-15-NB	NU801-2/68	-	6 043 154	1421	-	-	-	150
TWI 08.80-15-NB	NU701-2/75	-	6 043 180	1550	-	-	-	141
TWI 08.80-16-NB	NU801-2/75	-	6 043 177	1550	-	-	-	91
TWI 08.80-16-NB	NU701-2/75	-	6 043 180	1550	-	-	-	141
TWI 08.80-18-NB	NU801-2/87	-	6 043 186	1711	-	-	-	50
TWI 08.80-18-NB	NU701-2/75	-	6 043 180	1550	-	-	-	141
TWI 08.80-20-NB	NU801-2/87	-	6 043 186	1711	-	-	-	50
TWI 08.80-20-NB	NU701-2/75	-	6 043 180	1550	-	-	-	141

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 08.80...-NB	Rp 5 l	-	-	10-40	-	-	-	-	-
	-	DN 100	-	-	10-16	-	8x18	180	220
	-	DN 100	-	-	25-40	-	8x22	190	235
	-	DN 125	DN 125	-	10-16	10	8x18	210	250
	-	DN 125	-	-	25-40	-	8x26	220	270
	-	DN 150	DN 150	-	10-16	10	8x22	240	285
	-	DN 150	-	-	25-40	-	8x26	250	300

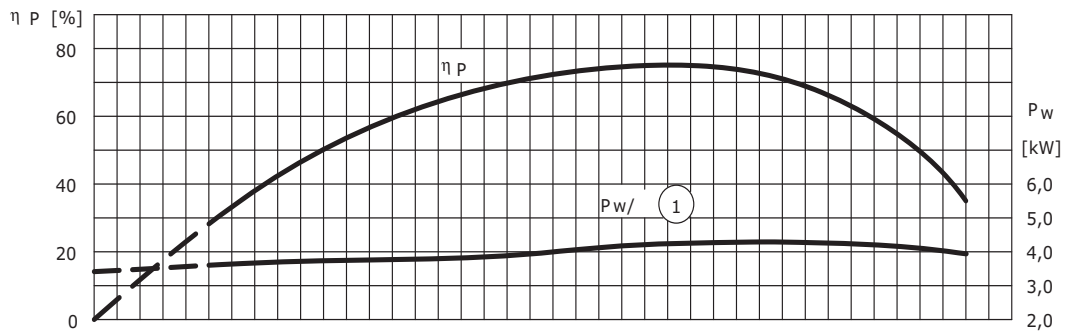
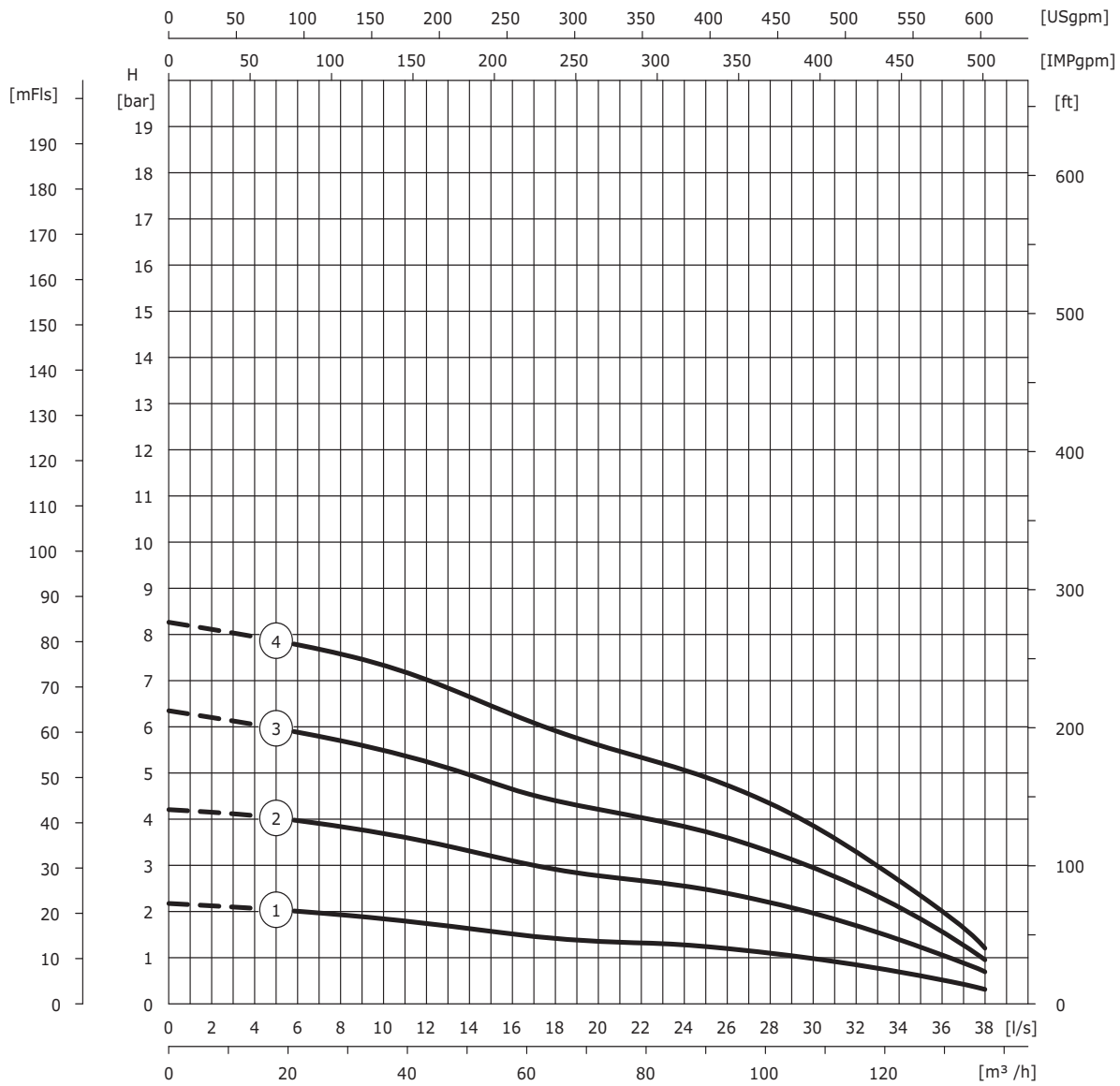
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 08.90...-NB

Wilo-Sub TWI 08.90...-NB



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 08.90...-NB

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _W	I	
				[kW]	[A]	[kW]	[A]	
TWI 08.90-01-NB	1	A	NU60-2/23	5.50	12.20	4.80	11.10	V+H
TWI 08.90-01-NB	1	A	NU501-2/5	5.50	12.30	4.80	11.20	V+H
TWI 08.90-02-NB	2	A	NU60-2/32	12.50	27.50	9.30	21.50	V+H
TWI 08.90-02-NB	2	A	NU501-2/9	9.30	21	9	20.50	V+H
TWI 08.90-02-SB	2	A	NU60-2/24	9.00	19.80	7.30	16.80	V+H
TWI 08.90-02-SB	2	A	NU501-2/7	7.50	16	7.30	15.60	V+H
TWI 08.90-03-NB	3	A	NU60-2/40	15.50	32.50	13.80	29.50	V+H
TWI 08.90-03-NB	3	A	NU501-2/15	15.00	31.50	13.40	29	V+H
TWI 08.90-03-SB	3	A	NU60-2/32	12.50	27.50	11.50	25.50	V+H
TWI 08.90-03-SB	3	A	NU501-2/15	15.00	31.50	11.50	25.50	V+H
TWI 08.90-04-NB	4	A	NU60-2/51	21.00	44.50	17.60	37.50	V+H
TWI 08.90-04-NB	4	A	NU501-2/18	18.50	38.50	17.60	37	V+H
TWI 08.90-04-SB	4	A	NU60-2/51	21.00	44.50	15.90	35	V+H
TWI 08.90-04-SB	4	A	NU501-2/18	18.50	38.50	15.90	34	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-Sub...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	–	PN ₁	L	max. ø	–	–	–	–	–
	[mm]	–	[bar]	[mm]		[kg]	–	–	–	–
TWI 08.90...-NB	Rp 5 l	–	10-40	5)	5)	5)	5)	1	–	–

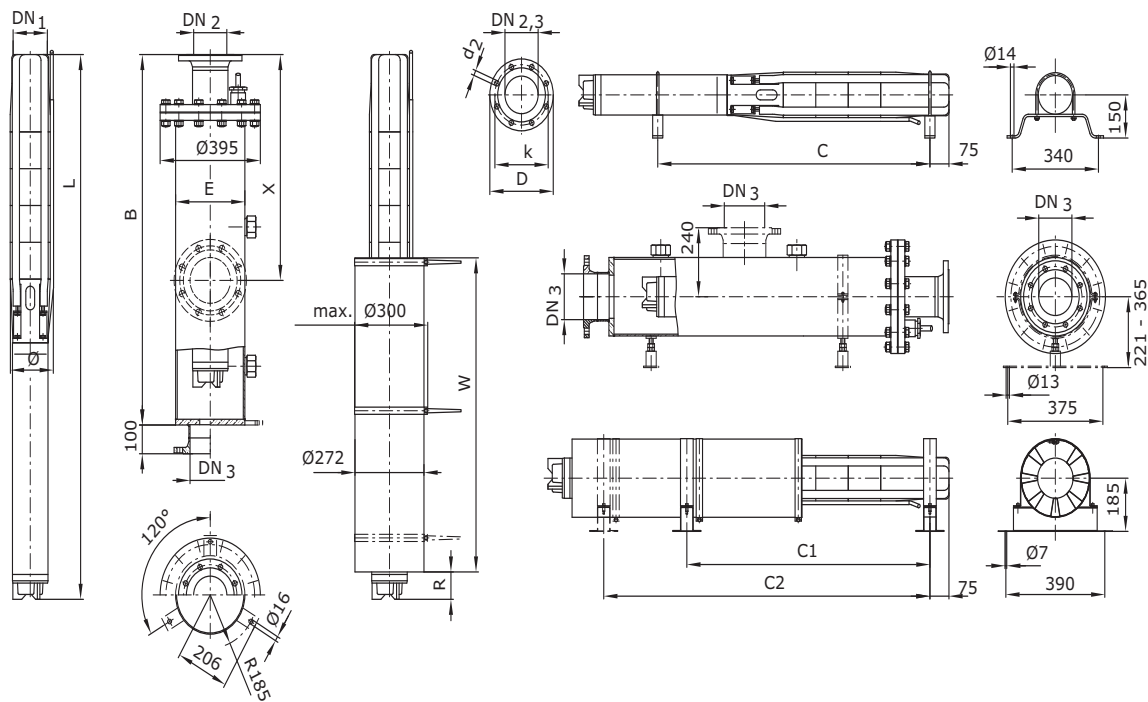
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Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 08.90...-NB

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 08.90-01-NB	NU60-2/23	1700	870	273	1288	186	70.0	108
TWI 08.90-01-NB	NU501-2/5	1700	840	273	1233	186	64.0	108
TWI 08.90-02-NB	NU60-2/32	2000	1040	273	1496	186	82.0	116
TWI 08.90-02-NB	NU501-2/9	2000	1000	273	1425	186	74.0	116
TWI 08.90-02-SB	NU60-2/24	2000	1000	273	1416	186	74.0	116
TWI 08.90-02-SB	NU501-2/7	2000	980	273	1392	186	72.0	116
TWI 08.90-03-NB	NU60-2/40	2300	1210	273	1704	186	93.0	124
TWI 08.90-03-NB	NU501-2/15	2000	1180	273	1650	186	87.0	116
TWI 08.90-03-SB	NU60-2/32	2000	1170	273	1624	186	85.0	116
TWI 08.90-03-SB	NU501-2/15	2000	1180	273	1650	186	87.0	116
TWI 08.90-04-NB	NU60-2/51	2300	1390	273	1933	186	107.0	124
TWI 08.90-04-NB	NU501-2/18	2300	1340	273	1845	186	97.0	124
TWI 08.90-04-SB	NU60-2/51	2300	1390	273	1933	186	107.0	124
TWI 08.90-04-SB	NU501-2/18	2300	1340	273	1845	186	97.0	124

Accessories Wilo-Sub TWI 08.90...-NB

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
		horizontal	vertical	W	C ₁	C ₂	C ₃	R
		-		[mm]				
TWI 08.90-01-NB	NU60-2/23	6 043 203	6 043 128	835	783	954	-	120
TWI 08.90-01-NB	NU501-2/5	6 043 199	6 043 124	835	783	953	-	65
TWI 08.90-02-NB	NU60-2/32	6 043 207	6 043 132	985	1061	1162	-	50
TWI 08.90-02-NB	NU501-2/9	6 043 199	6 043 124	835	911	1145	-	129
TWI 08.90-02-SB	NU60-2/24	6 043 203	6 043 128	835	911	1082	-	120
TWI 08.90-02-SB	NU501-2/7	6 043 199	6 043 124	835	878	1112	-	129
TWI 08.90-03-NB	NU60-2/40	6 043 246	6 043 195	1000	1239	-	-	115
TWI 08.90-03-NB	NU501-2/15	6 043 242	6 043 191	1000	1212	-	-	61
TWI 08.90-03-SB	NU60-2/32	6 043 207	6 043 132	985	1189	1290	-	50
TWI 08.90-03-SB	NU501-2/15	6 043 242	6 043 191	1000	1212	-	-	61
TWI 08.90-04-NB	NU60-2/51	6 043 216	6 043 145	1150	1318	1599	-	65
TWI 08.90-04-NB	NU501-2/18	6 043 242	6 043 191	1000	1374	-	-	127
TWI 08.90-04-SB	NU60-2/51	6 043 216	6 043 145	1150	1318	1599	-	65
TWI 08.90-04-SB	NU501-2/18	6 043 242	6 043 191	1000	1374	-	-	127

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 08.90...-NB	Rp 5 l	-	-	10-40	-	-	-	-	-
	-	DN 100	-	-	10-16	-	8x18	180	220
	-	DN 100	-	-	25-40	-	8x22	190	235
	-	DN 125	DN 125	-	10-16	10	8x18	210	250
	-	DN 125	-	-	25-40	-	8x26	220	270
	-	DN 150	DN 150	-	10-16	10	8x22	240	285
	-	DN 150	-	-	25-40	-	8x26	250	300

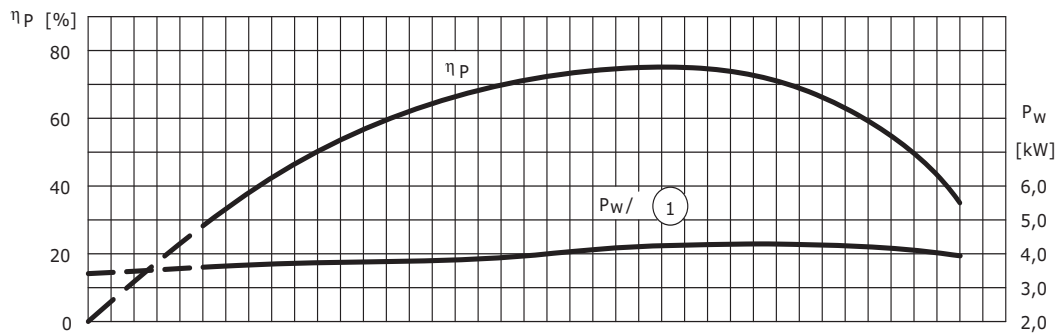
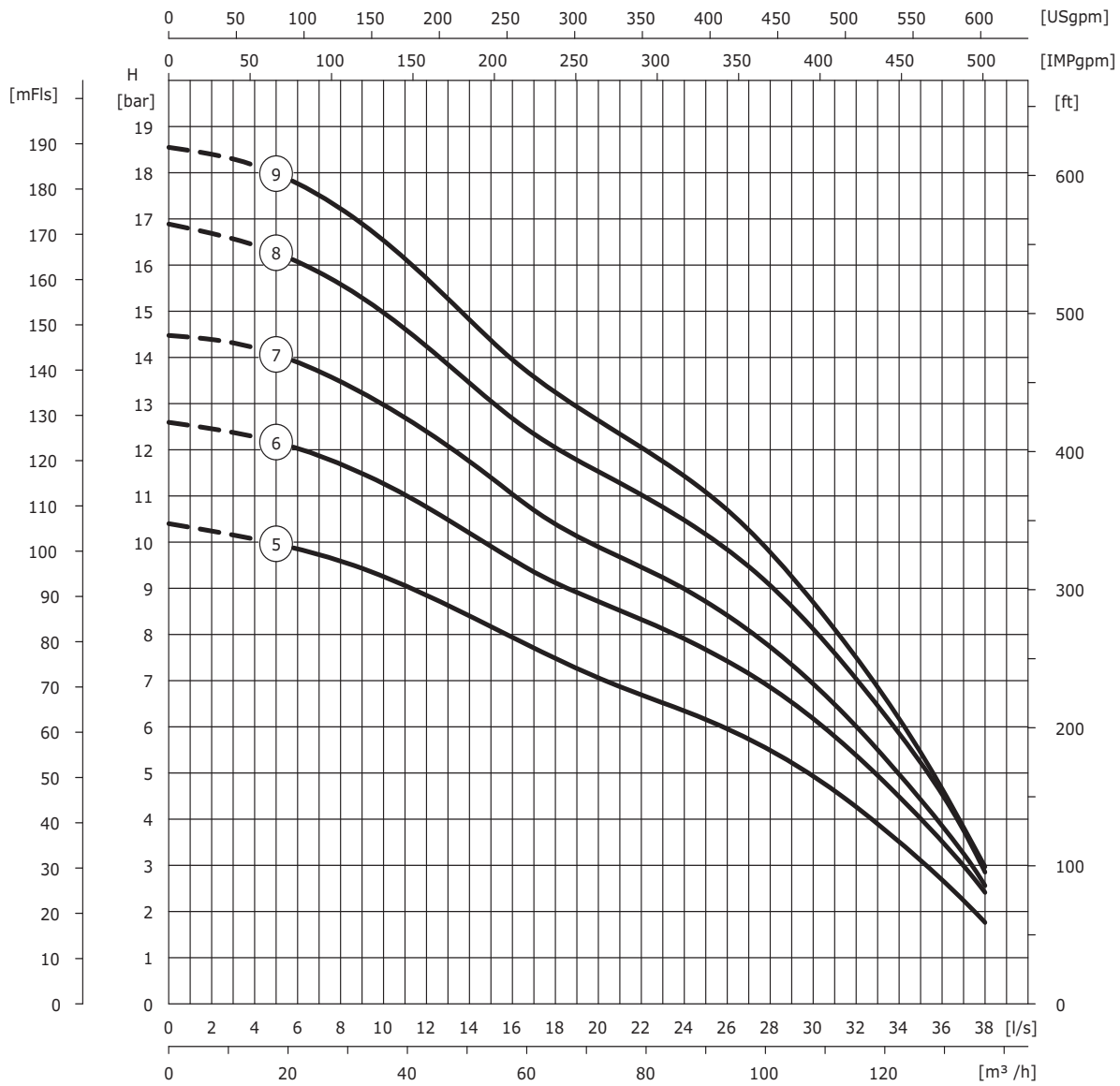
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 08.90...-NB

Wilo-Sub TWI 08.90...-NB



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 08.90...-NB

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	-
				[kW]	[A]	[kW]	[A]	-
TWI 08.90-05-NB	5	A	NU60-2/61	25.00	52	22	46.50	V+H
TWI 08.90-05-NB	5	A	NU501-2/22	22.00	44.50	22	44.50	V+H
TWI 08.90-05-SB	5	A	NU60-2/51	21.00	44.50	18.60	39.50	V+H
TWI 08.90-05-SB	5	A	NU501-2/22	22.00	44.50	18.60	39	V+H
TWI 08.90-06-NB	6	A	NU601-2/74	30.00	67	26.70	63	V+H
TWI 08.90-06-NB	6	A	NU501-2/30	30.00	63	27.50	58	V+H
TWI 08.90-07-NB	7	A	NU611-2/82	34.00	71	30.40	65	V+H
TWI 08.90-07-NB	7	A	NU501-2/37	34.00	71	31.40	64	V+H
TWI 08.90-08-NB	8	A	NU611-2/90	37.00	77	34.70	73	V
TWI 08.90-08-NB	8	A	NU501-2/37	37.00	71	36	71	V+H
TWI 08.90-09-NB	9	A	NU801-2/55	47.50	95	39.20	80	V+H
TWI 08.90-09-NB	9	A	NU501-2/45	45.00	90	39.20	81	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-Sub...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN_1	-	PN_1	L	max. ϕ	-				
	[mm]	-	[bar]	[mm]		[kg]	-			
TWI 08.90...-NB	Rp 5 l	-	10-40	5)	5)	5)	5)	1	-	-

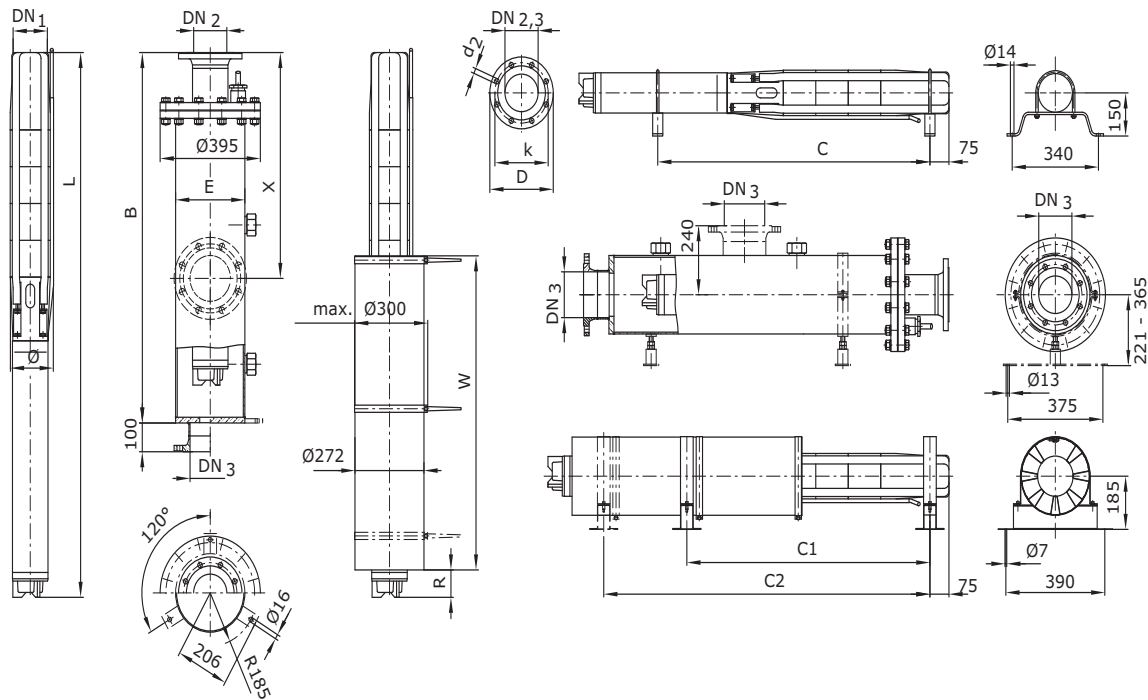
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Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 08.90...-NB

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 08.90-05-NB	NU60-2/61	2600	1570	273	2161	186	121.0	132
TWI 08.90-05-NB	NU501-2/22	2600	1500	273	2038	186	107.0	132
TWI 08.90-05-SB	NU60-2/51	2600	1520	273	2061	186	111.0	132
TWI 08.90-05-SB	NU501-2/22	2600	1500	273	2038	186	107.0	132
TWI 08.90-06-NB	NU601-2/74	2900	1760	273	2429	186	142.0	140
TWI 08.90-06-NB	NU501-2/30	2900	1700	273	2296	186	125.0	140
TWI 08.90-07-NB	NU611-2/82	¹⁾	1690	273	2699	186	148.0	¹⁾
TWI 08.90-07-NB	NU501-2/37	¹⁾	2010	273	2820	186	164.0	¹⁾
TWI 08.90-08-NB	NU611-2/90	¹⁾	-	273	2908	186	156.0	¹⁾
TWI 08.90-08-NB	NU501-2/37	¹⁾	2140	273	2949	186	167.0	¹⁾
TWI 08.90-09-NB	NU801-2/55	¹⁾	2140	273	2800	204	199.0	¹⁾
TWI 08.90-09-NB	NU501-2/45	¹⁾	2350	273	3229	186	186.0	¹⁾

Accessories Wilo-Sub TWI 08.90...-NB

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
		horizontal	vertical	W	C ₁	C ₂	C ₃	R
		-		[mm]				
TWI 08.90-05-NB	NU60-2/61	6 043 216	6 043 145	1165	1446	1827	-	150
TWI 08.90-05-NB	NU501-2/22	6 043 242	6 043 191	1000	1567	-	-	127
TWI 08.90-05-SB	NU60-2/51	6 043 216	6 043 145	1150	1446	1727	-	65
TWI 08.90-05-SB	NU501-2/22	6 043 242	6 043 191	1000	1567	-	-	127
TWI 08.90-06-NB	NU601-2/74	6 043 222	6 043 151	1400	1824	2095	-	55
TWI 08.90-06-NB	NU501-2/30	6 043 212	6 043 141	1172	1574	2016	-	150
TWI 08.90-07-NB	NU611-2/82	6 043 236	6 043 174	1536	1963	2299	-	50
TWI 08.90-07-NB	NU501-2/37	6 043 235	6 043 171	1550	1963	2540	-	157
TWI 08.90-08-NB	NU611-2/90	-	6 043 174	1550	-	-	-	116
TWI 08.90-08-NB	NU501-2/37	6 043 235	6 043 171	1550	2092	2669	-	157
TWI 08.90-09-NB	NU801-2/55	6 043 251	6 043 162	1300	1959	2550	-	141
TWI 08.90-09-NB	NU501-2/45	6 043 239	6 043 184	1792	2220	2949	-	67

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 08.90...-NB	Rp 5 l	-	-	10-40	-	-	-	-	-
	-	DN 100	-	-	10-16	-	8x18	180	220
	-	DN 100	-	-	25-40	-	8x22	190	235
	-	DN 125	DN 125	-	10-16	10	8x18	210	250
	-	DN 125	-	-	25-40	-	8x26	220	270
	-	DN 150	DN 150	-	10-16	10	8x22	240	285
	-	DN 150	-	-	25-40	-	8x26	250	300

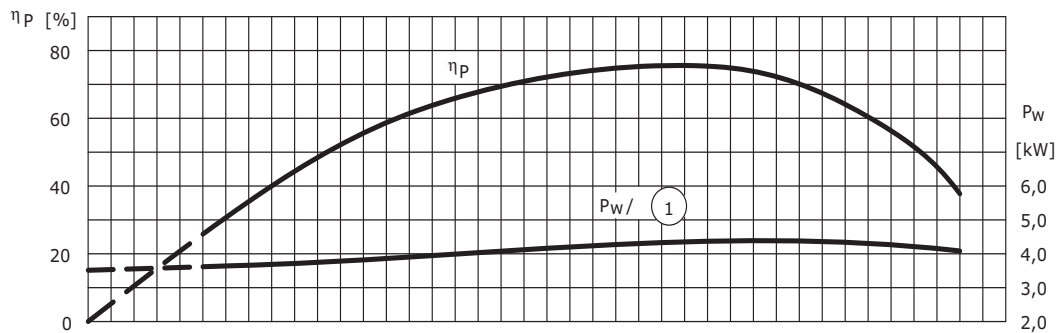
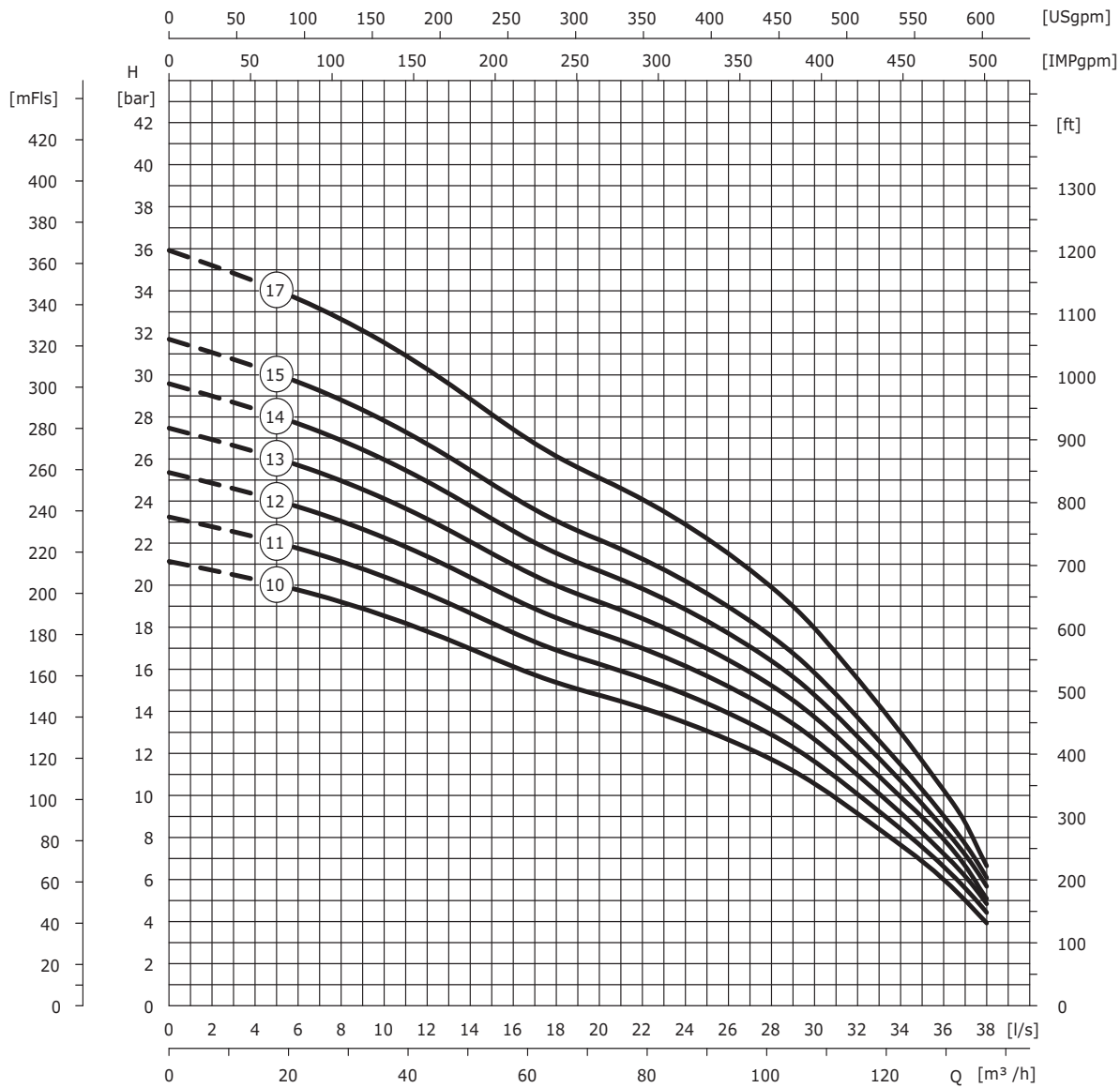
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 08.90...-NB

Wilo-Sub TWI 08.90...-NB



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 08.90...-NB

Technical data

Wilo-Sub...	No.	Availa- bility*	Motor type	Nominal power	Nominal cur- rent	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	-
				[kW]	[A]	[kW]	[A]	-
TWI 08.90-10-NB	10	A	NU801-2/55	47.50	95	47.50	95	V+H
TWI 08.90-10-NB	10	A	NU701-2/55	55.00	104	47.70	93	V
TWI 08.90-11-NB	11	A	NU801-2/60	53.00	104	51.50	101	V+H
TWI 08.90-11-NB	11	A	NU701-2/55	55.00	104	50.80	97	V
TWI 08.90-12-NB	12	A	NU801-2/68	59.00	113	56.70	109	V
TWI 08.90-12-NB	12	A	NU701-2/55	55.00	104	55	104	V
TWI 08.90-13-NB	13	A	NU801-2/75	65.00	129	60.90	121	V
TWI 08.90-13-NB	13	A	NU701-2/75	75.00	145	62	122	V
TWI 08.90-14-NB	14	A	NU801-2/87	75.00	145	68.30	133	V
TWI 08.90-14-NB	14	A	NU701-2/75	75.00	145	68.30	132	V
TWI 08.90-15-NB	15	A	NU801-2/87	75.00	145	73.50	142	V
TWI 08.90-15-NB	15	A	NU701-2/75	75.00	145	73.50	141	V
TWI 08.90-17-NB	17	A	NU811-2/90	90.00	168	76.70	151	V
TWI 08.90-17-NB	17	A	NU701-2/93	93.00	186	80.90	167	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-Sub...	Connec- tion	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN_1	-	PN_1	L	max. ϕ	-	-	-	-	
	[mm]	-	[bar]	[mm]		[kg]	-	-	-	
TWI 08.90...-NB	Rp 5 l	-	10-40	5)	5)	5)	5)	1	-	-

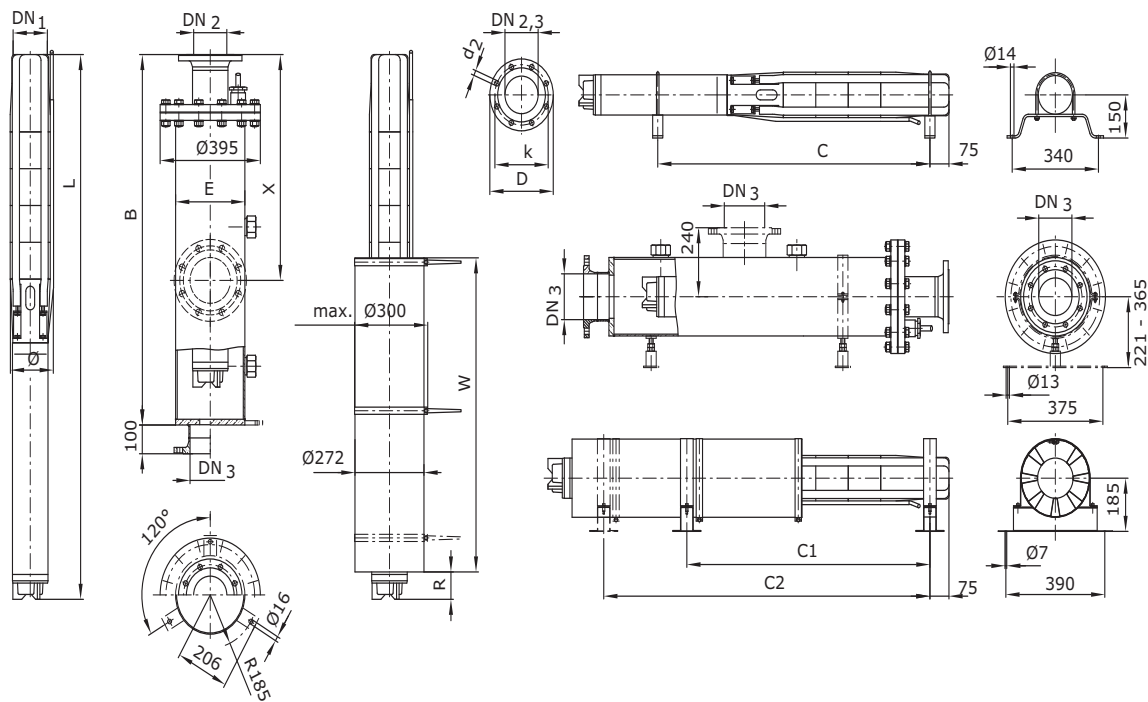
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Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 08.90...-NB

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 08.90-10-NB	NU801-2/55	1)	2270	273	2928	204	203.0	1)
TWI 08.90-10-NB	NU701-2/55	1)	-	273	2987	204	233.0	1)
TWI 08.90-11-NB	NU801-2/60	1)	2430	273	3106	204	214.0	1)
TWI 08.90-11-NB	NU701-2/55	1)	-	273	3115	204	236.0	1)
TWI 08.90-12-NB	NU801-2/68	1)	-	273	3314	204	233.0	1)
TWI 08.90-12-NB	NU701-2/55	1)	-	273	3243	204	241.0	1)
TWI 08.90-13-NB	NU801-2/75	1)	-	273	3513	204	250.0	1)
TWI 08.90-13-NB	NU701-2/75	1)	-	273	3563	204	283.0	1)
TWI 08.90-14-NB	NU801-2/87	1)	-	273	3761	204	273.0	1)
TWI 08.90-14-NB	NU701-2/75	1)	-	273	3691	204	286.0	1)
TWI 08.90-15-NB	NU801-2/87	1)	-	273	3889	204	277.0	1)
TWI 08.90-15-NB	NU701-2/75	1)	-	273	3819	204	290.0	1)
TWI 08.90-17-NB	NU811-2/90	1)	-	273	4250	204	285.0	1)
TWI 08.90-17-NB	NU701-2/93	1)	3470	273	4427	204	375.0	1)

Accessories Wilo-Sub TWI 08.90...-NB

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
		horizontal	vertical	W	C ₁	C ₂	C ₃	R
		-		[mm]				
TWI 08.90-10-NB	NU801-2/55	6 043 251	6 043 162	1300	2087	2678	-	141
TWI 08.90-10-NB	NU701-2/55	-	6 043 156	1400	-	-	-	100
TWI 08.90-11-NB	NU801-2/60	6 043 248	6 043 154	1400	2465	2856	-	91
TWI 08.90-11-NB	NU701-2/55	-	6 043 156	1400	-	-	-	100
TWI 08.90-12-NB	NU801-2/68	-	6 043 154	1421	-	-	-	150
TWI 08.90-12-NB	NU701-2/55	-	6 043 156	1400	-	-	-	100
TWI 08.90-13-NB	NU801-2/75	-	6 043 177	1550	-	-	-	91
TWI 08.90-13-NB	NU701-2/75	-	6 043 180	1550	-	-	-	141
TWI 08.90-14-NB	NU801-2/87	-	6 043 186	1711	-	-	-	50
TWI 08.90-14-NB	NU701-2/75	-	6 043 180	1550	-	-	-	141
TWI 08.90-15-NB	NU801-2/87	-	6 043 186	1711	-	-	-	50
TWI 08.90-15-NB	NU701-2/75	-	6 043 180	1550	-	-	-	141
TWI 08.90-17-NB	NU811-2/90	-	6 043 186	1800	-	-	-	66
TWI 08.90-17-NB	NU701-2/93	6 043 253	6 043 188	1850	3234	4027	-	193

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 08.90...-NB	Rp 5 l	-	-	10-40	-	-	-	-	-
	-	DN 100	-	-	10-16	-	8x18	180	220
	-	DN 100	-	-	25-40	-	8x22	190	235
	-	DN 125	DN 125	-	10-16	10	8x18	210	250
	-	DN 125	-	-	25-40	-	8x26	220	270
	-	DN 150	DN 150	-	10-16	10	8x22	240	285
	-	DN 150	-	-	25-40	-	8x26	250	300

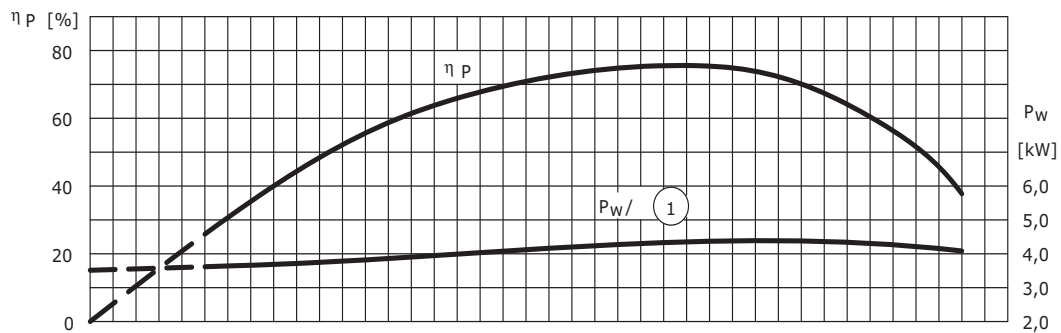
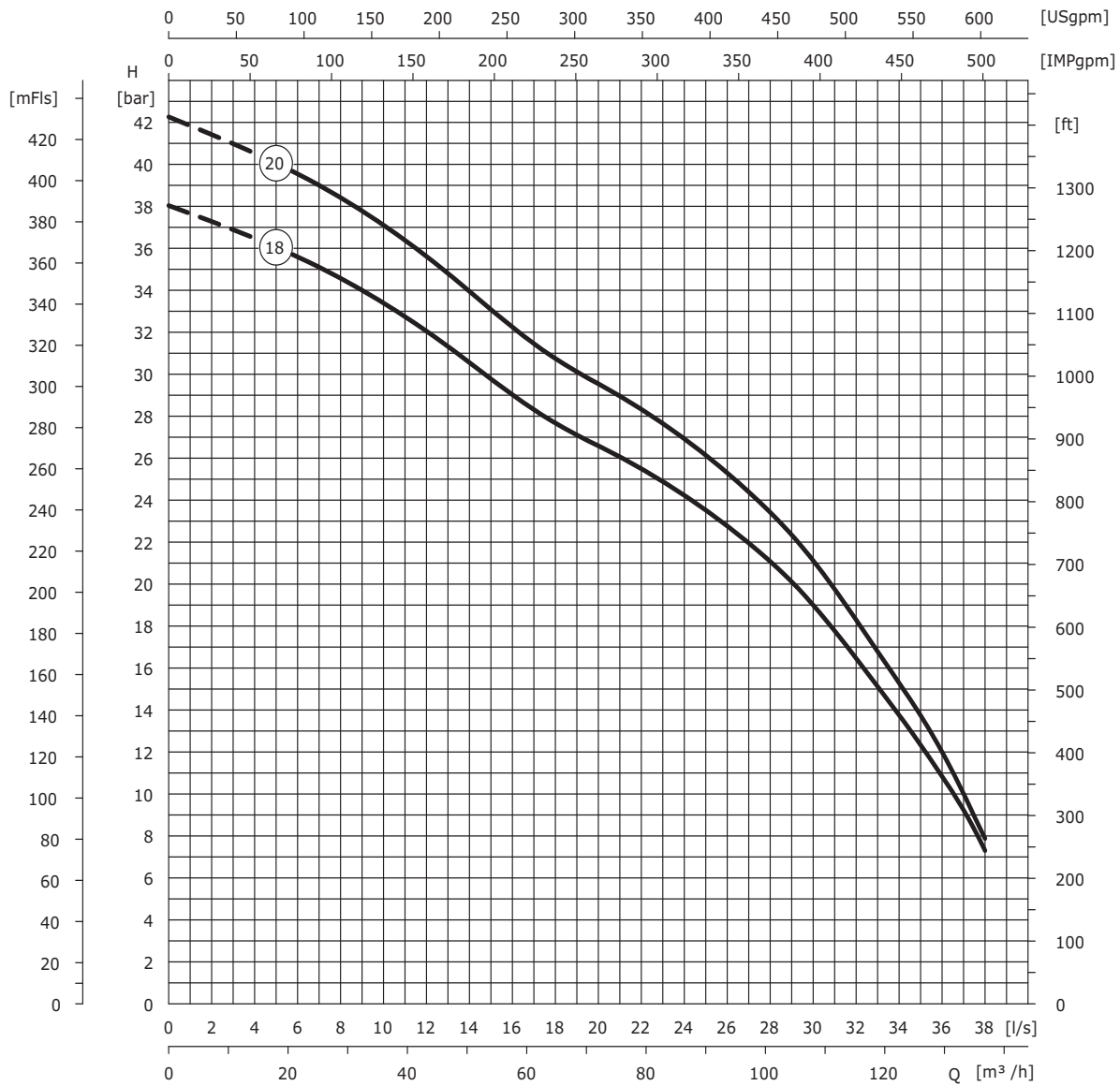
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Pump curves Wilo-Sub TWI 08.90...-NB

Wilo-Sub TWI 08.90...-NB



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-Sub TWI 08.90...-NB

Technical data

Wilo-Sub...	No.	Availability*	Motor type	Nominal power	Nominal current	Shaft power	Current for power requirement of the shaft	Inst.
				-	P_2	I_N	P_w	
				[kW]	[A]	[kW]	[A]	-
TWI 08.90-18-NB	18	A	NU811-2/90	90.00	168	81	157	V
TWI 08.90-18-NB	18	A	NU701-2/93	93.00	186	86.10	175	V+H
TWI 08.90-20-NB	20	A	NU811-2/90	90.00	168	88.50	166	V
TWI 08.90-20-NB	20	A	NU701-2/93	93.00	186	94.50	189	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-Sub...	Connection	Thread internal/external	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
				L	max. ϕ					
				[mm]	[mm]	[kg]				
TWI 08.90...-NB	Rp 5 l	-	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-

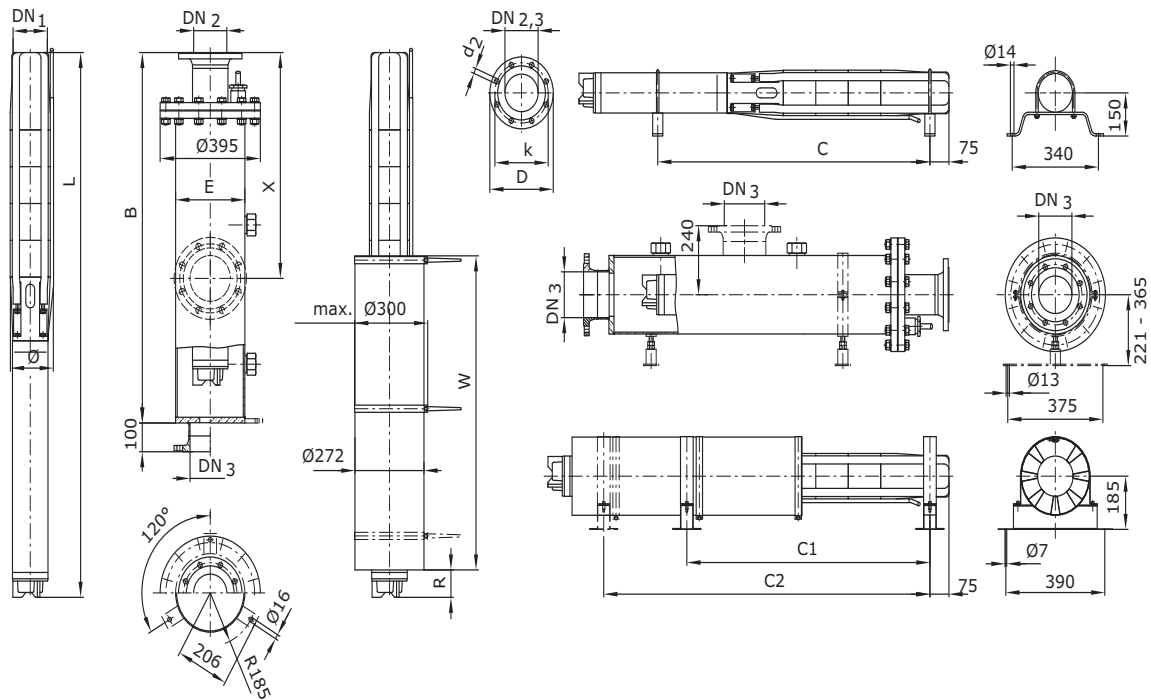
Pump with non-return valve, ¹⁾ On request, ²⁾ -, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply

Secondary hot water supply

Dimensions, weights Wilo-Sub TWI 08.90...-NB

Dimension drawing



Dimensions, weights

Wilo-Sub...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
TWI 08.90-18-NB	NU811-2/90	1)	-	273	4379	204	289.0	1)
TWI 08.90-18-NB	NU701-2/93	1)	3590	273	4556	204	379.0	1)
TWI 08.90-20-NB	NU811-2/90	1)	-	273	4635	204	296.0	1)
TWI 08.90-20-NB	NU701-2/93	1)	3850	273	4812	204	386.0	1)

Accessories Wilo-Sub TWI 08.90...-NB

Cooling jacket pipes

Wilo-Sub...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
	–	horizontal	vertical	W	C ₁	C ₂	C ₃	R
	–			[mm]				
TWI 08.90-18-NB	NU811-2/90	–	6 043 186	1800	–	–	–	66
TWI 08.90-18-NB	NU701-2/93	6 043 253	6 043 188	1850	3363	4156	–	193
TWI 08.90-20-NB	NU811-2/90	–	6 043 186	1800	–	–	–	66
TWI 08.90-20-NB	NU701-2/93	6 043 253	6 043 188	1850	3619	4412	–	193

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 08.90...-NB	Rp 5 l	–	–	10-40	–	–	–	–	–
	–	DN 100	–	–	10-16	–	8x18	180	220
	–	DN 100	–	–	25-40	–	8x22	190	235
	–	DN 125	DN 125	–	10-16	10	8x18	210	250
	–	DN 125	–	–	25-40	–	8x26	220	270
	–	DN 150	DN 150	–	10-16	10	8x22	240	285
	–	DN 150	–	–	25-40	–	8x26	250	300

Pump with non-return valve, ¹⁾ On request, ²⁾ –, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics

Building Services/Domestic Water Supply



Irrigation and drainage

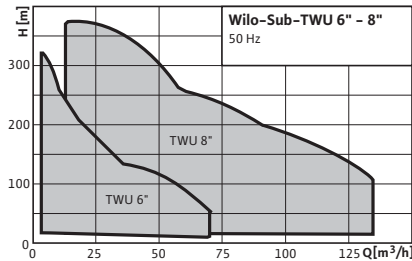
Single pumps	Wilо-Sub TWU 6...-B, TWU 8...-B	166
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Building Services/Domestic Water Supply

Irrigation and drainage

Series overview Wilo-Sub TWU 6...-B, 8...-B

Series: Wilo-Sub TWU 6...-B, 8...-B



> Submersible pump for boreholes and cisterns

- for domestic water supply, sprinkling and irrigation
- for industrial pumping of cooling water
- for lowering the ground water level
- for pumping water without long-fibre and abrasive constituents



Series overview Wilo-Sub TWU 6...-B, 8...-B

Series: Wilo-Sub TWU 6...-B, 8...-B

> Product advantages

> Water pumping from great depths possible

- Vertical or horizontal installation possible
- Impellers made of bronze
- Integrated non-return device

> Additional information:

Page

- Equipment/function 162
- Version overview 163
- Technical data 165
- Series description 166
- Pump curves 167
- Motor data 169
- Dimensions, weights..... 171

Building Services/Domestic Water Supply

Irrigation and drainage

Equipment/function Wilo-TWU 6...-B, 8...-B	
	Wilo-Sub...
	TWU 6...-B, 8...-B
Hydraulics	
Totally immersed, multistage submersible motor pump	•
Integrated non-return device	•
Radial impellers	•
Semi-axial impellers	•
NEMA coupling	•
Motor	
EM (single-phase AC motor)	–
EMSC (AC motor with starting capacitor)	–
2-wire plug & run motor (single-phase AC motor)	–
DM (three-phase motor, direct starting)	•
Integrated lightning protection	–
Rewindable motors	–
Encapsulated motor	•
Equipment	
Dry-running protection	–
Cable length [m] depending on type	2.5/4/8
Cable cross-section [mm ²]	4 x 1.5 to 4 x 8.4
Options	
Star/delta motor version	optional
Motors in stainless steel 316-version	–
Motors with PT 100	optional
Scope of delivery	
Hydraulics completely installed with the motor	•
Switchbox with capacitor	–
Corrosion-free safety rope	–
Installation parts	–
Cable binders	–
Wilo-FluidControl (for automatic operation)	–
Wilo pressure switching with diaphragm pressure vessel	–
Installation and operating instructions	•

• = standard version, – = not available

Version overview Wilo-TWU 6...-B, 8...-B

		Wilo-Sub...	
		TWU 6...-B	TWU 8...-B
Hydraulics material			
Impellers	Cast iron (EN-GJL200)	–	–
	Plastic	–	–
	Bronze	•	•
	Stainless steel 1.4301 (AISI 304)	–	–
	Stainless steel 1.4404 (AISI 316L)	–	–
Stage housing	Cast iron (EN-GJL200)	•	•
	Stainless steel 1.4301 (AISI 304)	–	–
	Stainless steel 1.4404 (AISI 316L)	–	–
	Plastic	•	–
	Bronze	–	–
Suction housing	Stainless steel 1.4301 (AISI 304)	• (EN-GJL200)	• (EN-GJL200)
	Brass:	–	–
Non-return valve	Bronze	•	•
	Plastic	–	–
	Stainless steel 1.4301 (AISI 304)	•	–
	Stainless steel 1.4404 (AISI 316L)	–	–
Shaft	Stainless steel AISI 430 F	–	–
	Stainless steel 1.4301 (AISI 304)	–	–
	Steel 1.4006 (AISI 410)	•	•
Pump housing	Stainless steel 1.4301 (AISI 304)	–	–
Motor material			
Motor housing	Stainless steel 1.4301 (AISI 304)	•	•
	Stainless steel 1.4571 (AISI 316 Ti)	optional	optional
Shaft end	Stainless steel 1.4305 (AISI 303)	•	•
	Stainless steel 1.4460 (AISI 329)	optional	optional

Building Services/Domestic Water Supply

Irrigation and drainage

Version overview Wilo-TWU 6...-B, 8...-B

	Wilo-Sub...	
	TWU 6...-B	TWU 8...-B
Motor versions		
3" direct starting, rewindable	–	–
4" encapsulated, direct starting, cast stator	• ¹⁾	–
6" encapsulated, direct starting, cast stator	•	• ²⁾
8" encapsulated, direct starting, cast stator	–	•
6" encapsulated, Star/delta, cast stator	optional	optional
8" encapsulated, Star/delta, cast stator	–	optional
6" rewindable, direct starting	optional	optional
8" rewindable, direct starting	–	optional
1~230 V 50 Hz EM	–	–
1~230 V-50 Hz EMSC	–	–
1~230 V-50 Hz 2-wire (plug & run)	–	–
1~230 V-60 Hz	–	–
1~230 V-60 Hz 2-wire (plug & run)	–	–
3~380-415 V-50 Hz	•	•
3~500 V-50 Hz	optional	optional
3~230 V-50 Hz	optional	optional
3~230 V-60 Hz	optional	optional
3~380 V-60 Hz	optional	optional
3~460 V-60 Hz	optional	optional
PT 100	optional	optional

• = standard version, – = not available

Please note that certain combinations of options may not be possible under certain circumstances.

¹⁾ to 5.5 kW

²⁾ to 45 kW

Technical data Wilo-Sub TWU 6...-B, 8...-B

	Wilo-Sub...	
	TWU 6...-B	TWU 8...-B
Approved fluids		
Pure water without settling sediment		•
Rainwater		-
Performance (with 50 Hz operation)		
Flow volume maximum [m ³ /h]	72	130
Maximum delivery head [m]	350	350
Fluid temperature ¹⁾ [°C]	+3 to +30	
Immersion depth maximum [m]	250	350
Sand content maximum [g/m ³]	50	
²⁾ Minimum water speed [cm/s]	16	
Starts per hour, maximum	20	
Voltage tolerance, maximum [%]	-10 to +10	
Motor		
Electrical connection 1~ [V/Hz]	-	
Electrical connection 3~ [V/Hz]	400/50	
Insulation class ³⁾	B/F	
Protection class	IP 68	
Connections		
Discharge pipe line [Rp]	2/2 ¹ / ₂ /3	3/4/5

• = standard version, - = not available

¹⁾ Depending on the motor size. Other application limits on request

²⁾ For 4" motors water speed 8 cm/s.

³⁾ For 4" motors = B.

Building Services/Domestic Water Supply

Irrigation and drainage

Series description Wilo-Sub TWU 6...-B, TWU 8...-B



Wilo-Sub TWU 6...-B, 8...-B

Submersible pump

Type key

Example: **Wilo-Sub TWU 8 – 4208-B**

TWU	Submersible pump
8	Minimum diameter Borehole \varnothing 8" = DN 200
42	Nominal volumetric flow [m ³ /h]
08	Number of pump stages
-B	Pump generation

Application

Water supply from boreholes with a minimum diameter of

6" (= DN 150)

8" (= DN 200)

and an immersion depth of

250 m ((TWU 6...-B)

350 m (TWU 8...-B)

Water supply from boreholes and cisterns, sprinkling and irrigation.

Industrial pumping of cooling water. Lowering the ground water level.

Pumping water without long-fibre and abrasive constituents.

Construction

Hydraulics

Multistage submersible motor pump with radial impellers or semi-axial impellers made of bronze. Stage housing made of cast iron. Vertical or horizontal installation possible. Built-in non-return valve in the pump head.

Motor

Corrosion-free three-phase motor with enamelled windings in hermetically cast stator for direct starting. Sealed cast stator, resin-saturated, self-lubricating bearings. Motor cooling is effected by the temperature and flow velocity of the pumped liquid outside of the motor.

Scope of delivery

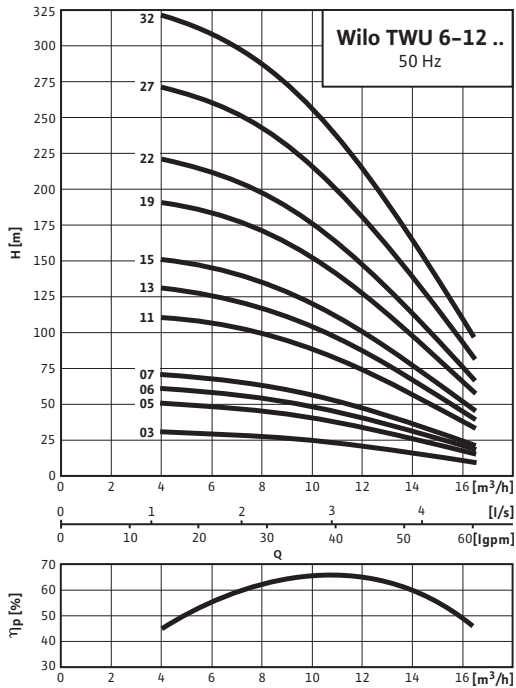
Connection cable (VDE/KTW), packaging and installation and operating instructions.

Options

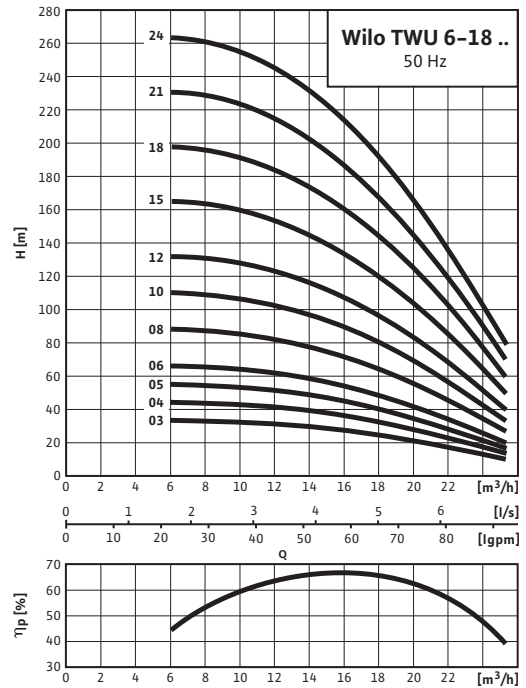
- 60 Hz motor
- PT 100 sensor built into the motor
- Star/delta start-up
- Rewindable motors

Pump curves Wilo-Sub TWU 6...-B, TWU 8...-B

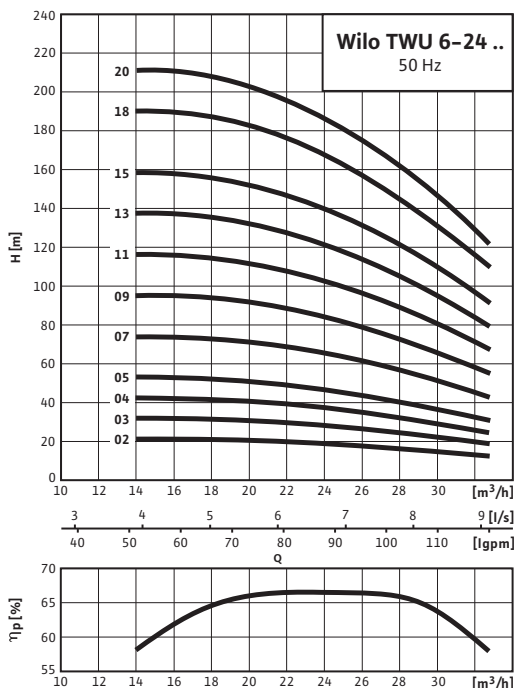
Wilo-Sub TWU 6-1203-B to 1232-B



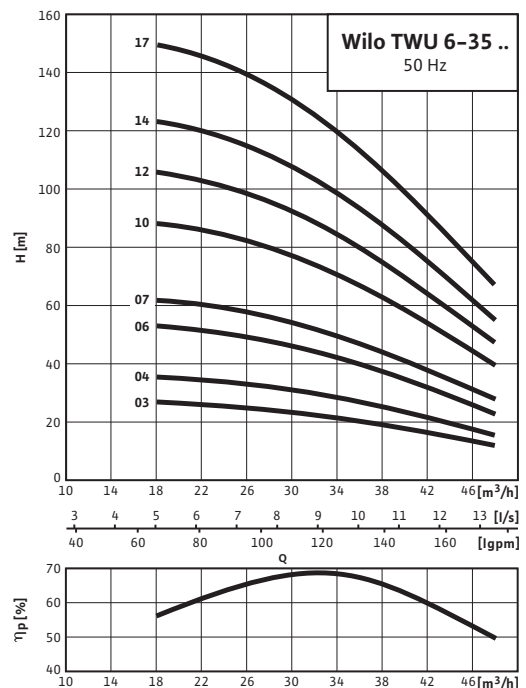
Wilo-Sub TWU 6-1803-B to 1824-B



Wilo-Sub TWU 6-2402-B to 2420-B



Wilo-Sub TWU 6-3503-B to 3517-B

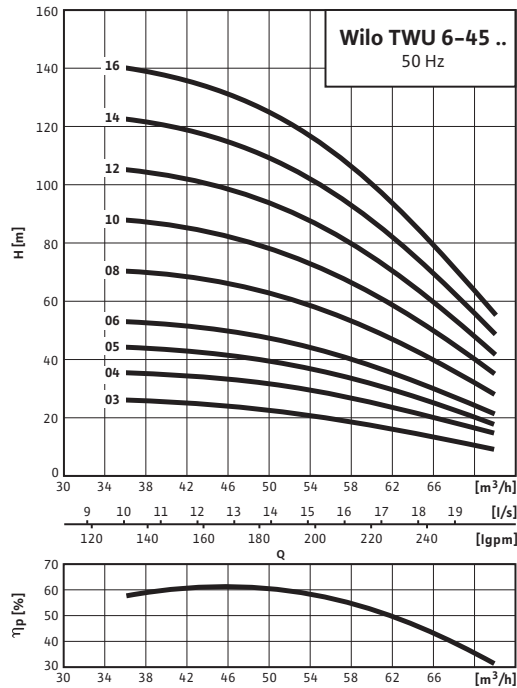


Building Services/Domestic Water Supply

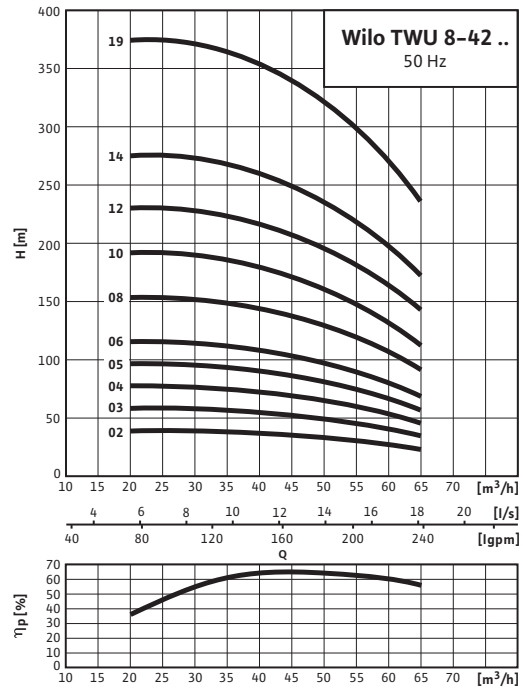
Irrigation and drainage

Pump curves Wilo-Sub TWU 6...-B, TWU 8...-B

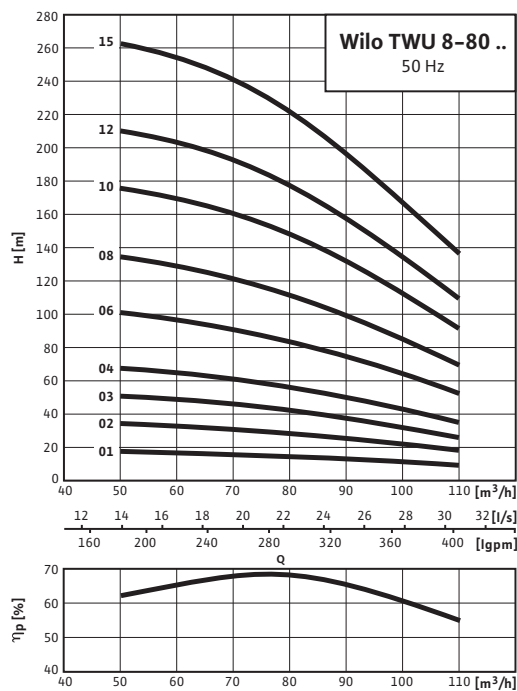
Wilo-Sub TWU 6-4503-B to 4516-B



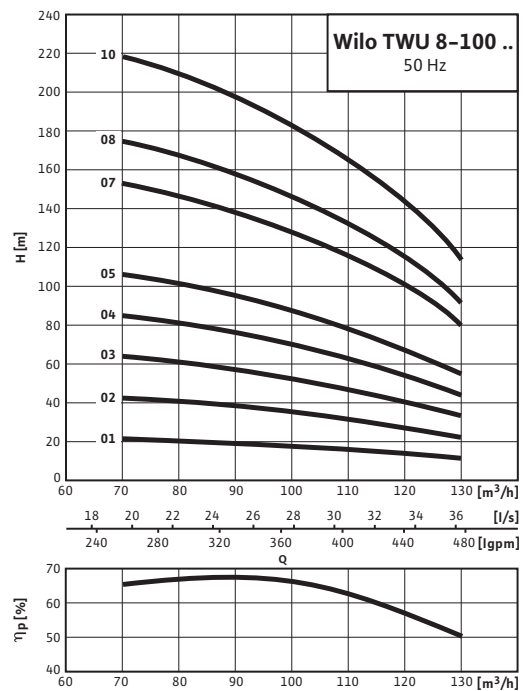
Wilo-Sub TWU 8-4202-B to 4219-B



Wilo-Sub TWU 8-8001-B to 8015-B



Wilo-Sub TWU 8-10001-B to 10010-B



Motor data Wilo-Sub TWU 6...-B, TWU 8...-B

Motor data						
Wilo-Sub TWU ...	Motor diameter	Nominal power P ₂	Nominal current I _N 3~400 V, 50 Hz	Cable length	Cable cross-section	
					Starting mode	
					Direct	Y/Δ
		[kW]	[A]	[m]	[mm ²]	
6-1203-B	4"	1.1	3.0	2.5	4 x 1.5	–
6-1205-B	4"	2.2	5.9	2.5	4 x 1.5	–
6-1206-B	4"	2.2	5.9	2.5	4 x 1.5	–
6-1207-B	4"	3	7.8	2.5	4 x 1.5	–
6-1211-B	4"	4	10.0	2.5	4 x 1.5	–
6-1213-B	4"	5.5	13.7	2.5	4 x 1.5	–
6-1215-B ³⁾	6"	5.5	13.7	2.5	4 x 1.5	2 x 4 x 1.5
6-1219-B ³⁾	6"	7.5	16.0	4	4 x 4	2 x 4 x 4
6-1222-B ³⁾	6"	9.3	20.7	4	4 x 4	2 x 4 x 4
6-1227-B ³⁾	6"	11	23.3	4	4 x 4	2 x 4 x 4
6-1232-B ³⁾	6"	15	31.3	4	4 x 4	2 x 4 x 4
6-1803-B	4"	2.2	5.9	2.5	4 x 1.5	–
6-1804-B	4"	3	7.8	2.5	4 x 1.5	–
6-1805-B	4"	3	7.8	2.5	4 x 1.5	–
6-1806-B	4"	4	10.0	2.5	4 x 1.5	–
6-1808-B	4"	5.5	13.7	2.5	4 x 1.5	–
6-1810-B ³⁾	6"	7.5	16.0	4	4 x 4	2 x 4 x 4
6-1812-B ³⁾	6"	7.5	16.0	4	4 x 4	2 x 4 x 4
6-1815-B ³⁾	6"	11	23.3	4	4 x 4	2 x 4 x 4
6-1818-B ³⁾	6"	11	23.3	4	4 x 4	2 x 4 x 4
6-1821-B ³⁾	6"	15	31.3	4	4 x 4	2 x 4 x 4
6-1824-B ³⁾	6"	15	31.3	4	4 x 4	2 x 4 x 4
6-2402-B	4"	2.2	5.9	2.5	4 x 1.5	–
6-2403-B	4"	3	7.8	2.5	4 x 1.5	–
6-2404-B	4"	4	10.0	2.5	4 x 1.5	–
6-2405-B	4"	5.5	13.7	2.5	4 x 1.5	–
6-2407-B ³⁾	6"	7.5	16.0	4	4 x 4	2 x 4 x 4
6-2409-B ³⁾	6"	11	23.3	4	4 x 4	2 x 4 x 4
6-2411-B ³⁾	6"	11	23.3	4	4 x 4	2 x 4 x 4
6-2413-B ³⁾	6"	15	31.3	4	4 x 4	2 x 4 x 4
6-2415-B ³⁾	6"	15	31.3	4	4 x 4	2 x 4 x 4
6-2418-B ³⁾	6"	18.5	38.5	4	4 x 4	2 x 4 x 4
6-2420-B ³⁾	6"	22	45.3	4	4 x 4	2 x 4 x 4
6-3503-B	4"	3	7.8	2.5	4 x 1.5	–
6-3504-B	4"	4	10.0	2.5	4 x 1.5	–
6-3506-B ³⁾	6"	7.5	16.0	4	4 x 4	2 x 4 x 4
6-3507-B ³⁾	6"	7.5	16.0	4	4 x 4	2 x 4 x 4
6-3510-B ³⁾	6"	11	23.3	4	4 x 4	2 x 4 x 4
6-3512-B ³⁾	6"	15	31.3	4	4 x 4	2 x 4 x 4
6-3514-B ³⁾	6"	15	31.3	4	4 x 4	2 x 4 x 4
6-3517-B ³⁾	6"	18.5	38.5	4	4 x 4	2 x 4 x 4
6-4503-B	4"	5.5	13.7	2.5	4 x 1.5	–
6-4504-B ³⁾	6"	7.5	16.0	4	4 x 4	2 x 4 x 4

¹⁾ including an additional cable 3 x 8.4 mm²

²⁾ earthing cable (1 x 25 mm²) additionally available

³⁾ optional Y/Δ

Building Services/Domestic Water Supply

Irrigation and drainage

Motor data Wilo-Sub TWU 6...-B, TWU 8...-B

Motor data						
Wilo-Sub TWU ...	Motor diameter	Nominal power P ₂	Nominal current I _N 3~400 V, 50 Hz	Cable length	Cable cross-section	
					Starting mode	
					Direct	Y/Δ
					[mm ²]	
6-4505-B ³⁾	6"	9.3	20.7	4	4 x 4	2 x 4 x 4
6-4506-B ³⁾	6"	11	23.3	4	4 x 4	2 x 4 x 4
6-4508-B ³⁾	6"	15	31.3	4	4 x 4	2 x 4 x 4
6-4510-B ³⁾	6"	18.5	38.5	4	4 x 4	2 x 4 x 4
6-4512-B ³⁾	6"	22	45.3	4	4 x 4	2 x 4 x 4
6-4514-B ³⁾	6"	30	63.5	4	4 x 8.4	2 x 4 x 4
6-4516-B ³⁾	6"	30	63.5	4	4 x 8.4	2 x 4 x 4
8-4202-B ³⁾	6"	7.5	16.0	4	4 x 4	2 x 4 x 4
8-4203-B ³⁾	6"	11	23.3	4	4 x 4	2 x 4 x 4
8-4204-B ³⁾	6"	15	31.3	4	4 x 4	2 x 4 x 4
8-4204-B ³⁾	6"	18.5	38.5	4	4 x 4	2 x 4 x 4
8-4206-B ³⁾	6"	22	45.3	4	4 x 4	2 x 4 x 4
8-4208-B ³⁾	6"	30	63.5	4	4 x 8.4	2 x 4 x 4
8-4210-B ³⁾	6"	37	73.0	4	4 x 8.4	2 x 4 x 4
8-4212-B ³⁾	6"	45	89.5	4	4 x 8.4	2 x 4 x 8.4 ¹⁾
8-4214-B ³⁾	8"	55	108.0	8	3 x 16	6 x 1 x 16
8-4219-B ³⁾	8"	75	145.0	8	3 x 16	6 x 1 x 16 ²⁾
8-8001-B ³⁾	6"	5.5	13.7	4	4 x 4	2 x 4 x 4
8-8002-B ³⁾	6"	11	23.3	4	4 x 4	2 x 4 x 4
8-8003-B ³⁾	6"	15	31.3	4	4 x 4	2 x 4 x 4
8-8004-B ³⁾	6"	22	45.3	4	4 x 4	2 x 4 x 4
8-8006-B ³⁾	6"	30	63.5	4	4 x 8.4	2 x 4 x 4
8-8008-B ³⁾	6"	45	89.5	4	4 x 8.4	2 x 4 x 4
8-8010-B ³⁾	8"	55	108.0	8	3 x 16	6 x 1 x 16
8-8012-B ³⁾	8"	75	145.0	8	3 x 16	6 x 1 x 16
8-8015-B ³⁾	8"	93	190.0	8	3 x 16	6 x 1 x 16 ²⁾
8-10001-B ³⁾	6"	9.3	20.7	4	4 x 4	2 x 4 x 4
8-10002-B ³⁾	6"	18.5	38.5	4	4 x 4	2 x 4 x 4
8-10003-B ³⁾	6"	30	63.5	4	4 x 8.4	2 x 4 x 4
8-10004-B ³⁾	6"	30	63.5	4	4 x 8.4	6 x 1 x 16
8-10005-B ³⁾	6"	45	89.5	4	4 x 8.4	6 x 1 x 16
8-10007-B ³⁾	8"	55	108.0	8	3 x 16	6 x 1 x 16
8-10008-B ³⁾	8"	75	145.0	8	3 x 16	6 x 1 x 16 ²⁾
8-10010-B ³⁾	8"	93	190.0	8	3 x 16	6 x 1 x 16

¹⁾ including an additional cable 3 x 8.4 mm²

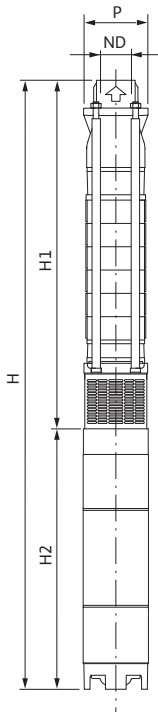
²⁾ earthing cable (1 x 25 mm²) additionally available

³⁾ optional Y/Δ

Dimensions, weights Wilo-Sub TWU 6...-B, TWU 8...-B

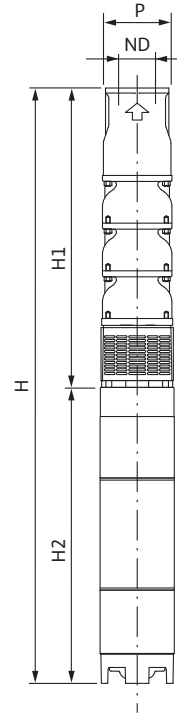
Dimension drawing Wilo-Sub TWU 6

(2-pole/50 Hz)



Dimension drawing Wilo-Sub TWU 8

(2-pole/50 Hz)



Dimensions, weights Wilo-Sub TWU 6...-B, TWU 8...-B

Wilo-Sub TWU ...	ND	P	H	H ₁	H ₂	Weight ¹⁾
						[mm]
6-1203-B	Rp 2	143	810.5	512	298.5	29.5
6-1205-B	Rp 2	143	942	586	356	37.1
6-1206-B	Rp 2	143	979	623	356	39.6
6-1207-B	Rp 2	143	1167	660	507	45.1
6-1211-B	Rp 2	143	1391	808	583	62.1
6-1213-B	Rp 2	143	1579	882	697	72.4
6-1215-B	Rp 2	143	1653	956	697	77.4
6-1219-B	Rp 2	143	1781.5	1135.5	646	105
6-1222-B	Rp 2	143	2075.5	1396.5	679	112.0
6-1227-B	Rp 2	143	2292.5	1581.5	711	148.2
6-1232-B	Rp 2	143	2592.5	1816.5	776	143.2
6-1803-B	Rp 2	143	886	530	356	37.1
6-1804-B	Rp 2	143	1080	573	507	42.1
6-1805-B	Rp 2	143	1123	616	507	44.1
6-1806-B	Rp 2	143	1242	659	583	53.1
6-1808-B	Rp 2	143	1442	745	697	62.4
6-1810-B	Rp 2	143	1508.5	862.5	646	84
6-1812-B	Rp 2	143	1594.5	948.5	646	88
6-1815-B	Rp 2	143	1788.5	1077.5	711	99.7

¹⁾ without packaging

Building Services/Domestic Water Supply

Irrigation and drainage

Dimensions, weights Wilo-Sub TWU 6...-B, TWU 8...-B

Dimensions, weights Wilo-Sub TWU 6...-B, TWU 8...-B						
Wilo-Sub TWU ...	ND	P	H	H ₁	H ₂	Weight ¹⁾
6-1818-B	Rp 2	143	1917.5	1206.5	711	105.7
6-1821-B	Rp 2	143	2261.5	1485.5	776	117.5
6-1824-B	Rp 2	143	2390.5	1614.5	776	123.5
6-2402-B	Rp 2	143	867	511	356	34.1
6-2403-B	Rp 2	143	1073	566	507	39.6
6-2404-B	Rp 2	143	1204	621	583	49.1
6-2405-B	Rp 2	143	1373	676	697	56.9
6-2407-B	Rp 2	143	1463.5	817.5	646	80.5
6-2409-B	Rp 2	143	1638.5	927.5	711	91.2
6-2411-B	Rp 2	143	1748.5	1037.5	711	96.2
6-2413-B	Rp 2	143	1923.5	1147.5	776	107
6-2415-B	Rp 2	143	2033.5	1257.5	776	112
6-2418-B	Rp 2	143	2264.5	1422.5	842	126.1
6-2420-B	Rp 2	143	2439.5	1532.5	907	138.6
6-3503-B	Rp 2½	143	1062	555	507	39.1
6-3504-B	Rp 2½	143	1228	645	583	50.6
6-3506-B	Rp 2½	143	1522	825	697	64.9
6-3507-B	Rp 2½	143	1592.5	946.5	646	85.5
6-3510-B	Rp 2½	143	1927.5	1216.5	711	100.2
6-3512-B	Rp 2½	143	2172.5	1396.5	776	115
6-3514-B	Rp 2½	143	2352.5	1576.5	776	124
6-3517-B	Rp 2½	143	2688.5	1846.5	842	144.1
6-4503-B	Rp 3	143	1298.5	601.5	697	54.9
6-4504-B	Rp 3	143	1202	738	464	77
6-4505-B	Rp 3	143	1522	843	679	85.3
6-4506-B	Rp 3	143	1659	948	711	94.7
6-4508-B	Rp 3	143	1934	1158	776	112.5
6-4510-B	Rp 3	143	2210	1368	842	127.1
6-4512-B	Rp 3	143	2485	1578	907	146.6
6-4514-B	Rp 3	143	2825	1788	1037	172.9
6-4516-B	Rp 3	143	3035	1998	1037	184.9
8-4202-B	Rp 3	190	1294	648	646	89.5
8-4203-B	Rp 3	190	1424	713	711	101.7
8-4204-B	Rp 3	190	1554	778	776	114
8-4205-B	Rp 3	190	1685	843	842	127.1
8-4206-B	Rp 3	190	1815	908	907	141.1
8-4208-B	Rp 3	190	2075	1038	1037	168.4
8-4210-B	Rp 3	190	2573	1168	1405	208.2
8-4212-B	Rp 3	190	2856	1298	1558	236.2
8-4214-B	Rp 3	190	2660.6	1456.6	1204	298.5
8-4219-B	Rp 3	190	3176.6	1781.6	1395	370.7
8-8001-B	Rp 4	190	1137.5	523.5	614	68.9
8-8002-B	Rp 4	190	1354.5	643.5	711	88.7
8-8003-B	Rp 4	190	1539.5	763.5	776	104.5
8-8004-B	Rp 4	190	1790.5	883.5	907	128.6
8-8006-B	Rp 4	190	2160.5	1123.5	1037	162.9
8-8008-B	Rp 4	190	2921.5	1363.5	1558	236.2
8-8010-B	Rp 4	190	2836.1	1632.1	1204	302.2

¹⁾ without packaging

Dimensions, weights Wilo-Sub TWU 6...-B, TWU 8...-B

Dimensions, weights Wilo-Sub TWU 6...-B, TWU 8...-B

Wilo-Sub TWU ...	ND	P	H	H ₁	H ₂	Weight ¹⁾
						[mm]
8-8012-B	Rp 4	190	3267.1	1872.1	1395	414.2
8-8015-B	Rp 4	190	3979.1	2232.1	1747	406.2
8-10001-B	Rp 5	190	1241	562	679	83.3
8-10002-B	Rp 5	190	1534	692	842	112.1
8-10003-B	Rp 5	190	1859	822	1037	143.9
8-10004-B	Rp 5	190	1989	952	1037	155.4
8-10005-B	Rp 5	190	2640	1082	1558	215.2
8-10007-B	Rp 5	190	2574.6	1370.6	1204	289.2
8-10008-B	Rp 5	190	2895.6	1500.6	1395	338.7
8-10010-B	Rp 5	190	3507.6	1760.6	1747	439.7

¹⁾ without packaging

Building Services/Domestic Water Supply



Accessories

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Product description cooling jacket pipes TWU 3

Cooling jacket pipes for TWU 3 submersible pumps



Application

For cooling the motor when the pump is installed in well shafts, cisterns, tanks, etc. when the flow speeds required for motor cooling are not achieved.

Construction

The cooling jackets are made of rust-free stainless steel (AISI 304/DIN 1.4301). It is available in lengths of 500 mm. The cooling jacket is suitable for both vertical and horizontal installation.

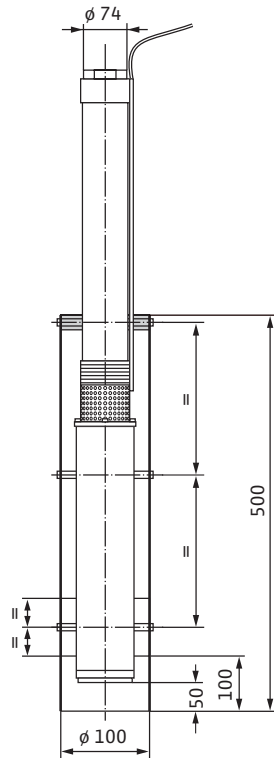
Legend

- 1 Cooling jacket pipes
- 2 Feet (only for horizontal installation; separate item no.)
- 3 Hydraulic centring device
- 4 Pipe clamps
- 5 Motor centring device

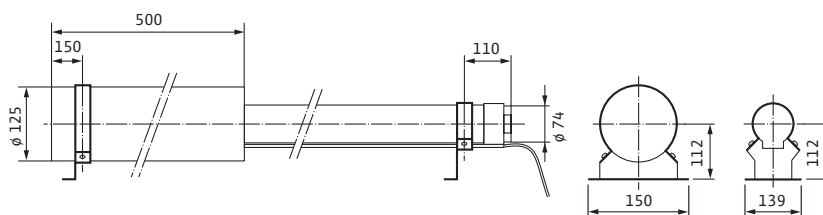
Dimensions TWU 3 cooling jacket pipes

Dimension drawings

Vertical installation



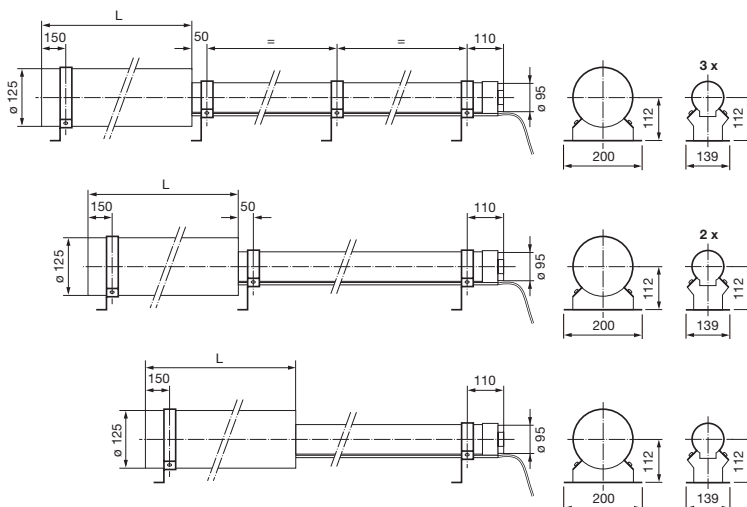
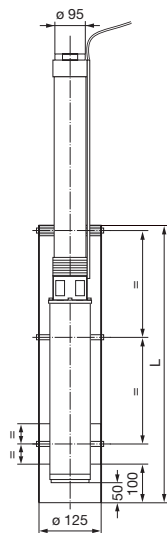
Horizontal installation



In addition to the cooling jacket pipe, depending on the length of the hydraulics, fixing devices with 2 feet are required with horizontal installation. These are to be ordered separately as a kit.

Product description, dimensions cooling jacket pipes for TWU 4

Cooling jacket pipes for submersible motor pumps TWU 4 (also TWI 4...-B, see page 52)



Application:

For cooling the motor when the pump is installed in well shafts, cisterns, tanks, etc. when the flow speeds required for motor cooling are not achieved.

Construction:

The cooling jackets are made of rust-free stainless steel (AISI 304/DIN 1.4301). They are - depending on the size of the motor - available in lengths of 500 mm, 750 mm or 1000 mm.

The cooling jackets can be used for either vertical or horizontal installation.

Legend:

- 1 Cooling jacket pipes
- 2 Feet (only for horizontal installation; separate item no.)
- 3 Hydraulic centring device
- 4 Pipe clamps
- 5 Motor centring device

Vertical installation

The required lengths of the cooling jacket pipes, depending on the pump type, can be found in the following Table.

Horizontal installation

In addition to the cooling jacket pipe, depending on the length of the hydraulics, fixing devices with 2 to 4 feet are required with horizontal installation. These are in each case to be ordered separately as a kit (see following Table).

Cooling jacket pipes for TWU 4

Wilo-TWU 4 ...	Performance	Vertical installation Required cooling jacket pipe in length L			Horizontal installation Additionally req. kit for fixing devices		
		500	750	1000	Kit 1 (2 pieces fixations)	Kit 2 (3 pieces fixations)	Kit 3 (4 pieces fixations)
	[kW]	[mm]					
0211 EM	0.37	•	–	–	•	–	–
0211 DM	0.37	•	–	–	•	–	–
0211 EMSC	0.37	•	–	–	•	–	–
0216 EM	0.55	•	–	–	•	–	–
0216 DM	0.55	•	–	–	•	–	–
0216 EMSC	0.55	•	–	–	•	–	–
0222 EM	0.75	•	–	–	•	–	–
0222 DM	0.75	•	–	–	–	•	–
0222 EMSC	0.75	•	–	–	•	–	–
0227 EM	1.1	•	–	–	–	•	–
0227 DM	1.1	•	–	–	–	•	–
0227 EMSC	1.1	–	•	–	–	•	–
0232 EM	1.1	•	–	–	–	•	–
0232 DM	1.1	•	–	–	–	•	–
0232 EMSC	1.1	–	•	–	–	•	–
0246 EM	1.5	•	–	–	–	•	–
0246 DM	1.5	•	–	–	–	•	–
0246 EMSC	1.5	–	•	–	–	•	–
0260 EM	2.2	–	•	–	–	•	–
0260 DM	2.2	•	–	–	–	•	–
0260 EMSC	2.2	–	•	–	–	•	–
0405 EM	0.37	•	–	–	•	–	–
0405 DM	0.37	•	–	–	•	–	–
0405 EMSC	0.37	•	–	–	•	–	–
0407 EM	0.55	•	–	–	•	–	–
0407 DM	0.55	•	–	–	•	–	–
0407 EMSC	0.55	•	–	–	•	–	–
0410 EM	0.75	•	–	–	•	–	–
0410 DM	0.75	•	–	–	–	•	–
0410 EMSC	0.75	•	–	–	•	–	–
0415 EM	1.1	•	–	–	•	–	–
0415 DM	1.1	•	–	–	–	•	–
0415 EMSC	1.1	–	•	–	–	•	–
0420 EM	1.5	–	•	–	–	•	–
0420 DM	1.5	•	–	–	–	•	–
0420 EMSC	1.5	–	•	–	–	•	–

Building Services/Domestic Water Supply

Accessories

Cooling jacket pipes for TWU 4

Wilo-TWU 4 ...	Performance	Vertical installation Required cooling jacket pipe in length L			Horizontal installation Additionally req. kit for fixing devices		
		500	750	1000	Kit 1 (2 pieces fixations)	Kit 2 (3 pieces fixations)	Kit 3 (4 pieces fixations)
	[kW]	[mm]					
0430 EM	2.2	–	•	–	–	•	–
0430 DM	2.2	•	–	–	–	•	–
0430 EMSC	2.2	–	•	–	–	•	–
0440 DM	3	–	•	–	–	•	–
0445 DM	4	–	•	–	–	–	•
0450 DM	4	–	•	–	–	–	•
0804 EM	0.75	•	–	–	•	–	–
0804 DM	0.75	•	–	–	•	–	–
0804 EMSC	0.75	•	–	–	•	–	–
0806 EM	1.1	•	–	–	•	–	–
0806 DM	1.1	•	–	–	–	•	–
0806 EMSC	1.1	–	•	–	–	•	–
0808 EM	1.5	–	•	–	–	•	–
0808 DM	1.5	•	–	–	–	•	–
0808 EMSC	1.5	–	•	–	–	•	–
0812 EM	2.2	–	•	–	–	•	–
0812 DM	2.2	•	–	–	–	•	–
0812 EMSC	2.2	–	•	–	–	•	–
0817 DM	3	–	•	–	–	•	–
0820 EM	3.7	–	•	–	–	–	•
0824 DM	4	–	•	–	–	–	•
0830 DM	5.5	–	•	–	–	–	•
1607 EM	1.5	–	•	–	–	•	–
1607 DM	1.5	•	–	–	–	•	–
1607 EMSC	1.5	–	•	–	–	•	–
1610 EM	2.2	–	•	–	–	•	–
1610 DM	2.2	•	–	–	–	•	–
1610 EMSC	2.2	–	•	–	–	•	–
1614 DM	3	–	•	–	–	•	–

Product description cooling jacket pipes TWU 6...-B, 8...-B

Cooling jacket pipes for submersible motor pumps TWU 6...-B, 8...-B



Application:

For cooling the motor when the pump is installed in well shafts, cisterns, tanks, etc. when the flow speeds required for motor cooling are not achieved.

Construction:

The cooling jackets are made of rust-free stainless steel (AISI 304/DIN 1.4301). They are - depending on the size of the motor - available in lengths of 500 mm, 750 mm or 1000 mm.

The cooling jackets can be used for either vertical or horizontal installation.

Legend:

- 1 Cooling jacket pipe
- 2 Feet (only for horizontal installation; separate item no.)
- 3 Hydraulic centring device
- 4 Pipe clamps
- 5 Motor centring device

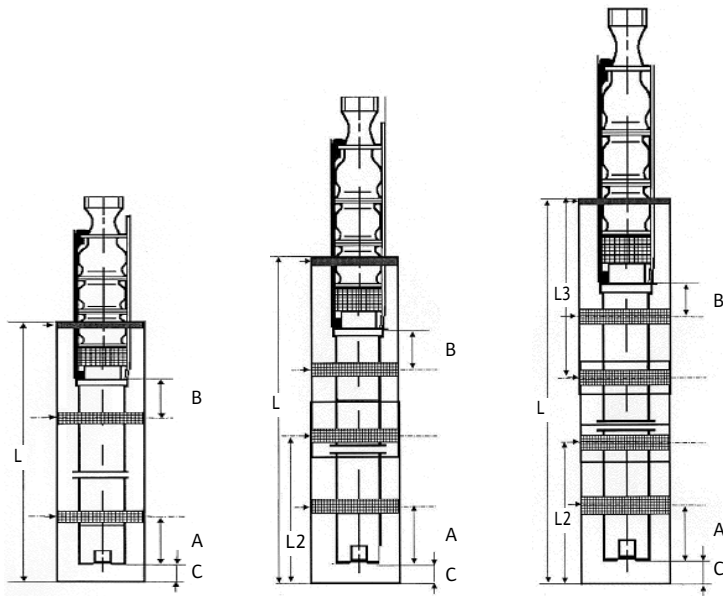
Building Services/Domestic Water Supply

Accessories

Dimensions Cooling jacket pipes TWU 6...-B, 8...-B

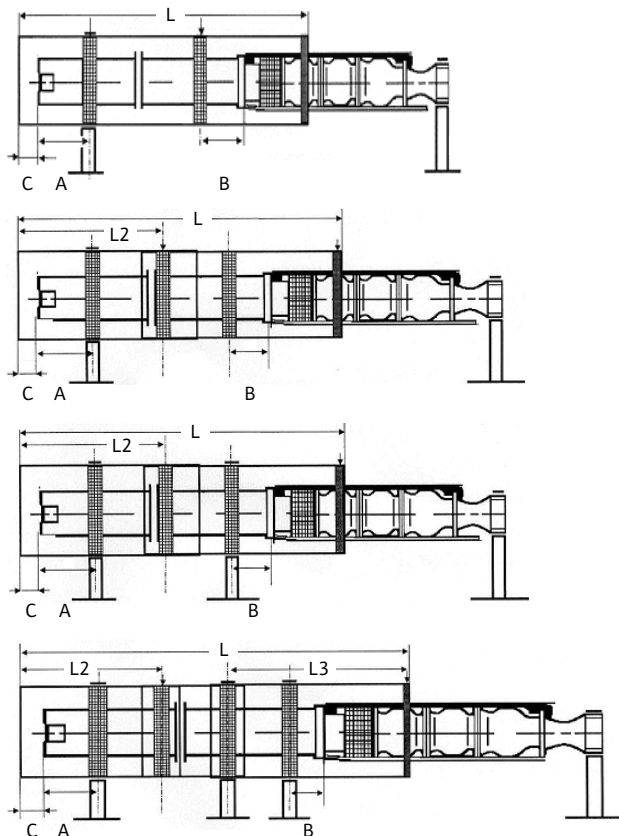
Dimension drawings

Vertical installation



The required lengths of the cooling jacket pipes, depending on the pump type, can be found in the following Table.

Horizontal installation

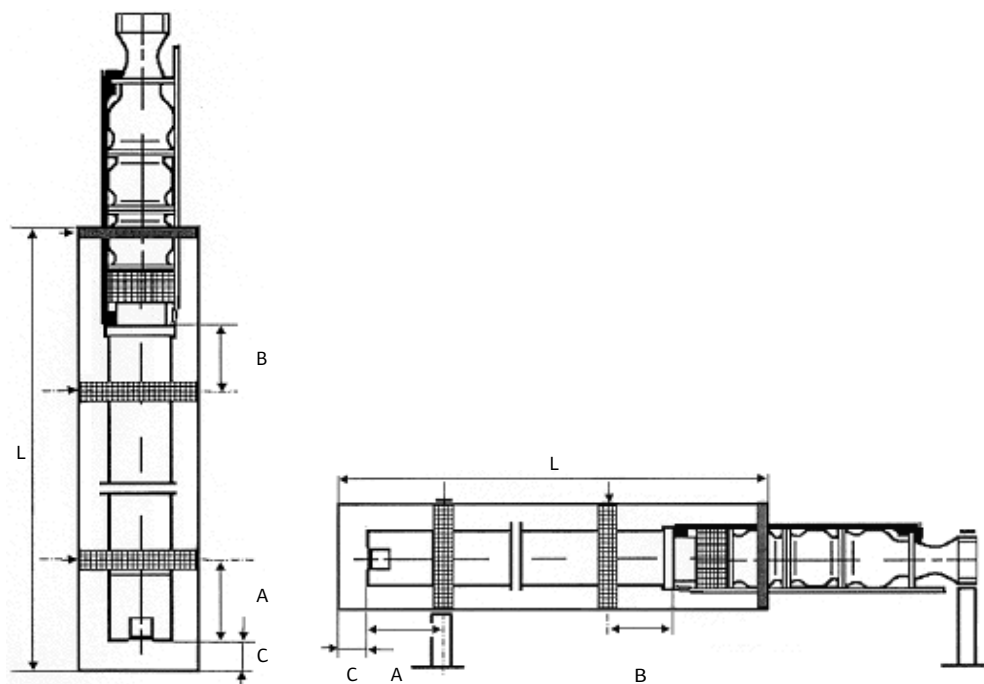


In addition to the cooling jacket pipe, depending on the length of the hydraulics, fixing devices with 2 to 4 feet are required (see following Table).

Dimensions, weights cooling jacket pipes TWU 6...-B, 8...-B

Dimension drawing

Installation with one pipe



Dimensions, weight

Wilo-TWU ...	∅ Cooling jacket pipe [mm]	∅ Motor [mm]	Pipe length L [mm]	Cooling jacket pipe (n x l)	Distance rings (∅ Pipe/Motor x n)	Pipe clamp (∅ x n)	Seal	A	B	C	L2	L3	Weight [kg]
6-1203-B	200	93.6	526	1x650	200/93.5x2	200 x 3	6" 12-18	150	70	174	-	-	29.5
6-1205-B	200	93.6	583	1x650	200/93.5x2	200 x 3	6" 12-18	150	70	117	-	-	37.1
6-1206-B	200	93.6	583	1x650	200/93.5x2	200 x 3	6" 12-18	150	70	117	-	-	39.6
6-1207-B	200	93.6	650	1x650	200/93.5x2	200 x 3	6" 12-18	150	70	50	-	-	45.1
6-1211-B	200	93.6	810	1x815	200/93.5x2	200 x 3	6" 12-18	150	70	57	-	-	62.1
6-1213-B	200	93.6	924	1x925	200/93.5x2	200 x 3	6" 12-18	150	70	51	-	-	72.4
6-1215-B	200	93.6	924	1x925	200/93.5x2	200 x 3	6" 12-18	150	70	51	-	-	77.4
6-1219-B	200	134.5	905	1x925	200/134.5x2	200 x 3	6" 12-18	215	140	70	-	-	105
6-1222-B	200	134.5	951	1x925	200/134.5x2	200 x 3	6" 12-18	215	140	24	-	-	114.8
6-1227-B	200	134.5	983	1x1000	200/134.5x2	200 x 3	6" 12-18	215	140	67	-	-	130.7
6-1232-B	200	134.5	1048	1x1000	200/134.5x2	200 x 3	6" 12-18	215	140	2	-	-	149
6-1803-B	200	93.6	589	1x650	200/93.5x2	200 x 3	6" 12-18	150	70	111	-	-	37.1
6-1804-B	200	93.6	656	1x650	200/93.5x2	200 x 3	6" 12-18	150	70	44	-	-	42.1
6-1805-B	200	93.6	656	1x650	200/93.5x2	200 x 3	6" 12-18	150	70	44	-	-	44.1

n = quantity

l = standard length

Building Services/Domestic Water Supply

Accessories

Dimensions, weights cooling jacket pipes TWU 6...-B, 8...-B

Dimensions, weight

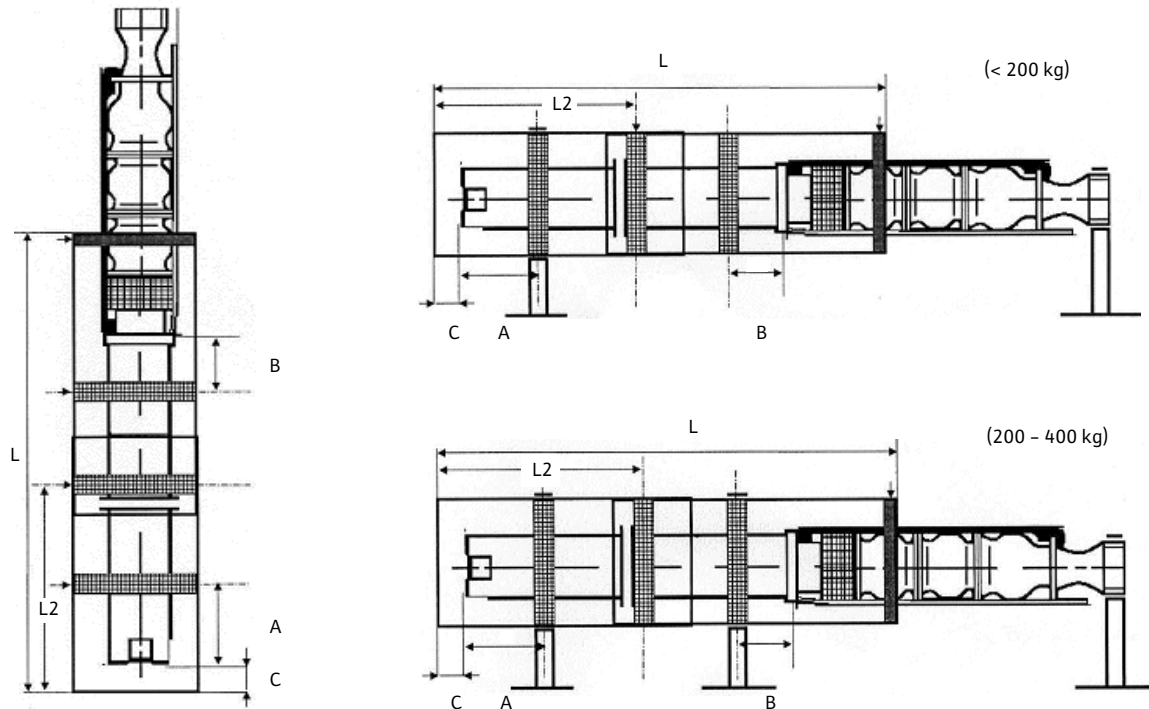
Wilo-TWU ...	∅ Cooling jacket pipe [mm]	∅ Motor [mm]	Pipe length L [mm]	Cooling jacket pipe (n x l)	Distance rings (∅ Pipe/Motor x n)	Pipe clamp (∅ x n)	Seal	A	B	C	L2	L3	Weight [kg]
6-1806-B	200	93.6	816	1x815	200/93.5x2	200 x 3	6" 12-18	150	70	49	-	-	53.1
6-1808-B	200	93.6	930	1x925	200/93.5x2	200 x 3	6" 12-18	150	70	45	-	-	62.4
6-1810-B	200	134.5	911	1x925	200/134.5x2	200 x 3	6" 12-18	215	140	64	-	-	84
6-1812-B	200	134.5	911	1x925	200/134.5x2	200 x 3	6" 12-18	215	140	64	-	-	88
6-1815-B	200	134.5	976	1x925	200/134.5x2	200 x 3	6" 12-18	215	140	0	-	-	99.7
6-1818-B	200	134.5	976	1x925	200/134.5x2	200 x 3	6" 12-18	215	140	0	-	-	105.7
6-1821-B	200	134.5	1048	1x1000	200/134.5x2	200 x 3	6" 12-18	215	140	2	-	-	117.5
6-1824-B	200	134.5	1048	1x1000	200/134.5x2	200 x 3	6" 12-18	215	140	2	-	-	123.5
6-2402-B	200	93.6	601	1x650	200/93.5x2	200 x 3	6" 24	150	70	99	-	-	34.1
6-2403-B	200	93.6	668	1x650	200/93.5x2	200 x 3	6" 24	150	70	32	-	-	39.6
6-2404-B	200	93.6	828	1x815	200/93.5x2	200 x 3	6" 24	150	70	37	-	-	49.1
6-2405-B	200	93.6	942	1x925	200/93.5x2	200 x 3	6" 24	150	70	33	-	-	56.9
6-2407-B	200	134.5	923	1x925	200/134.5x2	200 x 3	6" 24	215	140	52	-	-	80.5
6-2409-B	200	134.5	988	1x1000	200/134.5x2	200 x 3	6" 24	215	140	62	-	-	91.2
6-2411-B	200	134.5	988	1x1000	200/134.5x2	200 x 3	6" 24	215	140	62	-	-	96.2
6-2413-B	200	134.5	1053	1x1000	200/134.5x2	200 x 3	6" 24	215	140	0	-	-	107
6-2415-B	200	134.5	1053	1x1000	200/134.5x2	200 x 3	6" 24	215	140	0	-	-	112
6-3503-B	200	93.6	641	1x650	200/93.5x2	200 x 3	6" 35	150	70	59	-	-	39.1
6-3504-B	200	93.6	801	1x815	200/93.5x2	200 x 3	6" 35	150	70	64	-	-	50.6
6-3506-B	200	134.5	877	1x925	200/134.5x2	200 x 3	6" 35	215	140	98	-	-	81
6-3507-B	200	134.5	888	1x925	200/134.5x2	200 x 3	6" 35	215	140	87	-	-	85.5
6-3510-B	200	134.5	953	1x925	200/134.5x2	200 x 3	6" 35	215	140	22	-	-	100.2
6-3512-B	200	134.5	1018	1x1000	200/134.5x2	200 x 3	6" 35	215	140	32	-	-	115
6-3514-B	200	134.5	1018	1x1000	200/134.5x2	200 x 3	6" 35	215	140	32	-	-	124
6-4503-B	200	93.6	917	1x925	200/93.5x2	200 x 3	6" 45	150	70	58	-	-	54.9
6-4504-B	200	134.5	898	1x925	200/134.5x2	200 x 3	6" 45	215	140	77	-	-	77
6-4505-B	200	134.5	931	1x925	200/134.5x2	200 x 3	6" 45	215	140	44	-	-	85.3
6-4508-B	200	134.5	963	1x925	200/134.5x2	200 x 3	6" 45	215	140	12	-	-	94.7
8-4202-B	200	134.5	1028	1x1000	200/134.5x2	200 x 3	6" 45	215	140	22	-	-	112.5
8-4203-B	220	134.5	930	1x1000	220/134.5x2	220 x 3	8" 42	215	140	120	-	-	89.5
8-4204-B	220	134.5	995	1x1000	220/134.5x2	220 x 3	8" 42	215	140	55	-	-	101.7
8-8001-B	220	134.5	1060	1x1000	220/134.5x2	220 x 3	8" 42	215	140	0	-	-	114
8-8002-B	220	134.5	854	1x1000	220/134.5x2	220 x 3	8" 80	215	140	196	-	-	68.9
8-8003-B	220	134.5	961	1x1000	220/134.5x2	220 x 3	8" 80	215	140	89	-	-	88.7
8-10001-B	220	134.5	1026	1x1000	220/134.5x2	220 x 3	8" 80	215	140	24	-	-	104.5

n = quantity
l = standard length

Dimensions, weights cooling jacket pipes TWU 6...-B, 8...-B

Dimension drawing

Installation with two pipes



Dimensions, weight

Wilo-TWU ...	∅ Cooling jacket pipe [mm]	∅ Motor [mm]	L = pipe length [mm]	Cooling jacket pipe (n x l)	Distance rings (∅ Pipe/Motor x n)	Pipe clamp (∅ x n)	Seal	A	B	C	L2	L3	Weight [kg]
6-2418-B	200	134.5	1120	2x650	200/134.5x3	200 x 3	6" 24	215	140	50	600	-	126.1
6-2420-B	200	134.5	1184	1x650 +1x815	200/134.5x3	200 x 4	6" 24	215	140	50	600	-	138.6
6-3517-B	200	134.5	1084	2x650	200/134.5x3	200 x 3	6" 35	215	140	50	600	-	144.1
6-4510-B	200	134.5	1094	2x650	200/134.5x3	200 x 3	6" 45	215	140	50	600	-	127.1
6-4512-B	200	134.5	1159	1x650 +1x815	200/134.5x3	200 x 4	6" 45	215	140	50	600	-	146.6
6-4514-B	200	134.5	1289	1x650 +1x815	200/134.5x3	200 x 4	6" 45	215	140	50	600	-	172.9
6-4516-B	200	134.5	1289	1x650 +1x815	200/134.5x3	200 x 4	6" 45	215	140	50	600	-	184.9
8-4205-B	220	134.5	1126	2x750	220/134.5x3	220 x 4	8" 42	215	140	50	700	-	127.1
8-4206-B	220	134.5	1191	2x750	220/134.5x3	220 x 4	8" 42	215	140	50	700	-	141.1
8-4208-B	220	134.5	1321	2x750	220/134.5x3	220 x 4	8" 42	215	140	50	700	-	168.4

n = quantity

l = standard length

Building Services/Domestic Water Supply

Accessories

Dimensions, weights cooling jacket pipes TWU 6...-B, 8...-B

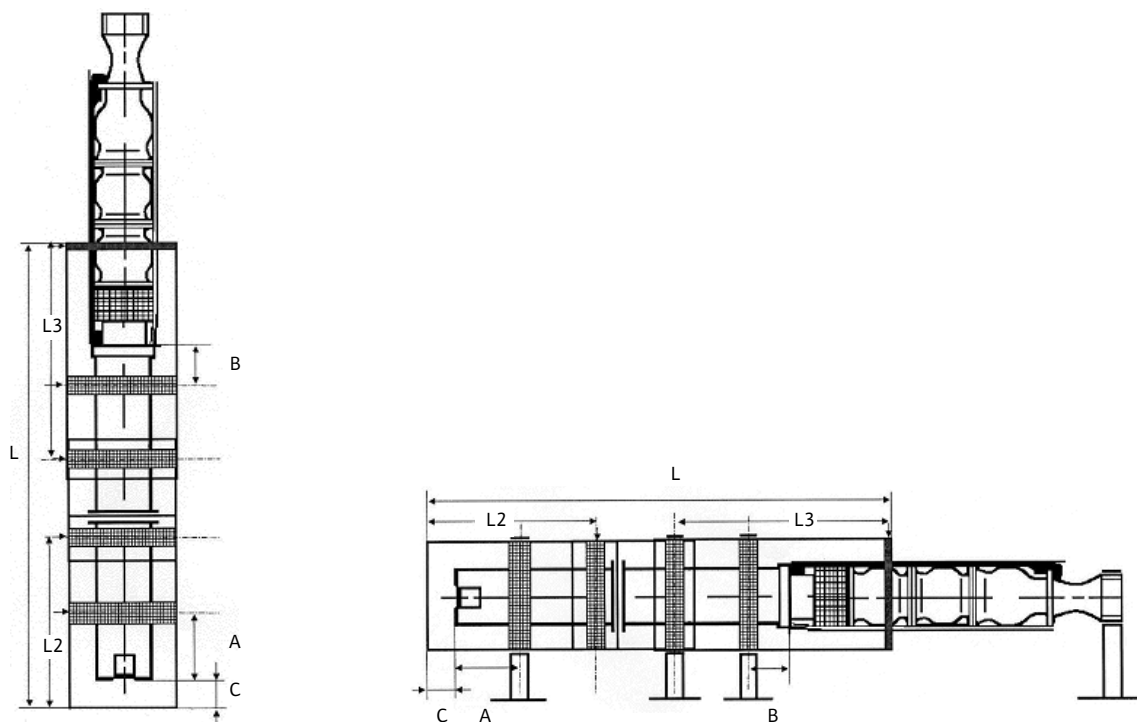
Dimensions, weight													
Wilo-TWU ...	∅ Cooling jacket pipe [mm]	∅ Motor [mm]	L = pipe length [mm]	Cooling jacket pipe (n x l)	Distance rings (∅ Pipe/Motor x n)	Pipe clamp (∅ x n)	Seal	A	B	C	L2	L3	Weight [kg]
8-4210-B	220	134.5	1689	2x1000	220/134.5x3	220 x 4	8" 42	215	140	50	950	-	208.2
8-4212-B	220	134.5	1842	2x1000	220/134.5x3	220 x 4	8" 42	215	140	50	950	-	236.2
8-4214-B	220	187	1516	1x750 +1x1000	220/187x3	220 x 4	8" 42	260	190	50	700	-	300.2
8-4219-B	220	187	1705	2x1000	220/187x3	220 x 4	8" 42	260	190	50	950	-	370.7
8-8004-B	220	134.5	1157	2x750	220/134.5x3	220 x 4	8" 80	215	140	50	700	-	128.6
8-8006-B	220	134.5	1287	2x750	220/134.5x3	220 x 4	8" 80	215	140	50	700	-	162.9
8-8008-B	220	134.5	1808	2x1000	220/134.5x3	220 x 4	8" 80	215	140	50	950	-	231.2
8-8010-B	220	187	1482	1x750 +1x1000	220/187x3	220 x 4	8" 80	260	190	50	700	-	302.2
8-8012-B	220	187	1673	2x1000	220/187x3	220 x 4	8" 80	260	190	50	950	-	360.2
8-8015-B	220	187	2025	1x750 +1x1000	220/187x4	220 x 4	8" 80	260	190	50	700	-	458.2
8-10002-B	220	134.5	1130	2x750	220/134.5x3	220 x 4	8" 100	215	140	50	700	-	112.1
8-10003-B	220	134.5	1325	2x750	220/134.5x3	220 x 4	8" 100	215	140	50	700	-	143.9
8-10004-B	220	134.5	1325	2x750	220/134.5x3	220 x 4	8" 100	215	140	50	700	-	155.4
8-10005-B	220	134.5	1846	2x1000	220/134.5x3	220 x 4	8" 100	215	140	50	950	-	215.2
8-10007-B	220	187	1518	1x750 +1x1000	220/187x3	220x4	8" 100	260	190	50	700	-	289.2
8-10008-B	220	187	1705	2x1000	220/187x3	220x4	8" 100	260	190	50	950	-	338.7

n = quantity
l = standard length

Dimensions, weights cooling jacket pipes TWU 6...-B, 8...-B

Dimension drawing

Installation with three pipes



Dimensions, weight

Wilo-TWU ...	∅ Cooling jacket pipe [mm]	∅ Motor [mm]	Pipe length L [mm]	Cooling jacket pipe (n x l)	Distance rings (∅ Pipe/Motor x n)	Pipe clamp (∅ x n)	Seal	A	B	C	L2	L3	Weight [kg]
8-10010-B	220	187	2061	2x750 +1x1000	220/187x4	220x5	8" 100	260	190	50	700	950	439.7

n = quantity

l = standard length

Building Services/Domestic Water Supply

Accessories

Mechanical accessories

Wilo kit pressure switching 0 - 16 bar



In the shunt on the kit attached to the pressure-side pipework for mounting an automatic pressure-dependent single-pump system in combination with the ER-1. switchgear. The diaphragm pressure vessel placed on top is for buffering leakages.

> Materials

Ball valve	Brass, nickel-plated
Diaphragm vessel	St37, diaphragm, food-grade

> Scope of delivery

- Red brass and/or bronze fittings
- Diaphragm pressure vessel 8 l, PN16
- Pressure gauge 0-16 bar
- Pressure switch 0-16 bar

Wilo kit pressure switching ER-2

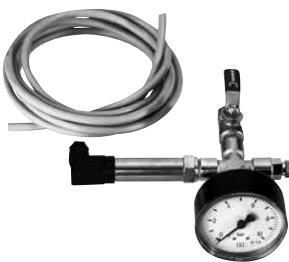


For mounting an automatic two-pump system with pressure-dependent operation. The pressure sensor measures the current pressure and provides signals which can be evaluated by the ER-2 switchgear.

> Scope of delivery/materials

Red brass and/or bronze fittings
Diaphragm pressure vessel 8 l, PN16
Pressure sensor stainless steel
4-20 mA/0-16 bar
Connection 3/4"

Wilo kit transmitter



For mounting an automatic pump system with pressure-dependent operation. The pressure recorded by the pressure sensor can be evaluated by the ER-2

> Scope of delivery

- Pressure sensor stainless steel with signal 4-20 mA
- Pressure range 0-16, 0-25 or 0-40 bar
- Red brass and/or bronze fittings
- Pressure gauge

Wilo kit low water cut-out switchgear (WMS)

(no illustration available)

Pressure switch as low-water signal transmitter for direct connection to the admission pressure line (R 3/4)

Mechanical accessories

Wilo Niro wire rope



Stainless steel rope for lowering the submersible pump into the borehole.
Recommended maximum weight load 100 kg.

> Scope of delivery

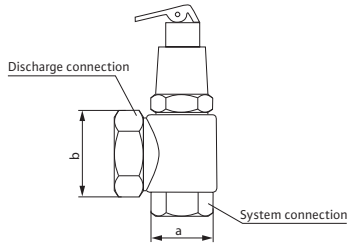
Stainless steel rope with 3 mm diameter.
Can be supplied in length increments starting with 1 m.

Wilo rope clamps



For fastening the Niro wire rope to the support hooks for the pump and for the well head.

Wilo safety valve (full-stroke safety valve)



Safety valve for protecting the system against overpressure when water supply and pressure boosting systems are utilised.
Installation as per local building codes and DIN.

Attention: Safety valves are delivered with factory settings only.
Discharge pressure 6, 10 or 16 bar. Specify when ordering.

> Technical data

Authorised fluid Water without abrasive substances
Fluid temperature maximum 130 °C
Response pressure 10 % above factory-set pressure
Discharge output: see Table

> Materials

Housing: Red brass/brass
Seal bunaN/EPDM

Overall size a	Discharge connection b		Discharge output with 10% excess pressure		
	[m ³ /h]		6 bar	10 bar	16 bar
Rp 3/4	6-10 bar	16 bar	12.9	16.6	21.0
Rp 1	Rp 1 1/4	Rp 1 1/4	9.0	13.0	37.5
Rp 1 1/4	Rp 1	Rp 1 1/4	18.9	24.4	73.5
	Rp 1 1/4	Rp 2			

Wilo air valve UBV



For ventilation and the avoidance of negative pressure in the ascending pipe.
Installation above water level (R 1 1/4, 1 1/2, 2)

> Material:

Brass

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Accessories

Mechanical accessories

Wilo drainage valve UEV



For drainage of the ascending pipe in conjunction with system operations using air domes, whereby the air in the ascending pipe is to be used for filling the air dome (R 1¹/₄, 1¹/₂, 2).

> Material:

Steel, galvanised

Wilo pressure reducer



For the prevention of pressure damage and for reducing water consumption. In addition, irritating flow noise is minimised through p = const. control.

> Version

- Housing with pressure gauge connection on both sides
- Variably adjustable by means of setting screw
- Setpoint spring
- Valve insert including diaphragms
- Fine filter (0–16 mm)
- DVGW-certified

> Technical data

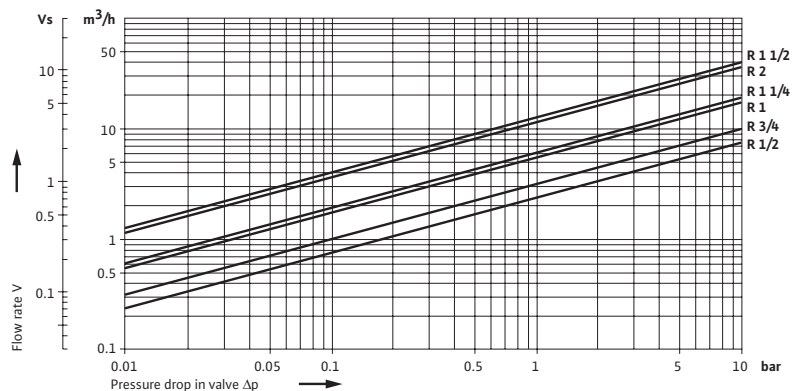
T _{max.}	40°C
Supply pressure	PN25
Minimum pressure difference	1 bar
Diaphragm load	maximum 3 bar
Nominal widths	1/2" to 2"

> Materials

Housing	Brass
Valve seat	Plastic
Screwed connections	Brass
Diaphragms	NBR (web-reinforced)
Seals	NBR
Fine sieve/screws/nuts	Rustproof steel

> Options

Pressure gauge, angle, versions for other pressures and temperatures



Mechanical accessories

Wilco float valve



Float valve for utilisation in open tanks with up to 1000 l effective volume for regulating levels. Float valve R^{1/2} as control valve in conjunction with diaphragm valve.

> Technical data

Authorised fluid Water without abrasive substances
 Fluid temperature Maximum 50°C
 Intake pressure Maximum 5 bar

> Materials

Housing Brass
 Control rod Stainless steel
 floater Plastic

Flow rate table – Weights

Nominal diameter	Supply pressure in bar					Weight
	1	2	3	4	5	
DN			m ³ /h			kg
R ^{1/2}	ca. 2.1	ca. 3.0	ca. 3.6	ca. 4.2	ca. 4.7	1.4
R ^{1 1/2}	ca. 13.5	ca. 19.0	ca. 23.0	ca. 27.0	ca. 30.0	3.5
R ²	ca. 17.4	ca. 24.6	ca. 30.0	ca. 34.8	ca. 38.9	4.9

Wilco diaphragm valve



Diaphragm valve for utilisation with open preliminary tanks starting with 1500 l effective volume for regulating levels in conjunction with a float valve R^{1/2} as control valve.

> Technical data

Authorised fluid Water without abrasive substances
 Fluid temperature Maximum 90°C
 intake pressure minimum 0.8 bar, maximum 16 bar

> Materials

Housing Cast iron, externally and internally plastic-coated
 Control rod Stainless steel

Flow rate table – Weights

Nominal diameter	Supply pressure in bar					Weight
	1	2	3	4	5	
DN			m ³ /h			kg
80	ca. 90	ca. 126	ca. 154	ca. 180	ca. 200	24
100	ca. 144	ca. 200	ca. 250	ca. 300	ca. 320	38
125	ca. 250	ca. 350	ca. 430	ca. 500	ca. 540	68

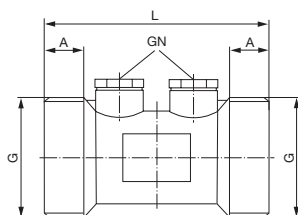
Wilco non-return valve



Non-return valve without screwed connections for utilisation in water supply applications, DVGW-certified.

> Materials

Body: MS 58
 Maximum temperature: 90°C



DN	G	L	A	GN	SW	PN
	["]	[mm]		["]	[mm]	[bar]
15	3/4	66	10	1/4	25	10
20	1	771	3	1/4	30	10
25	5/4	801	4	1/4	38	10
32	3/2	901	6	1/4	38	10
40	2	1001	7	1/4	46	10
50	5/2	1152	1	1/4	60	10

> Options

Non-return valve in 65 DN and larger.

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Accessories

Mechanical accessories

Wilo screwed connection for non-return valve

(no illustration available)

Screwed connection for non-return valve made of brass

Wilo ball valve



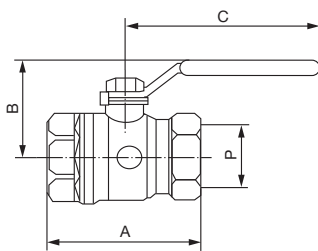
Shut-off devices for simple, safe installation and servicing of pumps, components and systems.

> Version

Ball valve with lever grip, chrome-plated brass.

Suitable for applications in the secondary hot water sector as per DIN 1988.

Ball valves up to 2" DVGW-certified.



R ["]	A	B	C [mm]	P	Kv	PN [bar]
1/4	39	26.1	042	08	6.6	42
1/2	54	33.7	078	10	10.2	42
3/4	62	45.5	096	12.7	18.45	42
1	75	49.6	096	17.5	36.3	35
5/4	84	53.7	096	22.5	73.5	35
3/2	93	68	138	28	105	35
2	107	73.5	138	35	158	35
5/2	143	101	172	45	240	28

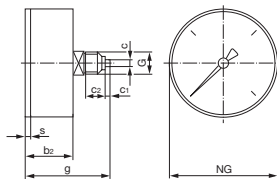
> Options

Seals in PTFE.

Wilo pressure gauge



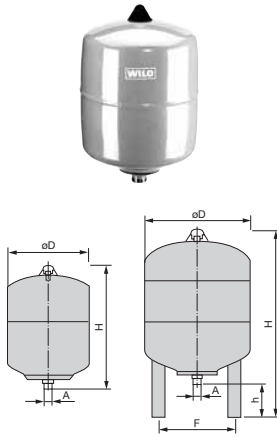
Pressure gauge for displaying the current pressure in the pipeline system.



Pressure range [bar]	NG [mm]	G ["]	c1	c2	c [mm]	b2	S	SW	g
0-6	63	1/4	3	12	5	28	3	14	53
0-10	63	1/4	3	12	5	28	3	14	53
0-16	63	1/4	3	12	5	28	3	14	53
0-25	63	1/4	3	12	5	28	3	14	53
0-40	63	1/4	3	12	5	28	3	14	53

Mechanical accessories

Wilco diaphragm pressure vessel type D



The vessels are for the purpose of avoiding pressure jolts in the system and reduce the switching frequency of the pumps/system.

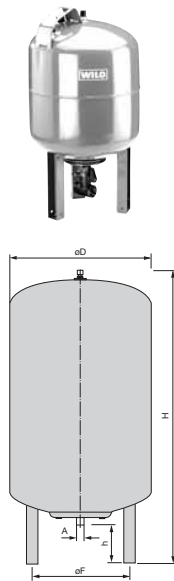
> Materials

Diaphragm vessel	RSt37-2
Diaphragms	Potable-water resistant special elastomer
Surface	Powder-coated
Water connection	Stainless steel

Attention: These pressure expansion vessels are not in conformance with DIN DIN 4807/T5 and are for that reason not authorised for utilisation in secondary hot water systems in Germany.

	Operating pressure [bar]	Effective capacity [l]	D [mm]	H [mm]	A	h [mm]	F [mm]	Weight [kg]
8 D	16	6.0	206	315	R 3/4	-	-	4.5
	25	6.0	206	315	R 3/4	-	-	5.0
12 D	16	9.0	280	293	R 3/4	-	-	6.0
18 D	11	13.5	280	370	R 3/4	-	-	7.5
25 D	10	18.7	280	490	R 3/4	-	-	9.0
33 D	10	23.5	280	690	R 3/4	110	236	11.5

Wilco diaphragm pressure vessel export version type DE



Pressure expansion vessel with replaceable diaphragms as per requirements of the Food Protection Law [Lebensmittelschutzgesetz] for utilisation in water supply systems, pressure boosting systems and sprinkling systems.

The vessels are for the purpose of avoiding pressure jolts in the system and reduce the switching frequency of the pumps/systems. All parts that come into contact with the fluid are _plastic-coated.

> Materials

Diaphragm vessel	RSt37-2
Diaphragms	Potable-water resistant special elastomer
Surface	Stove-enamel finish
T maximum	70°C (343K)

> Options

Vessel as per DIN 4807/T5 and DIN-DVGW (Reg. No. NW9481AT2535) with flow-through fixture, diaphragms as per KTW (Cat. C) and plastic coating as per KTW (Cat. B) (cf. DEA Accessories).

Attention: These pressure expansion vessels are not in conformance with DIN DIN 4807/T5 and are for that reason not authorised for utilisation in secondary hot water systems in Germany.

	Maximum effective capacity [l]	Operating pressure [bar]	D [mm]	H	A G	F [mm]	h	Weight [kg]
60 DE	45	10	480	740	1	293	160	18
80 DE	60	10	480	730	1	351	152	20
100 DE	75	10	480	834	1	351	152	25
200 DE	150	10	634	967	1 1/4	485	144	43
300 DE	225	10	634	1267	1 1/4	485	144	48
500 DE	375	10	740	1475	1 1/4	570	133	79

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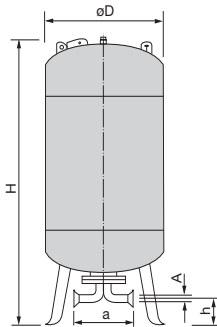
Accessories

Mechanical accessories

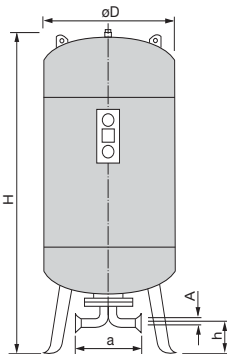
Wilo diaphragm pressure vessel



with 80, 120, 180, 300, 400 l content:



with 600, 800, 1000, 1001 l content:



Prototype-tested diaphragm pressure vessel for utilisation in conjunction with water supply systems and/or pressure boosting systems. The vessels are for the purpose of avoiding pressure jolts in the system and reduce the switching frequency of the pumps/system.

Low quantities of water extraction are compensated for by the contents of the diaphragm.

All diaphragm pressure vessels are equipped with a DUO connection as per DIN 4807.

Attention: Admission pressure-side utilisation of the diaphragm vessels is in compliance with local water supply company specifications.

> Technical data

Authorised fluid	Water without abrasive substances
Fluid temperature	Maximum 70°C
Nominal capacity	80-1000 l

> Materials

Tank	Steel
Diaphragm	Rubber, food-grade

> Available versions*

DI/DUO	Diaphragms complying with the requirements of all legislation relating to food safety, version with internal vessel coating
PN 10	Maximum operating pressure 10 bar
PN 16	Maximum operating pressure 16 bar

* other non-standard versions on request

	Effective capacity	Effective capacity				Connection **)	Tip-over Weight mass	Tip-over Weight mass	
		a	h	H	D			PN 10/PN 16	
	[l]	[mm]	[mm]	[mm]	[mm]	A	[mm]	[kg]	
80 l	60	635	185	925	450	DN 50	1038	70	78
120 l	80	635	185	1235	450	DN 50	1338	94	104
180 l	150	635	185	1515	450	DN 50	1600	108	124
300 l	225	635	200	1275	750	DN 50	1490	118	148
400 l	300	635	200	1395	750	DN 80	1590	193	228
600 l	340	635	185	1860	750	DN 80	2050	258	303
800 l	450	635	185	2260	750	DN 80	2410	283	358
1000 l	450	635	185	2760	750	DN 80	2880	358	418
1001 l	750	635	160	1955	1000	DN 80	2210	434	542

> Important:

The diaphragm pressure tanks are in compliance with the German Pressure Tank Directive (DruckbehV) of January 1994. Distribution as per testing (§ 8 DruckbehV): Group III: p L 1.0 bar and p · l L 200, although m 1000; Group IV: p L 1.0 bar and p · L 1000. Testing prior to commissioning (§ 9): Vessels are delivered with construction type authorisation or prototype testing (first-time testing) and Certificate of Conformity (classification and equipment testing). Testing of installation at the installation site is not included in the scope of delivery. It must be carried out at the behest of the generating source pursuant to § 9. Recurrent testing (§ 10): Is to be instigated by the operator and carried out pursuant to § 10.

*) Larger tanks on request

***) Other vessel connections on request

Please take into account the fact that a clearance of 500 mm must be maintained on all sides of the vessel to meet the requirements of cyclical TÜV inspections.

Electrical accessories

Wilco SK 277 (dry-running protection device)



Switchgear for wall mounting as dry-running protection for indirect connection of a pump, including 3 dip-coated electrodes as signal transmitters (ground, upper level, lower level).

> Electrical connection

Operational voltage	3~400 V, 50 Hz
	3~230 V, 50 Hz
	1~230 V, 50 Hz
Connected load	Maximum 3 kW
Protection class	IP 54
Switch cabinet material	Plastic
Dimensions (H x W x D)	165 x 110 x 128 mm

> Materials

Electrodes	V4A
Electrode sheathing	PVC
Cable length	5 m

Electrodes



As low water cut-out switchgear for indirect connection.
Cable length: 3 m, 4 m, 5 m, 10 m, 15 m, 20 m, 25 m, 30 m, 35 m, 40 m.

> Options

Greater cable lengths

Attention:

At least 2 dip-coated electrodes are required for direct connection to ER series switchgears

Wilco dip-coated electrodes (individual electrodes)



As low water cut-out switchgear for indirect connection. A suitable cable must be provided for onsite for the individual electrodes.

Attention:

At least two dip-coated electrodes are required for direct connection to ER series switchgears
Do not fail to check cable suitability for secondary hot water applications!

Wilco float switch WA 65



As low water cut-out switchgear for indirect connection
Switchpoints: **up On, down Off.**

> Materials

Float:	Plastic
Cable:	H07RN-F
	(not permitted for secondary hot water)
Fluid temperature:	Maximum 65°C
[m]Cable length:	5, 10, 20, 30

Float switch WA 65 additionally with small switchgear (with shockproof plug and socket) for connecting an AC pump with shockproof plug.

Electrical accessories

Wilco float switch WAEK 65



Same as WA 65 although with small switchgear EK, applicable for pumps with single-phase AC motors with up to 1 kW nominal power.

Wilco float switch WAO 65



To be utilised when the actuated pump conveys into a vessel, above the level of which switching is to take place.

Switchpoints: **up Off, down On**. Utilisation for pumps with AC. Up to 1 kW nominal power.

> Materials

Float:	Plastic
Cable:	H07RN-F
(not permitted for secondary hot water)	
Fluid temperature:	Maximum 65 °C
[m]Cable length:	5, 10, 20, 30

Wilco float switch WAOEK 65



To be utilised when the actuated pump conveys into a vessel, above the level of which switching is to take place.

Switchpoints: **up Off, down On**. Utilisation for pumps with AC. Up to 1 kW nominal power.

> Materials

Float:	Plastic
Cable:	H07RN-F
(not permitted for secondary hot water)	
Fluid temperature:	Maximum 65 °C
[m]Cable length:	20

Electrical accessories

Wilо kit motor cable for motors 4"



Factory-wired cable kit for simple connection with the pump motor.

> Scope of delivery

Flat cable with plug connection on the motor end and bare cable on the switch box end. Can be supplied in lengths of 15 m, 25 m, 35 m, 45 m for 1~230 V and 3~400 V.



> Wilо motor cable

For freely selectable extension of the cable attached to the pump motor. Suitable for utilisation in secondary hot water. Flexible copper cable class E as per NFC 32-013/IEC 228.

> Scope of delivery

Flat cable with stripped cable ends. Can be supplied in length increments starting with 1 m.

Insulation: Polyethylene

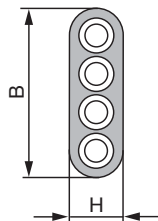
Temperature limits:

In water to +50 °C

Exposed to air -20 to +50°C

> Option

Cable with PVC insulation.



∅	B (± 0.3 mm)	H (± 0.3 mm)
4 x 1.5 mm ²	15.8 mm	5.0 mm
4 x 2.5 mm ²	19.5 mm	5.6 mm
4 x 4.0 mm ²	21.5 mm	6.5 mm
4 x 6.0 mm ²	23.6 mm	7.2 mm
4 x 10.0 mm ²	29.1 mm	8.8 mm
4 x 16.0 mm ²	35.3 mm	10.4 mm

Wilо kit motor cable for motors 6"

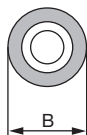


Factory-wired cable kit for simple connection with the pump motor.

> Scope of delivery

Flat cable with plug connection on the motor end and bare cable on the switch box end. Can be supplied in lengths of 10 m, 20 m, 30 m, 40 m and 50 m; Suitable for utilisation in secondary hot water.

Wilо earth cable



Single-wire cable as earth cable with rubber coating for continuous utilisation in water. KTW-approved for utilisation in secondary hot water.

∅	B (±0.3 mm)
1 x 8.4 mm ²	8.9 mm
1 x 25 mm ²	13 mm

Building Services/Domestic Water Supply

Accessories

Electrical accessories

Wilo motor cable for TWU 4-...-QC pumps



Factory-wired cable set for simple extension of the motor cable of the TWU 4-...-QC pumps.

> Scope of delivery

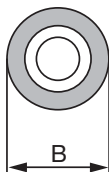
Flat cable with plug connections.

Can be supplied in lengths of 10 m, 20 m, 30 m, 50 m, 80 m, 100 m.

Cable binders for fixing the motor cable to the water supply line.

Safety rope (polypropylene, 6mm).

Wilo motor cable for secondary hot water



For freely selectable extension of the cable attached to the pump motor. Suitable for utilisation in secondary hot water. Flexible copper cable class E in accordance with ACS 04 ACC LI 021, NF C 15-100-AD8, BS 6920, IEC 60332-1.

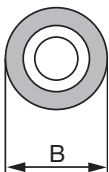
> Scope of delivery

Round cable with stripped cable ends. Can be supplied in length increments starting with 1 m.

Insulation: PVC
 Temperature limits:
 In water to + 40°C
 exposed to air to + 70°C

Ø	B (+/-0.5mm)	Weight
4 x 1.5 mm ²	11.0 mm	163 kg/km
4 x 2.5 mm ²	12.9 mm	245 kg/km
4 x 4.0 mm ²	14.7 mm	340 kg/km
4 x 6.0 mm ²	16.9 mm	455 kg/km
4 x 10.0 mm ²	20.0 mm	680 kg/km
4 x 16.0 mm ²	23.0 mm	950 kg/km
3 x 1.5 mm ²	10.0 mm	135 kg/km
3 x 2.5 mm ²	11.8 mm	175 kg/km
3 x 4.0 mm ²	13.4 mm	250 kg/km
3 x 6.0 mm ²	15.0 mm	352 kg/km
3 x 10.0 mm ²	16.0 mm	475 kg/km
3 x 16.0 mm ²	20.0 mm	685 kg/km

Wilo motor cable for process water



For freely selectable extension of the cable attached to the pump motor. Flexible copper wire class E.

> Scope of delivery

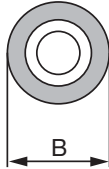
Round cable with stripped cable ends. Can be supplied in length increments starting with 1 m.

Insulation: Ethylene - Propylene - Rubber (EPR)
 Temperature limits:
 In water to + 50 °C
 exposed to air to + 70 °C

Ø	B (+/- 1 mm)	Weight
4 x 4.0 mm ²	15.0 mm	388 kg/km
4 x 6.0 mm ²	17.0 mm	520 kg/km
4 x 10.0 mm ²	22.5 mm	930 kg/km
4 x 16.0 mm ²	27.0 mm	1300 kg/km
4 x 25.0 mm ²	31.5 mm	1880 kg/km
4 x 35.0 mm ²	35.5 mm	2450 kg/km
4 x 50.0 mm ²	41.0 mm	3380 kg/km
4 x 70.0 mm ²	45.5 mm	4450 kg/km
4 x 95.0 mm ²	52.5 mm	5830 kg/km
4 x 120.0 mm ²	57.0 mm	7100 kg/km
3 x 25.0 mm ²	28.5 mm	1500 kg/km
3 x 35.0 mm ²	32.0 mm	1970 kg/km
3 x 50.0 mm ²	37.0 mm	2700 kg/km
3 x 70.0 mm ²	41.0 mm	3520 kg/km

Electrical accessories

Wilo PT100 probe cable (for motors 4")



For freely selectable extension of the PT100 temperature sensor built into the pump motor. Not suitable for utilisation in secondary hot water.

> Scope of delivery

Round cable with stripped cable ends. Can be supplied in length increments starting with 1 m.

Insulation: PVC
 Temperature limits:
 In water to + 50°C
 exposed to air to + 70°C

∅	B (+/- 1 mm)	Weight
4 x 1.0 mm ²	9.5 mm	170 kg/km

Wilo PT100 sensor for motors 6"

no illustration available

Threaded PT100 for thermal motor monitoring, suitable for later connection to 6" motors.

Wilo heat shrink cable sleeve



For connecting two open cable ends.

> Scope of delivery

Kit comprising 4 shrinkdown plastic tubing coupling sleeves with accessories. Available for cable cross-sections 4 x 1.5 mm² to 4 x 25 mm².

Wilo kit motor cable connector



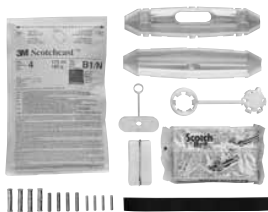
For secure quick-plug connection of motor cable and cable extension.

Attention: Motor cable needs to be already equipped with a plug.

> Scope of delivery

Kit comprising a coupling component, 2-component sealing resin and small parts. Available for cable cross-sections 4 x 1.5 mm².

Wilo spillage kit



For safe connection of two open cable ends located under water.

> Scope of delivery

Kit comprising 2 plastic half-shells and a 2-component sealing resin, in addition to 4 cable clamps.

Available for cable cross-sections 4 x 4 mm² to 4 x 10 mm², 4 x 16 mm², 4 x 35 mm², 4 x 70 mm², 4 x 120 mm² and 4 x 180 mm².

Electrical accessories

Wilo ER-1 single pump switchgear



Fully automatic switchgear for wall-mounted installation for the operation of a pump with one drive motor with maximum current consumption as per the following Table.

> Electrical connection

Type	Starting mode	I_{max}
ER-1-4.0	Δ	10.0 A
ER-1-5.5	Δ	14.0 A
ER-1-7.5	Δ	18.5 A
ER-1-11.0	Δ	24.0 A
ER-1-15.0	Δ	32.0 A
ER-1-18.5	Δ	39.0 A
ER-1-22.0	Δ	46.0 A
ER-1-5.5	Y Δ	14.0 A
ER-1-7.5	Y Δ	18.5 A
ER-1-11.0	Y Δ	24.0 A
ER-1-15.0	Y Δ	32.0 A
ER-1-18.5	Y Δ	39.0 A
ER-1-22.0	Y Δ	46.0 A

Other sizes upon request

> Pump switching

Pressure switch (WVA kit)

or WA065 float switch

> Low water cut-out

WMS pressure switch

or WA65 float switch

or dip-coated electrodes (2 pcs. required)

or switchbox SK277

including 3 dip-coated electrodes

> Equipment

- Built-in electronic motor protection
- Triggering of protection against low water level
- Main switch 4-pole
- Selector switch Manual-0-Automatic
- Run and fault indicator lights
- Potential-free collective fault signal and collective run signal
- Switch-off delay variable 0 - 120 sec.
- Built-in test run function
- Housing material: plastic starting with 5.5 kW. Steel sheeting, powder-coated
- Protection class: IP41 starting at 5.5 kW IP54
- Dimensions: on request

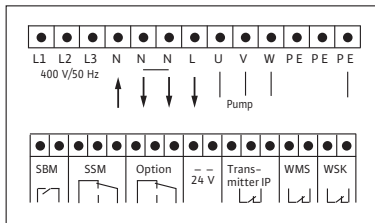
> Options

All switchgears also available in:

NR version (with finely calibrate level relay triggering) and/or

SS version (Smooth start-up device).

Terminal diagram



Electrical accessories

Wilo ER-2 double pump switchgear



Fully automatic switchgear for wall-mounted installation for the operation of two pumps with one drive motor each with maximum current consumption as per the following Table.

> Electrical connection

Type	Starting mode	I_{max}
ER-2-4.0	Δ	2 x 10.0 A
ER-2-5.5	Δ	2 x 14.0 A
ER-2-7.5	Δ	2 x 18.5 A
ER-2-9.0	Δ	2 x 24.0 A
ER-2-11.0	Δ	2 x 32.0 A
ER-2-15.0	Δ	2 x 39.0 A
ER-2-22.0	Δ	2 x 46.0 A
ER-2-5.5	$Y\Delta$	2 x 14.0 A
ER-2-7.5	$Y\Delta$	2 x 18.5 A
ER-2-9.0	$Y\Delta$	2 x 24.0 A
ER-2-11.0	$Y\Delta$	2 x 32.0 A
ER-2-15.0	$Y\Delta$	2 x 39.0 A
ER-2-22.0	$Y\Delta$	2 x 46.0 A

Other sizes upon request

> Pump switching

Pressure transmitter (0-16, 0-25 - or 0-40 bar)

> Low water cut-out

- WMS pressure switch
- or WA65 float switch
- or dip-coated electrodes (2 pcs. required)
- or switchbox SK277 including 3 dip-coated electrodes

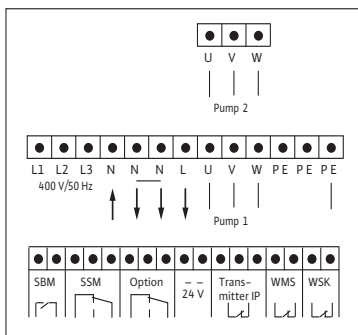
> Equipment

- Built-in electronic motor protection for each pump
- Triggering of protection against low water level
- Main switch 4-pole
- Selector switch Manual-0-Automatic for each pump
- Operation and fault signal light for each pump
- Potential-free collective fault signal and collective run signal
- Switch-off delay variable 0-120 sec.
- Integrated test run function (can be deactivated)
- Housing material: plastic starting with 5.5 kW steel sheeting, powder-coated
- Protection class: IP41 starting at 5.5 kW IP54
- Dimensions: on request

> Options

All switchgears also available in:
 NR version (with finely calibrate level relay triggering) and/or
 SS version (Smooth start-up device).

Terminal diagram



- The type of current and the voltage of the mains connection are to be checked (3~400 V/ 50 Hz/60 Hz as per IEC 38).
 The shape of the mains connection voltage curve as per VDE 0160 must be maintained in order to ensure perfect electrical operating conditions.
- The data listed on the name plate of the pump motor to be activated are to be observed.
- The mains connection cable is dependent on the number of pumps and on local regulations. VDE and EVU directives and local requirements must all be complied with.
- The connection line is to be placed in such a way that it can under no circumstances come into contact with the pipeline and/or the pump and motor housing.

- For maximum back-up fuses, see Table.
- For motor connection cable, see Table. Specification of the minimum cross-section as per VDE VDE 0100/Part 430, electrical load capacity of cables and lines with PVC insulation and placement type for B2 for +30 °C ambient temperature.
- Motor and sensor cables must be shielded.
 Take care to ensure that the cable shields are correctly connected.

Back-up fuse:

- K: Automatic cut-out
- gl: Fusible link
- Bearing configuration: -10°C to +60°C

Electrical accessories

Switchbox ESK 1

Switchbox PSK 1



Fig.: Switchbox PSK 1

Control devices for connecting a pump for supplying water from boreholes and cisterns (for single-family and multi-family houses), including 2 dip-coated electrodes and 4 holders for wall mounting.

Connection options for 2 dip-coated electrodes and 1 pressure switch/float switch. Can be used with 1~230 V and 3~400 V. With integrated motor protection, suitable for wall mounting.

> Technical data

Operational voltage	1~230 V or 3~230/400 V
Frequency:	50/60 Hz
Protection class:	IP 54
Perm. ambient temperature:	-10°C to +55°C
Maximum current consumption ESK 1:	1-12 A
Maximum current consumption PSK 1:	10-23 A
Dimensions (W x H x D):	300 x 195 x 105
Weight:	2.5 kg (ESK 1) 2.8 kg (PSK 1)

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Wilо-EMU 6" series

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Wilо-EMU 8" series

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Wilо-EMU 10" series and larger

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Accessories

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Water Supply Municipal/Industrial

Planning guide

Electrical connection

Line measurement												
Line cross-section	[mm ²]	1.5	2.5	4	6	10	16	25	35	50	70	95
Single-wire line												
Direct activation/starting transformer	[A]	–	–	–	–	111	149	197	244	304	376	453
Star/delta activation	[A]	–	–	–	–	192	257	340	422	525	650	783
	[mm]	–	–	–	–	11	13.1	15.2	17.4	18.5	20.8	23
	[kg/m]	–	–	–	–	0.18	0.255	0.36	0.485	0.67	0.89	1.2
Multi-wire lines with 3 and 4 wires												
Direct activation/starting transformer	[A]	23	30	41	53	74	99	131	162	202	250	301
Star/delta activation	[A]	40	52	71	92	128	171	227	280	350	433	521
	[mm]	10.6	12.8	14.7	16	21.4	25.9	31	35.3	40.6	45.1	50
	[kg/m]	0.14	0.20	0.285	0.37	0.665	1.02	1.46	1.99	2.72	3.47	4.2
	[mm]	12	13.9	16.1	18.4	23.9	28.8	34	38.8	44.6	49.8	55
	[kg/m]	0.175	0.25	0.355	0.47	0.81	1.26	1.87	2.50	3.42	4.56	5.7
	[mm]	–	8.1x 16.4	–	–	–	–	–	–	–	–	–
	[kg/m]	–	0.18	–	–	–	–	–	–	–	–	–
	[mm]	7.3x 18.4	8.3x 21.4	9.3x 25.5	10.5x 28.6	14.5x 36.4	16.9x 44.3	–	–	–	–	–
	[kg/m]	0.175	0.25	0.345	0.47	0.81	1.21	–	–	–	–	–
Multi-wire lines with 7 wires												
Star/delta activation	[A]	28	36	–	–	–	–	–	–	–	–	–
	[mm]	17.1	18.9	–	–	–	–	–	–	–	–	–
	[kg/m]	0.37	0.51	–	–	–	–	–	–	–	–	–

Permissible maximum water temperature: 60°C

Permissible constant load as per VDE with 30°C ambient and 90°C conductor temperature

Nominal voltage $U_0/U = 450/750$ V; laid in protection tube or well 600/1000 V

In addition, the VDE regulations relating to line placement, short-circuit current and ambient temperature are to be complied with for the selection of the cross-section.

All cables are BAM-tested (BAM = Bundesanstalt für Materialprüfung)

Tolerance for line dimensions: –10 %

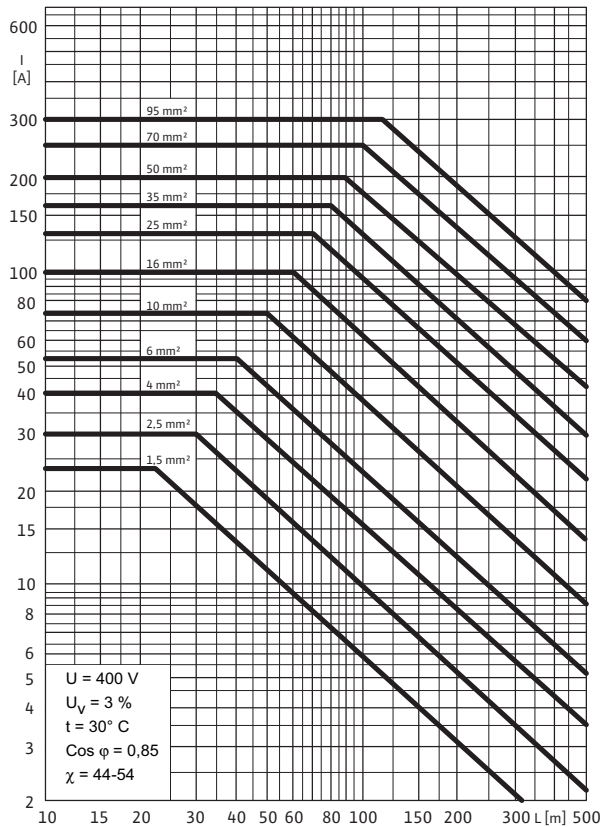
Electrical connection

Authorised constant load for the power lines with higher ambient temperatures

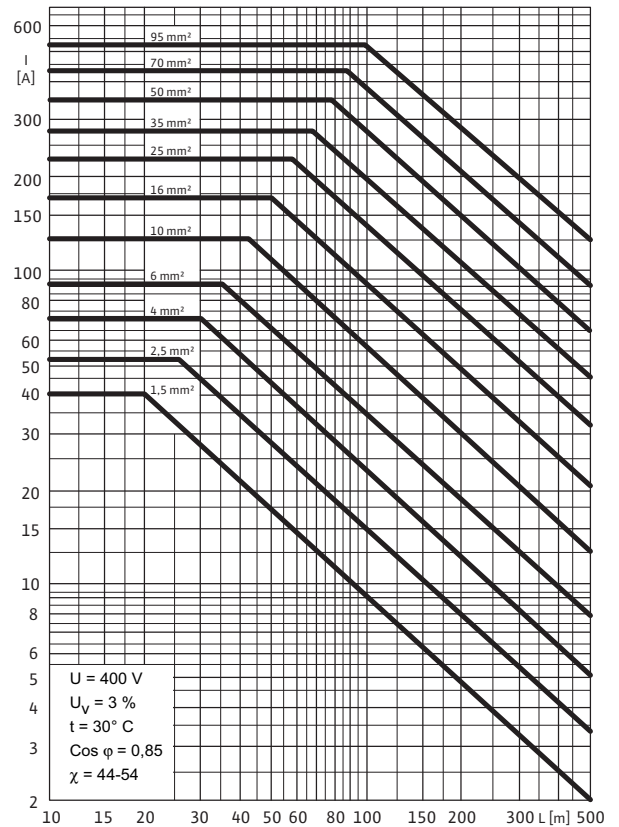
Temperature range [°C]	31...35	36...40	41...45	46...50	51...55	56...60
Constant load [%]	96	91	87	82	76	65

Calculation of the line cross-section for three-phase current

Direct activation with multi-wire line



Star/delta activation with multi-wire line



Calculations:

Voltage loss U_V :

$$U_V = \frac{C \times I \times L \times \cos \varphi}{A \times U} [\%]$$

Power loss P_V :

$$P_V = \frac{U_V}{\cos \varphi^2} [\%]$$

Cable length for other voltages:

$$L = \frac{400}{U} \times L_k [m]$$

Legend:

$A [mm^2]$ = line cross-section

C = Direct activation and starting transformer: 3.1
Direct activation, 2 lines parallel: 1.55
Star/delta activation: 2.1

$I [A]$ = nominal current

$L [m]$ = simple line length

$L_k [m]$ = current cable length

$P_V [\%]$ = power dissipation

$U [V]$ = operational voltage

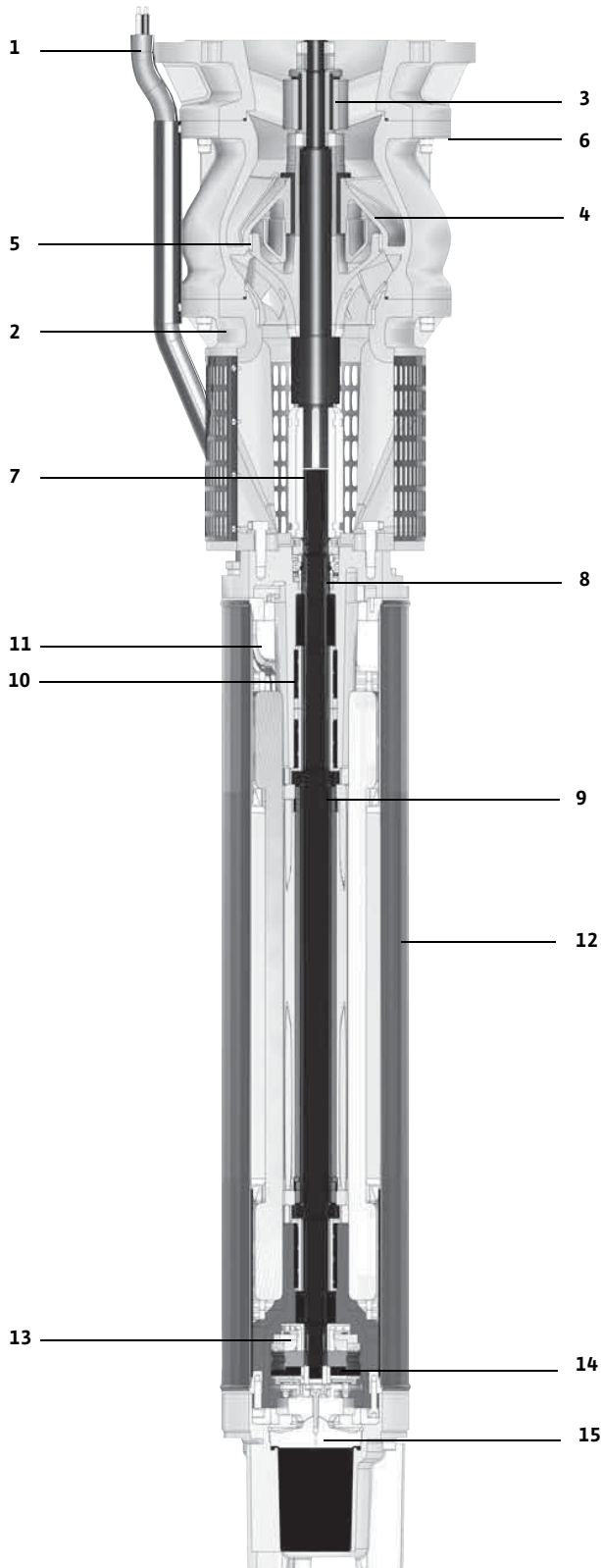
$U_V [\%]$ = voltage loss

$\cos \varphi$ = power factor for I

When determining the line cross-section, it must be taken into account that the voltage drop U_V may not amount to more than 3 %!

Mounting a Wilo-EMU pump

Technical construction



1 Flow feed line

With KTW authorisation for secondary hot water.

2 Screwed connections

Rapid and inexpensive dismantling using screwed connections made of rust-free steel.

3 Rubber bushing

Assumes the function of a highly wear-resistant end bearing. High resistance against sand and vibrations.

4 Impellers

Wear-resistant impellers made of high-quality cast bronze. Precise power adjustment possible by means of trimming the semi-axial impellers.

5 Stationary wear ring

Made of special bronze are wear-resistant and readily replaceable, making them inexpensive in terms of operating costs.

6 Housing

Made of cast iron in standard version, of zinc-free bronze in special version.

7 Pump connection

For unproblematic connection of motors with NEMA (6" and 8") and standard connection.

8 Motor shaft sealing

Mechanical seal made of highly wear-resistant silicon carbide for long service life.

9 Pump and motor shafts

Areas with contact to the fluid always in rust-free steel; this results in high resistance to wear and corrosion, as well as a long service life.

10 Bushing

Double bushing made of special artificial carbon with spiral grooves for cooling and lubrication.

11 Motor monitoring

Possibility of temperature monitoring in the motor.

12 Motor casing

Made of rust-free steel or zinc-free bronze, depending on the type and version.

13 Counter axial bearing

For absorption of the negative axial thrust.

14 Axial bearing

Friction-type bearing lubrication by means of motor filling, with independent tilting segments or single-speed bearing for the absorption of high axial loads.

15 Compensating diaphragm

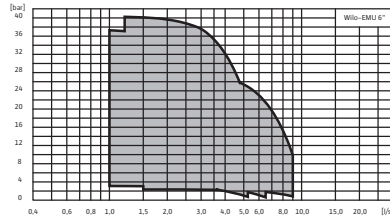
Volume compensation during warming or cooling of the motor filling.

Mounting a Wilo-EMU pump

Water Supply Municipal/Industrial

Series overview Wilo-EMU 6"-, 8"- and 10" series and larger

Series: Wilo-EMU 6" series

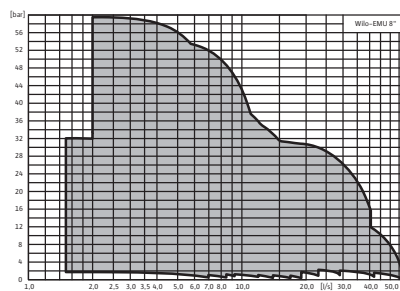


> Submersible motor pump

- Pumping clean water with a maximum temperature of up to 20°C
- No long-fibre constituents
- Well diameter at least 150 mm
- Maximum installation depth 300 m
- Municipal water supply
- Sprinkling and irrigation
- Pressure boosting
- Lowering the ground water level
- Industrial applications
- Fountains, snow cannons and water organs.



Series: Wilo-EMU 8" series

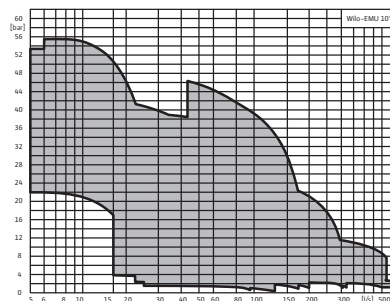


> Submersible motor pump

- Pumping clean water with a maximum temperature of up to 20°C
- No long-fibre constituents
- Well diameter at least 200 mm
- Maximum installation depth 300 m
- Municipal water supply
- Sprinkling and irrigation
- Pressure boosting
- Lowering the ground water level
- Industrial applications
- Offshore installations
- Utilisation of geothermal energy



Series: Wilo-EMU 10" series and larger



> Submersible motor pump

- Pumping clean water with a maximum temperature of up to 20°C
- No long-fibre constituents
- Well diameter at least 250 mm
- Maximum installation depth 300 m
- Municipal water supply
- Sprinkling and irrigation
- Pressure boosting
- Lowering the ground water level
- Industrial applications
- Offshore installations
- Utilisation of geothermal energy



Series overview Wilo-EMU 6"-, 8"- and 10" series and larger

Series: Wilo-EMU 6" series

> Product advantages:

- Water pumping from great depths
- Vertical and horizontal installation
- Corrosion-free and wear-resistant due to housing made of Ni-Alu bronze and impellers made of Noryl
- Integrated non-return valve
- Standard and rewindable motors possible (6")

> Additional information:

- Series description 212

Page

Series: Wilo-EMU 8" series

> Product advantages:

- Water pumping from great depths
- Vertical and horizontal installation
- Impellers in Noryl or in zinc-free bronze
- Wear-resistant Gi bushing (model-related)
- Integrated non-return valve (model-related)
- Special-order materials possible
- Standard and rewindable motors
- Simple servicing due to stage construction
- Impellers can be adapted to individual duty points (model-dependent)

> Additional information:

- Series description 262

Page

Series: Wilo-EMU 10" series and larger

> Product advantages:

- Water pumping with large volume flows
- Vertical and horizontal installation
- Corrosion-resistant impellers in zinc-free bronze
- Special-order materials possible
- Rewindable motors
- Wear-resistant Gi bushings
- Impellers can be adapted to individual duty points
- 4-pole version for long service life and high efficiency
- CoolAct motors for high performance densities
- High voltage up to 6000 V possible

> Additional information:

- Series description 376

Page

Water Supply Municipal/Industrial



Wilо-EMU 6" series

Single pumps

Wilо-EMU 6" series

Series description	212
Wilо-EMU NK 62	216
Wilо-EMU NK 63	232
Wilо-EMU NK 64	248

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Series description Wilo-EMU 6" series



Wilo-EMU 6" series

Submersible pumps

Type key hydraulics:

Example: **NK 63-17**

- NK** = Submersible hydraulics
- 6** = Hydraulics diameter
- 3** = Installation size
- 17** = Stage number

Type key motor:

Example: **NU 60-2/32**

- NU** = Submersible motor
- 60** = Installation size (4... = 4" installation size, 5.../6... = 6" installation size)
- 2** = Number of poles
- 32** = Unit length

Application:

Pure water unit for pumping clean water with a maximum temperature up to 20 °C, without long-fibre components, from wells with a minimum diameter of 150 mm, suitable for a maximum installation depth of 300 m.

Application areas in municipal water supply, for sprinkling and irrigation, pressure boosting, lowering of the groundwater level, industrial applications and off-shore installations, for use of geothermal energy as well as for fountains, snow cannons and water organs.

Higher temperatures of the fluid on request.

Horizontal installation is possible depending on the type and stages.

Construction

Hydraulics

Hydraulics in single or multistage construction with radial stage construction. The housings are made of NiAl bronze. The impellers are made of Noryl plastics. The suction piece is located between the hydraulics and the motor which is made with vertical slots for the pro-

tection against heavily contaminated fluid. The pressure outlet has an integrated non-return valve and a pressure port with thread connection.

Motor

The motor shroud is made of stainless steel A2/A4 quality. Three-phase motor for direct or star/delta start. The motor is connected according to NEMA standard. The shaft is sealed on the motor side with a mechanical seal with SiC/SiC combination or with rotary shaft seals (4" motor). Special materials are possible on request. All motors are suitable for a frequency converter operation (SF 1.1).

Cooling

The motor is cooled by the fluid and the required flow speed. In addition, all motors are filled with a water-glycol mixture from the manufacturer as standard. The motors of the NU 6... series can alternatively be filled with secondary hot water (T version).

Pressure shroud

For pressure boosting in the pipeline system the unit can be installed in a pressure shroud. This version does not have a non-return valve as standard. The max. inlet pressure is at 10 bar. The construction of the pressure shroud is standardised.

Optional

- Special materials
- 60Hz variant
- Cooling jacket pipe for vertical and horizontal installation
- Bearing brackets and anti-rotation plate for the horizontal installation
- Length of the power cable upon customer demand

Series description Wilo-EMU 6" series

Technical data

Wilo-EMU...	Control area for frequency converter*	Max. fluid temperature	Min. flow rate at the motor	Cable length
	[Hz]	[°C]	[m/s]	[m]
NU 4...	30-50	30	0.10	upon customer demand
NU 5...	30-50	30	0.16	upon customer demand
NU 60...	25-50	20	0.10	upon customer demand

* Application of a sine filter or 10 % power reserve in relation to the max. shaft power P_w

Material pump

Wilo-EMU...	Version	Suction piece	Housing	Pressure port	RVF	Impeller	Diffuser	Shaft	Screwed connection
NK 62, NK 63, NK 64	A	–	–	–	–	–	–	–	–
	C	NiAl-Bz	NiAl-Bz	–	NiAl-Bz	Noryl	Noryl	1.4122	A2

Material motor

Wilo-EMU...	Version	Housing	Motor shroud	Shaft	Screwed connection
NU 4...	A	1.4301	1.4301	1.4305	A2
	C	1.4401	1.4571	1.4542	A4
NU 501	A	EN-GJL	1.4301	1.4305	A2
	C	1.4408	1.4571	1.4542	A4
NU 60 / 601	B	NiAl-Bz	1.4301	1.4057	A2
	D	NiAl-Bz	1.4571	1.4462	A2

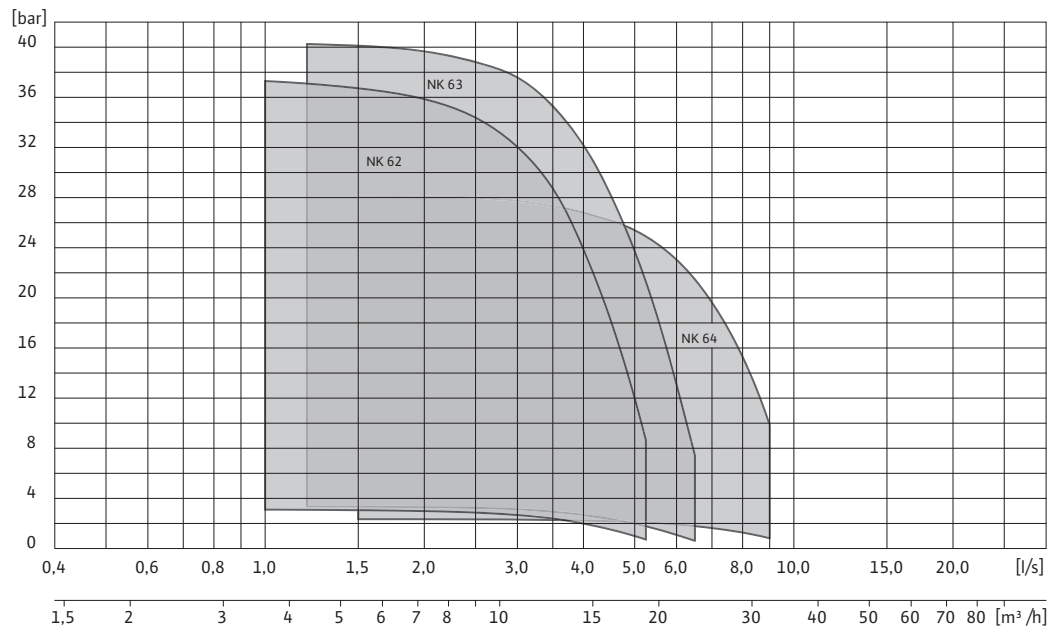
The Drinking Water Ordinance and the respective approved technical rules are to be considered for the use of cast iron in the potable water installation!

Water Supply Municipal/Industrial

Wilco-EMU 6" series

Series description Wilco-EMU 6" series

Overview pump curve Wilco-EMU 6" series





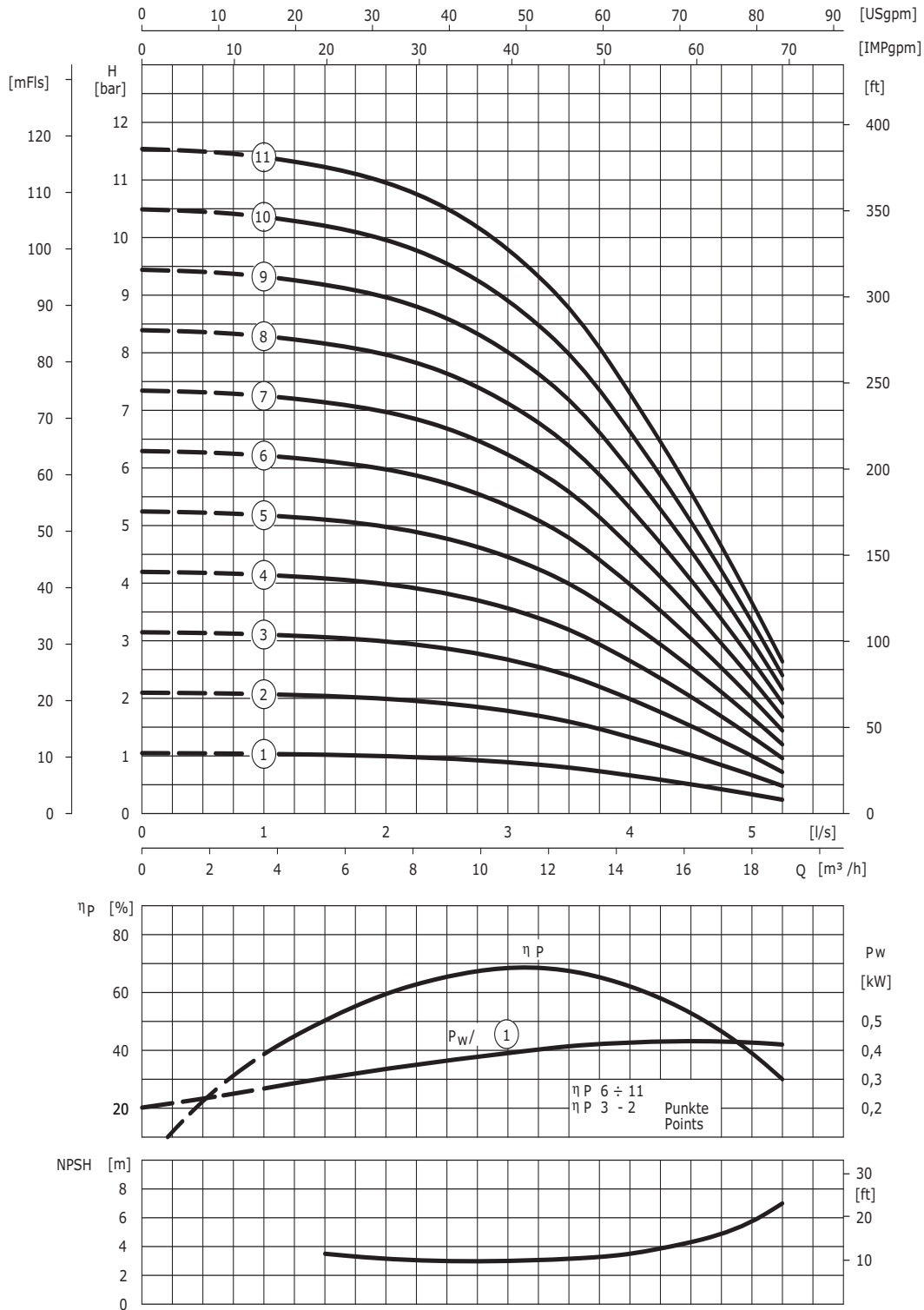
Series description Wilo-EMU 6" series

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Pump curves Wilo-EMU NK 62

Wilo-EMU NK 62



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 62

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I_W	
				[kW]	[A]	[kW]	[A]	
NK 62-1	1	A	NU 431-2/6	0.55	1.60	0.45	1.45	V+H
NK 62-2	2	A	NU 431-2/11	1.10	3	0.90	2.60	V+H
NK 62-3	3	A	NU 431-2/15	1.50	4	1.40	3.80	V+H
NK 62-4	4	A	NU 431-2/22	2.20	5.90	1.85	5.30	V+H
NK 62-5	5	A	NU 431-2/22	2.20	5.90	2.20	5.90	V+H
NK 62-6	6	A	NU 431-2/30	3.00	7.80	2.75	7.30	V+H
NK 62-7	7	A	NU 431-2/37	3.70	9.10	3.20	8	V+H
NK 62-8	8	A	NU 60-2/23	5.50	12.20	3.60	9	V+H
NK 62-8	8	A	NU 431-2/37	4.00	9.10	3.60	8.90	V+H
NK 62-9	9	A	NU 60-2/23	5.50	12.20	4.10	9.90	V+H
NK 62-9	9	A	NU 431-2/40	5.50	10	4	10	V+H
NK 62-10	10	A	NU 60-2/23	5.50	12.20	4.50	10.50	V+H
NK 62-10	10	A	NU 431-2/55	5.50	13.70	4.50	11.80	V+H
NK 62-10	10	A	NU 501-2/5	5.50	12.50	4.50	10.80	V+H
NK 62-11	11	A	NU 60-2/23	5.50	12.20	5	11.40	V+H
NK 62-11	11	A	NU 431-2/55	5.50	13.70	5	12.50	V+H
NK 62-11	11	A	NU 501-2/5	5.50	12.50	5	11.50	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN_1	PN_1						L	max. ϕ
				[mm]	[bar]						[mm]	[mm]
NK 62...	G 2	I	10-40	5)	5)	5)	5)	1	-	-		
	G 3	I	10-40	5)	5)	5)	5)	1	-	-		

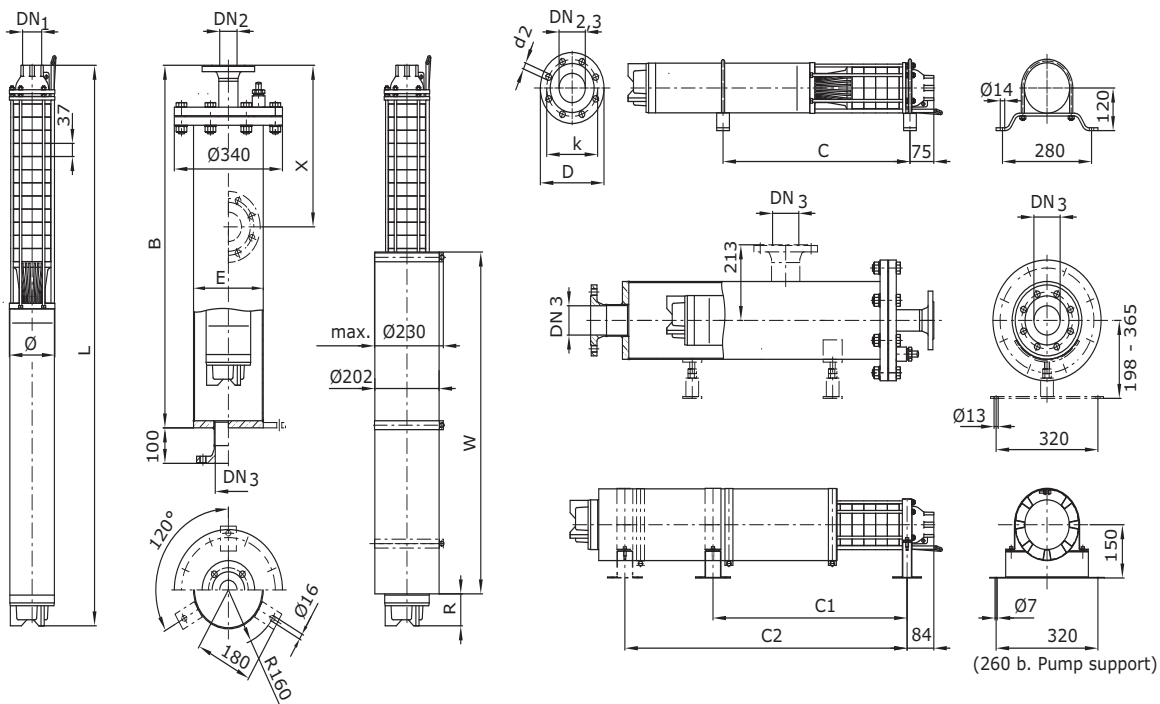
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Dimensions, weights Wilo-EMU NK 62

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 62-1	NU 431-2/6	1050	300	219.1	490	143	14.6	60
NK 62-2	NU 431-2/11	1050	350	219.1	583	143	17.9	60
NK 62-3	NU 431-2/15	1050	410	219.1	649	143	19.9	60
NK 62-4	NU 431-2/22	1050	460	219.1	714	143	22.0	60
NK 62-5	NU 431-2/22	1050	500	219.1	751	143	22.8	60
NK 62-6	NU 431-2/30	1350	610	219.1	940	143	29.4	65
NK 62-7	NU 431-2/37	1350	660	219.1	1017	143	32.9	65
NK 62-8	NU 60-2/23	1650	800	219.1	1208	143	58.0	70
NK 62-8	NU 431-2/37	1350	700	219.1	1054	143	33.7	65
NK 62-9	NU 60-2/23	1650	840	219.1	1245	143	59.0	70
NK 62-9	NU 431-2/40	1650	760	219.1	1127	143	36.2	70
NK 62-10	NU 60-2/23	1650	880	219.1	1282	143	60.0	70
NK 62-10	NU 431-2/55	1650	850	219.1	1278	143	42.4	70
NK 62-10	NU 501-2/5	1650	840	219.1	1227	143	54.0	70
NK 62-11	NU 60-2/23	1650	910	219.1	1319	143	60.0	70
NK 62-11	NU 431-2/55	1650	890	219.1	1315	143	43.1	70
NK 62-11	NU 501-2/5	1650	880	219.1	1264	143	55.0	70

Accessories Wilo-EMU NK 62

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4...	–	6 038 560	6 001 712	6 038 325
NU 6...	–	6 038 562	6 001 440	1)
NU 501	–	6 038 562	6 001 440	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		–		[mm]				
NK 62-1	NU 431-2/6	6 042 335	6 041 870	350	307	–	–	13
NK 62-2	NU 431-2/11	6 042 335	6 041 870	350	372	–	–	69
NK 62-3	NU 431-2/15	6 042 337	6 041 872	425	423	–	–	23
NK 62-4	NU 431-2/22	6 042 337	6 041 872	425	474	–	–	51
NK 62-5	NU 431-2/22	6 042 337	6 041 872	425	511	–	–	51
NK 62-6	NU 431-2/30	6 042 373	6 042 328	650	624	–	–	15
NK 62-7	NU 431-2/37	6 042 373	6 042 328	650	682	–	–	16
NK 62-8	NU 60-2/23	6 042 361	6 041 898	815	814	–	–	81
NK 62-8	NU 431-2/37	6 042 373	6 042 328	650	719	–	–	16
NK 62-9	NU 60-2/23	6 042 361	6 041 898	815	851	–	–	81
NK 62-9	NU 431-2/40	6 042 373	6 042 328	650	773	–	–	54
NK 62-10	NU 60-2/23	6 042 361	6 041 898	815	888	–	–	81
NK 62-10	NU 431-2/55	6 042 373	6 042 328	650	867	–	–	168
NK 62-10	NU 501-2/5	6 042 356	6 041 893	650	861	–	–	117
NK 62-11	NU 60-2/23	6 042 361	6 041 898	815	925	–	–	81
NK 62-11	NU 431-2/55	6 042 373	6 042 328	650	904	–	–	168
NK 62-11	NU 501-2/5	6 042 356	6 041 893	650	898	–	–	117

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 62...	G 2 I	–	–	10-40	–	–	–	–	–
	G 3 I	–	–	10-40	–	–	–	–	–
	–	DN 50	–	–	10-40	–	4x18	125	165
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

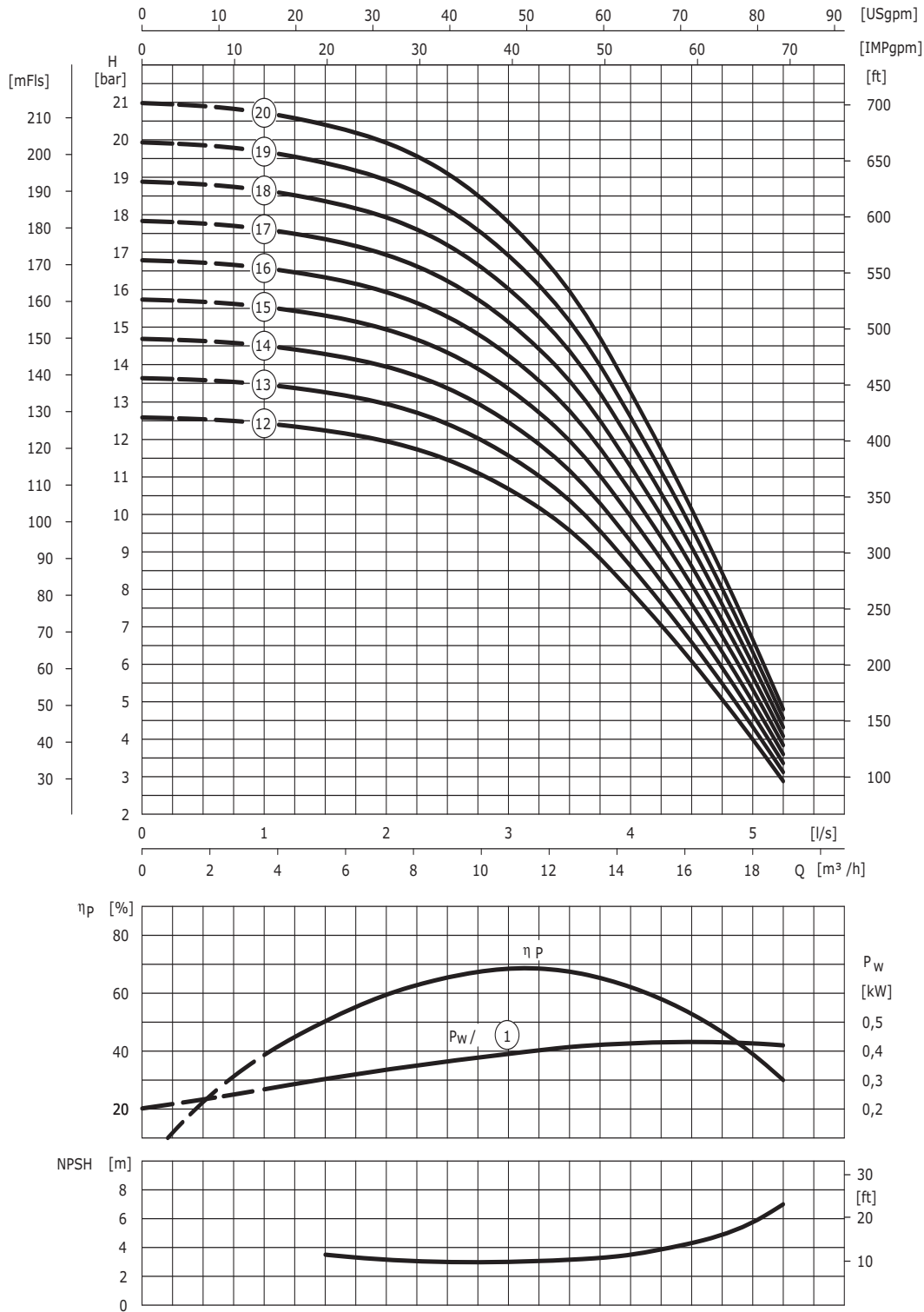
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Pump curves Wilo-EMU NK 62

Wilo-EMU NK 62



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 62

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I_W	
				[kW]	[A]	[kW]	[A]	
NK 62-12	12	A	NU 60-2/23	5.50	12.20	5.40	12.10	V+H
NK 62-12	12	A	NU 431-2/55	5.50	13.70	5.40	13.10	V+H
NK 62-12	12	A	NU 501-2/5	5.50	12.50	5.40	12.10	V+H
NK 62-13	13	A	NU 60-2/24	9.00	19.80	5.90	14.60	V+H
NK 62-13	13	A	NU 501-2/9	7.50	16	5.90	13.40	V+H
NK 62-14	14	A	NU 60-2/24	9.00	19.80	6.30	15.20	V+H
NK 62-14	14	A	NU 501-2/7	7.50	16	6.30	14	V+H
NK 62-15	15	A	NU 60-2/24	9.00	19.80	6.80	16	V+H
NK 62-15	15	A	NU 501-2/7	7.50	16	6.80	14.80	V+H
NK 62-16	16	A	NU 60-2/24	9.00	19.80	7.30	16.80	V+H ¹⁾
NK 62-16	16	A	NU 501-2/7	7.50	16	7.30	15.60	V+H ¹⁾
NK 62-17	17	A	NU 60-2/24	9.00	19.80	7.70	17.40	V+H ¹⁾
NK 62-17	17	A	NU 501-2/7	7.50	16	7.50	16	V+H ¹⁾
NK 62-18	18	A	NU 60-2/24	9.00	19.80	8.10	18.10	V+H ¹⁾
NK 62-18	18	A	NU 501-2/9	9.30	20.70	8.10	19.20	V+H ¹⁾
NK 62-19	19	A	NU 60-2/24	9.00	19.80	8.60	19	V+H ¹⁾
NK 62-19	19	A	NU 501-2/9	9.30	20.70	8.60	19.70	V+H ¹⁾
NK 62-20	20	A	NU 60-2/24	9.00	19.80	9	19.80	V+H ¹⁾
NK 62-20	20	A	NU 501-2/9	9.30	20.70	9	20.50	V+H ¹⁾

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN_1	PN_1						L	max. ϕ
				[mm]	[bar]						[mm]	[kg]
NK 62...	G 2	I	10-40	5)	5)	5)	5)	1	-	-		
	G 3	I	10-40	5)	5)	5)	5)	1	-	-		

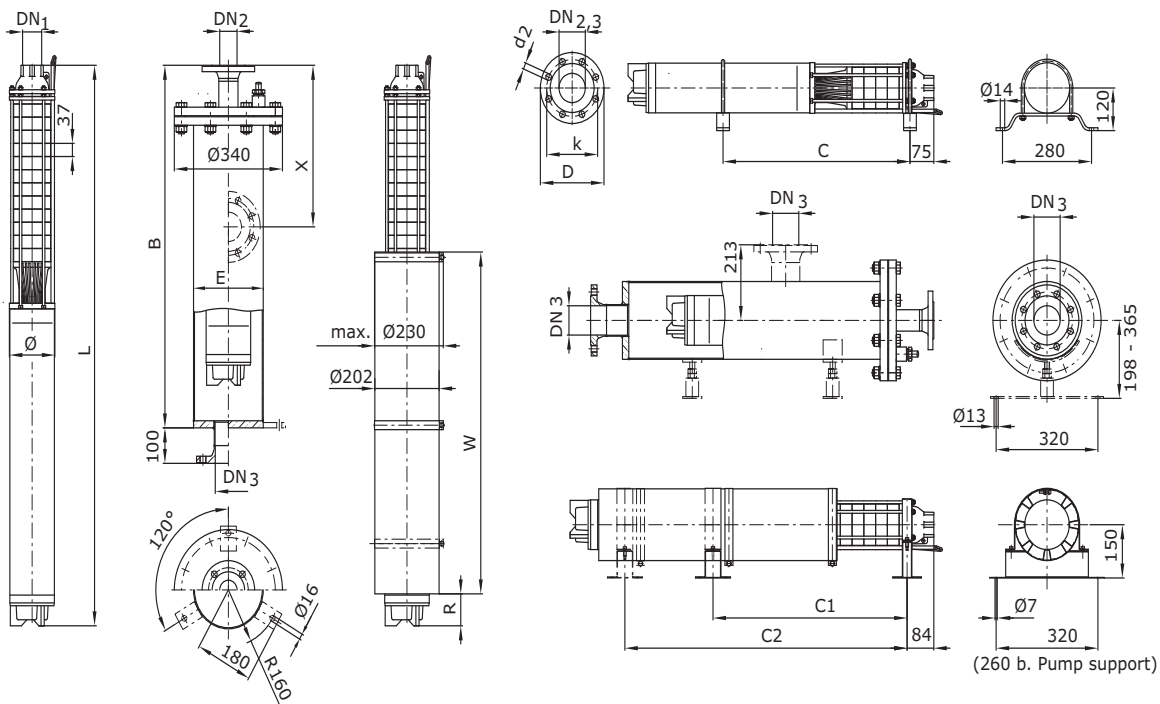
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Dimensions, weights Wilo-EMU NK 62

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
NK 62-12	NU 60-2/23	1650	950	219.1	1356	143	61.0	70
NK 62-12	NU 431-2/55	1650	920	219.1	1352	143	43.8	70
NK 62-12	NU 501-2/5	1650	920	219.1	1301	143	55.0	70
NK 62-13	NU 60-2/24	1650	990	219.1	1393	143	62.0	70
NK 62-13	NU 501-2/9	1650	970	219.1	1369	143	60.0	70
NK 62-14	NU 60-2/24	1950	1030	219.1	1430	143	63.0	75
NK 62-14	NU 501-2/7	1950	1010	219.1	1406	143	61.0	75
NK 62-15	NU 60-2/24	1950	1060	219.1	1467	143	63.0	75
NK 62-15	NU 501-2/7	1950	1050	219.1	1443	143	62.0	75
NK 62-16	NU 60-2/24	1950	1.)	219.1	1504	143	64.0	75
NK 62-16	NU 501-2/7	1950	1.)	219.1	1480	143	62.0	75
NK 62-17	NU 60-2/24	1950	1.)	219.1	1541	143	65.0	75
NK 62-17	NU 501-2/7	1950	1.)	219.1	1517	143	63.0	75
NK 62-18	NU 60-2/24	1950	1.)	219.1	1578	143	66.0	75
NK 62-18	NU 501-2/9	1950	1.)	219.1	1587	143	66.0	75
NK 62-19	NU 60-2/24	1950	1.)	219.1	1615	143	67.0	75
NK 62-19	NU 501-2/9	1950	1.)	219.1	1624	143	67.0	75
NK 62-20	NU 60-2/24	2250	1.)	219.1	1652	143	67.0	80
NK 62-20	NU 501-2/9	2250	1.)	219.1	1661	143	68.0	80

Accessories Wilo-EMU NK 62

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4...	–	6 038 560	6 001 712	6 038 325
NU 6...	–	6 038 562	6 001 440	1)
NU 501	–	6 038 562	6 001 440	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
	–	–			[mm]			
NK 62-12	NU 60-2/23	6 042 361	6 041 898	815	962	–	–	81
NK 62-12	NU 431-2/55	6 042 373	6 042 328	650	941	–	–	168
NK 62-12	NU 501-2/5	6 042 356	6 041 893	650	935	–	–	117
NK 62-13	NU 60-2/24	6 042 361	6 041 898	815	999	–	–	81
NK 62-13	NU 501-2/9	6 042 356	6 041 893	650	987	–	–	148
NK 62-14	NU 60-2/24	6 042 361	6 041 898	815	1036	–	–	81
NK 62-14	NU 501-2/7	6 042 356	6 041 893	650	1024	–	–	148
NK 62-15	NU 60-2/24	6 042 361	6 041 898	815	1073	–	–	81
NK 62-15	NU 501-2/7	6 042 356	6 041 893	650	1061	–	–	148
NK 62-16	NU 60-2/24	–	6 041 898	815	–	–	–	81
NK 62-16	NU 501-2/7	–	6 041 893	650	–	–	–	148
NK 62-17	NU 60-2/24	–	6 041 898	815	–	–	–	81
NK 62-17	NU 501-2/7	–	6 041 893	650	–	–	–	148
NK 62-18	NU 60-2/24	–	6 041 898	815	–	–	–	81
NK 62-18	NU 501-2/9	–	6 041 889	815	–	–	–	53
NK 62-19	NU 60-2/24	–	6 041 898	815	–	–	–	81
NK 62-19	NU 501-2/9	–	6 041 889	815	–	–	–	53
NK 62-20	NU 60-2/24	–	6 041 898	815	–	–	–	81
NK 62-20	NU 501-2/9	–	6 041 889	815	–	–	–	53

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 62...	G 2 l	–	–	10-40	–	–	–	–	–
	G 3 l	–	–	10-40	–	–	–	–	–
	–	DN 50	–	–	10-40	–	4x18	125	165
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

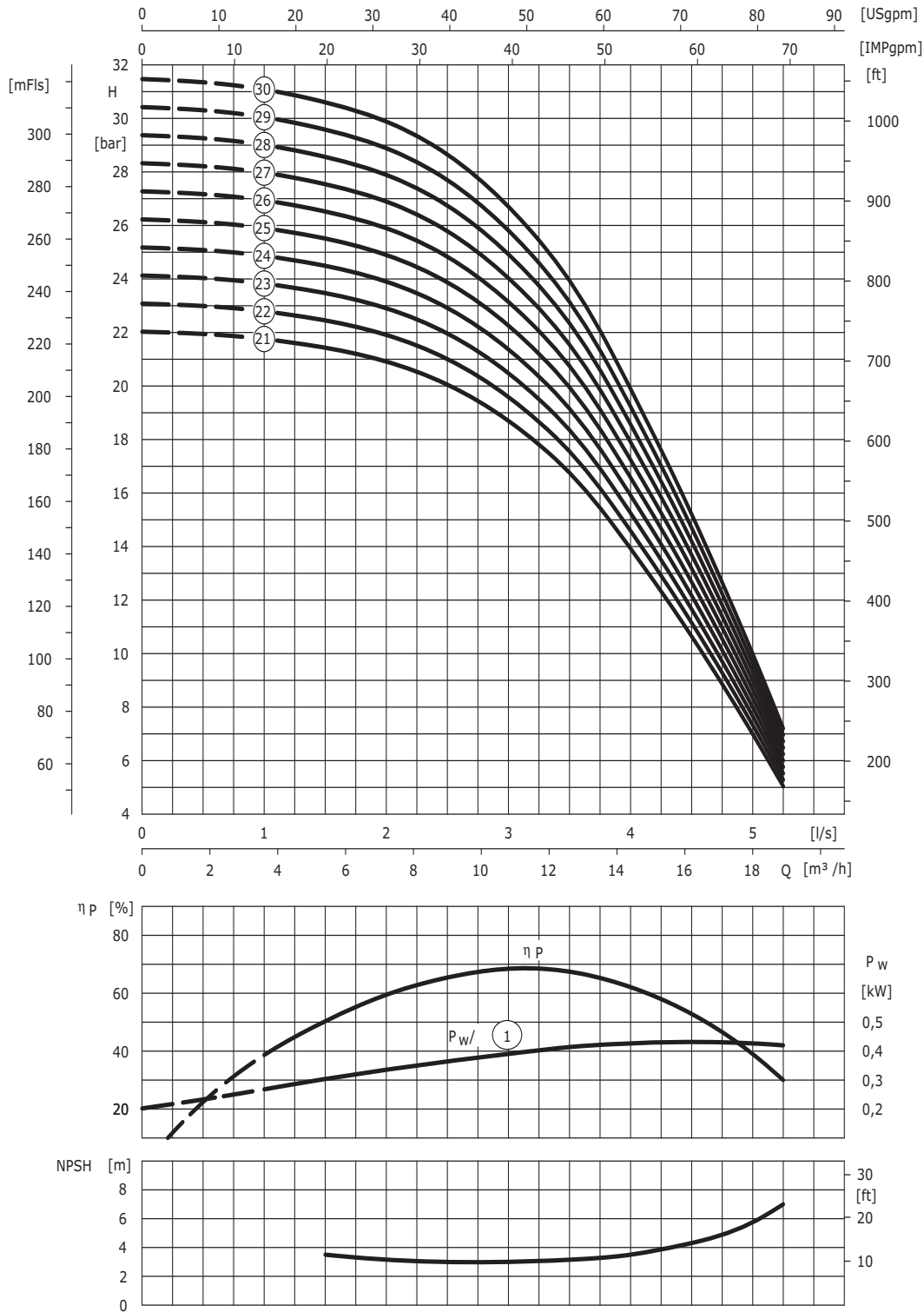
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Pump curves Wilo-EMU NK 62

Wilo-EMU NK 62



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 62

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _W	I	
				[kW]	[A]	[kW]	[A]	
NK 62-21	21	A	NU 60-2/32	12.50	27.50	9.50	21.50	V
NK 62-21	21	A	NU 501-2/9	9.30	20.70	9.30	20.70	V
NK 62-22	22	A	NU 60-2/32	12.50	27.50	9.90	22.50	V
NK 62-22	22	A	NU 501-2/11	11.00	23.30	9.90	22	V
NK 62-23	23	A	NU 60-2/32	12.50	27.50	10.40	23	V
NK 62-23	23	A	NU 501-2/11	11.00	23.30	10.40	22.50	V
NK 62-24	24	A	NU 60-2/32	12.50	27.50	10.80	24	V
NK 62-24	24	A	NU 501-2/11	11.00	23.30	10.80	23	V
NK 62-25	25	A	NU 60-2/32	12.50	27.50	11.30	25	V
NK 62-25	25	A	NU 501-2/11	15.00	23.30	11	23.30	V
NK 62-26	26	A	NU 60-2/32	12.50	27.50	11.70	25.50	V
NK 62-26	26	A	NU 501-2/15	15.00	31.30	11.70	26.50	V
NK 62-27	27	A	NU 60-2/32	12.50	27.50	12.20	26.50	V
NK 62-27	27	A	NU 501-2/15	15.00	31.30	12.20	27	V
NK 62-28	28	A	NU 60-2/32	12.50	27.50	12.50	27.50	V
NK 62-28	28	A	NU 501-2/15	15.00	31.30	12.60	27.50	V
NK 62-29	29	A	NU 60-2/40	15.50	32.50	13.10	28.50	V
NK 62-29	29	A	NU 501-2/15	15.00	31.30	13.10	28.50	V
NK 62-30	30	A	NU 60-2/40	15.50	32.50	13.50	29.50	V
NK 62-30	30	A	NU 501-2/15	15.00	31.30	13.50	29	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
				DN ₁	max. ø					
				[mm]	[mm]					
NK 62...	G 2	I	10-40	5)	5)	5)	5)	1	-	-
	G 3	I	10-40	5)	5)	5)	5)	1	-	-

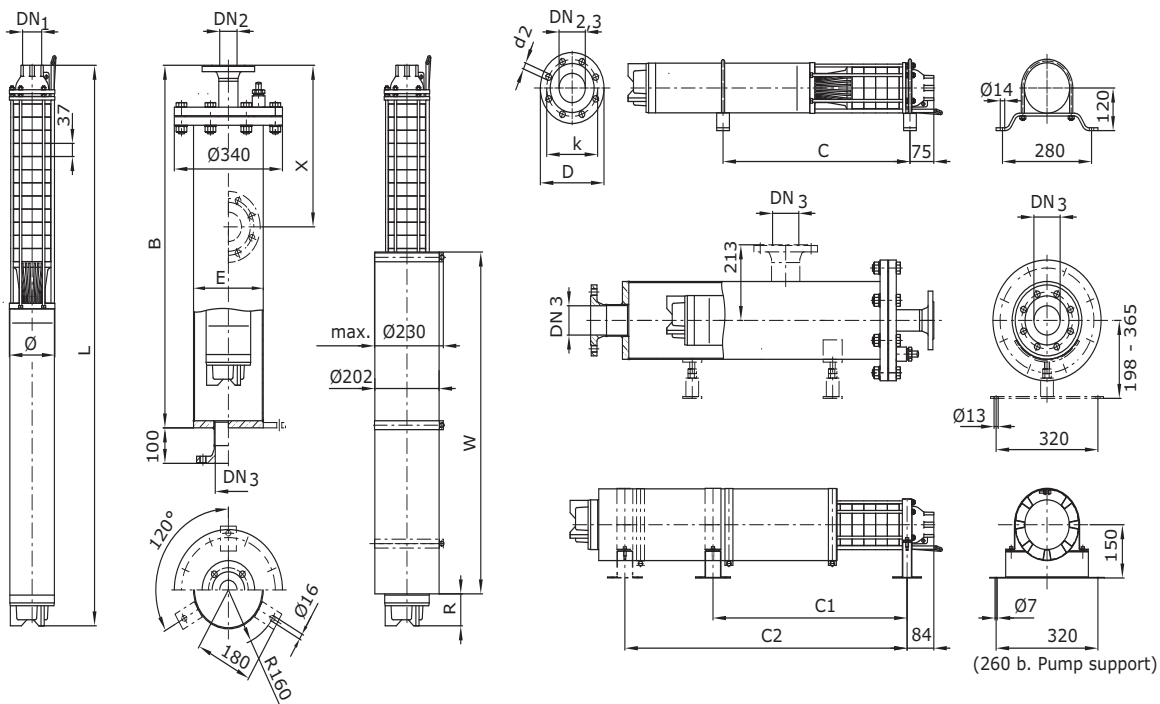
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Dimensions, weights Wilo-EMU NK 62

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 62-21	NU 60-2/32	2250	-	219.1	1769	143	76.0	80
NK 62-21	NU 501-2/9	2250	-	219.1	1698	143	69.0	80
NK 62-22	NU 60-2/32	2250	-	219.1	1806	143	77.0	80
NK 62-22	NU 501-2/11	2250	-	219.1	1767	143	72.0	80
NK 62-23	NU 60-2/32	2250	-	219.1	1843	143	77.0	80
NK 62-23	NU 501-2/11	2250	-	219.1	1804	143	73.0	80
NK 62-24	NU 60-2/32	2250	-	219.1	1880	143	78.0	80
NK 62-24	NU 501-2/11	2250	-	219.1	1841	143	74.0	80
NK 62-25	NU 60-2/32	2250	-	219.1	1917	143	79.0	80
NK 62-25	NU 501-2/11	2250	-	219.1	1875	143	75.0	80
NK 62-26	NU 60-2/32	2550	-	219.1	1954	143	79.0	84
NK 62-26	NU 501-2/15	2550	-	219.1	1980	143	81.0	84
NK 62-27	NU 60-2/32	2550	-	219.1	1991	143	80.0	84
NK 62-27	NU 501-2/15	2550	-	219.1	2017	143	82.0	84
NK 62-28	NU 60-2/32	2550	-	219.1	2028	143	81.0	84
NK 62-28	NU 501-2/15	2550	-	219.1	2054	143	83.0	84
NK 62-29	NU 60-2/40	2550	-	219.1	2145	143	89.0	84
NK 62-29	NU 501-2/15	2550	-	219.1	2091	143	84.0	84
NK 62-30	NU 60-2/40	2550	-	219.1	2182	143	90.0	84
NK 62-30	NU 501-2/15	2550	-	219.1	2128	143	84.0	84

Accessories Wilo-EMU NK 62

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4...	–	6 038 560	6 001 712	6 038 325
NU 6...	–	6 038 562	6 001 440	1)
NU 501	–	6 038 562	6 001 440	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		–		[mm]				
NK 62-21	NU 60-2/32	–	6 041 898	815	–	–	–	87
NK 62-21	NU 501-2/9	–	6 041 889	815	–	–	–	16
NK 62-22	NU 60-2/32	–	6 041 898	815	–	–	–	87
NK 62-22	NU 501-2/11	–	6 041 889	815	–	–	–	85
NK 62-23	NU 60-2/32	–	6 041 898	815	–	–	–	87
NK 62-23	NU 501-2/11	–	6 041 889	815	–	–	–	85
NK 62-24	NU 60-2/32	–	6 041 898	815	–	–	–	87
NK 62-24	NU 501-2/11	–	6 041 889	815	–	–	–	85
NK 62-25	NU 60-2/32	–	6 041 898	815	–	–	–	87
NK 62-25	NU 501-2/11	–	6 041 889	815	–	–	–	48
NK 62-26	NU 60-2/32	–	6 041 898	815	–	–	–	87
NK 62-26	NU 501-2/15	–	6 041 889	815	–	–	–	113
NK 62-27	NU 60-2/32	–	6 041 898	815	–	–	–	87
NK 62-27	NU 501-2/15	–	6 041 889	815	–	–	–	113
NK 62-28	NU 60-2/32	–	6 041 889	815	–	–	–	87
NK 62-28	NU 501-2/15	–	6 041 889	815	–	–	–	113
NK 62-29	NU 60-2/40	–	6 042 321	925	–	–	–	57
NK 62-29	NU 501-2/15	–	6 041 889	815	–	–	–	113
NK 62-30	NU 60-2/40	–	6 042 321	925	–	–	–	57
NK 62-30	NU 501-2/15	–	6 041 889	815	–	–	–	113

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 62...	G 2 I	–	–	10-40	–	–	–	–	–
	G 3 I	–	–	10-40	–	–	–	–	–
	–	DN 50	–	–	10-40	–	4x18	125	165
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

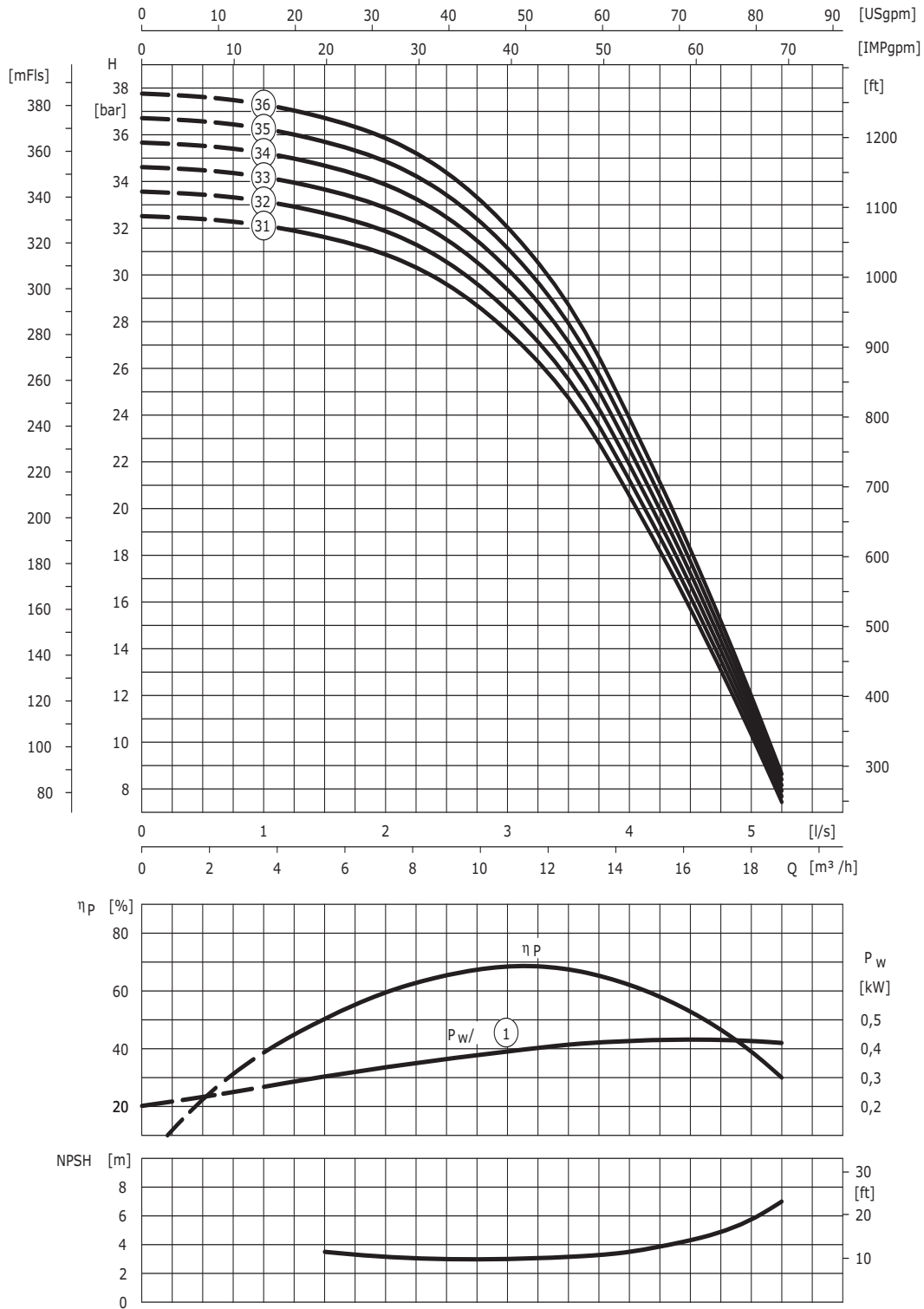
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Pump curves Wilo-EMU NK 62

Wilo-EMU NK 62



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 62

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I	
				[kW]	[A]	[kW]	[A]	
NK 62-31	31	A	NU 60-2/40	15.50	32.50	14	30	V
NK 62-31	31	A	NU 501-2/15	15.00	31.30	14	30	V
NK 62-32	32	A	NU 60-2/40	15.50	32.50	14.40	30.50	V
NK 62-32	32	A	NU 501-2/15	15.00	31.30	14.40	30.50	V
NK 62-33	33	A	NU 60-2/40	15.50	32.50	14.90	31.50	V
NK 62-33	33	A	NU 501-2/15	15.00	31.30	14.90	31.30	V
NK 62-34	34	A	NU 60-2/40	15.50	32.50	15.30	32	V
NK 62-34	34	A	NU 501-2/15	15.00	31.30	15	31.30	V
NK 62-35	35	A	NU 60-2/40	15.50	32.50	15.50	32.50	V
NK 62-35	35	A	NU 501-2/18	18.50	38.50	15.80	34.50	V
NK 62-36	36	A	NU 60-2/51	21.00	44.50	16.20	35.50	V
NK 62-36	36	A	NU 501-2/18	18.50	38.50	16.20	35	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN_1	PN_1						L	max. ϕ
				[mm]	[bar]						[mm]	[kg]
NK 62...	G 2	I	10-40	5)	5)	5)	5)	1	-	-		
	G 3	I	10-40	5)	5)	5)	5)	1	-	-		

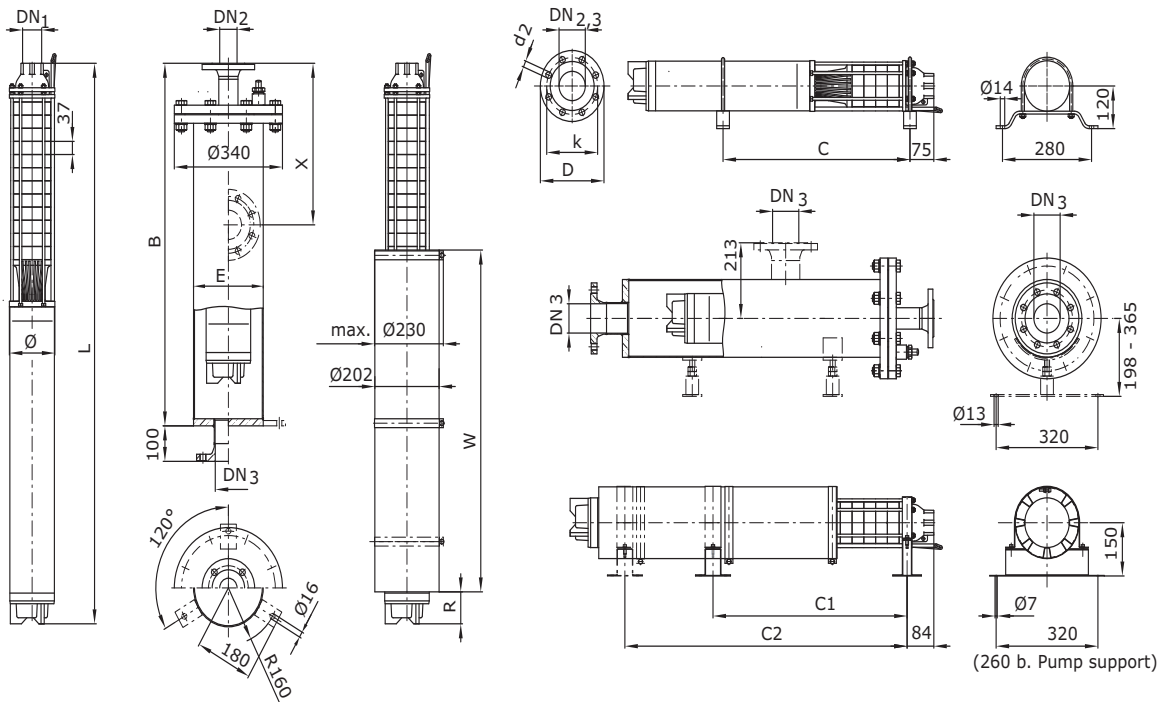
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Dimensions, weights Wilo-EMU NK 62

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 62-31	NU 60-2/40	2550	-	219.1	2219	143	91.0	84
NK 62-31	NU 501-2/15	2550	-	219.1	2165	143	84.0	84
NK 62-32	NU 60-2/40	2850	-	219.1	2265	143	92.0	89
NK 62-32	NU 501-2/15	2550	-	219.1	2202	143	86.0	84
NK 62-33	NU 60-2/40	2850	-	219.1	2293	143	93.0	89
NK 62-33	NU 501-2/15	2850	-	219.1	2239	143	87.0	89
NK 62-34	NU 60-2/40	2850	-	219.1	2330	143	93.0	89
NK 62-34	NU 501-2/15	2850	-	219.1	2276	143	87.0	89
NK 62-35	NU 60-2/40	2850	-	219.1	2367	143	94.0	89
NK 62-35	NU 501-2/18	2850	-	219.1	2379	143	95.0	89
NK 62-36	NU 60-2/51	2850	-	219.1	2504	143	105.0	89
NK 62-36	NU 501-2/18	2850	-	219.1	2416	143	95.0	89

Accessories Wilo-EMU NK 62

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4...	–	6 038 560	6 001 712	6 038 325
NU 6...	–	6 038 562	6 001 440	1)
NU 501	–	6 038 562	6 001 440	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
	–	–			[mm]			
NK 62-31	NU 60-2/40	–	6 042 321	925	–	–	–	57
NK 62-31	NU 501-2/15	–	6 041 889	815	–	–	–	113
NK 62-32	NU 60-2/40	–	6 042 321	925	–	–	–	57
NK 62-32	NU 501-2/15	–	6 041 889	815	–	–	–	113
NK 62-33	NU 60-2/40	–	6 042 321	925	–	–	–	57
NK 62-33	NU 501-2/15	–	6 041 889	815	–	–	–	113
NK 62-34	NU 60-2/40	–	6 042 321	925	–	–	–	57
NK 62-34	NU 501-2/15	–	6 041 889	815	–	–	–	113
NK 62-35	NU 60-2/40	–	6 042 321	925	–	–	–	57
NK 62-35	NU 501-2/18	–	6 041 882	925	–	–	–	69
NK 62-36	NU 60-2/51	–	6 042 319	1000	–	–	–	82
NK 62-36	NU 501-2/18	–	6 041 882	925	–	–	–	69

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 62...	G 2 I	–	–	10-40	–	–	–	–	–
	G 3 I	–	–	10-40	–	–	–	–	–
	–	DN 50	–	–	10-40	–	4x18	125	165
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

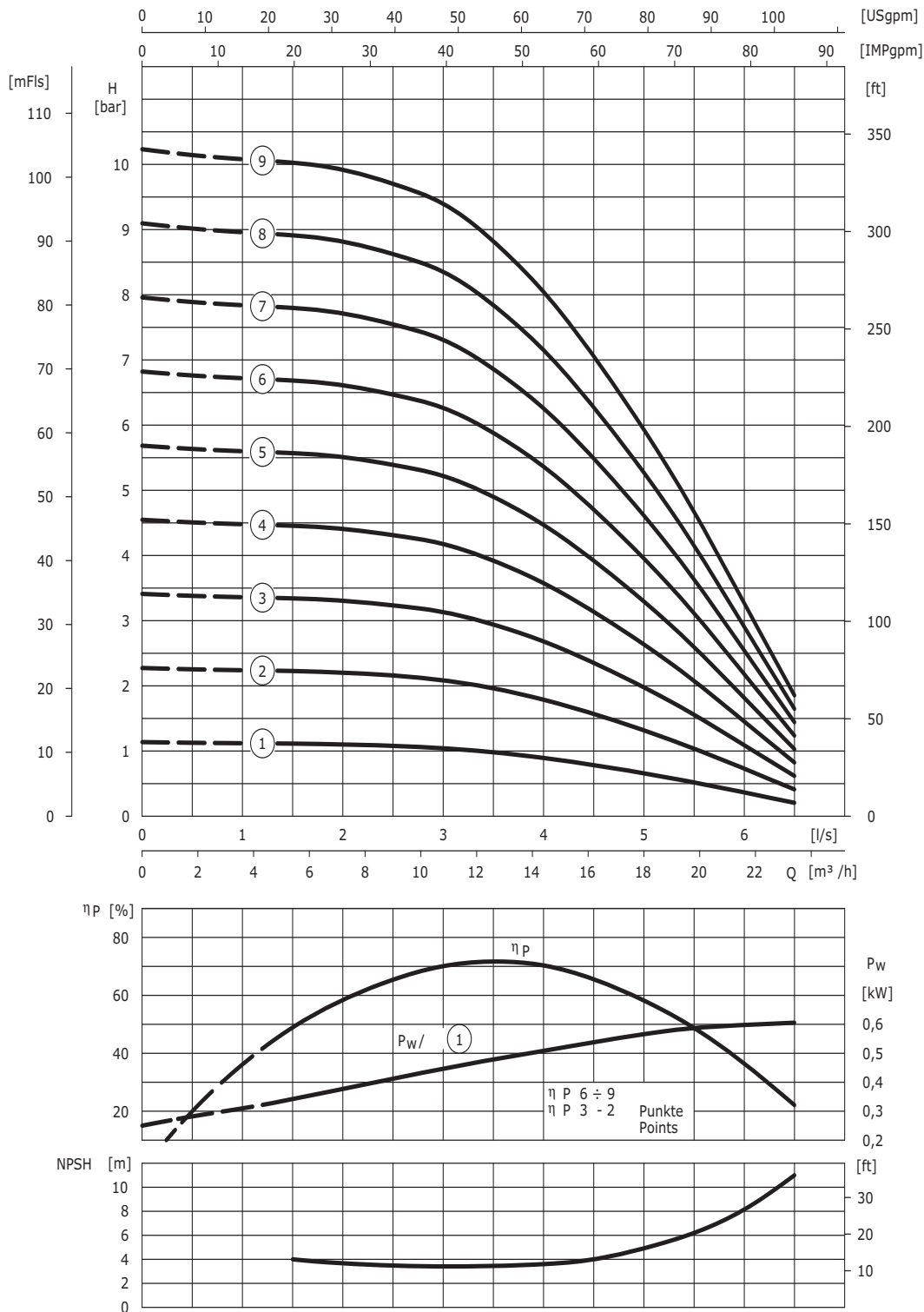
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilco-EMU 6" series

Pump curves Wilco-EMU NK 63

Wilco-EMU NK 63



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 63

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _W	I	
				[kW]	[A]	[kW]	[A]	
NK 63-1	1	A	NU 431-2/8	0.75	2.10	0.65	2	V+H
NK 63-2	2	A	NU 431-2/15	1.50	4	1.30	3.65	V+H
NK 63-3	3	A	NU 431-2/22	2.20	5.90	2	5.50	V+H
NK 63-4	4	A	NU 431-2/30	3.00	7.80	2.60	7.20	V+H
NK 63-5	5	A	NU 60-2/23	5.50	12.20	3.30	8.50	V+H
NK 63-5	5	A	NU 431-2/37	3.70	9.10	3.30	8.10	V+H
NK 63-6	6	A	NU 60-2/23	5.50	12.20	3.70	9.30	V+H
NK 63-6	6	A	NU 431-2/37	3.70	9.10	3.70	9.10	V+H
NK 63-7	7	A	NU 60-2/23	5.50	12.20	4.50	10.50	V+H
NK 63-7	7	A	NU 431-2/55	5.50	13.70	4.50	11.80	V+H
NK 63-7	7	A	NU 501-2/5	5.50	12.50	4.50	10.80	V+H
NK 63-8	8	A	NU 60-2/23	5.50	12.20	5.20	11.70	V+H
NK 63-8	8	A	NU 431-2/55	5.50	13.70	5.20	12.80	V+H
NK 63-8	8	A	NU 501-2/5	5.50	12.50	5.20	11.80	V+H
NK 63-9	9	A	NU 60-2/23	5.50	12.20	5.50	12.20	V+H
NK 63-9	9	A	NU 501-2/5	5.50	12.50	5.50	12.50	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
				L	max. ϕ					
				[mm]	[mm]					
NK 63...	G 2	I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-
	G 3	I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-

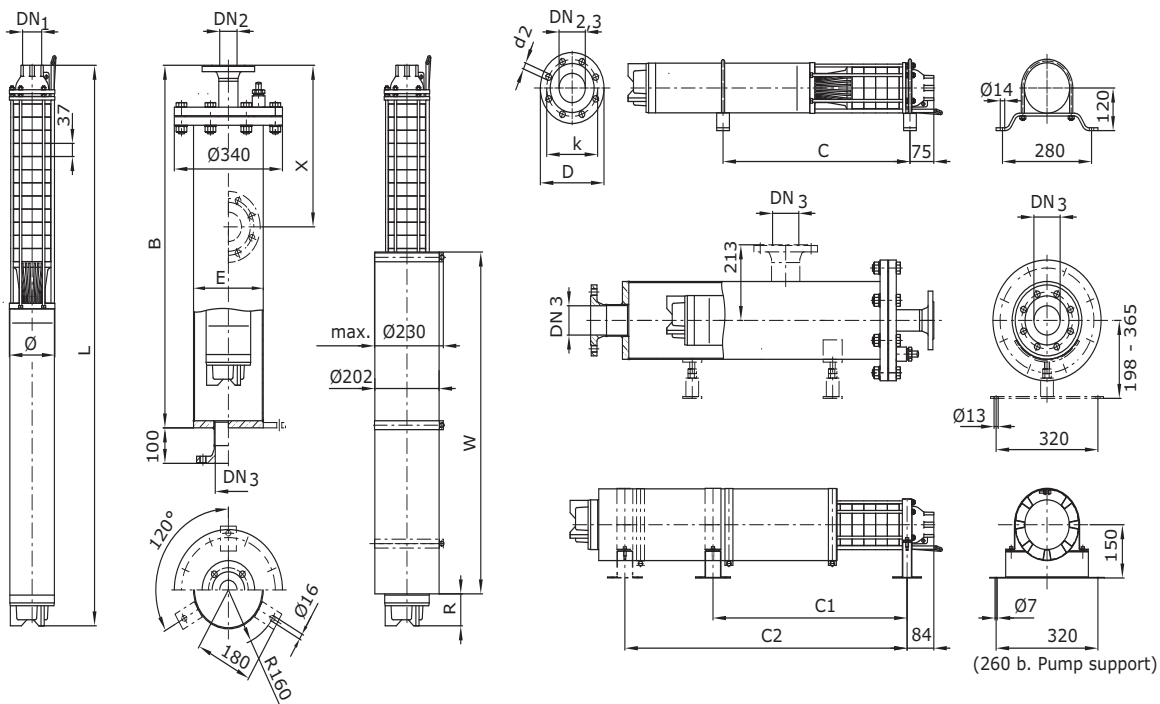
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Dimensions, weights Wilo-EMU NK 63

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
NK 63-1	NU 431-2/8	1050	310	219.1	518	143	16.1	60
NK 63-2	NU 431-2/15	1050	370	219.1	612	143	19.7	60
NK 63-3	NU 431-2/22	1050	420	219.1	677	143	22.2	60
NK 63-4	NU 431-2/30	1350	530	219.1	866	143	29.1	65
NK 63-5	NU 60-2/23	1350	690	219.1	1097	143	57.0	65
NK 63-5	NU 431-2/37	1350	590	219.1	943	143	33.0	65
NK 63-6	NU 60-2/23	1650	730	219.1	1134	143	58.0	70
NK 63-6	NU 431-2/37	1350	630	219.1	980	143	34.0	65
NK 63-7	NU 60-2/23	1650	770	219.1	1171	143	59.0	70
NK 63-7	NU 431-2/55	1650	740	219.1	1167	143	42.2	70
NK 63-7	NU 501-2/5	1650	730	219.1	1116	143	54.0	70
NK 63-8	NU 60-2/23	1650	800	219.1	1208	143	61.0	70
NK 63-8	NU 431-2/55	1650	780	219.1	1204	143	43.3	70
NK 63-8	NU 501-2/5	1650	770	219.1	1153	143	55.0	70
NK 63-9	NU 60-2/23	1650	840	219.1	1245	143	62.0	70
NK 63-9	NU 501-2/5	1650	810	219.1	1190	143	56.0	70

Accessories Wilо-EMU NK 63

Bearing brackets and anti-vortex plate

Wilо-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4...	–	6 038 560	6 001 712	6 038 325
NU 6...	–	6 038 562	6 001 440	1)
NU 501	–	6 038 562	6 001 440	1)

Cooling jacket pipes

Wilо-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
–				[mm]				
NK 63-1	NU 431-2/8	6 042 335	6 041 870	350	321	–	–	41
NK 63-2	NU 431-2/15	6 042 337	6 041 872	425	386	–	–	23
NK 63-3	NU 431-2/22	6 042 337	6 041 872	425	437	–	–	51
NK 63-4	NU 431-2/30	6 042 373	6 042 328	650	550	–	–	15
NK 63-5	NU 60-2/23	6 042 361	6 041 898	815	703	–	–	81
NK 63-5	NU 431-2/37	6 042 373	6 042 328	650	608	–	–	16
NK 63-6	NU 60-2/23	6 042 361	6 041 898	815	740	–	–	81
NK 63-6	NU 431-2/37	6 042 373	6 042 328	650	645	–	–	16
NK 63-7	NU 60-2/23	6 042 361	6 041 898	815	777	–	–	81
NK 63-7	NU 431-2/55	6 042 373	6 042 328	650	756	–	–	168
NK 63-7	NU 501-2/5	6 042 356	6 041 893	650	750	–	–	117
NK 63-8	NU 60-2/23	6 042 361	6 041 898	815	814	–	–	81
NK 63-8	NU 431-2/55	6 042 373	6 042 328	650	793	–	–	168
NK 63-8	NU 501-2/5	6 042 356	6 041 893	650	787	–	–	117
NK 63-9	NU 60-2/23	6 042 361	6 041 898	815	851	–	–	81
NK 63-9	NU 501-2/5	6 042 356	6 041 893	650	824	–	–	117

Flange dimensions

Wilо-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 63...	G 2 l	–	–	10-40	–	–	–	–	–
	G 3 l	–	–	10-40	–	–	–	–	–
	–	DN 50	–	–	10-40	–	4x18	125	165
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

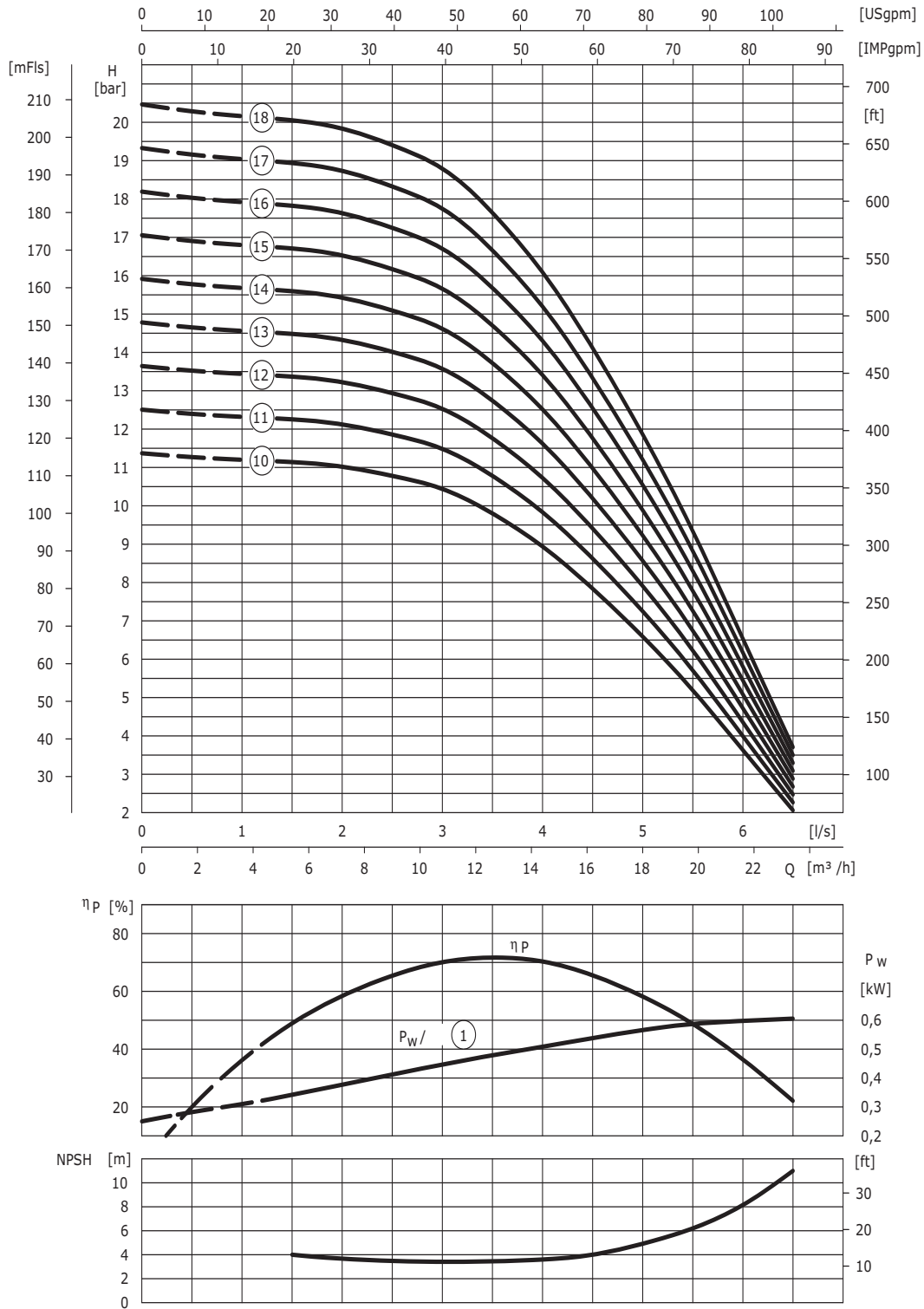
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilco-EMU 6" series

Pump curves Wilco-EMU NK 63

Wilco-EMU NK 63



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 63

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I	-
				[kW]	[A]	[kW]	[A]	-
NK 63-10	10	A	NU 60-2/24	9.00	19.80	6.50	15.50	V+H
NK 63-10	10	A	NU 501-2/7	7.50	16	6.50	14.30	V+H
NK 63-11	11	A	NU 60-2/24	9.00	19.80	7.10	16.50	V+H
NK 63-11	11	A	NU 501-2/7	7.50	16	7.10	15.30	V+H
NK 63-12	12	A	NU 60-2/24	9.00	19.80	7.80	17.60	V+H
NK 63-12	12	A	NU 501-2/7	7.50	16	7.50	16	V+H
NK 63-13	13	A	NU 60-2/24	9.00	19.80	8.40	18.70	V+H
NK 63-13	13	A	NU 501-2/9	9.30	20.70	8.40	19.50	V+H
NK 63-14	14	A	NU 60-2/24	9.00	19.80	9	19.80	V+H
NK 63-14	14	A	NU 501-2/9	9.30	20.70	9	20.50	V+H
NK 63-15	15	A	NU 60-2/32	12.50	27.50	9.70	22	V+H
NK 63-15	15	A	NU 501-2/9	9.30	20.70	9.30	20.70	V+H
NK 63-16	16	A	NU 60-2/32	12.50	27.50	10.40	23	V+H ¹⁾
NK 63-16	16	A	NU 501-2/11	11.00	23.30	10.40	22.50	V+H ¹⁾
NK 63-17	17	A	NU 60-2/32	12.50	27.50	10.90	24	V+H ¹⁾
NK 63-17	17	A	NU 501-2/11	11.00	23.30	10.90	23	V+H ¹⁾
NK 63-18	18	A	NU 60-2/32	12.50	27.50	11.60	25.50	V+H ¹⁾
NK 63-18	18	A	NU 501-2/15	15.00	31.30	11.60	26	V+H ¹⁾

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Convec- tion	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. ϕ	-				
	[mm]	-	[bar]	[mm]		[kg]	-			
NK 63...	G 2	I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-
	G 3	I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-

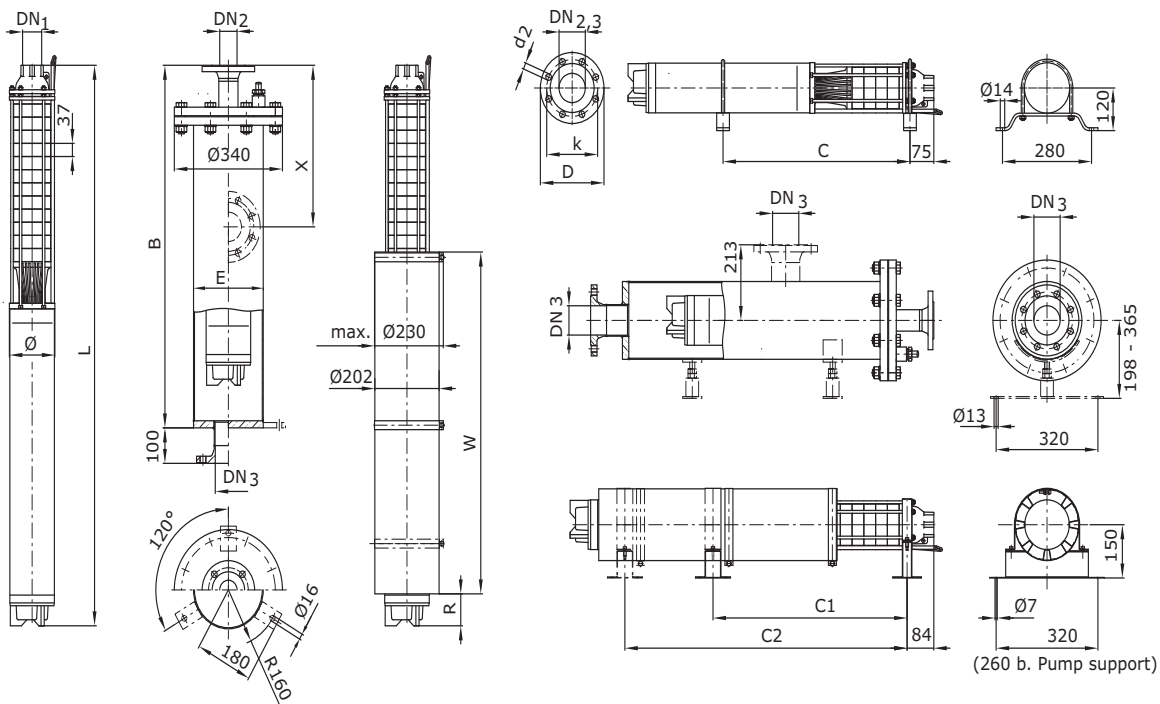
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ in case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Dimensions, weights Wilo-EMU NK 63

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 63-10	NU 60-2/24	1650	880	219.1	1282	143	63.0	70
NK 63-10	NU 501-2/7	1650	860	219.1	1258	143	61.0	70
NK 63-11	NU 60-2/24	1650	910	219.1	1319	143	64.0	70
NK 63-11	NU 501-2/7	1650	890	219.1	1295	143	62.0	70
NK 63-12	NU 60-2/24	1650	950	219.1	1356	143	65.0	70
NK 63-12	NU 501-2/7	1650	930	219.1	1332	143	63.0	70
NK 63-13	NU 60-2/24	1650	990	219.1	1393	143	66.0	70
NK 63-13	NU 501-2/9	1650	990	219.1	1402	143	66.0	70
NK 63-14	NU 60-2/24	1950	1030	219.1	1430	143	67.0	75
NK 63-14	NU 501-2/9	1950	1030	219.1	1439	143	67.0	75
NK 63-15	NU 60-2/32	1950	1100	219.1	1547	143	76.0	75
NK 63-15	NU 501-2/9	1950	1060	219.1	1476	143	68.0	75
NK 63-16	NU 60-2/32	1950	1.)	219.1	1584	143	77.0	75
NK 63-16	NU 501-2/11	1950	1.)	219.1	1545	143	73.0	75
NK 63-17	NU 60-2/32	1950	1.)	219.1	1621	143	78.0	75
NK 63-17	NU 501-2/11	1950	1.)	219.1	1582	143	74.0	75
NK 63-18	NU 60-2/32	1950	1.)	219.1	1658	143	79.0	75
NK 63-18	NU 501-2/15	1950	1.)	219.1	1684	143	81.0	75

Accessories Wilo-EMU NK 63

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4...	–	6 038 560	6 001 712	6 038 325
NU 6...	–	6 038 562	6 001 440	1)
NU 501	–	6 038 562	6 001 440	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
	–	–			[mm]			
NK 63-10	NU 60-2/24	6 042 361	6 041 898	815	888	–	–	81
NK 63-10	NU 501-2/7	6 042 356	6 041 893	650	876	–	–	148
NK 63-11	NU 60-2/24	6 042 361	6 041 898	815	925	–	–	81
NK 63-11	NU 501-2/7	6 042 356	6 041 893	650	913	–	–	148
NK 63-12	NU 60-2/24	6 042 361	6 041 898	815	962	–	–	81
NK 63-12	NU 501-2/7	6 042 356	6 041 893	650	950	–	–	148
NK 63-13	NU 60-2/24	6 042 361	6 041 898	815	999	–	–	81
NK 63-13	NU 501-2/9	6 042 352	6 041 889	815	1004	–	–	53
NK 63-14	NU 60-2/24	6 042 361	6 041 898	815	1036	–	–	81
NK 63-14	NU 501-2/9	6 042 352	6 041 889	815	1041	–	–	53
NK 63-15	NU 60-2/32	6 042 361	6 041 898	815	1113	–	–	87
NK 63-15	NU 501-2/9	6 042 352	6 041 889	815	1078	–	–	16
NK 63-16	NU 60-2/32	–	6 041 898	815	–	–	–	87
NK 63-16	NU 501-2/11	–	6 041 889	815	–	–	–	85
NK 63-17	NU 60-2/32	–	6 041 898	815	–	–	–	87
NK 63-17	NU 501-2/11	–	6 041 889	815	–	–	–	85
NK 63-18	NU 60-2/32	–	6 041 898	815	–	–	–	87
NK 63-18	NU 501-2/15	–	6 041 889	815	–	–	–	113

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 63...	G 2 I	–	–	10-40	–	–	–	–	–
	G 3 I	–	–	10-40	–	–	–	–	–
	–	DN 50	–	–	10-40	–	4x18	125	165
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
–	–	DN 100	–	–	10	8x18	180	220	

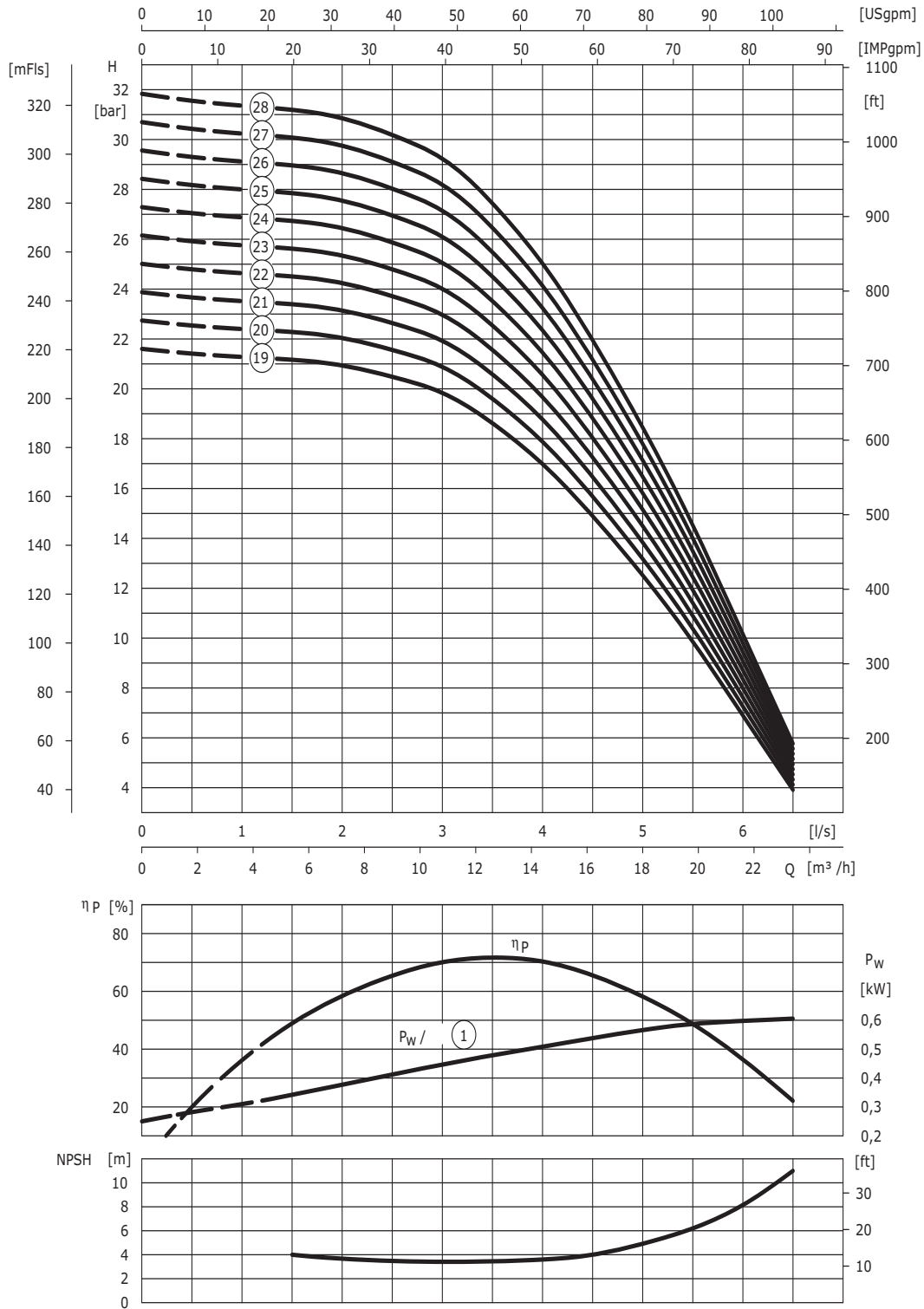
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilо-EMU 6" series

Pump curves Wilо-EMU NK 63

Wilо-EMU NK 63



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 63

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _W	I	
				[kW]	[A]	[kW]	[A]	
NK 63-19	19	A	NU 60-2/32	12.50	27.50	12.20	26.50	V
NK 63-19	19	A	NU 501-2/15	15.00	31.30	12.20	27	V
NK 63-20	20	A	NU 60-2/32	12.50	27.50	12.50	27.50	V
NK 63-20	20	A	NU 501-2/15	15.00	31.30	12.90	28	V
NK 63-21	21	A	NU 60-2/40	15.50	32.50	13.50	29.50	V
NK 63-21	21	A	NU 501-2/15	15.00	31.30	13.50	29	V
NK 63-22	22	A	NU 60-2/40	15.50	32.50	14.10	30	V
NK 63-22	22	A	NU 501-2/15	15.00	31.30	14.10	30	V
NK 63-23	23	A	NU 60-2/40	15.50	32.50	14.80	31.50	V
NK 63-23	23	A	NU 501-2/15	15.00	31.30	14.80	31.50	V
NK 63-24	24	A	NU 60-2/40	15.50	32.50	15.10	32	V
NK 63-24	24	A	NU 501-2/15	15.00	31.30	15	31.30	V
NK 63-25	25	A	NU 60-2/540	15.50	32.50	15.50	32.50	V
NK 63-25	25	A	NU 501-2/18	18.50	38.50	15.50	34	V
NK 63-26	26	A	NU 60-2/51	21.00	44.50	16.10	35	V
NK 63-26	26	A	NU 501-2/18	18.50	38.50	16.10	35	V
NK 63-27	27	A	NU 60-2/51	21.00	44.50	16.70	36	V
NK 63-27	27	A	NU 501-2/18	18.50	38.50	16.70	36	V
NK 63-28	28	A	NU 60-2/51	21.00	44.50	17.30	37	V
NK 63-28	28	A	NU 501-2/18	18.50	38.50	17.20	37	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
				DN ₁	max. ø					
				[mm]	[mm]					
NK 63...	G 2	I	10-40	5)	5)	5)	5)	1	-	-
	G 3	I	10-40	5)	5)	5)	5)	1	-	-

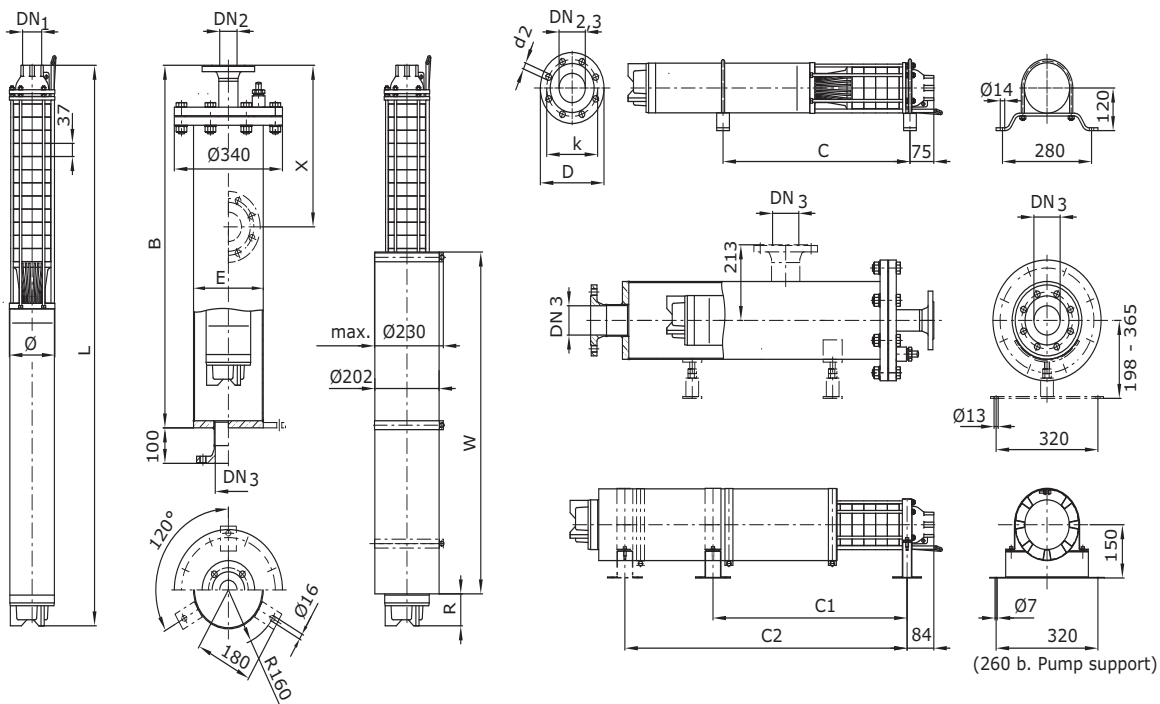
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Dimensions, weights Wilo-EMU NK 63

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 63-19	NU 60-2/32	2250	-	219.1	1775	143	84.0	80
NK 63-19	NU 501-2/15	2250	-	219.1	1801	143	86.0	80
NK 63-20	NU 60-2/32	2250	-	219.1	1812	143	84.0	80
NK 63-20	NU 501-2/15	2250	-	219.1	1838	143	87.0	80
NK 63-21	NU 60-2/40	2250	-	219.1	1929	143	94.0	80
NK 63-21	NU 501-2/15	2250	-	219.1	1875	143	88.0	80
NK 63-22	NU 60-2/40	2250	-	219.1	1966	143	95.0	80
NK 63-22	NU 501-2/15	2250	-	219.1	1912	143	89.0	80
NK 63-23	NU 60-2/40	2250	-	219.1	2003	143	96.0	80
NK 63-23	NU 501-2/15	2250	-	219.1	1949	143	90.0	80
NK 63-24	NU 60-2/40	2550	-	219.1	2040	143	97.0	84
NK 63-24	NU 501-2/15	2250	-	219.1	1986	143	91.0	80
NK 63-25	NU 60-2/540	2550	-	219.1	2177	143	98.0	84
NK 63-25	NU 501-2/18	2550	-	219.1	2089	143	98.0	84
NK 63-26	NU 60-2/51	2550	-	219.1	2214	143	109.0	84
NK 63-26	NU 501-2/18	2550	-	219.1	2126	143	99.0	84
NK 63-27	NU 60-2/51	2550	-	219.1	2251	143	110.0	84
NK 63-27	NU 501-2/18	2550	-	219.1	2163	143	100.0	84
NK 63-28	NU 60-2/51	2550	-	219.1	2288	143	111.0	84
NK 63-28	NU 501-2/18	2550	-	219.1	2200	143	102.0	84

Accessories Wilo-EMU NK 63

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4...	–	6 038 560	6 001 712	6 038 325
NU 6...	–	6 038 562	6 001 440	1)
NU 501	–	6 038 562	6 001 440	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		–		[mm]				
NK 63-19	NU 60-2/32	–	6 041 898	815	–	–	–	87
NK 63-19	NU 501-2/15	–	6 041 889	815	–	–	–	113
NK 63-20	NU 60-2/32	–	6 041 898	815	–	–	–	87
NK 63-20	NU 501-2/15	–	6 041 889	815	–	–	–	113
NK 63-21	NU 60-2/40	–	6 042 321	925	–	–	–	57
NK 63-21	NU 501-2/15	–	6 041 889	815	–	–	–	113
NK 63-22	NU 60-2/40	–	6 042 321	925	–	–	–	57
NK 63-22	NU 501-2/15	–	6 041 889	815	–	–	–	113
NK 63-23	NU 60-2/40	–	6 042 321	925	–	–	–	57
NK 63-23	NU 501-2/15	–	6 041 889	815	–	–	–	113
NK 63-24	NU 60-2/40	–	6 042 321	925	–	–	–	57
NK 63-24	NU 501-2/15	–	6 041 889	815	–	–	–	113
NK 63-25	NU 60-2/540	–	6 042 321	925	–	–	–	57
NK 63-25	NU 501-2/18	–	6 041 882	925	–	–	–	69
NK 63-26	NU 60-2/51	–	6 042 319	1000	–	–	–	82
NK 63-26	NU 501-2/18	–	6 041 882	925	–	–	–	69
NK 63-27	NU 60-2/51	–	6 042 319	1000	–	–	–	82
NK 63-27	NU 501-2/18	–	6 041 882	925	–	–	–	69
NK 63-28	NU 60-2/51	–	6 042 319	1000	–	–	–	82
NK 63-28	NU 501-2/18	–	6 041 882	925	–	–	–	69

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 63...	G 2 I	–	–	10-40	–	–	–	–	–
	G 3 I	–	–	10-40	–	–	–	–	–
	–	DN 50	–	–	10-40	–	4x18	125	165
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

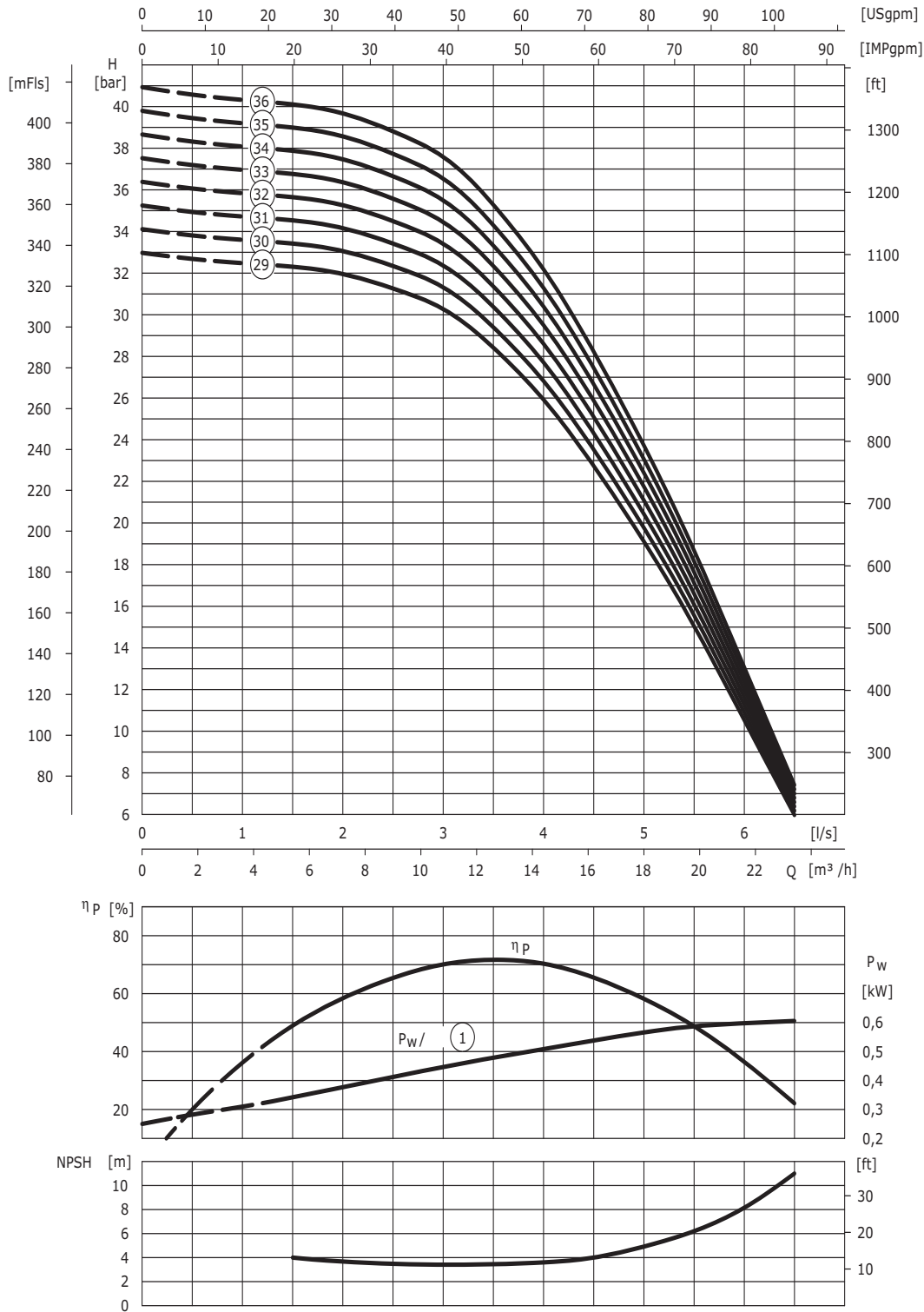
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilco-EMU 6" series

Pump curves Wilco-EMU NK 63

Wilco-EMU NK 63



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 63

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I	
				[kW]	[A]	[kW]	[A]	
NK 63-29	29	A	NU 60-2/51	21.00	44.50	17.80	37	V
NK 63-29	29	A	NU 501-2/18	18.50	38.50	17.70	38	V
NK 63-30	30	A	NU 60-2/51	21.00	44.50	18.30	39	V
NK 63-30	30	A	NU 501-2/18	18.50	38.50	18.30	38	V
NK 63-31	31	A	NU 60-2/51	21.00	44.50	18.90	40	V
NK 63-31	31	A	NU 501-2/22	22.00	45.30	19.30	40	V
NK 63-32	32	A	NU 60-2/51	21.00	44.50	19.40	41	V
NK 63-32	32	A	NU 501-2/22	22.00	45.30	19.80	41.50	V
NK 63-33	33	A	NU 60-2/51	21.00	44.50	20	42	V
NK 63-33	33	A	NU 501-2/22	22.00	45.30	20.50	42.50	V
NK 63-34	34	A	NU 60-2/51	21.00	44.50	20.50	43.40	V
NK 63-34	34	A	NU 501-2/22	22.00	45.30	21	43	V
NK 63-35	35	A	NU 60-2/61	25.00	52	22	46.50	V
NK 63-35	35	A	NU 501-2/22	22.00	45.30	21.50	44	V
NK 63-36	36	A	NU 60-2/61	25.00	52	22.60	47.50	V
NK 63-36	36	A	NU 501-2/30	30.00	63.50	23.10	52	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN_1	PN_1						L	max. ϕ
				[mm]	[bar]						[mm]	[kg]
NK 63...	G 2	I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-		
	G 3	I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-		

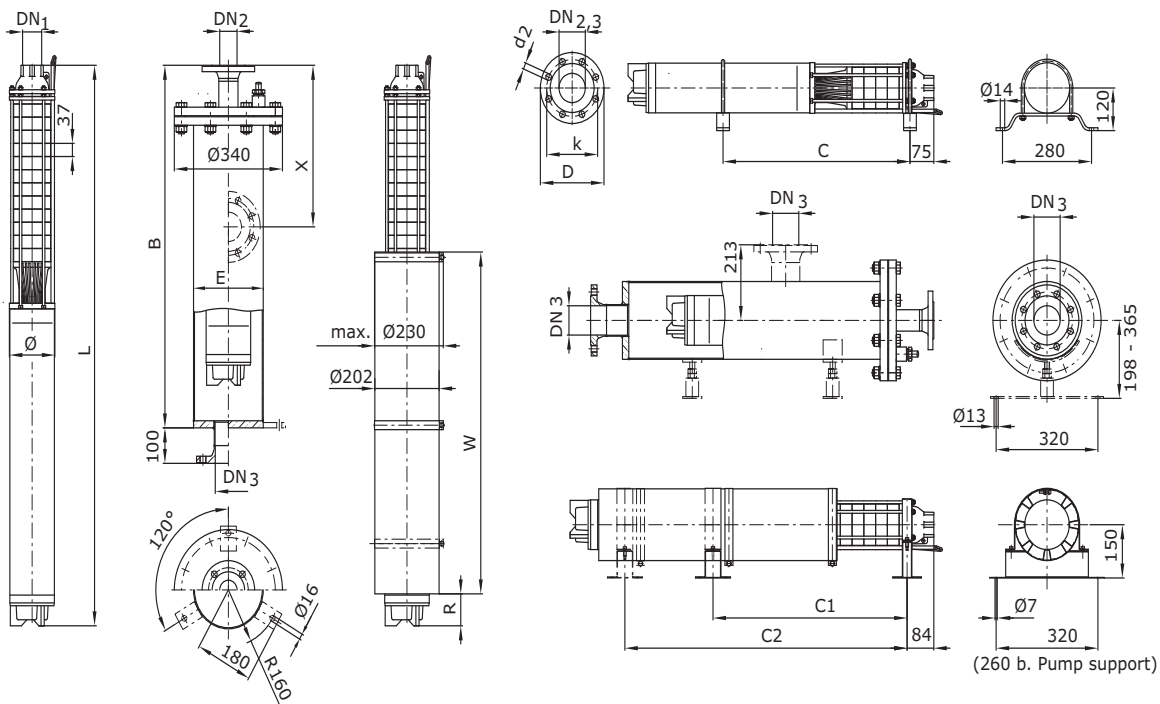
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Dimensions, weights Wilo-EMU NK 63

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 63-29	NU 60-2/51	2850	-	219.1	2325	143	112.0	89
NK 63-29	NU 501-2/18	2550	-	219.1	2237	143	103.0	84
NK 63-30	NU 60-2/51	2850	-	219.1	2362	143	113.0	89
NK 63-30	NU 501-2/18	2550	-	219.1	2274	143	104.0	84
NK 63-31	NU 60-2/51	2850	-	219.1	2399	143	114.0	89
NK 63-31	NU 501-2/22	2850	-	219.1	2376	143	111.0	89
NK 63-32	NU 60-2/51	2850	-	219.1	2436	143	115.0	89
NK 63-32	NU 501-2/22	2850	-	219.1	2413	143	112.0	89
NK 63-33	NU 60-2/51	2850	-	219.1	2473	143	116.0	89
NK 63-33	NU 501-2/22	2850	-	219.1	2450	143	113.0	89
NK 63-34	NU 60-2/51	2850	-	219.1	2510	143	117.0	89
NK 63-34	NU 501-2/22	2850	-	219.1	2487	143	114.0	89
NK 63-35	NU 60-2/61	3000	-	219.1	2647	143	128.0	92
NK 63-35	NU 501-2/22	2850	-	219.1	2524	143	115.0	89
NK 63-36	NU 60-2/61	3000	-	219.1	2684	143	129.0	92
NK 63-36	NU 501-2/30	3000	-	219.1	2691	143	130.0	92

Accessories Wilo-EMU NK 63

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4...	–	6 038 560	6 001 712	6 038 325
NU 6...	–	6 038 562	6 001 440	1)
NU 501	–	6 038 562	6 001 440	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		–		[mm]				
NK 63-29	NU 60-2/51	–	6 042 319	1000	–	–	–	82
NK 63-29	NU 501-2/18	–	6 041 882	925	–	–	–	69
NK 63-30	NU 60-2/51	–	6 042 319	1000	–	–	–	82
NK 63-30	NU 501-2/18	–	6 041 882	925	–	–	–	69
NK 63-31	NU 60-2/51	–	6 042 319	1000	–	–	–	82
NK 63-31	NU 501-2/22	–	6 041 885	1000	–	–	–	59
NK 63-32	NU 60-2/51	–	6 042 319	1000	–	–	–	82
NK 63-32	NU 501-2/22	–	6 041 885	1000	–	–	–	59
NK 63-33	NU 60-2/51	–	6 042 319	1000	–	–	–	82
NK 63-33	NU 501-2/22	–	6 041 885	1000	–	–	–	59
NK 63-34	NU 60-2/51	–	6 042 319	1000	–	–	–	82
NK 63-34	NU 501-2/22	–	6 041 885	1000	–	–	–	59
NK 63-35	NU 60-2/61	–	6 042 315	1100	–	–	–	82
NK 63-35	NU 501-2/22	–	6 041 885	1000	–	–	–	59
NK 63-36	NU 60-2/61	–	6 042 315	1100	–	–	–	82
NK 63-36	NU 501-2/30	–	6 041 874	1100	–	–	–	89

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 63...	G 2 l	–	–	10-40	–	–	–	–	–
	G 3 l	–	–	10-40	–	–	–	–	–
	–	DN 50	–	–	10-40	–	4x18	125	165
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

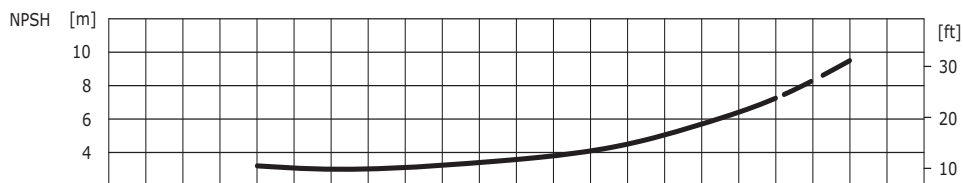
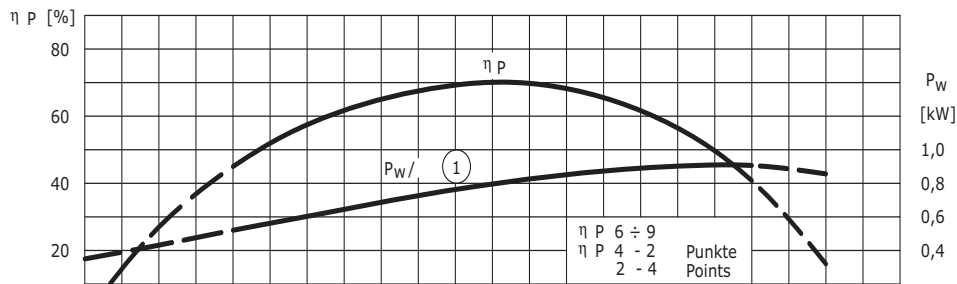
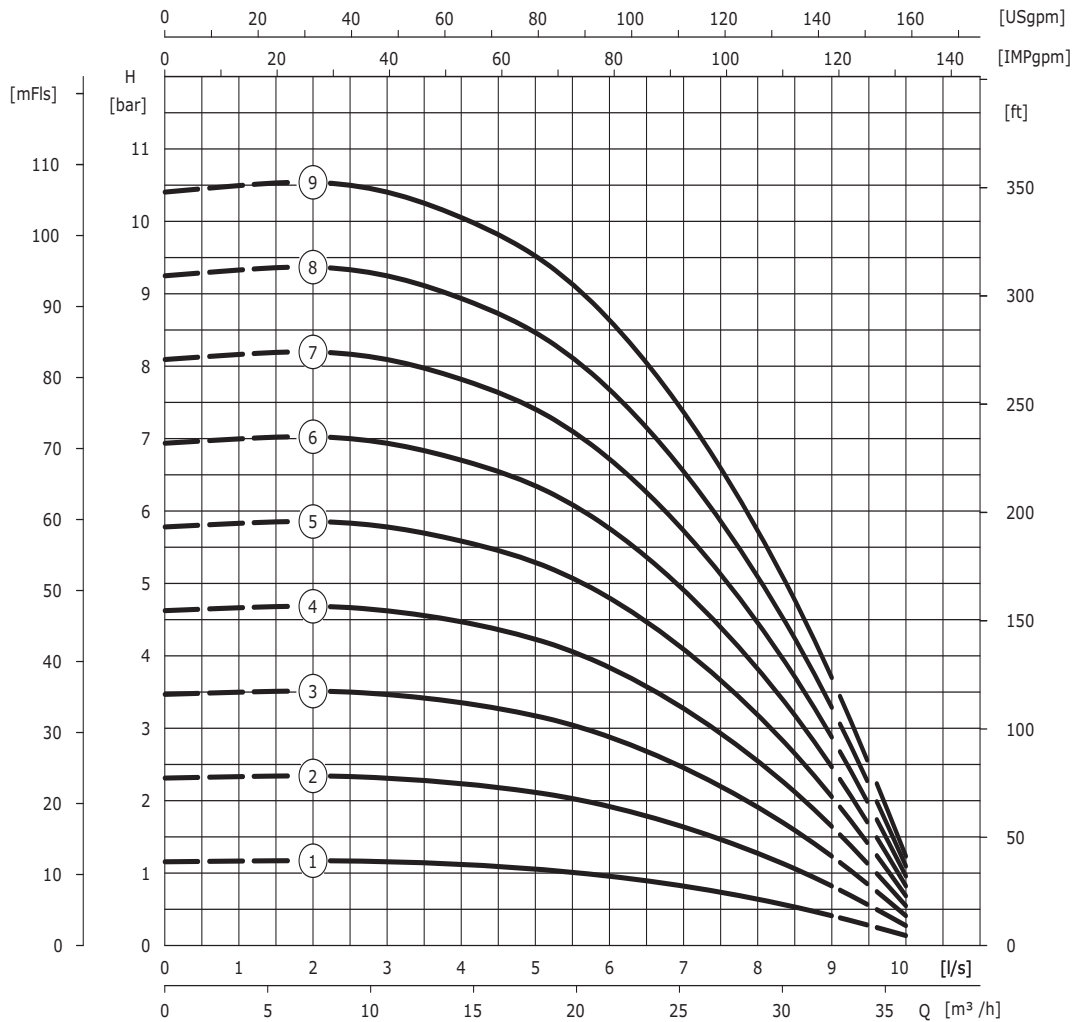
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/B), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilо-EMU 6" series

Pump curves Wilо-EMU NK 64

Wilо-EMU NK 64



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 64

Technical data

Wilo-EMU...	No.	Availability*	Motor type	Nominal power	Nominal current	Shaft power	Current for power requirement of the shaft	Inst.
				P_2 [kW]	I_N [A]	P_W [kW]	I [A]	
NK 64-1	1	A	NU 431-2/11	1.10	3	1	2.75	V+H
NK 64-2	2	A	NU 431-2/22	2.20	5.90	1.90	5.40	V+H
NK 64-3	3	A	NU 431-2/30	3.00	7.80	2.90	7.70	V+H
NK 64-4	4	A	NU 60-2/23	5.50	12.20	3.90	9.50	V+H
NK 64-4	4	A	NU 431-2/40	4.00	10	3.80	9.60	V+H
NK 64-4	4	A	NU 501-2/4	4.00	9.30	3.80	8.80	V+H
NK 64-5	5	A	NU 60-2/23	5.50	12.20	4.70	10.90	V+H
NK 64-5	5	A	NU 431-2/55	5.50	13.70	4.70	12.50	V+H
NK 64-6	6	A	NU 60-2/23	5.50	12.20	5.50	12.20	V+H
NK 64-6	6	A	NU 431-2/55	5.50	13.70	5.50	13.70	V+H
NK 64-6	6	A	NU 501-2/5	5.50	12.50	5.50	12.50	V+H
NK 64-7	7	A	NU 60-2/24	9.00	19.80	6.60	15.70	V+H
NK 64-7	7	A	NU 501-2/7	7.50	16	6.60	14.30	V+H
NK 64-8	8	A	NU 60-2/24	9.00	19.80	7.40	17	V+H
NK 64-8	8	A	NU 501-2/7	7.50	16	7.50	16	V+H
NK 64-9	9	A	NU 60-2/24	9.00	19.80	8.20	18.30	V+H
NK 64-9	9	A	NU 501-2/9	9.30	20.70	8.50	19.40	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
				L	max. ϕ					
				[mm]	[mm]					
NK 64...	G 2	I	10-40	5)	5)	5)	5)	1	-	-
	G 3	I	10-40	5)	5)	5)	5)	1	-	-

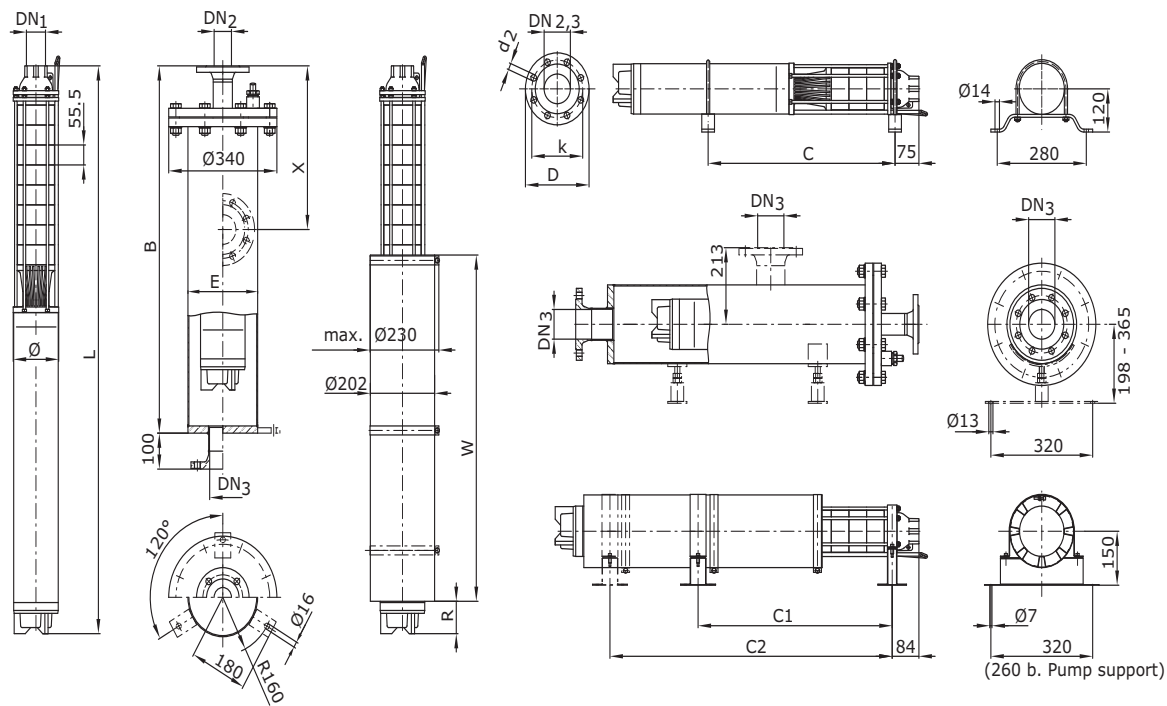
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Dimensions, weights Wilo-EMU NK 64

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
NK 64-1	NU 431-2/11	1050	340	219.1	565	143	17.5	60
NK 64-2	NU 431-2/22	1050	420	219.1	677	143	21.1	60
NK 64-3	NU 431-2/30	1350	550	219.1	885	143	28.0	65
NK 64-4	NU 60-2/23	1650	730	219.1	1134	143	56.0	70
NK 64-4	NU 431-2/40	1350	650	219.1	1016	143	33.6	65
NK 64-4	NU 501-2/4	1350	680	219.1	1045	143	46.8	65
NK 64-5	NU 60-2/23	1650	780	219.1	1190	143	57.0	70
NK 64-5	NU 431-2/55	1650	760	219.1	1186	143	40.0	70
NK 64-6	NU 60-2/23	1650	840	219.1	1245	143	58.0	70
NK 64-6	NU 431-2/55	1650	810	219.1	1241	143	41.0	70
NK 64-6	NU 501-2/5	1650	810	219.1	1190	143	52.0	70
NK 64-7	NU 60-2/24	1650	900	219.1	1301	143	59.0	70
NK 64-7	NU 501-2/7	1650	880	219.1	1277	143	58.0	70
NK 64-8	NU 60-2/24	1650	950	219.1	1356	143	60.0	70
NK 64-8	NU 501-2/7	1650	930	219.1	1365	143	61.0	70
NK 64-9	NU 60-2/24	1950	1010	219.1	1412	143	61.0	75
NK 64-9	NU 501-2/9	1950	1010	219.1	1421	143	62.0	75

Accessories Wilo-EMU NK 64

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4...	–	6 038 560	6 001 712	6 038 325
NU 6...	–	6 038 562	6 001 440	1)
NU 501	–	6 038 562	6 001 440	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
–				[mm]				
NK 64-1	NU 431-2/11	6 042 337	6 041 872	425	354	–	–	3
NK 64-2	NU 431-2/22	6 042 337	6 041 872	425	437	–	–	60
NK 64-3	NU 431-2/30	6 042 373	6 042 328	650	569	–	–	42
NK 64-4	NU 60-2/23	6 042 361	6 041 898	815	740	–	–	71
NK 64-4	NU 431-2/40	6 042 373	6 042 328	650	662	–	–	63
NK 64-4	NU 501-2/4	6 042 356	6 041 893	650	696	–	–	92
NK 64-5	NU 60-2/23	6 042 361	6 041 898	815	796	–	–	71
NK 64-5	NU 431-2/55	6 042 351	6 041 888	815	775	–	–	67
NK 64-6	NU 60-2/23	6 042 361	6 041 898	815	851	–	–	71
NK 64-6	NU 431-2/55	6 042 351	6 041 888	815	830	–	–	67
NK 64-6	NU 501-2/5	6 042 356	6 041 893	650	824	–	–	126
NK 64-7	NU 60-2/24	6 042 361	6 041 898	815	907	–	–	71
NK 64-7	NU 501-2/7	6 042 356	6 041 893	650	895	–	–	157
NK 64-8	NU 60-2/24	6 042 361	6 041 898	815	962	–	–	71
NK 64-8	NU 501-2/7	6 042 356	6 041 893	650	950	–	–	157
NK 64-9	NU 60-2/24	6 042 361	6 041 898	815	1018	–	–	71
NK 64-9	NU 501-2/9	6 042 352	6 041 889	815	1023	–	–	80

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 64...	G 2 I	–	–	10-40	–	–	–	–	–
	G 3 I	–	–	10-40	–	–	–	–	–
	–	DN 50	–	–	10-40	–	4x18	125	165
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

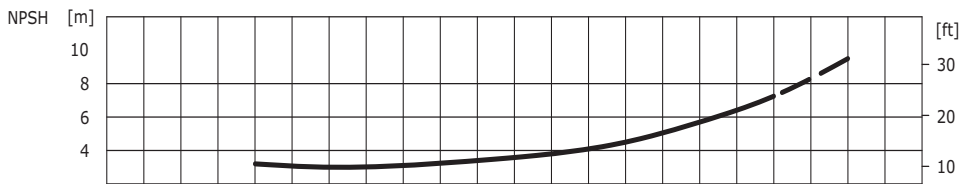
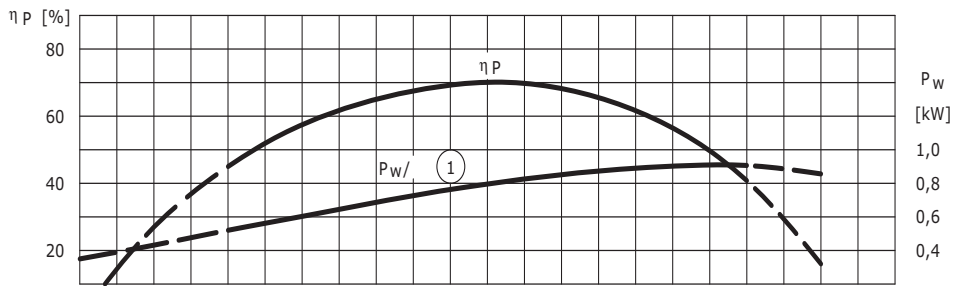
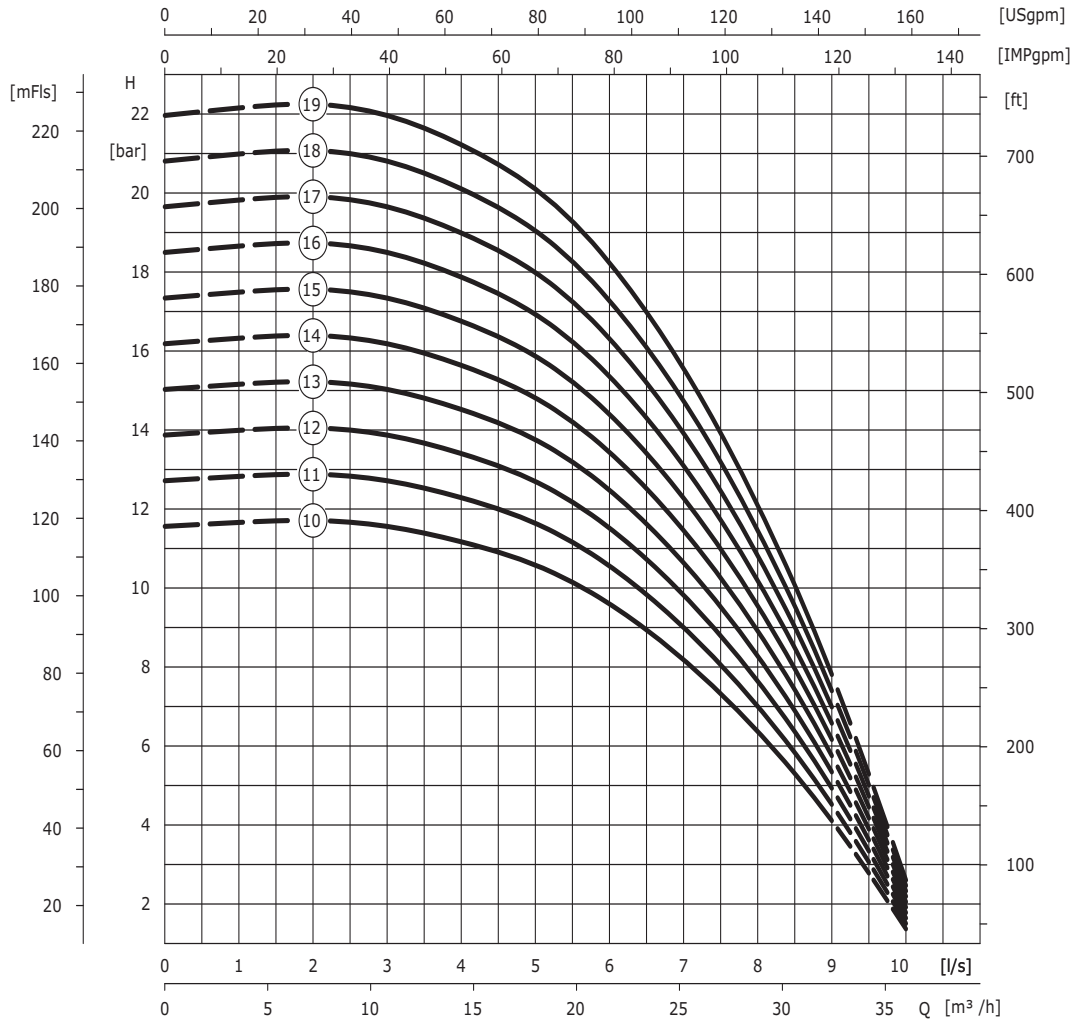
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Pump curves Wilo-EMU NK 64

Wilo-EMU NK 64



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 64

Technical data								
Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
		-		P ₂	I _N	P _W	I	-
		-		[kW]	[A]	[kW]	[A]	-
NK 64-10	10	A	NU 60-2/32	12.50	27.50	9.50	21.50	V+H
NK 64-10	10	A	NU 501-2/9	9.30	20.70	9.30	20.70	V+H
NK 64-11	11	A	NU 60-2/32	12.50	27.50	10.30	23	V+H ¹⁾
NK 64-11	11	A	NU 501-2/11	11.00	23.30	10.30	22	V+H ¹⁾
NK 64-12	12	A	NU 60-2/32	12.50	27.50	11.20	24.50	V+H ¹⁾
NK 64-12	12	A	NU 501-2/15	15.00	31.30	11.30	25	V+H ¹⁾
NK 64-13	13	A	NU 60-2/32	12.50	27.50	11.90	26	V
NK 64-13	13	A	NU 501-2/15	15.00	31.30	12.30	27	V
NK 64-14	14	A	NU 60-2/40	15.50	32.50	13	28.50	V
NK 64-14	14	A	NU 501-2/15	15.00	31.30	13.10	28.50	V
NK 64-15	15	A	NU 60-2/40	15.50	32.50	13.80	29.50	V
NK 64-15	15	A	NU 501-2/15	15.00	31.30	14	30	V
NK 64-16	16	A	NU 60-2/40	15.50	32.50	14.60	31	V
NK 64-16	16	A	NU 501-2/15	15.00	31.30	14.90	31.30	V
NK 64-17	17	A	NU 60-2/40	15.50	32.50	15.40	32.50	V
NK 64-17	17	A	NU 501-2/18	18.50	38.50	15.90	34	V
NK 64-18	18	A	NU 60-2/51	21.00	44.50	16.80	36.50	V
NK 64-18	18	A	NU 501-2/18	18.50	38.50	16.70	35.50	V
NK 64-19	19	A	NU 60-2/51	21.00	44.50	17.60	37.50	V
NK 64-19	19	A	NU 501-2/22	18.50	38.50	17.60	37	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves										
Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. ø			-		
	[mm]	-	[bar]	[mm]		[kg]		-		
NK 64...	G 2	I	10-40	5)	5)	5)	5)	1	-	-
	G 3	I	10-40	5)	5)	5)	5)	1	-	-

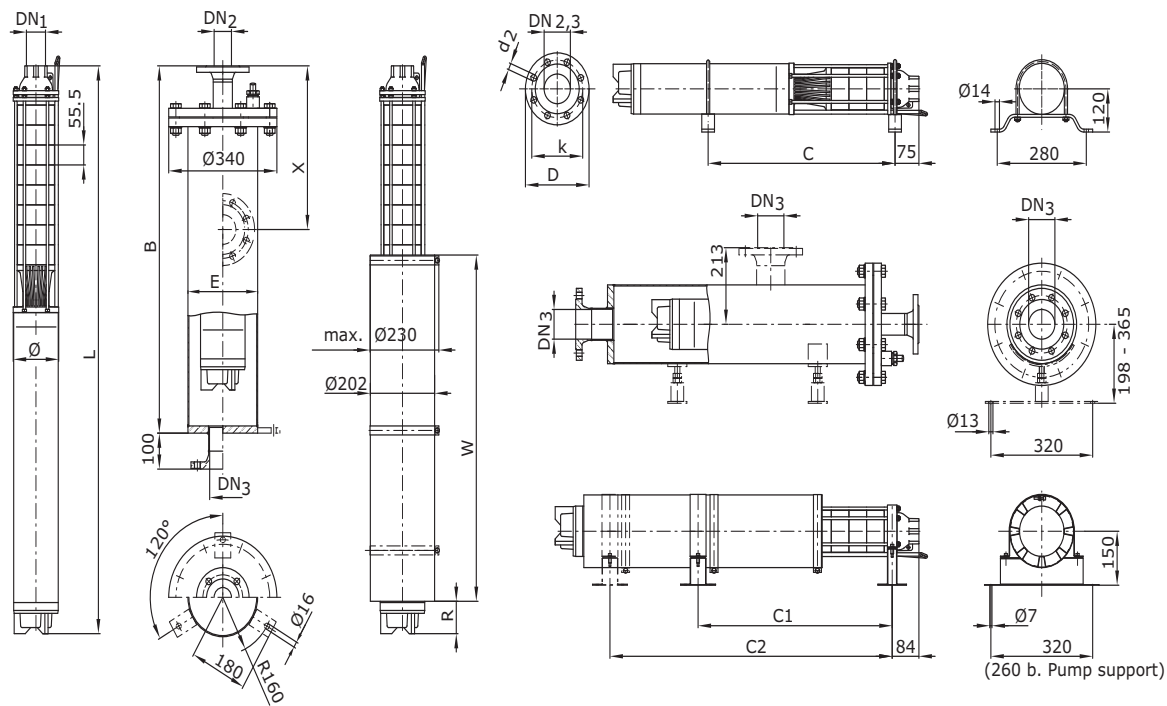
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Dimensions, weights Wilo-EMU NK 64

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
NK 64-10	NU 60-2/32	1950	1100	219.1	1547	143	70.0	75
NK 64-10	NU 501-2/9	1950	1060	219.1	1476	143	62.0	75
NK 64-11	NU 60-2/32	1950	1) ¹⁾	219.1	1603	143	71.0	75
NK 64-11	NU 501-2/11	1950	1) ¹⁾	219.1	1564	143	67.0	75
NK 64-12	NU 60-2/32	1950	1) ¹⁾	219.1	1658	143	72.0	75
NK 64-12	NU 501-2/15	1950	1) ¹⁾	219.1	1684	143	74.0	75
NK 64-13	NU 60-2/32	2250	-	219.1	1794	143	78.0	80
NK 64-13	NU 501-2/15	2250	-	219.1	1820	143	80.0	80
NK 64-14	NU 60-2/40	2250	-	219.1	1929	143	87.0	80
NK 64-14	NU 501-2/15	2250	-	219.1	1875	143	81.0	80
NK 64-15	NU 60-2/40	2250	-	219.1	1985	143	88.0	80
NK 64-15	NU 501-2/15	2250	-	219.1	1931	143	82.0	80
NK 64-16	NU 60-2/40	2550	-	219.1	2040	143	89.0	84
NK 64-16	NU 501-2/15	2250	-	219.1	1986	143	83.0	80
NK 64-17	NU 60-2/40	2550	-	219.1	2096	143	90.0	84
NK 64-17	NU 501-2/18	2550	-	219.1	2108	143	91.0	84
NK 64-18	NU 60-2/51	2550	-	219.1	2251	143	101.0	84
NK 64-18	NU 501-2/18	2550	-	219.1	2163	143	92.0	84
NK 64-19	NU 60-2/51	2850	-	219.1	2307	143	102.0	89
NK 64-19	NU 501-2/22	2850	-	219.1	2219	143	93.0	89

Accessories Wilo-EMU NK 64

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4...	–	6 038 560	6 001 712	6 038 325
NU 6...	–	6 038 562	6 001 440	1)
NU 501	–	6 038 562	6 001 440	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
	–	–			[mm]			
NK 64-10	NU 60-2/32	6 042 361	6 041 898	815	1113	–	–	96
NK 64-10	NU 501-2/9	6 042 352	6 041 889	815	1078	–	–	80
NK 64-11	NU 60-2/32	–	6 041 898	815	–	–	–	96
NK 64-11	NU 501-2/11	–	6 041 889	815	–	–	–	57
NK 64-12	NU 60-2/32	–	6 041 898	815	–	–	–	96
NK 64-12	NU 501-2/15	–	6 041 889	815	–	–	–	122
NK 64-13	NU 60-2/32	–	6 041 898	815	–	–	–	96
NK 64-13	NU 501-2/15	–	6 041 889	815	–	–	–	122
NK 64-14	NU 60-2/40	–	6 042 321	925	–	–	–	66
NK 64-14	NU 501-2/15	–	6 041 889	815	–	–	–	122
NK 64-15	NU 60-2/40	–	6 042 321	925	–	–	–	66
NK 64-15	NU 501-2/15	–	6 041 889	815	–	–	–	122
NK 64-16	NU 60-2/40	–	6 042 321	925	–	–	–	66
NK 64-16	NU 501-2/15	–	6 041 889	815	–	–	–	122
NK 64-17	NU 60-2/40	–	6 042 321	925	–	–	–	66
NK 64-17	NU 501-2/18	–	6 041 882	925	–	–	–	78
NK 64-18	NU 60-2/51	–	6 042 319	1000	–	–	–	91
NK 64-18	NU 501-2/18	–	6 041 882	925	–	–	–	78
NK 64-19	NU 60-2/51	–	6 042 319	1000	–	–	–	91
NK 64-19	NU 501-2/22	–	6 041 882	925	–	–	–	78

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 64...	G 2 I	–	–	10-40	–	–	–	–	–
	G 3 I	–	–	10-40	–	–	–	–	–
	–	DN 50	–	–	10-40	–	4x18	125	165
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

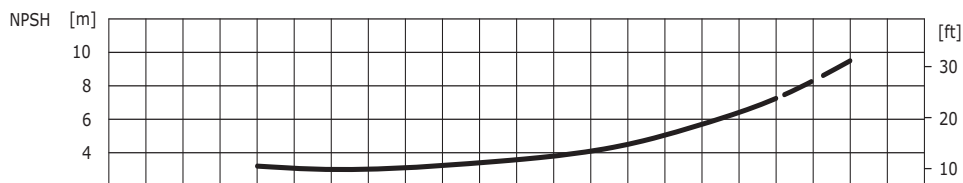
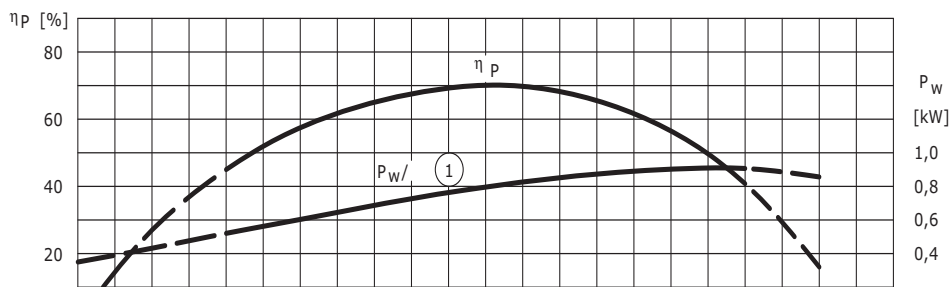
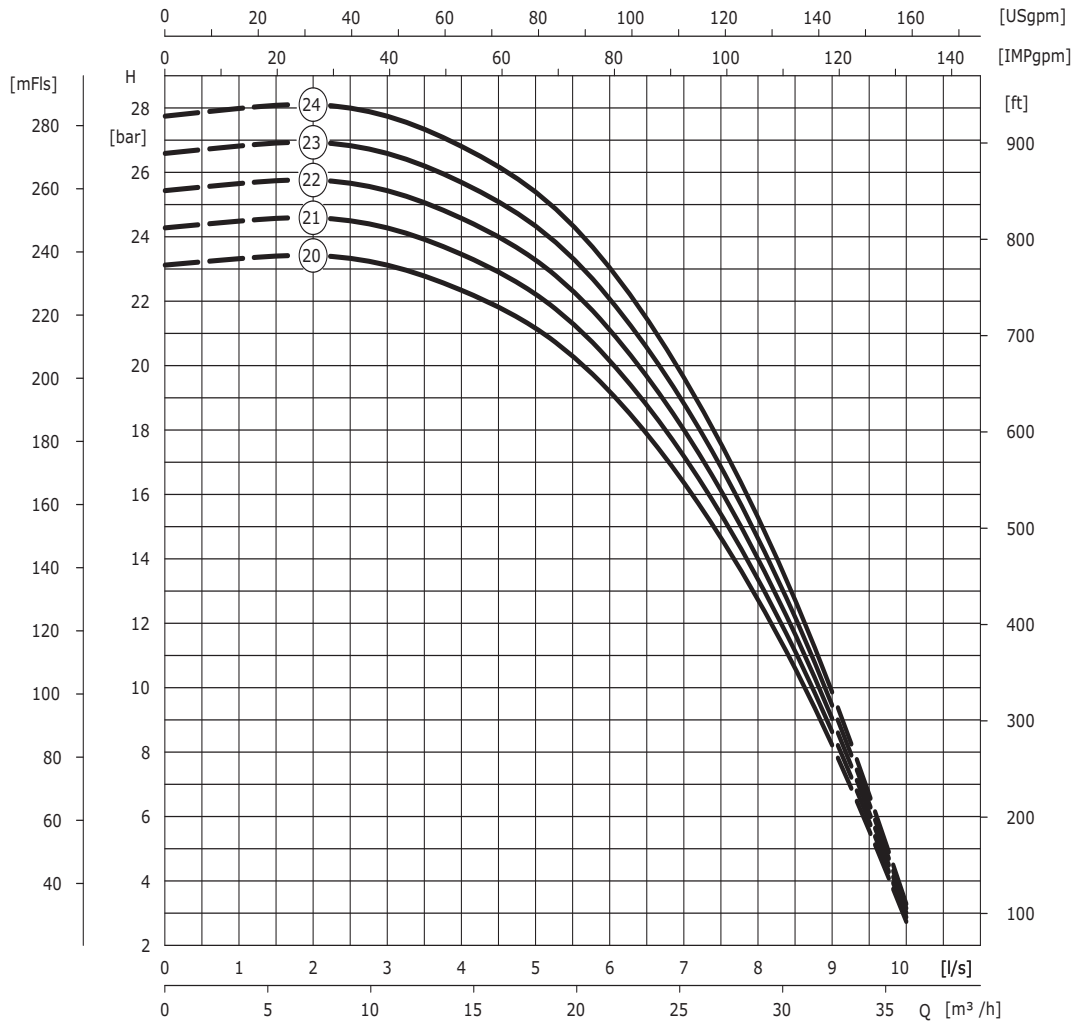
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilо-EMU 6" series

Pump curves Wilо-EMU NK 64

Wilо-EMU NK 64



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 64

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _W	I	
				[kW]	[A]	[kW]	[A]	
NK 64-20	20	A	NU 60-2/51	21.00	44.50	18.40	39	V
NK 64-20	20	A	NU 501-2/18	18.50	38.50	18.40	38.50	V
NK 64-21	21	A	NU 60-2/51	21.00	44.50	19.20	40.50	V
NK 64-21	21	A	NU 501-2/22	22.00	45.30	19.60	40.50	V
NK 64-22	22	A	NU 60-2/51	21.00	44.50	20	42	V
NK 64-22	22	A	NU 501-2/22	22.00	45.30	20.50	42	V
NK 64-23	23	A	NU 60-2/51	21.00	44.50	20.70	43.70	V
NK 64-23	23	A	NU 501-2/22	22.00	45.30	21.60	44	V
NK 64-24	24	A	NU 60-2/61	25.00	52	22.60	47.50	V
NK 64-24	24	A	NU 501-2/30	30.00	63.50	23.10	51	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN ₁	PN ₁						L	max. ø
				[mm]	[bar]						[mm]	[mm]
NK 64...	G 2	I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-		
	G 3	I	10-40	⁵⁾	⁵⁾	⁵⁾	⁵⁾	1	-	-		

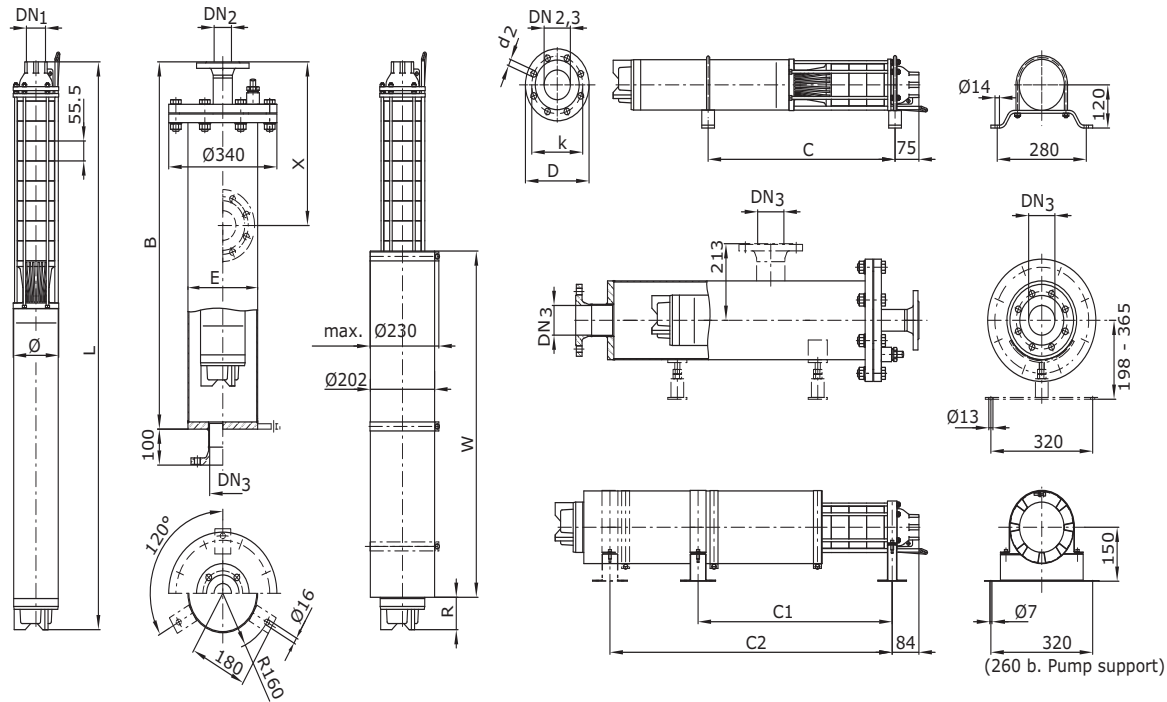
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 6" series

Dimensions, weights Wilo-EMU NK 64

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 64-20	NU 60-2/51	2850	-	219.1	2362	143	103.0	89
NK 64-20	NU 501-2/18	2550	-	219.1	2274	143	94.0	84
NK 64-21	NU 60-2/51	2850	-	219.1	2418	143	104.0	89
NK 64-21	NU 501-2/22	2850	-	219.1	2395	143	101.0	89
NK 64-22	NU 60-2/51	2850	-	219.1	2473	143	105.0	89
NK 64-22	NU 501-2/22	2850	-	219.1	2450	143	102.0	89
NK 64-23	NU 60-2/51	2850	-	219.1	2529	143	106.0	89
NK 64-23	NU 501-2/22	2850	-	219.1	2506	143	103.0	89
NK 64-24	NU 60-2/61	3000	-	219.1	2684	143	117.0	92
NK 64-24	NU 501-2/30	3000	-	219.1	2691	143	118.0	92

Accessories Wilo-EMU NK 64

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4...	–	6 038 560	6 001 712	6 038 325
NU 6...	–	6 038 562	6 001 440	1)
NU 501	–	6 038 562	6 001 440	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		–			[mm]			
NK 64-20	NU 60-2/51	–	6 042 319	1000	–	–	–	91
NK 64-20	NU 501-2/18	–	6 041 882	925	–	–	–	78
NK 64-21	NU 60-2/51	–	6 042 319	1000	–	–	–	91
NK 64-21	NU 501-2/22	–	6 041 885	1000	–	–	–	68
NK 64-22	NU 60-2/51	–	6 042 319	1000	–	–	–	91
NK 64-22	NU 501-2/22	–	6 041 885	1000	–	–	–	68
NK 64-23	NU 60-2/51	–	6 042 319	1000	–	–	–	91
NK 64-23	NU 501-2/22	–	6 041 885	1000	–	–	–	68
NK 64-24	NU 60-2/61	–	6 042 315	1100	–	–	–	91
NK 64-24	NU 501-2/30	–	6 041 874	1100	–	–	–	98

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 64...	G 2 l	–	–	10-40	–	–	–	–	–
	G 3 l	–	–	10-40	–	–	–	–	–
	–	DN 50	–	–	10-40	–	4x18	125	165
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial



Wilо-EMU 8" series

Single pumps

Wilо-EMU 8" series

Series description	262
Wilо-EMU NK 80	266
Wilо-EMU NK 80.2	282
Wilо-EMU NK 81	290
Wilо-EMU NK 82	302
Wilо-EMU KD 13	310
Wilо-EMU KD 16	318
Wilо-EMU KD 25	326
Wilо-EMU KD 38	334
Wilо-EMU K 83.1	338
Wilо-EMU K 84	346
Wilо-EMU K 85	354
Wilо-EMU K 86	358
Wilо-EMU NK 86	362
Wilо-EMU K 87	370

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Series description Wilo-EMU 8" series



Wilo-EMU 8" series

Submersible pumps

Type key hydraulics

Example: **NK 80.2-17**

- NK** = Submersible hydraulics (NK, KD, K)
- 8** = Hydraulics diameter
- 0** = Installation size
- 2** = Impeller in special material
- 17** = Stage number

Type key motor

Example: **NU 60-2/61**

- NU** = Submersible motor
- 60** = Installation size (4... = 4" installation size; 5.../6... = 6" installation size; 7.../8... = 8" installation size)
- 2** = Number of poles
- 61** = Unit length

Application

Pure water unit for pumping clean water with a maximum temperature up to 20 °C, without long-fibre components, from wells with a minimum diameter of 200 mm, suitable for a maximum installation depth of 300 m.

Application areas in municipal water supply, for sprinkling and irrigation, pressure boosting, lowering of the groundwater level, industrial applications and off-shore installations, for use of geothermal energy as well as for fountains, snow cannons and water organs.

Higher temperatures of the fluid on request.

Horizontal installation possible depending on the type and stages.

Construction

Hydraulics

Hydraulics in single or multistage construction with radial or semi-axial stage construction. The housings are made of GJL (cast iron) with 2K coating or G-CuSn10. The impellers are made of Noryl plas-

tics or G-CuSn10. The suction piece is located between the hydraulics and the motor which is made with vertical slots (NK 80, 81, 82) for the protection against heavily contaminated fluid or covered with a strainer. The pressure outlet in the types NK 80, 81, 82 has an integrated non-return valve or a pressure port with thread connection, in the case of the KD series it has an integrated non-return valve with flange connection. In the K series or the NK 86 a non-return valve can be installed instead of the pressure port with flange or thread connection.

Motor

The motor shroud is made of stainless steel A2/A4 quality. Three-phase motor for direct or star/delta start. The motor is connected according to NEMA standard. The shaft is sealed on the motor side with a mechanical seal with SiC/SiC combination. Special materials are possible on request. All motors are suitable for a frequency converter operation (SF 1.1).

Cooling

The motor is cooled by the fluid and the required flow speed. In addition, all motors are filled with a water-glycol mixture from the manufacturer as standard. The motors of the NU 6... and NU 8... series can alternatively be filled with secondary hot water (T version).

Pressure shroud

For pressure boosting in the pipeline system the unit can be installed in a pressure shroud. This version does not have a non-return valve as standard. The max. inlet pressure is at 10 bar. The construction of the pressure shroud is standardised.

Optional

- Special materials
- 60Hz variant
- Cooling jacket pipe for vertical and horizontal installation
- Bearing brackets and anti-rotation plate for the horizontal installation
- Length of the power cable upon customer demand

Series description Wilo-EMU 8" series

Technical data

Wilo-EMU...	Control area for frequency converter*	Max. fluid temperature	Min. flow rate at the motor	Cable length
	[Hz]	[°C]	[m/s]	[m]
NU 4...	30-50	30	0.10	upon customer demand
NU 5...	30-50	30	0.16	upon customer demand
NU 611	30-50	30	0.50	upon customer demand
NU 60...	25-50	20	0.10	upon customer demand
NU 7...	30-50	30	0.16	upon customer demand
NU 80...	25-50	20	0.10	upon customer demand
NU 811	30-50	30	0.50	upon customer demand

* Application of a sine filter or 10 % power reserve in relation to the max. shaft power P_w

Material pump

Wilo-EMU...	Version	Suction piece	Housing	Pressure port	RVF	Impeller	Diffuser	Shaft	Screwed connection
NK 80, NK 81, NK 82	A	NiAl-Bz	EN-GJL	NiAl-Bz	NiAl-Bz	Noryl	Noryl	1.4021	A2
	C	NiAl-Bz	NiAl-Bz	NiAl-Bz	NiAl-Bz	Noryl	Noryl	1.4122	A2
NK 80.2	A	NiAl-Bz	EN-GJL	NiAl-Bz	NiAl-Bz	G-CuSn10	Noryl	1.4021	A2
	C	NiAl-Bz	NiAl-Bz	NiAl-Bz	NiAl-Bz	G-CuSn10	Noryl	1.4122	A2
KD 13, KD 16, KD 25, KD 38	A	EN-GJL	EN-GJL	EN-GJL	EN-GJL	G-CuSn10	EN-GJL	1.4021	A2
	C	G-CuSn10	G-CuSn10	G-CuSn10	G-CuSn10	G-CuSn10	G-CuSn10	1.4122	A2
K 83.1, K 84, K 85, K 86, K 87, NK 86	A	EN-GJL	EN-GJL	EN-GJL	EN-GJL	G-CuSn10	–	1.4021	A2
	C	G-CuSn10	G-CuSn10	G-CuSn10	G-CuSn10	G-CuSn10	–	1.4122	A2

Material motor

Wilo-EMU...	Version	Housing	Motor shroud	Shaft	Screwed connection
NU 4...	A	1.4301	1.4301	1.4305	A2
	C	1.4401	1.4571	1.4542	A4
NU 501	A	EN-GJL	1.4301	1.4305	A2
	C	1.4408	1.4571	1.4542	A4
NU 60 / 601	B	NiAl-Bz	1.4301	1.4057	A2
	D	NiAl-Bz	1.4571	1.4462	A2
NU 611	B	1.4301	1.4306	1.4301	A2
	D	1.4571	1.4541	1.4462	A4
NU 701	A	EN-GJL	1.4301	1.4305	A2
	C	1.4401	1.4571	1.4542	A4
NU 80 / 801	A	EN-GJL	1.4301	1.4021	A2
	C	G-CuSn10	1.4571	1.4462	A2
NU 811	A	EN-GJS	1.4306	1.4301	A2
	C	1.4571	1.4541	1.4462	A4

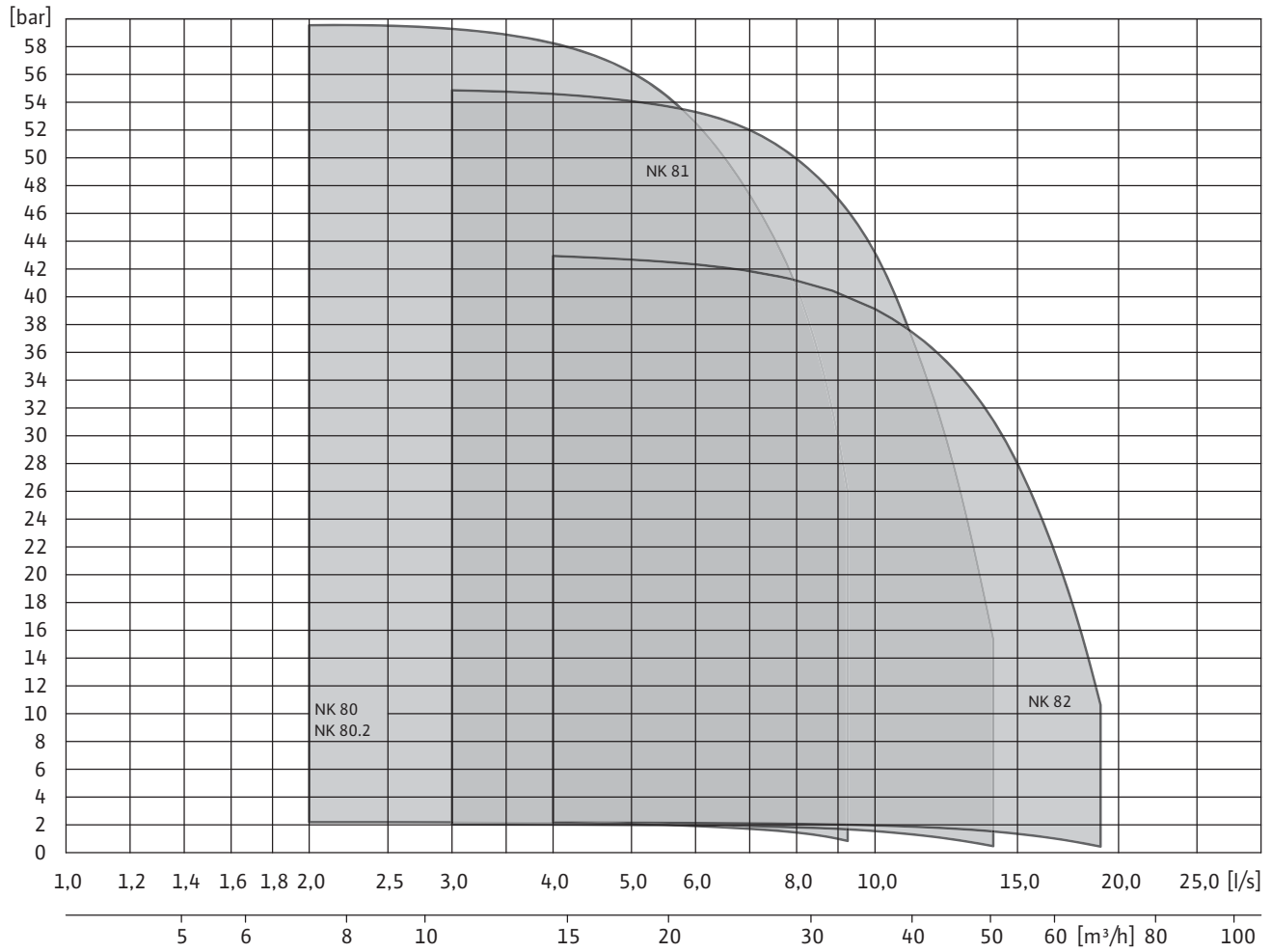
The Drinking Water Ordinance and the respective approved technical rules are to be considered for the use of cast iron in the potable water installation!

Water Supply Municipal/Industrial

Wilo-EMU 8" series

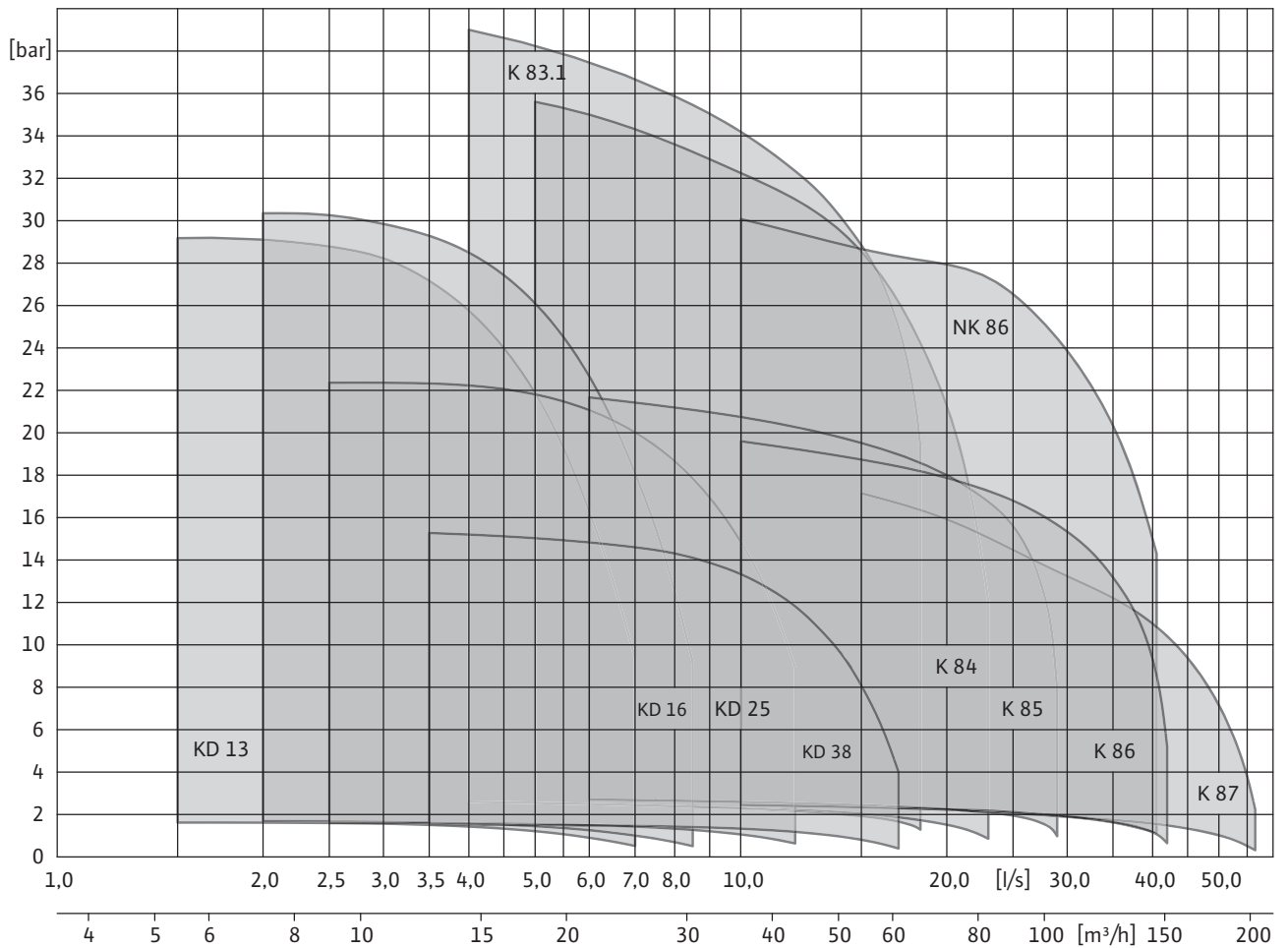
Series description Wilo-EMU 8" series

Overview pump curve Wilo-EMU 8" series in light version



Series description Wilo-EMU 8" series

Overview pump curve Wilo-EMU 8" series in heavy version

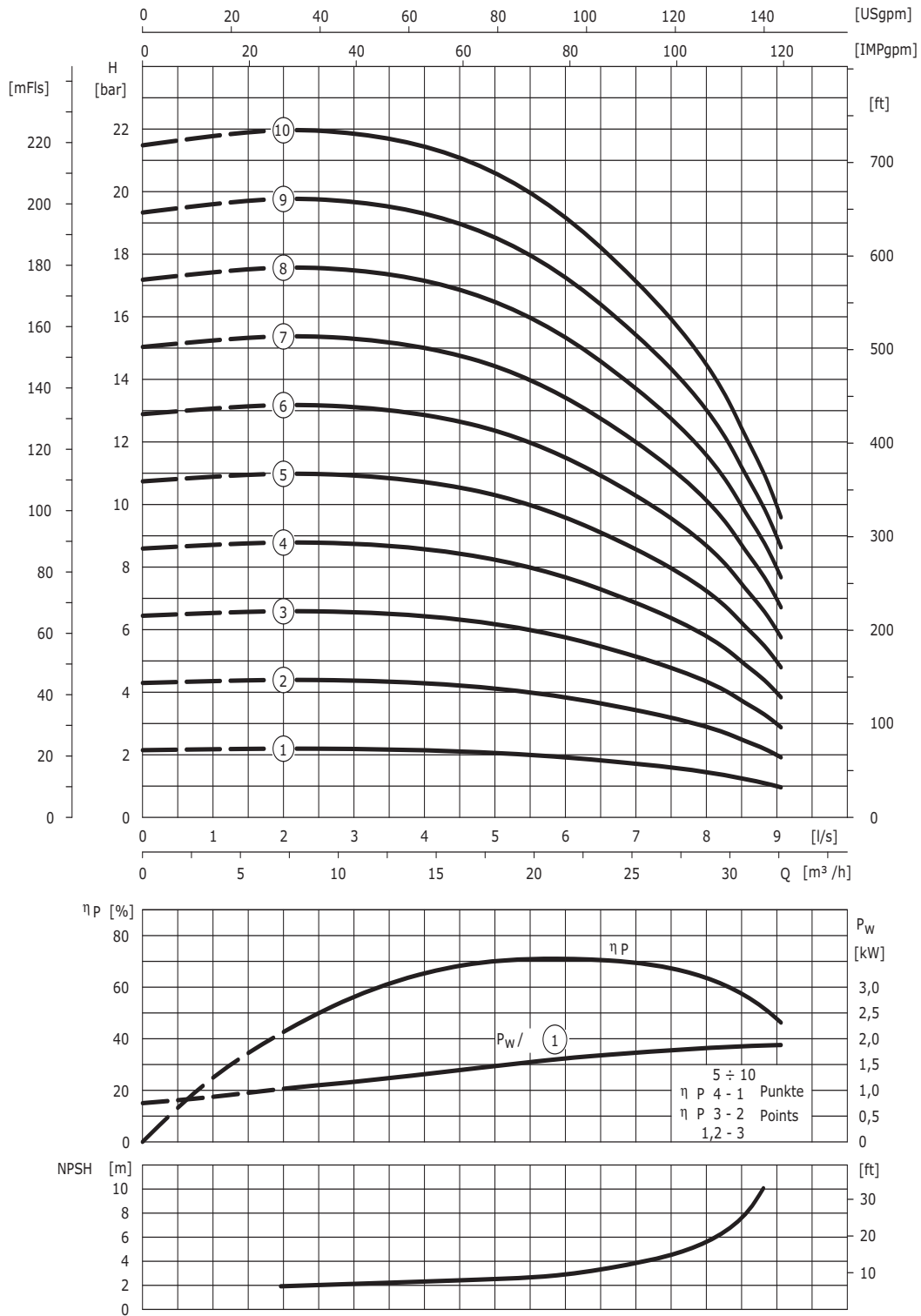


Water Supply Municipal/Industrial

Wilco-EMU 8" series

Pump curves Wilco-EMU NK 80

Wilco-EMU NK 80



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 80

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _W	I	
				[kW]	[A]	[kW]	[A]	
NK 80-1	1	A	NU60-2/23	5.50	12.20	2.20	6.70	V+H
NK 80-1	1	A	NU501-2/4	4.00	9.30	2.20	6.60	V+H
NK 80-2	2	A	NU60-2/23	5.50	12.20	4.20	10	V+H
NK 80-2	2	A	NU501-2/5	5.50	12.50	4.30	10.50	V+H
NK 80-3	3	A	NU60-2/24	9.00	19.80	6.30	15.20	V+H
NK 80-3	3	A	NU501-2/7	7.50	16	6.30	13.80	V+H
NK 80-4	4	A	NU60-2/24	9.00	19.80	8.10	18.10	V+H
NK 80-4	4	A	NU501-2/9	9.30	20.70	8.20	19	V+H
NK 80-5	5	A	NU60-2/32	12.50	27.50	10.30	23	V+H
NK 80-5	5	A	NU501-2/11	11.00	23.30	10.30	23	V+H
NK 80-6	6	A	NU60-2/32	12.50	27.50	12	26.50	V+H
NK 80-6	6	A	NU501-2/15	15.00	31.30	12.30	27	V+H
NK 80-7	7	A	NU60-2/40	15.50	32.50	14.20	30.50	V+H
NK 80-7	7	A	NU501-2/15	15.00	31.30	14.30	30.50	V+H
NK 80-8	8	A	NU60-2/51	21.00	44.50	16.50	36	V+H
NK 80-8	8	A	NU501-2/18	18.00	38.50	16.40	35	V+H
NK 80-9	9	A	NU60-2/51	21.00	44.50	18.30	39	V+H
NK 80-9	9	A	NU501-2/18	18.00	38.50	18.20	38	V+H
NK 80-10	10	A	NU60-2/51	21.00	44.50	20	42	V+H
NK 80-10	10	A	NU501-2/22	22.00	45.30	20.50	42	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. ø	-	-	-	-	-
	[mm]	-	[bar]	[mm]		[kg]	-	-	-	-
	G 3	I	10-64	⁵⁾	⁵⁾	⁵⁾	V+H	1	-	-

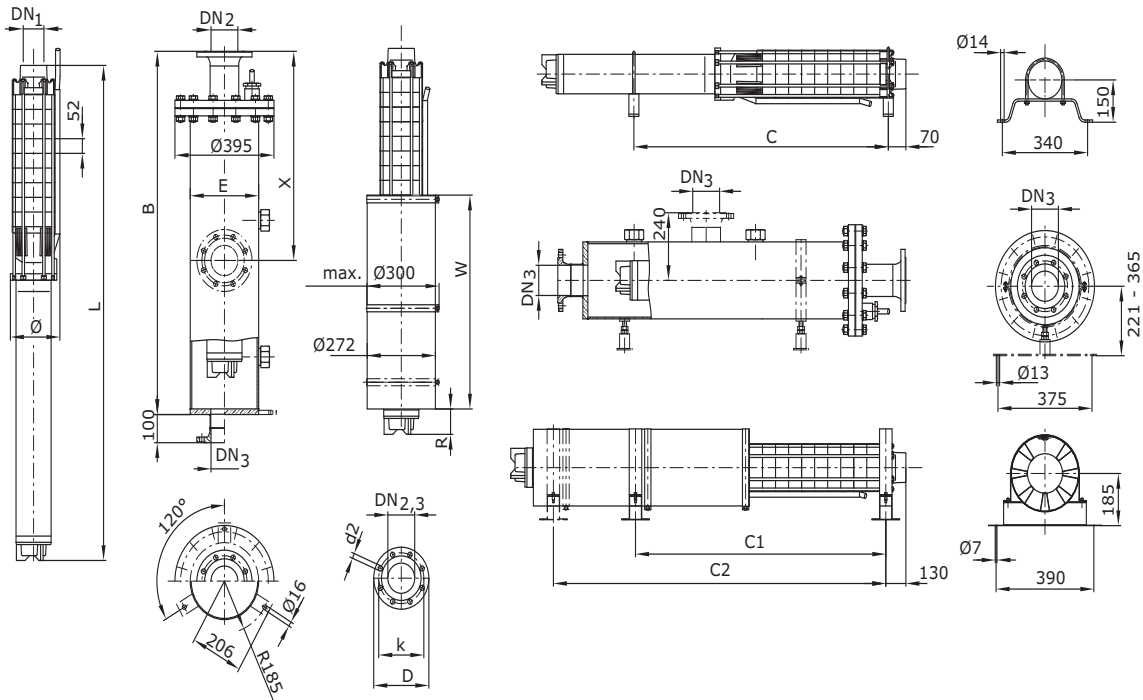
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU NK 80

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 80-1	NU60-2/23	1700	660	273	1061	190	67.0	108
NK 80-1	NU501-2/4	1400	610	273	972	195	58.0	100
NK 80-2	NU60-2/23	1700	710	273	1113	190	70.0	108
NK 80-2	NU501-2/5	1700	680	273	1058	195	64.0	108
NK 80-3	NU60-2/24	1700	770	273	1165	190	73.0	108
NK 80-3	NU501-2/7	1700	750	273	1141	195	72.0	108
NK 80-4	NU60-2/24	1700	820	273	1217	190	76.0	108
NK 80-4	NU501-2/9	1700	820	273	1226	195	77.0	108
NK 80-5	NU60-2/32	1700	910	273	1349	190	88.0	108
NK 80-5	NU501-2/11	1700	890	273	1310	195	84.0	108
NK 80-6	NU60-2/32	2000	960	273	1401	190	91.0	116
NK 80-6	NU501-2/15	2000	970	273	1427	195	92.0	116
NK 80-7	NU60-2/40	2000	1050	273	1533	190	102.0	116
NK 80-7	NU501-2/15	2000	1020	273	1479	195	96.0	116
NK 80-8	NU60-2/51	2300	1160	273	1685	190	115.0	124
NK 80-8	NU501-2/18	2000	1110	273	1597	195	105.0	116
NK 80-9	NU60-2/51	2300	1210	273	1737	190	118.0	124
NK 80-9	NU501-2/18	2300	1160	273	1649	195	108.0	124
NK 80-10	NU60-2/51	2300	1260	273	1789	194	121.0	124
NK 80-10	NU501-2/22	2300	1240	273	1766	195	117.0	124

Accessories Wilo-EMU NK 80

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 570	6 020 348	6 020 347
NU 501	–	6 038 570	6 020 348	6 020 347
NU 8...	–	1)	6 020 350	6 020 349

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		–		[mm]				
NK 80-1	NU60-2/23	6 043 232	6 043 168	750	621	–	–	129
NK 80-1	NU501-2/4	6 043 230	6 043 166	750	577	–	–	40
NK 80-2	NU60-2/23	6 043 232	6 043 168	750	673	–	–	129
NK 80-2	NU501-2/5	6 043 230	6 043 166	750	646	–	–	74
NK 80-3	NU60-2/24	6 043 232	6 043 168	750	725	–	–	129
NK 80-3	NU501-2/7	6 043 230	6 043 166	750	713	–	–	105
NK 80-4	NU60-2/24	6 043 232	6 043 168	750	777	–	–	129
NK 80-4	NU501-2/9	6 043 197	6 043 122	835	733	891	–	53
NK 80-5	NU60-2/32	6 043 201	6 043 126	835	785	960	–	124
NK 80-5	NU501-2/11	6 043 197	6 043 122	835	785	975	–	85
NK 80-6	NU60-2/32	6 043 201	6 043 126	835	837	1012	–	124
NK 80-6	NU501-2/15	6 043 197	6 043 122	835	837	1092	–	150
NK 80-7	NU60-2/40	6 043 206	6 043 131	985	1039	1144	–	54
NK 80-7	NU501-2/15	6 043 197	6 043 122	835	889	1144	–	150
NK 80-8	NU60-2/51	6 043 244	6 043 193	1000	1115	–	–	139
NK 80-8	NU501-2/18	6 043 241	6 043 190	1000	1071	–	–	51
NK 80-9	NU60-2/51	6 043 244	6 043 193	1000	1167	–	–	139
NK 80-9	NU501-2/18	6 043 241	6 043 190	1000	1123	–	–	51
NK 80-10	NU60-2/51	6 043 244	6 043 193	1000	1219	–	–	139
NK 80-10	NU501-2/22	6 043 241	6 043 190	1000	1208	–	–	116

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 80...	G 3 I	–	–	10-64	–	–	–	–	–
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	DN 100	DN 100	–	10-16	10	8x18	180	220
	–	DN 100	–	–	25-40	–	8x22	190	235
	–	–	DN 125	–	–	10	8x18	210	250
	–	–	DN 150	–	–	10	8x22	240	285

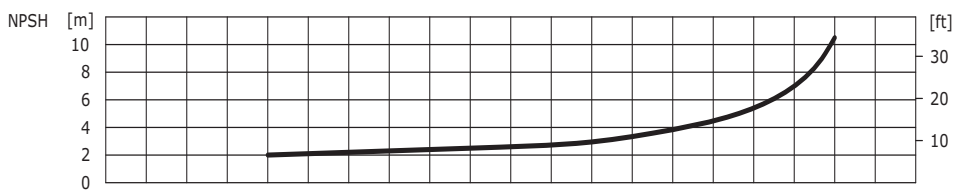
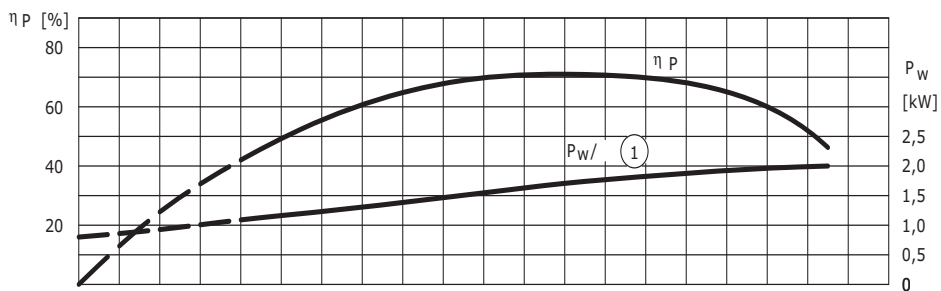
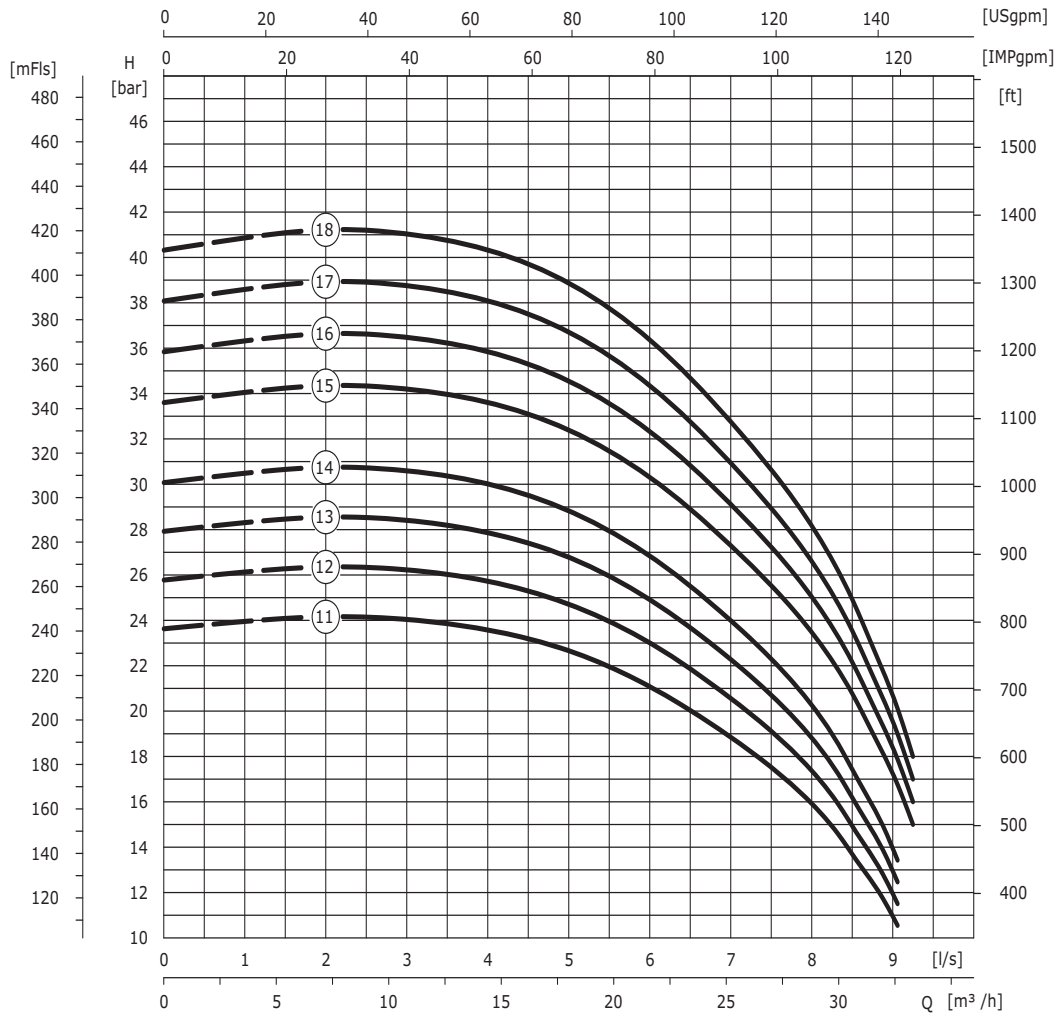
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilco-EMU 8" series

Pump curves Wilco-EMU NK 80

Wilco-EMU NK 80



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 80

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _W	I	
				[kW]	[A]	[kW]	[A]	
NK 80-11	11	A	NU60-2/61	25.00	52	22.60	47.50	V+H
NK 80-11	11	A	NU501-2/30	30.00	63.50	23	51	V+H
NK 80-12	12	A	NU60-2/61	25.00	52	24	50	V+H
NK 80-12	12	A	NU501-2/30	30.00	63.50	25.20	54	V+H
NK 80-13	13	A	NU601-2/74	30.00	67	26.80	63	V+H ¹⁾
NK 80-13	13	A	NU501-2/30	30.00	63.50	26.80	57	V+H ¹⁾
NK 80-14	14	A	NU601-2/74	30.00	67	28.40	65	V+H ¹⁾
NK 80-14	14	A	NU501-2/30	30.00	63.50	28.90	60	V+H ¹⁾
NK 80-15	15	A	NU801-2/40	32.00	63	32	63	V+H ¹⁾
NK 80-15	15	A	NU501-2/37	37.00	73	31.50	64	V+H ¹⁾
NK 80-15	15	A	NU611-2/82	34.00	71	31.50	66	V+H ¹⁾
NK 80-16	16	A	NU801-2/45	37.00	74	34.10	68	V+H ¹⁾
NK 80-16	16	A	NU501-2/37	37.00	73	34	68	V+H ¹⁾
NK 80-16	16	A	NU611-2/82	34.00	71	34	71	V+H ¹⁾
NK 80-17	17	A	NU801-2/45	37.00	74	36.20	72	V
NK 80-17	17	A	NU501-2/37	37.00	73	36	72	V
NK 80-17	17	A	NU611-2/90	37.00	77	36	76	V
NK 80-18	18	A	NU801-2/55	47.50	95	38.90	79	V
NK 80-18	18	A	NU501-2/45	45.00	93.30	37.80	79	V
NK 80-18	18	A	NU611-2/90	37.00	77	37	77	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	–	PN ₁	L	max. ø	–	–	–	–	–
	[mm]	–	[bar]	[mm]		[kg]	–	–	–	–
	G 3	I	10-64	⁵⁾	⁵⁾	⁵⁾	V+H	1	–	–

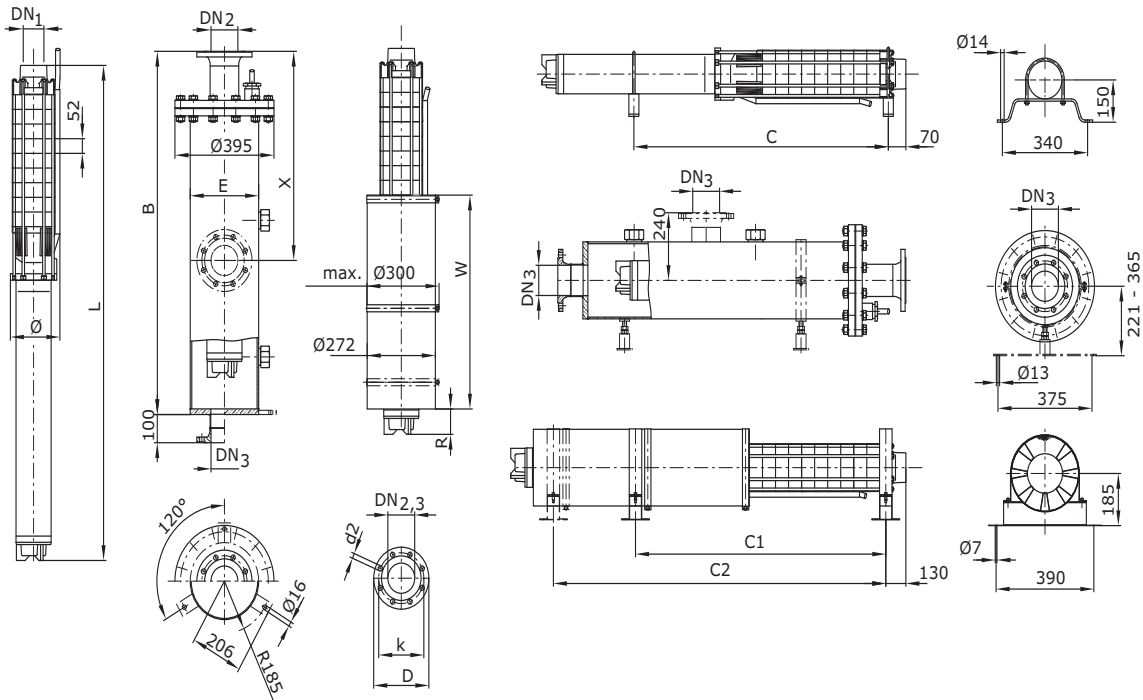
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU NK 80

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 80-11	NU60-2/61	2300	1360	273	1941	194	134.0	124
NK 80-11	NU501-2/30	2600	1360	273	1948	195	135.0	132
NK 80-12	NU60-2/61	2600	1410	273	1993	194	137.0	132
NK 80-12	NU501-2/30	2600	1410	273	2000	195	138.0	132
NK 80-13	NU601-2/74	2600	1530	273	2185	195	158.0	132
NK 80-13	NU501-2/30	2600	1460	273	2052	195	141.0	132
NK 80-14	NU601-2/74	2600	1590	273	2237	195	161.0	132
NK 80-14	NU501-2/30	2600	1520	273	2104	195	144.0	132
NK 80-15	NU801-2/40	2600	1560	273	2121	195	186.0	132
NK 80-15	NU501-2/37	2900	1750	273	2541	195	183.0	140
NK 80-15	NU611-2/82	2900	1710	273	2420	195	167.0	140
NK 80-16	NU801-2/45	2600	1630	273	2223	195	197.0	132
NK 80-16	NU501-2/37	1)	1800	1)	2593	195	186.0	1)
NK 80-16	NU611-2/82	2900	1750	273	2472	195	170.0	140
NK 80-17	NU801-2/45	2900	-	273	2275	197	200.0	140
NK 80-17	NU501-2/37	1)	-	1)	2645	195	189.0	1)
NK 80-17	NU611-2/90	1)	-	1)	2604	195	178.0	1)
NK 80-18	NU801-2/55	2900	-	273	2427	197	221.0	140
NK 80-18	NU501-2/45	1)	-	1)	2849	199	207.0	1)
NK 80-18	NU611-2/90	1)	-	1)	2656	195	181.0	1)

Accessories Wilо-EMU NK 80

Bearing brackets and anti-vortex plate

Wilо-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
	-			
NU 6...	-	6 038 570	6 020 348	6 020 347
NU 501	-	6 038 570	6 020 348	6 020 347
NU 8...	-	¹⁾	6 020 350	6 020 349

Cooling jacket pipes

Wilо-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		[mm]						
NK 80-11	NU60-2/61	6 043 214	6 043 143	1150	1247	1552	-	89
NK 80-11	NU501-2/30	6 043 210	6 043 138	1143	1247	1613	-	96
NK 80-12	NU60-2/61	6 043 214	6 043 143	1150	1299	1604	-	89
NK 80-12	NU501-2/30	6 043 210	6 043 138	1150	1299	1665	-	96
NK 80-13	NU601-2/74	-	6 043 158	1300	-	-	-	79
NK 80-13	NU501-2/30	-	6 043 138	1150	-	-	-	96
NK 80-14	NU601-2/74	-	6 043 158	1300	-	-	-	79
NK 80-14	NU501-2/30	-	6 043 138	1150	-	-	-	96
NK 80-15	NU801-2/40	-	6 043 146	1150	-	-	-	61
NK 80-15	NU501-2/37	-	6 043 169	1550	-	-	-	81
NK 80-15	NU611-2/82	-	6 043 149	1400	-	-	-	110
NK 80-16	NU801-2/45	-	6 043 146	1150	-	-	-	111
NK 80-16	NU501-2/37	-	6 043 169	1550	-	-	-	81
NK 80-16	NU611-2/82	-	6 043 149	1400	-	-	-	110
NK 80-17	NU801-2/45	-	6 043 146	1150	-	-	-	111
NK 80-17	NU501-2/37	-	6 043 169	1550	-	-	-	81
NK 80-17	NU611-2/90	-	6 043 172	1540	-	-	-	50
NK 80-18	NU801-2/55	-	6 043 160	1300	-	-	-	61
NK 80-18	NU501-2/45	-	6 043 182	1716	-	-	-	67
NK 80-18	NU611-2/90	-	6 043 149	1450	-	-	-	140

Flange dimensions

Wilо-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 80...	G 3 l	-	-	10-64	-	-	-	-	-
	-	DN 80	DN 80	-	10-40	10	8x18	160	200
	-	DN 100	DN 100	-	10-16	10	8x18	180	220
	-	DN 100	-	-	25-40	-	8x22	190	235
	-	-	DN 125	-	-	10	8x18	210	250
	-	-	DN 150	-	-	10	8x22	240	285

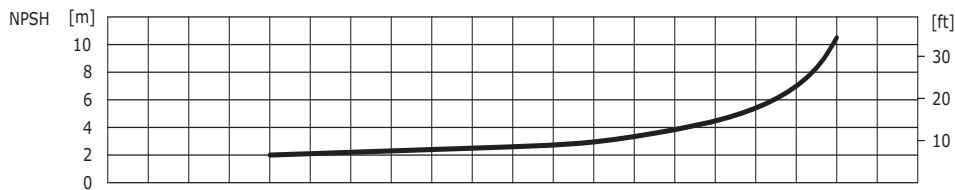
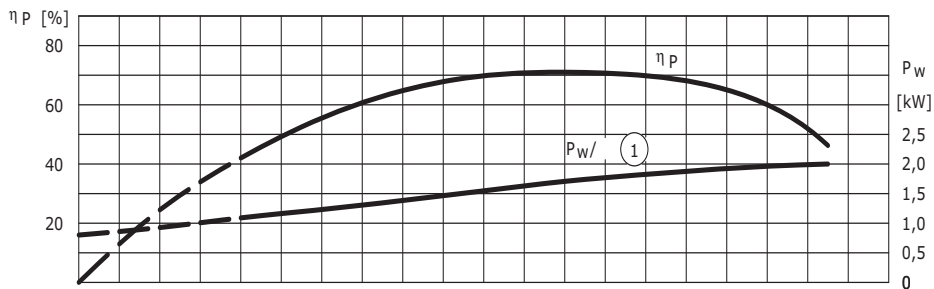
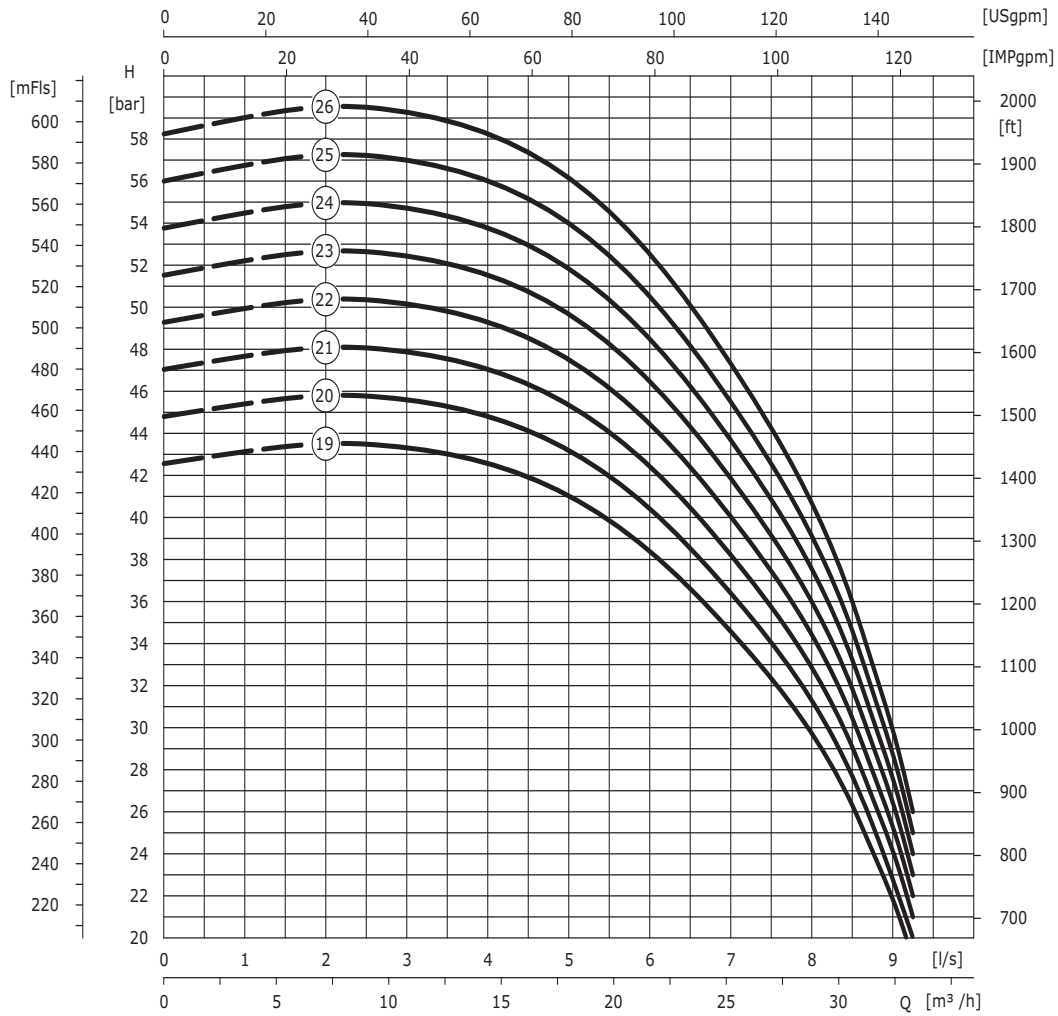
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilо-EMU 8" series

Pump curves Wilо-EMU NK 80

Wilо-EMU NK 80



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 80

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.		
				–	P_2	I_N	P_W		I	–
				–	[kW]	[A]	[kW]		[A]	–
NK 80-19	19	A	NU801-2/55	47.50	95	41	83	V		
NK 80-19	19	A	NU501-2/45	45.00	93.30	40	82	V		
NK 80-20	20	A	NU801-2/55	47.50	95	43	86	V		
NK 80-20	20	A	NU501-2/45	45.00	93.30	42	85	V		
NK 80-21	21	A	NU801-2/55	47.50	95	44.50	89	V		
NK 80-21	21	A	NU501-2/45	45.00	93.30	44	90	V		
NK 80-22	22	A	NU801-2/55	47.50	95	46.80	94	V		
NK 80-22	22	A	NU701-2/55	55.00	108	47.30	92	V		
NK 80-23	23	A	NU801-2/60	53.00	104	48.80	96	V		
NK 80-23	23	A	NU701-2/55	55.00	108	49.40	95	V		
NK 80-24	24	A	NU801-2/60	53.00	104	51	100	V		
NK 80-24	24	A	NU701-2/55	55.00	108	51.50	98	V		
NK 80-25	25	A	NU801-2/60	53.00	104	53	104	V		
NK 80-25	25	A	NU701-2/55	55.00	108	53	101	V		
NK 80-26	26	A	NU801-2/68	59.00	113	55	106	V		
NK 80-26	26	A	NU701-2/55	55.00	108	55	108	V		

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	–	PN ₁	L	max. ϕ			–		
	[mm]	–	[bar]	[mm]		[kg]		–		
	G 3	I	10-64	⁵⁾	⁵⁾	⁵⁾	V+H	1	–	–

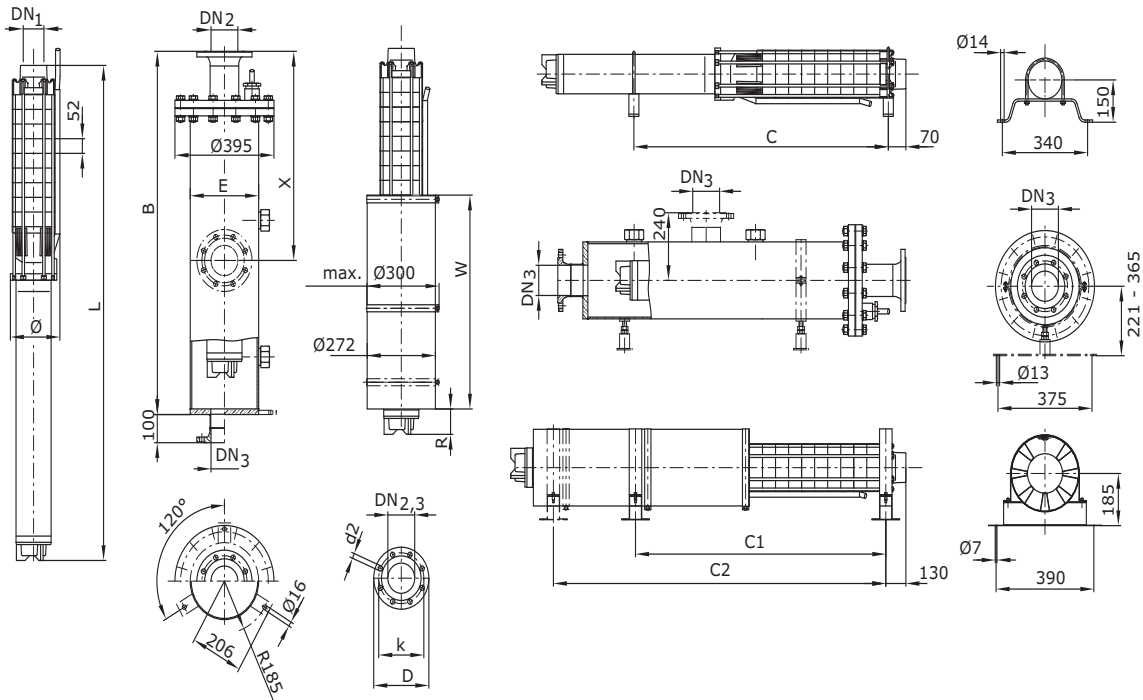
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU NK 80

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 80-19	NU801-2/55	2900	-	273	2479	197	224.0	140
NK 80-19	NU501-2/45	1)	-	1)	2901	199	210.0	1)
NK 80-20	NU801-2/55	2900	-	273	2531	197	228.0	140
NK 80-20	NU501-2/45	1)	-	1)	2953	199	213.0	1)
NK 80-21	NU801-2/55	1)	-	1)	2583	197	231.0	1)
NK 80-21	NU501-2/45	1)	-	1)	3005	199	216.0	1)
NK 80-22	NU801-2/55	1)	-	1)	2635	197	234.0	1)
NK 80-22	NU701-2/55	1)	-	1)	2694	200	264.0	1)
NK 80-23	NU801-2/60	1)	-	1)	2737	200	245.0	1)
NK 80-23	NU701-2/55	1)	-	1)	2746	200	267.0	1)
NK 80-24	NU801-2/60	1)	-	1)	2789	200	248.0	1)
NK 80-24	NU701-2/55	1)	-	1)	2798	200	270.0	1)
NK 80-25	NU801-2/60	1)	-	1)	2841	200	251.0	1)
NK 80-25	NU701-2/55	1)	-	1)	2850	200	273.0	1)
NK 80-26	NU801-2/68	1)	-	1)	2973	200	268.0	1)
NK 80-26	NU701-2/55	1)	-	1)	2902	200	276.0	1)

Accessories Wilo-EMU NK 80

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 570	6 020 348	6 020 347
NU 501	–	6 038 570	6 020 348	6 020 347
NU 8...	–	¹⁾	6 020 350	6 020 349

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		–		[mm]				
NK 80-19	NU801-2/55	–	6 043 160	1300	–	–	–	61
NK 80-19	NU501-2/45	–	6 043 182	1716	–	–	–	67
NK 80-20	NU801-2/55	–	6 043 160	1300	–	–	–	61
NK 80-20	NU501-2/45	–	6 043 182	1716	–	–	–	67
NK 80-21	NU801-2/55	–	6 043 160	1300	–	–	–	61
NK 80-21	NU501-2/45	–	6 043 182	1716	–	–	–	67
NK 80-22	NU801-2/55	–	6 043 160	1300	–	–	–	61
NK 80-22	NU701-2/55	–	6 043 163	1300	–	–	–	120
NK 80-23	NU801-2/60	–	6 043 160	1300	–	–	–	111
NK 80-23	NU701-2/55	–	6 043 163	1300	–	–	–	120
NK 80-24	NU801-2/60	–	6 043 160	1300	–	–	–	111
NK 80-24	NU701-2/55	–	6 043 163	1300	–	–	–	120
NK 80-25	NU801-2/60	–	6 043 160	1300	–	–	–	111
NK 80-25	NU701-2/55	–	6 043 163	1300	–	–	–	120
NK 80-26	NU801-2/68	–	6 043 152	1400	–	–	–	91
NK 80-26	NU701-2/55	–	6 043 163	1300	–	–	–	120

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 80...	G 3 l	–	–	10-64	–	–	–	–	–
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	DN 100	DN 100	–	10-16	10	8x18	180	220
	–	DN 100	–	–	25-40	–	8x22	190	235
	–	–	DN 125	–	–	10	8x18	210	250
	–	–	DN 150	–	–	10	8x22	240	285

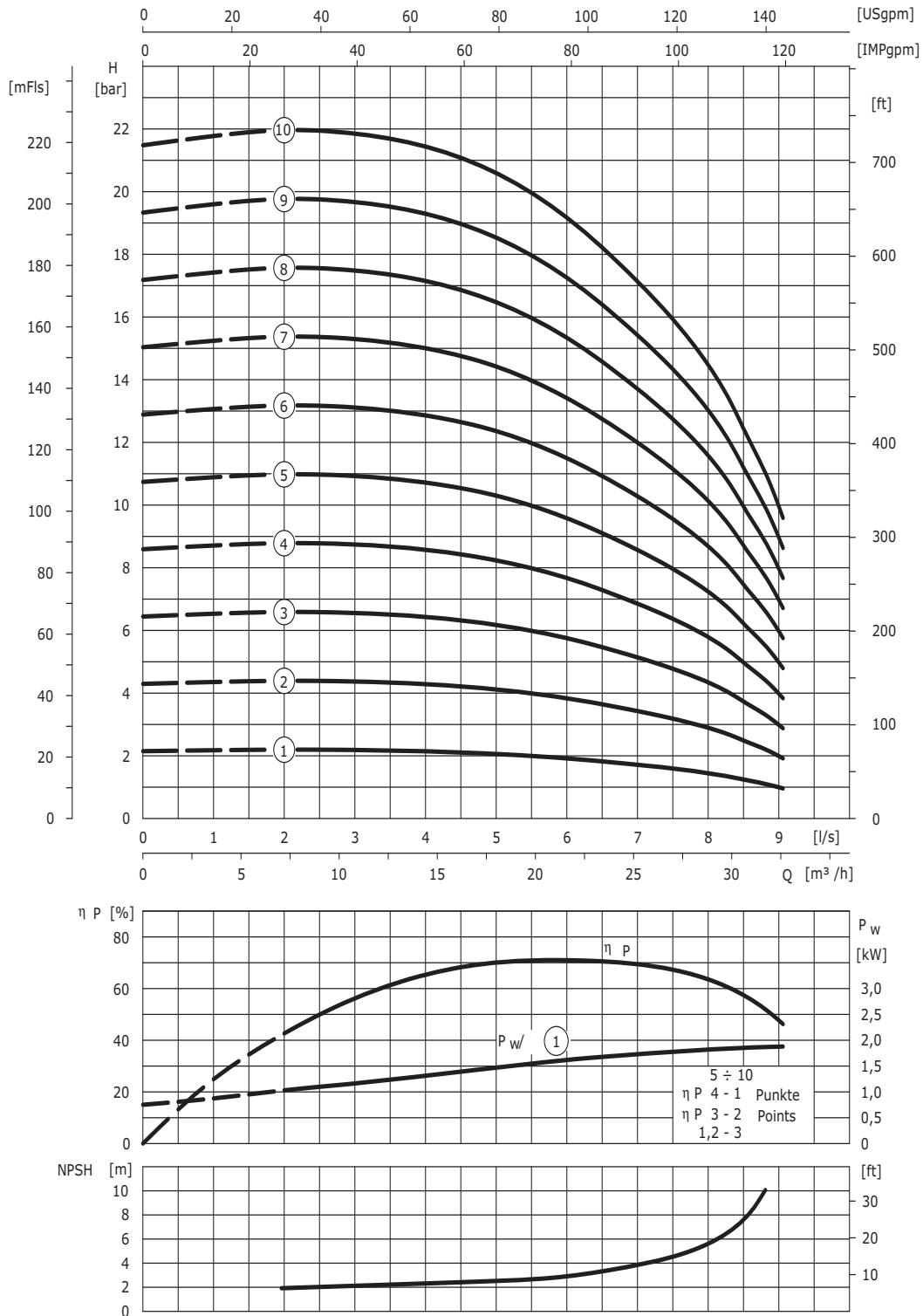
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Pump curves Wilo-EMU NK 80

Wilo-EMU NK 80.2



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 80

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _W	I	-
				[kW]	[A]	[kW]	[A]	-
NK 80.2-1	1	A	NU60-2/23	5.50	12.20	2.30	6.80	V+H
NK 80.2-1	1	A	NU501-2/4	4.00	9.30	2.30	6.70	V+H
NK 80.2-2	2	A	NU60-2/23	5.50	12.20	4.30	10.20	V+H
NK 80.2-2	2	A	NU501-2/5	5.50	12.50	4.30	10.50	V+H
NK 80.2-3	3	A	NU60-2/24	9.00	19.80	6.30	15.20	V+H
NK 80.2-3	3	A	NU501-2/7	7.50	16	6.30	13.80	V+H
NK 80.2-4	4	A	NU60-2/24	9.00	19.80	8.10	18.10	V+H
NK 80.2-4	4	A	NU501-2/9	9.30	20.70	8.30	19.10	V+H
NK 80.2-5	5	A	NU60-2/32	12.50	27.50	10.30	23	V+H
NK 80.2-5	5	A	NU501-2/11	11.00	23.30	10.30	22	V+H
NK 80.2-6	6	A	NU60-2/32	12.50	27.50	12	26.50	V+H
NK 80.2-6	6	A	NU501-2/15	15.00	31.30	12.40	27	V+H
NK 80.2-7	7	A	NU60-2/40	15.50	32.50	14.20	30.50	V+H
NK 80.2-7	7	A	NU501-2/15	15.00	31.30	14.30	30.50	V+H
NK 80.2-8	8	A	NU60-2/51	21.00	44.50	16.50	36	V+H
NK 80.2-8	8	A	NU501-2/18	18.50	38.50	16.40	35	V+H
NK 80.2-9	9	A	NU60-2/51	21.00	44.50	18.30	39	V+H
NK 80.2-9	9	A	NU501-2/18	18.50	38.50	18.20	38	V+H
NK 80.2-10	10	A	NU60-2/51	21.00	44.50	20	42	V+H
NK 80.2-10	10	A	NU501-2/22	22.00	45.30	20.50	42	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. ø	-	-	-	-	-
	[mm]	-	[bar]	[mm]		[kg]	-	-	-	-
	G 3	I	10-64	⁵⁾	⁵⁾	⁵⁾	V+H	1	-	-

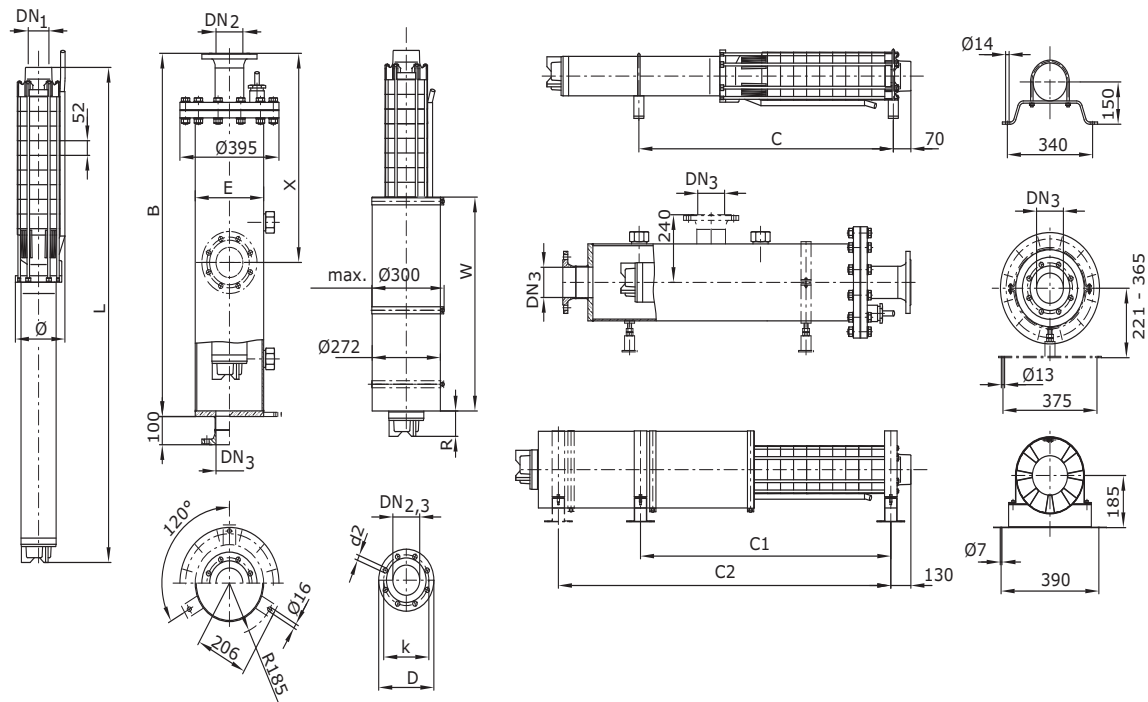
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU NK 80

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 80.2-1	NU60-2/23	1700	660	273	1061	190	67.0	108
NK 80.2-1	NU501-2/4	1400	610	273	972	195	58.0	100
NK 80.2-2	NU60-2/23	1700	710	273	1113	190	70.0	108
NK 80.2-2	NU501-2/5	1700	680	273	1058	195	64.0	108
NK 80.2-3	NU60-2/24	1700	770	273	1165	190	73.0	108
NK 80.2-3	NU501-2/7	1700	750	273	1141	195	72.0	108
NK 80.2-4	NU60-2/24	1700	820	273	1217	190	76.0	108
NK 80.2-4	NU501-2/9	1700	820	273	1226	195	77.0	108
NK 80.2-5	NU60-2/32	1700	910	273	1349	190	88.0	108
NK 80.2-5	NU501-2/11	1700	890	273	1310	195	84.0	108
NK 80.2-6	NU60-2/32	2000	960	273	1401	190	91.0	116
NK 80.2-6	NU501-2/15	2000	970	273	1427	195	92.0	116
NK 80.2-7	NU60-2/40	2000	1050	273	1533	190	102.0	116
NK 80.2-7	NU501-2/15	2000	1020	273	1479	195	96.0	116
NK 80.2-8	NU60-2/51	2300	1160	273	1685	190	115.0	124
NK 80.2-8	NU501-2/18	2000	1110	273	1597	195	105.0	116
NK 80.2-9	NU60-2/51	2300	1210	273	1737	190	118.0	124
NK 80.2-9	NU501-2/18	2300	1160	273	1649	195	108.0	124
NK 80.2-10	NU60-2/51	2300	1260	273	1789	194	121.0	124
NK 80.2-10	NU501-2/22	2300	1240	273	1766	195	117.0	124

Accessories Wilo-EMU NK 80

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 570	6 020 348	6 020 347
NU 501	–	6 038 570	6 020 348	6 020 347
NU 8...	–	1)	6 020 350	6 020 349

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		–		[mm]				
NK 80.2-1	NU60-2/23	6 043 232	6 043 168	750	621	–	–	129
NK 80.2-1	NU501-2/4	6 043 230	6 043 166	750	577	–	–	40
NK 80.2-2	NU60-2/23	6 043 232	6 043 168	750	673	–	–	129
NK 80.2-2	NU501-2/5	6 043 230	6 043 166	750	646	–	–	74
NK 80.2-3	NU60-2/24	6 043 232	6 043 168	750	725	–	–	129
NK 80.2-3	NU501-2/7	6 043 230	6 043 166	750	713	–	–	105
NK 80.2-4	NU60-2/24	6 043 232	6 043 168	750	777	–	–	129
NK 80.2-4	NU501-2/9	6 043 197	6 043 122	835	733	891	–	53
NK 80.2-5	NU60-2/32	6 043 201	6 043 126	835	785	960	–	124
NK 80.2-5	NU501-2/11	6 043 197	6 043 122	835	785	975	–	85
NK 80.2-6	NU60-2/32	6 043 201	6 043 126	835	837	1012	–	124
NK 80.2-6	NU501-2/15	6 043 197	6 043 122	835	837	1092	–	150
NK 80.2-7	NU60-2/40	6 043 206	6 043 131	985	1039	1144	–	54
NK 80.2-7	NU501-2/15	6 043 197	6 043 122	835	889	1144	–	150
NK 80.2-8	NU60-2/51	6 043 244	6 043 193	1000	1115	–	–	139
NK 80.2-8	NU501-2/18	6 043 241	6 043 190	1000	1071	–	–	51
NK 80.2-9	NU60-2/51	6 043 244	6 043 193	1000	1167	–	–	139
NK 80.2-9	NU501-2/18	6 043 241	6 043 190	1000	1123	–	–	51
NK 80.2-10	NU60-2/51	6 043 244	6 043 193	1000	1219	–	–	139
NK 80.2-10	NU501-2/22	6 043 241	6 043 190	1000	1208	–	–	116

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 80.2...	G 3 I	–	–	10-64	–	–	–	–	–
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	DN 100	DN 100	–	10-16	10	8x18	180	220
	–	DN 100	–	–	25-40	–	8x22	190	235
	–	–	DN 125	–	–	10	8x18	210	250
	–	–	DN 150	–	–	10	8x22	240	285

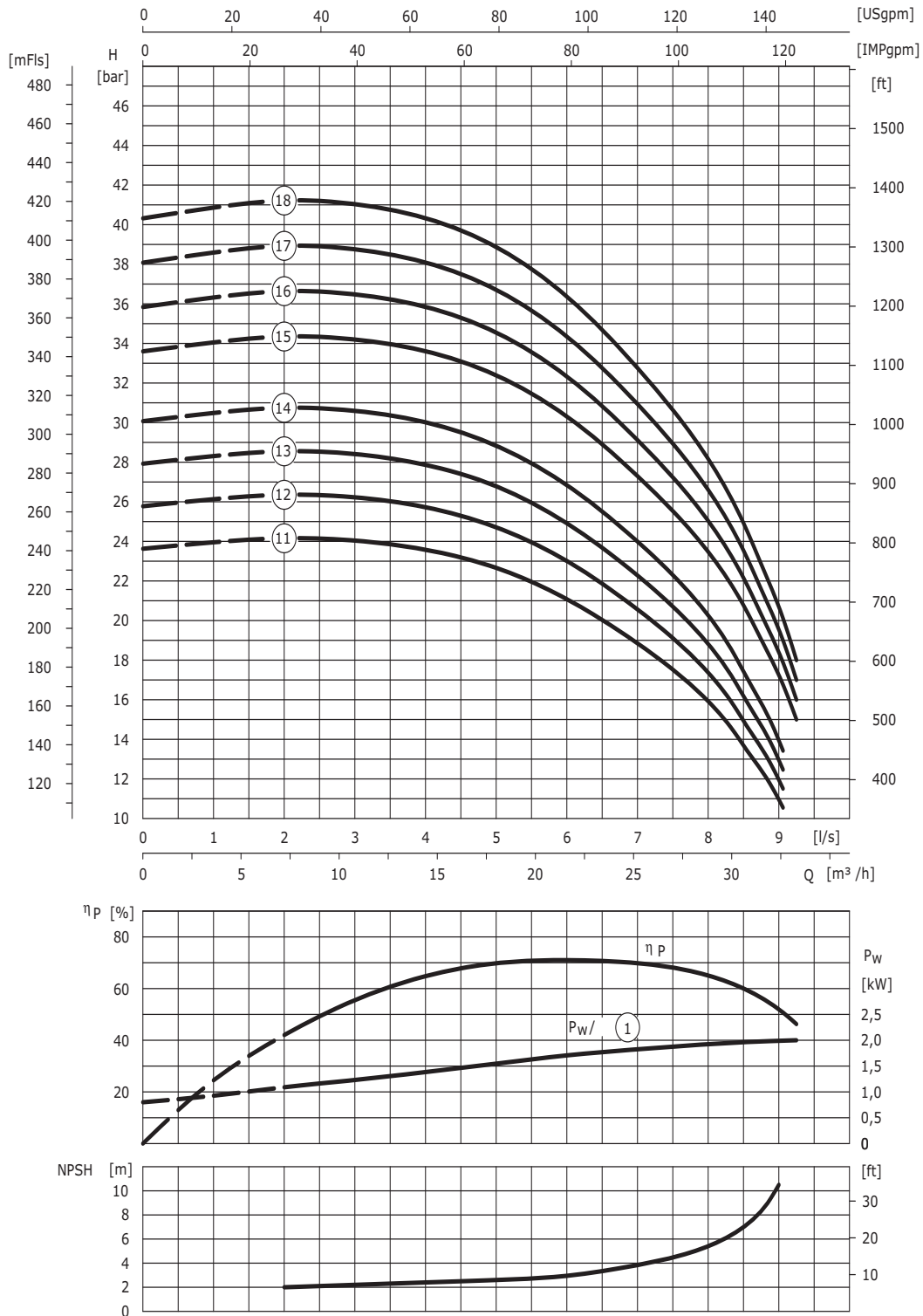
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilо-EMU 8" series

Pump curves Wilо-EMU NK 80.2

Wilо-EMU NK 80.2



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 80.2

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _w	I	
				[kW]	[A]	[kW]	[A]	
NK 80.2-11	11	A	NU60-2/61	25.00	52	22.60	47.50	V+H
NK 80.2-11	11	A	NU501-2/30	30.00	63.50	23.10	51	V+H
NK 80.2-12	12	A	NU60-2/61	25.00	52	24.20	51	V+H
NK 80.2-12	12	A	NU501-2/30	30.00	63.50	25.20	54	V+H
NK 80.2-13	13	A	NU601-2/74	30.00	67	26.80	63	V+H ¹⁾
NK 80.2-13	13	A	NU501-2/30	30.00	63.50	26.80	57	V+H ¹⁾
NK 80.2-14	14	A	NU601-2/74	30.00	67	28.40	65	V+H ¹⁾
NK 80.2-14	14	A	NU501-2/30	30.00	63.50	28.90	60	V+H ¹⁾
NK 80.2-15	15	A	NU801-2/40	32.00	63	32.10	63	V+H ¹⁾
NK 80.2-15	15	A	NU501-2/37	37.00	73	31.50	64	V+H ¹⁾
NK 80.2-15	15	A	NU611-2/82	34.00	71	30.50	65	V+H ¹⁾
NK 80.2-16	16	A	NU801-2/45	37.00	74	34.30	69	V+H ¹⁾
NK 80.2-16	16	A	NU501-2/37	37.00	73	33.60	67	V+H ¹⁾
NK 80.2-16	16	A	NU611-2/82	34.00	71	32.10	67	V+H ¹⁾
NK 80.2-17	17	A	NU801-2/45	37.00	74	36.20	72	V
NK 80.2-17	17	A	NU501-2/37	37.00	73	35.70	71	V
NK 80.2-17	17	A	NU611-2/90	37.00	77	34.50	73	V
NK 80.2-18	18	A	NU801-2/55	47.50	95	38.80	79	V
NK 80.2-18	18	A	NU501-2/45	45.00	93.30	37.80	78	V
NK 80.2-18	18	A	NU611-2/90	37.00	77	35.70	75	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. ø	-	-	-	-	-
	[mm]	-	[bar]	[mm]		[kg]	-	-	-	-
	G 3	I	10-64	⁵⁾	⁵⁾	⁵⁾	V+H	1	-	-

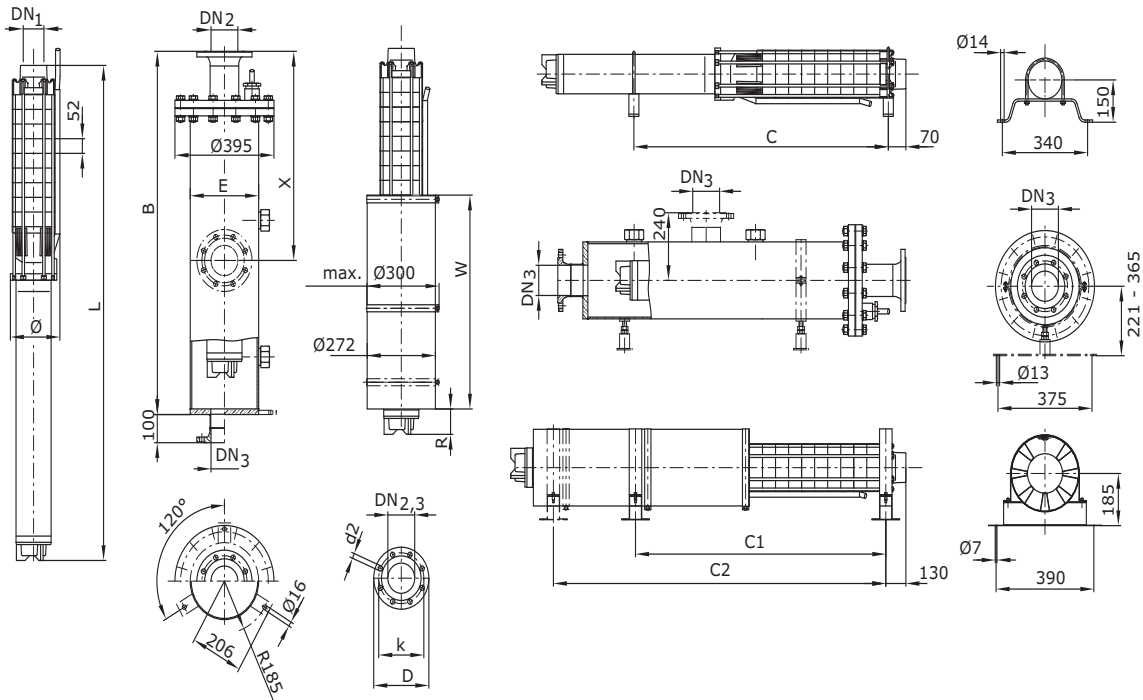
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU NK 80.2

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 80.2-11	NU60-2/61	2300	1360	273	1941	194	134.0	124
NK 80.2-11	NU501-2/30	2600	1360	273	1948	195	135.0	132
NK 80.2-12	NU60-2/61	2600	1410	273	1993	194	137.0	132
NK 80.2-12	NU501-2/30	2600	1410	273	2000	195	138.0	132
NK 80.2-13	NU601-2/74	2600	1530	273	2185	195	158.0	132
NK 80.2-13	NU501-2/30	2600	1460	273	2052	195	141.0	132
NK 80.2-14	NU601-2/74	2600	1590	273	2237	195	161.0	132
NK 80.2-14	NU501-2/30	2600	1520	273	2104	195	144.0	132
NK 80.2-15	NU801-2/40	2600	1560	273	2121	195	186.0	132
NK 80.2-15	NU501-2/37	2900	1750	273	2524	195	181.0	140
NK 80.2-15	NU611-2/82	2900	1710	273	2420	195	167.0	140
NK 80.2-16	NU801-2/45	2600	1630	273	2223	195	197.0	132
NK 80.2-16	NU501-2/37	¹⁾	1800	¹⁾	2593	195	186.0	¹⁾
NK 80.2-16	NU611-2/82	2900	1750	273	2472	195	170.0	140
NK 80.2-17	NU801-2/45	2900	-	273	2275	197	200.0	140
NK 80.2-17	NU501-2/37	¹⁾	-	¹⁾	2645	195	189.0	¹⁾
NK 80.2-17	NU611-2/90	¹⁾	-	¹⁾	2604	195	178.0	¹⁾
NK 80.2-18	NU801-2/55	2900	-	273	2427	197	221.0	140
NK 80.2-18	NU501-2/45	¹⁾	-	¹⁾	2849	199	207.0	¹⁾
NK 80.2-18	NU611-2/90	¹⁾	-	¹⁾	2656	195	181.0	¹⁾

Accessories Wilо-EMU NK 80.2

Bearing brackets and anti-vortex plate

Wilо-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
	-			
NU 6...	-	6 038 570	6 020 348	6 020 347
NU 501	-	6 038 570	6 020 348	6 020 347
NU 8...	-	¹⁾	6 020 350	6 020 349

Cooling jacket pipes

Wilо-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
	-	-		[mm]			-	
NK 80.2-11	NU60-2/61	6 043 214	6 043 143	1150	1247	1552	-	89
NK 80.2-11	NU501-2/30	6 043 210	6 043 138	1143	1247	1613	-	96
NK 80.2-12	NU60-2/61	6 043 214	6 043 143	1150	1299	1604	-	89
NK 80.2-12	NU501-2/30	6 043 210	6 043 138	1150	1299	1665	-	96
NK 80.2-13	NU601-2/74	-	6 043 158	1300	-	-	-	79
NK 80.2-13	NU501-2/30	-	6 043 138	1150	-	-	-	96
NK 80.2-14	NU601-2/74	-	6 043 158	1300	-	-	-	79
NK 80.2-14	NU501-2/30	-	6 043 138	1150	-	-	-	96
NK 80.2-15	NU801-2/40	-	6 043 146	1150	-	-	-	61
NK 80.2-15	NU501-2/37	-	6 043 169	1550	-	-	-	81
NK 80.2-15	NU611-2/82	-	6 043 149	1400	-	-	-	110
NK 80.2-16	NU801-2/45	-	6 043 146	1150	-	-	-	111
NK 80.2-16	NU501-2/37	-	6 043 169	1550	-	-	-	81
NK 80.2-16	NU611-2/82	-	6 043 149	1400	-	-	-	110
NK 80.2-17	NU801-2/45	-	6 043 146	1150	-	-	-	111
NK 80.2-17	NU501-2/37	-	6 043 169	1550	-	-	-	81
NK 80.2-17	NU611-2/90	-	6 043 172	1540	-	-	-	50
NK 80.2-18	NU801-2/55	-	6 043 160	1300	-	-	-	61
NK 80.2-18	NU501-2/45	-	6 043 182	1716	-	-	-	67
NK 80.2-18	NU611-2/90	-	6 043 149	1450	-	-	-	140

Flange dimensions

Wilо-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 80.2...	G 3 l	-	-	10-64	-	-	-	-	-
	-	DN 80	DN 80	-	10-40	10	8x18	160	200
	-	DN 100	DN 100	-	10-16	10	8x18	180	220
	-	DN 100	-	-	25-40	-	8x22	190	235
	-	-	DN 125	-	-	10	8x18	210	250
	-	-	DN 150	-	-	10	8x22	240	285

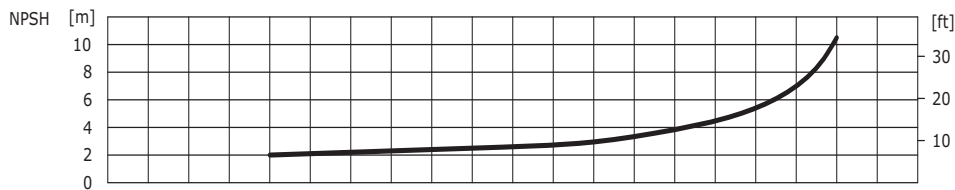
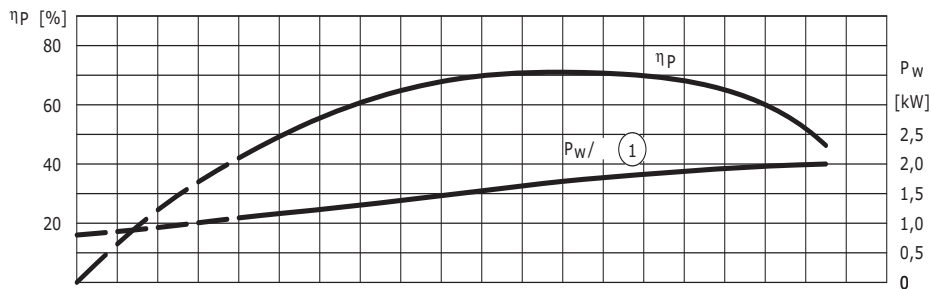
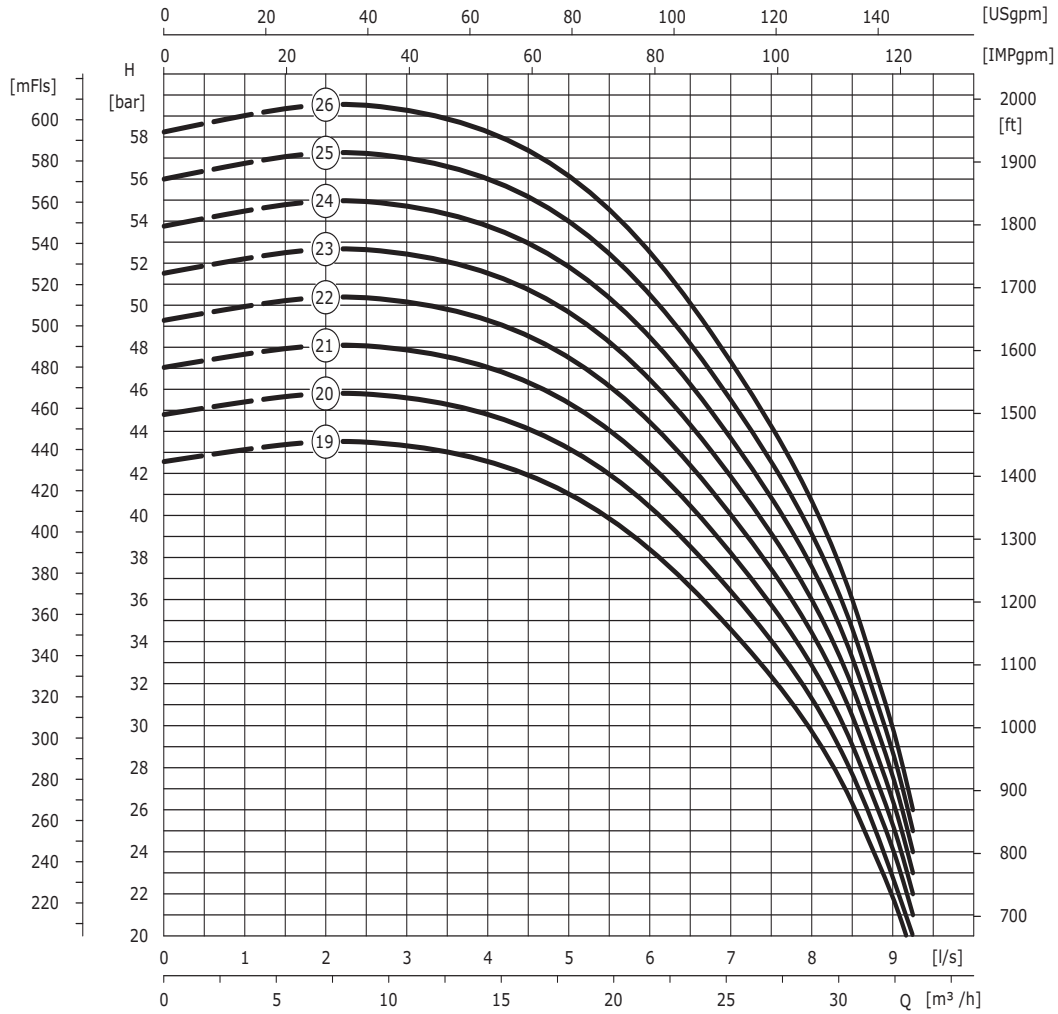
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilco-EMU 8" series

Pump curves Wilco-EMU NK 80.2

Wilco-EMU NK 80.2



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 80.2

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.		
				-	P_2	I_N	P_W		I	-
				-	[kW]	[A]	[kW]		[A]	-
NK 80.2-19	19	A	NU801-2/55	47.50	95	41	83	V		
NK 80.2-19	19	A	NU501-2/45	45.00	93.30	40	82	V		
NK 80.2-20	20	A	NU801-2/55	47.50	95	43	86	V		
NK 80.2-20	20	A	NU501-2/45	45.00	93.30	42	85	V		
NK 80.2-21	21	A	NU801-2/55	47.50	95	44.60	89	V		
NK 80.2-21	21	A	NU501-2/45	45.00	93.30	43.60	88	V		
NK 80.2-22	22	A	NU801-2/55	47.50	95	46.70	94	V		
NK 80.2-22	22	A	NU701-2/55	55.00	108	47.50	92	V		
NK 80.2-23	23	A	NU801-2/60	53.00	104	48.80	95	V		
NK 80.2-23	23	A	NU701-2/55	55.00	108	49.30	95	V		
NK 80.2-24	24	A	NU801-2/60	53.00	104	51	100	V		
NK 80.2-24	24	A	NU701-2/55	55.00	108	51.50	98	V		
NK 80.2-25	25	A	NU801-2/60	53.00	104	53.60	105	V		
NK 80.2-25	25	A	NU701-2/55	55.00	108	53.60	102	V		
NK 80.2-26	26	A	NU801-2/68	59.00	113	55	106	V		
NK 80.2-26	26	A	NU701-2/55	55.00	108	55	108	V		

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. ϕ			-		
	[mm]	-	[bar]	[mm]		[kg]		-		
	G 3	I	10-64	⁵⁾	⁵⁾	⁵⁾	V+H	1	-	-

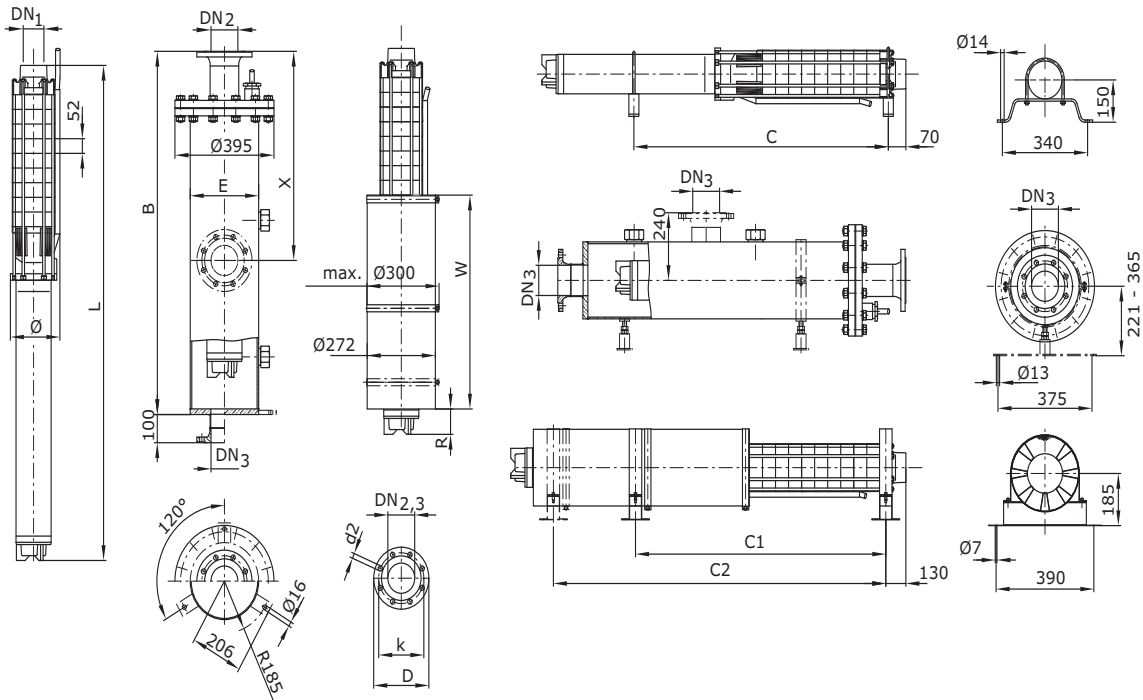
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU NK 80.2

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 80.2-19	NU801-2/55	2900	-	273	2479	197	224.0	140
NK 80.2-19	NU501-2/45	1)	-	1)	2901	199	210.0	1)
NK 80.2-20	NU801-2/55	2900	-	273	2531	197	228.0	140
NK 80.2-20	NU501-2/45	1)	-	1)	2953	199	214.0	1)
NK 80.2-21	NU801-2/55	1)	-	1)	2583	197	231.0	1)
NK 80.2-21	NU501-2/45	1)	-	1)	3005	199	217.0	1)
NK 80.2-22	NU801-2/55	1)	-	1)	2635	197	234.0	1)
NK 80.2-22	NU701-2/55	1)	-	1)	2694	200	264.0	1)
NK 80.2-23	NU801-2/60	1)	-	1)	2737	200	245.0	1)
NK 80.2-23	NU701-2/55	1)	-	1)	2746	200	267.0	1)
NK 80.2-24	NU801-2/60	1)	-	1)	2789	200	248.0	1)
NK 80.2-24	NU701-2/55	1)	-	1)	2798	200	270.0	1)
NK 80.2-25	NU801-2/60	1)	-	1)	2841	200	251.0	1)
NK 80.2-25	NU701-2/55	1)	-	1)	2850	200	273.0	1)
NK 80.2-26	NU801-2/68	1)	-	1)	2973	200	268.0	1)
NK 80.2-26	NU701-2/55	1)	-	1)	2902	200	276.0	1)

Accessories Wilo-EMU NK 80.2

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 570	6 020 348	6 020 347
NU 501	–	6 038 570	6 020 348	6 020 347
NU 8...	–	¹⁾	6 020 350	6 020 349

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		–		[mm]				
NK 80.2-19	NU801-2/55	–	6 043 160	1300	–	–	–	61
NK 80.2-19	NU501-2/45	–	6 043 182	1716	–	–	–	67
NK 80.2-20	NU801-2/55	–	6 043 160	1300	–	–	–	61
NK 80.2-20	NU501-2/45	–	6 043 182	1716	–	–	–	67
NK 80.2-21	NU801-2/55	–	6 043 160	1300	–	–	–	61
NK 80.2-21	NU501-2/45	–	6 043 182	1716	–	–	–	67
NK 80.2-22	NU801-2/55	–	6 043 160	1300	–	–	–	61
NK 80.2-22	NU701-2/55	–	6 043 163	1300	–	–	–	120
NK 80.2-23	NU801-2/60	–	6 043 160	1300	–	–	–	111
NK 80.2-23	NU701-2/55	–	6 043 163	1300	–	–	–	120
NK 80.2-24	NU801-2/60	–	6 043 160	1300	–	–	–	111
NK 80.2-24	NU701-2/55	–	6 043 163	1300	–	–	–	120
NK 80.2-25	NU801-2/60	–	6 043 160	1300	–	–	–	111
NK 80.2-25	NU701-2/55	–	6 043 163	1300	–	–	–	120
NK 80.2-26	NU801-2/68	–	6 043 152	1400	–	–	–	91
NK 80.2-26	NU701-2/55	–	6 043 163	1300	–	–	–	120

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 80.2...	G 3/1	–	–	10-64	–	–	–	–	–
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	DN 100	DN 100	–	10-16	10	8x18	180	220
	–	DN 100	–	–	25-40	–	8x22	190	235
	–	–	DN 125	–	–	10	8x18	210	250
	–	–	DN 150	–	–	10	8x22	240	285

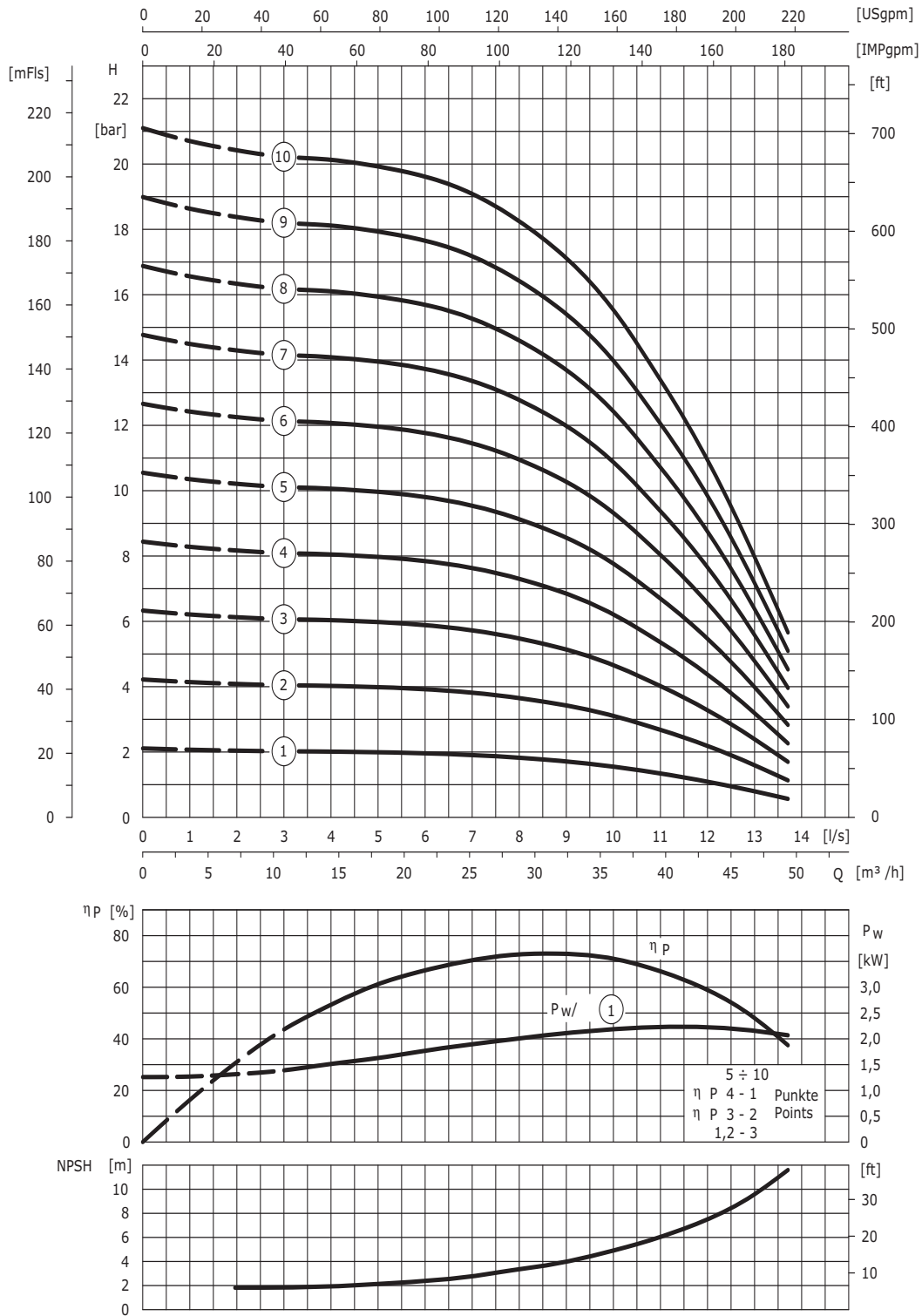
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilо-EMU 8" series

Pump curves Wilо-EMU NK 81

Wilо-EMU NK 81



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 81

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _W	I	-
				[kW]	[A]	[kW]	[A]	-
NK 81-1	1	A	NU60-2/23	5.50	12.20	2.70	7.50	V+H
NK 81-1	1	A	NU501-2/4	4.00	9.30	2.60	7.10	V+H
NK 81-2	2	A	NU60-2/23	5.50	12.20	5	11.50	V+H
NK 81-2	2	A	NU501-2/5	5.50	12.50	5	11.50	V+H
NK 81-3	3	A	NU60-2/24	9.00	19.80	7.30	16.80	V+H
NK 81-3	3	A	NU501-2/7	7.50	16	7.50	16	V+H
NK 81-4	4	A	NU60-2/32	12.50	27.50	9.90	22.50	V+H
NK 81-4	4	A	NU501-2/11	11.00	23.30	9.90	21.50	V+H
NK 81-5	5	A	NU60-2/32	12.50	27.50	12	26.50	V+H
NK 81-5	5	A	NU501-2/15	15.00	31.30	12.30	27	V+H
NK 81-6	6	A	NU60-2/40	15.50	32.50	14.40	30.50	V+H
NK 81-6	6	A	NU501-2/15	15.00	31.30	14.50	31	V+H
NK 81-7	7	A	NU60-2/51	21.00	44.50	17	36.50	V+H
NK 81-7	7	A	NU501-2/18	18.00	38.50	16.90	36	V+H
NK 81-8	8	A	NU60-2/51	21.00	44.50	19.20	40.50	V+H
NK 81-8	8	A	NU501-2/22	22.00	45.30	19.50	40.50	V+H
NK 81-9	9	A	NU60-2/61	25.00	52	22	46.50	V+H
NK 81-9	9	A	NU501-2/22	22.00	45.30	22	45.30	V+H
NK 81-10	10	A	NU60-2/61	25.00	52	24.20	51	V+H
NK 81-10	10	A	NU501-2/30	30.00	63.50	24.60	53	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. ø	-	-	-	-	-
	[mm]	-	[bar]	[mm]		[kg]	-	-	-	-
	G 3	I	10-64	⁵⁾	⁵⁾	⁵⁾	V+H	1	-	-

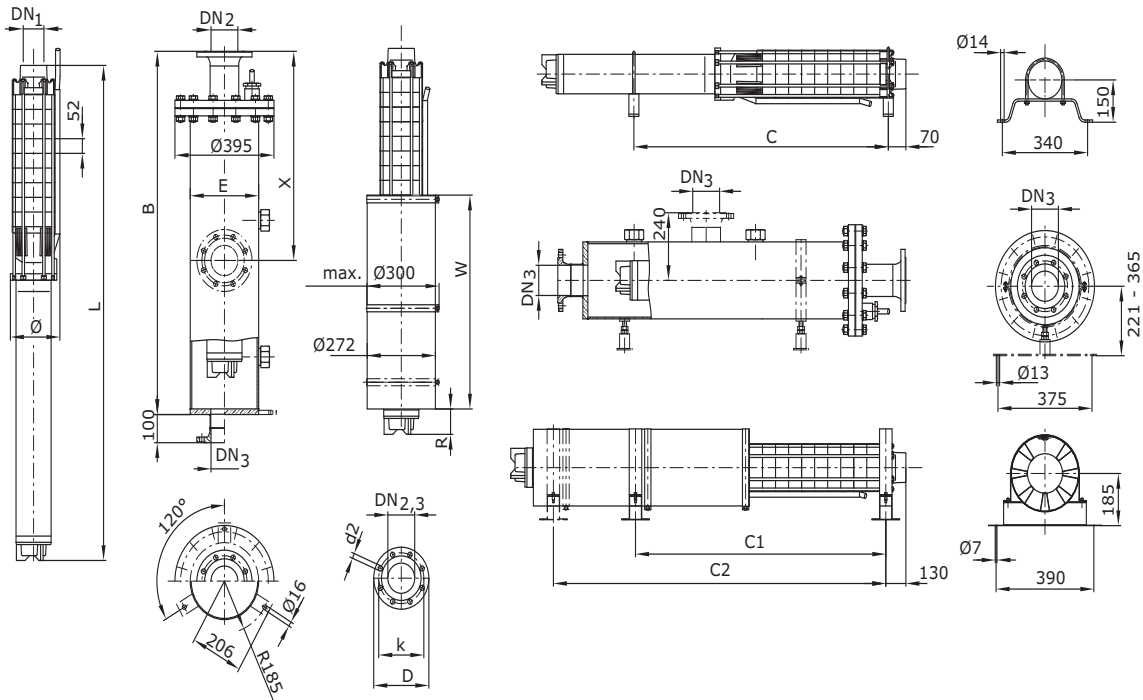
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU NK 81

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 81-1	NU60-2/23	1700	660	273	1061	190	67.0	108
NK 81-1	NU501-2/4	1400	610	273	972	195	58.0	100
NK 81-2	NU60-2/23	1700	710	273	1113	190	70.0	108
NK 81-2	NU501-2/5	1700	680	273	1058	195	64.0	108
NK 81-3	NU60-2/24	1700	770	273	1165	190	73.0	108
NK 81-3	NU501-2/7	1700	750	273	1141	195	72.0	108
NK 81-4	NU60-2/32	1700	860	273	1297	190	84.0	108
NK 81-4	NU501-2/11	1700	830	273	1258	195	80.0	108
NK 81-5	NU60-2/32	2000	910	273	1349	190	88.0	116
NK 81-5	NU501-2/15	2000	920	273	1375	195	90.0	116
NK 81-6	NU60-2/40	2000	1000	273	1481	190	99.0	116
NK 81-6	NU501-2/15	2000	970	273	1427	195	92.0	116
NK 81-7	NU60-2/51	2000	1100	273	1633	190	112.0	116
NK 81-7	NU501-2/18	2000	1050	273	1545	195	102.0	116
NK 81-8	NU60-2/51	2300	1160	273	1685	194	115.0	124
NK 81-8	NU501-2/22	2300	1140	273	1662	195	111.0	124
NK 81-9	NU60-2/61	2300	1260	273	1837	194	128.0	124
NK 81-9	NU501-2/22	2300	1190	273	1714	195	114.0	124
NK 81-10	NU60-2/61	2300	1310	273	1889	194	131.0	124
NK 81-10	NU501-2/30	2300	1310	273	1896	195	132.0	124

Accessories Wilo-EMU NK 81

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 570	6 020 348	6 020 347
NU 501	–	6 038 570	6 020 348	6 020 347
NU 8...	–	1)	6 020 350	6 020 349

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		–		[mm]				
NK 81-1	NU60-2/23	6 043 232	6 043 168	750	621	–	–	129
NK 81-1	NU501-2/4	6 043 230	6 043 166	750	577	–	–	40
NK 81-2	NU60-2/23	6 043 232	6 043 168	750	673	–	–	129
NK 81-2	NU501-2/5	6 043 230	6 043 166	750	646	–	–	74
NK 81-3	NU60-2/24	6 043 232	6 043 168	750	725	–	–	129
NK 81-3	NU501-2/7	6 043 230	6 043 166	750	713	–	–	105
NK 81-4	NU60-2/32	6 043 201	6 043 126	835	733	908	–	124
NK 81-4	NU501-2/11	6 043 197	6 043 122	835	733	923	–	85
NK 81-5	NU60-2/32	6 043 201	6 043 126	835	785	960	–	124
NK 81-5	NU501-2/15	6 043 197	6 043 122	835	785	1040	–	150
NK 81-6	NU60-2/40	6 043 206	6 043 131	985	987	1092	–	54
NK 81-6	NU501-2/15	6 043 197	6 043 122	835	837	1092	–	150
NK 81-7	NU60-2/51	6 043 244	6 043 193	1000	1063	–	–	139
NK 81-7	NU501-2/18	6 043 241	6 043 190	1000	1019	–	–	51
NK 81-8	NU60-2/51	6 043 244	6 043 193	1000	1115	–	–	139
NK 81-8	NU501-2/22	6 043 241	6 043 190	1000	1104	–	–	116
NK 81-9	NU60-2/61	6 043 214	6 043 143	1150	1143	1448	–	89
NK 81-9	NU501-2/22	6 043 241	6 043 190	1000	1156	–	–	116
NK 81-10	NU60-2/61	6 043 214	6 043 143	1150	1195	1500	–	89
NK 81-10	NU501-2/30	6 043 210	6 043 138	1150	1195	1561	–	96

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 81...	G 3 I	–	–	10-64	–	–	–	–	–
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	DN 100	DN 100	–	10-16	10	8x18	180	220
	–	DN 100	–	–	25-40	–	8x22	190	235
	–	–	DN 125	–	–	10	8x18	210	250
	–	–	DN 150	–	–	10	8x22	240	285

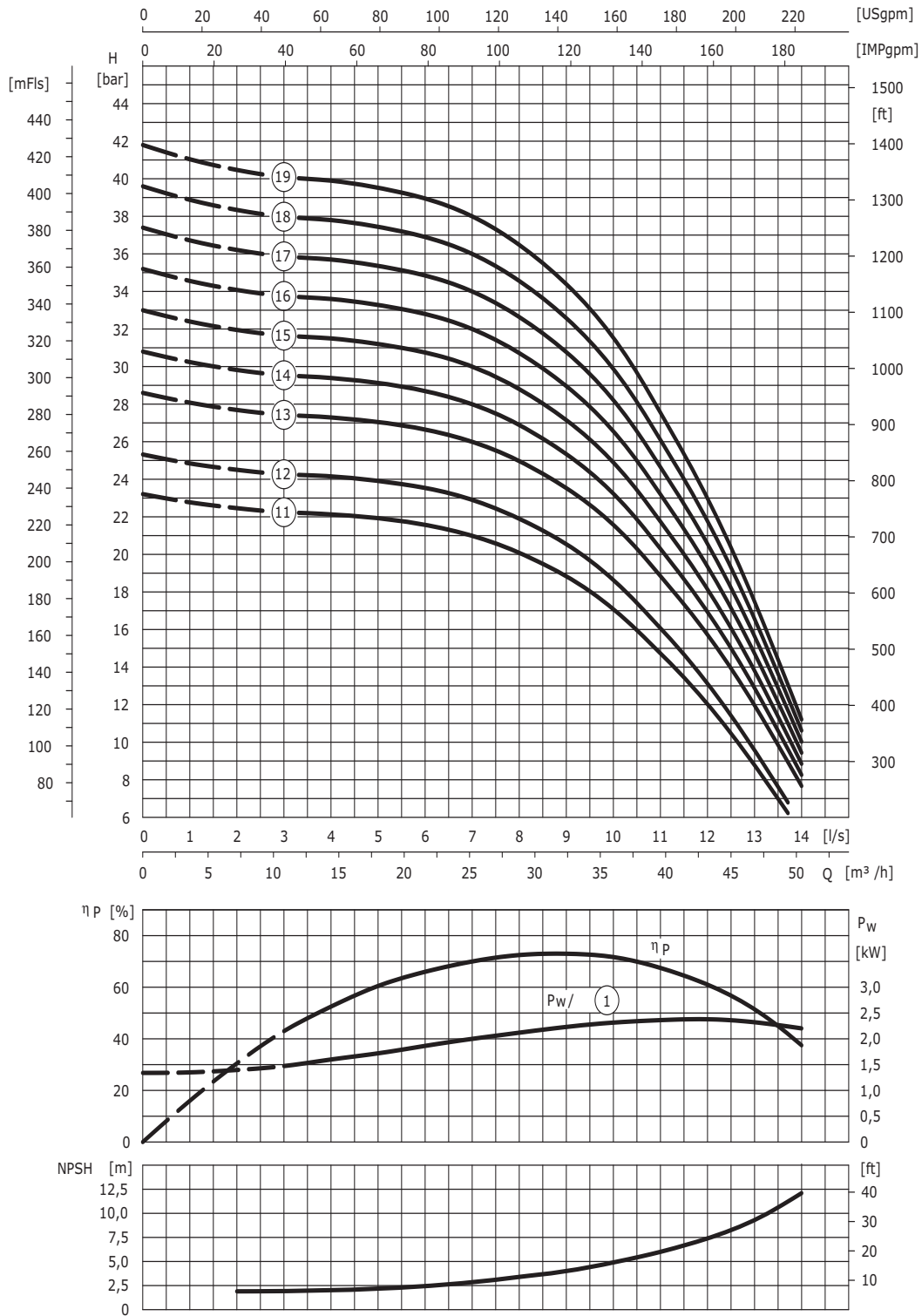
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilо-EMU 8" series

Pump curves Wilо-EMU NK 81

Wilо-EMU NK 81



400 V, 50 Hz, ρ = 1 kg/dm³, ν = 1 × 10⁻⁶ m²/s, ISO 9906 appendix A

Technical data Wilo-EMU NK 81

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _W	I	
				[kW]	[A]	[kW]	[A]	
NK 81-11	11	A	NU601-2/74	30.00	67	26.80	63	V+H
NK 81-11	11	A	NU501-2/30	30.00	63.50	26.80	57	V+H
NK 81-12	12	A	NU601-2/74	30.00	67	29	65	V+H
NK 81-12	12	A	NU501-2/30	30.00	63.50	29.40	61	V+H
NK 81-13	13	A	NU801-2/45	37.00	74	33	66	V+H ¹⁾
NK 81-13	13	A	NU501-2/37	37.00	73	32.50	66	V+H ¹⁾
NK 81-13	13	A	NU611-2/82	34.00	71	31	66	V+H ¹⁾
NK 81-14	14	A	NU801-2/45	37.00	74	35.20	70	V+H ¹⁾
NK 81-14	14	A	NU501-2/37	37.00	73	34.70	69	V+H ¹⁾
NK 81-14	14	A	NU611-2/82	34.00	71	33	69	V+H ¹⁾
NK 81-15	15	A	NU801-2/45	37.00	74	37	94	V+H ¹⁾
NK 81-15	15	A	NU501-2/37	37.00	73	37	73	V+H ¹⁾
NK 81-16	16	A	NU801-2/55	47.50	95	41	83	V+H ¹⁾
NK 81-16	16	A	NU501-2/45	45.00	93.30	39.40	81	V+H ¹⁾
NK 81-17	17	A	NU801-2/55	47.50	95	43	86	V
NK 81-17	17	A	NU501-2/45	45.00	93.30	42	85	V
NK 81-18	18	A	NU801-2/55	47.50	95	45.70	92	V
NK 81-18	18	A	NU501-2/45	45.00	93.30	44.10	89	V
NK 81-19	19	A	NU801-2/55	47.50	95	47.50	95	V
NK 81-19	19	A	NU701-2/55	55.00	108	48.30	94	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	–	PN ₁	L	max. ø	–	–	–	–	–
	[mm]	–	[bar]	[mm]		[kg]	–	–	–	–
	G 3	I	10-64	⁵⁾	⁵⁾	⁵⁾	V+H	1	–	–

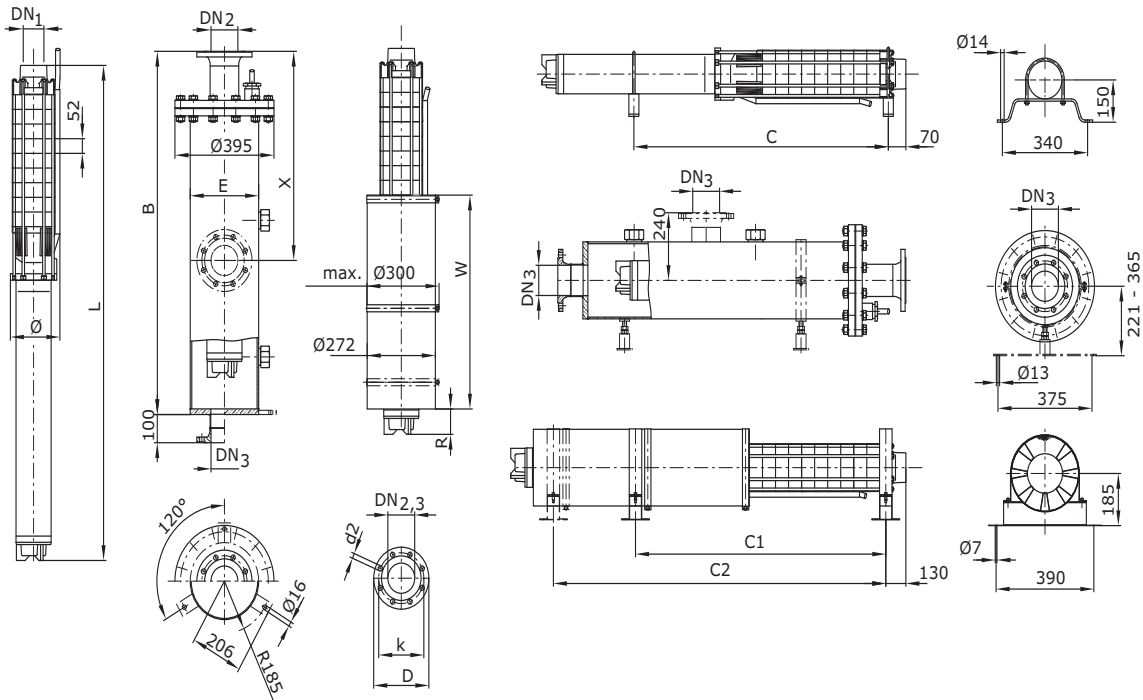
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU NK 81

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 81-11	NU601-2/74	2600	1430	273	2081	195	152.0	132
NK 81-11	NU501-2/30	2600	1360	273	1948	195	135.0	132
NK 81-12	NU601-2/74	2600	1480	273	2133	195	155.0	132
NK 81-12	NU501-2/30	2600	1410	273	2000	195	138.0	132
NK 81-13	NU801-2/45	2600	1470	273	2067	195	188.0	132
NK 81-13	NU501-2/37	2900	1650	273	2437	195	176.0	140
NK 81-13	NU611-2/82	2900	1600	273	2316	195	160.0	140
NK 81-14	NU801-2/45	2600	1520	273	2119	197	191.0	132
NK 81-14	NU501-2/37	2900	1700	273	2489	195	179.0	140
NK 81-14	NU611-2/82	2900	1650	273	2368	195	163.0	140
NK 81-15	NU801-2/45	2600	1570	273	2171	197	194.0	132
NK 81-15	NU501-2/37	2900	1750	273	2541	195	183.0	140
NK 81-16	NU801-2/55	2900	1680	273	2323	197	215.0	140
NK 81-16	NU501-2/45	1)	1880	1)	2745	199	201.0	1)
NK 81-17	NU801-2/55	2900	-	273	2375	197	218.0	140
NK 81-17	NU501-2/45	1)	-	1)	2797	199	204.0	1)
NK 81-18	NU801-2/55	2900	-	273	2427	197	221.0	140
NK 81-18	NU501-2/45	1)	-	1)	2849	199	207.0	1)
NK 81-19	NU801-2/55	2900	-	273	2479	197	224.0	140
NK 81-19	NU701-2/55	2900	-	273	2538	200	254.0	140

Accessories Wilo-EMU NK 81

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 570	6 020 348	6 020 347
NU 501	–	6 038 570	6 020 348	6 020 347
NU 8...	–	¹⁾	6 020 350	6 020 349

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		–		[mm]				
NK 81-11	NU601-2/74	6 043 224	6 043 158	1300	1247	1692	–	79
NK 81-11	NU501-2/30	6 043 210	6 043 138	1150	1247	1613	–	96
NK 81-12	NU601-2/74	6 043 224	6 043 158	1300	1299	1744	–	79
NK 81-12	NU501-2/30	6 043 210	6 043 138	1150	1299	1665	–	96
NK 81-13	NU801-2/45	–	6 043 146	1150	–	–	–	111
NK 81-13	NU501-2/37	–	6 043 169	1550	–	–	–	81
NK 81-13	NU611-2/82	–	6 043 149	1400	–	–	–	110
NK 81-14	NU801-2/45	–	6 043 146	1150	–	–	–	111
NK 81-14	NU501-2/37	–	6 043 169	1550	–	–	–	81
NK 81-14	NU611-2/82	–	6 043 149	1400	–	–	–	110
NK 81-15	NU801-2/45	–	6 043 146	1150	–	–	–	111
NK 81-15	NU501-2/37	–	6 043 169	1550	–	–	–	64
NK 81-16	NU801-2/55	–	6 043 160	1300	–	–	–	61
NK 81-16	NU501-2/45	–	6 043 182	1716	–	–	–	67
NK 81-17	NU801-2/55	–	6 043 160	1300	–	–	–	61
NK 81-17	NU501-2/45	–	6 043 182	1716	–	–	–	67
NK 81-18	NU801-2/55	–	6 043 160	1300	–	–	–	61
NK 81-18	NU501-2/45	–	6 043 182	1716	–	–	–	67
NK 81-19	NU801-2/55	–	6 043 160	1300	–	–	–	61
NK 81-19	NU701-2/55	–	6 043 163	1300	–	–	–	120

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 81...	G 3/1	–	–	10-64	–	–	–	–	–
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	DN 100	DN 100	–	10-16	10	8x18	180	220
	–	DN 100	–	–	25-40	–	8x22	190	235
	–	–	DN 125	–	–	10	8x18	210	250
	–	–	DN 150	–	–	10	8x22	240	285

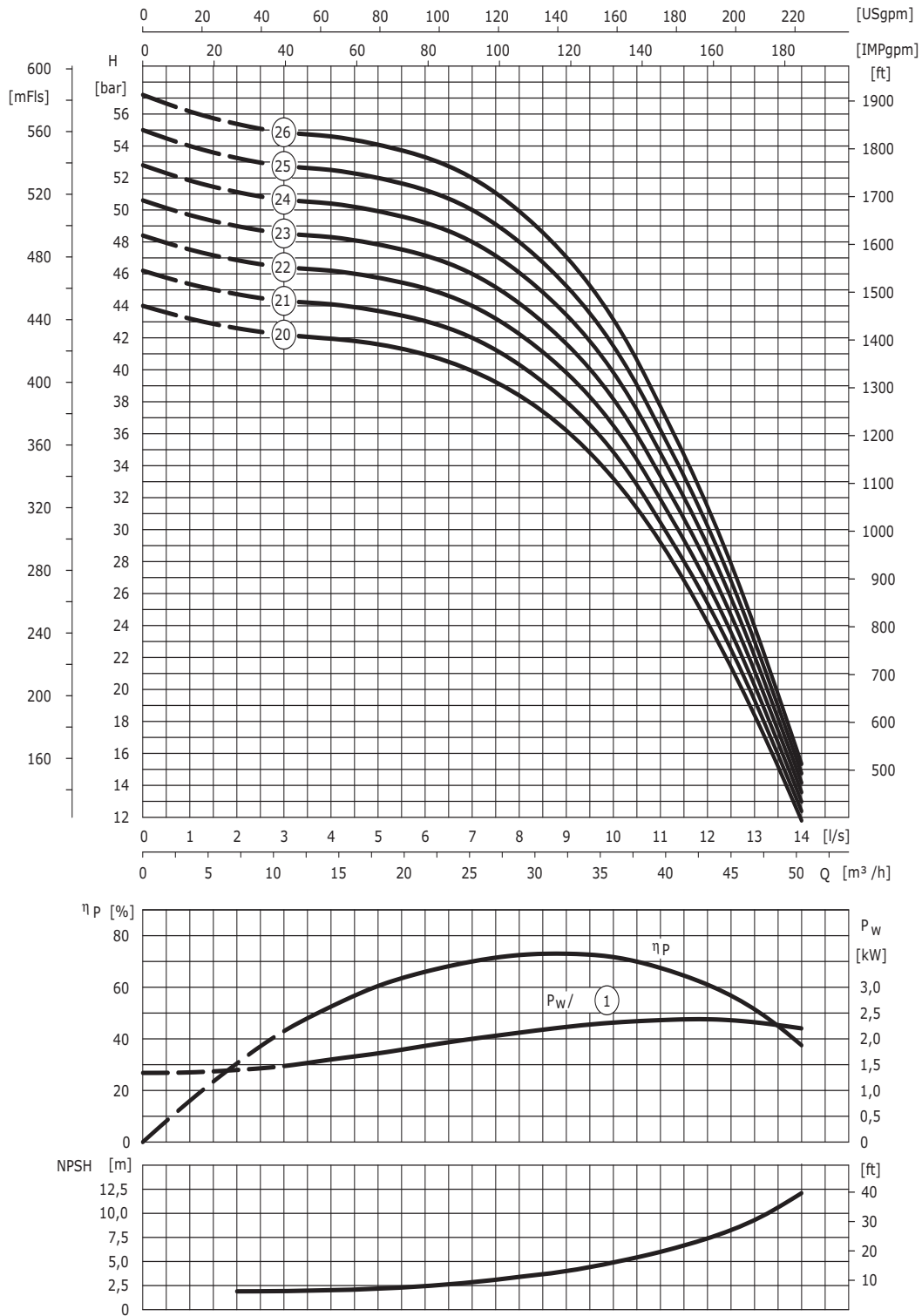
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilо-EMU 8" series

Pump curves Wilо-EMU NK 81

Wilо-EMU NK 81



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 81

Technical data

Wilo-EMU...	No.	Availability*	Motor type	Nominal power	Nominal current	Shaft power	Current for power requirement of the shaft	Inst.
				P_2	I_N	P_w	I	
				[kW]	[A]	[kW]	[A]	
NK 81-20	20	A	NU801-2/60	53.00	104	50.40	99	V
NK 81-20	20	A	NU701-2/55	55.00	108	50.90	97	V
NK 81-21	21	A	NU801-2/60	53.00	104	52.50	103	V
NK 81-21	21	A	NU701-2/55	55.00	108	53.50	102	V
NK 81-22	22	A	NU801-2/68	59.00	113	55.70	107	V
NK 81-22	22	A	NU701-2/75	75.00	145	56.70	115	V
NK 81-23	23	A	NU801-2/68	59.00	113	58.80	113	V
NK 81-23	23	A	NU701-2/75	75.00	145	59.90	119	V
NK 81-24	24	A	NU801-2/75	65.00	129	61	121	V
NK 81-24	24	A	NU701-2/75	75.00	145	61	121	V
NK 81-25	25	A	NU801-2/75	65.00	129	63	125	V
NK 81-25	25	A	NU701-2/75	75.00	145	64	125	V
NK 81-26	26	A	NU801-2/87	75.00	145	66.20	129	V
NK 81-26	26	A	NU701-2/75	75.00	145	66.20	129	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN_1	-	PN_1	L	max. ϕ	-	-	-	-	-
	[mm]	-	[bar]	[mm]		[kg]	-	-	-	-
	G 3	I	10-64	⁵⁾	⁵⁾	⁵⁾	V+H	1	-	-

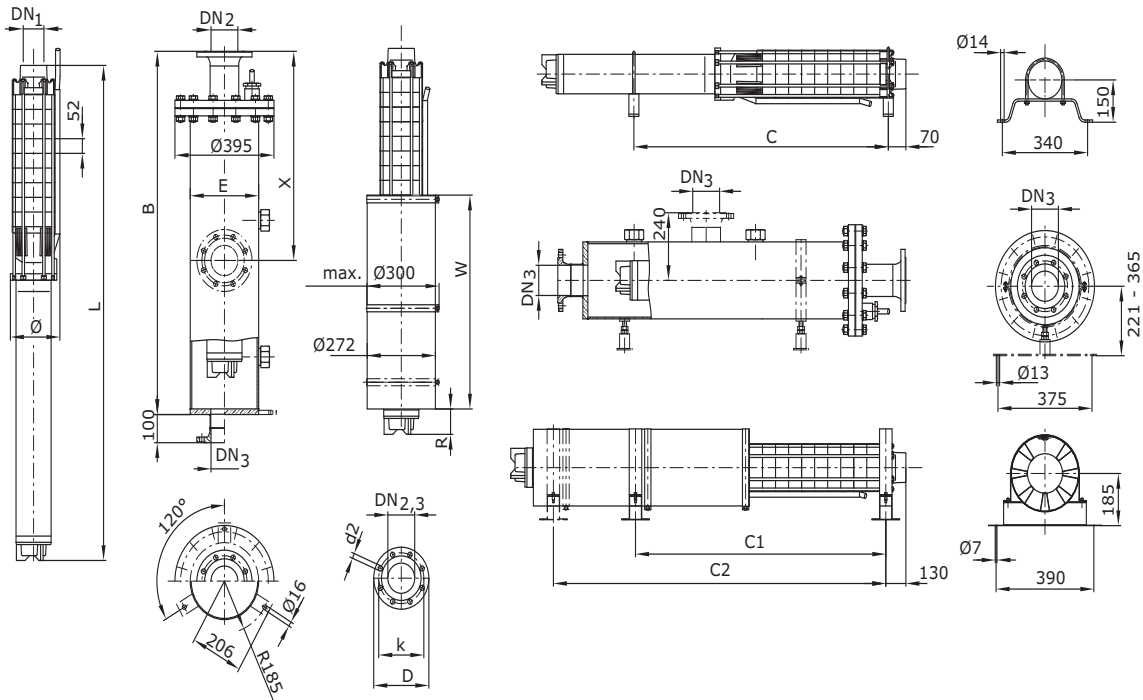
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU NK 81

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 81-20	NU801-2/60	1)	-	1)	2581	200	236.0	1)
NK 81-20	NU701-2/55	1)	-	1)	2590	200	258.0	1)
NK 81-21	NU801-2/60	1)	-	1)	2633	200	239.0	1)
NK 81-21	NU701-2/55	1)	-	1)	2642	200	261.0	1)
NK 81-22	NU801-2/68	1)	-	1)	2765	200	256.0	1)
NK 81-22	NU701-2/75	1)	-	1)	2885	200	302.0	1)
NK 81-23	NU801-2/68	1)	-	1)	2817	200	259.0	1)
NK 81-23	NU701-2/75	1)	-	1)	2937	200	305.0	1)
NK 81-24	NU801-2/75	1)	-	1)	2939	200	275.0	1)
NK 81-24	NU701-2/75	1)	-	1)	2989	200	308.0	1)
NK 81-25	NU801-2/75	1)	-	1)	2991	200	278.0	1)
NK 81-25	NU701-2/75	1)	-	1)	3041	200	311.0	1)
NK 81-26	NU801-2/87	1)	-	1)	3163	200	301.0	1)
NK 81-26	NU701-2/75	1)	-	1)	3093	200	314.0	1)

Accessories Wilo-EMU NK 81

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 570	6 020 348	6 020 347
NU 501	–	6 038 570	6 020 348	6 020 347
NU 8...	–	1)	6 020 350	6 020 349

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		–			[mm]			
NK 81-20	NU801-2/60	–	6 043 160	1300	–	–	–	111
NK 81-20	NU701-2/55	–	6 043 163	1300	–	–	–	120
NK 81-21	NU801-2/60	–	6 043 160	1300	–	–	–	111
NK 81-21	NU701-2/55	–	6 043 163	1300	–	–	–	120
NK 81-22	NU801-2/68	–	6 043 152	1400	–	–	–	91
NK 81-22	NU701-2/75	–	6 043 178	1550	–	–	–	61
NK 81-23	NU801-2/68	–	6 043 152	1400	–	–	–	91
NK 81-23	NU701-2/75	–	6 043 178	1550	–	–	–	61
NK 81-24	NU801-2/75	–	6 043 152	1411	–	–	–	150
NK 81-24	NU701-2/75	–	6 043 178	1550	–	–	–	61
NK 81-25	NU801-2/75	–	6 043 152	1411	–	–	–	150
NK 81-25	NU701-2/75	–	6 043 178	1550	–	–	–	61
NK 81-26	NU801-2/87	–	6 043 175	1550	–	–	–	131
NK 81-26	NU701-2/75	–	6 043 178	1550	–	–	–	61

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 81...	G 3 l	–	–	10-64	–	–	–	–	–
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	DN 100	DN 100	–	10-16	10	8x18	180	220
	–	DN 100	–	–	25-40	–	8x22	190	235
	–	–	DN 125	–	–	10	8x18	210	250
	–	–	DN 150	–	–	10	8x22	240	285

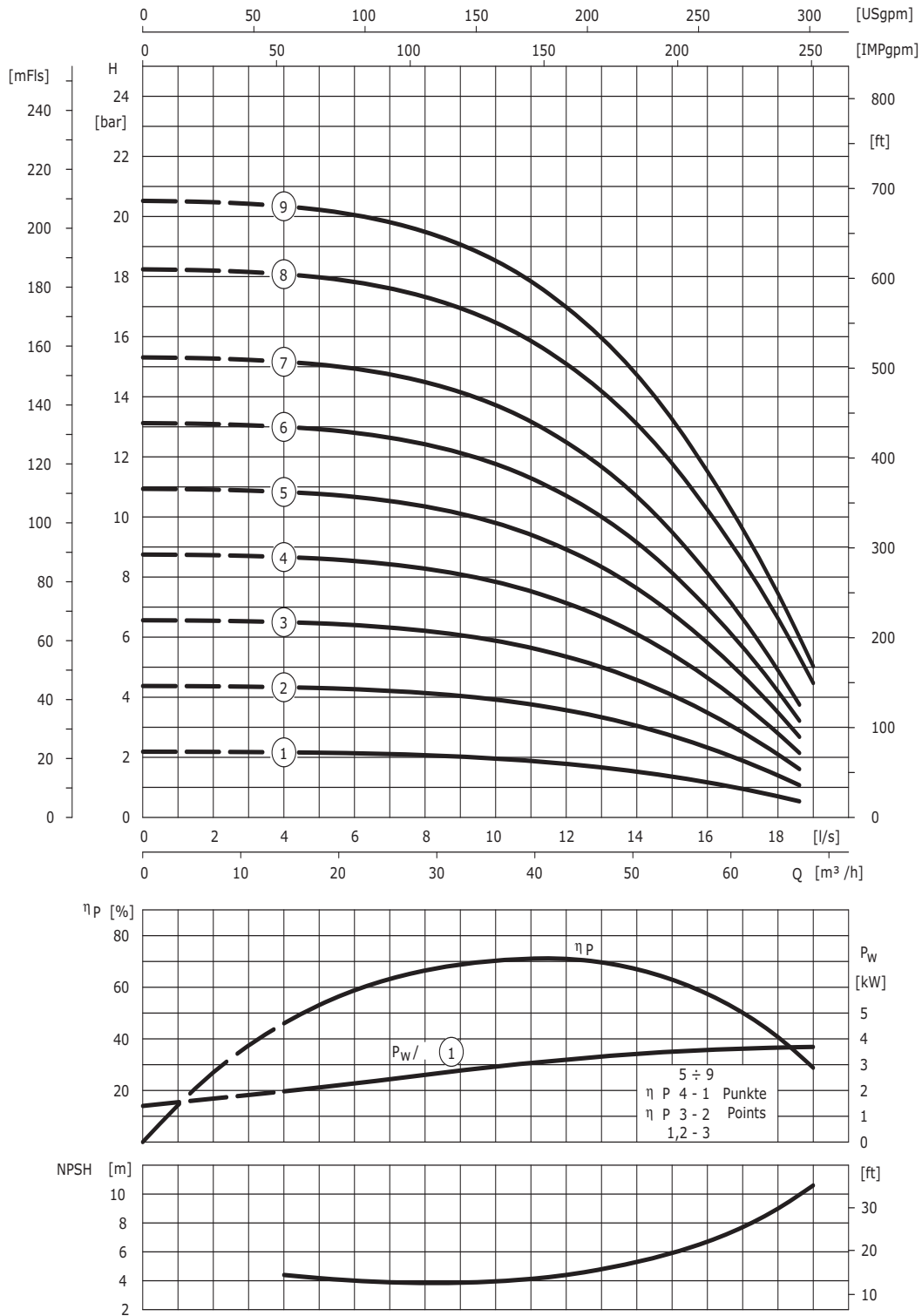
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Pump curves Wilo-EMU NK 82

Wilo-EMU NK 82



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 82

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _W	I	
				[kW]	[A]	[kW]	[A]	
NK 82-1	1	A	NU60-2/23	5.50	12.20	4	9.70	V+H
NK 82-1	1	A	NU501-2/4	4.00	9.30	3.90	8.90	V+H
NK 82-2	2	A	NU60-2/24	9.00	19.80	7.60	17.30	V+H
NK 82-2	2	A	NU501-2/9	9.30	20.70	7.90	18.50	V+H
NK 82-3	3	A	NU60-2/32	12.50	27.50	11.30	25	V+H
NK 82-3	3	A	NU501-2/15	15.00	31.30	11.80	26	V+H
NK 82-4	4	A	NU60-2/40	15.50	32.50	15	31.50	V+H
NK 82-4	4	A	NU501-2/15	15.00	31.30	15	31.30	V+H
NK 82-5	5	A	NU60-2/51	21.00	44.50	18.90	40	V+H
NK 82-5	5	A	NU501-2/22	22.00	45.30	19	39.50	V+H
NK 82-6	6	A	NU60-2/61	25.00	52	22.50	47	V+H
NK 82-6	6	A	NU501-2/30	30.00	63.50	23.10	51	V+H
NK 82-7	7	A	NU601-2/74	30.00	67	26.30	62	V+H
NK 82-7	7	A	NU501-2/30	30.00	63.50	26.80	57	V+H
NK 82-8	8	A	NU601-2/74	30.00	67	30	67	V+H
NK 82-8	8	A	NU501-2/30	30.00	63.50	30	63.50	V+H
NK 82-9	9	A	NU801-2/45	37.00	74	35	70	V+H
NK 82-9	9	A	NU501-2/37	37.00	73	34.60	69	V+H
NK 82-9	9	A	NU611-2/82	34.00	71	33	69	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Convec- tion	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
				DN ₁	max. Ø					
				[mm]	[mm]					
NK 82...	G 3	I	10-64	⁵⁾	⁵⁾	⁵⁾	V+H	1	-	-

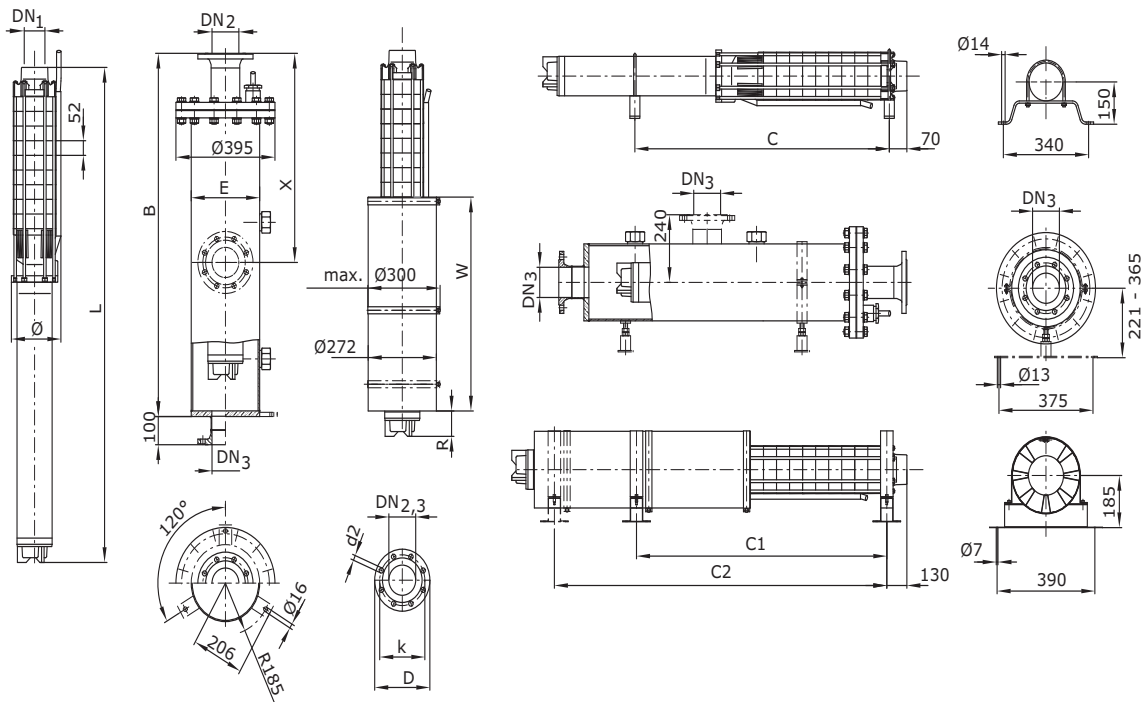
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Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU NK 82

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 82-1	NU60-2/23	1700	660	273	1061	190	67.0	108
NK 82-1	NU501-2/4	1400	610	273	972	195	58.0	100
NK 82-2	NU60-2/24	1700	710	273	1113	190	70.0	108
NK 82-2	NU501-2/9	1700	710	273	1122	195	71.0	108
NK 82-3	NU60-2/32	1700	810	273	1245	190	81.0	108
NK 82-3	NU501-2/15	1700	810	273	1271	195	83.0	108
NK 82-4	NU60-2/40	2000	900	273	1377	190	92.0	116
NK 82-4	NU501-2/15	1700	870	273	1323	195	86.0	108
NK 82-5	NU60-2/51	2000	1000	273	1529	194	105.0	116
NK 82-5	NU501-2/22	2000	980	273	1506	195	101.0	116
NK 82-6	NU60-2/61	2300	1100	273	1681	194	118.0	124
NK 82-6	NU501-2/30	2300	1100	273	1688	195	119.0	124
NK 82-7	NU601-2/74	2300	1220	273	1873	195	139.0	124
NK 82-7	NU501-2/30	2300	1150	273	1740	195	122.0	124
NK 82-8	NU601-2/74	2300	1280	273	1925	195	143.0	124
NK 82-8	NU501-2/30	2300	1210	273	1792	195	126.0	124
NK 82-9	NU801-2/45	2300	1260	273	1859	197	175.0	124
NK 82-9	NU501-2/37	2600	1440	273	2229	195	163.0	132
NK 82-9	NU611-2/82	2600	1380	273	2108	195	148.0	132

Accessories Wilo-EMU NK 82

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 570	6 020 348	6 020 347
NU 501	–	6 038 570	6 020 348	6 020 347
NU 8...	–	1)	6 020 350	6 020 349

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		–		[mm]				
NK 82-1	NU60-2/23	6 043 232	6 043 168	750	621	–	–	129
NK 82-1	NU501-2/4	6 043 230	6 043 166	750	577	–	–	40
NK 82-2	NU60-2/24	6 043 232	6 043 168	750	673	–	–	129
NK 82-2	NU501-2/9	6 043 197	6 043 122	835	629	787	–	53
NK 82-3	NU60-2/32	6 043 201	6 043 126	835	681	856	–	124
NK 82-3	NU501-2/15	6 043 197	6 043 122	835	681	936	–	150
NK 82-4	NU60-2/40	6 043 206	6 043 131	985	883	988	–	54
NK 82-4	NU501-2/15	6 043 197	6 043 122	835	733	988	–	150
NK 82-5	NU60-2/51	6 043 244	6 043 193	1000	959	–	–	139
NK 82-5	NU501-2/22	6 043 241	6 043 190	1000	948	–	–	116
NK 82-6	NU60-2/61	6 043 214	6 043 143	1150	987	1292	–	89
NK 82-6	NU501-2/30	6 043 210	6 043 138	1150	987	1353	–	96
NK 82-7	NU601-2/74	6 043 224	6 043 158	1300	1039	1484	–	79
NK 82-7	NU501-2/30	6 043 210	6 043 138	1150	1039	1405	–	96
NK 82-8	NU601-2/74	6 043 224	6 043 158	1300	1091	1536	–	79
NK 82-8	NU501-2/30	6 043 210	6 043 138	1150	1091	1457	–	96
NK 82-9	NU801-2/45	6 043 218	6 043 146	1150	1143	1554	–	111
NK 82-9	NU501-2/37	6 043 233	6 043 169	1550	1393	1894	–	81
NK 82-9	NU611-2/82	6 043 221	6 043 149	1400	1393	1653	–	110

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
		[mm]		[bar]			[mm]		
NK 82...	G 3 l	–	–	10-64	–	–	–	–	–
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	DN 100	DN 100	–	10-16	10	8x18	180	220
	–	DN 100	–	–	25-40	–	8x22	190	235
	–	–	DN 125	–	–	10	8x18	210	250
–	–	DN 150	–	–	10	8x22	240	285	

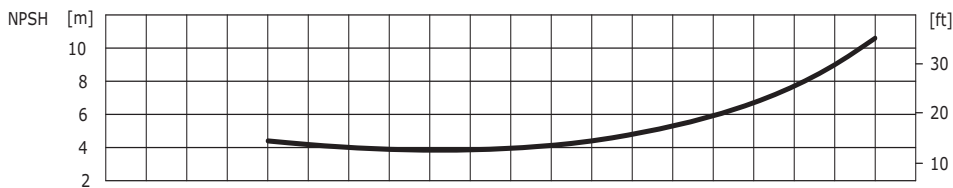
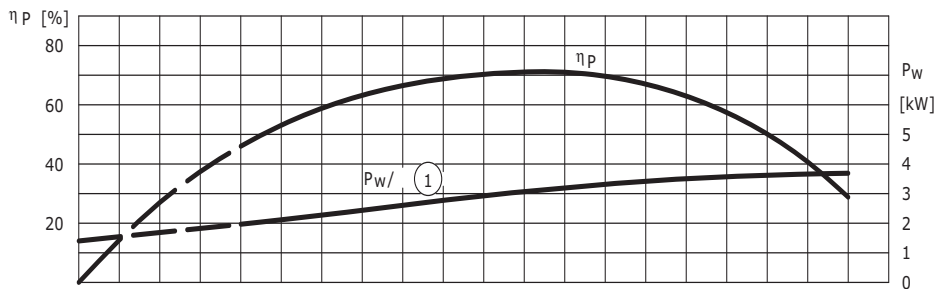
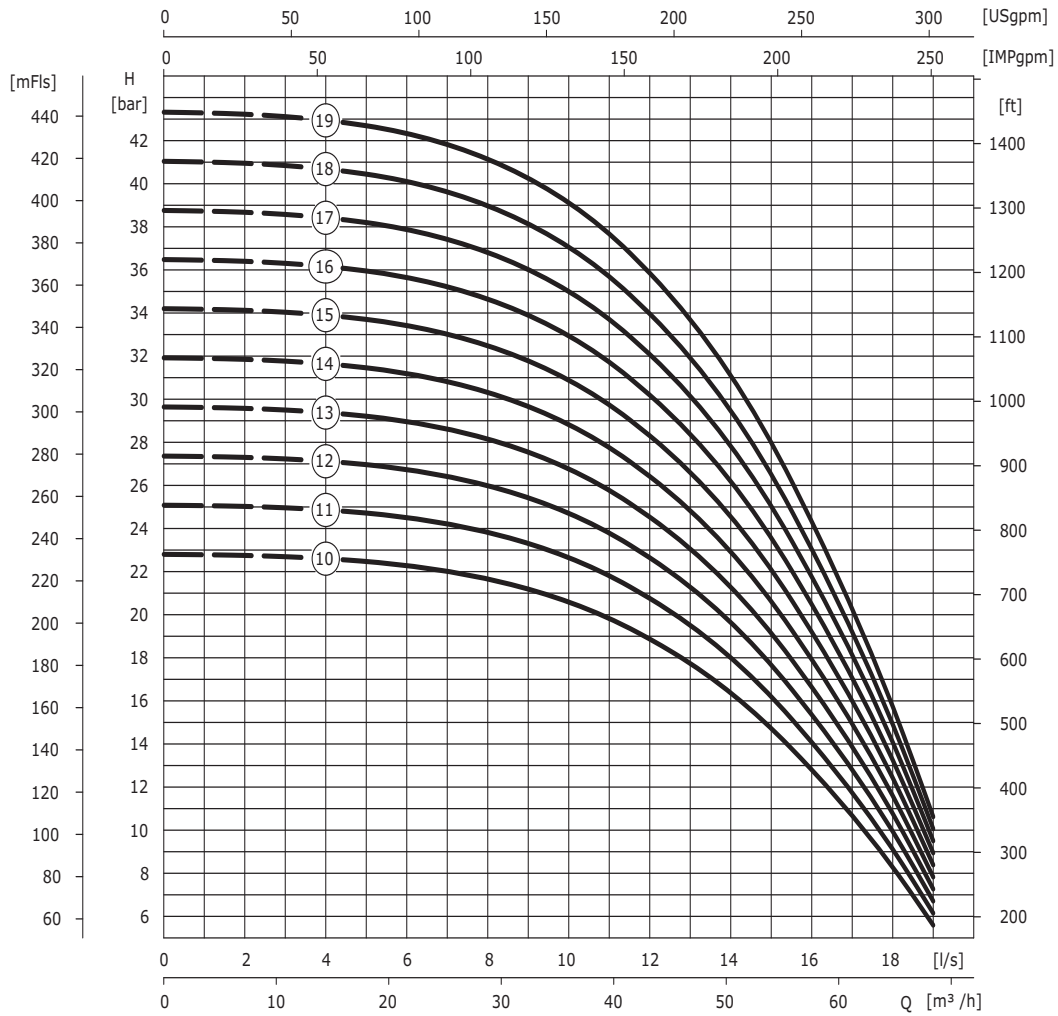
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilо-EMU 8" series

Pump curves Wilо-EMU NK 82

Wilо-EMU NK 82



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 82

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				-	P_2	I_N	P_W	
				[kW]	[A]	[kW]	[A]	
NK 82-10	10	A	NU80-2/55	47.50	95	40	81	V+H
NK 82-10	10	A	NU501-2/45	45.00	93.30	38.40	79	V+H
NK 82-10	10	A	NU611-2/90	37.00	77	36.80	77	V
NK 82-11	11	A	NU801-2/55	47.50	95	43	86	V+H
NK 82-11	11	A	NU501-2/45	45.00	93.30	43	87	V+H
NK 82-12	12	A	NU801-2/55	47.50	95	46.70	94	V+H
NK 82-12	12	A	NU701-2/55	55.00	108	46.70	91	V
NK 82-13	13	A	NU801-2/60	53.00	104	51	100	V+H ¹⁾
NK 82-13	13	A	NU701-2/55	55.00	108	51.50	98	V
NK 82-14	14	A	NU801-2/68	59.00	113	55.70	107	V
NK 82-14	14	A	NU701-2/55	55.00	108	54.80	104	V
NK 82-15	15	A	NU801-2/68	59.00	113	59	113	V
NK 82-15	15	A	NU701-2/75	75.00	145	59.90	119	V
NK 82-16	16	A	NU801-2/75	65.00	129	63	126	V
NK 82-16	16	A	NU701-2/75	75.00	145	64	125	V
NK 82-17	17	A	NU801-2/87	75.00	145	67	131	V
NK 82-17	17	A	NU701-2/75	75.00	145	67	130	V
NK 82-18	18	A	NU801-2/87	75.00	145	71.50	139	V
NK 82-18	18	A	NU701-2/75	75.00	145	71.50	137	V
NK 82-19	19	A	NU801-2/87	75.00	145	74.50	144	V
NK 82-19	19	A	NU701-2/75	75.00	145	74.50	143	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
				L	max. ϕ					
				[mm]	[mm]					
NK 82...	G 3	I	10-64	5)	5)	5)	V+H	1	-	-

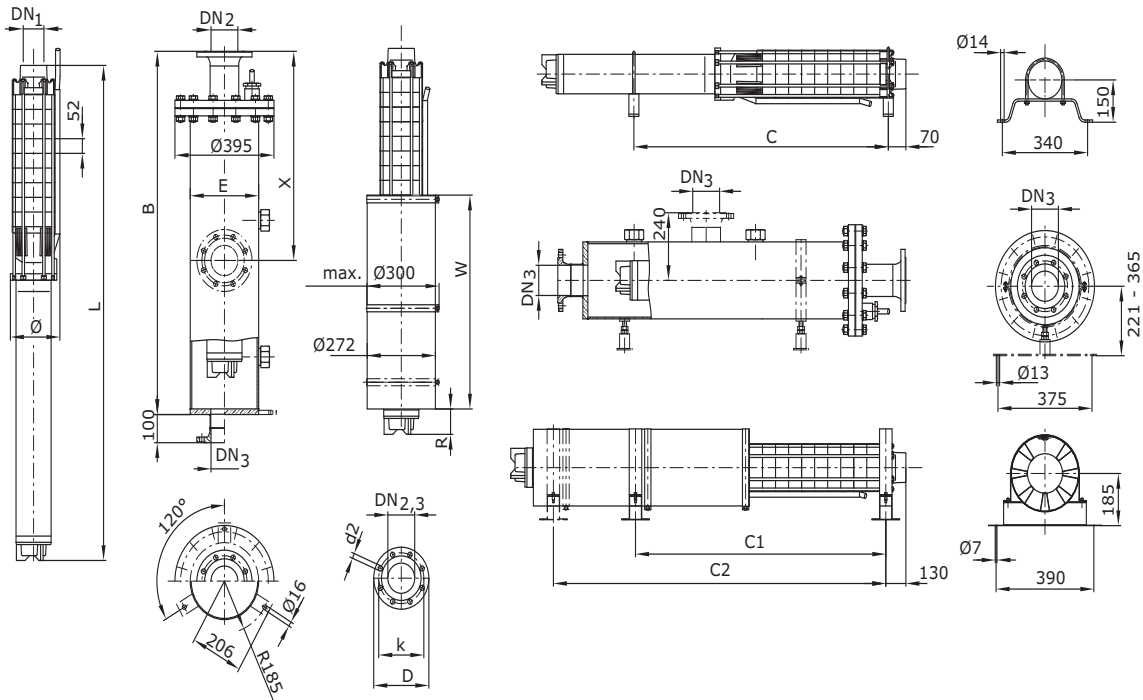
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ in case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ -, ⁵⁾ Integrated in hydraulics, ⁶⁾ -, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU NK 82

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[kg]	
		[mm]					[kg]	
NK 82-10	NU80-2/55	2600	1370	273	2011	197	196.0	132
NK 82-10	NU501-2/45	2900	1570	273	2433	199	182.0	140
NK 82-10	NU611-2/90	2600	-	273	2240	195	156.0	132
NK 82-11	NU801-2/55	2600	1420	273	2063	197	199.0	132
NK 82-11	NU501-2/45	2900	1620	273	2485	199	185.0	140
NK 82-12	NU801-2/55	2600	1470	273	2115	197	202.0	132
NK 82-12	NU701-2/55	2600	-	273	2174	200	232.0	132
NK 82-13	NU801-2/60	2600	1750	273	2217	200	213.0	132
NK 82-13	NU701-2/55	2600	-	273	2226	200	235.0	132
NK 82-14	NU801-2/68	2900	-	273	2349	200	230.0	140
NK 82-14	NU701-2/55	2900	-	273	2278	200	238.0	140
NK 82-15	NU801-2/68	2900	-	273	2401	200	233.0	140
NK 82-15	NU701-2/75	2900	-	273	2521	200	280.0	140
NK 82-16	NU801-2/75	2900	-	273	2523	200	250.0	140
NK 82-16	NU701-2/75	1)	-	1)	2573	200	282.0	1)
NK 82-17	NU801-2/87	1)	-	1)	2695	204	272.0	1)
NK 82-17	NU701-2/75	1)	-	1)	2625	200	285.0	1)
NK 82-18	NU801-2/87	1)	-	1)	2747	204	275.0	1)
NK 82-18	NU701-2/75	1)	-	1)	2677	200	288.0	1)
NK 82-19	NU801-2/87	1)	-	1)	2799	204	278.0	1)
NK 82-19	NU701-2/75	1)	-	1)	2729	200	291.0	1)

Accessories Wilo-EMU NK 82

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 570	6 020 348	6 020 347
NU 501	–	6 038 570	6 020 348	6 020 347
NU 8...	–	1)	6 020 350	6 020 349

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
				[mm]				
NK 82-10	NU80-2/55	6 043 226	6 043 160	1300	1195	1706	–	61
NK 82-10	NU501-2/45	6 043 237	6 043 182	1716	1445	2098	–	67
NK 82-10	NU611-2/90	–	6 043 149	1450	–	–	–	140
NK 82-11	NU801-2/55	6 043 226	6 043 160	1300	1247	1758	–	61
NK 82-11	NU501-2/45	6 043 237	6 043 182	1716	1497	2150	–	67
NK 82-12	NU801-2/55	6 043 249	6 043 160	1300	1299	1810	–	61
NK 82-12	NU701-2/55	–	6 043 163	1300	–	–	–	120
NK 82-13	NU801-2/60	–	6 043 160	1300	–	–	–	111
NK 82-13	NU701-2/55	–	6 043 163	1300	–	–	–	120
NK 82-14	NU801-2/68	–	6 043 152	1400	–	–	–	91
NK 82-14	NU701-2/55	–	6 043 163	1300	–	–	–	120
NK 82-15	NU801-2/68	–	6 043 152	1400	–	–	–	91
NK 82-15	NU701-2/75	–	6 043 163	1300	–	–	–	120
NK 82-16	NU801-2/75	–	6 043 152	1411	–	–	–	150
NK 82-16	NU701-2/75	–	6 043 178	1550	–	–	–	61
NK 82-17	NU801-2/87	–	6 043 175	1550	–	–	–	131
NK 82-17	NU701-2/75	–	6 043 178	1550	–	–	–	61
NK 82-18	NU801-2/87	–	6 043 175	1550	–	–	–	131
NK 82-18	NU701-2/75	–	6 043 178	1550	–	–	–	61
NK 82-19	NU801-2/87	–	6 043 175	1550	–	–	–	131
NK 82-19	NU701-2/75	–	6 043 178	1550	–	–	–	61

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
				[bar]			[mm]		
NK 82...	G 3/1	–	–	10-64	–	–	–	–	–
	–	DN 80	DN 80	–	10-40	10	8x18	160	200
	–	DN 100	DN 100	–	10-16	10	8x18	180	220
	–	DN 100	–	–	25-40	–	8x22	190	235
	–	–	DN 125	–	–	10	8x18	210	250
	–	–	DN 150	–	–	10	8x22	240	285

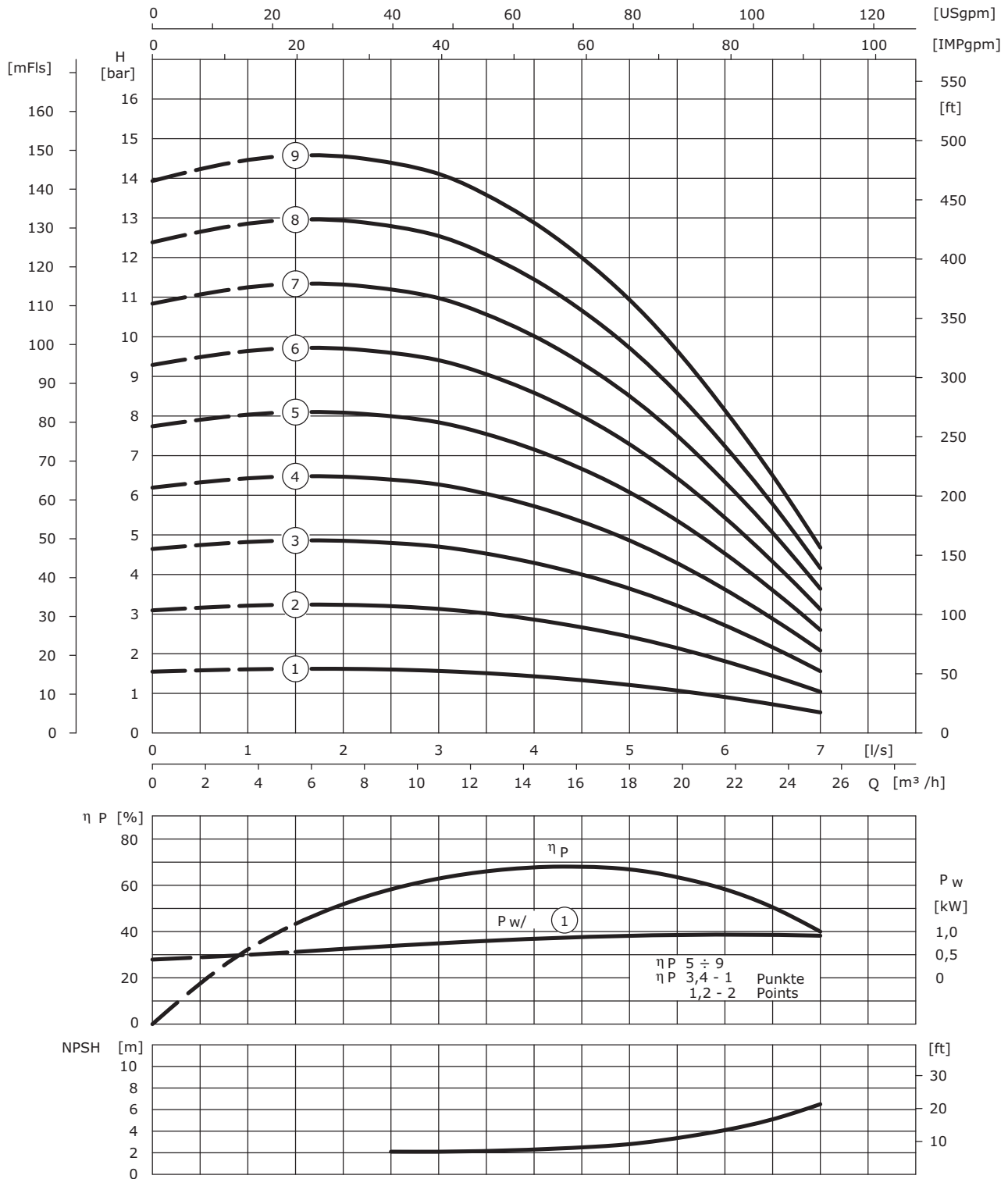
Pump with non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ in case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ Integrated in hydraulics, ⁶⁾ –, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Pump curves Wilo-EMU KD 13

Wilo-EMU KD 13



400 V, 50 Hz, ρ = 1 kg/dm³, ν = 1 × 10⁻⁶ m²/s, ISO 9906 appendix A

Technical data Wilo-EMU KD 13

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I	-
				[kW]	[A]	[kW]	[A]	-
KD 13-1	1	A	NU 431-2/11	1.10	3	1	2.75	V+H
KD 13-2	2	A	NU 431-2/22	2.20	5.90	2	5.50	V+H
KD 13-3	3	A	NU 431-2/30	3.00	7.80	3	7.80	V+H
KD 13-4	4	A	NU 60-2/23	5.50	12.20	4	9.70	V+H
KD 13-4	4	A	NU 431-2/40	4.00	10	4	10	V+H
KD 13-4	4	A	NU 501-2/4	4.00	9.30	4	9.30	V+H
KD 13-5	5	A	NU 60-2/23	5.50	12.20	5	11.50	V+H
KD 13-5	5	A	NU 431-2/55	5.50	13.70	5	12.50	V+H
KD 13-5	5	A	NU 501-2/5	5.50	12.50	5	11.50	V+H
KD 13-6	6	A	NU 60-2/24	9.00	19.80	6	14.80	V+H
KD 13-6	6	A	NU 501-2/7	7.50	16	6	13.50	V+H
KD 13-7	7	A	NU 60-2/24	9.00	19.80	7	16.30	V+H
KD 13-7	7	A	NU 501-2/7	7.50	16	7	15.10	V+H
KD 13-8	8	A	NU 60-2/24	9.00	19.80	8	18	V+H
KD 13-8	8	A	NU 501-2/9	9.30	20.70	8	19.10	V+H
KD 13-9	9	A	NU 60-2/24	9.00	19.80	9	19.80	V+H
KD 13-9	9	A	NU 501-2/9	9.30	20.70	9	20.50	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. ϕ					
	[mm]	-	[bar]	[mm]		[kg]				
KD 13...	DN 65	-	10-16	-100	184	-8.4	V	2	⁶⁾	⁶⁾
	DN 65	-	25-40	-100	184	-8.4	V	2	⁶⁾	⁶⁾
	DN 80	-	10-16	-100	184	-9.0	V	2	⁶⁾	⁶⁾
	DN 80	-	25-40	-100	184	-9.0	V	2	⁶⁾	⁶⁾

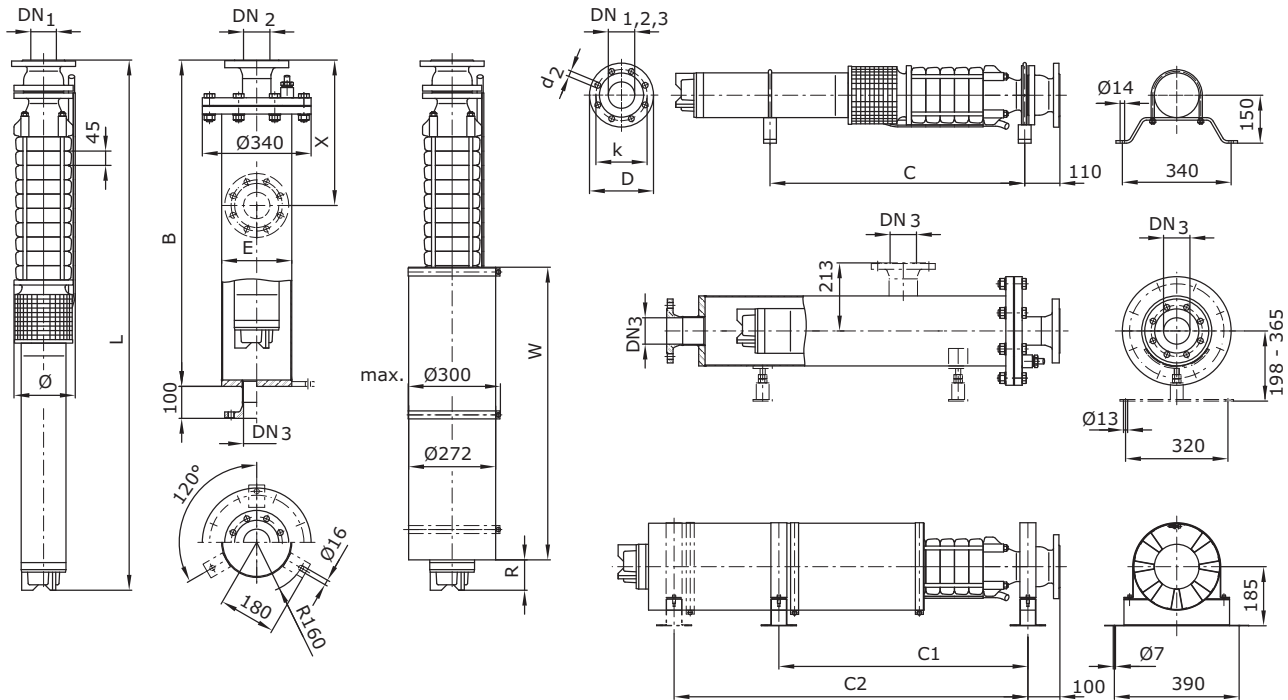
Pump with non-return valve (NRV for vertical installation only), ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. ϕ with flange connection DN65, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU KD 13

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
KD 13-1	NU 431-2/11	1050	410	219.1	675	185	37.4	59
KD 13-2	NU 431-2/22	1050	490	219.1	777	185	44.0	59
KD 13-3	NU 431-2/30	1350	610	219.1	974	185	54.0	64
KD 13-4	NU 60-2/23	1650	800	219.1	1243	185	86.0	69
KD 13-4	NU 431-2/40	1350	690	219.1	1095	185	63.0	64
KD 13-4	NU 501-2/4	1350	750	219.1	1086	185	77.0	64
KD 13-5	NU 60-2/23	1650	850	219.1	1288	185	90.0	69
KD 13-5	NU 431-2/55	1650	790	219.1	1254	185	72.0	69
KD 13-5	NU 501-2/5	1650	820	219.1	1233	185	84.0	69
KD 13-6	NU 60-2/24	1650	890	219.1	1333	185	94.0	69
KD 13-6	NU 501-2/7	1650	870	219.1	1309	185	92.0	69
KD 13-7	NU 60-2/24	1650	980	219.1	1415	185	100.0	69
KD 13-7	NU 501-2/7	1650	960	219.1	1391	185	99.0	69
KD 13-8	NU 60-2/24	1650	1020	219.1	1460	185	104.0	69
KD 13-8	NU 501-2/9	1650	1020	219.1	1469	185	105.0	69
KD 13-9	NU 60-2/24	1650	1070	219.1	1505	185	108.0	69
KD 13-9	NU 501-2/9	1650	1070	219.1	1514	185	109.0	69

Accessories Wilo-EMU KD 13

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4..	–	6 038 566	1)	1)
NU 6..	–	6 038 268	6 044 428	1)
NU 501	–	6 038 268	6 044 428	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
–				[mm]				
KD 13-1	NU 431-2/11	6 043 208	6 043 133	435	448	–	–	20
KD 13-2	NU 431-2/22	6 043 208	6 043 133	435	521	–	–	77
KD 13-3	NU 431-2/30	6 043 220	6 043 148	600	642	–	–	64
KD 13-4	NU 60-2/23	6 043 200	6 043 125	835	781	884	–	53
KD 13-4	NU 431-2/40	6 043 220	6 043 148	600	725	–	–	140
KD 13-4	NU 501-2/4	6 043 229	6 043 165	750	721	–	–	49
KD 13-5	NU 60-2/23	6 043 200	6 043 125	835	826	929	–	53
KD 13-5	NU 431-2/55	6 043 228	6 043 164	750	827	–	–	104
KD 13-5	NU 501-2/5	6 043 229	6 043 165	750	851	–	–	83
KD 13-6	NU 60-2/24	6 043 200	6 043 125	835	871	974	–	53
KD 13-6	NU 501-2/7	6 043 229	6 043 165	750	911	–	–	114
KD 13-7	NU 60-2/24	6 043 200	6 043 125	835	953	1056	–	53
KD 13-7	NU 501-2/7	6 043 229	6 043 165	750	993	–	–	114
KD 13-8	NU 60-2/24	6 043 200	6 043 125	835	998	1101	–	53
KD 13-8	NU 501-2/9	6 043 196	6 043 121	835	998	1164	–	62
KD 13-9	NU 60-2/24	6 043 200	6 043 125	835	1043	1146	–	53
KD 13-9	NU 501-2/9	6 043 196	6 043 121	835	1043	1209	–	62

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
KD 13...	DN 65	–	–	10-16	–	–	8x18	145	185
	DN 65	–	–	25-40	–	–	8x18	145	185
	DN 80	DN 80	DN 80	10-40	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

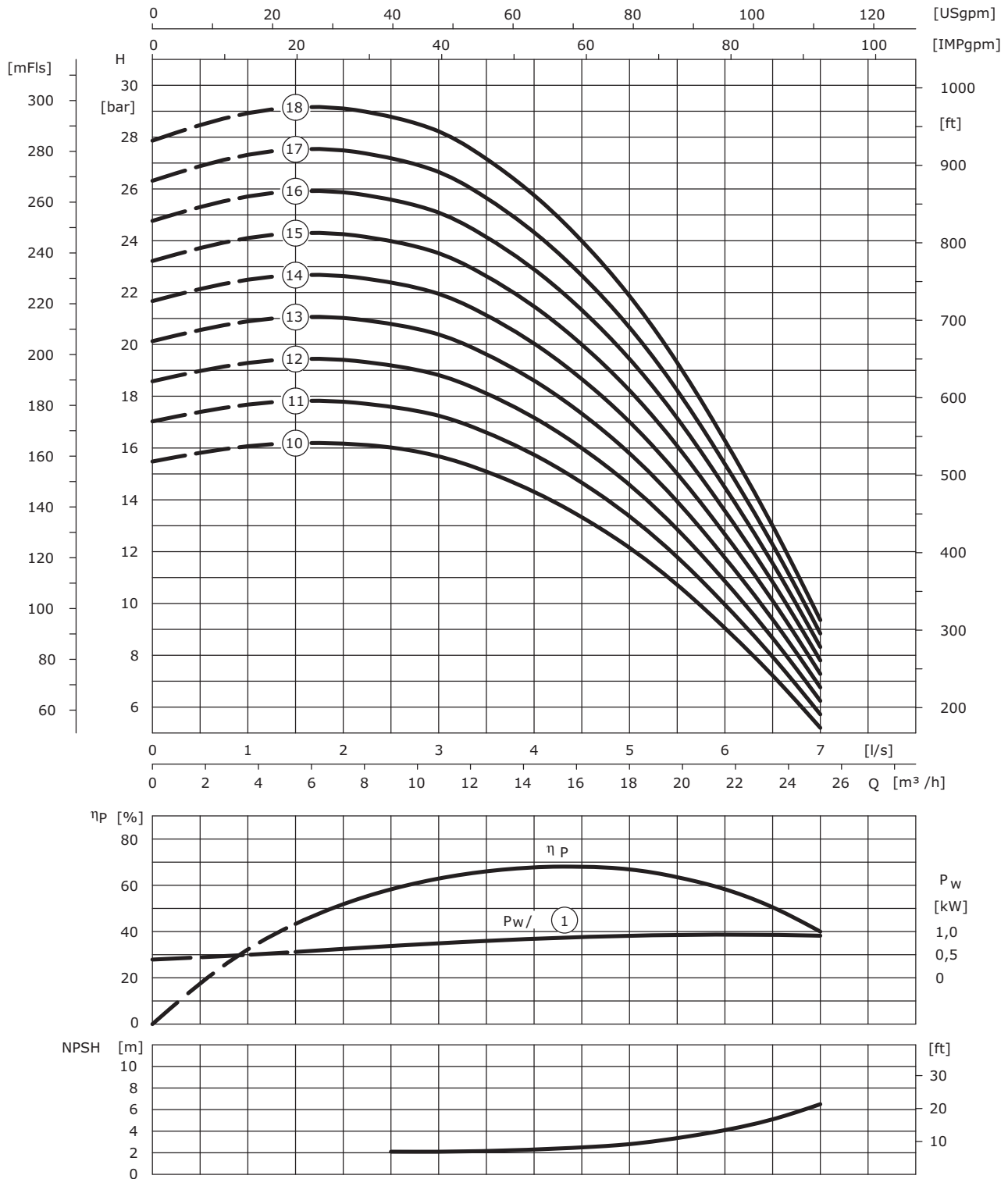
Pump with non-return valve (NRV for vertical installation only), ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with flange connection DN65, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilо-EMU 8" series

Pump curves Wilо-EMU KD 13

Wilо-EMU KD 13



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU KD 13

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I	
				[kW]	[A]	[kW]	[A]	
KD 13-10	10	A	NU 60-2/32	12.50	27.50	10	22.50	V+H
KD 13-10	10	A	NU 501-2/11	11.00	23.30	10	22	V+H
KD 13-11	11	A	NU 60-2/32	12.50	27.50	11	24.50	V
KD 13-11	11	A	NU 501-2/11	11.00	23.30	11	23.30	V
KD 13-12	12	A	NU 60-2/32	12.50	27.50	12	26.50	V
KD 13-12	12	A	NU 501-2/15	15.00	31.30	12	26.50	V
KD 13-13	13	A	NU 60-2/32	12.50	27.50	12.50	27.50	V
KD 13-13	13	A	NU 501-2/15	15.00	31.30	13	28.50	V
KD 13-14	14	A	NU 60-2/40	15.50	32.50	14	30	V
KD 13-14	14	A	NU 501-2/15	15.00	31.30	14	30	V
KD 13-15	15	A	NU 60-2/40	15.50	32.50	15	31.50	V
KD 13-15	15	A	NU 501-2/15	15.00	31.30	15	31.30	V
KD 13-16	16	A	NU 60-2/40	15.50	32.50	15.50	32.50	V
KD 13-16	16	A	NU 501-2/18	18.50	38.50	16	35	V
KD 13-17	17	A	NU 60-2/51	21.00	44.50	17	36.50	V
KD 13-17	17	A	NU 501-2/18	18.50	38.50	17	36.50	V
KD 13-18	18	A	NU 60-2/51	21.00	44.50	18	38.50	V
KD 13-18	18	A	NU 501-2/18	18.50	38.50	18	38	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	–	PN ₁	L	max. ϕ	–				
	[mm]	–	[bar]	[mm]		[kg]	–			
KD 13...	DN 65	–	10-16	-100	184	-8.4	V	2	⁶⁾	⁶⁾
	DN 65	–	25-40	-100	184	-8.4	V	2	⁶⁾	⁶⁾
	DN 80	–	10-16	-100	184	-9.0	V	2	⁶⁾	⁶⁾
	DN 80	–	25-40	-100	184	-9.0	V	2	⁶⁾	⁶⁾

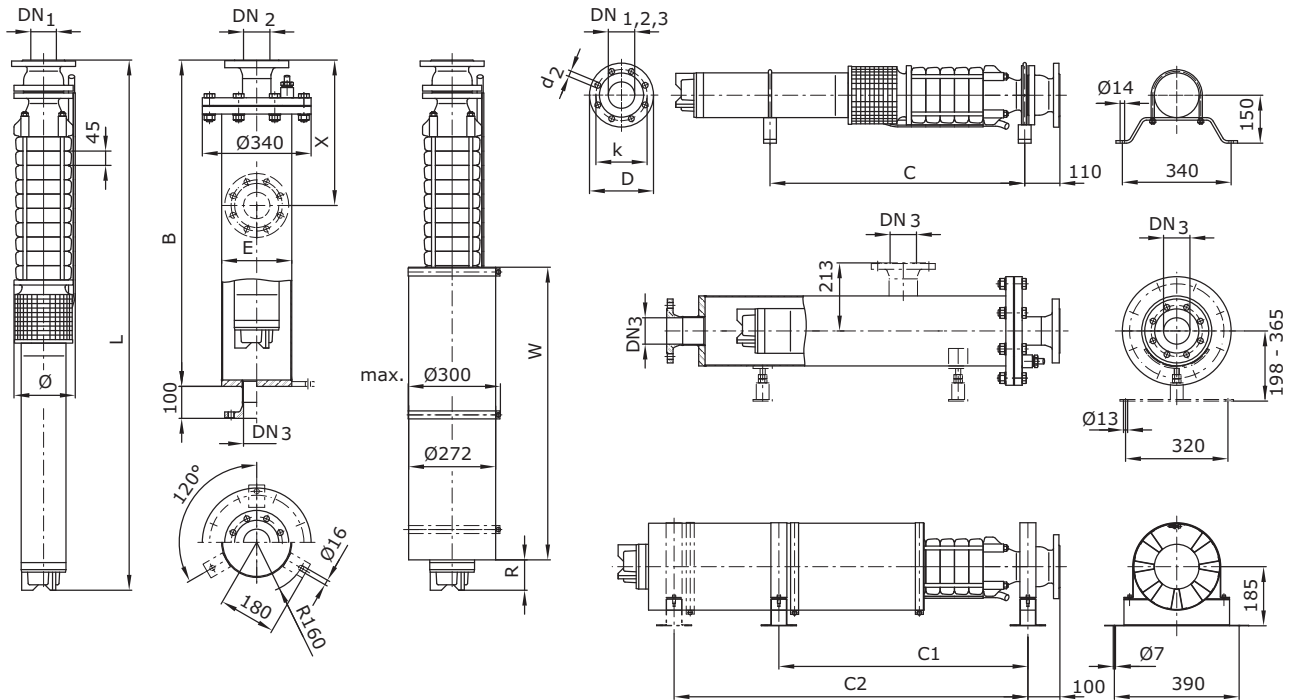
Pump with non-return valve (NRV for vertical installation only), ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN65, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU KD 13

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
KD 13-10	NU 60-2/32	1950	1150	219.1	1630	185	120.0	74
KD 13-10	NU 501-2/11	1950	1130	219.1	1591	185	116.0	74
KD 13-11	NU 60-2/32	1950	-	219.1	1675	185	124.0	74
KD 13-11	NU 501-2/11	1950	-	219.1	1636	185	120.0	74
KD 13-12	NU 60-2/32	1950	-	219.1	1720	185	128.0	74
KD 13-12	NU 501-2/15	1950	-	219.1	1746	185	130.0	74
KD 13-13	NU 60-2/32	1950	-	219.1	1765	185	132.0	74
KD 13-13	NU 501-2/15	2250	-	219.1	1791	185	134.0	79
KD 13-14	NU 60-2/40	2250	-	219.1	1890	185	144.0	79
KD 13-14	NU 501-2/15	2250	-	219.1	1836	185	138.0	79
KD 13-15	NU 60-2/40	2250	-	219.1	1972	185	151.0	79
KD 13-15	NU 501-2/15	2250	-	219.1	1918	185	144.0	79
KD 13-16	NU 60-2/40	2250	-	219.1	2017	185	155.0	79
KD 13-16	NU 501-2/18	2250	-	219.1	2029	185	155.0	79
KD 13-17	NU 60-2/51	2550	-	219.1	2162	185	169.0	83
KD 13-17	NU 501-2/18	2250	-	219.1	2074	185	159.0	79
KD 13-18	NU 60-2/51	2250	-	219.1	2207	185	173.0	83
KD 13-18	NU 501-2/18	2550	-	219.1	2119	185	163.0	83

Accessories Wilo-EMU KD 13

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4..	–	6 038 566	1)	1)
NU 6..	–	6 038 268	6 044 428	1)
NU 501	–	6 038 268	6 044 428	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
	–	–			[mm]			
KD 13-10	NU 60-2/32	6 043 200	6 043 125	835	1088	1271	–	133
KD 13-10	NU 501-2/11	6 043 196	6 043 121	835	1088	1286	–	94
KD 13-11	NU 60-2/32	–	6 043 125	835	–	–	–	133
KD 13-11	NU 501-2/11	–	6 043 121	835	–	–	–	94
KD 13-12	NU 60-2/32	–	6 043 125	835	–	–	–	133
KD 13-12	NU 501-2/15	–	6 043 121	844	–	–	–	150
KD 13-13	NU 60-2/32	–	6 043 125	835	–	–	–	133
KD 13-13	NU 501-2/15	–	6 043 121	844	–	–	–	150
KD 13-14	NU 60-2/40	–	6 043 130	985	–	–	–	63
KD 13-14	NU 501-2/15	–	6 043 121	844	–	–	–	150
KD 13-15	NU 60-2/40	–	6 043 130	985	–	–	–	63
KD 13-15	NU 501-2/15	–	6 043 121	844	–	–	–	150
KD 13-16	NU 60-2/40	–	6 043 130	985	–	–	–	63
KD 13-16	NU 501-2/18	–	6 043 189	1000	–	–	–	60
KD 13-17	NU 60-2/51	–	6 043 192	1000	–	–	–	148
KD 13-17	NU 501-2/18	–	6 043 189	1000	–	–	–	60
KD 13-18	NU 60-2/51	–	6 043 192	1000	–	–	–	148
KD 13-18	NU 501-2/18	–	6 043 189	1000	–	–	–	60

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
KD 13...	DN 65	–	–	10-16	–	–	8x18	145	185
	DN 65	–	–	25-40	–	–	8x18	145	185
	DN 80	DN 80	DN 80	10-40	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

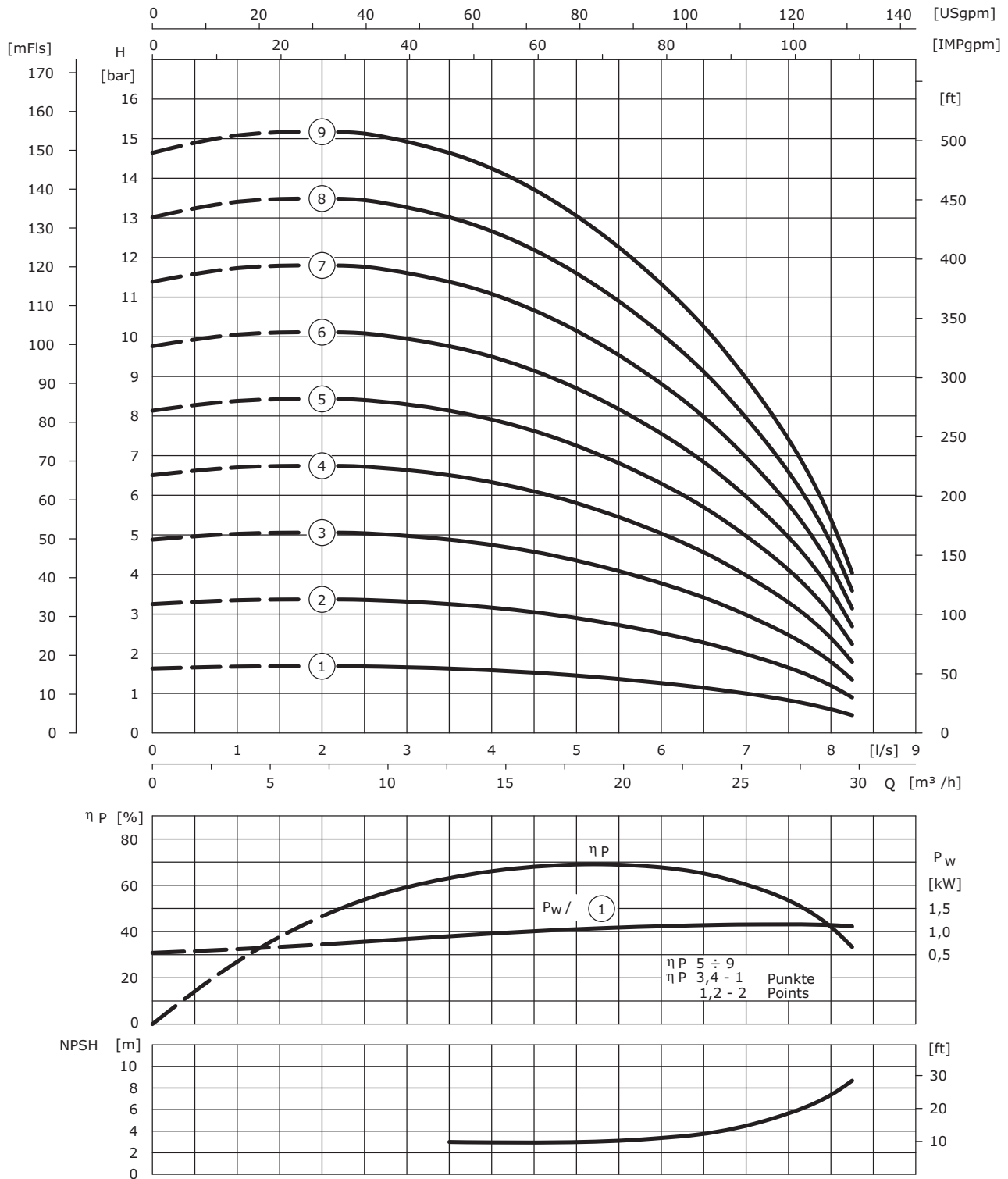
Pump with non-return valve (NRV for vertical installation only), ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN65, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Pump curves Wilo-EMU KD 16

Wilo-EMU KD 16



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU KD 16

Technical data								
Wilo-EMU...	No.	Availability*	Motor type	Nominal power	Nominal current	Shaft power	Current for power requirement of the shaft	Inst.
		–		P_2	I_N	P_W	I	–
		–		[kW]	[A]	[kW]	[A]	–
KD 16-1	1	A	NU 431-2/15	1.50	4	1.40	3.80	V+H
KD 16-2	2	A	NU 431-2/30	3.00	7.80	3	7.80	V+H
KD 16-3	3	A	NU 60-2/23	5.50	12.20	3.70	9.20	V+H
KD 16-3	3	A	NU 431-2/37	3.70	9.10	3.70	9.10	V+H
KD 16-3	3	A	NU 501-2/4	4.00	9.30	3.70	8.60	V+H
KD 16-4	4	A	NU 60-2/23	5.50	12.20	5.50	12.20	V+H
KD 16-4	4	A	NU 431-2/55	5.50	13.70	5.50	13.70	V+H
KD 16-4	4	A	NU 501-2/5	5.50	12.50	5.50	12.50	V+H
KD 16-5	5	A	NU 60-2/24	9.00	19.80	6.30	15.20	V+H
KD 16-5	5	A	NU 501-2/7	7.50	16	6.30	14	V+H
KD 16-6	6	A	NU 60-2/24	9.00	19.80	7.50	17.10	V+H
KD 16-6	6	A	NU 501-2/7	7.50	16	7.50	16	V+H
KD 16-7	7	A	NU 60-2/24	9.00	19.80	8.80	19.40	V+H
KD 16-7	7	A	NU 501-2/9	9.30	20.70	8.80	19.90	V+H
KD 16-8	8	A	NU 60-2/32	12.50	27.50	10	22.50	V+H
KD 16-8	8	A	NU 501-2/11	11.00	23.30	10	22	V+H
KD 16-9	9	A	NU 60-2/32	12.50	27.50	11.30	25	V+H
KD 16-9	9	A	NU 501-2/11	11.00	23.30	11	23.30	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves										
Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	–	PN ₁	L	max. ϕ	–				
	[mm]	–	[bar]	[mm]		[kg]	–			
KD 16...	DN 65	–	10-16	-100	184	-8.4	V	2	⁶⁾	⁶⁾
	DN 65	–	25-40	-100	184	-8.4	V	2	⁶⁾	⁶⁾
	DN 80	–	10-16	-100	184	-9.0	V	2	⁶⁾	⁶⁾
	DN 80	–	25-40	-100	184	-9.0	V	2	⁶⁾	⁶⁾

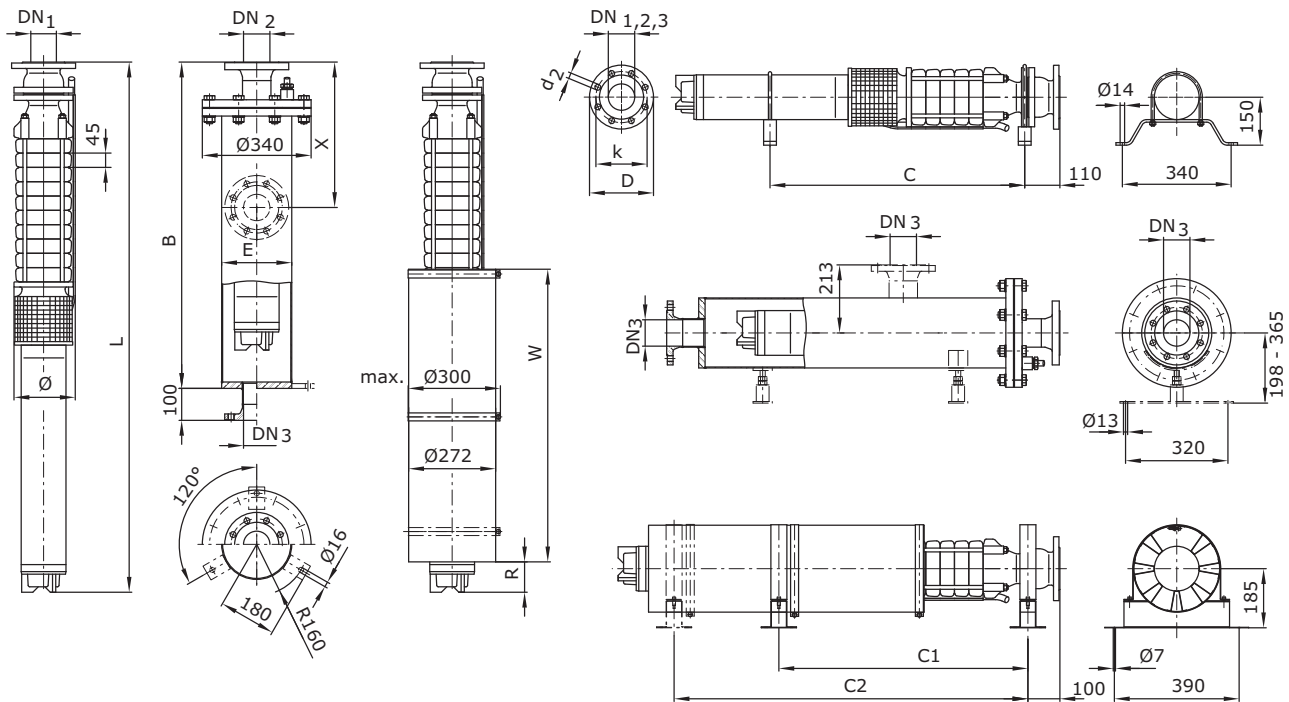
Pump with non-return valve (NRV for vertical installation only), ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. ϕ with flange connection DN65, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU KD 16

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
KD 16-1	NU 431-2/15	1050	430	219.1	704	185	38.6	59
KD 16-2	NU 431-2/30	1050	570	219.1	929	185	50.0	59
KD 16-3	NU 60-2/23	1350	760	219.1	1198	185	82.0	64
KD 16-3	NU 431-2/37	1350	630	219.1	1014	185	57.0	64
KD 16-3	NU 501-2/4	1350	710	219.1	1109	185	73.0	64
KD 16-4	NU 60-2/23	1650	800	219.1	1243	185	86.0	69
KD 16-4	NU 431-2/55	1350	750	219.1	1209	185	68.0	64
KD 16-4	NU 501-2/5	1350	770	219.1	1188	185	80.0	64
KD 16-5	NU 60-2/24	1650	850	219.1	1288	185	90.0	69
KD 16-5	NU 501-2/7	1650	830	219.1	1264	185	88.0	69
KD 16-6	NU 60-2/24	1650	890	219.1	1333	185	94.0	69
KD 16-6	NU 501-2/7	1650	870	219.1	1309	185	92.0	69
KD 16-7	NU 60-2/24	1650	980	219.1	1415	185	100.0	69
KD 16-7	NU 501-2/9	1650	980	219.1	1424	185	101.0	69
KD 16-8	NU 60-2/32	1950	1060	219.1	1540	185	112.0	74
KD 16-8	NU 501-2/11	1650	1040	219.1	1501	185	108.0	69
KD 16-9	NU 60-2/32	1950	1110	219.1	1585	185	116.0	74
KD 16-9	NU 501-2/11	1950	1090	219.1	1546	185	112.0	74

Accessories Wilo-EMU KD 16

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4..	–	6 038 566	1)	1)
NU 6..	–	6 038 268	6 044 428	1)
NU 501	–	6 038 268	6 044 428	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
	–	horizontal	vertical	W	C ₁	C ₂	C ₃	R
	–	–			[mm]			
KD 16-1	NU 431-2/15	6 043 208	6 043 133	435	462	–	–	49
KD 16-2	NU 431-2/30	6 043 220	6 043 148	600	597	–	–	64
KD 16-3	NU 60-2/23	6 043 200	6 043 125	835	736	839	–	53
KD 16-3	NU 431-2/37	6 043 220	6 043 148	600	662	–	–	104
KD 16-3	NU 501-2/4	6 043 229	6 043 165	750	744	–	–	49
KD 16-4	NU 60-2/23	6 043 200	6 043 125	835	781	884	–	53
KD 16-4	NU 431-2/55	6 043 228	6 043 164	750	782	–	–	104
KD 16-4	NU 501-2/5	6 043 229	6 043 165	750	806	–	–	83
KD 16-5	NU 60-2/24	6 043 200	6 043 125	835	826	929	–	53
KD 16-5	NU 501-2/7	6 043 229	6 043 165	750	866	–	–	114
KD 16-6	NU 60-2/24	6 043 200	6 043 125	835	871	974	–	53
KD 16-6	NU 501-2/7	6 043 229	6 043 165	750	911	–	–	114
KD 16-7	NU 60-2/24	6 043 200	6 043 125	835	953	1056	–	53
KD 16-7	NU 501-2/9	6 043 196	6 043 121	835	953	1119	–	62
KD 16-8	NU 60-2/32	6 043 200	6 043 125	835	998	1181	–	133
KD 16-8	NU 501-2/11	6 043 196	6 043 121	835	998	1196	–	94
KD 16-9	NU 60-2/32	6 043 200	6 043 125	835	1043	1226	–	133
KD 16-9	NU 501-2/11	6 043 196	6 043 121	784	978	1241	–	150

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
KD 16...	DN 65	–	–	10-16	–	–	8x18	145	185
	DN 65	–	–	25-40	–	–	8x18	145	185
	DN 80	DN 80	DN 80	10-40	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

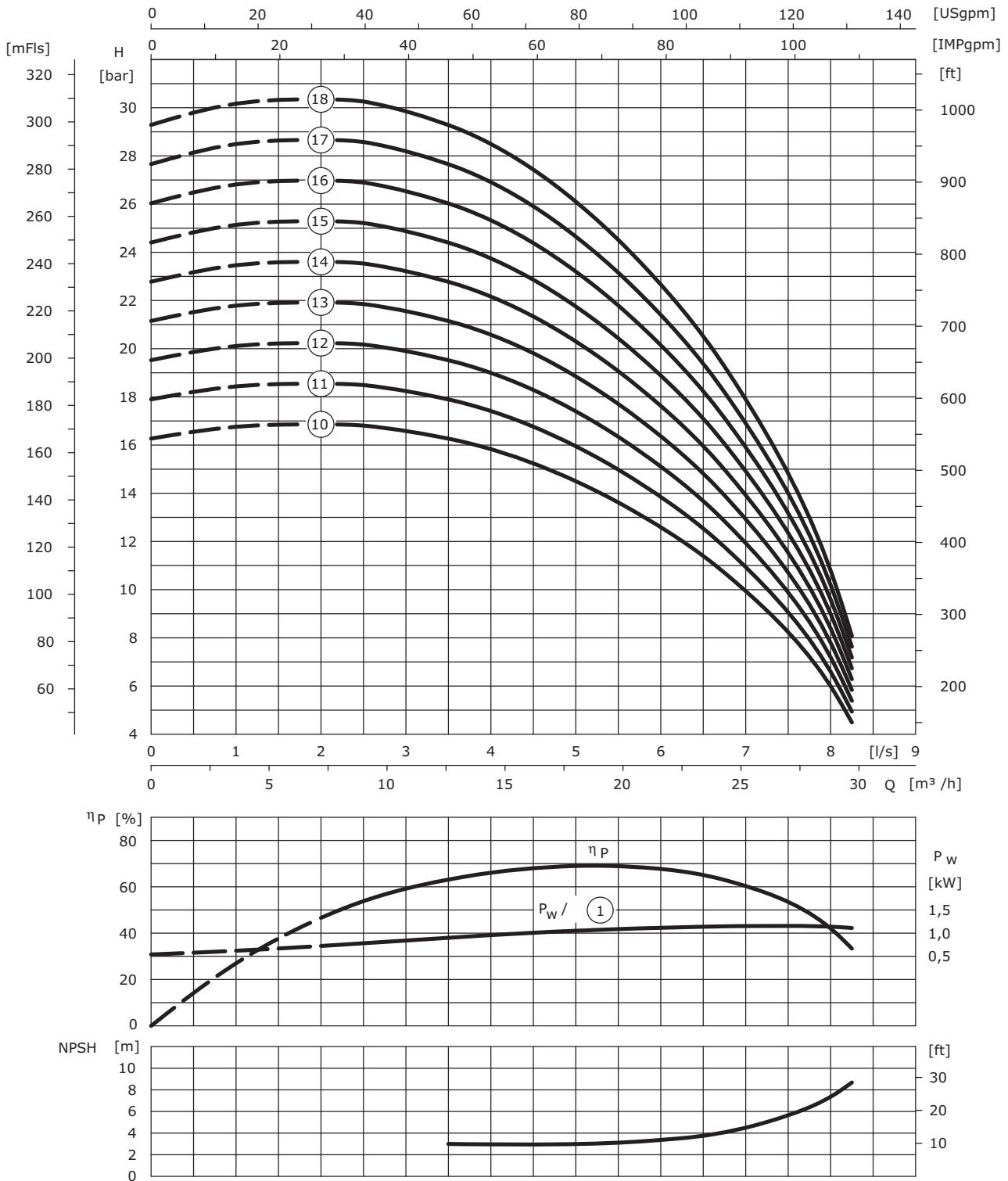
Pump with non-return valve (NRV for vertical installation only), ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN65, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Pump curves Wilo-EMU KD 16

Wilo-EMU KD 16



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU KD 16

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I	
				[kW]	[A]	[kW]	[A]	
KD 16-10	10	A	NU 60-2/32	12.50	27.50	12.50	27.50	V+H
KD 16-10	10	A	NU 501-2/15	15.00	31.30	12.50	27.50	V+H
KD 16-11	11	A	NU 60-2/40	15.50	32.50	13.80	29.50	V
KD 16-11	11	A	NU 501-2/15	15.00	31.30	13.80	29.50	V
KD 16-12	12	A	NU 60-2/40	15.50	32.50	15	31.50	V
KD 16-12	12	A	NU 501-2/15	15.00	31.30	15	31.30	V
KD 16-13	13	A	NU 60-2/40	15.50	32.50	15.50	32.50	V
KD 16-13	13	A	NU 501-2/18	18.50	38.50	15.60	33.50	V
KD 16-14	14	A	NU 60-2/51	21.00	44.50	16.60	36	V
KD 16-14	14	A	NU 501-2/18	18.50	38.50	16.70	35.50	V
KD 16-15	15	A	NU 60-2/51	21.00	44.50	17.70	38	V
KD 16-15	15	A	NU 501-2/18	18.50	38.50	17.70	37	V
KD 16-16	16	A	NU 60-2/51	21.00	44.50	18.70	39.50	V
KD 16-16	16	A	NU 501-2/22	22.00	45.30	18.70	39	V
KD 16-17	17	A	NU 60-2/51	21.00	44.50	19.60	41.50	V
KD 16-17	17	A	NU 501-2/22	22.00	45.30	19.60	40.50	V
KD 16-18	18	A	NU 60-2/51	21.00	44.50	20.70	43.50	V
KD 16-18	18	A	NU 501-2/22	22.00	45.30	20.70	42.50	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	–	PN ₁	L	max. ϕ	–				
	[mm]	–	[bar]	[mm]		[kg]	–			
KD 16...	DN 65	–	10-16	-100	184	-8.4	V	2	⁶⁾	⁶⁾
	DN 65	–	25-40	-100	184	-8.4	V	2	⁶⁾	⁶⁾
	DN 80	–	10-16	-100	184	-9.0	V	2	⁶⁾	⁶⁾
	DN 80	–	25-40	-100	184	-9.0	V	2	⁶⁾	⁶⁾

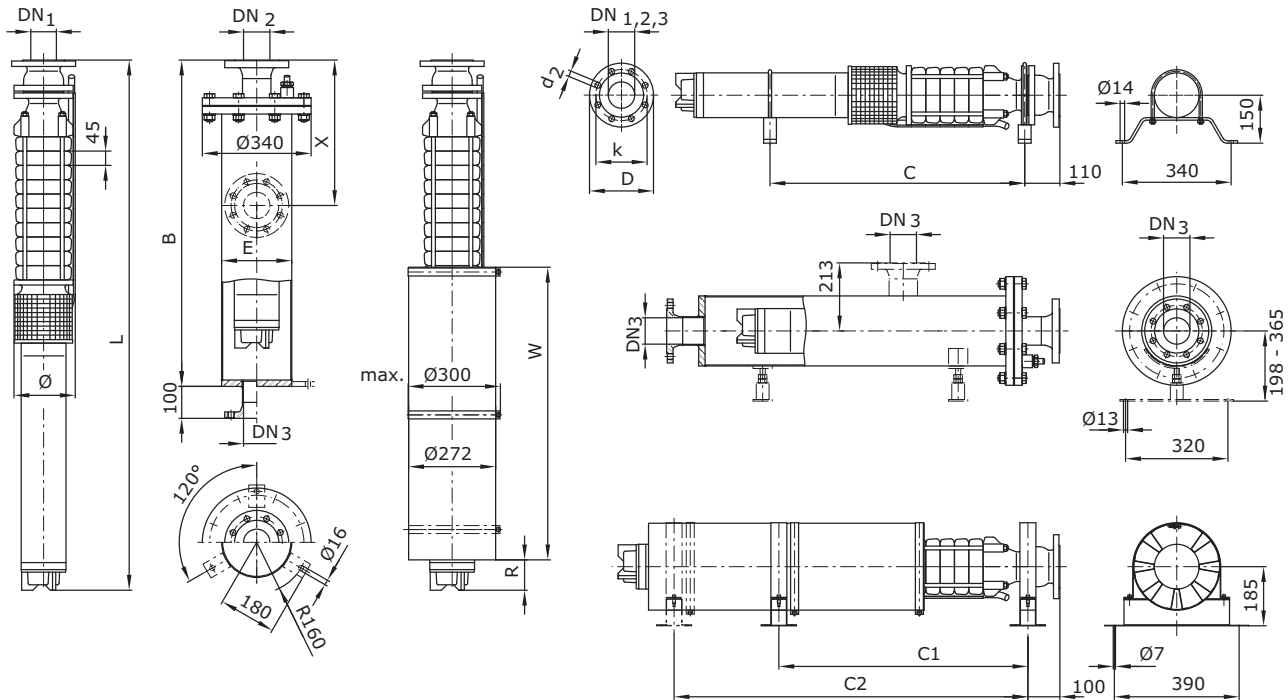
Pump with non-return valve (NRV for vertical installation only), ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. ϕ with flange connection DN65, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU KD 16

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
KD 16-10	NU 60-2/32	1950	1150	219.1	1630	185	120.0	74
KD 16-10	NU 501-2/15	1950	1160	219.1	1656	185	122.0	74
KD 16-11	NU 60-2/40	1950	-	219.1	1755	185	132.0	74
KD 16-11	NU 501-2/15	1950	-	219.1	1701	185	126.0	74
KD 16-12	NU 60-2/40	1950	-	219.1	1800	185	136.0	74
KD 16-12	NU 501-2/15	1950	-	219.1	1746	185	130.0	74
KD 16-13	NU 60-2/40	2250	-	219.1	1845	185	140.0	79
KD 16-13	NU 501-2/18	2250	-	219.1	1857	185	141.0	79
KD 16-14	NU 60-2/51	2250	-	219.1	1990	185	154.0	79
KD 16-14	NU 501-2/18	2250	-	219.1	1902	185	145.0	79
KD 16-15	NU 60-2/51	2250	-	219.1	2072	185	160.0	79
KD 16-15	NU 501-2/18	2250	-	219.1	1984	185	151.0	79
KD 16-16	NU 60-2/51	2250	-	219.1	2117	186	165.0	79
KD 16-16	NU 501-2/22	2250	-	219.1	2094	185	161.0	79
KD 16-17	NU 60-2/51	2550	-	219.1	2162	186	169.0	83
KD 16-17	NU 501-2/22	2550	-	219.1	2139	185	165.0	83
KD 16-18	NU 60-2/51	2550	-	219.1	2207	186	173.0	83
KD 16-18	NU 501-2/22	2550	-	219.1	2184	185	169.0	83

Accessories Wilo-EMU KD 16

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4..	–	6 038 566	1)	1)
NU 6..	–	6 038 268	6 044 428	1)
NU 501	–	6 038 268	6 044 428	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
	–	–			[mm]			
KD 16-10	NU 60-2/32	6 043 200	6 043 125	835	1088	1271	–	133
KD 16-10	NU 501-2/15	6 043 196	6 043 121	844	1088	1351	–	150
KD 16-11	NU 60-2/40	–	6 043 130	985	–	–	–	63
KD 16-11	NU 501-2/15	–	6 043 121	844	–	–	–	150
KD 16-12	NU 60-2/40	–	6 043 130	985	–	–	–	63
KD 16-12	NU 501-2/15	–	6 043 121	844	–	–	–	150
KD 16-13	NU 60-2/40	–	6 043 130	985	–	–	–	63
KD 16-13	NU 501-2/18	–	6 043 189	1000	–	–	–	60
KD 16-14	NU 60-2/51	–	6 043 192	1000	–	–	–	148
KD 16-14	NU 501-2/18	–	6 043 189	1000	–	–	–	60
KD 16-15	NU 60-2/51	–	6 043 192	1000	–	–	–	148
KD 16-15	NU 501-2/18	–	6 043 189	1000	–	–	–	60
KD 16-16	NU 60-2/51	–	6 043 192	1000	–	–	–	148
KD 16-16	NU 501-2/22	–	6 043 189	1000	–	–	–	125
KD 16-17	NU 60-2/51	–	6 043 192	1000	–	–	–	148
KD 16-17	NU 501-2/22	–	6 043 189	1000	–	–	–	125
KD 16-18	NU 60-2/51	–	6 043 192	1000	–	–	–	148
KD 16-18	NU 501-2/22	–	6 043 189	1000	–	–	–	125

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
KD 16...	DN 65	–	–	10-16	–	–	8x18	145	185
	DN 65	–	–	25-40	–	–	8x18	145	185
	DN 80	DN 80	DN 80	10-40	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

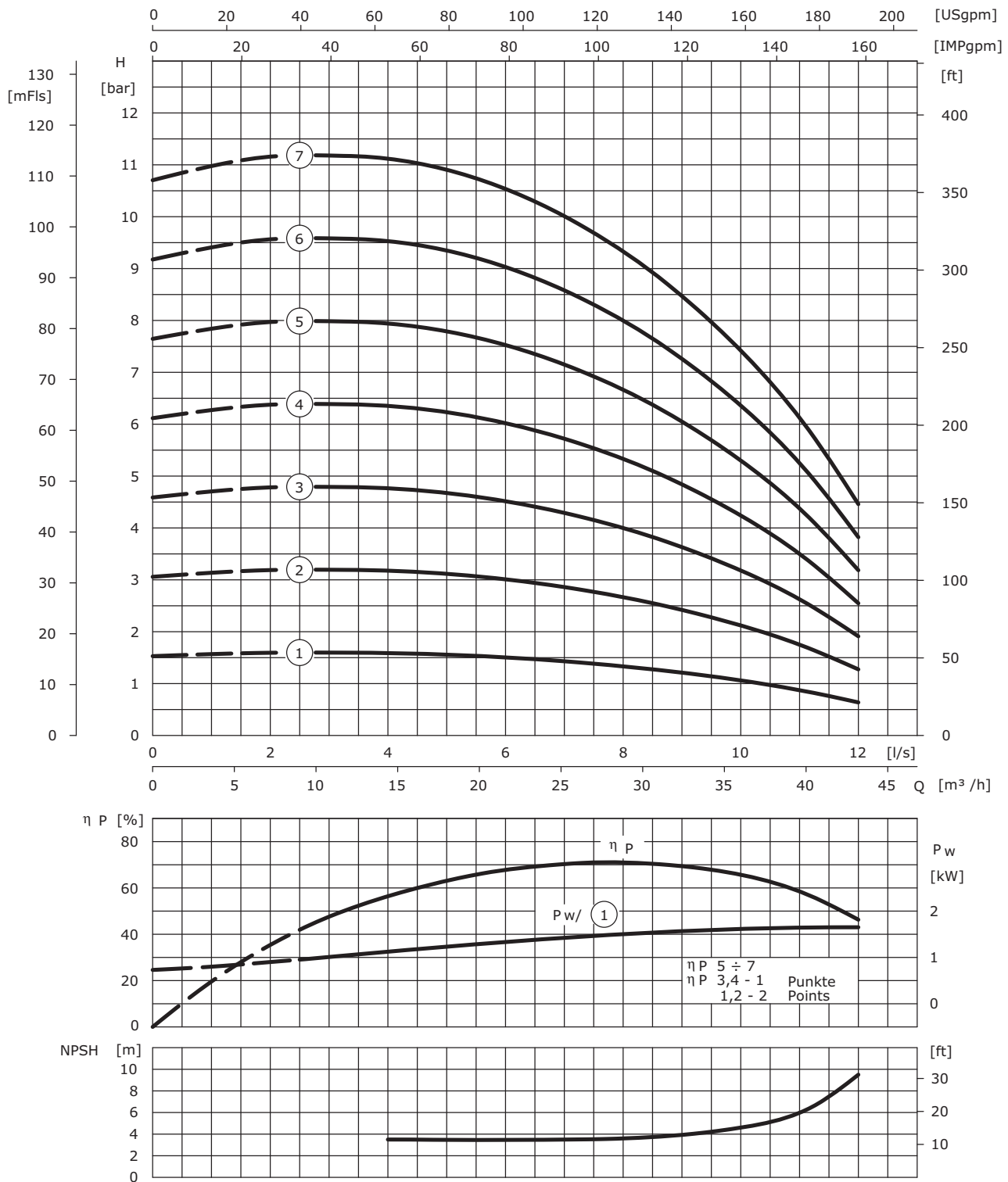
Pump with non-return valve (NRV for vertical installation only), ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN65, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilо-EMU 8" series

Pump curves Wilо-EMU KD 25

Wilо-EMU KD 25



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU KD 25

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I	-
				[kW]	[A]	[kW]	[A]	-
KD 25-1	1	A	NU 431-2/22	2.20	5.90	1.80	5.30	V+H
KD 25-2	2	A	NU 60-2/23	5.50	12.20	3.60	9	V+H
KD 25-2	2	A	NU 431-2/37	3.70	9.10	3.60	8.60	V+H
KD 25-2	2	A	NU 501-2/4	4.00	9.30	3.60	8.50	V+H
KD 25-3	3	A	NU 60-2/24	5.50	12.20	5.30	11.90	V+H
KD 25-3	3	A	NU 431-2/55	5.50	13.70	5.30	12.90	V+H
KD 25-3	3	A	NU 501-2/5	5.50	12.50	5.30	12	V+H
KD 25-4	4	A	NU 60-2/24	9.00	19.80	7	16.30	V+H
KD 25-4	4	A	NU 501-2/7	7.50	16	7	15.10	V+H
KD 25-5	5	A	NU 60-2/24	9.00	19.80	8.20	18.30	V+H
KD 25-5	5	A	NU 501-2/9	9.30	20.70	8.50	19.40	V+H
KD 25-6	6	A	NU 60-2/32	12.50	27.50	10.20	23	V+H
KD 25-6	6	A	NU 501-2/11	11.00	23.30	10.20	22	V+H
KD 25-7	7	A	NU 60-2/32	12.50	27.50	11.70	25.50	V+H
KD 25-7	7	A	NU 501-2/15	15.00	31.30	11.90	26	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN_1	PN_1						L	max. ϕ
				[mm]	[bar]						[mm]	[mm]
KD 25...	DN 65	-	10-16	-100	184	-8.4	V	2	⁶⁾	⁶⁾		
	DN 65	-	25-40	-100	184	-8.4	V	2	⁶⁾	⁶⁾		
	DN 80	-	10-16	-100	184	-9.0	V	2	⁶⁾	⁶⁾		
	DN 80	-	25-40	-100	184	-9.0	V	2	⁶⁾	⁶⁾		

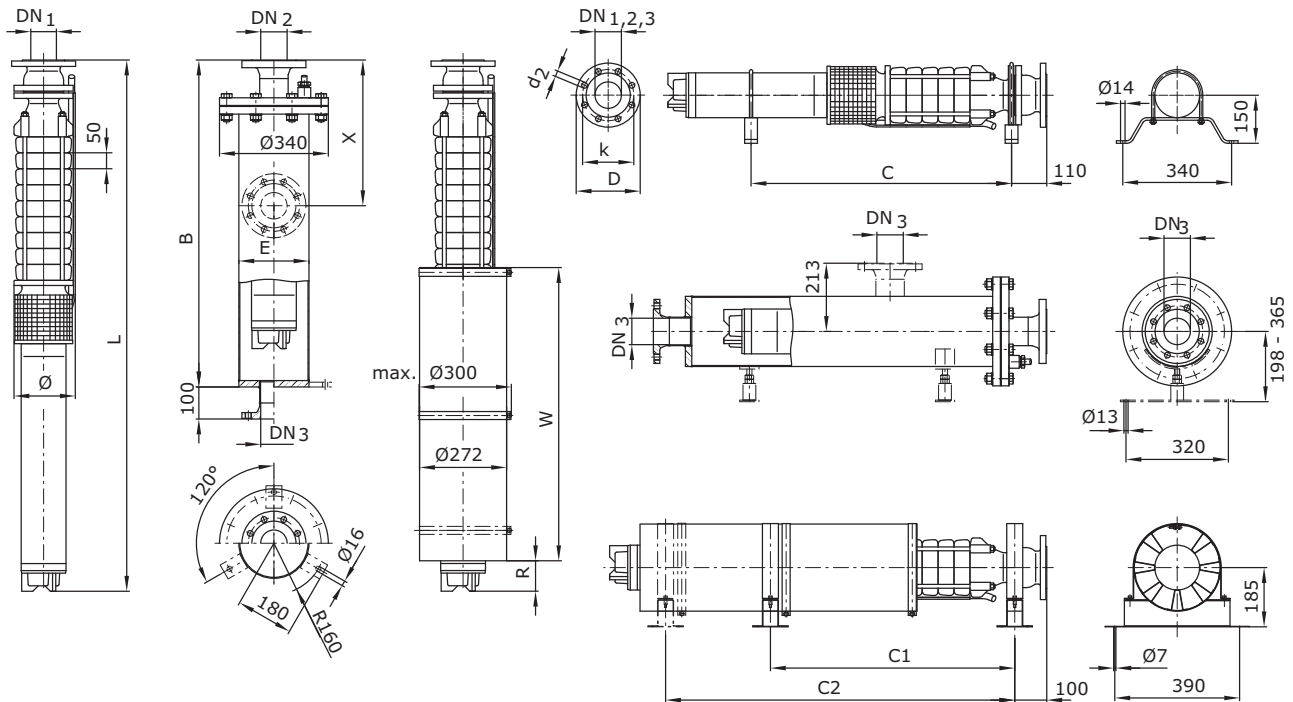
Pump with non-return valve (NRV for vertical installation only), ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. ϕ with flange connection DN65, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU KD 25

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
KD 25-1	NU 431-2/22	1050	440	219.1	732	185	39.2	59
KD 25-2	NU 60-2/23	1350	720	219.1	1158	185	81.0	64
KD 25-2	NU 431-2/37	1350	590	219.1	974	185	53.0	64
KD 25-2	NU 501-2/4	1350	670	219.1	1069	185	71.0	64
KD 25-3	NU 60-2/24	1350	770	219.1	1208	185	85.0	64
KD 25-3	NU 431-2/55	1350	710	219.1	1174	185	64.0	64
KD 25-3	NU 501-2/5	1350	740	219.1	1153	185	79.0	64
KD 25-4	NU 60-2/24	1650	820	219.1	1258	185	90.0	69
KD 25-4	NU 501-2/7	1650	800	219.1	1234	185	88.0	69
KD 25-5	NU 60-2/24	1650	870	219.1	1308	185	94.0	69
KD 25-5	NU 501-2/9	1650	870	219.1	1317	185	95.0	69
KD 25-6	NU 60-2/32	1650	990	219.1	1470	185	109.0	69
KD 25-6	NU 501-2/11	1650	970	219.1	1431	185	105.0	69
KD 25-7	NU 60-2/32	1950	1040	219.1	1520	185	113.0	74
KD 25-7	NU 501-2/15	1950	1050	219.1	1546	185	115.0	74

Accessories Wilo-EMU KD 25

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4..	–	6 038 566	1)	1)
NU 6..	–	6 038 268	6 044 428	1)
NU 501	–	6 038 268	6 044 428	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
	–	horizontal	vertical	W	C ₁	C ₂	C ₃	R
	–	–			[mm]			
KD 25-1	NU 431-2/22	6 043 208	6 043 133	435	476	–	–	79
KD 25-2	NU 60-2/23	6 043 200	6 043 125	835	693	799	–	55
KD 25-2	NU 431-2/37	6 043 220	6 043 148	600	622	–	–	106
KD 25-2	NU 501-2/4	6 043 229	6 043 165	750	704	–	–	51
KD 25-3	NU 60-2/24	6 043 200	6 043 125	835	743	849	–	55
KD 25-3	NU 431-2/55	6 043 228	6 043 164	750	747	–	–	106
KD 25-3	NU 501-2/5	6 043 229	6 043 165	750	771	–	–	85
KD 25-4	NU 60-2/24	6 043 200	6 043 125	835	793	899	–	55
KD 25-4	NU 501-2/7	6 043 229	6 043 165	750	836	–	–	116
KD 25-5	NU 60-2/24	6 043 200	6 043 125	835	843	949	–	55
KD 25-5	NU 501-2/9	6 043 196	6 043 121	835	843	1012	–	64
KD 25-6	NU 60-2/32	6 043 200	6 043 125	835	925	1111	–	135
KD 25-6	NU 501-2/11	6 043 196	6 043 121	835	925	1126	–	96
KD 25-7	NU 60-2/32	6 043 200	6 043 125	835	975	1161	–	135
KD 25-7	NU 501-2/15	6 043 196	6 043 121	846	975	1241	–	150

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
KD 25...	DN 65	–	–	10-16	–	–	8x18	145	185
	DN 65	–	–	25-40	–	–	8x18	145	185
	DN 80	DN 80	DN 80	10-40	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

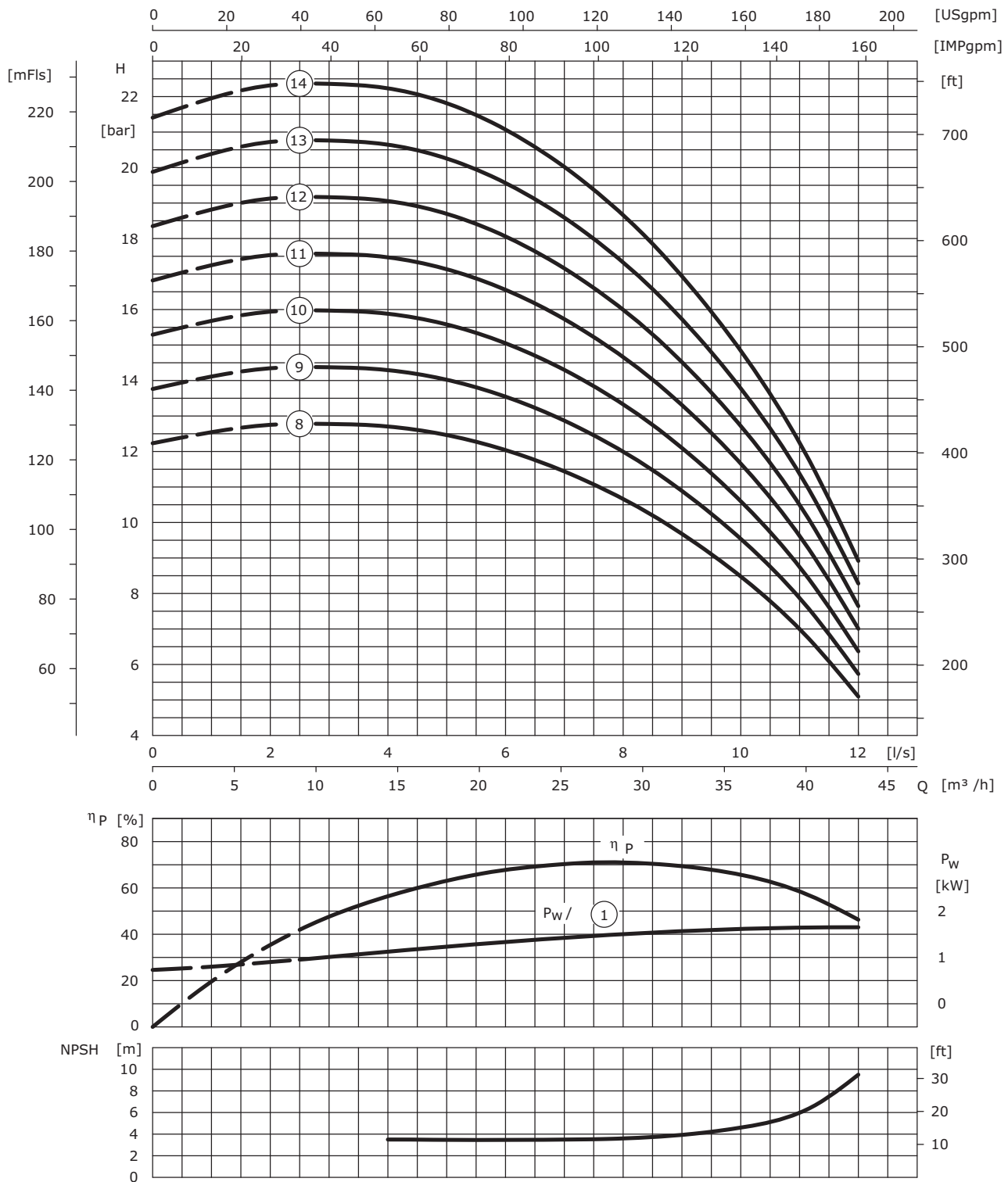
Pump with non-return valve (NRV for vertical installation only), ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. ϕ with flange connection DN65, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilо-EMU 8" series

Pump curves Wilо-EMU KD 25

Wilо-EMU KD 25



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU KD 25

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂ [kW]	I _N [A]	P _W [kW]	I [A]	
KD 25-8	8	A	NU 60-2/40	15.50	32.50	13.50	29.50	V+H
KD 25-8	8	A	NU 501-2/15	15.00	31.30	13.60	29	V+H
KD 25-9	9	A	NU 60-2/40	15.50	32.50	14.90	31.50	V+H
KD 25-9	9	A	NU 501-2/18	18.50	38.50	15.30	33	V+H
KD 25-10	10	A	NU 60-2/51	21.00	44.50	16.90	36.50	V+H
KD 25-10	10	A	NU 501-2/18	18.50	38.50	16.80	35.50	V+H
KD 25-11	11	A	NU 60-2/51	21.00	44.50	18.40	39	V
KD 25-11	11	A	NU 501-2/18	18.50	38.50	18.20	38	V
KD 25-12	12	A	NU 60-2/51	21.00	44.50	19.90	42	V
KD 25-12	12	A	NU 501-2/22	22.00	45.30	20.30	44	V
KD 25-13	13	A	NU 60-2/61	25.00	52	22	46.50	V
KD 25-13	13	A	NU 501-2/22	22.00	45.30	22	45.30	V
KD 25-14	14	A	NU 60-2/61	25.00	52	23.60	49.50	V
KD 25-14	14	A	NU 501-2/30	30.00	63.50	24	52	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. Ø					
	[mm]	-	[bar]	[mm]		[kg]				
KD 25...	DN 65	-	10-16	-100	184	-8.4	V	2	6)	6)
	DN 65	-	25-40	-100	184	-8.4	V	2	6)	6)
	DN 80	-	10-16	-100	184	-9.0	V	2	6)	6)
	DN 80	-	25-40	-100	184	-9.0	V	2	6)	6)

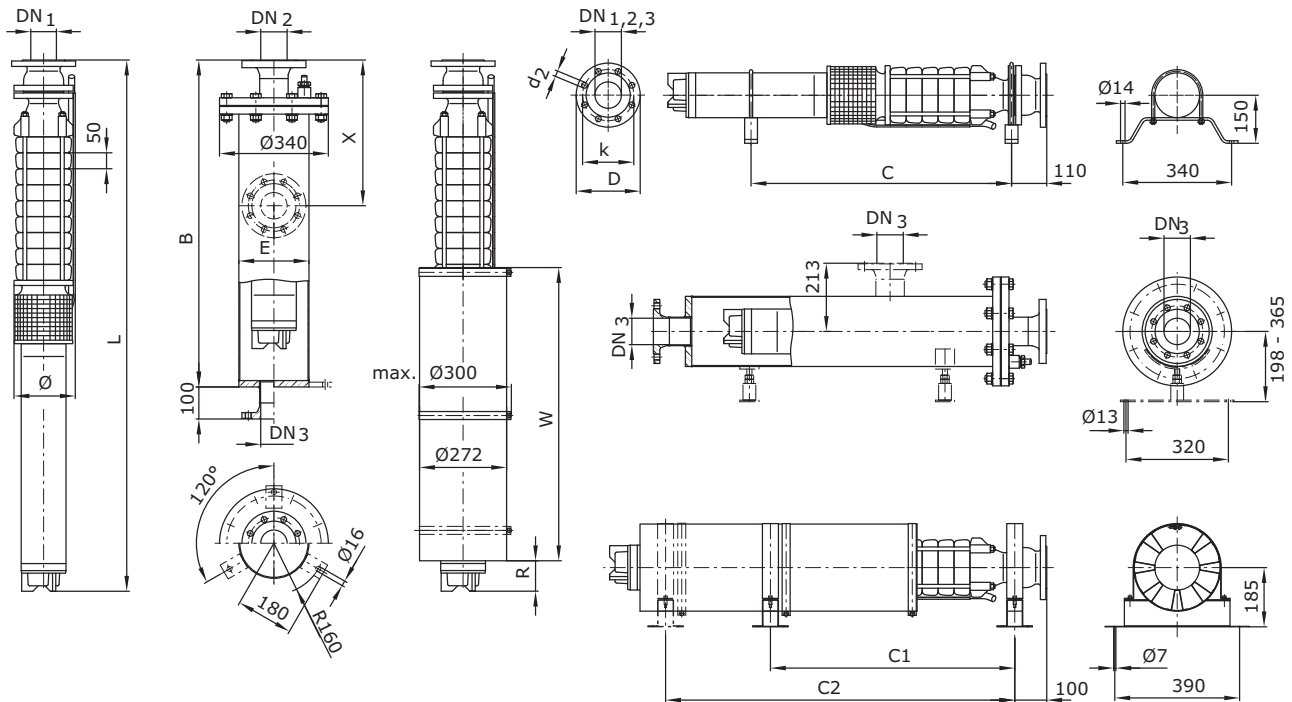
Pump with non-return valve (NRV for vertical installation only), ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. Ø with flange connection DN65, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU KD 25

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
KD 25-8	NU 60-2/40	1950	1130	219.1	1650	185	126.0	74
KD 25-8	NU 501-2/15	1950	1100	219.1	1596	185	119.0	74
KD 25-9	NU 60-2/40	1950	1180	219.1	1700	185	130.0	74
KD 25-9	NU 501-2/18	1950	1180	219.1	1712	185	130.0	74
KD 25-10	NU 60-2/51	2250	1280	219.1	1850	185	145.0	79
KD 25-10	NU 501-2/18	1950	1230	219.1	1762	185	135.0	74
KD 25-11	NU 60-2/51	2250	-	219.1	1900	186	149.0	79
KD 25-11	NU 501-2/18	2250	-	219.1	1812	185	140.0	79
KD 25-12	NU 60-2/51	2250	-	219.1	1950	186	154.0	79
KD 25-12	NU 501-2/22	2250	-	219.1	1927	185	150.0	79
KD 25-13	NU 60-2/61	2250	-	219.1	2100	186	168.0	79
KD 25-13	NU 501-2/22	2250	-	219.1	1977	185	154.0	79
KD 25-14	NU 60-2/61	2550	-	219.1	2150	186	173.0	83
KD 25-14	NU 501-2/30	2550	-	219.1	2157	185	173.0	83

Accessories Wilo-EMU KD 25

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4..	–	6 038 566	1)	1)
NU 6..	–	6 038 268	6 044 428	1)
NU 501	–	6 038 268	6 044 428	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length	Bearing position			Inlet gap
	–	horizontal	vertical	W	C ₁	C ₂	C ₃	R
	–	–			[mm]			
KD 25-8	NU 60-2/40	6 043 243	6 043 192	1000	1160	–	–	50
KD 25-8	NU 501-2/15	6 043 196	6 043 121	846	1025	1291	–	150
KD 25-9	NU 60-2/40	6 043 243	6 043 192	1000	1210	–	–	50
KD 25-9	NU 501-2/18	6 043 240	6 043 189	1000	1216	–	–	62
KD 25-10	NU 60-2/51	6 043 243	6 043 192	1000	1310	–	–	150
KD 25-10	NU 501-2/18	6 043 240	6 043 189	1000	1266	–	–	62
KD 25-11	NU 60-2/51	–	6 043 192	1000	–	–	–	150
KD 25-11	NU 501-2/18	–	6 043 189	1000	–	–	–	62
KD 25-12	NU 60-2/51	–	6 043 192	1000	–	–	–	150
KD 25-12	NU 501-2/22	–	6 043 189	1000	–	–	–	127
KD 25-13	NU 60-2/61	–	6 043 142	1150	–	–	–	100
KD 25-13	NU 501-2/22	–	6 043 189	1003	–	–	–	124
KD 25-14	NU 60-2/61	–	6 043 142	1150	–	–	–	100
KD 25-14	NU 501-2/30	–	6 043 134	1150	–	–	–	107

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
KD 25...	DN 65	–	–	10-16	–	–	8x18	145	185
	DN 65	–	–	25-40	–	–	8x18	145	185
	DN 80	DN 80	DN 80	10-40	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

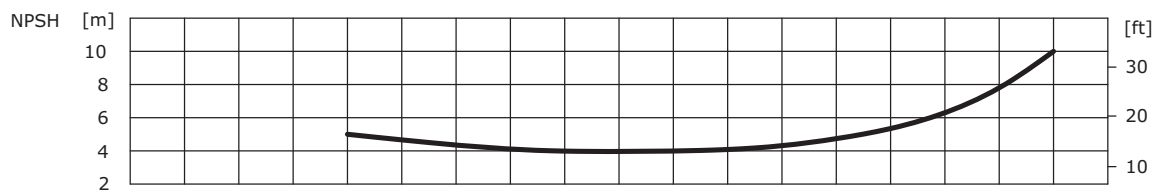
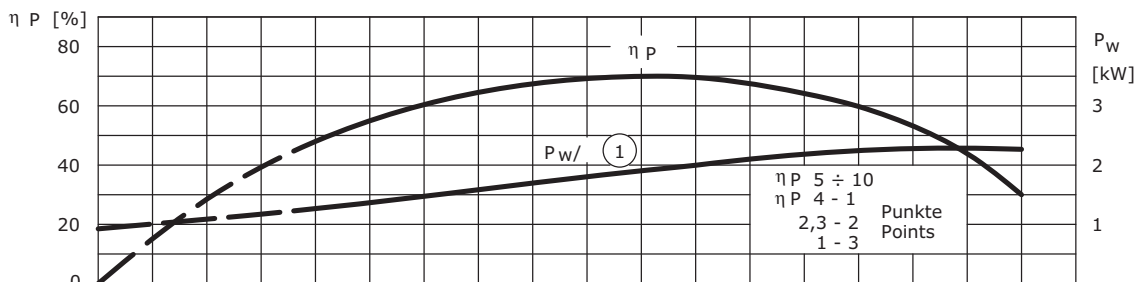
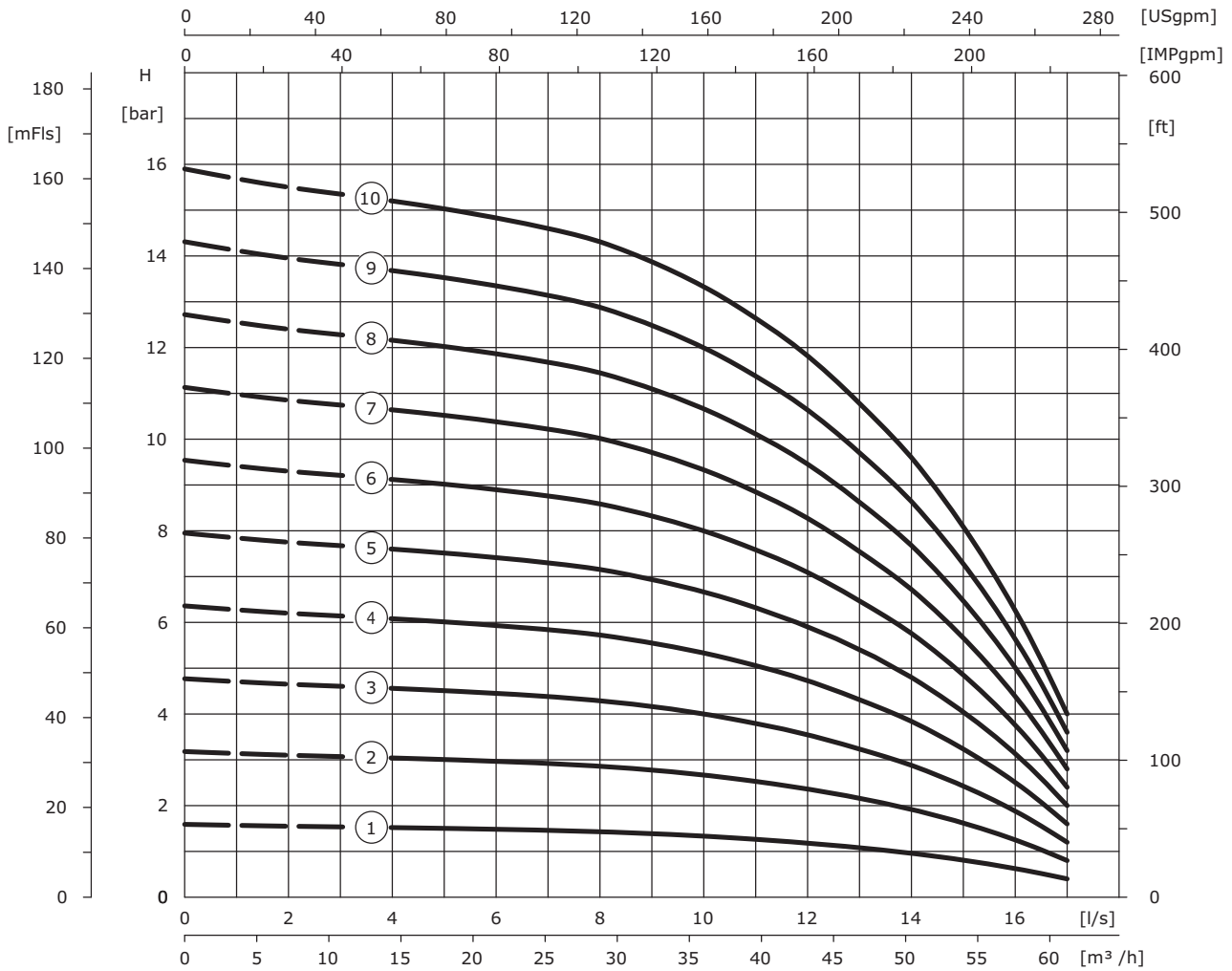
Pump with non-return valve (NRV for vertical installation only), ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN65, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Pump curves Wilo-EMU KD 38

Wilo-EMU KD 38



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU KD 38

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I	-
				[kW]	[A]	[kW]	[A]	-
KD 38-1	1	A	NU 60-2/23	5.50	12.20	2.50	7.20	V+H
KD 38-1	1	A	NU 431-2/30	3.00	7.80	2.50	7	V+H
KD 38-2	2	A	NU 60-2/23	5.50	12.20	5	11.50	V+H
KD 38-2	2	A	NU 431-2/55	5.50	13.70	5	12.50	V+H
KD 38-3	3	A	NU 60-2/24	9.00	19.80	7.50	17.10	V+H
KD 38-3	3	A	NU 501-2/7	7.50	16	7.50	16	V+H
KD 38-4	4	A	NU 60-2/32	12.50	27.50	10	22.50	V+H
KD 38-4	4	A	NU 501-2/11	11.00	23.30	10	22	V+H
KD 38-5	5	A	NU 60-2/32	12.50	27.50	12.50	27.50	V+H
KD 38-5	5	A	NU 501-2/15	15.00	31.30	12.50	27.50	V+H
KD 38-6	6	A	NU 60-2/40	15.50	32.50	15	31.50	V+H
KD 38-6	6	A	NU 501-2/15	15.00	31.30	15	31.30	V+H
KD 38-7	7	A	NU 60-2/51	21.00	44.50	17.50	37.50	V
KD 38-7	7	A	NU 501-2/18	18.50	38.50	17.50	37	V
KD 38-8	8	A	NU 60-2/51	21.00	44.50	20	42	V
KD 38-8	8	A	NU 501-2/18	18.50	38.50	18.50	38.50	V
KD 38-9	9	A	NU 60-2/51	21.00	44.50	21	44.50	V
KD 38-9	9	A	NU 501-2/22	22.00	45.50	22	45.50	V
KD 38-10	10	A	NU 60-2/61	25.00	52	25	52	V
KD 38-10	10	A	NU 501-2/30	30.00	63.50	25	55	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Connec- tion	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. ϕ					
	[mm]	-	[bar]	[mm]		[kg]				
KD 38...	DN 65	-	10-16	-100	184	-8.4	V	2	6)	6)
	DN 65	-	25-40	-100	184	-8.4	V	2	6)	6)
	DN 80	-	10-16	-100	184	-9.0	V	2	6)	6)
	DN 80	-	25-40	-100	184	-9.0	V	2	6)	6)

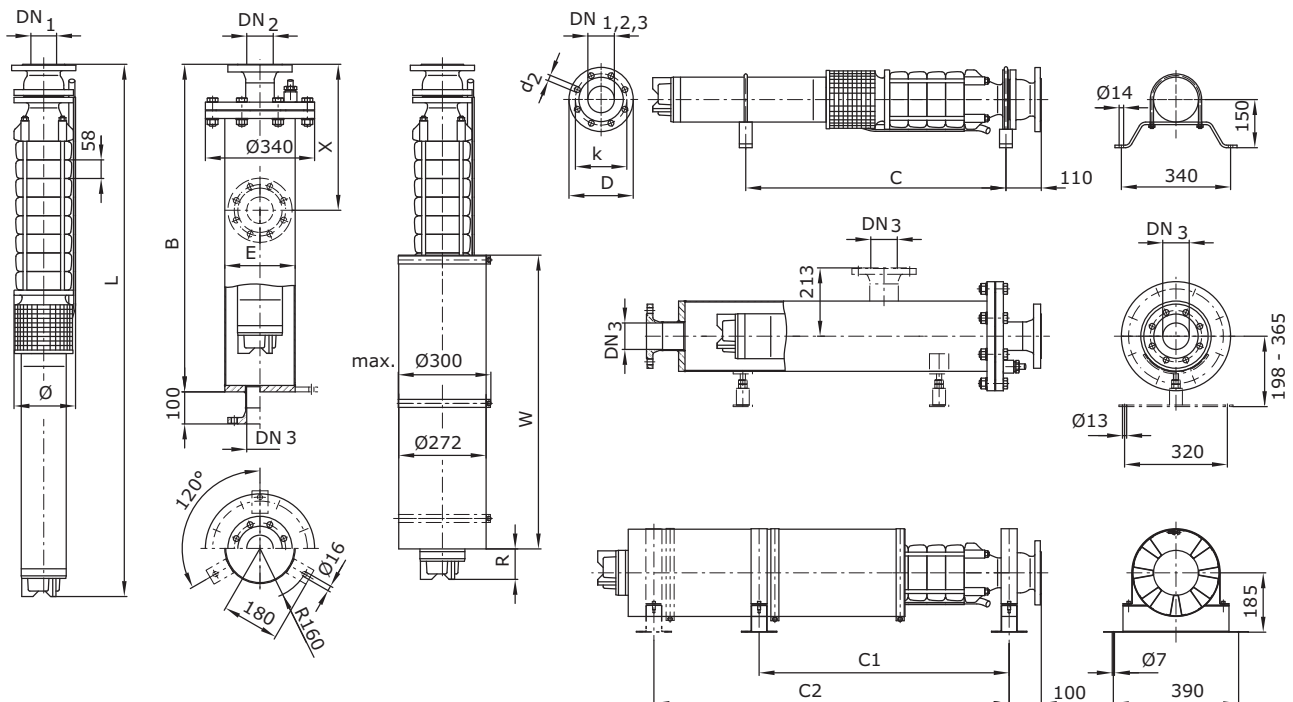
Pump with non-return valve (NRV for vertical installation only), ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN65, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU KD 38

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
KD 38-1	NU 60-2/23	1350	670	219.1	1108	185	75.0	64
KD 38-1	NU 431-2/30	1050	520	219.1	884	185	46.0	59
KD 38-2	NU 60-2/23	1350	730	219.1	1166	185	80.0	64
KD 38-2	NU 431-2/55	1350	670	219.1	1132	185	62.0	64
KD 38-3	NU 60-2/24	1650	780	219.1	1224	185	86.0	69
KD 38-3	NU 501-2/7	1350	770	219.1	1200	185	84.0	64
KD 38-4	NU 60-2/32	1650	880	219.1	1362	185	99.0	69
KD 38-4	NU 501-2/11	1650	860	219.1	1323	185	95.0	69
KD 38-5	NU 60-2/32	1650	940	219.1	1420	185	104.0	69
KD 38-5	NU 501-2/15	1650	950	219.1	1446	185	106.0	69
KD 38-6	NU 60-2/40	1950	1040	219.1	1558	185	118.0	74
KD 38-6	NU 501-2/15	1650	1010	219.1	1504	185	112.0	69
KD 38-7	NU 60-2/51	1950	-	219.1	1716	185	133.0	74
KD 38-7	NU 501-2/18	1950	-	219.1	1628	185	124.0	74
KD 38-8	NU 60-2/51	1950	-	219.1	1774	186	139.0	74
KD 38-8	NU 501-2/18	1950	-	219.1	1686	185	130.0	74
KD 38-9	NU 60-2/51	2250	-	219.1	1832	186	144.0	79
KD 38-9	NU 501-2/22	2250	-	219.1	1809	185	140.0	79
KD 38-10	NU 60-2/61	2250	-	219.1	1990	189	159.0	79
KD 38-10	NU 501-2/30	2250	-	219.1	1997	185	160.0	79

Accessories Wilo-EMU KD 38

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 4..	–	6 038 566	1)	1)
NU 6..	–	6 038 268	6 044 428	1)
NU 501	–	6 038 268	6 044 428	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
				[mm]				
KD 38-1	NU 60-2/23	6 043 200	6 043 125	835	639	749	–	59
KD 38-1	NU 431-2/30	6 043 220	6 043 148	600	552	–	–	70
KD 38-2	NU 60-2/23	6 043 200	6 043 125	835	697	807	–	59
KD 38-2	NU 431-2/55	6 043 228	6 043 164	750	705	–	–	110
KD 38-3	NU 60-2/24	6 043 200	6 043 125	835	755	865	–	59
KD 38-3	NU 501-2/7	6 043 229	6 043 165	750	802	–	–	120
KD 38-4	NU 60-2/32	6 043 200	6 043 125	835	813	1003	–	139
KD 38-4	NU 501-2/11	6 043 196	6 043 121	835	813	1018	–	100
KD 38-5	NU 60-2/32	6 043 200	6 043 125	835	871	1061	–	139
KD 38-5	NU 501-2/15	6 043 196	6 043 121	850	871	1141	–	150
KD 38-6	NU 60-2/40	6 043 243	6 043 192	1000	1068	–	–	54
KD 38-6	NU 501-2/15	6 043 196	6 043 121	850	929	1199	–	150
KD 38-7	NU 60-2/51	–	6 043 142	1104	–	–	–	50
KD 38-7	NU 501-2/18	–	6 043 189	1000	–	–	–	66
KD 38-8	NU 60-2/51	–	6 043 142	1104	–	–	–	50
KD 38-8	NU 501-2/18	–	6 043 189	1000	–	–	–	66
KD 38-9	NU 60-2/51	–	6 043 142	1020	–	–	–	134
KD 38-9	NU 501-2/22	–	6 043 189	1000	–	–	–	131
KD 38-10	NU 60-2/61	–	6 043 142	1150	–	–	–	104
KD 38-10	NU 501-2/30	–	6 043 134	1150	–	–	–	111

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
				[bar]			[mm]		
KD 38...	DN 65	–	–	10-16	–	–	8x18	145	185
	DN 65	–	–	25-40	–	–	8x18	145	185
	DN 80	DN 80	DN 80	10-40	10-40	10	8x18	160	200
	–	–	DN 100	–	–	10	8x18	180	220

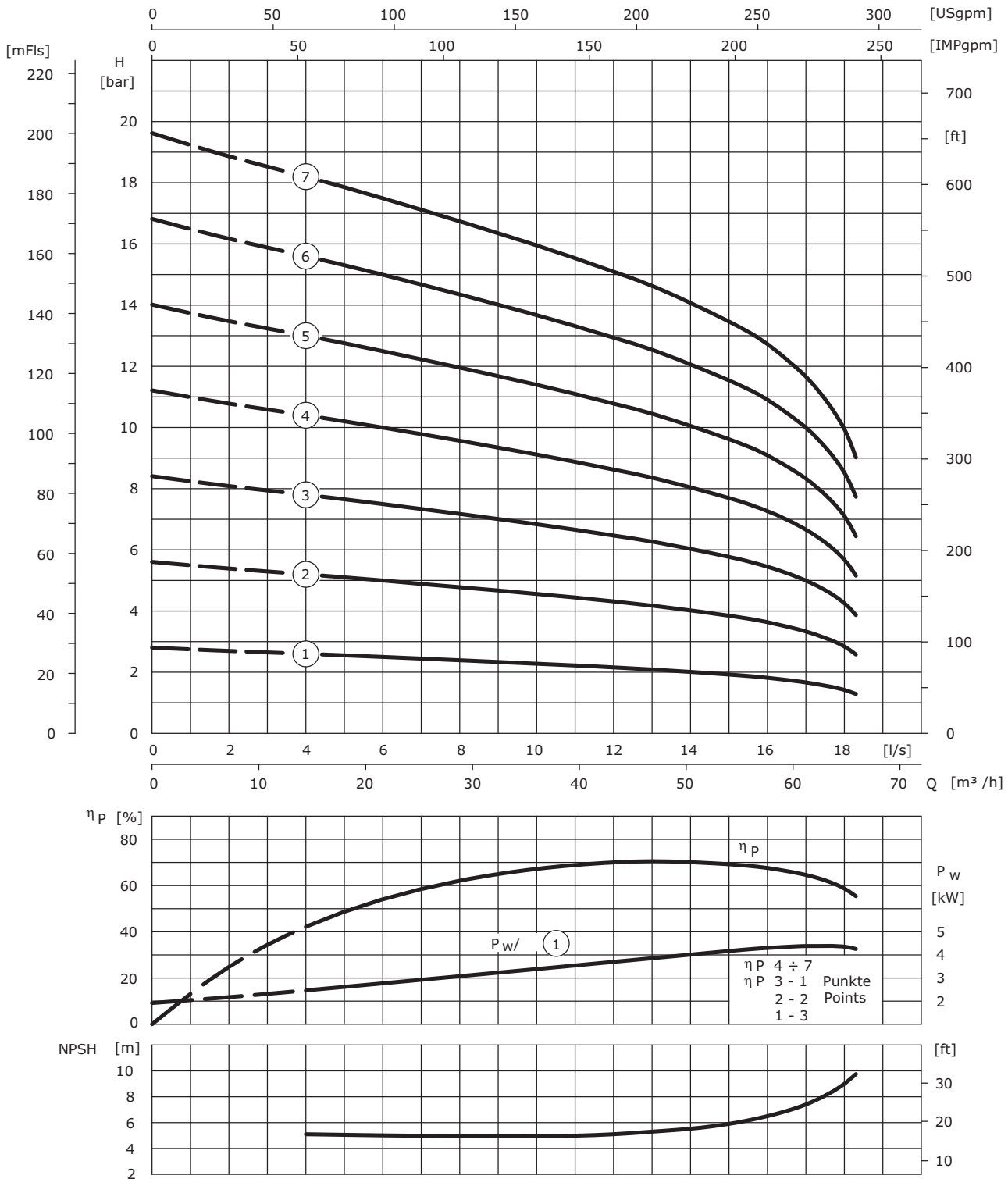
Pump with non-return valve (NRV for vertical installation only), ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN65, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilо-EMU 8" series

Pump curves Wilо-EMU K 83.1

Wilо-EMU K 83.1



400 V, 50 Hz, ρ = 1 kg/dm³, ν = 1 × 10⁻⁶ m²/s, ISO 9906 appendix A

Technical data Wilo-EMU K 83.1

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I	-
				[kW]	[A]	[kW]	[A]	-
K 83.1-1	1	A	NU 60-2/23	5.50	12.20	4.60	10.70	V+H
K 83.1-1	1	A	NU 501-2/5	5.50	12.50	4.70	11	V+H
K 83.1-2	2	A	NU 60-2/32	12.50	27.50	9.30	21.50	V+H
K 83.1-2	2	A	NU 501-2/9	9.30	20.70	9.30	20.70	V+H
K 83.1-3	3	A	NU 60-2/40	15.50	32.50	13.50	29.50	V+H
K 83.1-3	3	A	NU 501-2/15	15.00	31.30	13.60	29	V+H
K 83.1-4	4	A	NU 60-2/51	21.00	44.50	17.90	38	V+H
K 83.1-4	4	A	NU 501-2/18	18.50	38.50	17.80	37.50	V+H
K 83.1-5	5	A	NU 60-2/61	25.00	52	22.60	47.50	V+H
K 83.1-5	5	A	NU 501-2/30	30.00	63.50	23.10	51	V+H
K 83.1-6	6	A	NU 610-2/74	30.00	67	26.80	63	V+H
K 83.1-6	6	A	NU 501-2/30	30.00	63.50	27.30	58	V+H
K 83.1-7	7	A	NU 801-2/45	37.00	74	33	66	V+H ¹⁾
K 83.1-7	7	A	NU 501-2/37	37.00	73	32	65	V+H ¹⁾
K 83.1-7	7	A	NU 611-2/82	34.00	71	31	66	V+H ¹⁾

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN ₁	PN ₁						L	max. ϕ
K 83.1...	DN 65	-	10-16	180	185	13.3	V+H	1	6)	6)		
	DN 65	-	25-40	180	185	13.3	V+H	1	6)	6)		
	DN 80	-	10-16	180	200	14.0	V+H	1	6)	6)		
	DN 80	-	25-40	180	200	14.0	V+H	1	6)	6)		
	DN 100	-	10-16	160	220	14.0	V+H	1	6)	6)		
	DN 100	-	25-40	160	235	14.5	V+H	1	6)	6)		
	R 3	I	10-25	180	182	10.0	V+H	1	6)	6)		
	R 3	I	40	180	182	10.0	V+H	1	6)	6)		
	R 4	E	10-25	180	182	10.0	V+H	1	6)	6)		
	R 4	E	40	180	182	10.0	V+H	1	6)	6)		

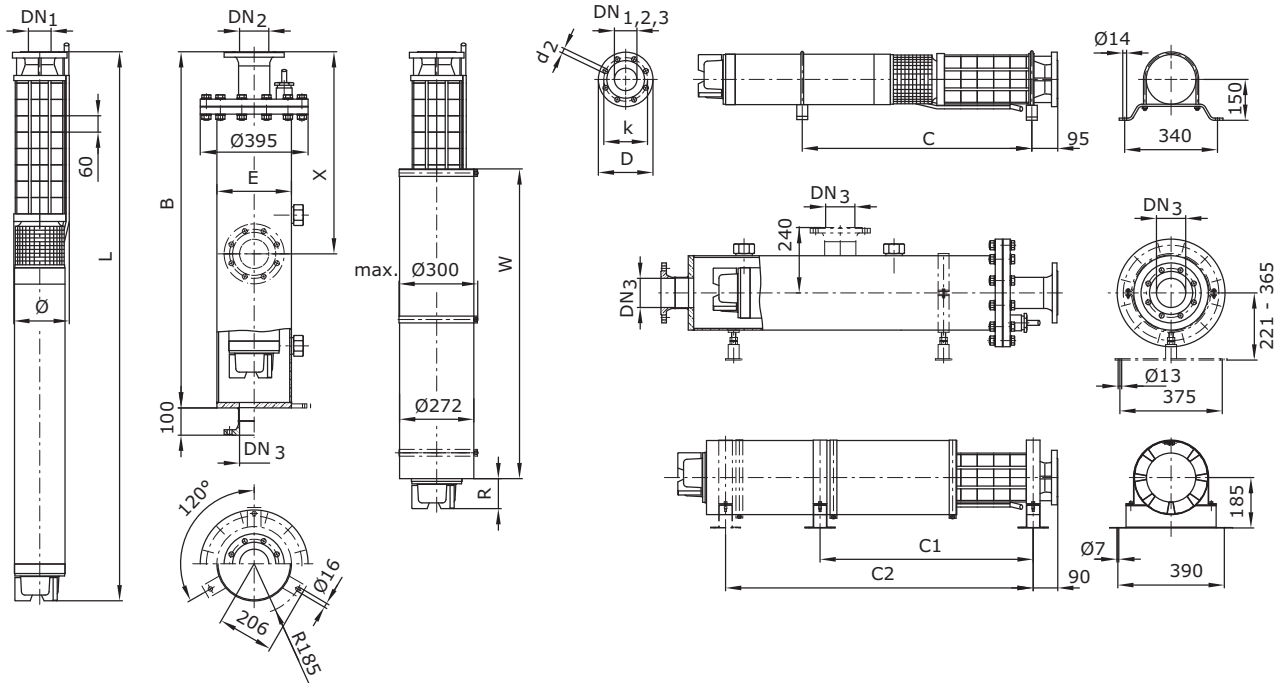
Pump without NRV, with NRV DN65, 80 = L+180mm, DN100 = L+160mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN65, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU K 83.1

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
K 83.1-1	NU 60-2/23	1400	620	273	1040	191	73.0	100
K 83.1-1	NU 501-2/5	1400	580	273	985	191	68.0	100
K 83.1-2	NU 60-2/32	1700	720	273	1180	191	86.0	108
K 83.1-2	NU 501-2/9	1700	680	273	1109	191	79.0	108
K 83.1-3	NU 60-2/40	1700	820	273	1320	191	99.0	108
K 83.1-3	NU 501-2/15	1700	780	273	1266	191	93.0	108
K 83.1-4	NU 60-2/51	2000	930	273	1480	191	114.0	116
K 83.1-4	NU 501-2/18	2000	880	273	1392	191	111.0	116
K 83.1-5	NU 60-2/61	2000	1040	273	1640	192	129.0	116
K 83.1-5	NU 501-2/30	2000	1030	273	1647	191	130.0	116
K 83.1-6	NU 610-2/74	2300	1160	273	1840	193	152.0	124
K 83.1-6	NU 501-2/30	2300	1090	273	1707	191	135.0	124
K 83.1-7	NU 801-2/45	2300	1) ¹⁾	273	1778	193	186.0	124
K 83.1-7	NU 501-2/37	2600	1) ¹⁾	273	2152	191	175.0	132
K 83.1-7	NU 611-2/82	2600	1) ¹⁾	273	2031	193	159.0	132

Accessories Wilo-EMU K 83.1

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 573	6 017 198	6 038 326
NU 501	–	6 038 573	6 017 198	6 038 326
NU 8..	–	6 038 575	6 020 350	6 020 349

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
				[mm]				
K 83.1-1	NU 60-2/23	6 043 924	6 043 126	835	580	691	–	60
K 83.1-1	NU 501-2/5	6 043 931	6 043 166	750	613	–	–	90
K 83.1-2	NU 60-2/32	6 043 924	6 043 126	835	640	831	–	140
K 83.1-2	NU 501-2/9	6 043 930	6 043 122	835	643	814	–	69
K 83.1-3	NU 60-2/40	6 043 929	6 043 193	1000	840	–	–	55
K 83.1-3	NU 501-2/15	6 043 930	6 043 122	851	700	971	–	150
K 83.1-4	NU 60-2/51	6 043 925	6 043 143	1105	910	1131	–	50
K 83.1-4	NU 501-2/18	6 043 928	6 043 190	1000	906	–	–	67
K 83.1-5	NU 60-2/61	6 043 925	6 043 143	1150	970	1291	–	105
K 83.1-5	NU 501-2/30	6 043 926	6 043 138	1150	970	1352	–	112
K 83.1-6	NU 610-2/74	6 043 927	6 043 158	1300	1030	1491	–	95
K 83.1-6	NU 501-2/30	6 043 926	6 043 138	1150	1030	1412	–	112
K 83.1-7	NU 801-2/45	–	6 043 146	1150	–	–	–	123
K 83.1-7	NU 501-2/37	–	6 043 169	1550	–	–	–	97
K 83.1-7	NU 611-2/82	–	6 043 149	1400	–	–	–	126

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 83.1...	DN 65	DN 65	–	10-16	10-16	–	8x18	145	185
	DN 65	DN 65	–	25-40	25-40	–	8x18	145	185
	DN 80	DN 80	DN 80	10-40	10-40	10	8x18	160	200
	–	DN 100	DN 100	–	10-16	10	8x18	180	220
	–	DN 100	–	–	25-40	–	8x22	190	235
	–	–	DN 125	–	–	10	8x18	210	250
	–	–	DN 150	–	–	10	8x22	240	285

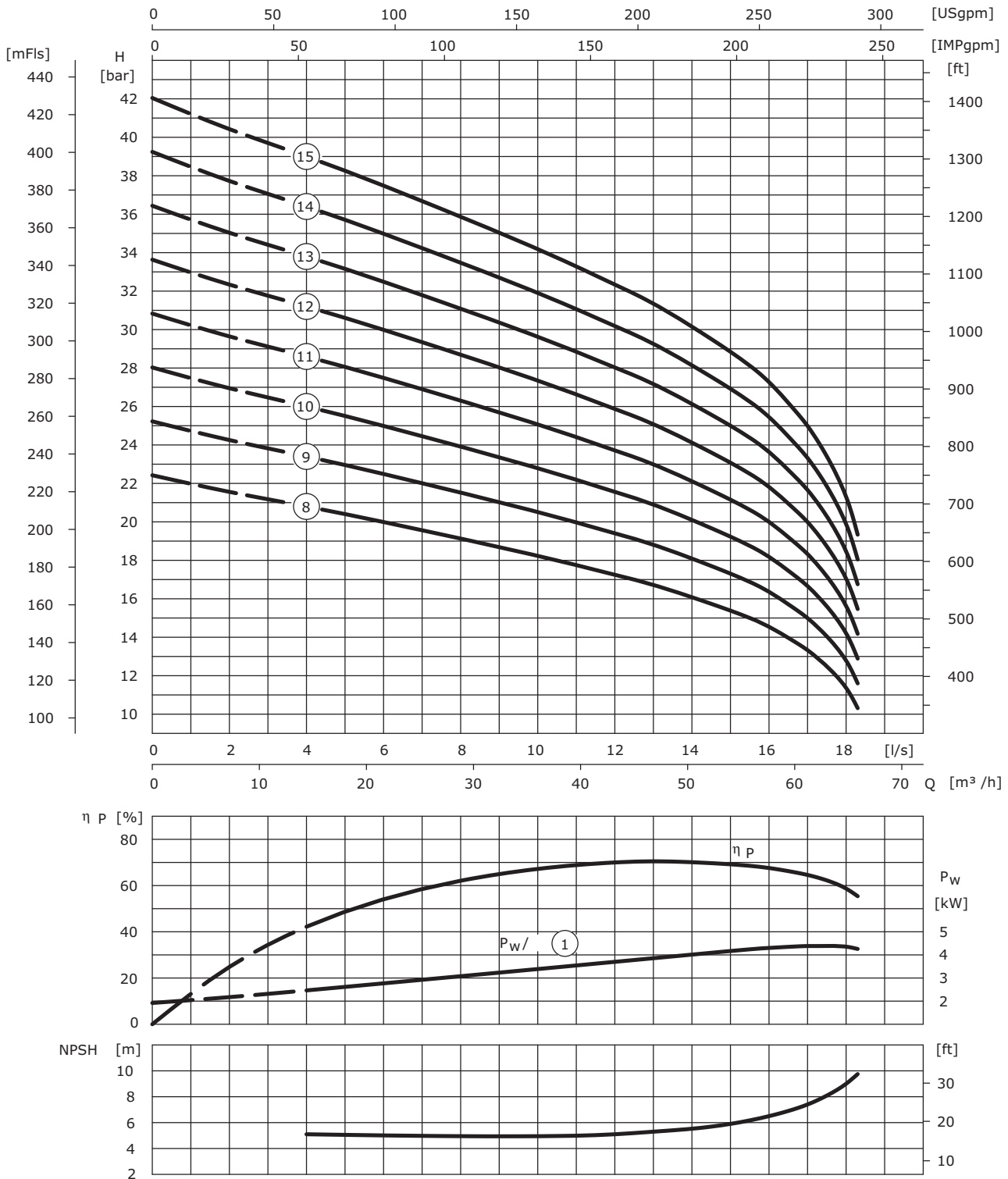
Pump without NRV, with NRV DN65, 80 = L+180mm, DN100 = L+160mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with flange connection DN65, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Pump curves Wilo-EMU K 83.1

Wilo-EMU K 83.1



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 83.1

Technical data

Wilo-EMU...	No.	Availability*	Motor type	Nominal power	Nominal current	Shaft power	Current for power requirement of the shaft	Inst.
				P ₂	I _N	P _W	I	-
				[kW]	[A]	[kW]	[A]	-
K 83.1-8	8	A	NU 801-2/45	37.00	74	37.30	74	V+H ¹⁾
K 83.1-8	8	A	NU 501-2/37	37.00	73	36.30	72	V+H ¹⁾
K 83.1-8	8	A	NU 611-2/90	37.00	77	35.20	74	V
K 83.1-9	9	A	NU 801-2/55	47.50	95	42	85	V+H ¹⁾
K 83.1-9	9	A	NU 501-2/45	45.00	93.30	41	83.50	V+H ¹⁾
K 83.1-10	10	A	NU 801-2/55	47.50	95	46.20	93	V
K 83.1-10	10	A	NU 501-2/45	45.00	93.30	45	93.30	V
K 83.1-11	11	A	NU 801-2/60	53.00	104	51	100	V
K 83.1-11	11	A	NU 701-2/55	55.00	108	51.50	98	V
K 83.1-12	12	A	NU 801-2/68	59.00	113	56.70	109	V
K 83.1-12	12	A	NU 701-2/55	55.00	108	55	108	V
K 83.1-13	13	A	NU 801-2/75	65.00	129	61	121	V
K 83.1-13	13	A	NU 701-2/75	75.00	145	62	122	V
K 83.1-14	14	A	NU 801-2/75	65.00	129	65	129	V
K 83.1-14	14	A	NU 701-2/75	75.00	145	66	128	V
K 83.1-15	15	A	NU 801-2/87	75.00	145	70.50	137	V
K 83.1-15	15	A	NU 701-2/75	75.00	145	70.50	136	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Connec- tion	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. Ø					
	[mm]	-	[bar]	[mm]		[kg]				
K 83.1...	DN 65	-	10-16	180	185	13.3	V+H	1	⁶⁾	⁶⁾
	DN 65	-	25-40	180	185	13.3	V+H	1	⁶⁾	⁶⁾
	DN 80	-	10-16	180	200	14.0	V+H	1	⁶⁾	⁶⁾
	DN 80	-	25-40	180	200	14.0	V+H	1	⁶⁾	⁶⁾
	DN 100	-	10-16	160	220	14.0	V+H	1	⁶⁾	⁶⁾
	DN 100	-	25-40	160	235	14.5	V+H	1	⁶⁾	⁶⁾
	R 3	I	10-25	180	182	10.0	V+H	1	⁶⁾	⁶⁾
	R 3	I	40	180	182	10.0	V+H	1	⁶⁾	⁶⁾
	R 4	E	10-25	180	182	10.0	V+H	1	⁶⁾	⁶⁾
	R 4	E	40	180	182	10.0	V+H	1	⁶⁾	⁶⁾

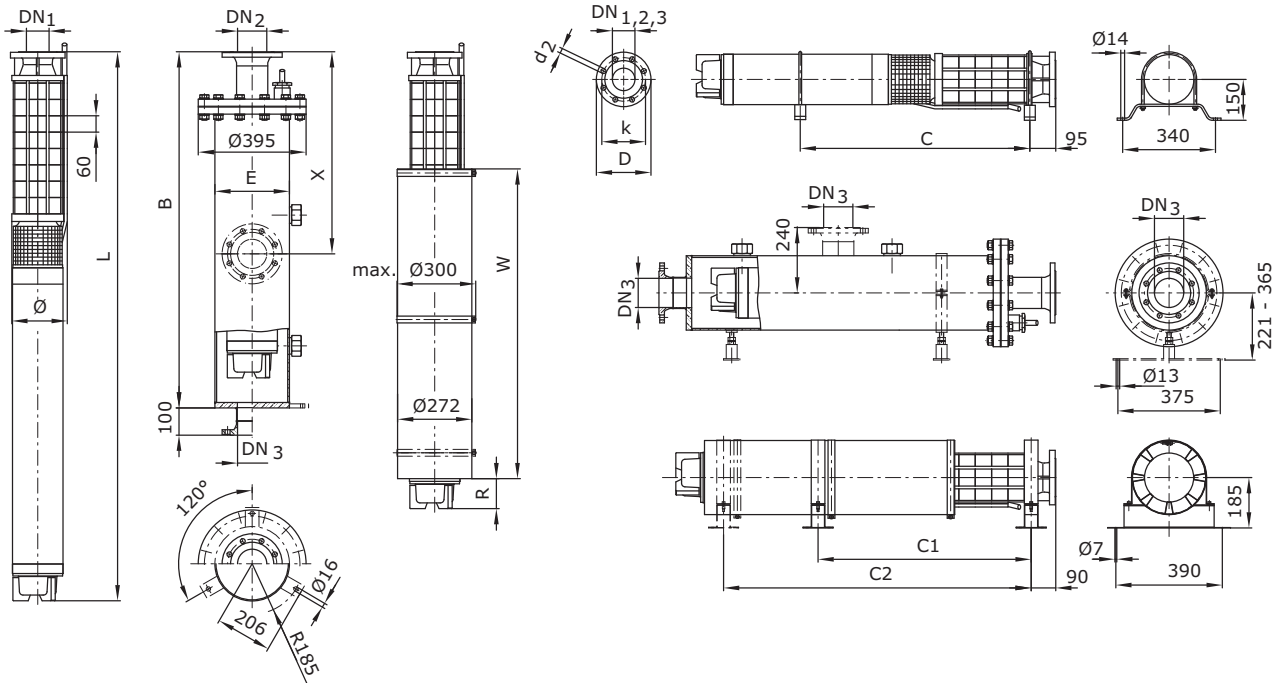
Pump without NRV, with NRV DN65, 80 = L+180mm, DN100 = L+160mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. Ø with flange connection DN65, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU K 83.1

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
K 83.1-8	NU 801-2/45	2300	1)	273	1838	193	191.0	124
K 83.1-8	NU 501-2/37	2600	1)	273	2212	191	180.0	132
K 83.1-8	NU 611-2/90	2600	-	273	2171	193	169.0	132
K 83.1-9	NU 801-2/55	2600	1)	273	1998	196	214.0	132
K 83.1-9	NU 501-2/45	2900	1)	273	2424	197	200.0	140
K 83.1-10	NU 801-2/55	2600	-	273	2058	196	219.0	132
K 83.1-10	NU 501-2/45	2900	-	273	2484	197	205.0	140
K 83.1-11	NU 801-2/60	2900	-	273	2288	207	245.0	140
K 83.1-11	NU 701-2/55	2900	-	273	2297	207	267.0	140
K 83.1-12	NU 801-2/68	2900	-	273	2428	207	264.0	140
K 83.1-12	NU 701-2/55	2900	-	273	2357	207	272.0	140
K 83.1-13	NU 801-2/75	1)	-	1)	2558	207	282.0	1)
K 83.1-13	NU 701-2/75	1)	-	1)	2608	207	315.0	1)
K 83.1-14	NU 801-2/75	1)	-	1)	2618	207	287.0	1)
K 83.1-14	NU 701-2/75	1)	-	1)	2668	207	320.0	1)
K 83.1-15	NU 801-2/87	1)	-	1)	2798	213	312.0	1)
K 83.1-15	NU 701-2/75	1)	-	1)	2728	207	325.0	1)

Accessories Wilo-EMU K 83.1

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 573	6 017 198	6 038 326
NU 501	–	6 038 573	6 017 198	6 038 326
NU 8..	–	6 038 575	6 020 350	6 020 349

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		–		[mm]				
K 83.1-8	NU 801-2/45	–	6 043 146	1150	–	–	–	123
K 83.1-8	NU 501-2/37	–	6 043 169	1550	–	–	–	97
K 83.1-8	NU 611-2/90	–	6 043 172	1550	–	–	–	56
K 83.1-9	NU 801-2/55	–	6 043 160	1300	–	–	–	73
K 83.1-9	NU 501-2/45	–	6 043 182	1732	–	–	–	67
K 83.1-10	NU 801-2/55	–	6 043 160	1300	–	–	–	73
K 83.1-10	NU 501-2/45	–	6 043 182	1732	–	–	–	67
K 83.1-11	NU 801-2/60	–	6 043 160	1300	–	–	–	123
K 83.1-11	NU 701-2/55	–	6 043 163	1300	–	–	–	132
K 83.1-12	NU 801-2/68	–	6 043 152	1400	–	–	–	103
K 83.1-12	NU 701-2/55	–	6 043 163	1300	–	–	–	132
K 83.1-13	NU 801-2/75	–	6 043 152	1423	–	–	–	150
K 83.1-13	NU 701-2/75	–	6 043 178	1550	–	–	–	73
K 83.1-14	NU 801-2/75	–	6 043 152	1423	–	–	–	150
K 83.1-14	NU 701-2/75	–	6 043 178	1550	–	–	–	73
K 83.1-15	NU 801-2/87	–	6 043 175	1550	–	–	–	143
K 83.1-15	NU 701-2/75	–	6 043 178	1550	–	–	–	73

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 83.1...	DN 65	DN 65	–	10-16	10-16	–	8x18	145	185
	DN 65	DN 65	–	25-40	25-40	–	8x18	145	185
	DN 80	DN 80	DN 80	10-40	10-40	10	8x18	160	200
	–	DN 100	DN 100	–	10-16	10	8x18	180	220
	–	DN 100	–	–	25-40	–	8x22	190	235
	–	–	DN 125	–	–	10	8x18	210	250
	–	–	DN 150	–	–	10	8x22	240	285

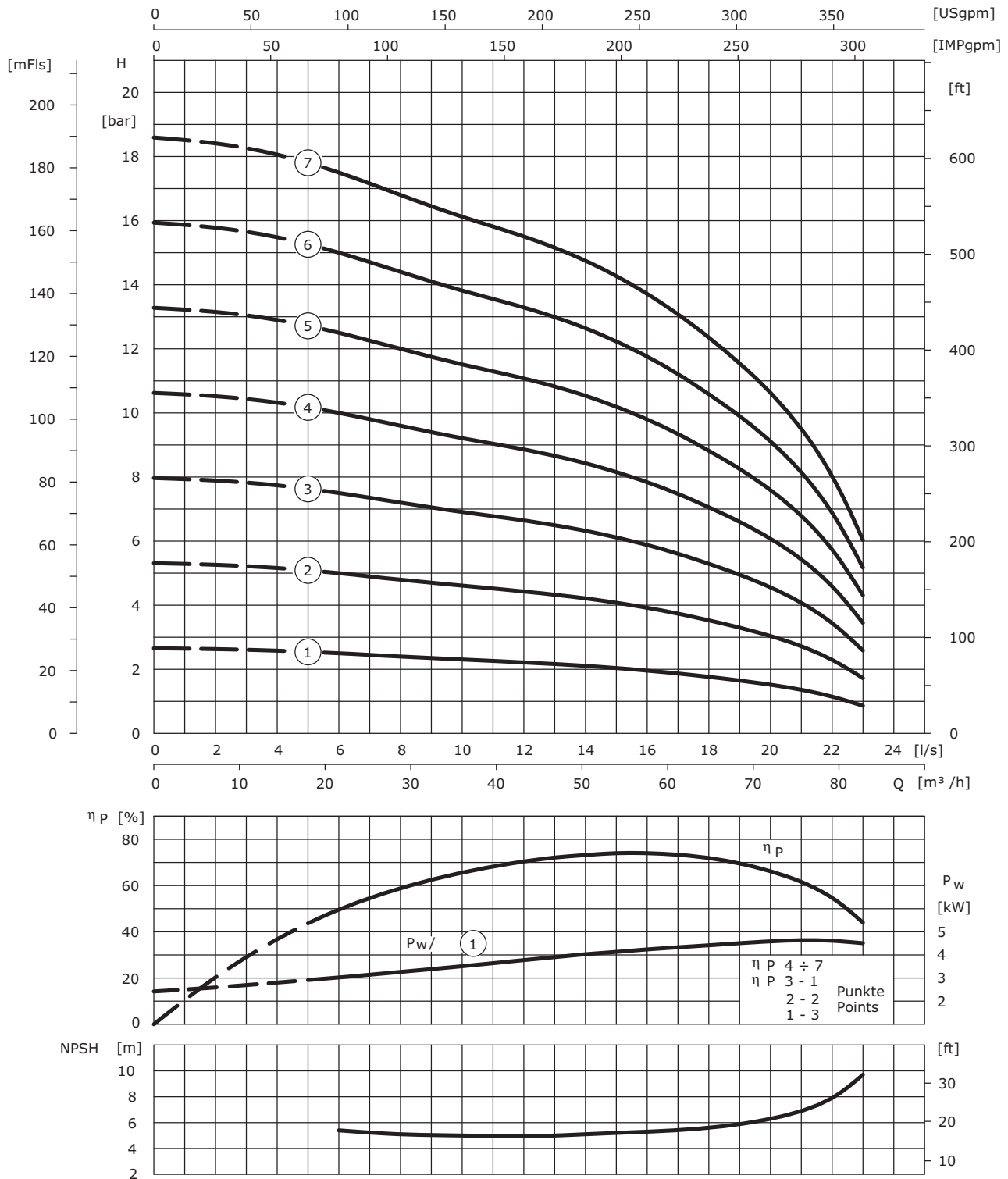
Pump without NRV, with NRV DN65, 80 = L+180mm, DN100 = L+160mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN65, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Pump curves Wilo-EMU K 84

Wilo-EMU K 84



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 84

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I	
				[kW]	[A]	[kW]	[A]	
K 84-1	1	A	NU 60-2/23	5.50	12.20	4.80	11	V+H
K 84-1	1	A	NU 501-2/5	5.50	12.50	4.50	10.80	V+H
K 84-2	2	A	NU 60-2/32	12.50	27.50	9.80	22	V+H
K 84-2	2	A	NU 501-2/11	11.00	23.30	9.80	21.50	V+H
K 84-3	3	A	NU 60-2/40	15.50	32.50	14.10	30	V+H
K 84-3	3	A	NU 501-2/15	15.00	31.30	14.30	30.50	V+H
K 84-4	4	A	NU 60-2/51	21.00	44.50	18.60	39.50	V+H
K 84-4	4	A	NU 501-2/22	22.00	45.30	19	39.50	V+H
K 84-5	5	A	NU 60-2/61	25.00	52	23.70	49.50	V+H
K 84-5	5	A	NU 501-2/30	30.00	63.50	24.20	52	V+H
K 84-6	6	A	NU 601-2/74	30.00	67	28.40	65	V+H
K 84-6	6	A	NU 501-2/30	30.00	63.50	28.40	60	V+H
K 84-7	7	A	NU 801-2/45	37.00	74	34.70	69	V+H ¹⁾
K 84-7	7	A	NU 501-2/37	37.00	73	33.60	67	V+H ¹⁾
K 84-7	7	A	NU 611-2/82	34.00	71	32.60	68	V+H ¹⁾

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN_1	PN_1						L	max. ϕ
				[mm]	[bar]						[mm]	[mm]
K 84...	DN 65	-	10-16	180	185	13.3	V+H	1	6)	6)		
	DN 65	-	25-40	180	185	13.3	V+H	1	6)	6)		
	DN 80	-	10-16	180	200	14.0	V+H	1	6)	6)		
	DN 80	-	25-40	180	200	14.0	V+H	1	6)	6)		
	DN 100	-	10-16	160	220	14.0	V+H	1	6)	6)		
	DN 100	-	25-40	160	235	14.5	V+H	1	6)	6)		
	R 3	I	10-25	180	182	10.0	V+H	1	6)	6)		
	R 3	I	40	180	182	10.0	V+H	1	6)	6)		
	R 4	E	10-25	180	182	10.0	V+H	1	6)	6)		
	R 4	E	40	180	182	10.0	V+H	1	6)	6)		

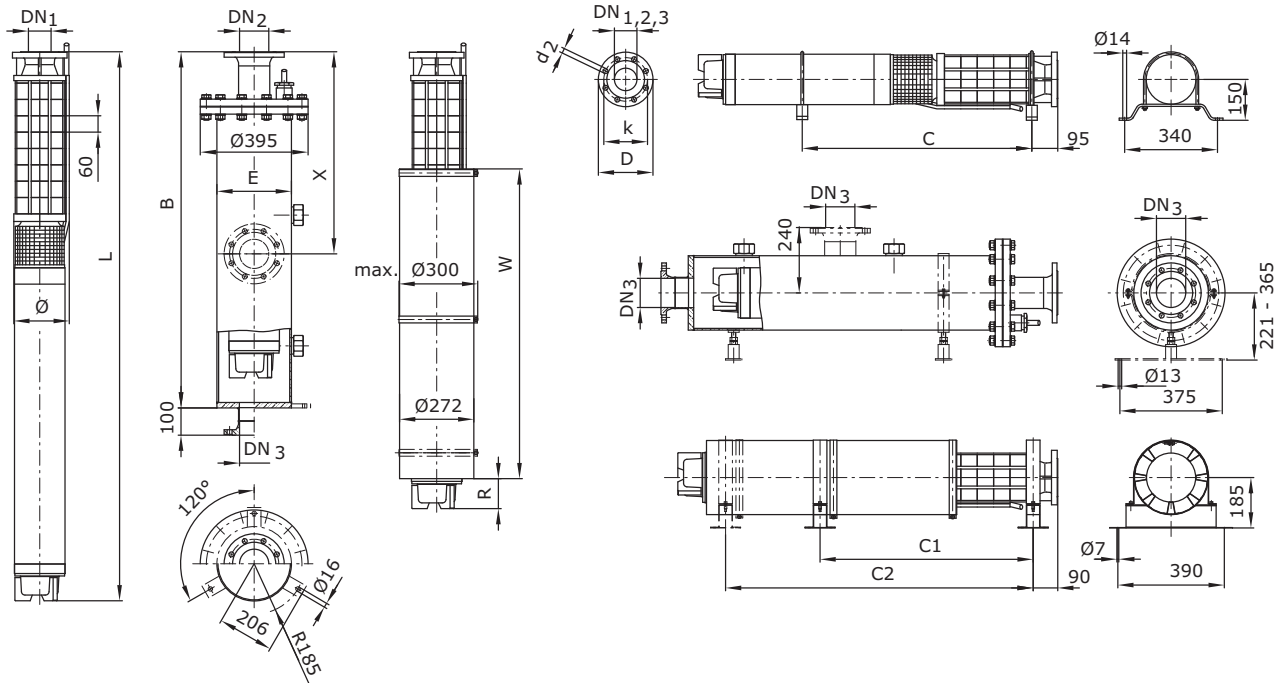
Pump without NRV, with NRV DN65, 80 = L+180mm, DN100 = L+160mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN65, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU K 84

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
K 84-1	NU 60-2/23	1400	620	273	1040	191	73.0	100
K 84-1	NU 501-2/5	1400	590	273	985	191	67.0	100
K 84-2	NU 60-2/32	1700	720	273	1180	191	86.0	108
K 84-2	NU 501-2/11	1700	690	273	1141	191	82.0	108
K 84-3	NU 60-2/40	1700	820	273	1320	191	99.0	108
K 84-3	NU 501-2/15	1700	790	273	1266	191	93.0	108
K 84-4	NU 60-2/51	2000	930	273	1480	192	114.0	116
K 84-4	NU 501-2/22	2000	910	273	1457	191	111.0	116
K 84-5	NU 60-2/61	2000	1040	273	1640	192	128.0	116
K 84-5	NU 501-2/30	2000	1030	273	1647	191	129.0	116
K 84-6	NU 601-2/74	2300	1160	273	1840	193	152.0	124
K 84-6	NU 501-2/30	2300	1090	273	1707	191	135.0	124
K 84-7	NU 801-2/45	2300	1) ¹⁾	273	1778	193	186.0	124
K 84-7	NU 501-2/37	2600	1) ¹⁾	273	2152	191	175.0	132
K 84-7	NU 611-2/82	2600	1) ¹⁾	273	2031	193	159.0	132

Accessories Wilo-EMU K 84

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 573	6 017 198	6 038 326
NU 501	–	6 038 573	6 017 198	6 038 326
NU 8..	–	6 038 575	6 020 350	6 020 349

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
				[mm]				
K 84-1	NU 60-2/23	6 043 924	6 043 126	835	580	691	–	60
K 84-1	NU 501-2/5	6 043 931	6 043 166	750	613	–	–	90
K 84-2	NU 60-2/32	6 043 924	6 043 126	835	640	831	–	140
K 84-2	NU 501-2/11	6 043 930	6 043 122	835	640	846	–	101
K 84-3	NU 60-2/40	6 043 929	6 043 193	1000	840	–	–	55
K 84-3	NU 501-2/15	6 043 930	6 043 122	855	700	971	–	146
K 84-4	NU 60-2/51	6 043 925	6 043 143	1105	910	1131	–	50
K 84-4	NU 501-2/22	6 043 928	6 043 190	1000	939	–	–	132
K 84-5	NU 60-2/61	6 043 925	6 043 143	1150	970	1291	–	105
K 84-5	NU 501-2/30	6 043 926	6 043 138	1150	970	1352	–	112
K 84-6	NU 601-2/74	6 043 927	6 043 158	1300	1030	1491	–	95
K 84-6	NU 501-2/30	6 043 926	6 043 138	1150	1030	1412	–	112
K 84-7	NU 801-2/45	–	6 043 146	1150	–	–	–	123
K 84-7	NU 501-2/37	–	6 043 169	1550	–	–	–	97
K 84-7	NU 611-2/82	–	6 043 149	1400	–	–	–	126

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 84...	DN 65	DN 65	–	10-16	10-16	–	8x18	145	185
	DN 65	DN 65	–	25-40	25-40	–	8x18	145	185
	DN 80	DN 80	DN 80	10-40	10-40	10	8x18	160	200
	–	DN 100	DN 100	–	10-16	10	8x18	180	220
	–	DN 100	–	–	25-40	–	8x22	190	235
	–	–	DN 125	–	–	10	8x18	210	250
	–	–	DN 150	–	–	10	8x22	240	285

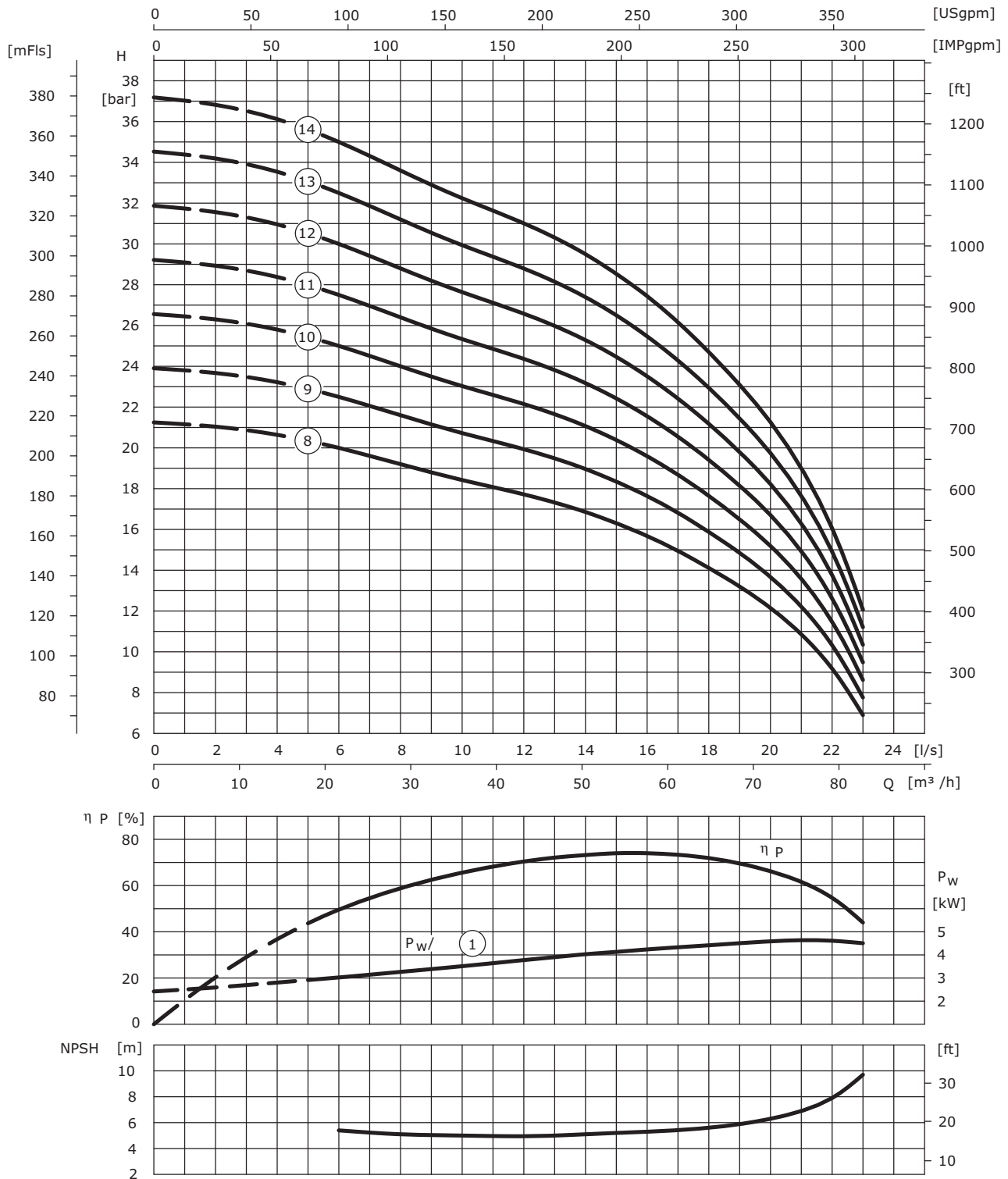
Pump without NRV, with NRV DN65, 80 = L+180mm, DN100 = L+160mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN65, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Pump curves Wilo-EMU K 84

Wilo-EMU K 84



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 84

Technical data								
Wilo-EMU...	No.	Availability*	Motor type	Nominal power	Nominal current	Shaft power	Current for power requirement of the shaft	Inst.
				P_2	I_N	P_w	I	-
				[kW]	[A]	[kW]	[A]	-
K 84-8	8	A	NU 801-2/55	47.50	95	40	81	V+H ¹⁾
K 84-8	8	A	NU 501-2/45	45.00	93.30	39	80	V+H ¹⁾
K 84-8	8	A	NU 611-2/90	37.00	77	36.80	77	V
K 84-9	9	A	NU 801-2/55	47.50	95	44	88	V+H ¹⁾
K 84-9	9	A	NU 501-2/45	45.00	93.30	43	87	V+H ¹⁾
K 84-10	10	A	NU 801-2/60	53.00	104	49.50	97	V
K 84-10	10	A	NU 701-2/55	55.00	108	49.50	95	V
K 84-11	11	A	NU 801-2/68	59.00	113	55	106	V
K 84-11	11	A	NU 701-2/55	55.00	108	55	108	V
K 84-12	12	A	NU 801-2/68	59.00	113	59	113	V
K 84-12	12	A	NU 701-2/75	75.00	145	60	120	V
K 84-13	13	A	NU 801-2/75	65.00	129	64	127	V
K 84-13	13	A	NU 701-2/75	75.00	145	65	127	V
K 84-14	14	A	NU 801-2/87	75.00	145	70	136	V
K 84-14	14	A	NU 701-2/75	75.00	145	70	135	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves										
Wilo-EMU...	Connection	Thread internal/external	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. ϕ					
	[mm]	-	[bar]	[mm]		[kg]				
K 84...	DN 65	-	10-16	180	185	13.3	V+H	1	6)	6)
	DN 65	-	25-40	180	185	13.3	V+H	1	6)	6)
	DN 80	-	10-16	180	200	14.0	V+H	1	6)	6)
	DN 80	-	25-40	180	200	14.0	V+H	1	6)	6)
	DN 100	-	10-16	160	220	14.0	V+H	1	6)	6)
	DN 100	-	25-40	160	235	14.5	V+H	1	6)	6)
	R 3	I	10-25	180	182	10.0	V+H	1	6)	6)
	R 3	I	40	180	182	10.0	V+H	1	6)	6)
R 4	E	10-25	180	182	10.0	V+H	1	6)	6)	
R 4	E	40	180	182	10.0	V+H	1	6)	6)	

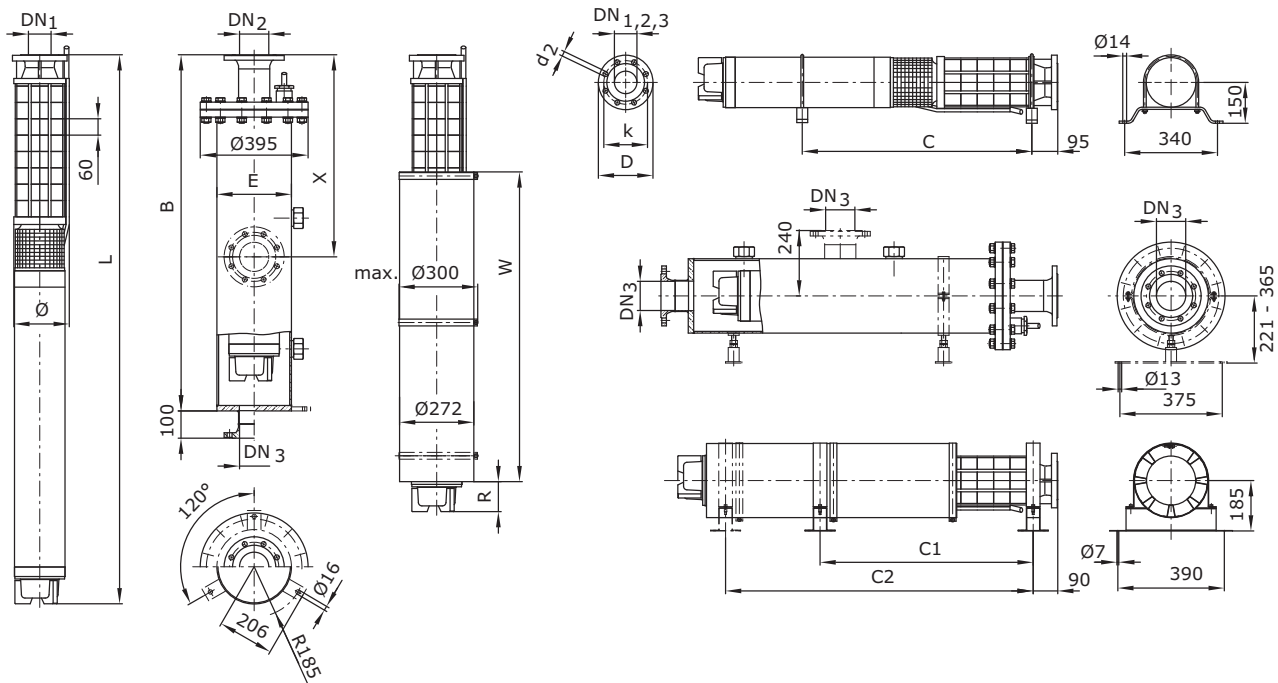
Pump without NRV, with NRV DN65, 80 = L+180mm, DN100 = L+160mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN65, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU K 84

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]						[kg]
K 84-8	NU 801-2/55	2300	1)	273	1938	196	208.0	124
K 84-8	NU 501-2/45	2900	1)	273	2364	197	200.0	140
K 84-8	NU 611-2/90	2600	-	273	2171	193	169.0	132
K 84-9	NU 801-2/55	2600	1)	273	1998	196	213.0	132
K 84-9	NU 501-2/45	2900	1)	273	2407	197	200.0	140
K 84-10	NU 801-2/60	2600	-	273	2108	207	222.0	132
K 84-10	NU 701-2/55	2600	-	273	2117	207	244.0	132
K 84-11	NU 801-2/68	2900	-	273	2368	207	254.0	140
K 84-11	NU 701-2/55	2900	-	273	2297	207	262.0	140
K 84-12	NU 801-2/68	2900	-	273	2428	207	263.0	140
K 84-12	NU 701-2/75	2900	-	273	2548	207	305.0	140
K 84-13	NU 801-2/75	1)	-	1)	2558	207	277.0	1)
K 84-13	NU 701-2/75	1)	-	1)	2608	207	310.0	1)
K 84-14	NU 801-2/87	1)	-	1)	2738	213	302.0	1)
K 84-14	NU 701-2/75	1)	-	1)	2668	207	315.0	1)

Accessories Wilo-EMU K 84

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 573	6 017 198	6 038 326
NU 501	–	6 038 573	6 017 198	6 038 326
NU 8..	–	6 038 575	6 020 350	6 020 349

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
	–	–			[mm]			
K 84-8	NU 801-2/55	–	6 043 160	1300	–	–	–	73
K 84-8	NU 501-2/45	–	6 043 182	1732	–	–	–	67
K 84-8	NU 611-2/90	–	6 043 172	1550	–	–	–	56
K 84-9	NU 801-2/55	–	6 043 160	1300	–	–	–	73
K 84-9	NU 501-2/45	–	6 043 182	1732	–	–	–	67
K 84-10	NU 801-2/60	–	6 043 160	1300	–	–	–	123
K 84-10	NU 701-2/55	–	6 043 163	1300	–	–	–	132
K 84-11	NU 801-2/68	–	6 043 152	1400	–	–	–	103
K 84-11	NU 701-2/55	–	6 043 163	1300	–	–	–	132
K 84-12	NU 801-2/68	–	6 043 152	1400	–	–	–	103
K 84-12	NU 701-2/75	–	6 043 178	1550	–	–	–	73
K 84-13	NU 801-2/75	–	6 043 152	1423	–	–	–	150
K 84-13	NU 701-2/75	–	6 043 178	1550	–	–	–	73
K 84-14	NU 801-2/87	–	6 043 175	1550	–	–	–	143
K 84-14	NU 701-2/75	–	6 043 178	1550	–	–	–	73

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 84...	DN 65	DN 65	–	10-16	10-16	–	8x18	145	185
	DN 65	DN 65	–	25-40	25-40	–	8x18	145	185
	DN 80	DN 80	DN 80	10-40	10-40	10	8x18	160	200
	–	DN 100	DN 100	–	10-16	10	8x18	180	220
	–	DN 100	–	–	25-40	–	8x22	190	235
	–	–	DN 125	–	–	10	8x18	210	250
	–	–	DN 150	–	–	10	8x22	240	285

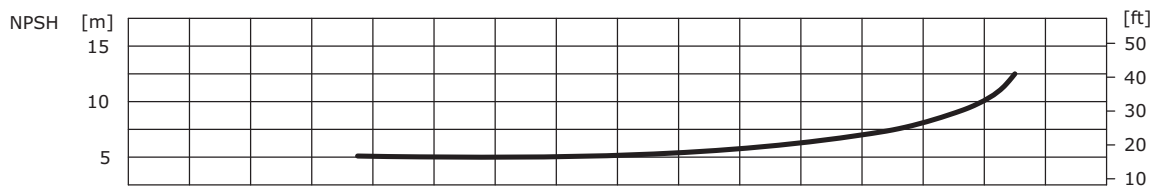
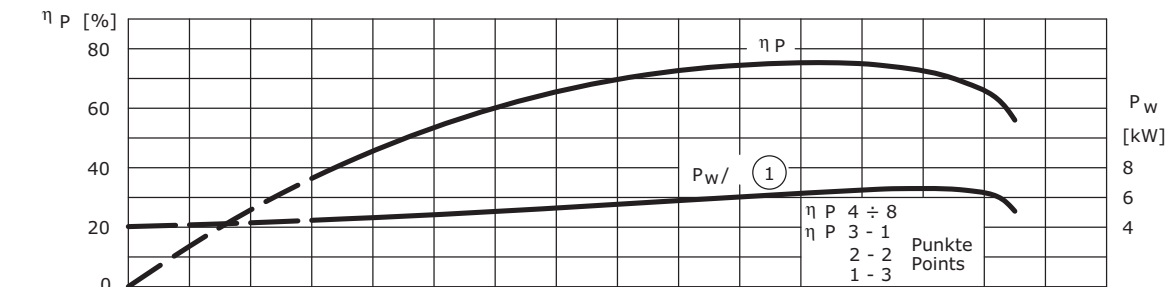
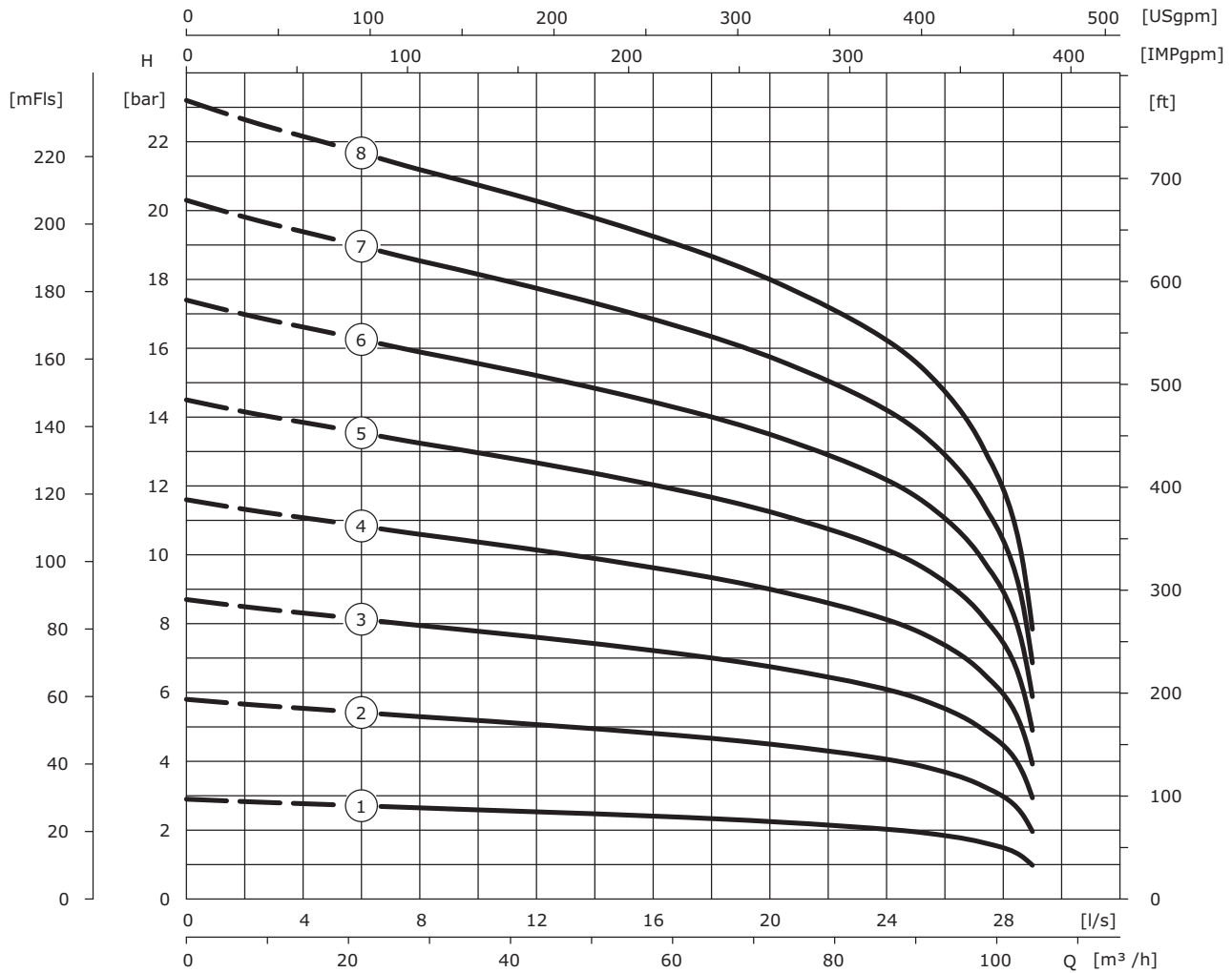
Pump without NRV, with NRV DN65, 80 = L+180mm, DN100 = L+160mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN65, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilо-EMU 8" series

Pump curves Wilо-EMU K 85

Wilо-EMU K 85



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 85

Technical data

Wilo-EMU...	No.	Availability*	Motor type	Nominal power	Nominal current	Shaft power	Current for power requirement of the shaft	Inst.
				P_2 [kW]	I_N [A]	P_W [kW]	I [A]	
K 85-1	1	A	NU 60-2/24	9.00	19.80	7	17.20	V+H
K 85-1	1	A	NU 501-2/7	7.50	16	7	15.10	V+H
K 85-2	2	A	NU 60-2/40	15.50	32.50	13.80	29.50	V+H
K 85-2	2	A	NU 501-2/15	15.00	31.30	14	30	V+H
K 85-3	3	A	NU 60-2/51	21.00	44.50	20.10	42.50	V+H
K 85-3	3	A	NU 501-2/22	22.00	45.30	20.60	42.50	V+H
K 85-4	4	A	NU 601-2/74	30.00	67	27.30	63	V+H
K 85-4	4	A	NU 501-2/30	30.00	63.50	27.90	59	V+H
K 85-5	5	A	NU 801-2/45	37.00	74	35.70	71	V+H ¹⁾
K 85-5	5	A	NU 501-2/37	37.00	73	35	70	V+H ¹⁾
K 85-5	5	A	NU 611-2/82	34.00	71	33.10	69	V+H ¹⁾
K 85-6	6	A	NU 801-2/55	47.50	95	43	86	V
K 85-6	6	A	NU 501-2/45	45.00	93.30	42	85	V
K 85-7	7	A	NU 801-2/60	53.00	104	50	98	V
K 85-7	7	A	NU 701-2/55	55.00	108	50.40	97	V
K 85-8	8	A	NU 801-2/68	59.00	113	58	111	V
K 85-8	8	A	NU 701-2/75	75.00	145	58	118	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Connec- tion	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN_1	–	PN_1	L	max. ϕ			–		
	[mm]	–	[bar]	[mm]		[kg]		–		
K 85...	DN 100	–	10-16	70	220	11.0	V+H	1	⁶⁾	⁶⁾
	DN 100	–	25-40	70	235	12.0	V+H	1	⁶⁾	⁶⁾
	DN 125	–	10-16	70	250	12.0	V+H	1	⁶⁾	⁶⁾
	DN 150	–	10-16	70	285	14.0	V+H	1	⁶⁾	⁶⁾
	DN 150	–	25-40	70	300	14.0	V+H	1	⁶⁾	⁶⁾
	R 5	I	10-25	70	182	9.0	V+H	1	⁶⁾	⁶⁾
	R 5	I	40	70	182	9.0	V+H	1	⁶⁾	⁶⁾
	R 6	E	10-25	70	182	9.0	V+H	1	⁶⁾	⁶⁾
R 6	E	40	70	182	9.0	V+H	1	⁶⁾	⁶⁾	

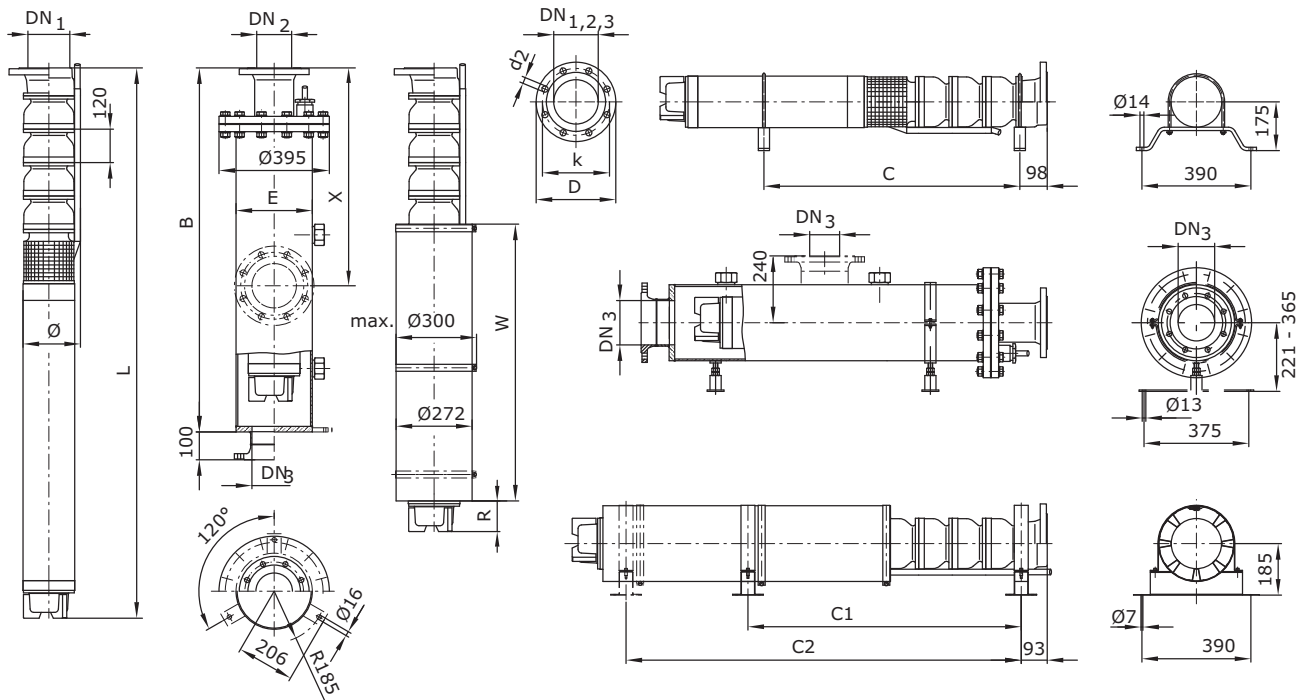
Pump without NRV, with NRV R5, R6, DN100, DN125, DN150 = L+70mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU K 85

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
K 85-1	NU 60-2/24	1400	660	273	1085	192	77.0	100
K 85-1	NU 501-2/7	1400	640	273	1061	192	75.0	100
K 85-2	NU 60-2/40	1700	860	273	1365	192	103.0	108
K 85-2	NU 501-2/15	1700	830	273	1311	192	97.0	108
K 85-3	NU 60-2/51	2000	1030	273	1585	193	123.0	116
K 85-3	NU 501-2/22	2000	1010	273	1562	192	120.0	116
K 85-4	NU 601-2/74	2300	1270	273	1945	195	161.0	124
K 85-4	NU 501-2/30	2300	1200	273	1812	192	144.0	124
K 85-5	NU 801-2/45	2300	1) ¹⁾	273	1943	195	201.0	124
K 85-5	NU 501-2/37	2600	1) ¹⁾	273	2317	192	190.0	132
K 85-5	NU 611-2/82	2600	1) ¹⁾	273	2196	195	174.0	132
K 85-6	NU 801-2/55	2600	-	273	2163	197	229.0	132
K 85-6	NU 501-2/45	2900	-	273	2589	197	215.0	140
K 85-7	NU 801-2/60	2600	-	273	2333	200	247.0	132
K 85-7	NU 701-2/55	2600	-	273	2342	203	269.0	132
K 85-8	NU 801-2/68	2900	-	273	2533	200	271.0	140
K 85-8	NU 701-2/75	1) ¹⁾	-	1) ¹⁾	2653	203	317.0	1) ¹⁾

Accessories Wilo-EMU K 85

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 576	6 017 199	6 035 547
NU 501	–	6 038 576	6 017 199	6 035 547
NU 8...	–	6 038 577	6 017 195	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
	–	–			[mm]			
K 85-1	NU 60-2/24	6 043 202	6 043 127	835	592	733	–	90
K 85-1	NU 501-2/7	6 043 198	6 043 123	835	592	763	–	66
K 85-2	NU 60-2/40	6 043 245	6 043 194	1000	882	–	–	85
K 85-2	NU 501-2/15	6 043 204	6 043 129	985	862	1013	–	46
K 85-3	NU 60-2/51	6 043 215	6 043 144	1135	982	1233	–	50
K 85-3	NU 501-2/22	6 043 211	6 043 140	1112	982	1264	–	50
K 85-4	NU 601-2/74	6 043 225	6 043 159	1300	1102	1593	–	125
K 85-4	NU 501-2/30	6 043 211	6 043 140	1150	1102	1514	–	142
K 85-5	NU 801-2/45	–	6 043 147	1153	–	–	–	150
K 85-5	NU 501-2/37	–	6 043 170	1550	–	–	–	127
K 85-5	NU 611-2/82	–	6 043 150	1420	–	–	–	136
K 85-6	NU 801-2/55	–	6 043 161	1300	–	–	–	103
K 85-6	NU 501-2/45	–	6 043 183	1762	–	–	–	67
K 85-7	NU 801-2/60	–	6 043 153	1400	–	–	–	53
K 85-7	NU 701-2/55	–	6 043 155	1400	–	–	–	62
K 85-8	NU 801-2/68	–	6 043 153	1400	–	–	–	133
K 85-8	NU 701-2/75	–	6 043 179	1550	–	–	–	103

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 85...	DN 100	DN 100	–	10-16	10-16	–	8x18	180	220
	DN 100	DN 100	–	25	25	–	8x22	190	235
	DN 100 RV	–	–	40	–	–	8x22	190	235
	DN 125	DN 125	DN 125	10-16	10-16	10	8x18	210	250
	DN 150	DN 150	DN 150	10-16	10-16	10	8x22	240	285
	DN 150 (RV)	DN 150	–	25-40	25-40	–	8x26	250	300
	R 5 I	–	–	10-40	–	–	–	–	–
R 6 A (RV)	–	–	10-40	–	–	–	–	–	

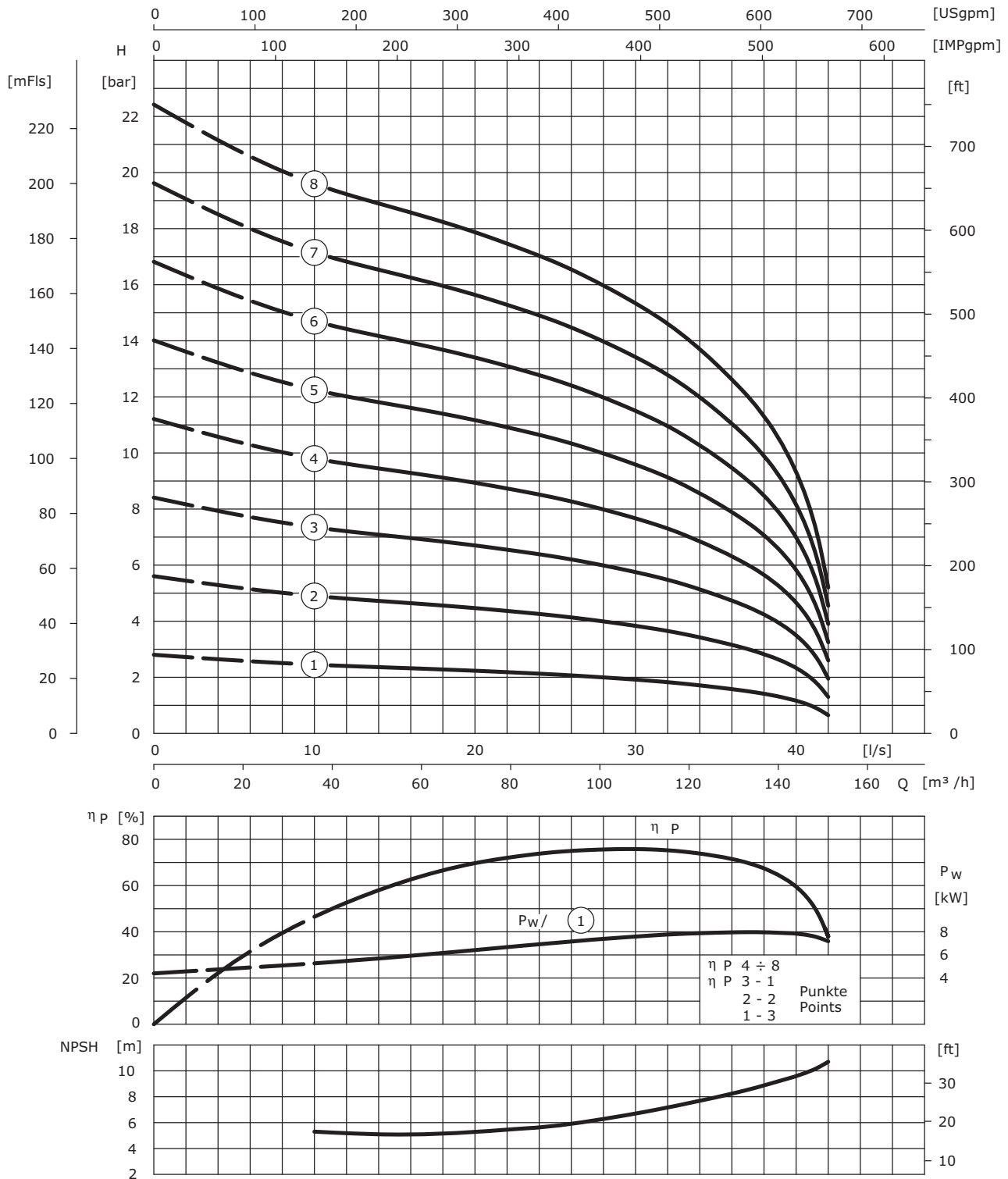
Pump without NRV, with NRV R5, R6, DN100, DN125, DN150 = L+70mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Pump curves Wilo-EMU K 86

Wilo-EMU K 86



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 86

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _W	I	
				[kW]	[A]	[kW]	[A]	
K 86-1	1	A	NU 60-2/24	9.00	19.80	8.20	18.30	V+H
K 86-1	1	A	NU 501-2/9	9.30	20.70	8.50	19.40	V+H
K 86-2	2	A	NU 60-2/51	21.00	44.50	16.90	36.50	V+H
K 86-2	2	A	NU 501-2/18	18.00	38.50	16.50	35	V+H
K 86-3	3	A	NU 601-2/61	25.00	52	24.20	51	V+H
K 86-3	3	A	NU 501-2/30	30.00	63.50	25.20	54	V+H
K 86-4	4	A	NU 801-2/45	37.00	74	34	68	V+H
K 86-4	4	A	NU 501-2/37	37.00	73	33.60	67	V+H
K 86-4	4	A	NU 611-2/82	34.00	71	32	67	V+H
K 86-5	5	A	NU 801-2/55	47.50	95	42.50	85	V
K 86-5	5	A	NU 501-2/45	45.00	93.30	41.50	84	V
K 86-6	6	A	NU 801-2/60	53.00	104	51	100	V
K 86-6	6	A	NU 701-2/55	55.00	108	51.50	98	V
K 86-7	7	A	NU 801-2/68	59.00	113	58.80	113	V
K 86-7	7	A	NU 701-2/75	75.00	145	60.90	121	V
K 86-8	8	A	NU 801-2/87	75.00	145	68.30	133	V
K 86-8	8	A	NU 701-2/75	75.00	145	68.30	132	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	–	PN ₁	L	max. ø	–	–	–	–	–
	[mm]	–	[bar]	[mm]		[kg]	–	–	–	–
K 86...	DN 100	–	10-16	70	220	11.0	V+H	1	⁶⁾	⁶⁾
	DN 100	–	25-40	70	235	12.0	V+H	1	⁶⁾	⁶⁾
	DN 125	–	10-16	70	250	12.0	V+H	1	⁶⁾	⁶⁾
	DN 150	–	10-16	70	285	14.0	V+H	1	⁶⁾	⁶⁾
	DN 150	–	25-40	70	300	14.0	V+H	1	⁶⁾	⁶⁾
	R 5	I	10-25	70	182	9.0	V+H	1	⁶⁾	⁶⁾
	R 5	I	40	70	182	9.0	V+H	1	⁶⁾	⁶⁾
	R 6	E	10-25	70	182	9.0	V+H	1	⁶⁾	⁶⁾
R 6	E	40	70	182	9.0	V+H	1	⁶⁾	⁶⁾	

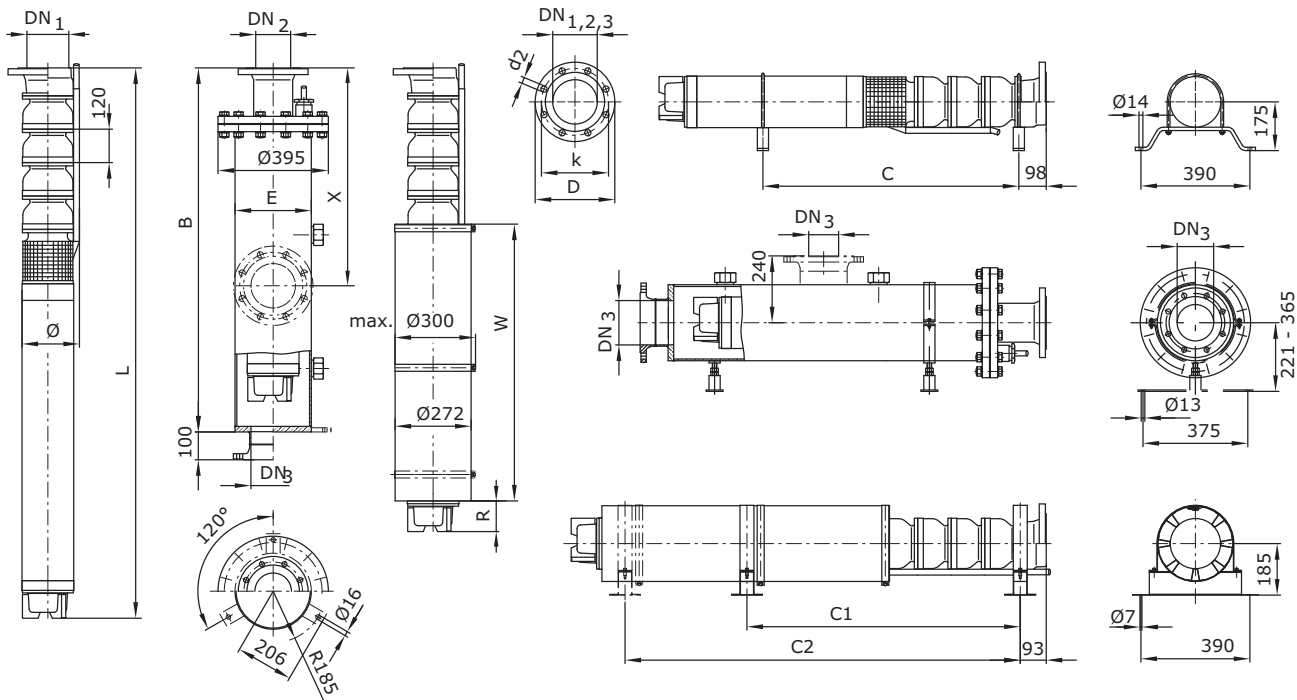
Pump without NRV, with NRV R5, R6, DN100, DN125, DN150 = L+70mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. ø with thread con-
nection, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU K 86

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
K 86-1	NU 60-2/24	1400	660	273	1085	192	77.0	100
K 86-1	NU 501-2/9	1400	660	273	1094	192	78.0	100
K 86-2	NU 60-2/51	2000	910	273	1465	192	114.0	116
K 86-2	NU 501-2/18	1700	860	273	1377	192	103.0	108
K 86-3	NU 601-2/61	2000	1080	273	1685	195	133.0	116
K 86-3	NU 501-2/30	2000	1080	273	1692	192	135.0	116
K 86-4	NU 801-2/45	2300	1200	273	1823	195	191.0	124
K 86-4	NU 501-2/37	2600	1380	273	2197	192	181.0	132
K 86-4	NU 611-2/82	2600	1340	273	2076	195	164.0	132
K 86-5	NU 801-2/55	2300	-	273	2043	197	220.0	124
K 86-5	NU 501-2/45	2900	-	273	2469	197	206.0	140
K 86-6	NU 801-2/60	2600	-	273	2213	200	238.0	132
K 86-6	NU 701-2/55	2600	-	273	2222	203	260.0	132
K 86-7	NU 801-2/68	2900	-	273	2413	200	263.0	140
K 86-7	NU 701-2/75	2900	-	273	2533	203	309.0	140
K 86-8	NU 801-2/87	1)	-	1)	2723	205	306.0	1)
K 86-8	NU 701-2/75	1)	-	1)	2653	203	319.0	1)

Accessories Wilo-EMU K 86

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 576	6 017 199	6 035 547
NU 501	–	6 038 576	6 017 199	6 035 547
NU 8...	–	6 038 577	6 017 195	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
	–	–			[mm]			
K 86-1	NU 60-2/24	6 043 202	6 043 127	835	592	733	–	90
K 86-1	NU 501-2/9	6 043 198	6 043 123	835	592	796	–	99
K 86-2	NU 60-2/51	6 043 215	6 043 144	1135	862	1113	–	50
K 86-2	NU 501-2/18	6 043 204	6 043 129	985	862	1079	–	112
K 86-3	NU 601-2/61	6 043 215	6 043 144	1150	982	1333	–	135
K 86-3	NU 501-2/30	6 043 211	6 043 140	1150	982	1394	–	142
K 86-4	NU 801-2/45	6 043 219	6 043 147	1153	1102	1555	–	150
K 86-4	NU 501-2/37	6 043 234	6 043 170	1550	1352	1899	–	127
K 86-4	NU 611-2/82	6 043 288	6 043 150	1420	1352	1658	–	136
K 86-5	NU 801-2/55	–	6 043 161	1300	–	–	–	103
K 86-5	NU 501-2/45	–	6 043 183	1762	–	–	–	67
K 86-6	NU 801-2/60	–	6 043 153	1400	–	–	–	53
K 86-6	NU 701-2/55	–	6 043 155	1400	–	–	–	62
K 86-7	NU 801-2/68	–	6 043 153	1400	–	–	–	133
K 86-7	NU 701-2/75	–	6 043 179	1550	–	–	–	103
K 86-8	NU 801-2/87	–	6 043 176	1573	–	–	–	150
K 86-8	NU 701-2/75	–	6 043 179	1550	–	–	–	103

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 86...	DN 100	DN 100	–	10-16	10-16	–	8x18	180	220
	DN 100	DN 100	–	25	25	–	8x22	190	235
	DN 100 RV	–	–	40	–	–	8x22	190	235
	DN 125	DN 125	DN 125	10-16	10-16	10	8x18	210	250
	DN 150	DN 150	DN 150	10-16	10-16	10	8x22	240	285
	DN 150 (RV)	DN 150	–	25-40	25-40	–	8x26	250	300
	R 5 I	–	–	10-40	–	–	–	–	–
R 6 A (RV)	–	–	10-40	–	–	–	–	–	

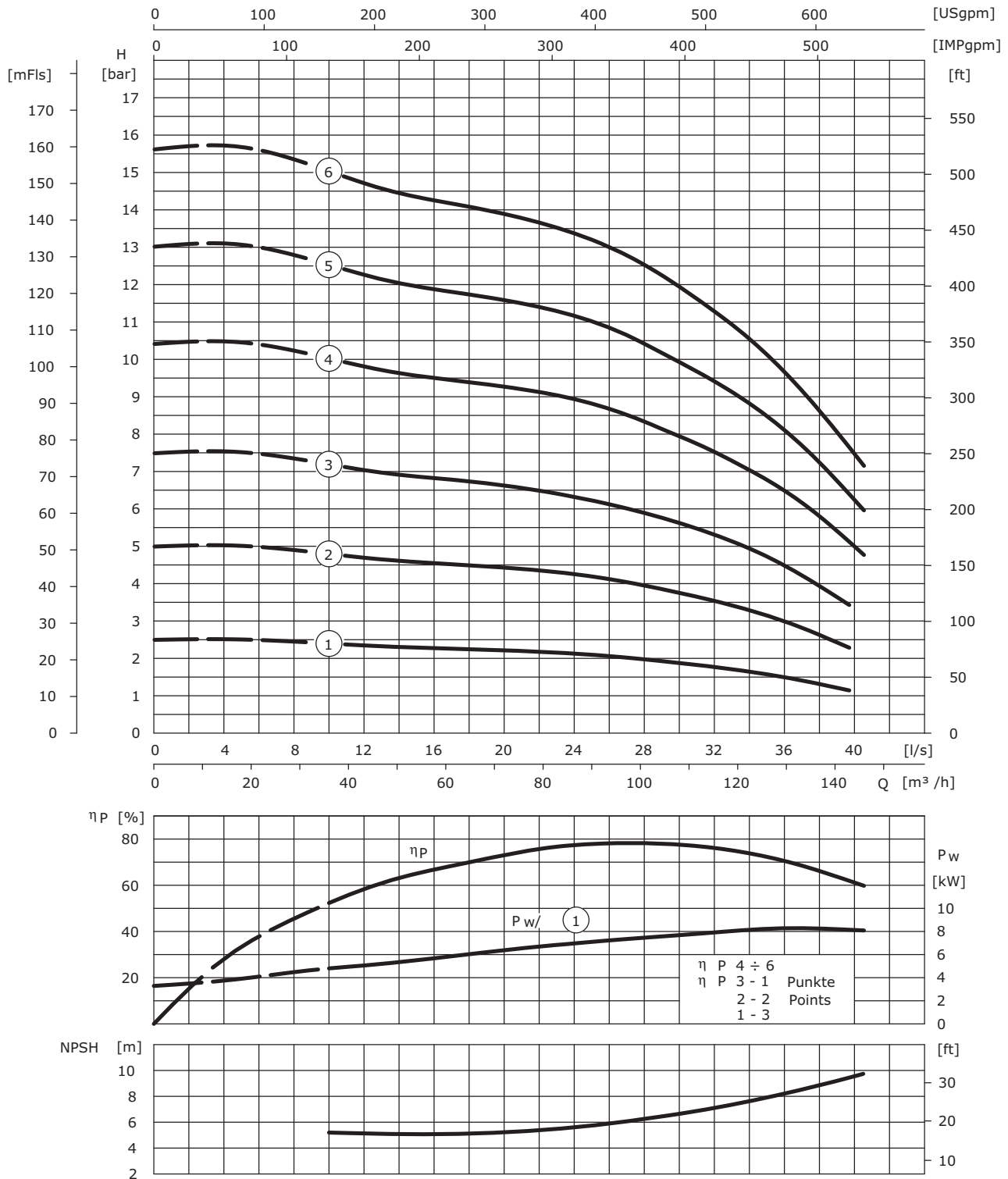
Pump without NRV, with NRV R5, R6, DN100, DN125, DN150 = L+70mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilо-EMU 8" series

Pump curves Wilо-EMU NK 86

Wilо-EMU NK 86



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 86

Technical data

Wilo-EMU...	No.	Availability*	Motor type	Nominal power	Nominal current	Shaft power	Current for power requirement of the shaft	Inst.
				P_2	I_N	P_w	I	
				[kW]	[A]	[kW]	[A]	
NK 86-1	1	A	NU 60-2/24	9.00	19.80	8.60	19	V+H
NK 86-1	1	A	NU 501-2/9	9.30	20.70	8.90	20.50	V+H
NK 86-2	2	A	NU 60-2/51	21.00	44.50	17.40	37.50	V+H
NK 86-2	2	A	NU 501-2/18	18.50	38.50	17.40	36.50	V+H
NK 86-3	3	A	NU 60-2/74	30.00	67	26.30	62	V+H
NK 86-3	3	A	NU 501-2/30	30.00	63.50	26.30	56	V+H
NK 86-4	4	A	NU 801-2/45	37.00	74	35.20	70	V+H
NK 86-4	4	A	NU 501-2/37	37.00	73	34.70	69	V+H
NK 86-4	4	A	NU 611-2/82	34.00	71	33	69	V+H
NK 86-5	5	A	NU 801-2/55	47.50	95	44	88	V+H
NK 86-5	5	A	NU 501-2/45	45.00	93.30	43	87	V+H
NK 86-6	6	A	NU 801-2/60	53.00	104	52.50	103	V+H
NK 86-6	6	A	NU 701-2/55	55.00	108	53.50	102	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
				DN ₁	max. ϕ					
				[mm]	[mm]					
NK 86...	DN 100	–	10-16	70	220	11.0	V+H	1	6)	6)
	DN 100	–	25-40	70	235	12.0	V+H	1	6)	6)
	DN 125	–	10-16	70	250	12.0	V+H	1	6)	6)
	DN 150	–	10-16	70	285	14.0	V+H	1	6)	6)
	DN 150	–	25-40	70	300	14.0	V+H	1	6)	6)
	R 5	I	10-25	70	182	9.0	V+H	1	6)	6)
	R 5	I	40	70	182	9.0	V+H	1	6)	6)
	R 6	E	10-25	70	182	9.0	V+H	1	6)	6)
R 6	E	40	70	182	9.0	V+H	1	6)	6)	

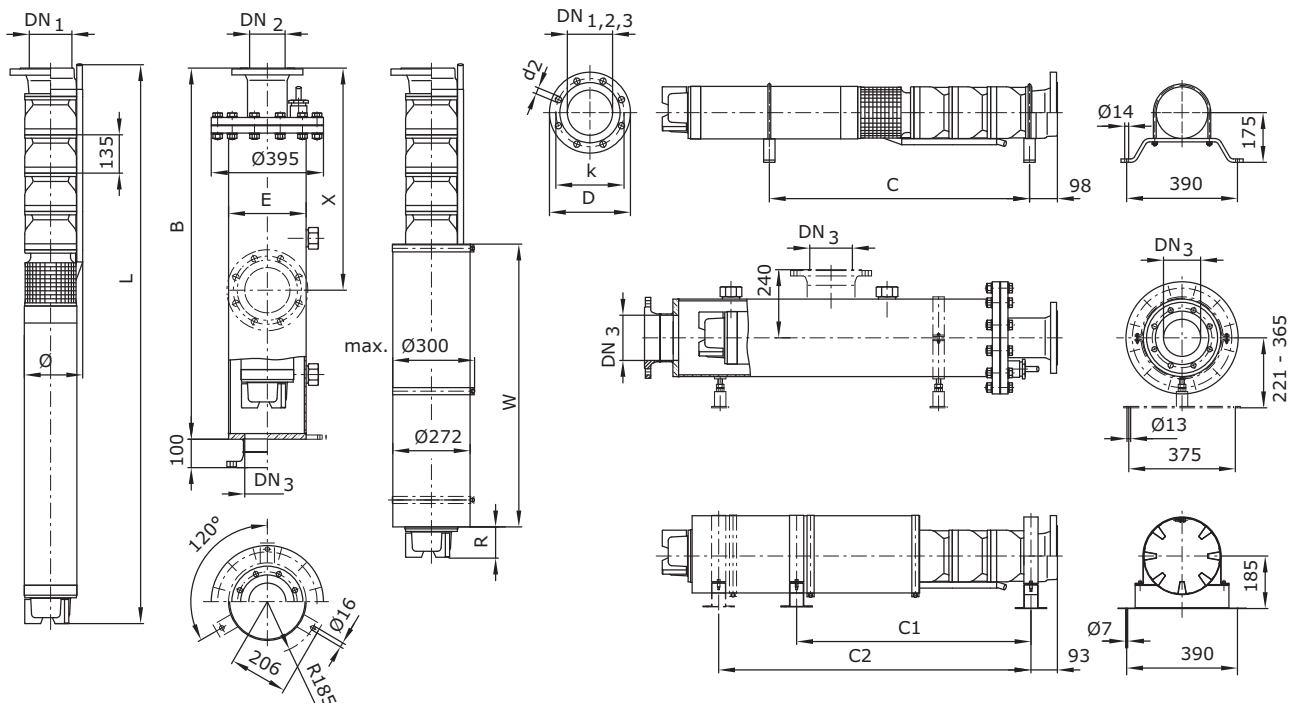
Pump without NRV, with NRV R5, R6, DN100, DN125, DN150 = L+70mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU NK 86

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 86-1	NU 60-2/24	1400	670	273	1100	192	78.0	100
NK 86-1	NU 501-2/9	1400	670	273	1109	192	79.0	100
NK 86-2	NU 60-2/51	2000	940	273	1495	192	116.0	116
NK 86-2	NU 501-2/18	1700	890	273	1407	192	106.0	108
NK 86-3	NU 60-2/74	2300	1190	273	1870	195	155.0	124
NK 86-3	NU 501-2/30	2000	1120	273	1737	192	138.0	116
NK 86-4	NU 801-2/45	2300	1260	273	1883	195	195.0	124
NK 86-4	NU 501-2/37	2600	1440	273	2257	192	184.0	132
NK 86-4	NU 611-2/82	2600	1390	273	2136	195	167.0	132
NK 86-5	NU 801-2/55	2600	1450	273	2118	197	224.0	132
NK 86-5	NU 501-2/45	2900	1650	273	2544	197	211.0	140
NK 86-6	NU 801-2/60	2600	1610	273	2303	200	244.0	132
NK 86-6	NU 701-2/55	2600	-	273	2312	203	266.0	132

Accessories Wilo-EMU NK 86

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 576	6 017 199	6 035 547
NU 501	–	6 038 576	6 017 199	6 035 547
NU 8...	–	6 038 577	6 017 195	¹⁾

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
	–	–			[mm]			
NK 86-1	NU 60-2/24	6 043 202	6 043 127	835	600	748	–	98
NK 86-1	NU 501-2/9	6 043 198	6 043 123	835	600	811	–	107
NK 86-2	NU 60-2/51	6 043 215	6 043 144	1143	885	1143	–	50
NK 86-2	NU 501-2/18	6 043 204	6 043 129	1035	885	1109	–	70
NK 86-3	NU 60-2/74	6 043 225	6 043 159	1300	1020	1518	–	133
NK 86-3	NU 501-2/30	6 043 211	6 043 140	1150	1020	1439	–	150
NK 86-4	NU 801-2/45	6 043 219	6 043 147	1161	1155	1615	–	150
NK 86-4	NU 501-2/37	6 043 234	6 043 170	1500	1405	1959	–	135
NK 86-4	NU 611-2/82	6 043 288	6 043 150	440	1405	1718	–	124
NK 86-5	NU 801-2/55	6 043 250	6 043 161	1300	1290	1850	–	111
NK 86-5	NU 501-2/45	6 043 252	6 043 183	1770	1540	2246	–	67
NK 86-6	NU 801-2/60	6 043 247	6 043 153	1400	1675	2035	–	61
NK 86-6	NU 701-2/55	–	6 043 155	1400	–	–	–	70

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 86...	DN 100	DN 100	–	10-16	10-16	–	8x18	180	220
	DN 100	DN 100	–	25	25	–	8x22	190	235
	DN 100 RV	–	–	40	–	–	8x22	190	235
	DN 125	DN 125	DN 125	10-16	10-16	10	8x18	210	250
	DN 150	DN 150	DN 150	10-16	10-16	10	8x22	240	285
	DN 150 (RV)	DN 150	–	25-40	25-40	–	8x26	250	300
	R 5 I	–	–	10-40	–	–	–	–	–
	R 6 A (RV)	–	–	10-40	–	–	–	–	–

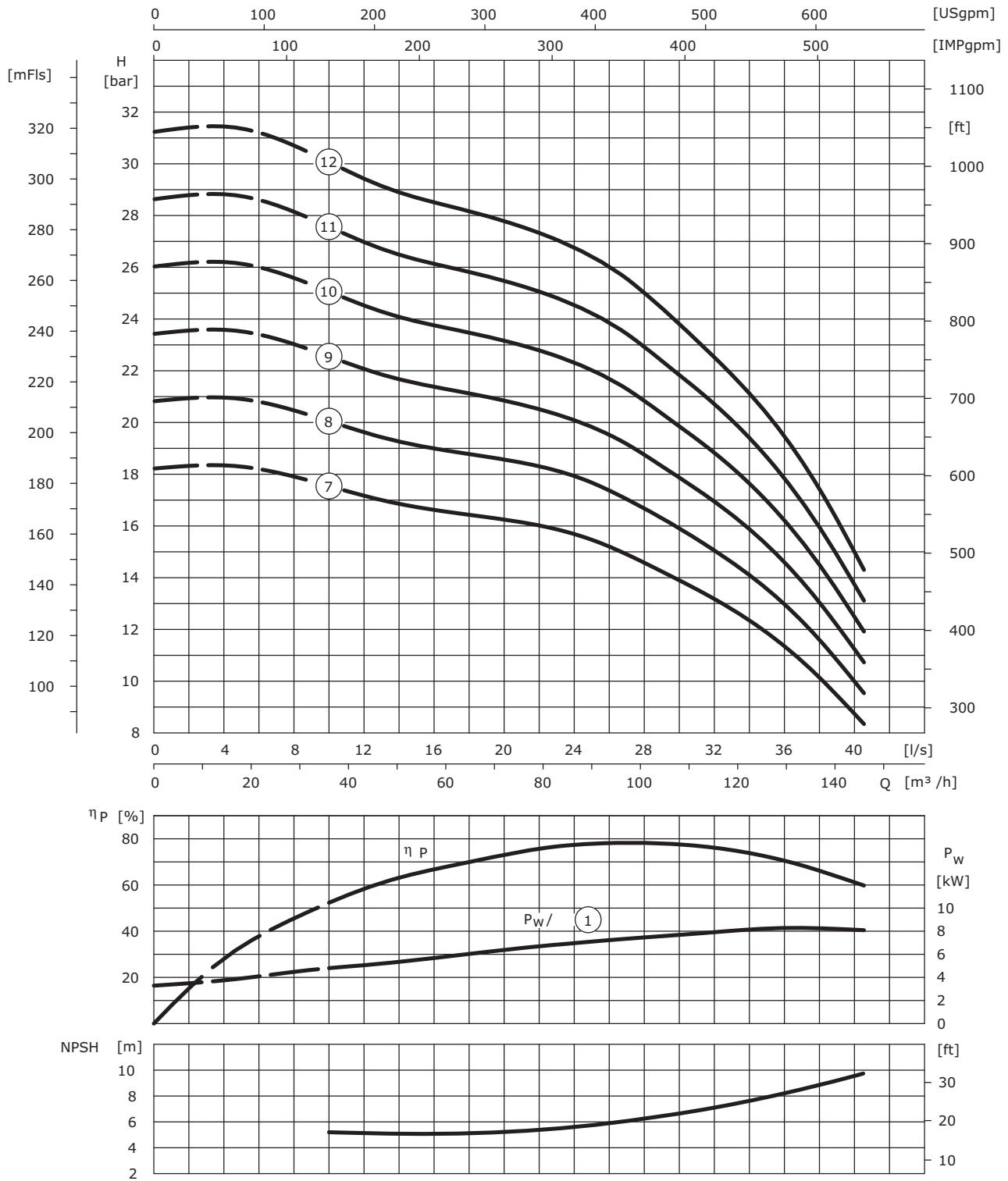
Pump without NRV, with NRV R5, R6, DN100, DN125, DN150 = L+70mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilco-EMU 8" series

Pump curves Wilco-EMU NK 86

Wilco-EMU NK 86



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU NK 86

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.		
				–	P_2	I_N	P_w		I	–
				–	[kW]	[A]	[kW]		[A]	–
NK 86-7	7	A	NU 801-2/75	65.00	129	62	123	V		
NK 86-7	7	A	NU 701-2/75	75.00	145	63	124	V		
NK 86-8	8	A	NU 801-2/87	75.00	145	71.50	139	V		
NK 86-8	8	A	NU 701-2/75	75.00	145	71.50	137	V		
NK 86-9	9	A	NU 701-2/93	93.00	190	81	167	V		
NK 86-9	9	A	NU 811-2/90	90.00	168	76	150	V		
NK 86-10	10	A	NU 701-2/93	93.00	190	89	179	V		
NK 86-10	10	A	NU 811-2/90	90.00	168	83	159	V		
NK 86-11	11	A	NU 701-2/110	110.00	222	98.70	196	V		
NK 86-11	11	A	NU 811-2/90	90.00	168	90	168	V		
NK 86-12	12	A	NU 701-2/110	110.00	222	106	210	V		
NK 86-12	12	A	NU 811-2/95	110.00	209	100	192	V		

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	–	PN ₁	L	max. ϕ	–				
	[mm]	–	[bar]	[mm]		[kg]	–			
NK 86...	DN 100	–	10-16	70	220	11.0	V+H	1	6)	6)
	DN 100	–	25-40	70	235	12.0	V+H	1	6)	6)
	DN 125	–	10-16	70	250	12.0	V+H	1	6)	6)
	DN 150	–	10-16	70	285	14.0	V+H	1	6)	6)
	DN 150	–	25-40	70	300	14.0	V+H	1	6)	6)
	R 5	I	10-25	70	182	9.0	V+H	1	6)	6)
	R 5	I	40	70	182	9.0	V+H	1	6)	6)
	R 6	E	10-25	70	182	9.0	V+H	1	6)	6)
R 6	E	40	70	182	9.0	V+H	1	6)	6)	

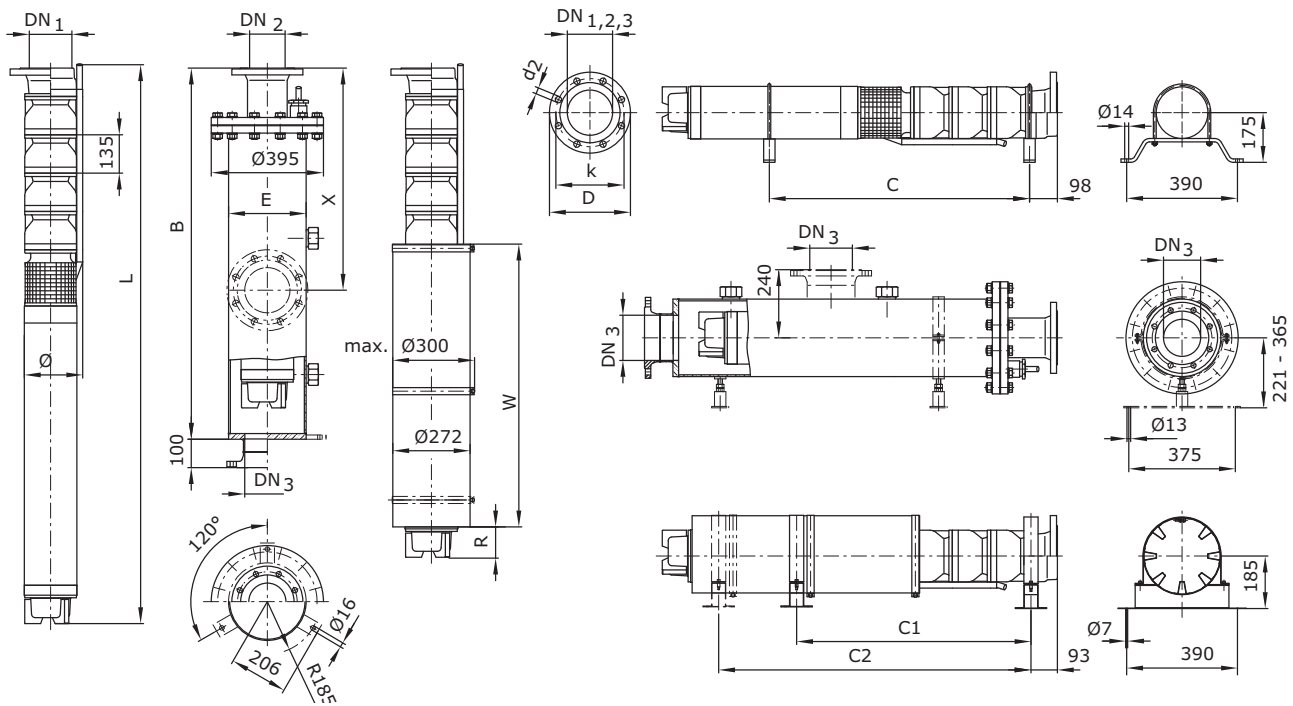
Pump without NRV, with NRV R5, R6, DN100, DN125, DN150 = L+70mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread con-
nection, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU NK 86

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
NK 86-7	NU 801-2/75	2900	-	273	2588	203	282.0	140
NK 86-7	NU 701-2/75	2900	-	273	2638	203	315.0	140
NK 86-8	NU 801-2/87	1)	-	1)	2843	205	314.0	1)
NK 86-8	NU 701-2/75	1)	-	1)	2773	203	327.0	1)
NK 86-9	NU 701-2/93	1)	-	1)	3260	203	416.0	1)
NK 86-9	NU 811-2/90	1)	-	1)	3083	216	326.0	1)
NK 86-10	NU 701-2/93	1)	-	1)	3395	203	428.0	1)
NK 86-10	NU 811-2/90	1)	-	1)	3218	216	338.0	1)
NK 86-11	NU 701-2/110	1)	-	1)	3759	203	483.0	1)
NK 86-11	NU 811-2/90	1)	-	1)	3305	216	350.0	1)
NK 86-12	NU 701-2/110	1)	-	1)	3894	203	494.0	1)
NK 86-12	NU 811-2/95	1)	-	1)	3538	216	366.0	1)

Accessories Wilo-EMU NK 86

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 576	6 017 199	6 035 547
NU 501	–	6 038 576	6 017 199	6 035 547
NU 8...	–	6 038 577	6 017 195	¹⁾

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
		–		[mm]				
NK 86-7	NU 801-2/75	–	6 043 176	1550	–	–	–	61
NK 86-7	NU 701-2/75	–	6 043 179	1550	–	–	–	111
NK 86-8	NU 801-2/87	–	6 043 176	1581	–	–	–	150
NK 86-8	NU 701-2/75	–	6 043 179	1550	–	–	–	111
NK 86-9	NU 701-2/93	–	6 043 187	1850	–	–	–	163
NK 86-9	NU 811-2/90	–	6 043 185	1786	–	–	–	50
NK 86-10	NU 701-2/93	–	6 043 187	1850	–	–	–	163
NK 86-10	NU 811-2/90	–	6 043 185	1786	–	–	–	50
NK 86-11	NU 701-2/110	–	6 043 187	1850	–	–	–	392
NK 86-11	NU 811-2/90	–	6 043 185	1701	–	–	–	135
NK 86-12	NU 701-2/110	–	6 043 187	1850	–	–	–	392
NK 86-12	NU 811-2/95	–	6 043 185	1800	–	–	–	86

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
NK 86...	DN 100	DN 100	–	10-16	10-16	–	8x18	180	220
	DN 100	DN 100	–	25	25	–	8x22	190	235
	DN 100 RV	–	–	40	–	–	8x22	190	235
	DN 125	DN 125	DN 125	10-16	10-16	10	8x18	210	250
	DN 150	DN 150	DN 150	10-16	10-16	10	8x22	240	285
	DN 150 (RV)	DN 150	–	25-40	25-40	–	8x26	250	300
	R 5 I	–	–	10-40	–	–	–	–	–
	R 6 A (RV)	–	–	10-40	–	–	–	–	–

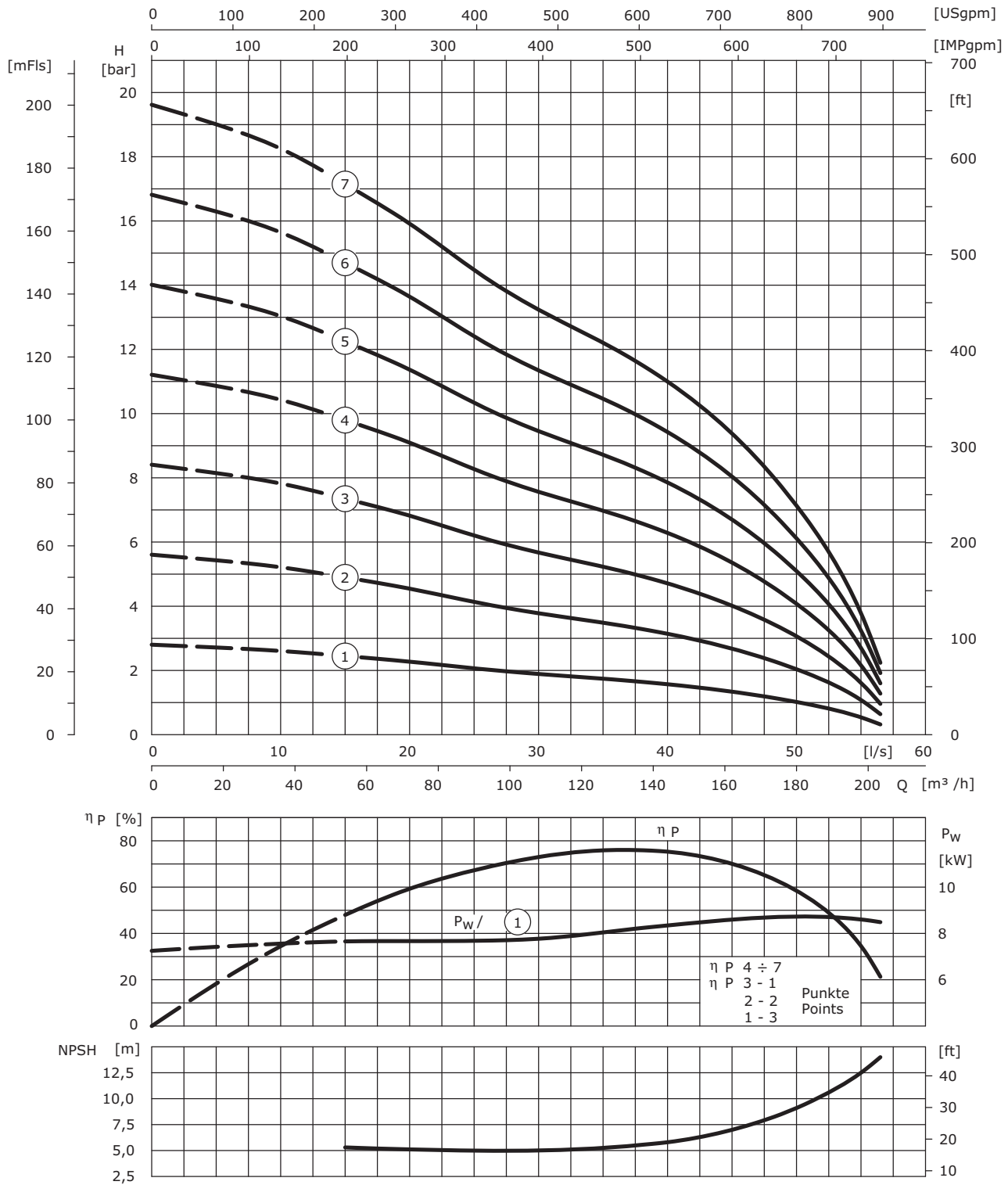
Pump without NRV, with NRV R5, R6, DN100, DN125, DN150 = L+70mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Pump curves Wilo-EMU K 87

Wilo-EMU K 87



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilо-EMU K 87

Technical data

Wilо-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				-	P ₂	I _N	P _w	
				[kW]	[A]	[kW]	[A]	
K 87-1	1	A	NU 60-2/32	12.50	27.50	9.50	21.50	V+H
K 87-1	1	A	NU 501-2/9	9.30	23.30	9.30	20.70	V+H
K 87-2	2	A	NU 60-2/51	21.00	44.50	18.20	38.20	V+H
K 87-2	2	A	NU 501-2/18	18.50	45.30	18	37.50	V+H
K 87-3	3	A	NU 601-2/74	30.00	67	27.30	63	V+H
K 87-3	3	A	NU 501-2/30	30.00	63.50	27.30	58	V+H
K 87-4	4	A	NU 801-2/45	37.00	74	36.70	73	V+H
K 87-4	4	A	NU 501-2/37	37.00	73	36.20	72	V+H
K 87-4	4	A	NU 611-2/90	37.00	77	35.20	74	V
K 87-5	5	A	NU 801-2/55	47.50	95	46	92	V
K 87-5	5	A	NU 501-2/45	45.00	93.30	45	93.30	V
K 87-6	6	A	NU 801-2/68	59.00	113	56.70	109	V
K 87-6	6	A	NU 701-2/55	55.00	108	55	108	V
K 87-7	7	A	NU 801-2/75	65.00	129	65	129	V
K 87-7	7	A	NU 701-2/75	75.00	145	65	127	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilо-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN ₁	PN ₁						L	max. ø
K 87...	DN 100	-	10-16	70	220	11.0	V+H	1	6)	6)		
	DN 100	-	25-40	70	235	12.0	V+H	1	6)	6)		
	DN 125	-	10-16	70	250	12.0	V+H	1	6)	6)		
	DN 150	-	10-16	70	285	14.0	V+H	1	6)	6)		
	DN 150	-	25-40	70	300	14.0	V+H	1	6)	6)		
	R 5	I	10-25	70	182	9.0	V+H	1	6)	6)		
	R 5	I	40	70	182	9.0	V+H	1	6)	6)		
	R 6	E	10-25	70	182	9.0	V+H	1	6)	6)		
R 6	E	40	70	182	9.0	V+H	1	6)	6)			

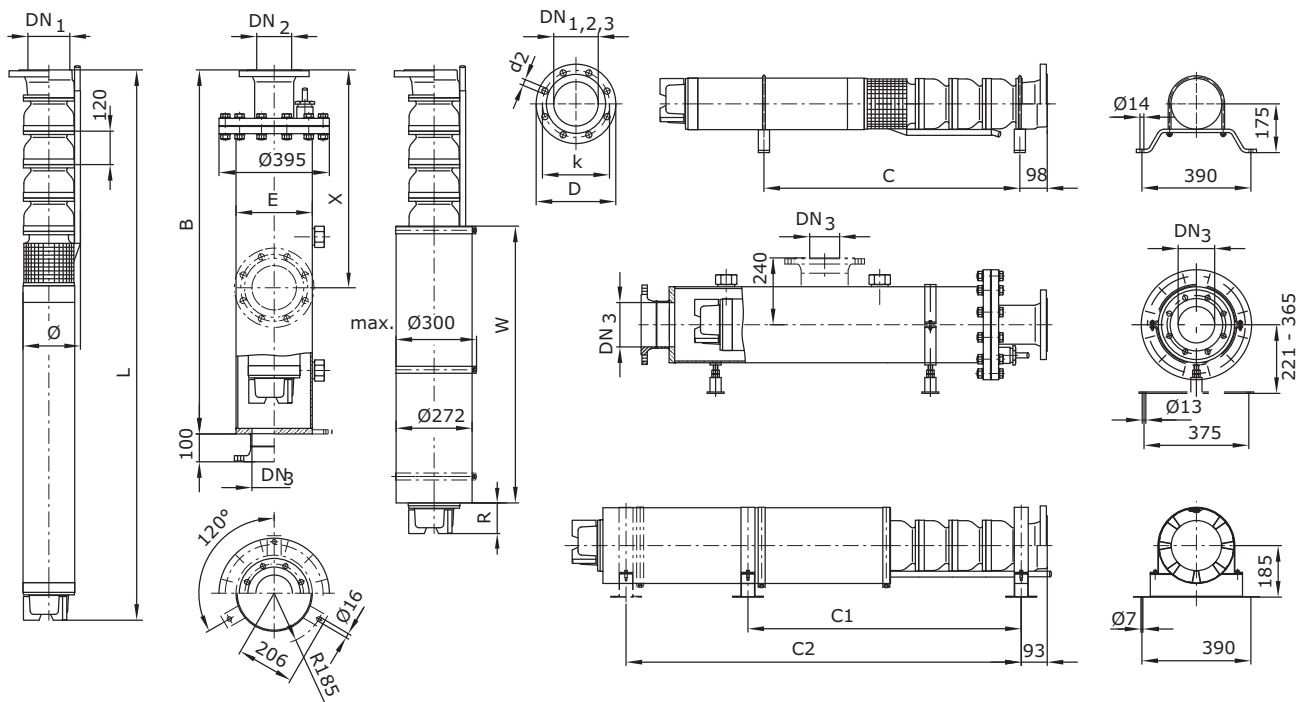
Pump without NRV, with NRV R5, R6, DN100, DN125, DN150 = L+70mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 8" series

Dimensions, weights Wilo-EMU K 87

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
K 87-1	NU 60-2/32	1700	700	273	1165	192	85.0	108
K 87-1	NU 501-2/9	1400	660	273	1094	192	77.0	100
K 87-2	NU 60-2/51	2000	910	273	1465	192	114.0	116
K 87-2	NU 501-2/18	1700	860	273	1377	192	104.0	108
K 87-3	NU 601-2/74	2300	1150	273	1825	195	152.0	124
K 87-3	NU 501-2/30	2000	1080	273	1692	192	135.0	116
K 87-4	NU 801-2/45	2300	1200	273	1823	195	191.0	124
K 87-4	NU 501-2/37	2600	1380	273	2197	192	181.0	132
K 87-4	NU 611-2/90	2600	-	273	2156	195	170.0	132
K 87-5	NU 801-2/55	2300	-	273	2043	197	220.0	124
K 87-5	NU 501-2/45	2900	-	273	2469	197	205.0	140
K 87-6	NU 801-2/68	2600	-	273	2293	200	252.0	132
K 87-6	NU 701-2/55	2600	-	273	2222	203	260.0	132
K 87-7	NU 801-2/75	2900	-	273	2483	200	276.0	140
K 87-7	NU 701-2/75	2900	-	273	2533	203	309.0	140

Accessories Wilo-EMU K 87

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 576	6 017 199	6 035 547
NU 501	–	6 038 576	6 017 199	6 035 547
NU 8...	–	6 038 577	6 017 195	¹⁾

Cooling jacket pipes

Wilo-EMU...	Motor type	SAP No.		Pipe length W	Bearing position			Inlet gap R
		horizontal	vertical		C ₁	C ₂	C ₃	
	–	–			[mm]			
K 87-1	NU 60-2/32	6 043 202	6 043 127	855	592	813	–	150
K 87-1	NU 501-2/9	6 043 198	6 043 123	835	592	796	–	99
K 87-2	NU 60-2/51	6 043 215	6 043 144	1135	862	1113	–	50
K 87-2	NU 501-2/18	6 043 204	6 043 129	1035	862	1079	–	62
K 87-3	NU 601-2/74	6 043 225	6 043 159	1300	982	1473	–	125
K 87-3	NU 501-2/30	6 043 211	6 043 140	1150	982	1394	–	142
K 87-4	NU 801-2/45	6 043 219	6 043 147	1153	1102	1555	–	150
K 87-4	NU 501-2/37	6 043 234	6 043 170	1550	1352	1899	–	127
K 87-4	NU 611-2/90	–	6 043 173	1550	–	–	–	86
K 87-5	NU 801-2/55	–	6 043 161	1300	–	–	–	103
K 87-5	NU 501-2/45	–	6 043 183	1450	–	–	–	29
K 87-6	NU 801-2/68	–	6 043 153	1400	–	–	–	133
K 87-6	NU 701-2/55	–	6 043 155	1400	–	–	–	62
K 87-7	NU 801-2/75	–	6 043 176	1550	–	–	–	53
K 87-7	NU 701-2/75	–	6 043 179	1550	–	–	–	103

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 87...	DN 100	DN 100	–	10-16	10-16	–	8x18	180	220
	DN 100	DN 100	–	25	25	–	8x22	190	235
	DN 100 RV	–	–	40	–	–	8x22	190	235
	DN 125	DN 125	DN 125	10-16	10-16	10	8x18	210	250
	DN 150	DN 150	DN 150	10-16	10-16	10	8x22	240	285
	DN 150 (RV)	DN 150	–	25-40	25-40	–	8x26	250	300
	R 5 I	–	–	10-40	–	–	–	–	–
	R 6 A (RV)	–	–	10-40	–	–	–	–	–

Pump without NRV, with NRV R5, R6, DN100, DN125, DN150 = L+70mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial



Wilо-EMU 10" series and larger

Single pumps	Series description	376
	Wilо-EMU 10" series and larger / 2-pole	
	Wilо-EMU K 102	380
	Wilо-EMU K 103	388
	Wilо-EMU K 104	396
	Wilо-EMU K 105	400
	Wilо-EMU K 126, Wilо-EMU K 126.1	404
	Wilо-EMU SCH 200	408
	Wilо-EMU K 127, Wilо-EMU K 127.1	412
	Wilо-EMU K 146, Wilо-EMU K 146.1	416
	Wilо-EMU KM 1300	420
	Wilо-EMU 10" series and larger / 4-pole	
	Wilо-EMU D 200	424
	Wilо-EMU D 500	428
	Wilо-EMU K 221	432
	Wilо-EMU DCH 980	436
	Wilо-EMU D 1800	440
	Wilо-EMU KM 3100	444
	Wilо-EMU SCH 2350	448

Water Supply Municipal/Industrial

Wilo-EMU 10" series and larger

Series description Wilo-EMU 10" and larger series



Wilo-EMU 10" and larger series

Submersible pumps

Type key hydraulics

Example: **K 127.1-7**

- K** = Submersible hydraulics (K, KM, D, DCH, SCH)
- 12** = Hydraulics diameter
- 7** = Installation size
- 1** = Material version higher resistance
- 7** = Number of stages

Type key motor

Example: **NU 122-2/100**

- NU** = Submersible motor (NU, U)
- 12** = Installation size (5.../6... = 6" installation size; 7.../8... = 8" installation size; 9... = 10" installation size; 12... = 12" installation size; 15.../17... = 16" installation size, 21... = 21" installation size)
- 2** = Number of poles
- 100** = Unit length

Application

Pure water unit for pumping clean water with a maximum temperature up to 20 °C, without long-fibre components, from wells with a minimum diameter of 250 mm, suitable for a maximum installation depth of 300 m.

Application areas in municipal water supply, for sprinkling and irrigation, pressure boosting, lowering of the groundwater level, industrial applications and off-shore installations, for use in geothermal energy as well as for fountains, snow cannons and water organs.

Higher temperatures of the fluid on request.

Horizontal installation possible in relation to type and stage.

Construction

Hydraulics

Hydraulics in single or multistage construction with radial or semi-axial stage construction. The housings are made of GJL (cast iron) with 2K coating or G-CuSn10. The impellers are made of G-CuSn10. The suction piece is placed between the hydraulics and the motor which is covered with a strainer for protection against heavily contaminated fluid. The pressure outlet is designed in type-specific form as pressure port with thread (to K12...) or flange connection. A corresponding non-return valve can be installed in the types K12..., K146 and KM13... instead of the pressure port. In the case of other types a non-return valve can be mounted directly on the pressure port.

Motor

The motor shroud is made of A2/A4 or St/G-CuSn10. Three-phase motor for direct or star/delta start. The motor connection is standardised. The shaft is sealed on the motor side with a mechanical seal with SiC/SiC combination or for the motor types „U“ alternatively with rotary shaft seals. Special materials possible on request. All motors are suitable for a frequency converter operation (SF 1.1).

Cooling

The motor is cooled by the fluid and the required flow speed. In addition, all NU motors are filled with a water-glycol mixture from the manufacturer as standard. The motors of the NU 60..., NU 801, NU 911 ... and NU 122... series can alternatively be filled with secondary hot water (T version). The motor types „U“ are generally to be filled with secondary hot water.

Pressure shroud

For pressure boosting in the pipeline system the unit can be installed in a pressure shroud. This version is without non-return valve as standard. The max. inlet pressure is at 10 bar.

Optional

- Special materials
- 60Hz variant
- Accessories: non-return valve
- Cooling jacket pipe for vertical installation
- Bearing brackets and anti-rotation plate for the horizontal installation
- Length of the power cable upon customer demand

Series description Wilo-EMU 10" and larger series

Technical data

Wilo-EMU...	Control area for frequency converter*	Max. fluid temperature	Min. flow rate at the motor	Cable length
	[Hz]	[°C]	[m/s]	[m]
NU 5...	30-50	30	0.16	upon customer demand
NU 60...	25-50	20	0.10	upon customer demand
NU 7...	30-50	30	0.16	upon customer demand
NU 80... / 2-pole	25-50	20	0.10	upon customer demand
NU 80... / 4-pole	30-50	20	0.10	upon customer demand
NU 811	30-50	30	0.50	upon customer demand
NU 911 / 2-pole	25-50	20	0.10	upon customer demand
NU 911 / 4-pole	30-50	20	0.10	upon customer demand
NU 12 / 2-pole	25-50	20	0.10	upon customer demand
NU 12 / 4-pole	30-50	20	0.10	upon customer demand
U 15...	30-50	20	0.10	upon customer demand
U 17...	25-50	20	0.10	upon customer demand
U 21...	30-50	20	0.10	upon customer demand

* Application of a sine filter or 10 % power reserve in relation to the max. shaft power P_W

Material pump

Wilo-EMU...	Version	Suction piece	Housing	Pressure port	NRV	Impeller	Diffuser	Shaft	Screwed connection
K 102, K 103	A	EN-GJS	EN-GJS	EN-GJS	–	G-CuSn10	EN-GJS	1.4021	A2
	C	G-CuSn10	G-CuSn10	G-CuSn10	–	G-CuSn10	G-CuSn10	1.4122	A2
K 104	A	EN-GJS	EN-GJS	EN-GJS	–	G-CuSn10	–	1.4021	A2
	C	G-CuSn10	G-CuSn10	G-CuSn10	–	G-CuSn10	–	1.4122	A2
K 105, SCH 200, KM 13...	A	EN-GJL	EN-GJL	EN-GJL	–	G-CuSn10	–	1.4021	A2
	C	G-CuSn10	G-CuSn10	G-CuSn10	–	G-CuSn10	–	1.4122	A2
K 126, K 127, K 146	A	EN-GJL	EN-GJL	EN-GJL	EN-GJL	G-CuSn10	–	1.4021	A2
	C	G-CuSn10	G-CuSn10	G-CuSn10	G-CuSn10	G-CuSn10	–	1.4122	A2
K 126.1, K 127.1, K 146.1	A	EN-GJL / EN-GJS	EN-GJS	EN-GJS	EN-GJS	G-CuSn10	–	1.4021	A2
	C	G-CuSn10	G-CuSn10	G-CuSn10	G-CuSn10	G-CuSn10	–	1.4122	A2
KM 1302	A	EN-GJS	EN-GJS	EN-GJS	–	NiAl-Bz	–	1.4021	A2
	C	NiAl-Bz	NiAl-Bz	NiAl-Bz	–	NiAl-Bz	–	1.4122	A4
D 200, D 500, D 1800	A	EN-GJL	EN-GJL	EN-GJL	–	G-CuSn10	–	1.4021	A2
	C	G-CuSn10	G-CuSn10	G-CuSn10	–	G-CuSn10	–	1.4122	A2
K 221, DCH 980	A	EN-GJL / EN-GJS	EN-GJL	EN-GJL	–	G-CuSn10	–	1.4057	A2
	C	G-CuSn10	G-CuSn10	G-CuSn10	–	G-CuSn10	–	1.4122	A2
KM 3100, SCH 2350	A	EN-GJL	EN-GJL	EN-GJL	–	G-CuSn10	–	1.4057	A2
	C	G-CuSn10	G-CuSn10	G-CuSn10	–	G-CuSn10	–	1.4122	A2

The Drinking Water Ordinance and the respective approved technical rules are to be considered for the use of cast iron in the potable water installation!

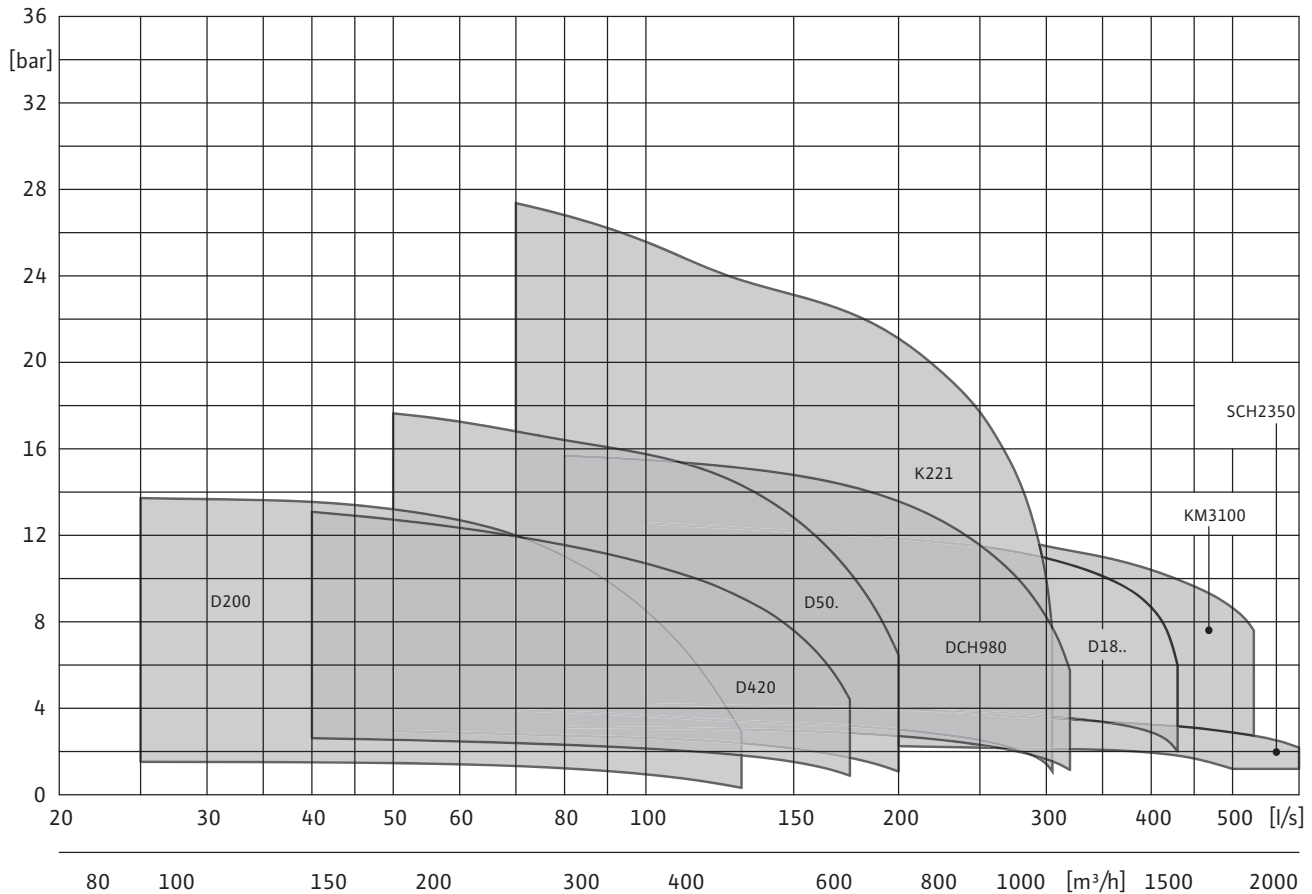
Water Supply Municipal/Industrial

Wilo-EMU 10" series and larger

Series description Wilo-EMU 10" and larger series

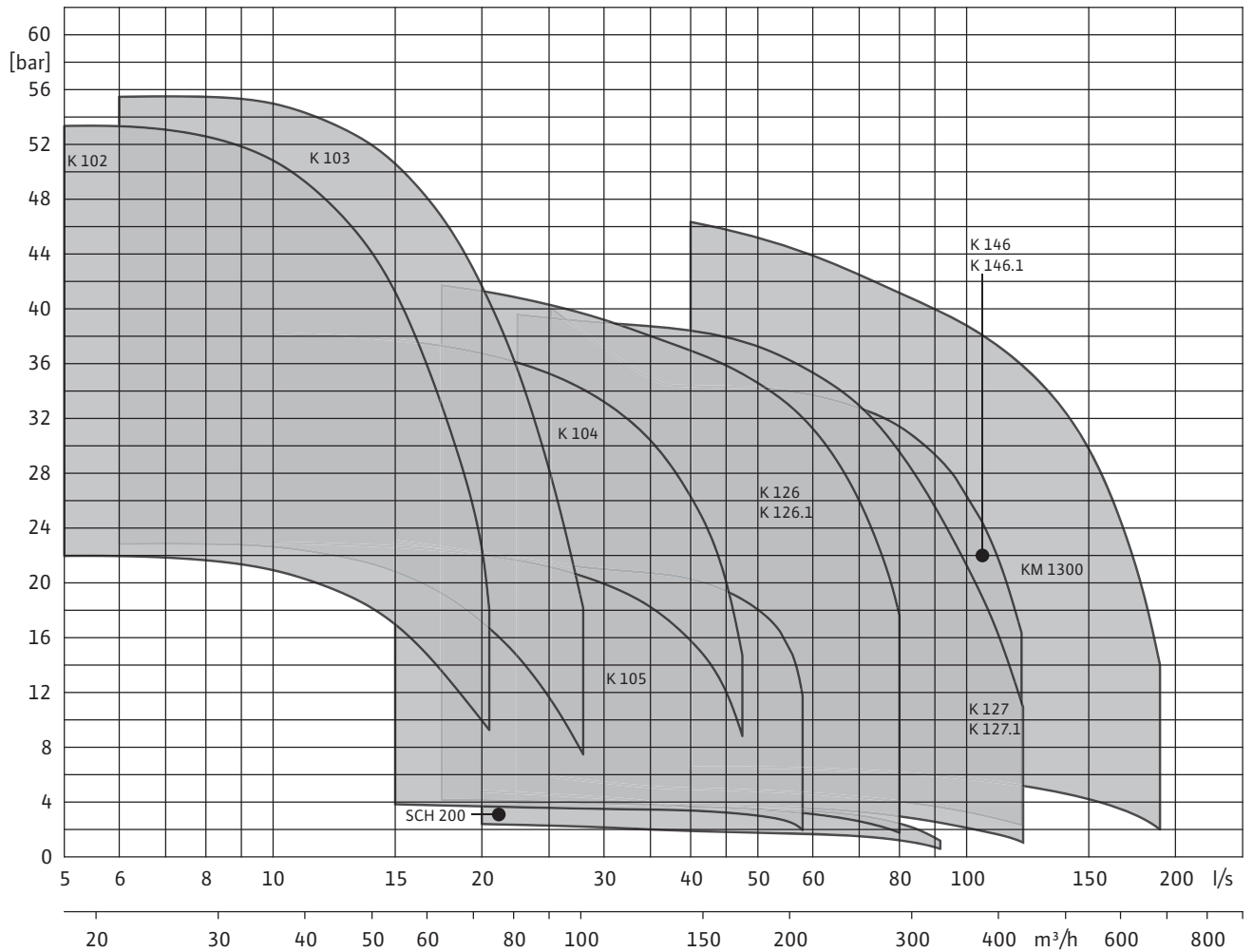
Material motor					
Wilo-EMU...	Version	Housing	Motor shroud	Shaft	Screwed connection
NU 501	A	EN-GJL	1.4301	1.4305	A2
	C	1.4408	1.4571	1.4542	A4
NU 60 / 601	B	NiAl-Bz	1.4301	1.4057	A2
	D	NiAl-Bz	1.4571	1.4462	A2
NU 701	A	EN-GJL	1.4301	1.4305	A2
	C	1.4401	1.4401	1.4542	A4
NU 80 / 801	A	EN-GJL	1.4301	1.4021	A2
	C	G-CuSn10	1.4571	1.4462	A2
NU 811	A	EN-GJS	1.4306	1.4301	A2
	C	1.4571	1.4541	1.4462	A4
NU 911	A	EN-GJL	1.4301	1.4057	A2
	C	G-CuSn10	1.4571	1.4462	A2
NU 12...	A	EN-GJL	St	1.4462	A2
	C	G-CuSn10	G-CuSn10	1.4462	A2
U 15... / U 17...	A	EN-GJS	St	St	A2
	C	G-CuSn10	G-CuSn10	St	A2
U 21...	A	EN-GJS	St	St	A2

Overview pump curve Wilo-EMU 10" series - motor in 4-pole version



Series description Wilo-EMU 10" and larger series

Overview pump curve Wilo-EMU 10" series - motor in 2-pole version

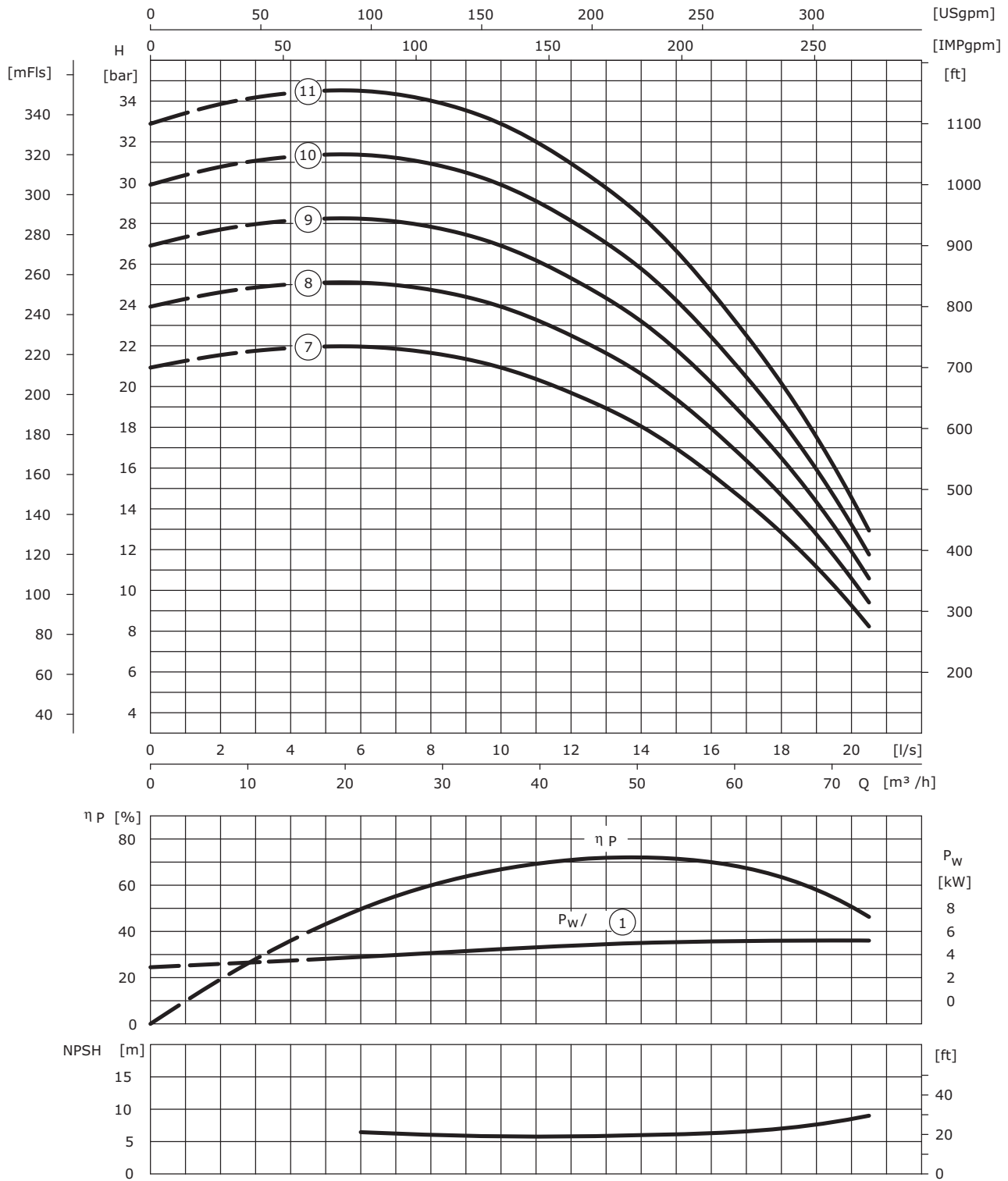


Water Supply Municipal/Industrial

Wilo-EMU 10" series

Pump curves Wilo-EMU K 102

Wilo-EMU K 102



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 102

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.		
				–	P_2	I_N	P_w		I	–
				–	[W]	[A]	[kW]		[A]	–
K 102-7	7	A	NU 801-2/55	47.50	95	39	79	V+H		
K 102-7	7	A	NU 701-2/45	45.00	89	39	78	V		
K 102-8	8	A	NU 801-2/55	47.50	95	44	88	V+H		
K 102-8	8	A	NU 701-2/45	45.00	89	44	86	V		
K 102-9	9	A	NU 801-2/60	53.00	104	50	98	V+H ¹⁾		
K 102-9	9	A	NU 701-2/55	55.00	108	50	96	V		
K 102-10	10	A	NU 801-2/68	59.00	113	55	106	V		
K 102-10	10	A	NU 911-2/45	75.00	149	55	116	V+H ¹⁾		
K 102-10	10	A	NU 701-2/55	55.00	108	55	108	V		
K 102-11	11	A	NU 801-2/75	65.00	129	61	122	V		
K 102-11	11	A	NU 911-2/45	75.00	149	61	126	V+H ¹⁾		
K 102-11	11	A	NU 701-2/75	75.00	145	61	121	V		

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	–	PN ₁	L	max. ϕ			–		
	[mm]	–	[bar]	[mm]		[kg]		–		
K 102...	DN 100	–	10-16	250	220	18	V+H	3	⁷⁾	⁷⁾
	DN 100	–	25-40	250	235	18	V+H	3	⁷⁾	⁷⁾

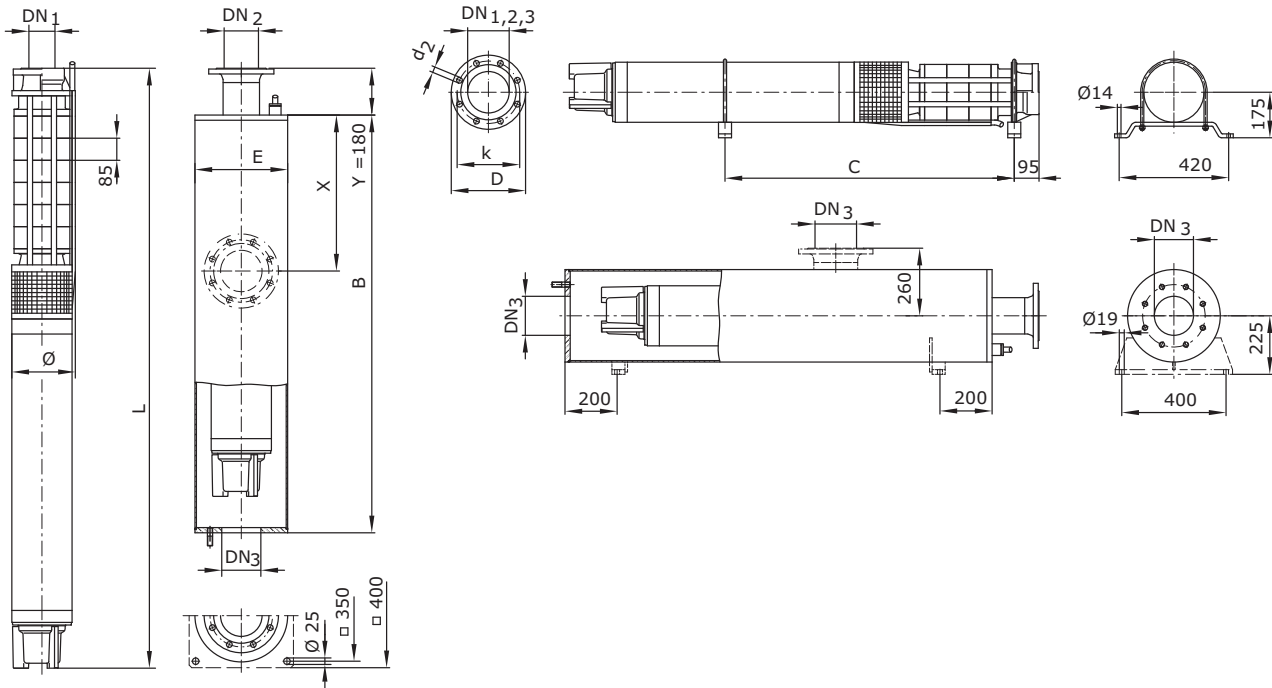
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN100, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU K 102

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
K 102-7	NU 801-2/55	2370	1520	355.6	2194	242	304	159
K 102-7	NU 701-2/45	2300	-	355.6	2126	253	304	156
K 102-8	NU 801-2/55	2450	1610	355.6	2279	242	316	163
K 102-8	NU 701-2/45	2390	-	355.6	2211	253	316	160
K 102-9	NU 801-2/60	1)	1)	1)	2414	249	337	1)
K 102-9	NU 701-2/55	1)	-	1)	2423	253	359	1)
K 102-10	NU 801-2/68	1)	-	1)	2579	249	363	1)
K 102-10	NU 911-2/45	1)	1)	1)	2564	247	440	1)
K 102-10	NU 701-2/55	1)	-	1)	2508	253	371	1)
K 102-11	NU 801-2/75	1)	-	1)	2734	249	389	1)
K 102-11	NU 911-2/45	1)	1)	1)	2649	247	453	1)
K 102-11	NU 701-2/75	1)	-	1)	2784	253	422	1)

Accessories Wilо-EMU K 102

Bearing brackets and anti-vortex plate

Wilо-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 8...	–	6 038 579	6 017 196	¹⁾
NU 911	–	6 038 581	¹⁾	¹⁾

Cooling jacket pipes

Wilо-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	–	A	W	–	–	StVz	CrNi
	–	[mm]		–	[kg]	–	
K 102-7	NU 801-2/55	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-7	NU 701-2/45	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-8	NU 801-2/55	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-8	NU 701-2/45	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-9	NU 801-2/60	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-9	NU 701-2/55	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-10	NU 801-2/68	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-10	NU 911-2/45	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-10	NU 701-2/55	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-11	NU 801-2/75	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-11	NU 911-2/45	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-11	NU 701-2/75	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾

Flange dimensions

Wilо-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 102...	DN 100	DN 100	DN 100	10-16	10-16	10	8x18	180	220
	DN 100	DN 100	–	25-40	25-40	–	8x22	190	235
	R 5 I	–	–	10-40	–	–	–	–	–
	–	DN 125	DN 125	–	10-16	10	8x18	210	250
	–	DN 125	–	–	25-40	–	8x26	220	270
	–	–	DN 150	–	–	10	8x22	240	285

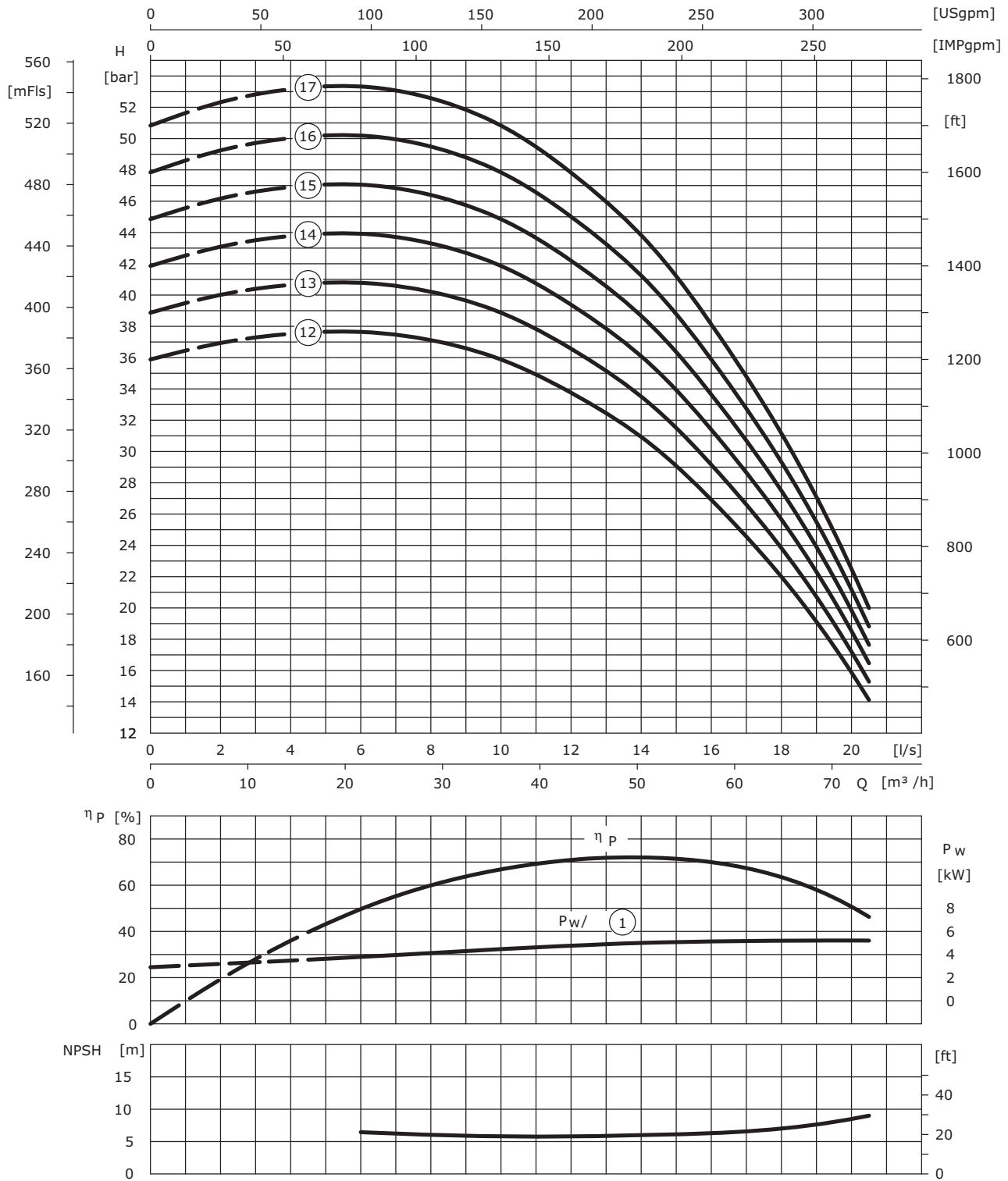
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN100, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilо-EMU 10" series

Pump curves Wilо-EMU K 102

Wilо-EMU K 102



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 102

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	
				[W]	[A]	[kW]	[A]	
K 102-12	12	A	NU 801-2/87	75.00	145	66	129	V
K 102-12	12	A	NU 911-2/45	75.00	149	66	134	V+H ¹⁾
K 102-12	12	A	NU 701-2/75	75.00	145	66	128	V
K 102-13	13	A	NU 801-2/87	75.00	145	72	140	V
K 102-13	13	A	NU 911-2/45	75.00	149	72	144	V+H ¹⁾
K 102-13	13	A	NU 701-2/75	75.00	145	72	138	V
K 102-14	14	A	NU 911-2/50	90.00	178	77	152	V
K 102-14	14	A	NU 701-2/93	93.00	190	77	161	V
K 102-14	14	A	NU 811-2/90	90.00	168	75	149	V
K 102-15	15	A	NU 911-2/50	90.00	178	83	164	V
K 102-15	15	A	NU 701-2/93	93.00	190	83	170	V
K 102-15	15	A	NU 811-2/90	90.00	168	79	154	V
K 102-16	16	A	NU 911-2/50	90.00	178	88	174	V
K 102-16	16	A	NU 701-2/93	93.00	190	88	178	V
K 102-16	16	A	NU 811-2/90	90.00	168	84	161	V
K 102-17	17	A	NU 911-2/60	115.00	235	94	190	V
K 102-17	17	A	NU 701-2/93	93.00	190	93	190	V
K 102-17	17	A	NU 811-2/90	90.00	168	89	167	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN_1	PN_1						L	max. ϕ
				[mm]	[bar]						[mm]	[mm]
K 102...	DN 100	-	10-16	250	220	18	V+H	3	⁷⁾	⁷⁾		
	DN 100	-	25-40	250	235	18	V+H	3	⁷⁾	⁷⁾		

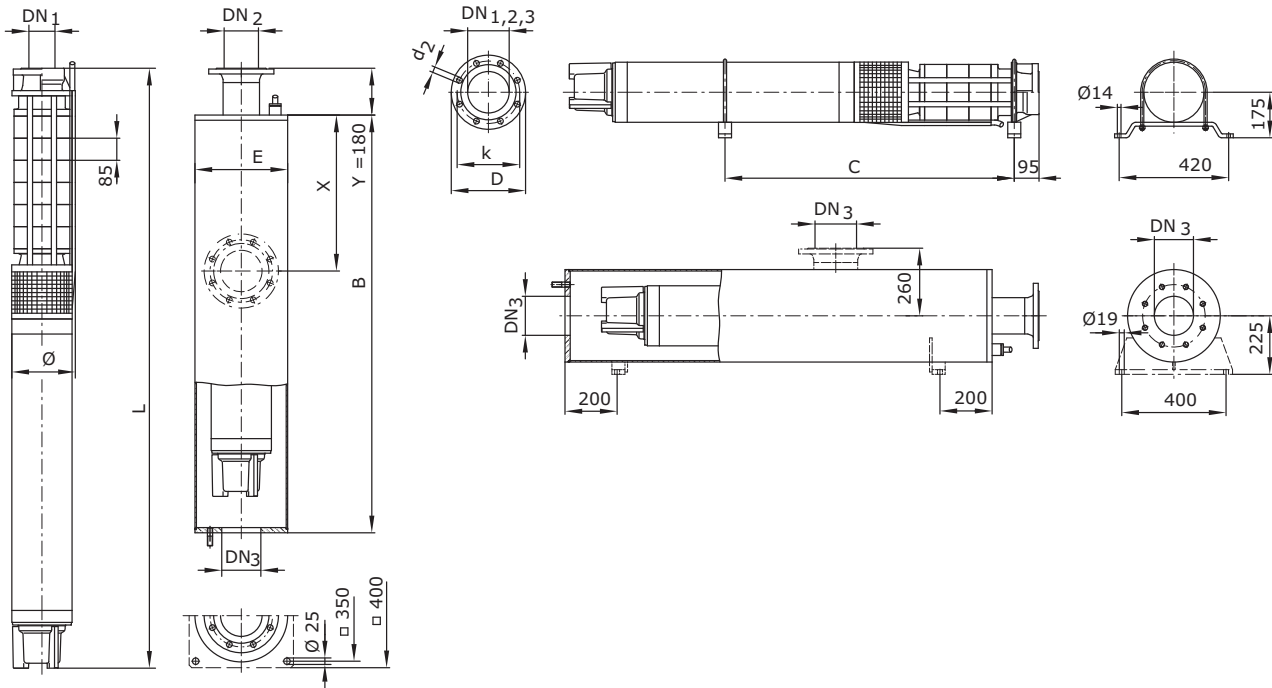
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN100, ⁴⁾ -, ⁵⁾ -, ⁶⁾ -, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU K 102

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
K 102-12	NU 801-2/87	1)	-	1)	2939	249	421	1)
K 102-12	NU 911-2/45	1)	1)	1)	2734	247	465	1)
K 102-12	NU 701-2/75	1)	-	1)	2869	253	434	1)
K 102-13	NU 801-2/87	1)	-	1)	3045	249	437	1)
K 102-13	NU 911-2/45	1)	1)	1)	2840	247	481	1)
K 102-13	NU 701-2/75	1)	-	1)	2975	253	450	1)
K 102-14	NU 911-2/50	1)	-	1)	2975	251	493	1)
K 102-14	NU 701-2/93	1)	-	1)	3412	261	540	1)
K 102-14	NU 811-2/90	1)	-	1)	3235	261	450	1)
K 102-15	NU 911-2/50	1)	-	1)	3060	251	506	1)
K 102-15	NU 701-2/93	1)	-	1)	3497	261	553	1)
K 102-15	NU 811-2/90	1)	-	1)	3320	261	463	1)
K 102-16	NU 911-2/50	1)	-	1)	3145	251	518	1)
K 102-16	NU 701-2/93	1)	-	1)	3582	261	565	1)
K 102-16	NU 811-2/90	1)	-	1)	3405	261	475	1)
K 102-17	NU 911-2/60	1)	-	1)	3330	261	557	1)
K 102-17	NU 701-2/93	1)	-	1)	3667	261	578	1)
K 102-17	NU 811-2/90	1)	-	1)	3490	261	488	1)

Accessories Wilо-EMU K 102

Bearing brackets and anti-vortex plate

Wilо-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 8...	–	6 038 579	6 017 196	¹⁾
NU 911	–	6 038 581	¹⁾	¹⁾

Cooling jacket pipes

Wilо-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	–	A	W	–	–	StVz	CrNi
	–	[mm]		–	[kg]	–	
K 102-12	NU 801-2/87	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-12	NU 911-2/45	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-12	NU 701-2/75	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-13	NU 801-2/87	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-13	NU 911-2/45	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-13	NU 701-2/75	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-14	NU 911-2/50	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-14	NU 701-2/93	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-14	NU 811-2/90	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-15	NU 911-2/50	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-15	NU 701-2/93	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-15	NU 811-2/90	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-16	NU 911-2/50	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-16	NU 701-2/93	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-16	NU 811-2/90	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-17	NU 911-2/60	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-17	NU 701-2/93	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 102-17	NU 811-2/90	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾

Flange dimensions

Wilо-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 102...	DN 100	DN 100	–	25-40	25-40	–	8x22	190	235
	DN 100	–	–	64	–	–	8x26	200	250
	R 5 I	–	–	10-40	–	–	–	–	–
	–	DN 125	–	–	25-40	–	8x26	220	270
	–	–	DN 125	–	–	10	8x18	210	250
	–	–	DN 150	–	–	10	8x22	240	285

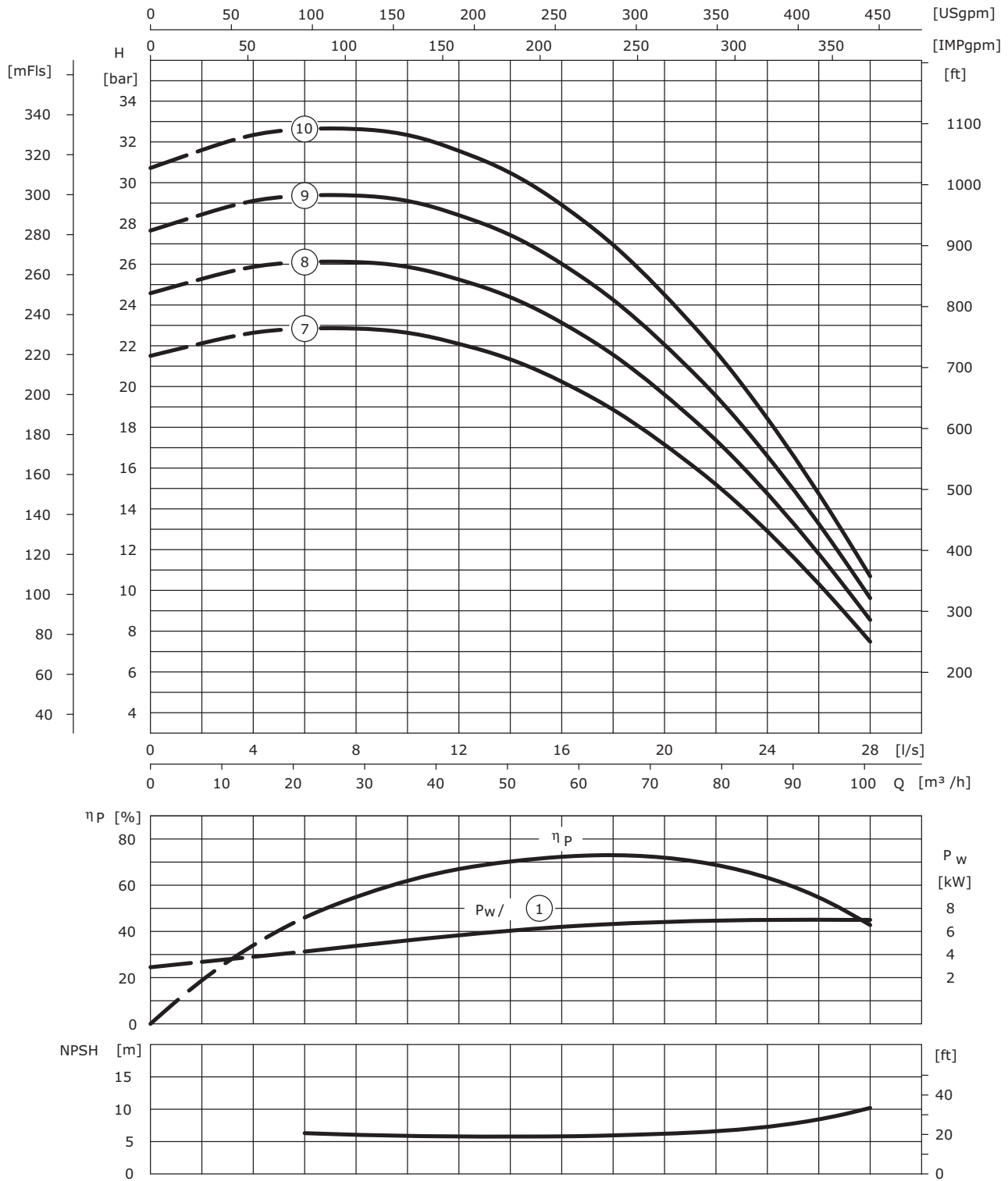
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN100, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilо-EMU 10" series

Pump curves Wilо-EMU K 103

Wilо-EMU K 103



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilо-EMU K 103

Technical data

Wilо-EMU...	No.	Avail- ability*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	
				[W]	[A]	[kW]	[A]	
K 103-7	7	A	NU 801-2/60	53.00	104	52	102	V+H
K 103-7	7	A	NU 701-2/55	55.00	108	52	99	V
K 103-8	8	A	NU 801-2/75	65.00	129	59	118	V
K 103-8	8	A	NU 911-2/45	75.00	149	61	126	V+H
K 103-8	8	A	NU 701-2/75	75.00	145	59	118	V
K 103-9	9	A	NU 801-2/87	75.00	145	68	132	V
K 103-9	9	A	NU 911-2/45	75.00	149	68	137	V+H ¹⁾
K 103-9	9	A	NU 701-2/75	75.00	145	68	132	V
K 103-10	10	A	NU 801-2/87	75.00	145	74	143	V
K 103-10	10	A	NU 911-2/45	75.00	149	74	148	V+H ¹⁾
K 103-10	10	A	NU 701-2/75	75.00	145	74	142	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilо-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	–	PN ₁	L	max. ϕ	–				
	[mm]	–	[bar]	[mm]		[kg]	–			
K 103...	DN 100	–	10-16	250	220	18	V+H	3	⁷⁾	⁷⁾
	DN 100	–	25-40	250	235	18	V+H	3	⁷⁾	⁷⁾

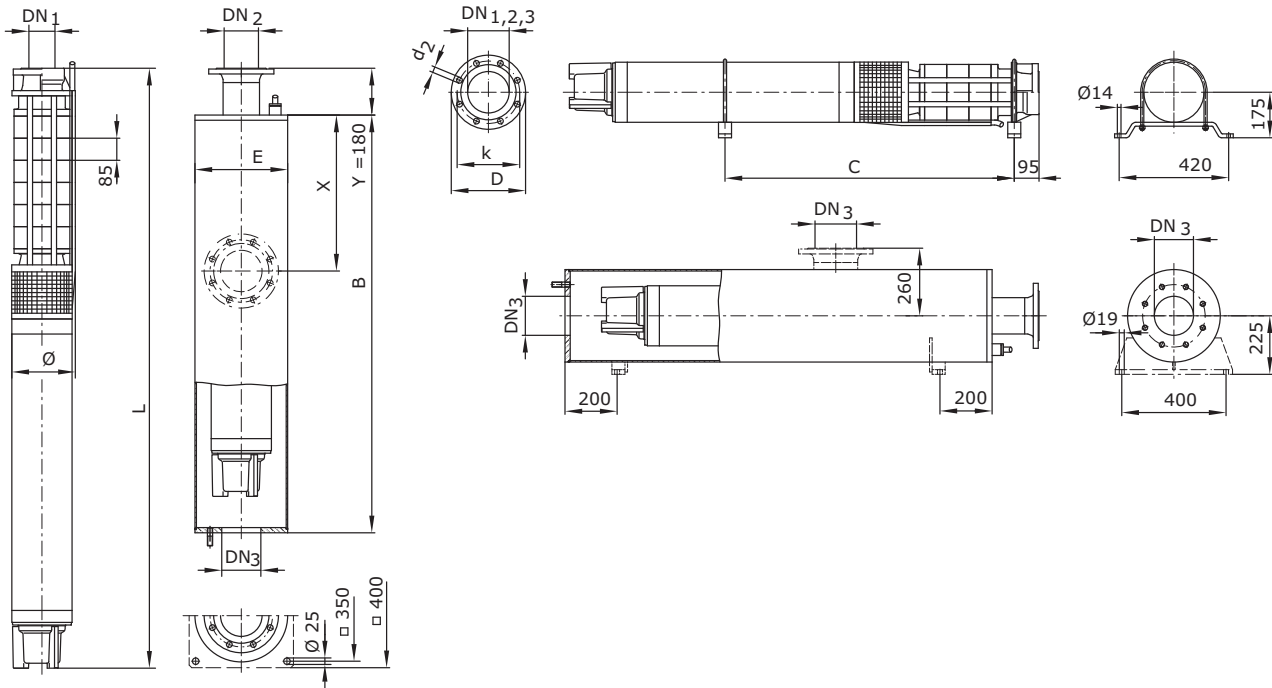
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Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU K 103

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
K 103-7	NU 801-2/60	2420	1500	355.6	2244	249	312	161
K 103-7	NU 701-2/55	2430	-	355.6	2253	253	334	162
K 103-8	NU 801-2/75	2650	-	355.6	2479	249	351	173
K 103-8	NU 911-2/45	2570	1670	355.6	2394	247	403	167
K 103-8	NU 701-2/75	2700	-	355.6	2529	253	384	175
K 103-9	NU 801-2/87	1)	-	1)	2684	249	384	1)
K 103-9	NU 911-2/45	1)	1)	1)	2479	247	428	1)
K 103-9	NU 701-2/75	1)	-	1)	2614	253	397	1)
K 103-10	NU 801-2/87	1)	-	1)	2769	249	396	1)
K 103-10	NU 911-2/45	1)	1)	1)	2564	247	440	1)
K 103-10	NU 701-2/75	1)	-	1)	2699	253	409	1)

Accessories Wilco-EMU K 103

Bearing brackets and anti-vortex plate

Wilco-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 8...	–	6 038 579	6 017 196	¹⁾
NU 911	–	6 038 581	¹⁾	¹⁾

Cooling jacket pipes

Wilco-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	–	A	W	–	–	StVz	CrNi
	–	[mm]		–	[kg]	–	
K 103-7	NU 801-2/60	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-7	NU 701-2/55	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-8	NU 801-2/75	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-8	NU 911-2/45	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-8	NU 701-2/75	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-9	NU 801-2/87	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-9	NU 911-2/45	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-9	NU 701-2/75	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-10	NU 801-2/87	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-10	NU 911-2/45	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-10	NU 701-2/75	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾

Flange dimensions

Wilco-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 103...	DN 100	DN 100	DN 100	10	10	10	8x18	180	235
	DN 100	DN 100	–	25-40	25-40	–	8x22	190	250
	R 5 I	–	–	10-40	–	–	–	–	–
	–	DN 125	DN 125	–	10	10	8x18	210	270
	–	DN 125	–	–	25-40	–	8x26	220	250
	–	–	DN 150	–	–	10	8x22	240	285

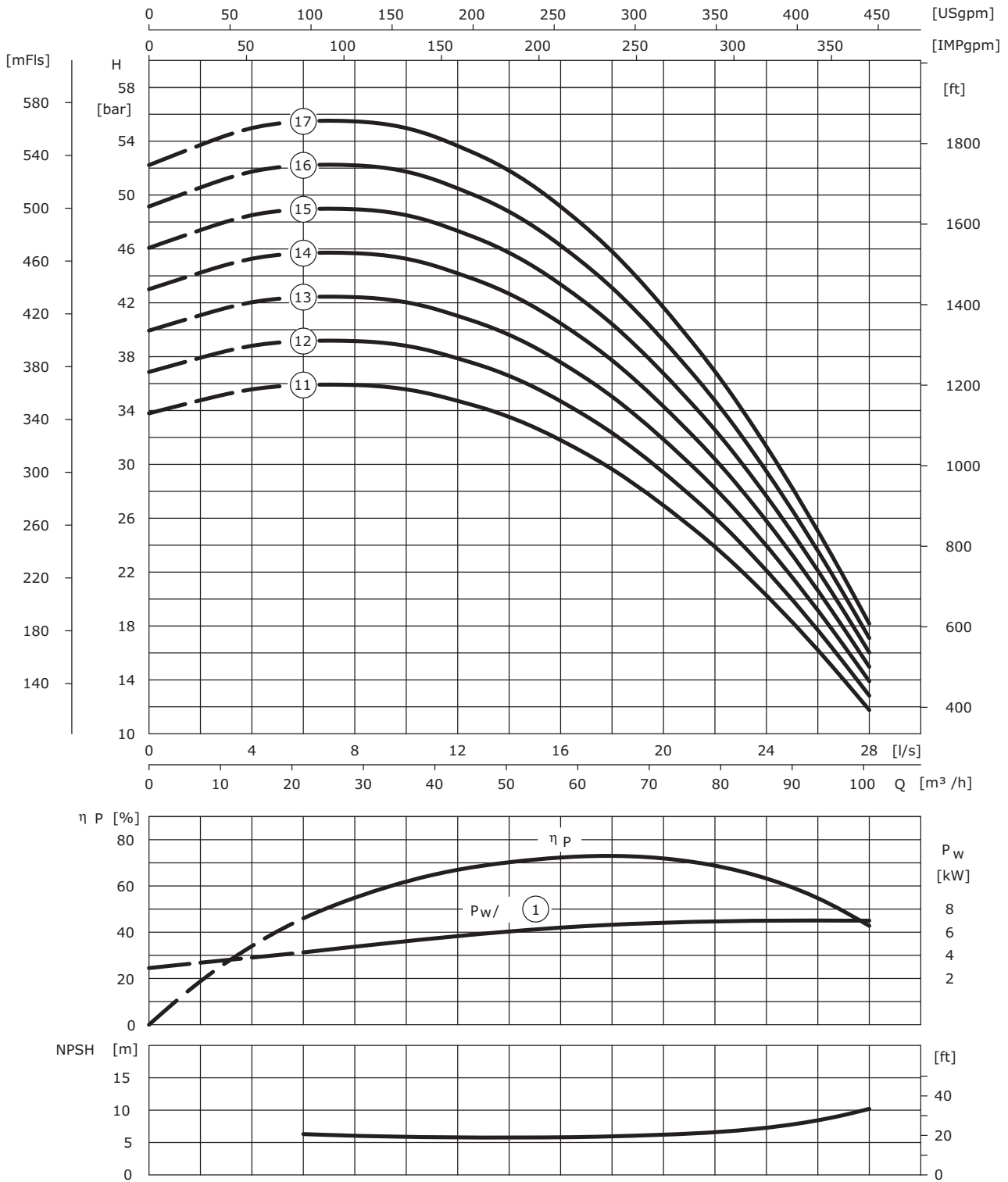
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Water Supply Municipal/Industrial

Wilo-EMU 10" series

Pump curves Wilo-EMU K 103

Wilo-EMU K 103



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 103

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				-	P_2	I_N	P_W	
				[W]	[A]	[kW]	[A]	
K 103-11	11	A	NU 911-2/50	90.00	178	81	160	V+H ¹⁾
K 103-11	11	A	NU 701-2/93	93.00	190	82	168	V+H ¹⁾
K 103-11	11	A	NU 811-2/90	90.00	168	78	153	V
K 103-12	12	A	NU 911-2/50	90.00	178	89	176	V+H ¹⁾
K 103-12	12	A	NU 701-2/93	93.00	190	89	179	V+H ¹⁾
K 103-12	12	A	NU 811-2/90	90.00	168	84	161	V
K 103-13	13	A	NU 911-2/60	115.00	235	96	194	V+H ¹⁾
K 103-13	13	A	NU 701-2/110	110.00	222	96	192	V+H ¹⁾
K 103-13	13	A	NU 811-2/95	110.00	209	92	181	V
K 103-14	14	A	NU 911-2/60	115.00	235	104	210	V
K 103-14	14	A	NU 701-2/110	110.00	222	104	205	V
K 103-14	14	A	NU 811-2/95	110.00	209	99	191	V
K 103-15	15	A	NU 911-2/60	115.00	235	111	225	V
K 103-15	15	A	NU 701-2/130	130.00	252	113	220	V
K 103-16	16	A	NU 911-2/75	145.00	280	119	235	V
K 103-16	16	A	NU 701-2/130	130.00	252	119	230	V
K 103-17	17	A	NU 911-2/75	145.00	280	126	245	V
K 103-17	17	A	NU 701-2/130	130.00	252	126	240	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN ₁	PN ₁						L	max. ϕ
				[mm]	[bar]						[mm]	[mm]
K 103...	DN 100	-	10-16	250	220	18	V+H	3	7)	7)		
	DN 100	-	25-40	250	235	18	V+H	3	7)	7)		

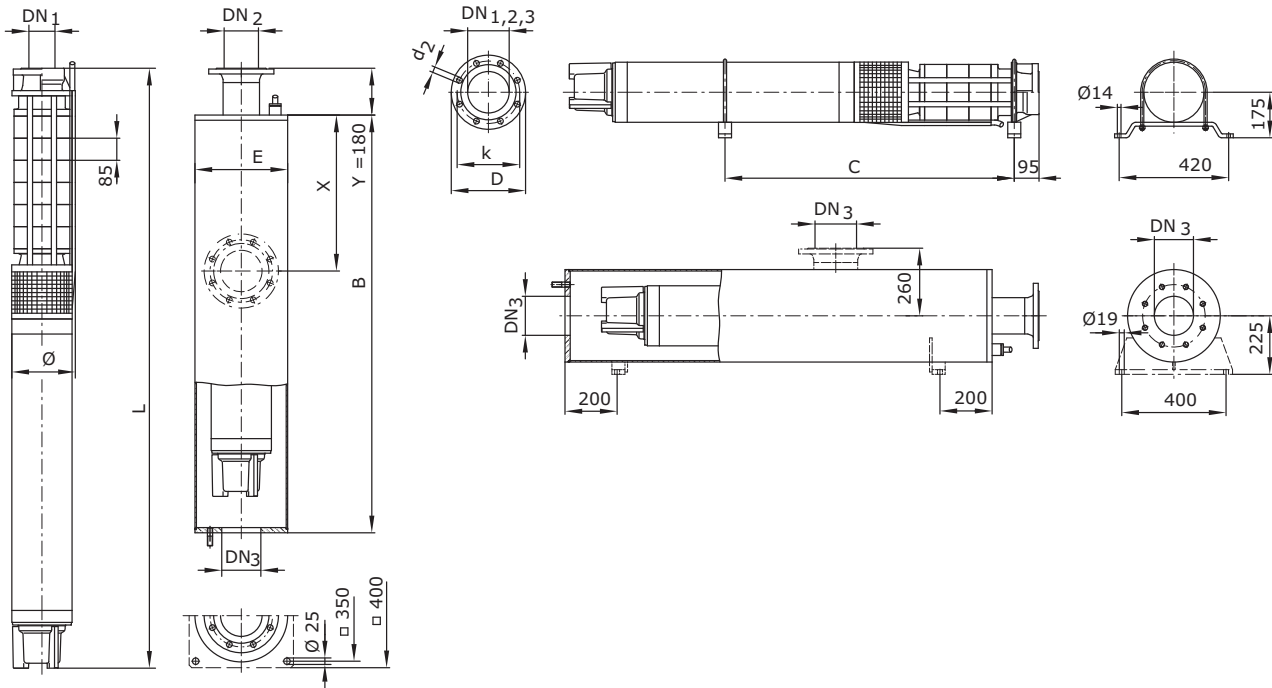
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN100, ⁴⁾ -, ⁵⁾ -, ⁶⁾ -, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU K 103

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
K 103-11	NU 911-2/50	1)	1960	1)	2699	251	453	1)
K 103-11	NU 701-2/93	1)	1)	1)	3136	261	500	1)
K 103-11	NU 811-2/90	1)	-	1)	2959	261	410	1)
K 103-12	NU 911-2/50	1)	1)	1)	2784	251	465	1)
K 103-12	NU 701-2/93	1)	1)	1)	3221	261	512	1)
K 103-12	NU 811-2/90	1)	-	1)	3044	261	422	1)
K 103-13	NU 911-2/60	1)	1)	1)	2990	261	507	1)
K 103-13	NU 701-2/110	1)	1)	1)	3556	261	571	1)
K 103-13	NU 811-2/95	1)	-	1)	3200	261	446	1)
K 103-14	NU 911-2/60	1)	-	1)	3075	261	519	1)
K 103-14	NU 701-2/110	1)	-	1)	3641	261	583	1)
K 103-14	NU 811-2/95	1)	-	1)	3285	261	458	1)
K 103-15	NU 911-2/60	1)	-	1)	3160	261	532	1)
K 103-15	NU 701-2/130	1)	-	1)	3929	261	642	1)
K 103-16	NU 911-2/75	1)	-	1)	3395	261	583	1)
K 103-16	NU 701-2/130	1)	-	1)	4014	261	654	1)
K 103-17	NU 911-2/75	1)	-	1)	3480	261	596	1)
K 103-17	NU 701-2/130	1)	-	1)	4099	261	667	1)

Accessories Wilo-EMU K 103

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 8...	–	6 038 579	6 017 196	¹⁾
NU 911	–	6 038 581	¹⁾	¹⁾

Cooling jacket pipes

Wilo-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	–	A	W	–	–	StVz	CrNi
	–	[mm]		–	[kg]	–	
K 103-11	NU 911-2/50	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-11	NU 701-2/93	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-11	NU 811-2/90	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-12	NU 911-2/50	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-12	NU 701-2/93	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-12	NU 811-2/90	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-13	NU 911-2/60	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-13	NU 701-2/110	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-13	NU 811-2/95	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-14	NU 911-2/60	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-14	NU 701-2/110	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-14	NU 811-2/95	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-15	NU 911-2/60	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-15	NU 701-2/130	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-16	NU 911-2/75	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-16	NU 701-2/130	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-17	NU 911-2/75	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 103-17	NU 701-2/130	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 103...	DN 100	DN 100	–	25-40	25-40	–	8x22	190	235
	DN 100	–	–	64	–	–	8x26	200	250
	R 5 I	–	–	10-40	–	–	–	–	–
	–	DN 125	–	–	25-40	–	8x26	220	270
	–	–	DN 125	–	–	10	8x18	210	250
	–	–	DN 150	–	–	10	8x22	240	285

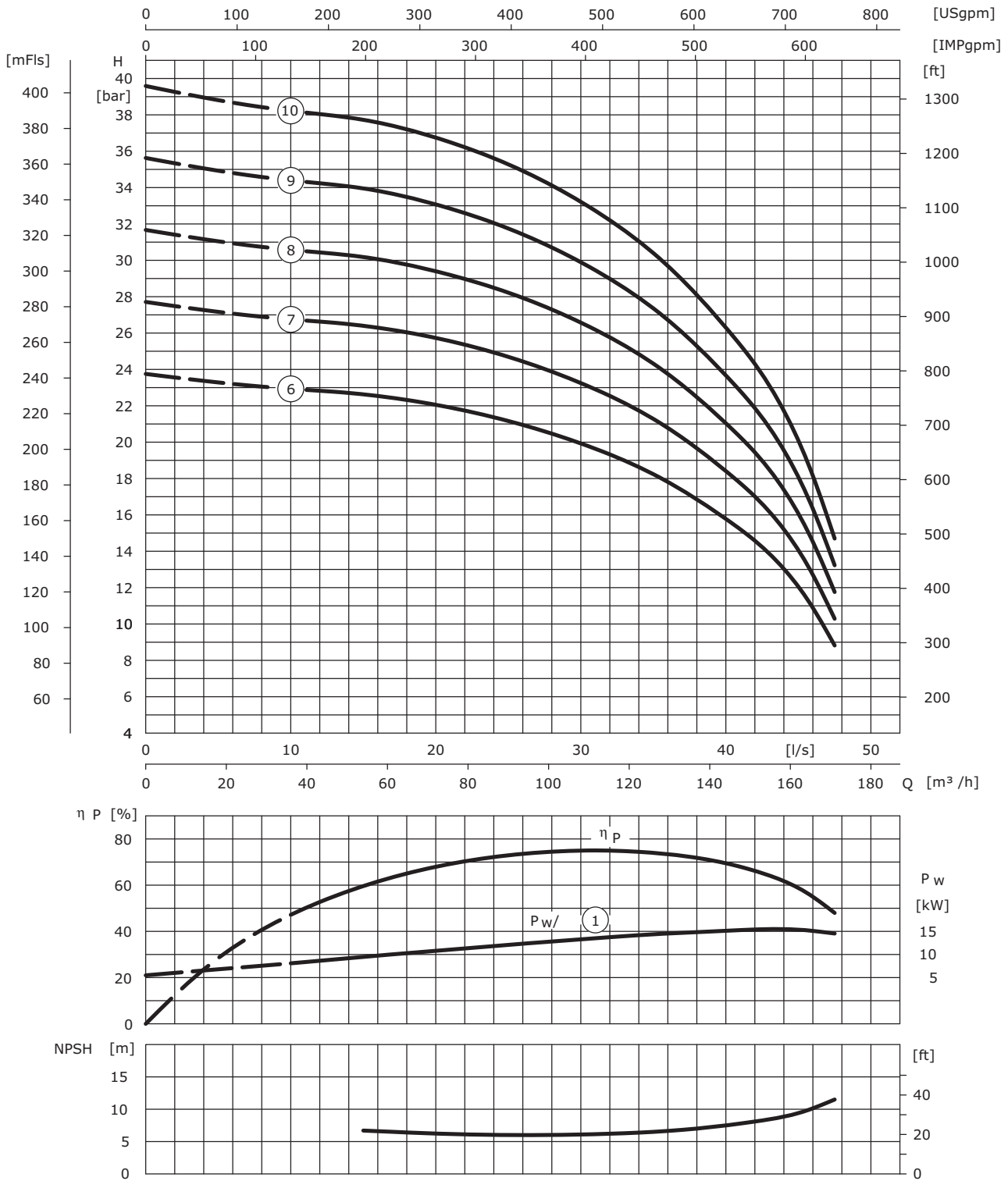
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN100, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Pump curves Wilo-EMU K 104

Wilo-EMU K 104



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 104

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_W	I	-
				[W]	[A]	[kW]	[A]	-
K 104-6	6	A	NU 911-2/60	115.00	235	98	198	V+H
K 104-6	6	A	NU 701-2/110	110.00	222	100	198	V+H ¹⁾
K 104-6	6	A	NU 811-2/95	110.00	209	93	182	V
K 104-7	7	A	NU 911-2/60	115.00	235	114	230	V+H ¹⁾
K 104-7	7	A	NU 701-2/130	130.00	252	114	225	V+H ¹⁾
K 104-8	8	A	NU 911-2/75	145.00	280	130	255	V
K 104-8	8	A	NU 701-2/130	130.00	252	130	252	V
K 104-9	9	A	NU 911-2/90	170.00	330	147	280	V
K 104-9	9	A	NU 701-2/150	150.00	284	149	285	V
K 104-10	10	A	NU 911-2/90	170.00	330	163	315	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. Ø	-	-	-	-	-
	[mm]	-	[bar]	[mm]		[kg]	-	-	-	-
K 104...	DN 100	-	10-16	250	220	18	V+H	3	7)	7)
	DN 100	-	25-40	250	235	18	V+H	3	7)	7)

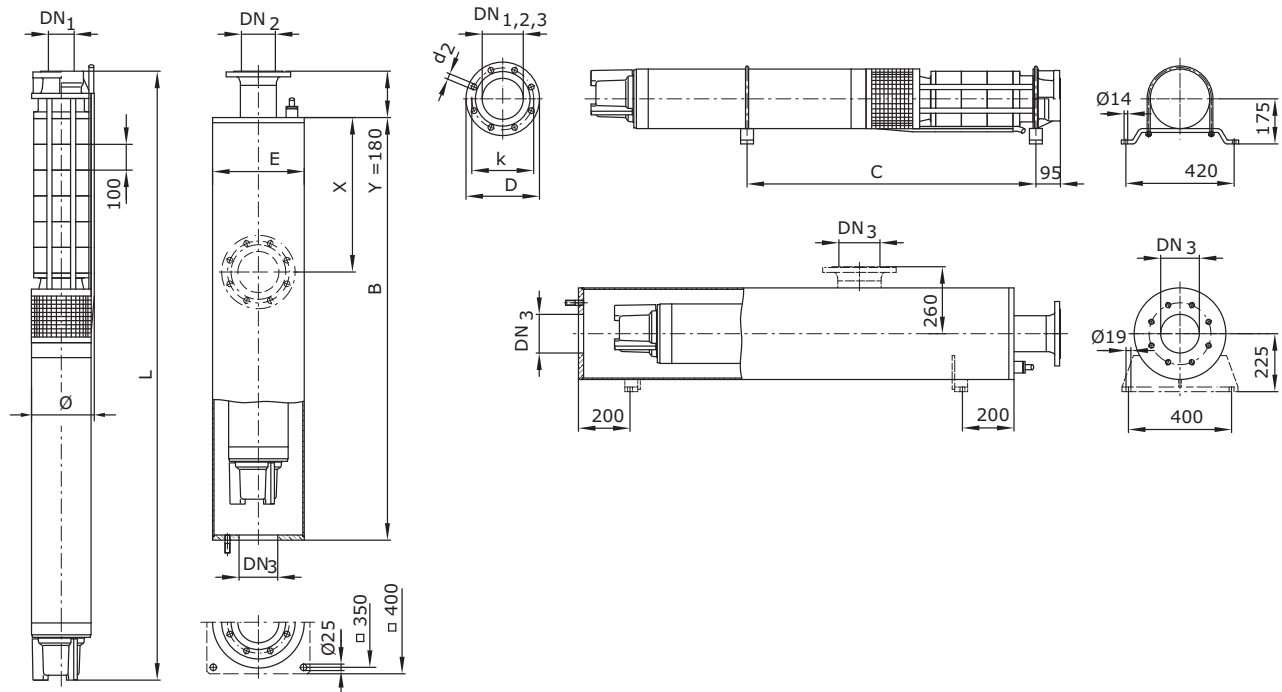
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. Ø with flange connection DN100, ⁴⁾ -, ⁵⁾ -, ⁶⁾ -, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU K 104

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
K 104-6	NU 911-2/60	2640	1670	355.6	2464	251	409	172
K 104-6	NU 701-2/110	1)	1)	1)	3030	260	473	1)
K 104-6	NU 811-2/95	2850	-	355.6	2674	261	348	181
K 104-7	NU 911-2/60	2740	1770	355.6	2564	251	424	177
K 104-7	NU 701-2/130	1)	1)	1)	3333	260	534	1)
K 104-8	NU 911-2/75	1)	-	1)	2814	251	477	1)
K 104-8	NU 701-2/130	1)	-	1)	3433	260	548	1)
K 104-9	NU 911-2/90	1)	-	1)	3064	255	531	1)
K 104-9	NU 701-2/150	1)	-	1)	3762	260	612	1)
K 104-10	NU 911-2/90	1)	-	1)	3164	255	545	1)

Accessories Wilo-EMU K 104

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 8...	–	6 038 579	6 017 196	¹⁾
NU 911	–	6 038 581	¹⁾	¹⁾

Cooling jacket pipes

Wilo-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	–	A	W	–	–	StVz	CrNi
	–	[mm]		–	[kg]	–	
K 104-6	NU 911-2/60	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 104-6	NU 701-2/110	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 104-6	NU 811-2/95	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 104-7	NU 911-2/60	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 104-7	NU 701-2/130	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 104-8	NU 911-2/75	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 104-8	NU 701-2/130	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 104-9	NU 911-2/90	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 104-9	NU 701-2/150	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
K 104-10	NU 911-2/90	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 104...	DN 100	DN 100	DN 100	10	10-16	10	8x18	180	220
	DN 100	DN 100	–	25-40	25-40	–	8x22	190	235
	–	DN 125	DN 125	–	10-16	10	8x18	210	250
	–	DN 125	–	–	25-40	–	8x26	220	270
	–	–	DN 150	–	–	10	8x22	240	285
	R 5 I	–	–	10-40	–	–	–	–	–

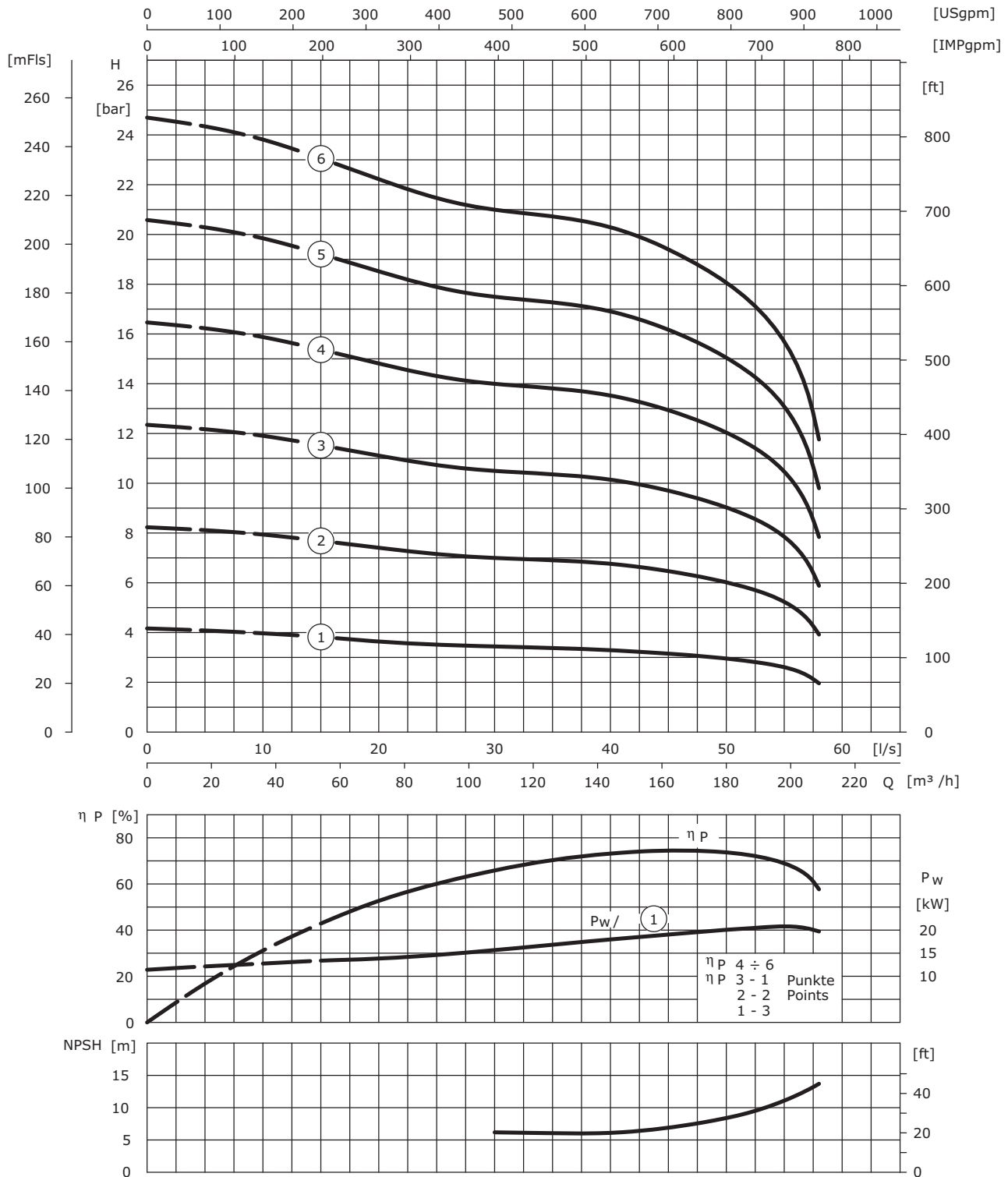
Pump without non-return valve. ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN100, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Pump curves Wilo-EMU K 105

Wilo-EMU K 105



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 105

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P₂	I_N	P_w	I	-
				[W]	[A]	[kW]	[A]	-
K 105-1	1	A	NU 60-2/51	21.00	44.50	21	44.50	V+H
K 105-1	1	A	NU 501-2/22	22.00	45.30	22	45.30	V+H
K 105-2	2	A	NU 801-2/55	47.50	95	44	88	V+H
K 105-2	2	A	NU 501-2/45	45.00	93.30	44	89	V+H
K 105-3	3	A	NU 801-2/75	65.00	129	65	129	V
K 105-3	3	A	NU 911-2/45	75.00	149	65	132	V+H ¹⁾
K 105-3	3	A	NU 701-2/75	75.00	145	65	127	V
K 105-4	4	A	NU 911-2/50	90.00	178	86	170	V+H
K 105-4	4	A	NU 701-2/93	93.00	190	86	174	V+H ¹⁾
K 105-4	4	A	NU 811-2/90	90.00	168	81	157	V
K 105-5	5	A	NU 911-2/60	115.00	235	107	215	V+H ¹⁾
K 105-5	5	A	NU 701-2/110	110.00	222	107	210	V+H ¹⁾
K 105-5	5	A	NU 811-2/95	110.00	209	101	194	V
K 105-6	6	A	NU 911-2/75	145.00	280	128	250	V
K 105-6	6	A	NU 701-2/130	130.00	252	128	245	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
				DN ₁	max. Ø					
				[mm]	[mm]					
				L	max. Ø					
K 105...	DN 150	-	10-16	320	300	50,2	V+H	3	6 001 388	6 035 598
	DN 150	-	25	370	340	53.7	V+H	3	6 001 598	6 035 674
	G 6	I	10-16	275	223	21.2	V+H	-	6 034 144	⁷⁾
	G 6	I	25	275	223	21.2	V+H	-	⁷⁾	6 034 195

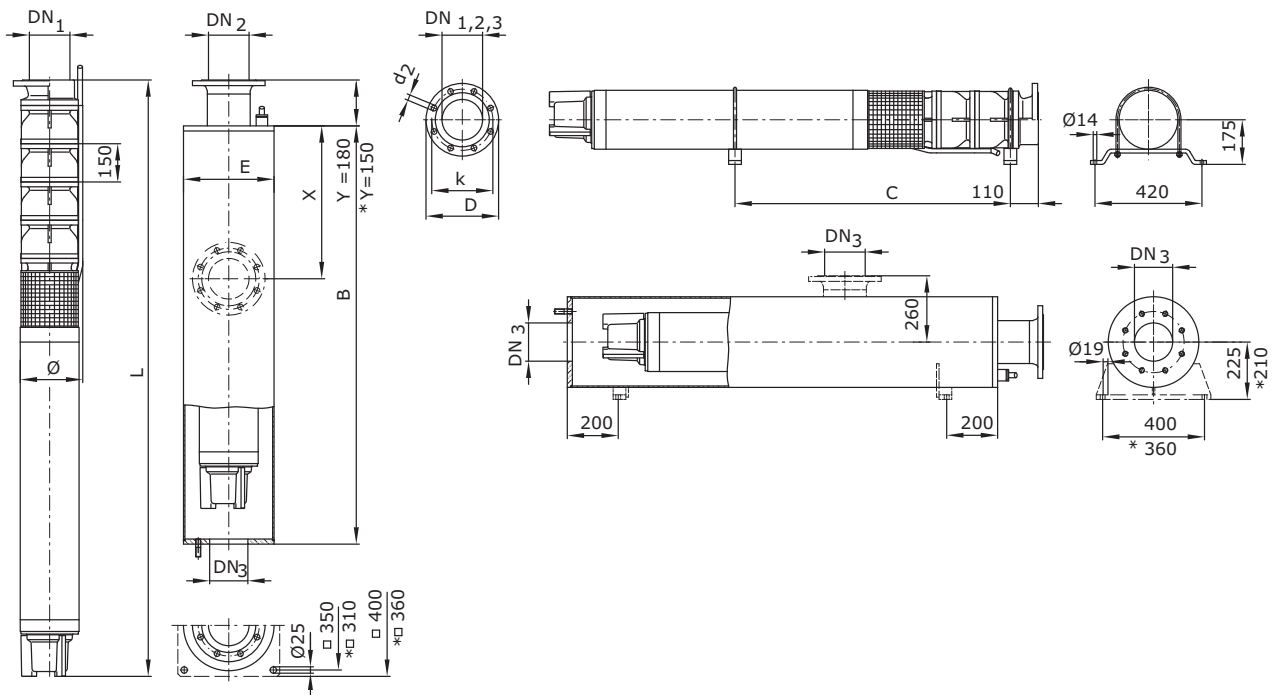
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. Ø with thread connection, ⁴⁾ -, ⁵⁾ -, ⁶⁾ -, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU K 105

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
K 105-1	NU 60-2/51	1620	880	*323.9	1447	237	133	105
K 105-1	NU 501-2/22	1600	860	*323.9	1424	238	130	103
K 105-2	NU 801-2/55	1990	1130	*323.9	1815	240	228	122
K 105-2	NU 501-2/45	2400	1340	*323.9	2241	240	215	142
K 105-3	NU 801-2/75	2340	-	*323.9	2165	246	284	140
K 105-3	NU 911-2/45	2250	1350	355.6	2080	249	348	154
K 105-3	NU 701-2/75	2390	-	*323.9	2215	240	317	142
K 105-4	NU 911-2/50	2450	1520	355.6	2280	249	369	163
K 105-4	NU 701-2/93	2890	1) ¹⁾	*323.9	2717	254	416	166
K 105-4	NU 811-2/90	2710	-	*323.9	2540	257	326	158
K 105-5	NU 911-2/60	1) ¹⁾	1720	1) ¹⁾	2530	249	416	1) ¹⁾
K 105-5	NU 701-2/110	1) ¹⁾	1) ¹⁾	1) ¹⁾	3096	254	480	1) ¹⁾
K 105-5	NU 811-2/95	1) ¹⁾	-	1) ¹⁾	2740	257	352	1) ¹⁾
K 105-6	NU 911-2/75	1) ¹⁾	-	1) ¹⁾	2830	249	476	1) ¹⁾
K 105-6	NU 701-2/130	1) ¹⁾	-	1) ¹⁾	3449	254	547	1) ¹⁾

Accessories Wilо-EMU K 105

Bearing brackets and anti-vortex plate

Wilо-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	1)	1)	1)
NU 501	–	1)	1)	1)
NU 8...	–	6 040 141	1)	1)
NU 911	–	1)	1)	1)

Cooling jacket pipes

Wilо-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	–	A	W	–	–	StVz	CrNi
	–	[mm]		–	[kg]	–	
K 105-1	NU 60-2/51	– 1)	– 1)	V	– 1)	– 1)	– 1)
K 105-1	NU 501-2/22	– 1)	– 1)	V	– 1)	– 1)	– 1)
K 105-2	NU 801-2/55	– 1)	– 1)	V	– 1)	– 1)	– 1)
K 105-2	NU 501-2/45	– 1)	– 1)	V	– 1)	– 1)	– 1)
K 105-3	NU 801-2/75	– 1)	– 1)	V	– 1)	– 1)	– 1)
K 105-3	NU 911-2/45	– 1)	– 1)	V	– 1)	– 1)	– 1)
K 105-3	NU 701-2/75	– 1)	– 1)	V	– 1)	– 1)	– 1)
K 105-4	NU 911-2/50	– 1)	– 1)	V	– 1)	– 1)	– 1)
K 105-4	NU 701-2/93	– 1)	– 1)	V	– 1)	– 1)	– 1)
K 105-4	NU 811-2/90	– 1)	– 1)	V	– 1)	– 1)	– 1)
K 105-5	NU 911-2/60	– 1)	– 1)	V	– 1)	– 1)	– 1)
K 105-5	NU 701-2/110	– 1)	– 1)	V	– 1)	– 1)	– 1)
K 105-5	NU 811-2/95	– 1)	– 1)	V	– 1)	– 1)	– 1)
K 105-6	NU 911-2/75	– 1)	– 1)	V	– 1)	– 1)	– 1)
K 105-6	NU 701-2/130	– 1)	– 1)	V	– 1)	– 1)	– 1)

Flange dimensions

Wilо-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 105...	DN 125	DN 125	DN 125	10-16	10-16	10	8x18	210	250
	DN 125	DN 125	–	25	25	–	8x26	220	270
	DN 150	DN 150	DN 150	10-16	10-16	10	8x22	240	285
	DN 150	DN 150	–	25	25	–	8x26	250	300
	R 6 I	–	–	10-25	–	–	–	–	–
	–	–	–	–	–	–	–	–	–

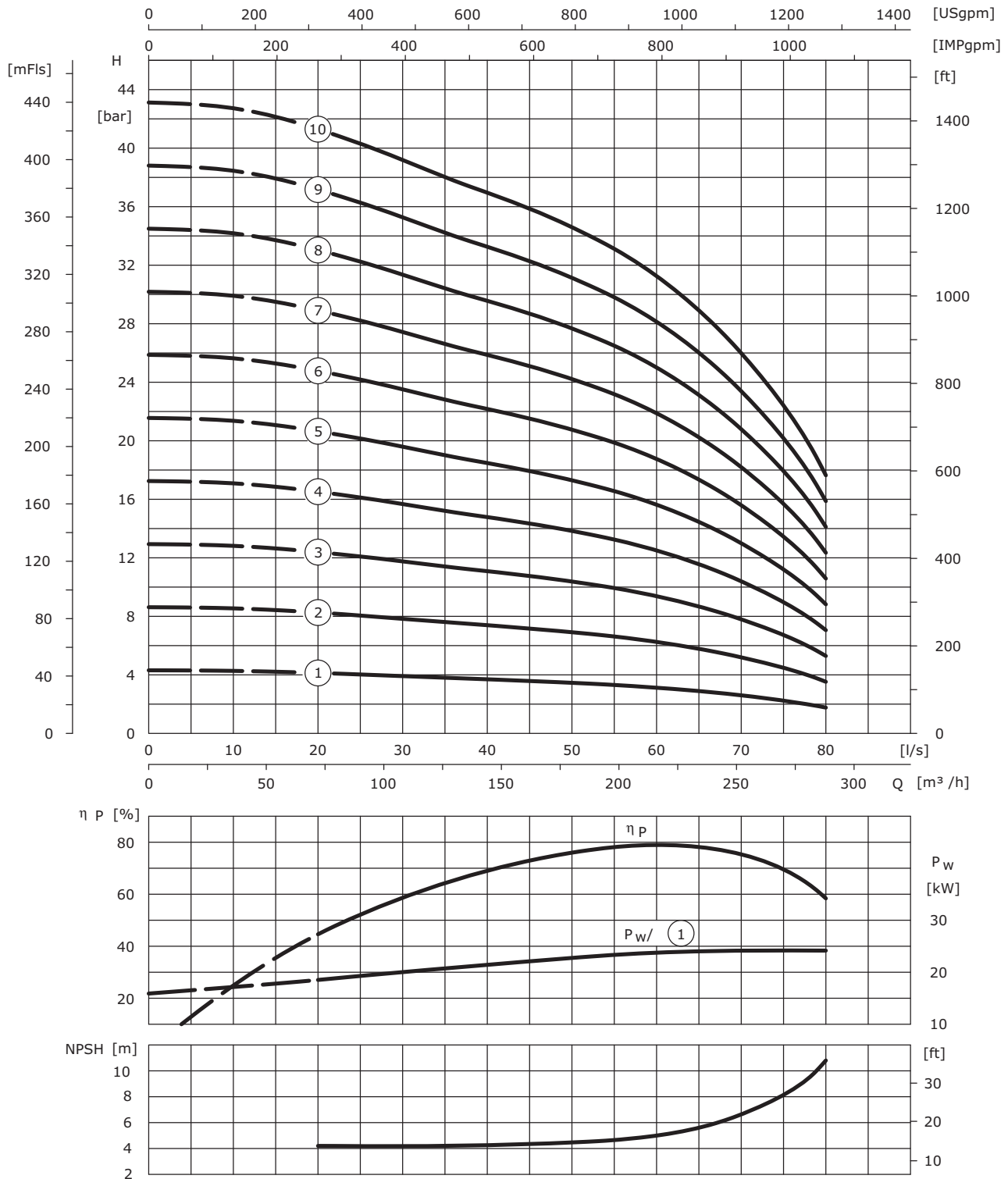
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with thread connection, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilco-EMU 10" series

Pump curves Wilco-EMU K 126, EMU K 126.1

Wilco-EMU K 126, EMU K 126.1



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 126, EMU K 126.1

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				-	P_2	I_N	P_W	
				[W]	[A]	[kW]	[A]	
K 126-1	1	A	NU 801-2/35	27.50	55	26	52	V+H
K 126-1	1	A	NU 701-2/30	30.00	61	26	54	V
K 126-2	2	A	NU 801-2/60	53.00	104	52	101	V+H
K 126-2	2	A	NU 701-2/55	55.00	108	52	99	V
K 126-3	3	A	NU 911-2/50	90.00	178	78	154	V+H
K 126-3	3	A	NU 701-2/93	93.00	190	78	162	V+H ¹⁾
K 126-3	3	A	NU 811-2/90	90.00	168	74	148	V
K 126-4	4	A	NU 911-2/60	115.00	235	104	210	V+H
K 126-4	4	A	NU 701-2/110	110.00	222	104	205	V+H ¹⁾
K 126-4	4	A	NU 811-2/95	110.00	209	98	189	V
K 126-5	5	A	NU 911-2/75	145.00	280	130	255	V+H
K 126-5	5	A	NU 701-2/130	130.00	252	130	252	V+H ¹⁾
K 126-6	6	A	NU 911-2/90	170.00	330	156	300	V+H
K 126.1-7	7	A	NU 911-2/100	190.00	370	179	355	V
K 126.1-8	8	A	NU 911-2/101	205.00	405	205	405	V
K 126.1-9	9	A	NU 122-2/90	240.00	460	231	445	V
K 126.1-10	10	A	NU 122-2/100	270.00	520	260	500	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. Ø	-	-	-	-	-
	[mm]	-	[bar]	[mm]		[kg]	-	-	-	-
K 126..., K126.1...	DN 150	-	10-16	175	385	23	V+H	1	6)	6)
	DN 150	-	25-40	175	300	25	V+H	1	6)	6)
	G 6	I	10-16	215	245	22	V+H	1	6)	6)
	G 6	I	25-40	215	245	22	V+H	1	6)	6)

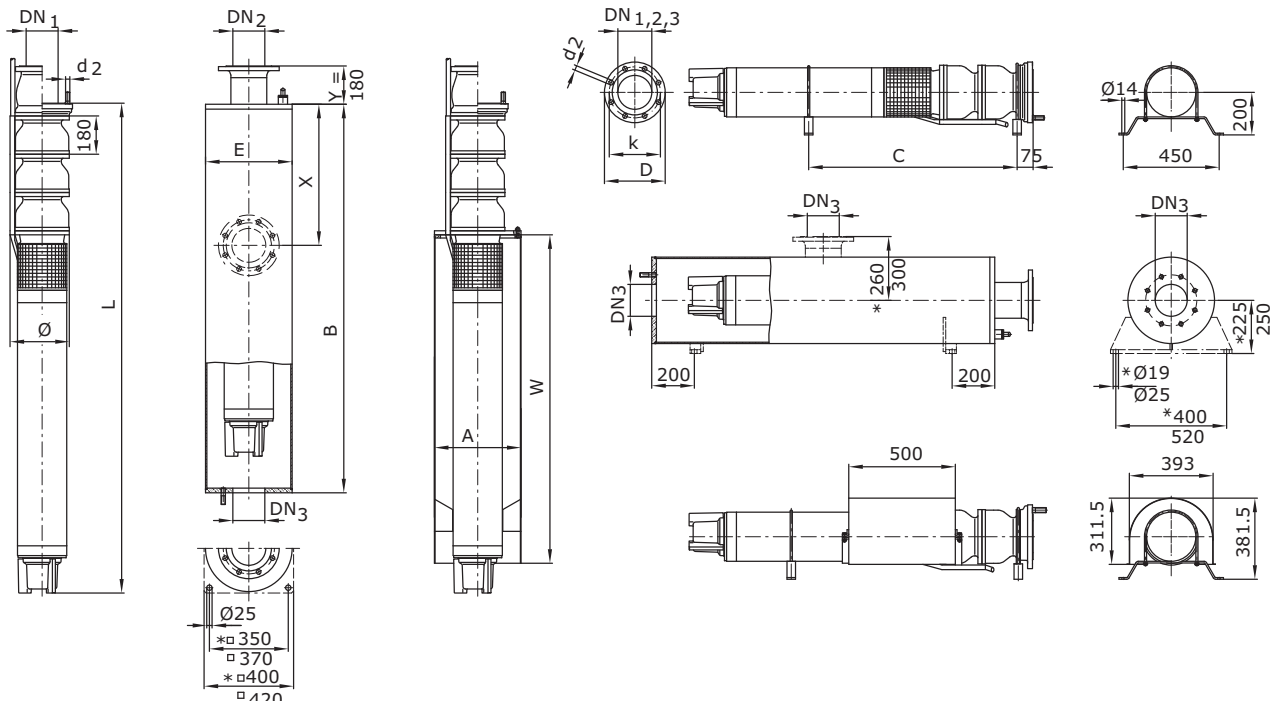
Pump w/o spring-mounted nrv, w. s.-m. nrv DN150 = L+175mm, G6 = L+215mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. Ø with connection with nrv G6, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU K 126, EMU K 126.1

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
K 126-1	NU 801-2/35	1580	920	*355.6	1465	270	185	121
K 126-1	NU 701-2/30	1560	-	*355.6	1445	270	191	120
K 126-2	NU 801-2/60	2010	1230	*355.6	1895	278	258	141
K 126-2	NU 701-2/55	2020	-	*355.6	1904	272	280	142
K 126-3	NU 911-2/50	2300	1470	406.4	2190	276	379	213
K 126-3	NU 701-2/93	2740	1) ¹⁾	*355.6	2627	281	426	177
K 126-3	NU 811-2/90	2560	-	*355.6	2450	303	336	168
K 126-4	NU 911-2/60	2580	1700	406.4	2470	276	435	230
K 126-4	NU 701-2/110	1) ¹⁾	1) ¹⁾	1) ¹⁾	3036	281	499	1) ¹⁾
K 126-4	NU 811-2/95	2790	-	*355.6	2680	303	374	179
K 126-5	NU 911-2/75	2910	1950	406.4	2800	276	504	251
K 126-5	NU 701-2/130	1) ¹⁾	1) ¹⁾	1) ¹⁾	3419	281	575	1) ¹⁾
K 126-6	NU 911-2/90	3240	2210	406.4	3130	281	573	271
K 126.1-7	NU 911-2/100	1) ¹⁾	-	1) ¹⁾	3410	286	629	1) ¹⁾
K 126.1-8	NU 911-2/101	1) ¹⁾	-	1) ¹⁾	2590	292	659	1) ¹⁾
K 126.1-9	NU 122-2/90	1) ¹⁾	-	1) ¹⁾	4030	303	940	1) ¹⁾
K 126.1-10	NU 122-2/100	1) ¹⁾	-	1) ¹⁾	4310	303	1000	1) ¹⁾

Accessories Wilo-EMU K 126, EMU K 126.1

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 8...	–	6 038 589	6 038 320	6 038 321
NU 911	–	1)	1)	1)
NU 122	–	1)	1)	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	–	A	W	–	–	StVz	CrNi
	–	[mm]	–	–	[kg]	–	
K 126-1	NU 801-2/35	406.4	1100	V	39	6 041 068	6 041 057
K 126-1	NU 701-2/30	406.4	1100	V	39	6 041 068	6 041 057
K 126-2	NU 801-2/60	406.4	1400	V	48	6 041 070	6 041 059
K 126-2	NU 701-2/55	406.4	1400	V	48	6 041 070	6 041 059
K 126-3	NU 911-2/50	406.4	1500	V	51	6 041 084	6 040 461
K 126-3	NU 701-2/93	406.4	1900	V	63	6 041 074	6 041 063
K 126-3	NU 811-2/90	406.4	1800	V	60	6 041 086	6 041 052
K 126-4	NU 911-2/60	406.4	1600	V	54	6 041 085	6 041 051
K 126-4	NU 701-2/110	406.4	2200	V	72	6 041 075	6 041 064
K 126-4	NU 811-2/95	406.4	1800	V	60	6 041 086	6 041 052
K 126-5	NU 911-2/75	406.4	1800	V	60	6 041 086	6 041 052
K 126-5	NU 701-2/130	406.4	2400	V	78	6 041 076	6 041 065
K 126-6	NU 911-2/90	406.4	1900	V	63	6 041 087	6 041 050
K 126.1-7	NU 911-2/100	406.4	2000	V	66	6 041 088	6 041 067
K 126.1-8	NU 911-2/101	406.4	2000	V	66	6 041 088	6 041 067
K 126.1-9	NU 122-2/90	406.4	2300	V	75	6 041 090	6 041 054
K 126.1-10	NU 122-2/100	406.4	2400	V	78	6 041 076	6 041 065

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 126..., K126.1...	DN 150	–	–	10-16	–	–	8xM20	240	285
	DN 150	–	–	25-40	–	–	8xM24	250	300
	DN 150	–	–	64	–	–	8xM30	280	345
	G 6 I	–	–	10-40	–	–	–	–	–
	DN 150 (RV)	DN 150	–	10-16	10-16	–	8x22	240	285
	DN 150 (RV)	DN 150	–	25-40	25-40	–	8x26	250	300
	–	–	DN 200	–	–	10	8x22	295	340
–	–	DN 250	–	–	10	12x22	350	395	

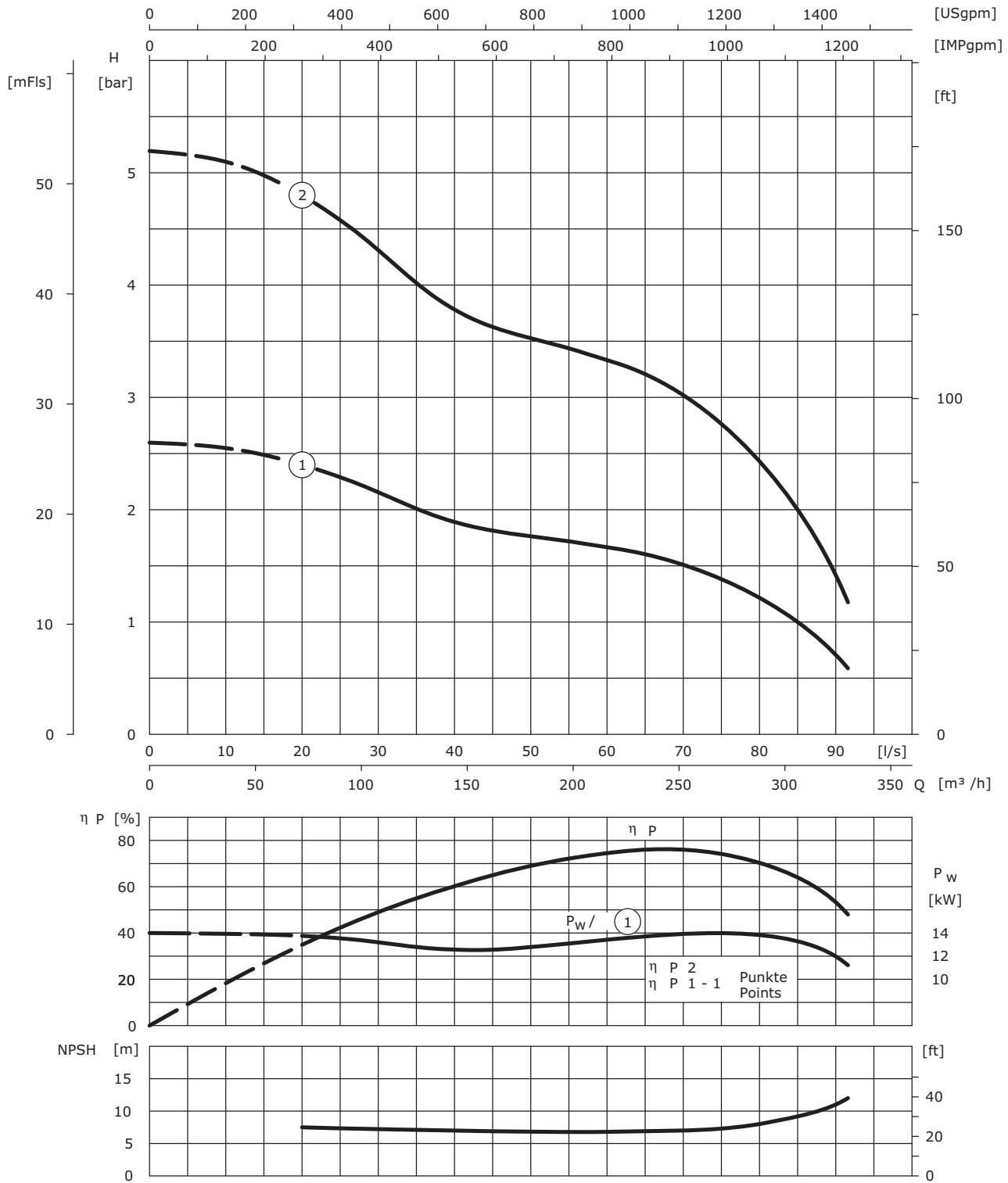
Pump w/o spring-mounted nrv, w. s.-m. nrv DN150 = L+175mm, G6 = L+215mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. ϕ with connection with nrv G6, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Pump curves Wilo-EMU SCH 200

Wilo-EMU SCH 200



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilо-EMU SCH 200

Technical data

Wilо-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				-	P_2	I_N	P_w	I
				[W]	[A]	[kW]	[A]	-
SCH 200-1	1	A	NU 60-2/40	15.50	32.50	14	30	V+H
SCH 200-1	1	A	NU 501-2/15	15.00	31.50	14	30	V+H
SCH 200-2	2	A	NU 601-2/74	30.00	67	30	67	V+H
SCH 200-2	2	A	NU 501-2/30	30.00	63.50	30	63.50	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilо-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN ₁	PN ₁						L	max. ϕ
											[mm]	[bar]
SCH 200...	DN 150	-	10-16	320	300	50,2	V+H	3	6 001 388	6 035 598		
	G 6	I	10-16	275	223	21.2	V+H	-	6 034 144	⁷⁾		

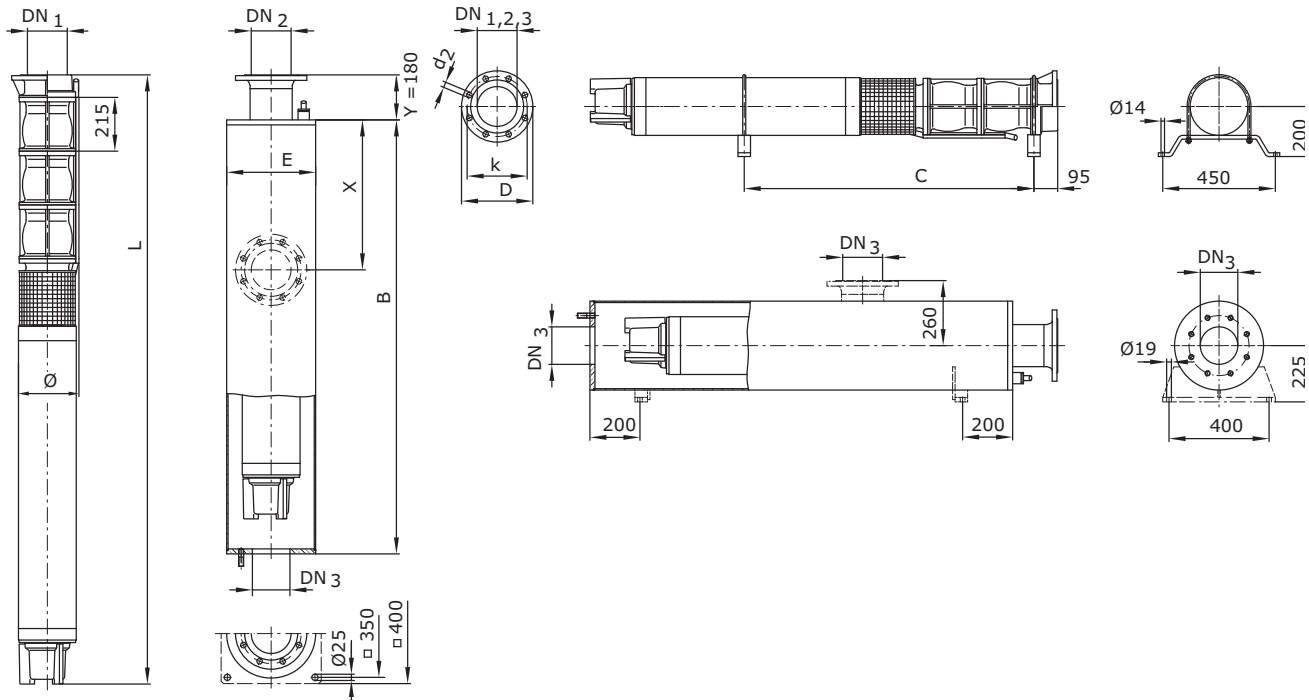
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection R6, ⁴⁾ -, ⁵⁾ -, ⁶⁾ -, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU SCH 200

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
SCH 200-1	NU 60-2/40	1580	900	355.6	1402	238	122	121
SCH 200-1	NU 501-2/15	1520	870	355.6	1348	238	116	117
SCH 200-2	NU 601-2/74	2130	1280	355.6	1957	238	184	149
SCH 200-2	NU 501-2/30	2000	1210	355.6	1824	238	167	142

Accessories Wilo-EMU SCH 200

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 6...	–	6 038 585	1)	1)
NU 501	–	6 038 585	1)	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	–	A	W	–	–	StVz	CrNi
	–	[mm]		–	[kg]	–	
SCH 200-1	NU 60-2/40	– ¹⁾	– ¹⁾	V	– ¹⁾	– ¹⁾	– ¹⁾
SCH 200-1	NU 501-2/15	– ¹⁾	– ¹⁾	V	– ¹⁾	– ¹⁾	– ¹⁾
SCH 200-2	NU 601-2/74	– ¹⁾	– ¹⁾	V	– ¹⁾	– ¹⁾	– ¹⁾
SCH 200-2	NU 501-2/30	– ¹⁾	– ¹⁾	V	– ¹⁾	– ¹⁾	– ¹⁾

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
SCH 200...	DN 150	DN 150	–	10-16	10-16	–	8x22	240	285
	R 6 l	–	–	10-16	–	–	–	–	–
	–	–	DN 200	–	–	10	8x22	295	340

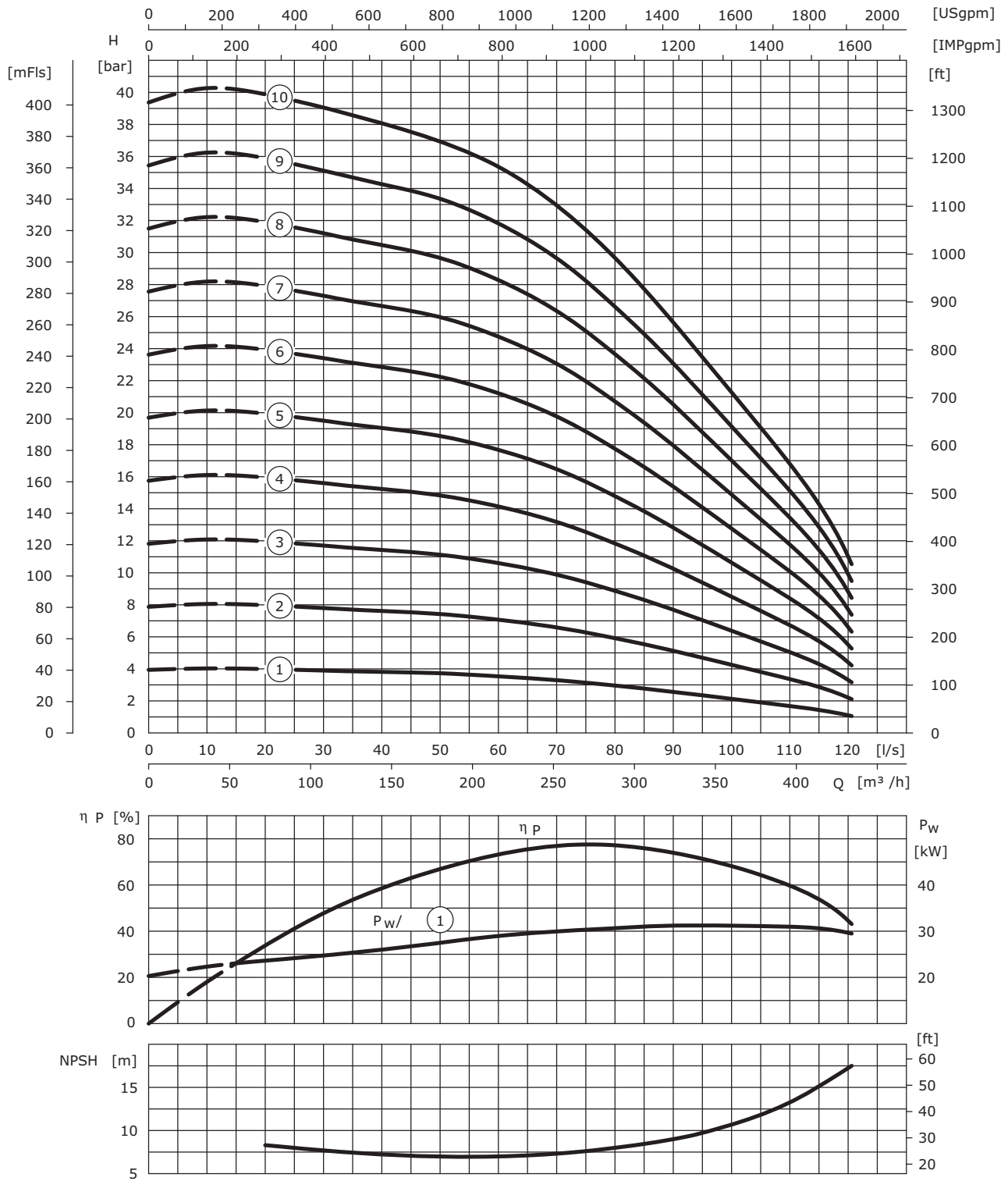
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with thread connection R6, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Pump curves Wilo-EMU K 127, EMU K 127.1

Wilo-EMU K 127, EMU K 127.1



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 127, EMU K 127.1

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.	
				–	P_2	I_N	P_W		I
				–	[W]	[A]	[kW]		[A]
K 127-1	1	A	NU 801-2/45	37.00	74	34	69	V+H	
K 127-1	1	A	NU 701-2/37	37.00	72	37	67	V	
K 127-2	2	A	NU 801-2/87	75.00	145	67	131	V	
K 127-2	2	A	NU 911-2/45	75.00	149	67	135	V+H	
K 127-2	2	A	NU 701-2/75	75.00	144	67	131	V	
K 127-3	3	A	NU 911-2/60	115.00	235	100	210	V+H	
K 127-3	3	A	NU 701-2/110	110.00	215	100	198	V+H ¹⁾	
K 127-3	3	A	NU 811-2/95	110.00	210	95	185	V	
K 127-4	4	A	NU 911-2/75	145.00	280	134	260	V+H	
K 127-4	4	A	NU 701-2/150	150.00	280	134	255	V+H ¹⁾	
K 127-5	5	A	NU 911-2/90	170.00	330	167	325	V+H	
K 127-6	6	A	NU 911-2/101	205.00	400	200	400	V	
K 127-6	6	A	NU 122-2/75	200.00	390	200	390	V+H	
K 127.1-7	7	A	NU 122-2/90	240.00	460	231	445	V	
K 127.1-8	8	A	NU 122-2/100	270.00	520	262	510	V	
K 127.1-9	9	A	NU 122-2/120	320.00	610	300	580	V	
K 127.1-10	10	A	NU 122-2/135	360.00	680	330	620	V	

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	–	PN ₁	L	max. Ø	–	–	–	–	–
	[mm]	–	[bar]	[mm]		[kg]	–	–	–	–
K 127... K 127.1...	DN 150	–	10-16	175	385	23	V+H	1	6)	6)
	DN 150	–	25-40	175	300	25	V+H	1	6)	6)
	G 6	I	10-16	215	245	22	V+H	1	6)	6)
	G 6	I	25-40	215	245	22	V+H	1	6)	6)

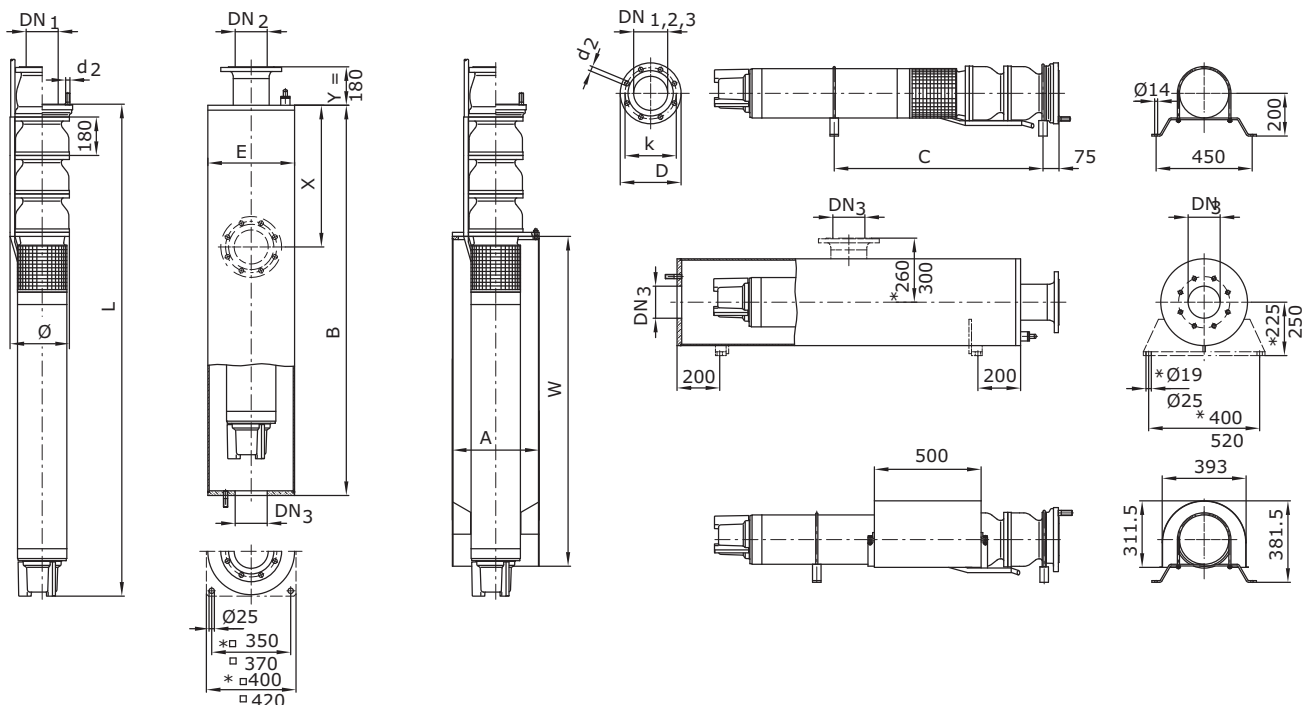
Pump w/o spring-mounted nrv, w. s.-m. nrv DN150 = L+175mm, G6 = L+215mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. Ø with connection with nrv G6, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU K 127, EMU K 127.1

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
K 127-1	NU 801-2/45	1680	960	*355.6	1565	270	202	125
K 127-1	NU 701-2/37	1640	-	*355.6	1521	270	206	123
K 127-2	NU 801-2/87	2280	-	*355.6	2165	278	305	155
K 127-2	NU 911-2/45	2070	1270	406.4	1960	278	349	198
K 127-2	NU 701-2/75	2210	-	*355.6	2095	278	318	154
K 127-3	NU 911-2/60	2400	1510	406.4	2290	278	405	219
K 127-3	NU 701-2/110	2970	¹⁾	*355.6	2856	278	469	187
K 127-3	NU 811-2/95	2610	-	*355.6	2500	278	344	170
K 127-4	NU 911-2/75	2730	1760	406.4	2620	278	474	239
K 127-4	NU 701-2/150	¹⁾	¹⁾	¹⁾	3468	278	594	¹⁾
K 127-5	NU 911-2/90	3060	2020	406.4	2950	281	543	259
K 127-6	NU 911-2/101	3340	-	406.4	3230	286	599	277
K 127-6	NU 122-2/75	3450	2300	406.4	3340	305	805	285
K 127.1-7	NU 122-2/90	¹⁾	-	¹⁾	3670	305	880	¹⁾
K 127.1-8	NU 122-2/100	¹⁾	-	¹⁾	3950	305	940	¹⁾
K 127.1-9	NU 122-2/120	¹⁾	-	¹⁾	4320	345	1030	¹⁾
K 127.1-10	NU 122-2/135	¹⁾	-	¹⁾	4660	345	1105	¹⁾

Accessories Wilo-EMU K 127, EMU K 127.1

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 8...	–	6 038 589	6 038 320	6 038 321
NU 911	–	1)	1)	1)
NU 122	–	1)	1)	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	–	A	W	–	–	StVz	CrNi
	–	[mm]	–	–	[kg]	–	
K 127-1	NU 801-2/45	406.4	1200	V	42	6 041 069	6 041 058
K 127-1	NU 701-2/37	406.4	1200	V	42	6 041 069	6 041 058
K 127-2	NU 801-2/87	406.4	1700	V	57	6 041 073	6 041 062
K 127-2	NU 911-2/45	406.4	1500	V	51	6 041 084	6 040 461
K 127-2	NU 701-2/75	406.4	1600	V	54	6 041 072	6 041 061
K 127-3	NU 911-2/60	406.4	1600	V	54	6 041 085	6 041 051
K 127-3	NU 701-2/110	406.4	2200	V	72	6 041 075	6 041 064
K 127-3	NU 811-2/95	406.4	1800	V	60	6 041 086	6 041 052
K 127-4	NU 911-2/75	406.4	1800	V	60	6 041 086	6 041 052
K 127-4	NU 701-2/150	406.4	2600	V	84	6 041 077	6 041 066
K 127-5	NU 911-2/90	406.4	1900	V	63	6 041 087	6 041 050
K 127-6	NU 911-2/101	406.4	2000	V	66	6 041 088	6 041 067
K 127-6	NU 122-2/75	406.4	2100	V	69	– ¹⁾	– ¹⁾
K 127.1-7	NU 122-2/90	406.4	2300	V	75	6 041 090	6 041 054
K 127.1-8	NU 122-2/100	406.4	2400	V	78	6 041 076	6 041 065
K 127.1-9	NU 122-2/120	406.4	2600	V	84	6 041 077	6 041 066
K 127.1-10	NU 122-2/135	406.4	2700	V	89	– ¹⁾	– ¹⁾

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 127... K 127.1...	DN 150	–	–	10-16	–	–	8xM20	240	285
	DN 150	–	–	25-40	–	–	8xM24	250	300
	DN 150	–	–	64	–	–	8xM30	280	345
	G 6 I	–	–	10-40	–	–	–	–	–
	DN 150 (RV)	DN 150	–	10-16	10-16	–	8x22	240	285
	DN 150 (RV)	DN 150	–	25-40	25-40	–	8x26	250	300
	–	–	DN 200	–	–	10	8x22	295	340
–	–	DN 250	–	–	10	12x22	350	395	

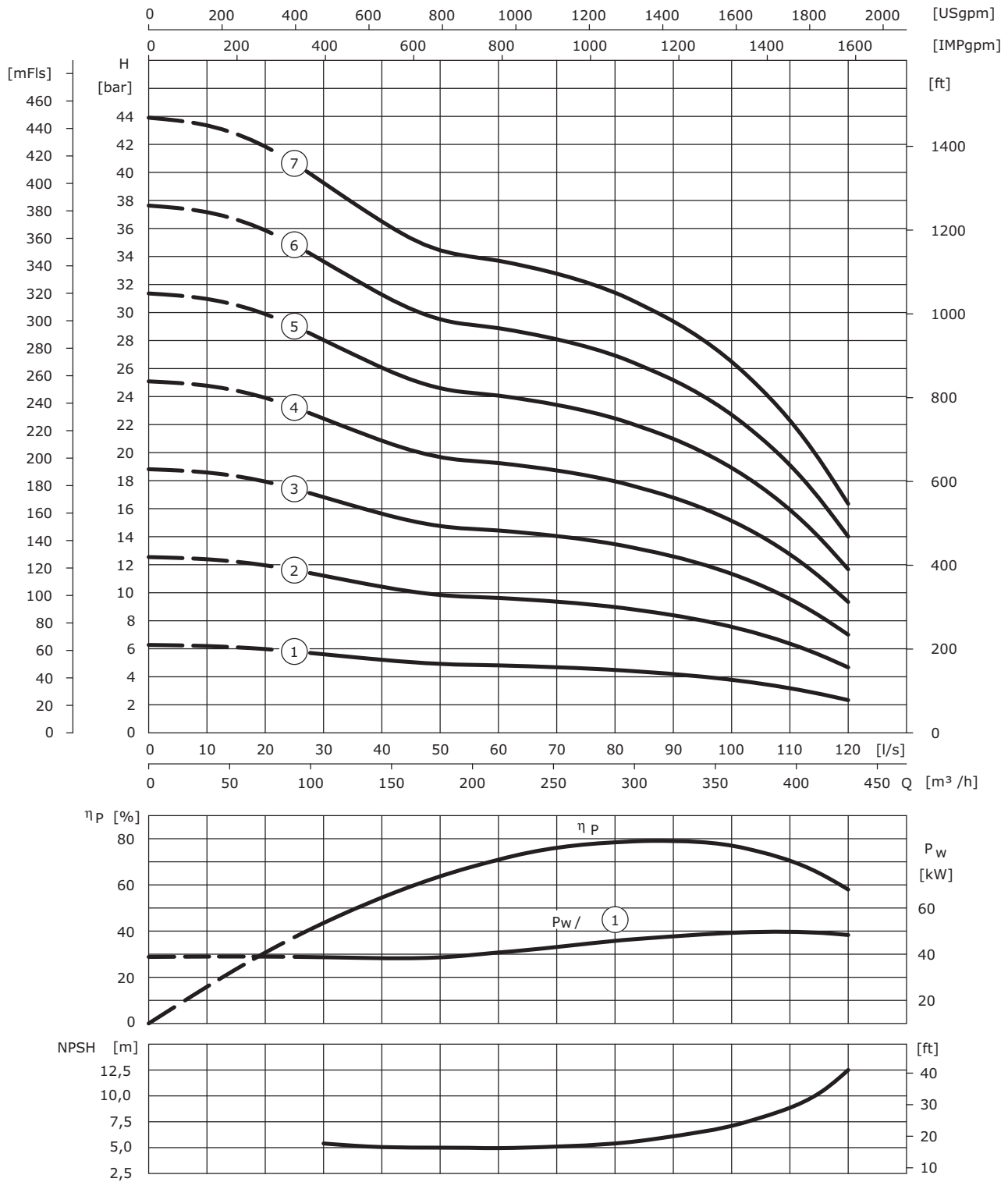
Pump w/o spring-mounted nrv, w. s.-m. nrv DN150 = L+175mm, G6 = L+215mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. ø with connection with nrv G6, ⁴⁾ –, ⁵⁾ –, ⁶⁾ At configurator selectable, ⁷⁾ –

Water Supply Municipal/Industrial

Wilо-EMU 10" series

Pump curves Wilо-EMU K 146, EMU K 146.1

Wilо-EMU K 146, EMU K 146.1



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 146, EMU K 146.1

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P ₂	I _N	P _W	I	-
				[W]	[A]	[kW]	[A]	-
K 146-1	1	A	NU 801-2/60	53.00	101	52	101	V
K 146-1	1	A	NU 701-2/55	55.00	108	54	102	V
K 146-2	2	A	NU 911-2/60	115.00	235	106	215	V+H
K 146-2	2	A	NU 701-2/110	110.00	222	106	210	V+H ¹⁾
K 146-2	2	A	NU 811-2/95	110.00	209	100	192	V
K 146-3	3	A	NU 911-2/90	170.00	330	159	305	V+H
K 146.1-4	4	A	NU 122-2/90	240.00	460	215	420	V
K 146.1-5	5	A	NU 122-2/100	270.00	520	268	520	V
K 146.1-6	6	A	NU 122-2/120	320.00	610	320	610	V
K 146.1-7	7	A	NU 122-2/135	360.00	680	360	680	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. Ø	-	-	-	-	-
	[mm]	-	[bar]	[mm]	[mm]	[kg]	-	-	-	-
K 146..., K 146.1...	DN 200	-	10	225	340	33	V+H	1	6)	6)
	DN 200	-	16	225	340	33	V+H	1	6)	6)
	DN 200	-	25	225	360	35	V+H	1	6)	6)
	DN 200	-	40	225	360	35	V+H	1	6)	6)

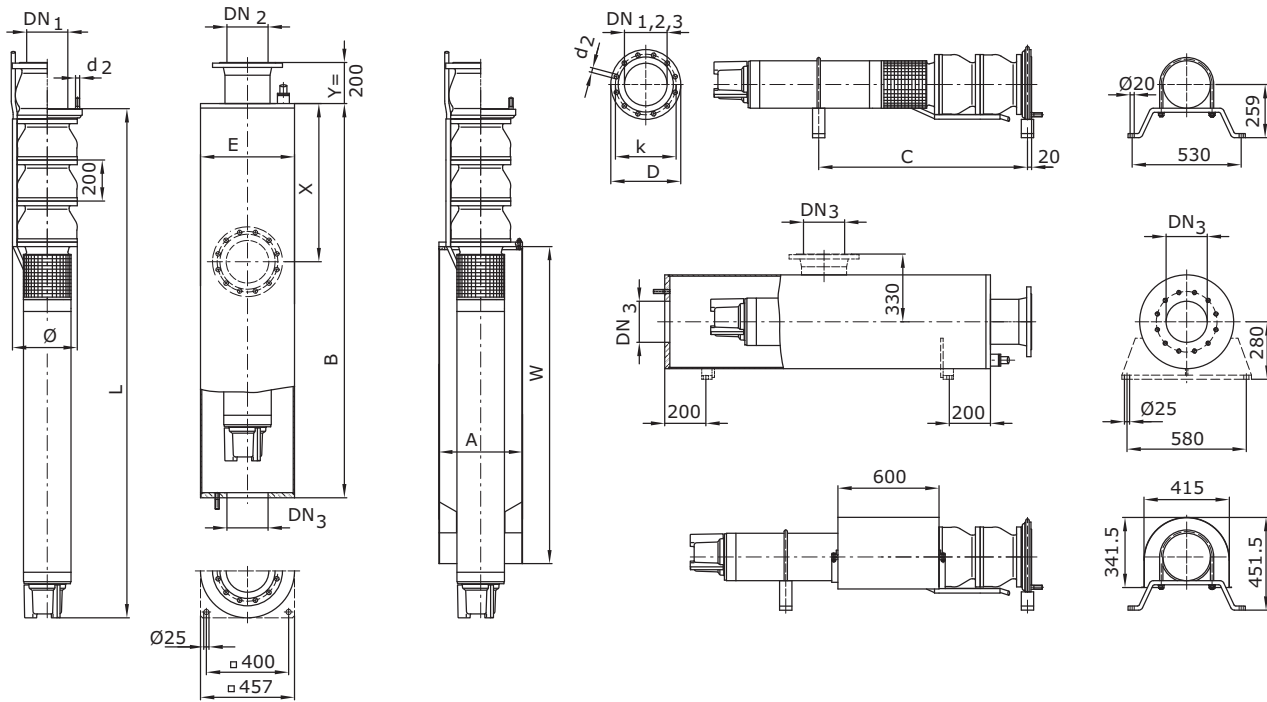
Pump w/o spring-mounted nrv, w. s.-m. nrv DN200=L+225mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. Ø with flange connection DN200, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU K 146, EMU K 146.1

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
							[mm]	
K 146-1	NU 801-2/60	1880	1110	457	1725	340	245	231
K 146-1	NU 701-2/55	1890	-	457	1734	340	267	232
K 146-2	NU 911-2/60	2290	1420	457	2140	340	403	260
K 146-2	NU 701-2/110	2860	¹⁾	457	2706	340	467	300
K 146-2	NU 811-2/95	2500	-	457	2350	350	342	275
K 146-3	NU 911-2/90	2790	1770	457	2640	340	522	295
K 146.1-4	NU 122-2/90	¹⁾	-	¹⁾	3200	362	839	¹⁾
K 146.1-5	NU 122-2/100	¹⁾	-	¹⁾	3500	375	910	¹⁾
K 146.1-6	NU 122-2/120	¹⁾	-	¹⁾	3900	435	1011	¹⁾
K 146.1-7	NU 122-2/135	¹⁾	-	¹⁾	4250	435	1097	¹⁾

Accessories Wilco-EMU K 146, EMU K 146.1

Bearing brackets and anti-vortex plate

Wilco-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 8...	-	6 038 591	6 017 197	1)
NU 911	-	6 038 592	6 017 282	1)
NU 122	-	1)	1)	1)

Cooling jacket pipes

Wilco-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	-	A	W	-	-	StVz	CrNi
	-	[mm]	[mm]	-	[kg]	-	
K 146-1	NU 801-2/60	406.4	1400	V	48	6 041 070	6 041 059
K 146-1	NU 701-2/55	406.4	1400	V	48	6 041 070	6 041 059
K 146-2	NU 911-2/60	406.4	1600	V	54	6 041 085	6 041 051
K 146-2	NU 701-2/110	406.4	2200	V	72	6 041 075	6 041 064
K 146-2	NU 811-2/95	406.4	1800	V	60	6 041 086	6 041 052
K 146-3	NU 911-2/90	406.4	1900	V	63	6 041 087	6 041 050
K 146.1-4	NU 122-2/90	406.4	2300	V	75	6 041 090	6 041 054
K 146.1-5	NU 122-2/100	406.4	2400	V	78	6 041 076	6 041 065
K 146.1-6	NU 122-2/120	406.4	2600	V	84	6 041 077	6 041 066
K 146.1-7	NU 122-2/135	406.4	2700	V	89	- 1)	- 1)

Flange dimensions

Wilco-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 146..., K 146.1...	DN 200	-	-	10	-	-	8xM20	295	340
	DN 200	-	-	16	-	-	12xM20	295	340
	DN 200	-	-	25	-	-	12xM24	310	360
	DN 200	-	-	40	-	-	12xM27	320	375
	DN 200 (RV)	DN 200	DN 200	10	10	10	8x22	295	340
	DN 200 (RV)	DN 200	-	16	16	-	12x22	295	340
	DN 200 (RV)	DN 200	-	25	25	-	12x26	310	360
	DN 200 (RV)	DN 200	-	40	40	-	12x30	320	375
	-	-	DN 250	-	-	10	12x22	350	395
	-	-	DN 300	-	-	10	12x22	400	445

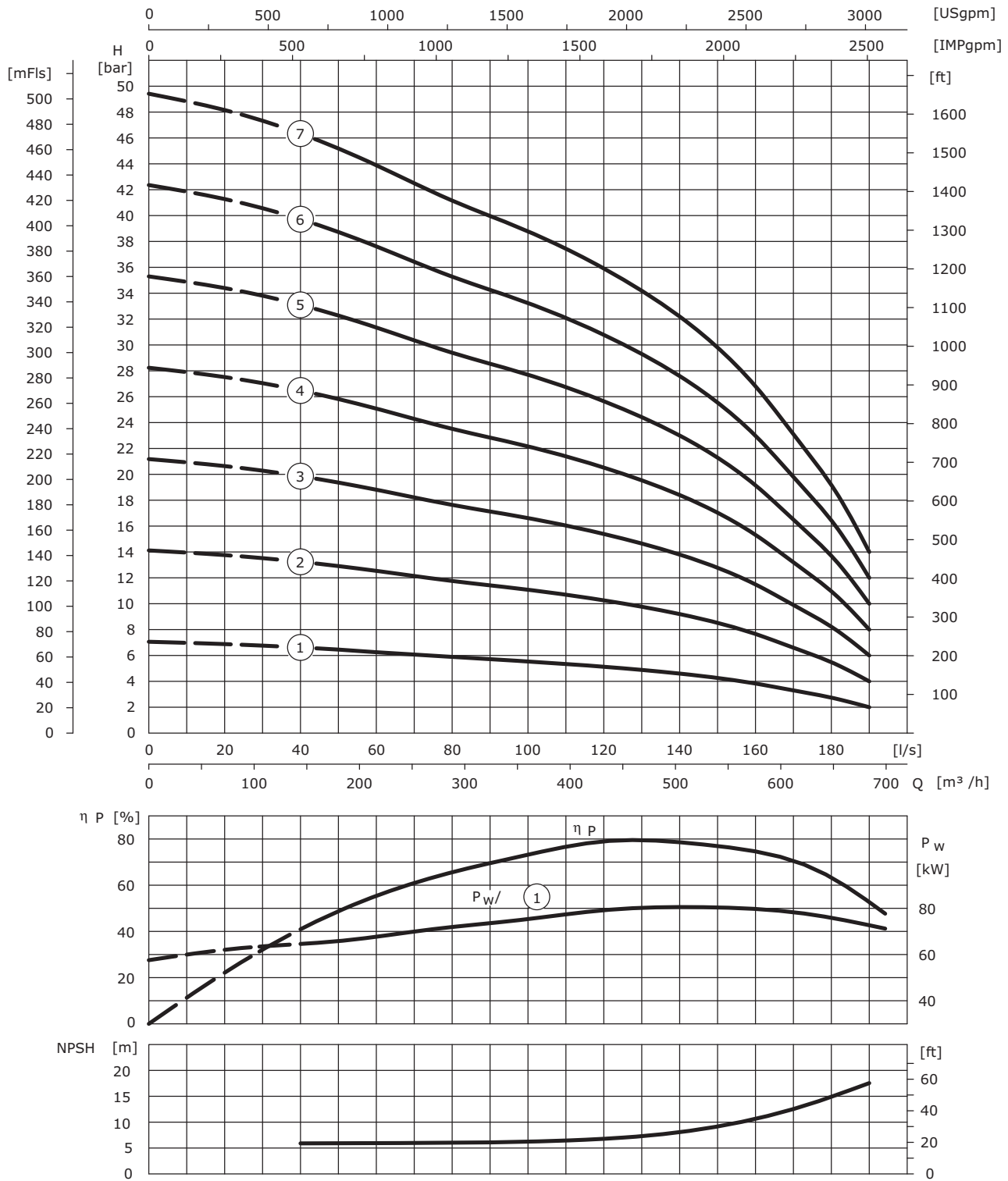
Pump w/o spring-mounted nrv, w. s.-m. nrv DN200=L+225mm, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN200, ⁴⁾ -, ⁵⁾ -, ⁶⁾ At configurator selectable, ⁷⁾ -

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Pump curves Wilo-EMU KM 13..

Wilo-EMU KM 13..



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU KM 13..

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				–	P_2	I_N	P_w	
				[W]	[A]	[kW]	[A]	
KM 1300-1	1	A	NU 911-2/50	90.00	178	88	174	V+H
KM 1300-1	1	A	NU 701-2/93	93.00	190	88	178	V+H ¹⁾
KM 1300-2	2	A	NU 911-2/90	170.00	330	170	330	V+H
KM 1301-3	3	A	NU 122-2/100	270.00	520	257	495	V
KM 1301-4	4	A	NU 122-2/135	360.00	680	340	640	V
KM 1302-5	5	A	U 175-2/100	450.00	830	425	790	V
KM 1302-6	6	A	U 175-2/110	510.00	950	510	950	V
KM 1302-7	7	A	U 175-2/121	650.00	970	600	890	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN ₁	PN ₁						L	max. Ø
				[mm]	[bar]						[mm]	[kg]
KM 13...	DN 200	–	10	370	340	85.6	V+H	3	6 001 191	6 031 202		
	DN 200	–	16	370	340	85.6	V+H	3	6 031 341	⁷⁾		
	DN 200	–	25	374	360	90,6	V+H	3	6 039 273	⁷⁾		
	DN 200	–	40	374	375	90,6	V+H	3	⁷⁾	6 001 622		
	DN 250	–	10	354	420	94	V+H	–	6 031 016	6 035 624		
	DN 250	–	16	345	405	90	V+H	–	6 042 884	⁷⁾		
	DN 250	–	25	⁷⁾	⁷⁾	⁷⁾	V+H	–	⁷⁾	⁷⁾		
	DN 250	–	40	345	450	95	V+H	–	6 033 068	⁷⁾		

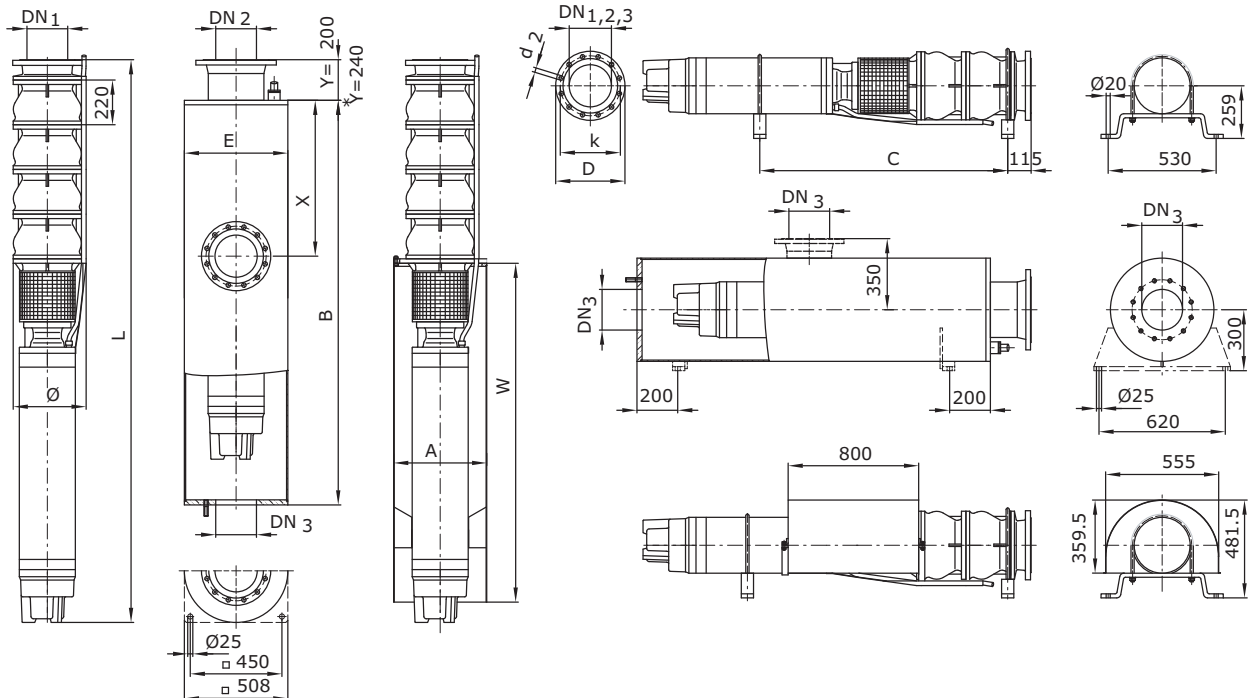
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. Ø with flange connection DN200, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU KM 13..

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
KM 1300-1	NU 911-2/50	2140	1180	508	1940	360	379	276
KM 1300-1	NU 701-2/93	2580	1) ¹⁾	508	2377	360	427	310
KM 1300-2	NU 911-2/90	2760	1600	508	2560	362	546	325
KM 1301-3	NU 122-2/100	1) ¹⁾	1) ¹⁾	1) ¹⁾	3240	374	914	1) ¹⁾
KM 1301-4	NU 122-2/135	1) ¹⁾	1) ¹⁾	1) ¹⁾	3810	397	1082	1) ¹⁾
KM 1302-5	U 175-2/100	1) ¹⁾	1) ¹⁾	1) ¹⁾	3933	435	1628	1) ¹⁾
KM 1302-6	U 175-2/110	1) ¹⁾	1) ¹⁾	1) ¹⁾	4260	505	1815	1) ¹⁾
KM 1302-7	U 175-2/121	1) ¹⁾	1) ¹⁾	1) ¹⁾	4580	505	1970	1) ¹⁾

Accessories Wilo-EMU KM 13..

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 8...	–	6 038 593	6 031 513	1)
NU 911	–	6 038 594	6 000 712	1)
NU 122	–	1)	1)	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	–	A	W	–	–	StVz	CrNi
	–	[mm]		–	[kg]	–	
KM 1300-1	NU 911-2/50	457	1500	V	58	6 041 363	6 041 368
KM 1300-1	NU 701-2/93	457	2000	V	76	6 041 364	6 041 369
KM 1300-2	NU 911-2/90	457	1900	V	73	– ¹⁾	– ¹⁾
KM 1301-3	NU 122-2/100	457	2400	V	90	6 041 367	6 041 438
KM 1301-4	NU 122-2/135	457	2700	V	101	– ¹⁾	– ¹⁾
KM 1302-5	U 175-2/100	– ¹⁾	– ¹⁾	V	– ¹⁾	– ¹⁾	– ¹⁾
KM 1302-6	U 175-2/110	– ¹⁾	– ¹⁾	V	– ¹⁾	– ¹⁾	– ¹⁾
KM 1302-7	U 175-2/121	– ¹⁾	– ¹⁾	V	– ¹⁾	– ¹⁾	– ¹⁾

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
KM 13...	DN 200	DN 200	DN 200	10	10	10	8x22	295	340
	DN 200	DN 200	–	16	16	–	12x22	295	340
	DN 200	DN 200	–	25	25	–	12x26	310	360
	DN 200	DN 200	–	40	40	–	12x30	320	375
	DN 200	–	–	64	–	–	12x36	345	415
	DN 250	DN 250	DN 250	10	10	10	12x22	350	395
	DN 250	DN 250	–	16	16	–	12x26	355	405
	DN 250	DN 250	–	25	25	–	12x30	370	425
	DN 250	–	–	40	–	–	12x33	385	450
	–	–	DN 300	–	–	10	12x22	400	445
	–	–	DN 350	–	–	10	16x22	460	505

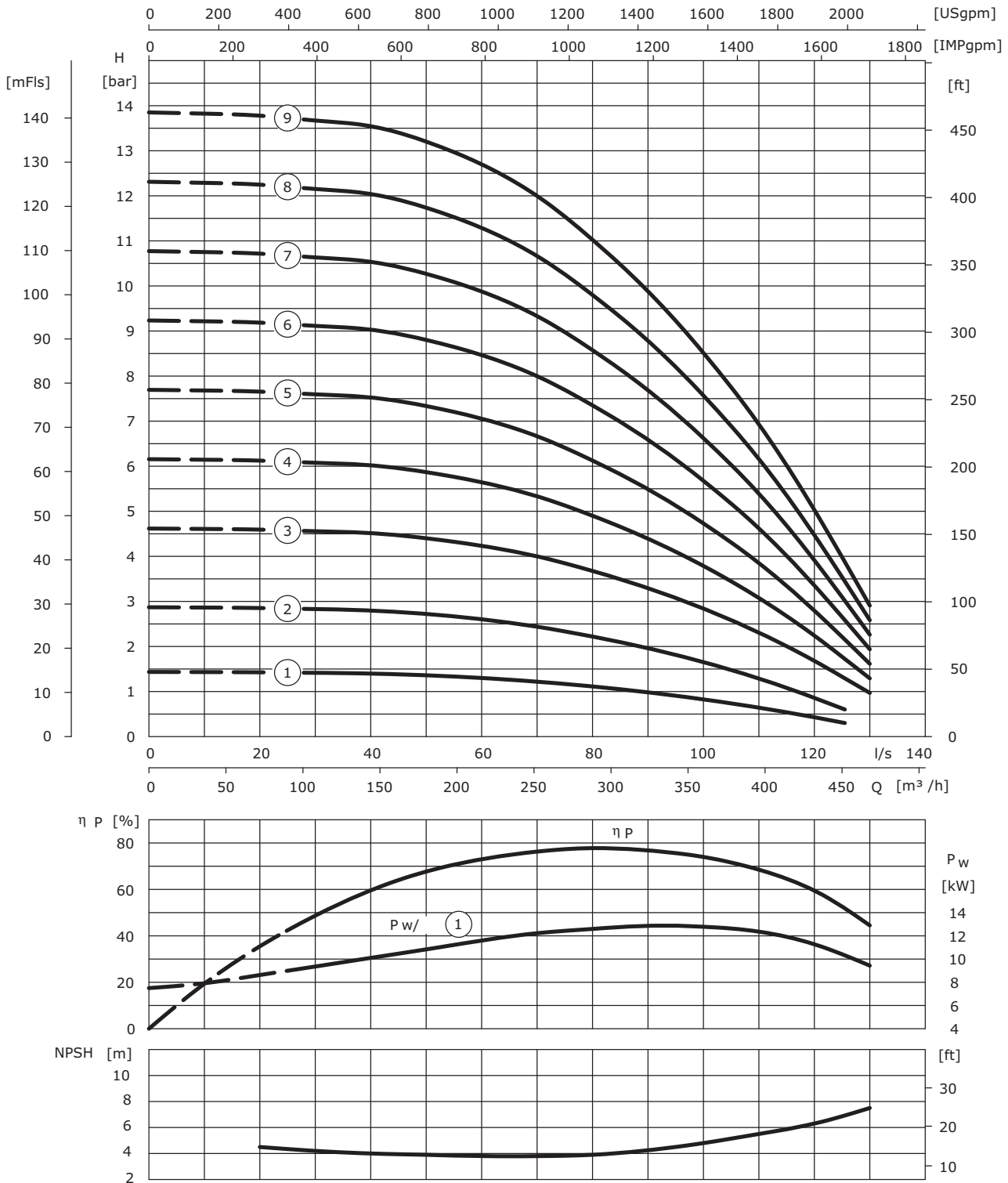
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN200, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilо-EMU 10" series

Pump curves Wilо-EMU D 200

Wilо-EMU D 200



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU D 200

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	
				[kW]	[A]	[kW]	[A]	
D 200-1	1	A	NU 801-4/35	14.00	35	12.5	31	V+H
D 200-2	2	A	NU 801-4/68	28.00	64	25.2	58	V
D 200-2	2	A	NU 911-4/50	45.00	114	27.3	71	V+H
D 200-3	3	A	NU 911-4/50	45.00	114	38	95	V+H
D 200-4	4	A	NU 911-4/60	56.00	144	50	126	V+H
D 200-5	5	A	NU 911-4/75	67.00	169	61	154	V+H
D 200-6	6	A	NU 911-4/90	78.00	197	73	185	V
D 200-7	7	A	NU 121-4/65	95.00	198	96	199	V
D 200-8	8	A	NU 121-4/75	111.00	235	110	230	V
D 200-9	9	A	NU 121-4/90	127.00	265	123	255	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN_1	–	PN_1	L	max. ϕ	–				
	[mm]	–	[bar]	[mm]		[kg]	–			
D 200...	DN 200	–	10	370	340	85.6	V+H	3	6 001 191	6 031 202
	DN 200	–	16	370	340	85.6	V+H	3	6 031 341	⁷⁾

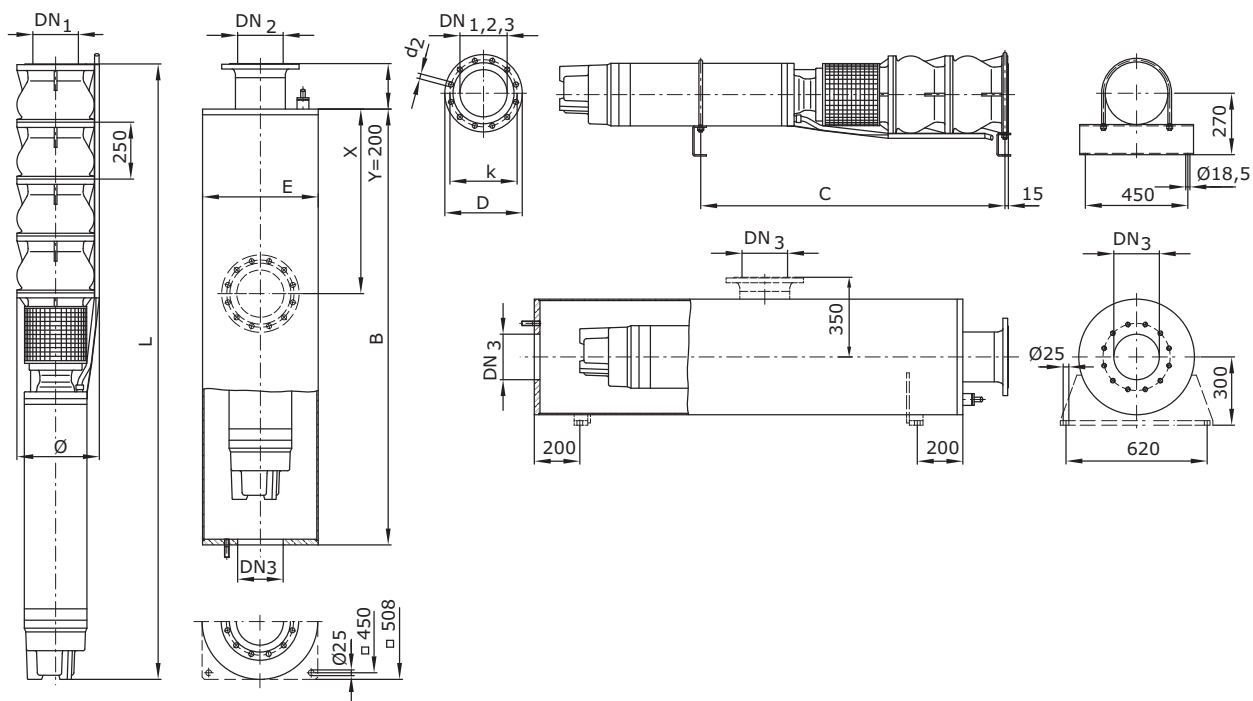
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN200, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU D 200

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
D 200-1	NU 801-4/35	1720	1020	508	1511	354	220	243
D 200-2	NU 801-4/68	2300	-	508	2091	357	351	288
D 200-2	NU 911-4/50	2330	1460	508	2126	361	428	292
D 200-3	NU 911-4/50	2580	1710	508	2376	361	501	311
D 200-4	NU 911-4/60	2930	2010	508	2726	361	601	338
D 200-5	NU 911-4/75	3330	2330	508	3126	364	713	368
D 200-6	NU 911-4/90	1)	-	1)	3526	364	826	1)
D 200-7	NU 121-4/65	1)	-	1)	3746	374	1049	1)
D 200-8	NU 121-4/75	1)	-	1)	4096	374	1158	1)
D 200-9	NU 121-4/90	1)	-	1)	4496	374	1286	1)

Accessories Wilо-EMU D 200

Bearing brackets and anti-vortex plate

Wilо-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 8...	–	¹⁾	¹⁾	¹⁾
NU 911	–	¹⁾	¹⁾	¹⁾
NU 12.	–	6 038 597	¹⁾	¹⁾

Cooling jacket pipes

Wilо-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	–	A	W	–	–	StVz	CrNi
	–	[mm]		–	[kg]	–	
D 200-1	NU 801-4/35	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
D 200-2	NU 801-4/68	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
D 200-2	NU 911-4/50	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
D 200-3	NU 911-4/50	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
D 200-4	NU 911-4/60	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
D 200-5	NU 911-4/75	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
D 200-6	NU 911-4/90	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
D 200-7	NU 121-4/65	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
D 200-8	NU 121-4/75	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾
D 200-9	NU 121-4/90	¹⁾	¹⁾	V	¹⁾	¹⁾	¹⁾

Flange dimensions

Wilо-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
D 200...	DN 200	DN 200	DN 200	10	10	10	8x22	295	340
	DN 200	DN 200	–	16	16	–	12x22	295	340
	–	–	DN 250	–	–	10	12x22	350	395
	–	–	DN 300	–	–	10	12x22	400	445

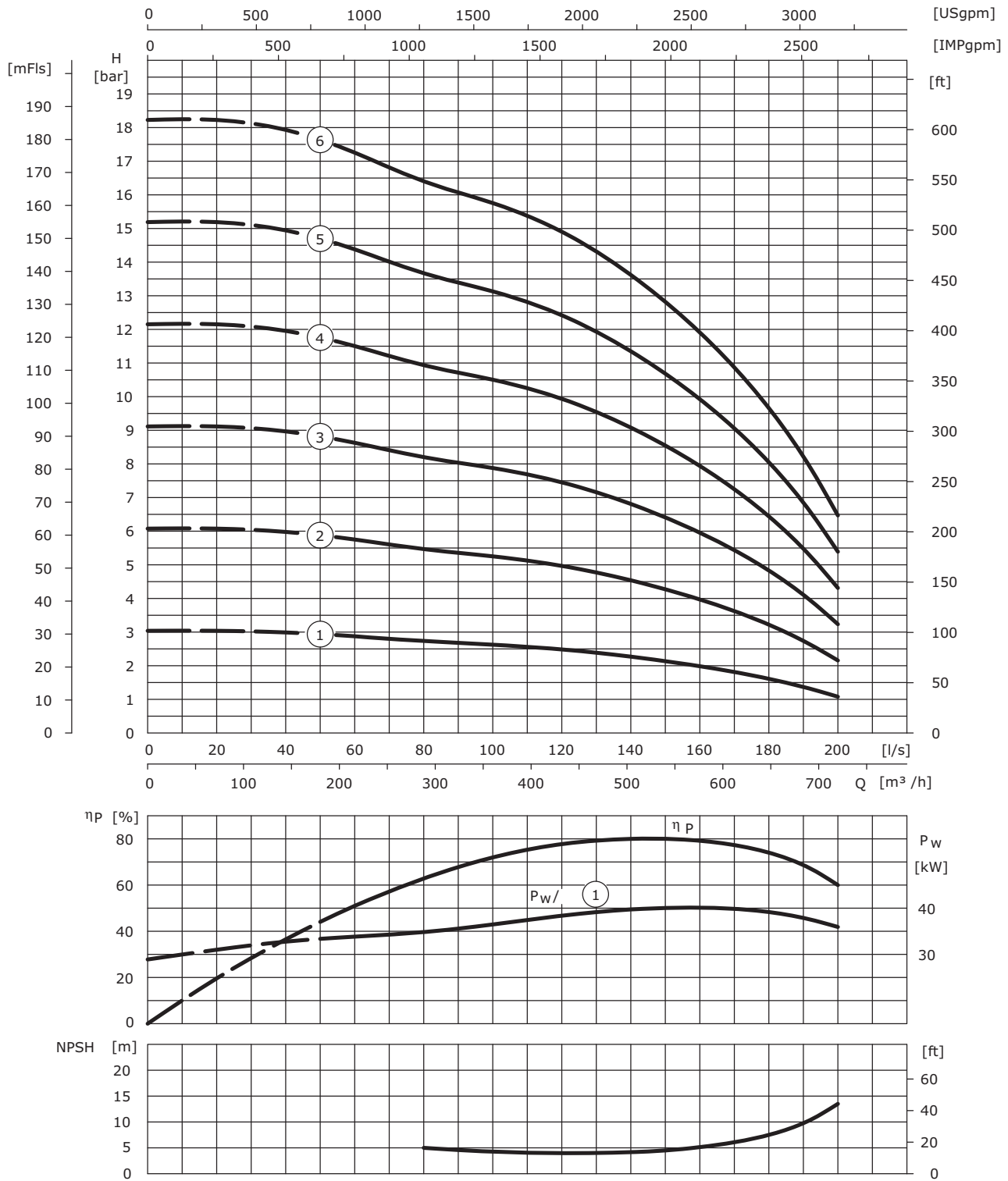
Pump without non-return valve. ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN200, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Pump curves Wilo-EMU D 500

Wilo-EMU D 500



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU D 500

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.		
				-	P_2	I_N	P_w		I	-
				-	[kW]	[A]	[kW]		[A]	-
D 500-1	1	A	NU 911-4/50	45.00	114	39	98	V+H		
D 500-2	2	A	NU 911-4/100	90.00	225	78	197	V		
D 500-2	2	A	NU 121-4/65	95.00	198	86	181	V+H		
D 500-3	3	A	NU 121-4/90	127.00	265	127	265	V+H		
D 500-4	4	A	U 156-4/74	175.00	350	171	340	V+H ¹⁾		
D 500-5	5	A	U 156-4/100	225.00	445	216	430	V		
D 500-6	6	A	U 156-4/120	275.00	560	258	530	V		

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN ₁	max. ϕ						-	
				[mm]	[mm]						[kg]	-
D 500...	DN 250	-	10	354	420	94	V+H	-	6 031 016	6 035 624		
	DN 250	-	16	345	405	90	V+H	-	6 042 884	⁷⁾		
	DN 250	-	25	⁷⁾	⁷⁾	⁷⁾	V+H	-	⁷⁾	⁷⁾		

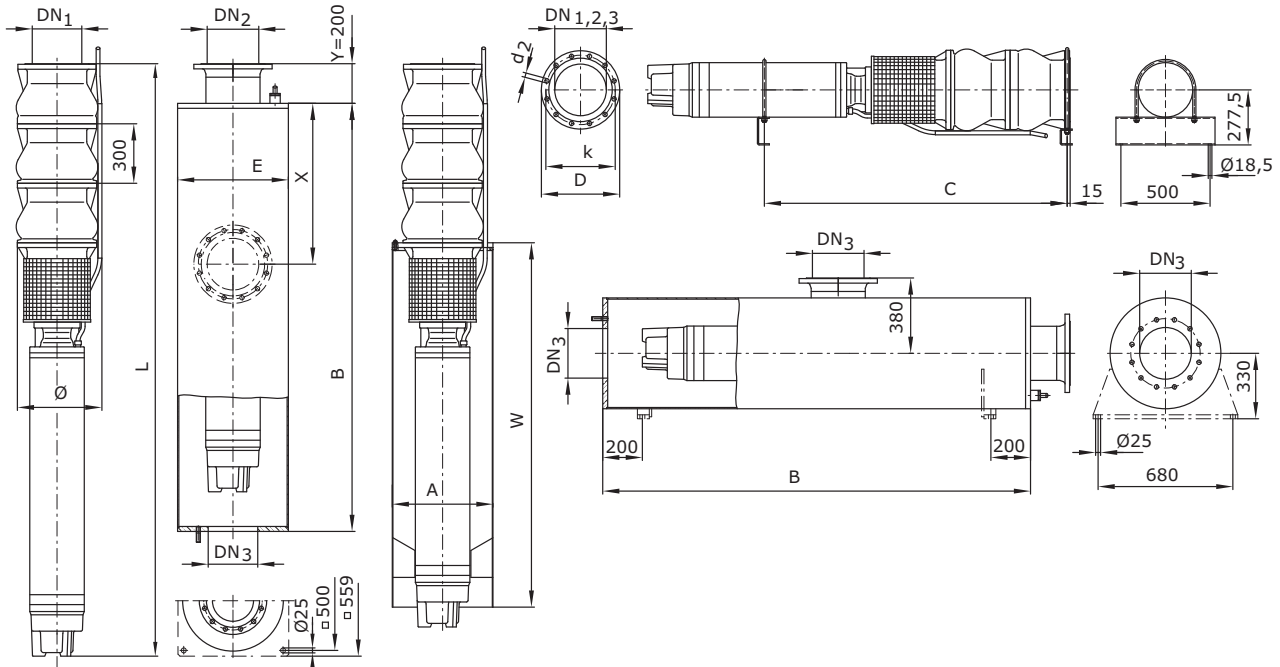
Pump without non-return valve. ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN250. ⁴⁾ -, ⁵⁾ -, ⁶⁾ -, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU D 500

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
D 500-1	NU 911-4/50	2270	1350	559	2013	432	434	336
D 500-2	NU 911-4/100	3070	-	559	2813	432	674	405
D 500-2	NU 121-4/65	2400	1840	559	2683	446	800	394
D 500-3	NU 121-4/90	3490	2260	559	3233	451	1000	441
D 500-4	U 156-4/74	1)	1)	1)	3402	451	1412	1)
D 500-5	U 156-4/100	1)	-	1)	3962	459	1709	1)
D 500-6	U 156-4/120	1)	-	1)	4470	470	1965	1)

Accessories Wilco-EMU D 500

Bearing brackets and anti-vortex plate

Wilco-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 911	-	1)	1)	1)
NU 12.	-	1)	1)	1)
U 15.	-	1)	1)	1)

Cooling jacket pipes

Wilco-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	-	A	W	-	-	StVz	CrNi
	-	[mm]	[mm]	-	[kg]	-	
D 500-1	NU 911-4/50	508	- 1)	V	- 1)	- 1)	- 1)
D 500-2	NU 911-4/100	508	- 1)	V	- 1)	- 1)	- 1)
D 500-2	NU 121-4/65	508	- 1)	V	- 1)	- 1)	- 1)
D 500-3	NU 121-4/90	508	- 1)	V	- 1)	- 1)	- 1)
D 500-4	U 156-4/74	- 1)	- 1)	V	- 1)	- 1)	- 1)
D 500-5	U 156-4/100	- 1)	- 1)	V	- 1)	- 1)	- 1)
D 500-6	U 156-4/120	- 1)	- 1)	V	- 1)	- 1)	- 1)

Flange dimensions

Wilco-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
D 500...	DN 250	DN 250	DN 250	10	10	10	12x22	350	395
	DN 250	DN 250	-	16	16	-	12x26	355	405
	DN 250	-	-	25	-	-	12x30	370	425
	-	-	DN 300	-	-	10	12x22	400	445
	-	-	DN 350	-	-	10	16x22	460	505
	-	-	DN 400	-	-	10	16x26	515	565

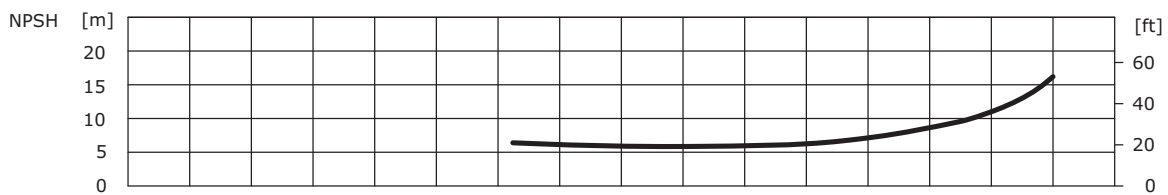
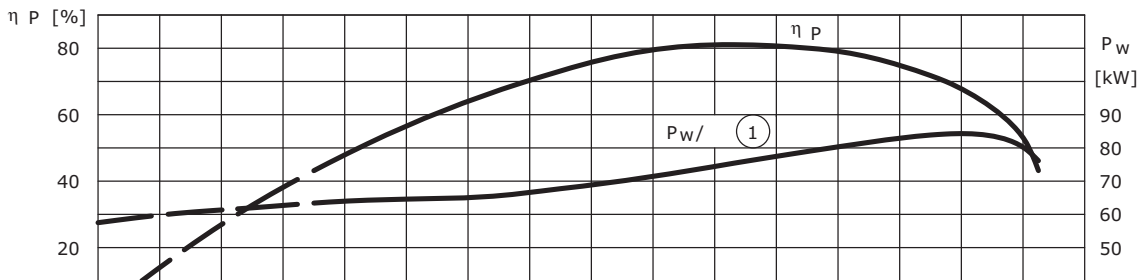
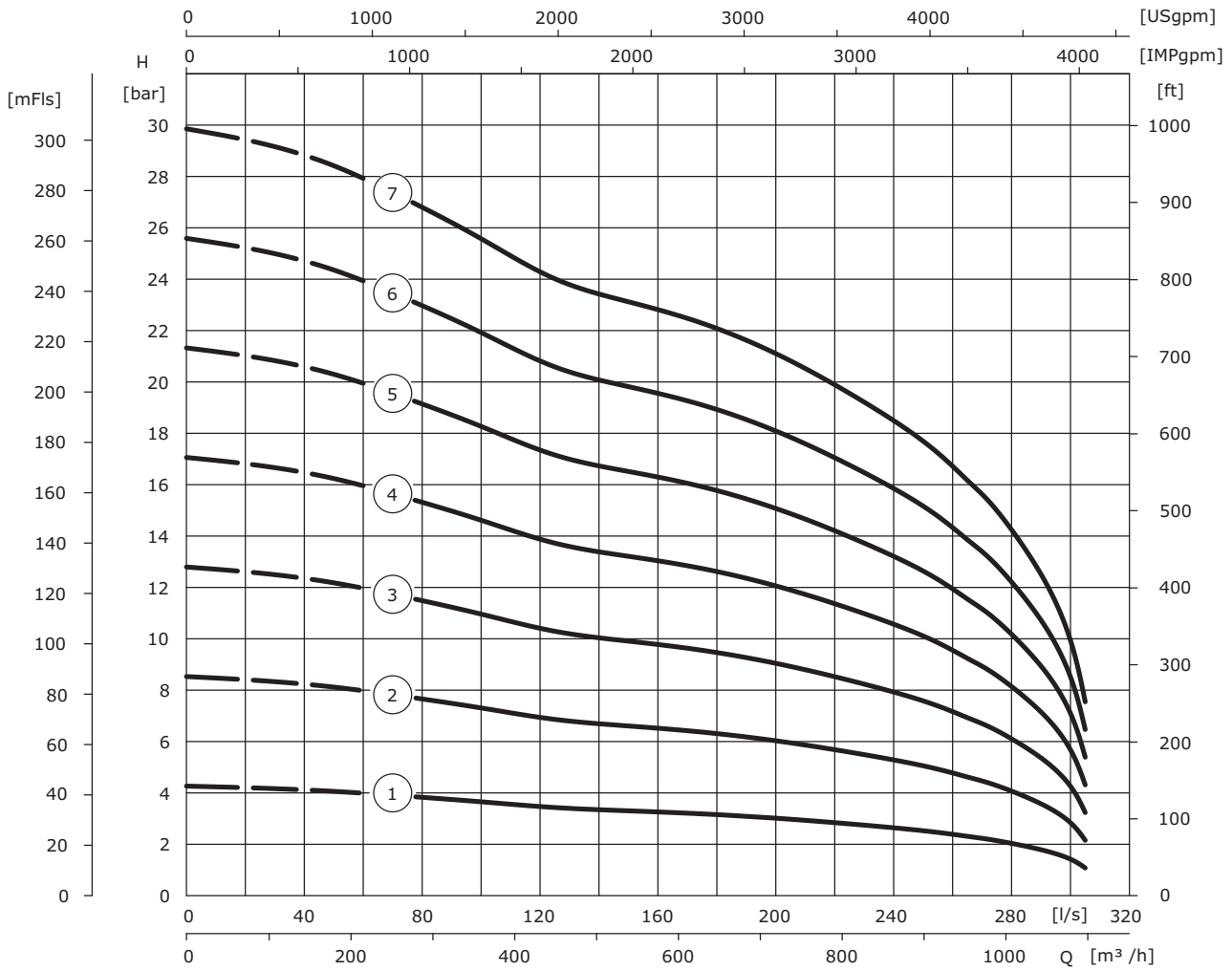
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN250, ⁴⁾ -, ⁵⁾ -, ⁶⁾ -, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilо-EMU 10" series

Pump curves Wilо-EMU K 221

Wilо-EMU K 221



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 221

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal cur- rent	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	
				[kW]	[A]	[kW]	[A]	
K 221-1	1	A	NU 911-4/100	90.00	225	80	205	V
K 221-1	1	A	NU 121-4/65	95.00	198	90	188	V+H
K 221-2	2	A	U 156-4/74	175.00	350	175	350	V+H
K 221-3	3	A	U 156-4/120	275.00	560	267	550	V
K 221-3	3	A	U 210-4/60	270.00	520	268	520	V+H
K 221-4	4	A	U 210-4/80	355.00	670	355	670	V+H
K 221-5	5	A	U 210-4/100	445.00	670	445	670	V
K 221-6	6	A	U 210-4/120	540.00	820	535	810	V
K 221-7	7	A	U 210-4/135	620.00	940	620	940	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN_1	–	PN_1	L	max. ϕ	–				
	[mm]	–	[bar]	[mm]		[kg]	–			
K 221...	DN 300	–	10	396	490	140	V+H	–	6 034 525	6 040 597
	DN 300	–	16	365	460	120	V+H	–	⁷⁾	6 039 125
	DN 300	–	25	⁷⁾	⁷⁾	⁷⁾	V	–	⁷⁾	⁷⁾
	DN 300	–	40	⁷⁾	⁷⁾	⁷⁾	V	–	⁷⁾	⁷⁾

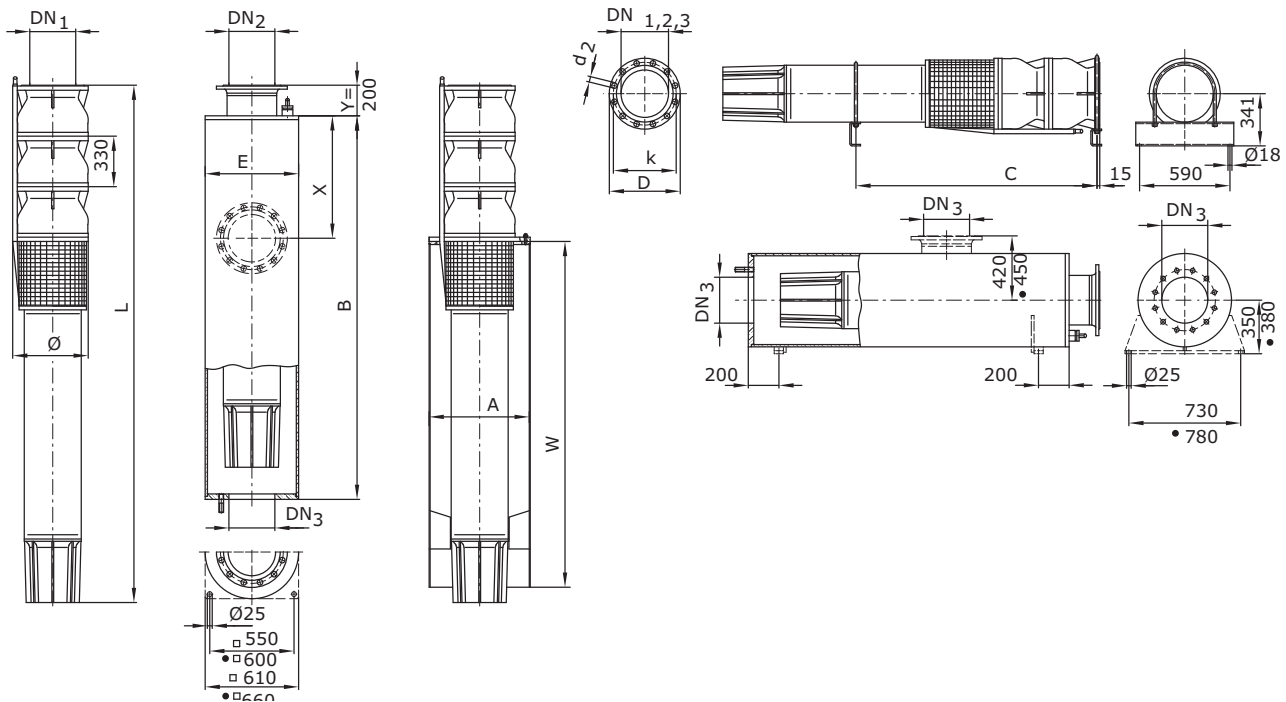
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN300, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU K 221

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
K 221-1	NU 911-4/100	2920	-	610	2618	497	663	444
K 221-1	NU 121-4/65	2790	1640	610	2488	497	784	433
K 221-2	U 156-4/74	3210	2010	610	2908	508	1327	472
K 221-3	U 156-4/120	4000	-	610	3698	510	1818	547
K 221-3	U 210-4/60	3880	2600	*660	3578	521	2490	635
K 221-4	U 210-4/80	4410	3030	*660	4108	521	2940	696
K 221-5	U 210-4/100	1)	-	1)	4638	544	3390	1)
K 221-6	U 210-4/120	1)	-	1)	5168	550	3840	1)
K 221-7	U 210-4/135	1)	-	1)	5648	590	4235	1)

Accessories Wilco-EMU K 221

Bearing brackets and anti-vortex plate

Wilco-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 911	-	¹⁾	¹⁾	¹⁾
NU 12.	-	¹⁾	¹⁾	¹⁾
U 15.	-	¹⁾	¹⁾	¹⁾
U 21.	-	¹⁾	¹⁾	¹⁾

Cooling jacket pipes

Wilco-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	-	A	W	-	-	StVz	CrNi
	-	[mm]		-	[kg]	-	
K 221-1	NU 911-4/100	- ¹⁾	- ¹⁾	V	- ¹⁾	- ¹⁾	- ¹⁾
K 221-1	NU 121-4/65	- ¹⁾	- ¹⁾	V	- ¹⁾	- ¹⁾	- ¹⁾
K 221-2	U 156-4/74	- ¹⁾	- ¹⁾	V	- ¹⁾	- ¹⁾	- ¹⁾
K 221-3	U 156-4/120	- ¹⁾	- ¹⁾	V	- ¹⁾	- ¹⁾	- ¹⁾
K 221-3	U 210-4/60	- ¹⁾	- ¹⁾	V	- ¹⁾	- ¹⁾	- ¹⁾
K 221-4	U 210-4/80	- ¹⁾	- ¹⁾	V	- ¹⁾	- ¹⁾	- ¹⁾
K 221-5	U 210-4/100	- ¹⁾	- ¹⁾	V	- ¹⁾	- ¹⁾	- ¹⁾
K 221-6	U 210-4/120	- ¹⁾	- ¹⁾	V	- ¹⁾	- ¹⁾	- ¹⁾
K 221-7	U 210-4/135	- ¹⁾	- ¹⁾	V	- ¹⁾	- ¹⁾	- ¹⁾

Flange dimensions

Wilco-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 221...	DN 300	DN 300	DN 300	10	10	10	12x22	400	445
	DN 300	DN 300	-	16	16	-	12x26	410	460
	DN 300	-	-	25	-	-	16x30	430	485
	DN 300	-	-	40	-	-	16x33	450	515
	-	-	DN 350	-	-	10	16x22	460	505
	-	-	DN 400	-	-	10	16x26	515	565

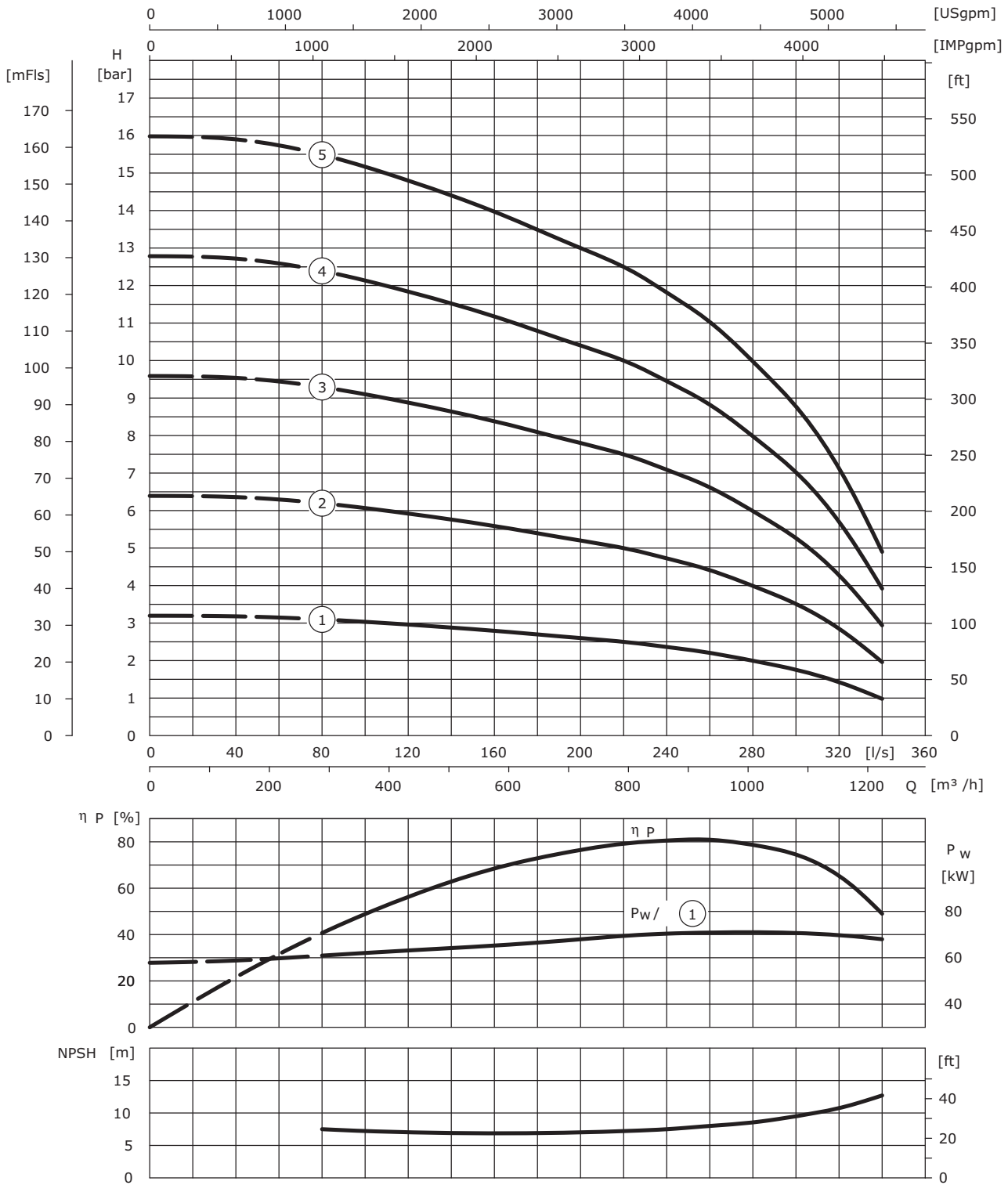
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with flange connection DN300, ⁴⁾ -, ⁵⁾ -, ⁶⁾ -, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Pump curves Wilo-EMU DCH 980

Wilo-EMU DCH 980



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU DCH 980

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal cur- rent	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2 [kW]	I_N [A]	P_w [kW]	I [A]	
DCH 980-1	1	A	NU 911-4/90	78.00	197	69	177	V+H
DCH 980-2	2	A	NU 121-4/110	159.00	325	150	305	V
DCH 980-2	2	A	U 156-4/64	160.00	320	150	305	V+H
DCH 980-3	3	A	U 156-4/100	225.00	445	225	445	V+H
DCH 980-4	4	A	U 156-4/135	310.00	610	305	600	V
DCH 980-5	5	A	U 210-4/90	400.00	610	375	570	V

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN_1	PN_1						L	max. ϕ
				[mm]	[bar]						[mm]	[mm]
DCH 980...	DN 300	-	10	396	490	140	V+H	-	6 034 525	6 040 597		
	DN 300	-	16	365	460	120	V+H	-	⁷⁾	6 039 125		
	DN 350	-	10	473	586	225	V+H	-	⁷⁾	6 035 687		
	DN 350	-	16	473	586	225	V+H	-	6 031 224	6 040 817		

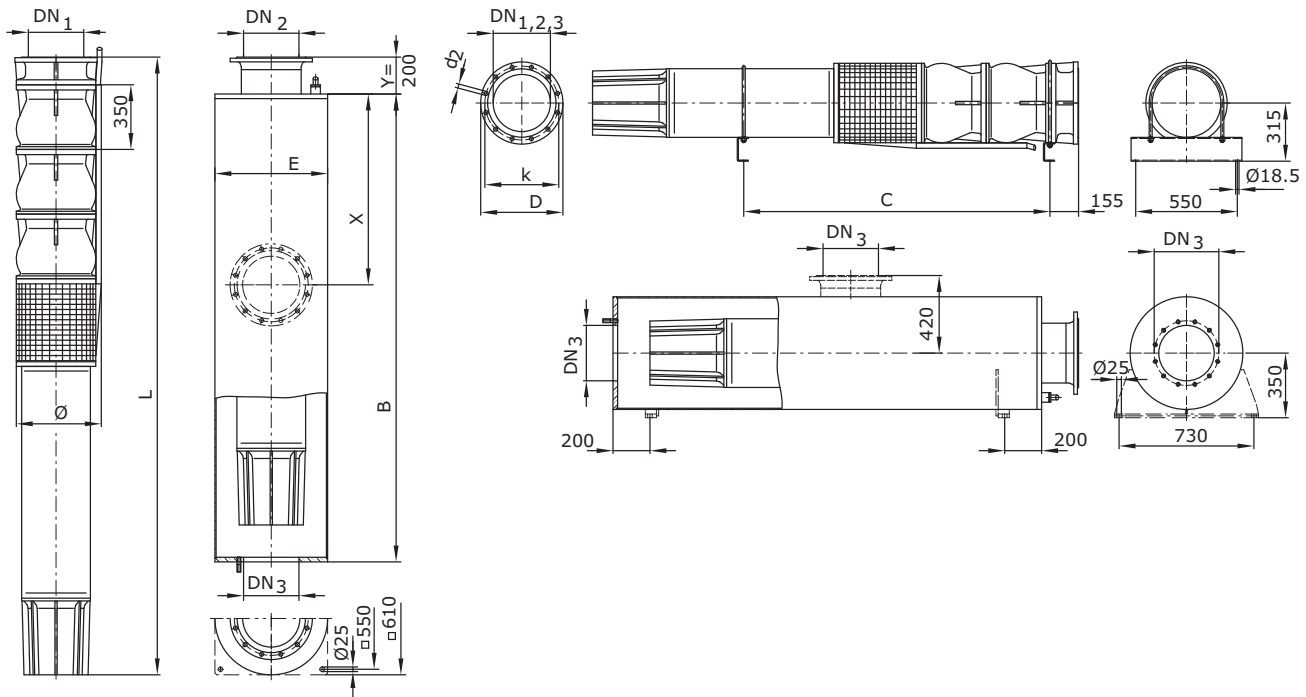
Pump without non-return valve. ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN300, ⁴⁾ -, ⁵⁾ -, ⁶⁾ -, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU DCH 980

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
DCH 980-1	NU 911-4/90	2990	1680	610	2685	490	733	452
DCH 980-2	NU 121-4/110	3760	-	610	3455	509	1227	524
DCH 980-2	U 156-4/64	3300	2010	610	2995	509	1371	481
DCH 980-3	U 156-4/100	4010	2540	610	3705	515	1814	549
DCH 980-4	U 156-4/135	1)	-	1)	4405	515	2284	1)
DCH 980-5	U 210-4/90	1)	-	1)	4785	523	3426	1)

Accessories Wilo-EMU DCH 980

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 911	–	1)	1)	1)
NU 12.	–	1)	1)	1)
U 15.	–	1)	1)	1)
U 21.	–	1)	1)	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	–	A	W	–	–	StVz	CrNi
	–	[mm]		–	[kg]	–	
DCH 980-1	NU 911-4/90	– 1)	– 1)	V	– 1)	– 1)	– 1)
DCH 980-2	NU 121-4/110	– 1)	– 1)	V	– 1)	– 1)	– 1)
DCH 980-2	U 156-4/64	– 1)	– 1)	V	– 1)	– 1)	– 1)
DCH 980-3	U 156-4/100	– 1)	– 1)	V	– 1)	– 1)	– 1)
DCH 980-4	U 156-4/135	– 1)	– 1)	V	– 1)	– 1)	– 1)
DCH 980-5	U 210-4/90	– 1)	– 1)	V	– 1)	– 1)	– 1)

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
DCH 980...	DN 300	DN 300	DN 300	10	10	10	12x22	400	445
	DN 300	DN 300	–	16	16	–	12x26	410	460
	DN 350	DN 350	DN 350	10	10	10	16x22	460	505
	DN 350	DN 350	–	16	16	–	16x26	470	520
	–	–	DN 400	–	–	10	16x26	515	565

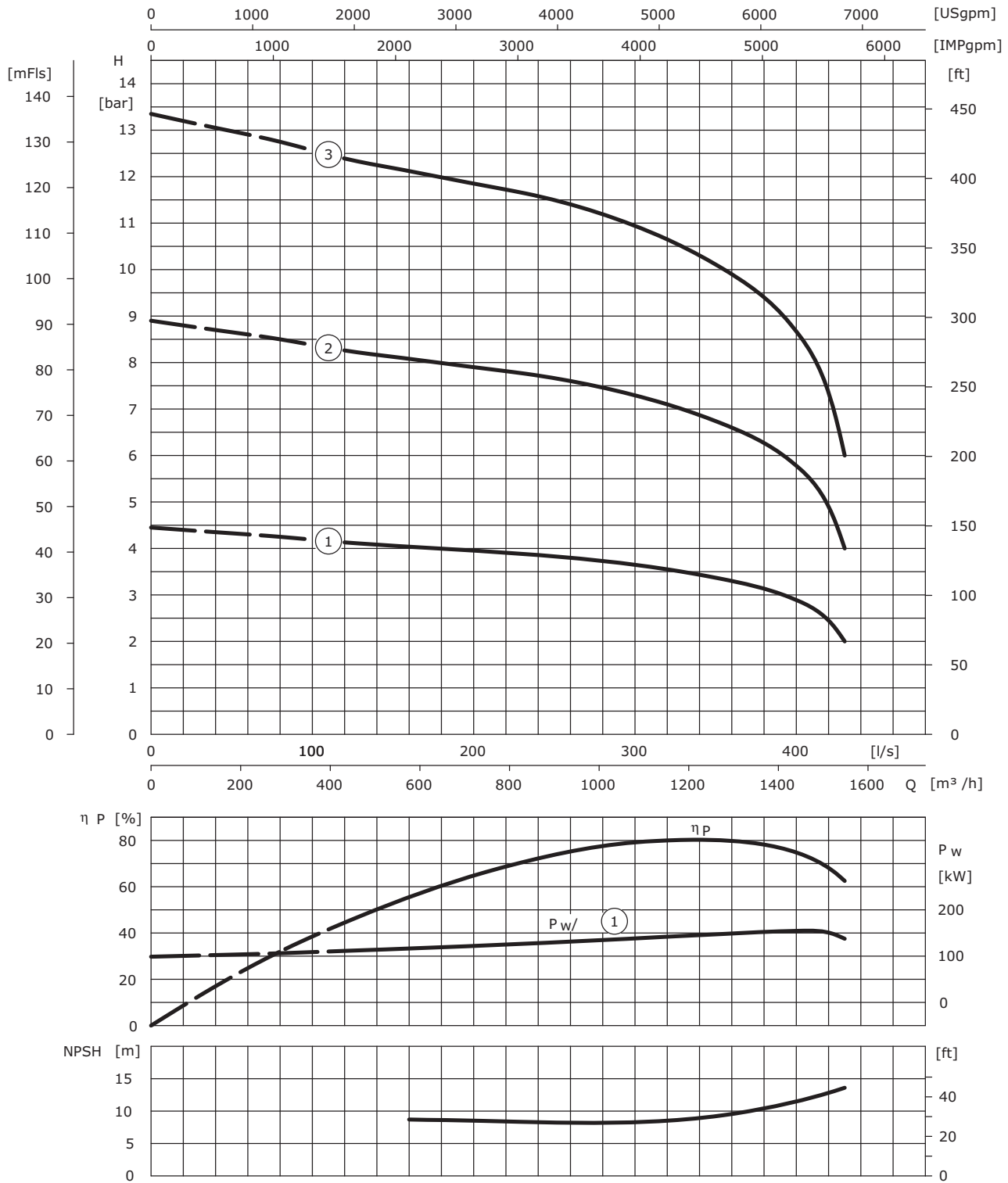
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with flange connection DN300, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Pump curves Wilo-EMU D 1800

Wilo-EMU D 1800



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU D 1800

Technical data

Wilo-EMU...	No.	Availability*	Motor type	Nominal power	Nominal current	Shaft power	Current for power requirement of the shaft	Inst.		
				–	P_2	I_N	P_w		I	–
				–	[kW]	[A]	[kW]		[A]	–
D 1800-1	1	A	NU 121-4/120	168.00	345	160	325	V		
D 1800-1	2	A	U 156-4/64	160.00	320	160	320	V+H		
D 1800-2	3	A	U 210-4/70	315.00	600	315	600	V+H		
D 1800-3	4	A	U 210-4/110	490.00	740	475	710	V		

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilo-EMU...	Con- nection	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C			
				DN ₁	PN ₁						L	max. ϕ	–
											[mm]	[bar]	
D 1800...	DN 350	–	10	473	586	225	V+H	–	7	6 035 687			
	DN 350	–	16	473	586	225	V+H	–	6 031 224	6 040 817			

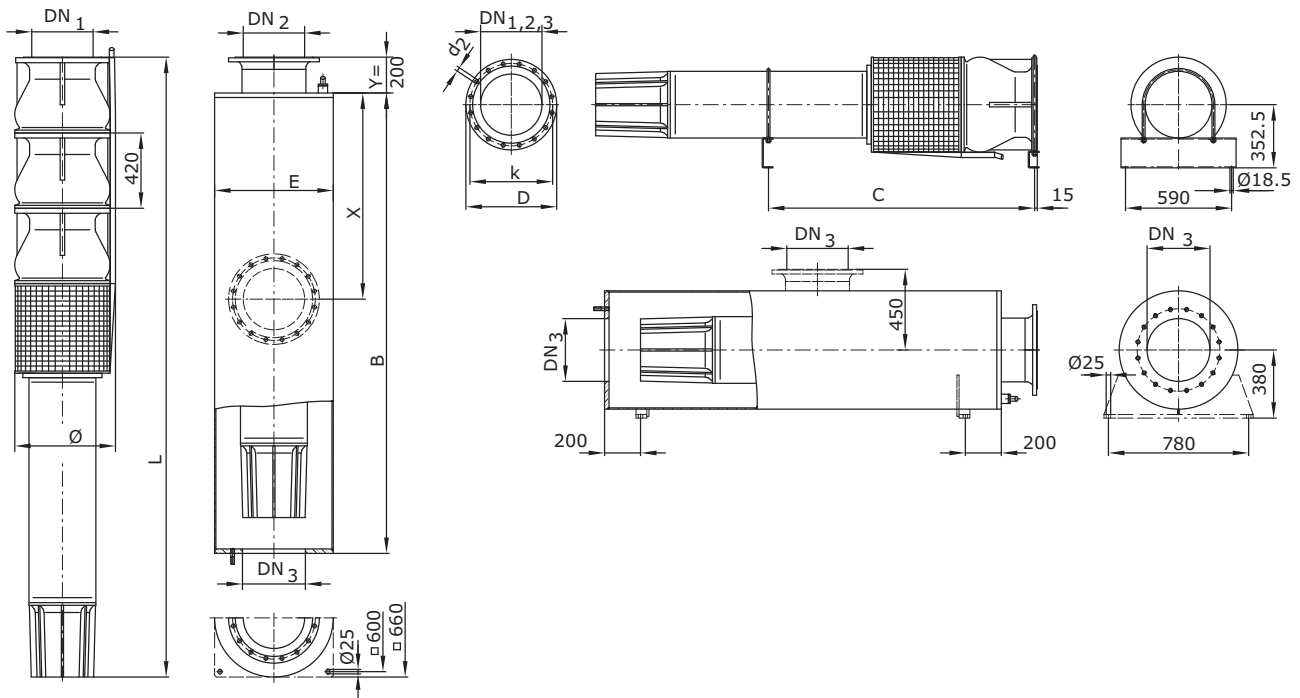
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN350, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU D 1800

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
D 1800-1	NU 121-4/120	3490	-	660	3183	568	1112	589
D 1800-1	U 156-4/64	2920	1770	660	2618	568	1220	524
D 1800-2	U 210-4/70	1)	2550	1)	3578	581	2650	1)
D 1800-3	U 210-4/110	1)	-	1)	4398	587	3445	1)

Accessories Wilo-EMU D 1800

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
NU 12.	–	1)	1)	1)
U 15.	–	1)	1)	1)
U 21.	–	1)	1)	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	–	A	W	–	–	StVz	CrNi
	–	[mm]	–	–	[kg]	–	
D 1800-1	NU 121-4/120	– 1)	– 1)	V	– 1)	– 1)	– 1)
D 1800-1	U 156-4/64	– 1)	– 1)	V	– 1)	– 1)	– 1)
D 1800-2	U 210-4/70	– 1)	– 1)	V	– 1)	– 1)	– 1)
D 1800-3	U 210-4/110	– 1)	– 1)	V	– 1)	– 1)	– 1)

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
D 1800...	DN 350	DN 350	DN 350	10	10	10	16x22	460	505
	DN 350	–	–	16	–	–	16x26	470	520
	–	–	DN 400	–	–	10	16x26	515	565

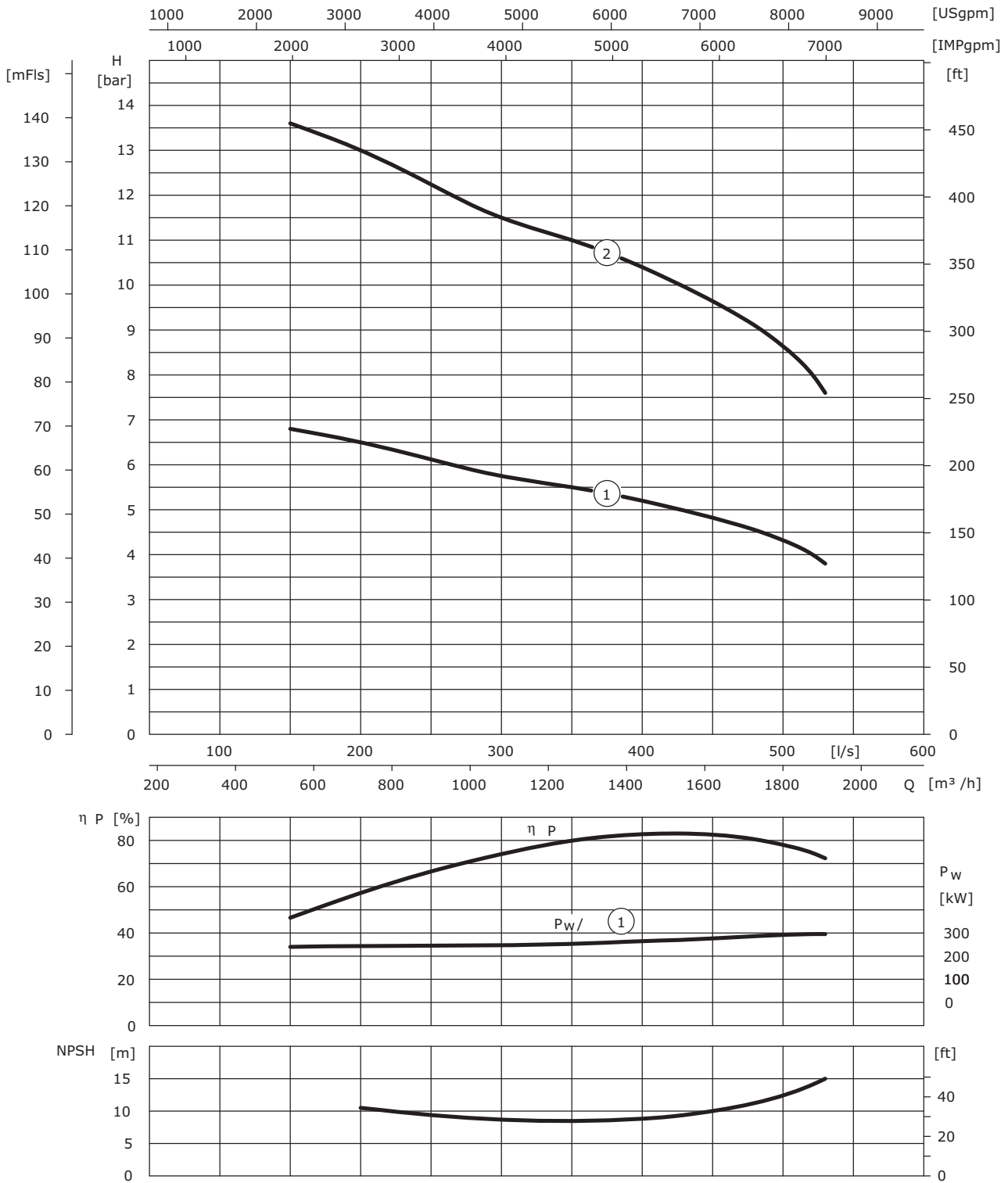
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ø with flange connection DN350, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilco-EMU 10" series

Pump curves Wilco-EMU KM 3100

Wilco-EMU KM 3100



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilо-EMU KM 3100

Technical data

Wilо-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.		
				-	P_2	I_N	P_w		I	-
				-	[kW]	[A]	[kW]		[A]	-
KM 3100-1	1	A	U 156-4/135	310.00	610	300	590	V		
KM 3100-1	1	A	U 210-4/70	315.00	600	300	590	V+H		
KM 3100-2	2	A	U 210-4/135	620.00	940	610	930	V		

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilо-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C		
				DN ₁	PN ₁						L	max. Ø
				[mm]	[bar]						[mm]	[mm]
KM 3100...	DN 350	-	10	473	586	225	V+H	-	7	6 035 687		
	DN 350	-	16	473	586	225	V+H	-	6 031 224	6 040 817		

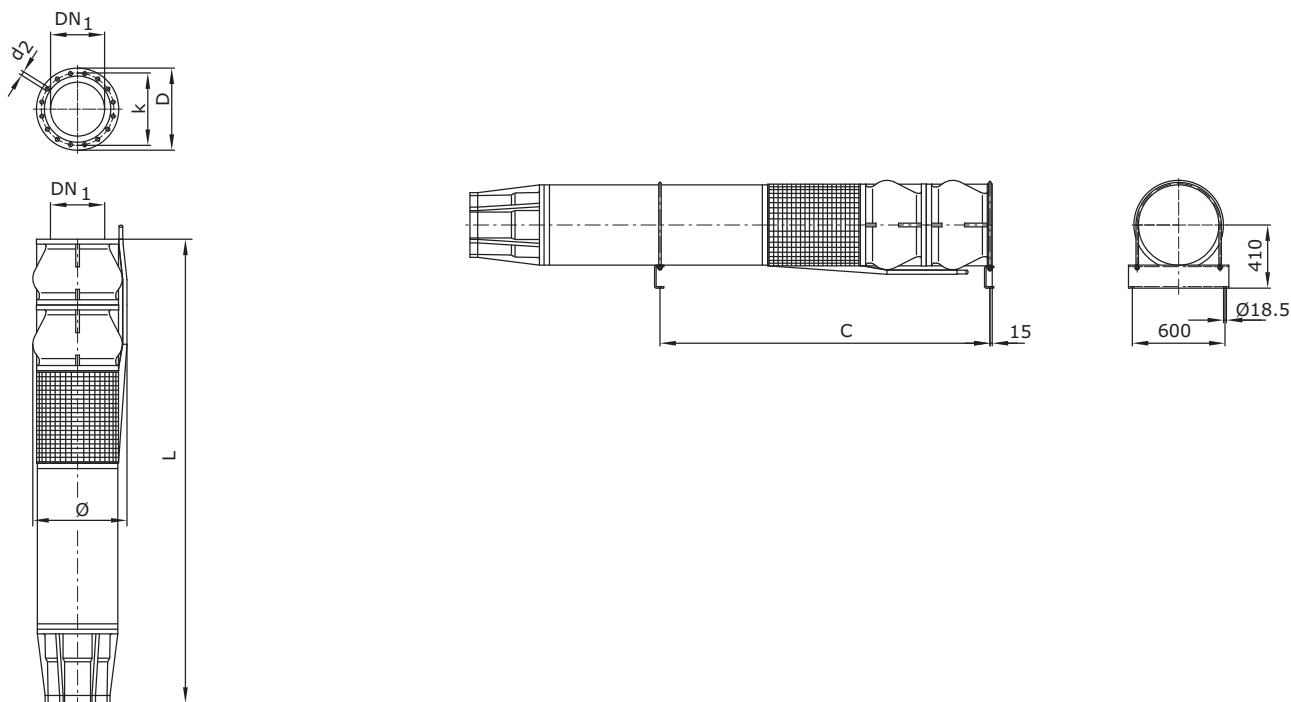
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. Ø with flange connection DN350, ⁴⁾ -, ⁵⁾ -, ⁶⁾ -, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU KM 3100

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
KM 3100-1	U 156-4/135	1)	-	1)	3447	628	1922	1)
KM 3100-1	U 210-4/70	1)	2040	1)	3072	628	2480	1)
KM 3100-2	U 210-4/135	1)	-	1)	4152	642	3755	1)

Accessories Wilo-EMU KM 3100

Bearing brackets and anti-vortex plate

Wilo-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
	-			
NU 12.	-	1)	1)	1)
U 15.	-	1)	1)	1)
U 21.	-	1)	1)	1)

Cooling jacket pipes

Wilo-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	-	A	W	-	-	StVz	CrNi
	-	[mm]		-	[kg]	-	
KM 3100-1	U 156-4/135	- 1)	- 1)	V	- 1)	- 1)	- 1)
KM 3100-1	U 210-4/70	- 1)	- 1)	V	- 1)	- 1)	- 1)
KM 3100-2	U 210-4/135	- 1)	- 1)	V	- 1)	- 1)	- 1)

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
KM 3100...	DN 350	-	-	10	-	-	16x22	460	505
	DN 350	-	-	16	-	-	16x26	470	520

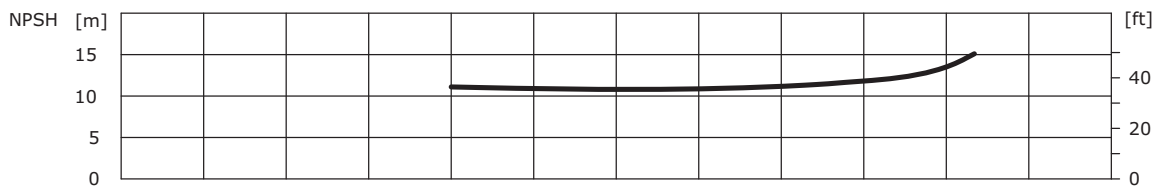
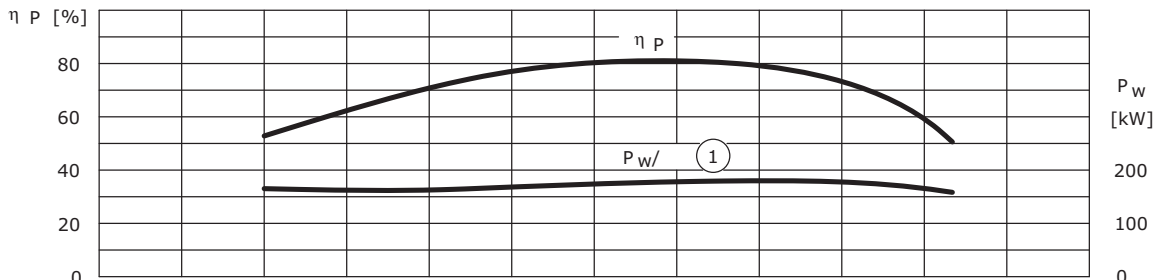
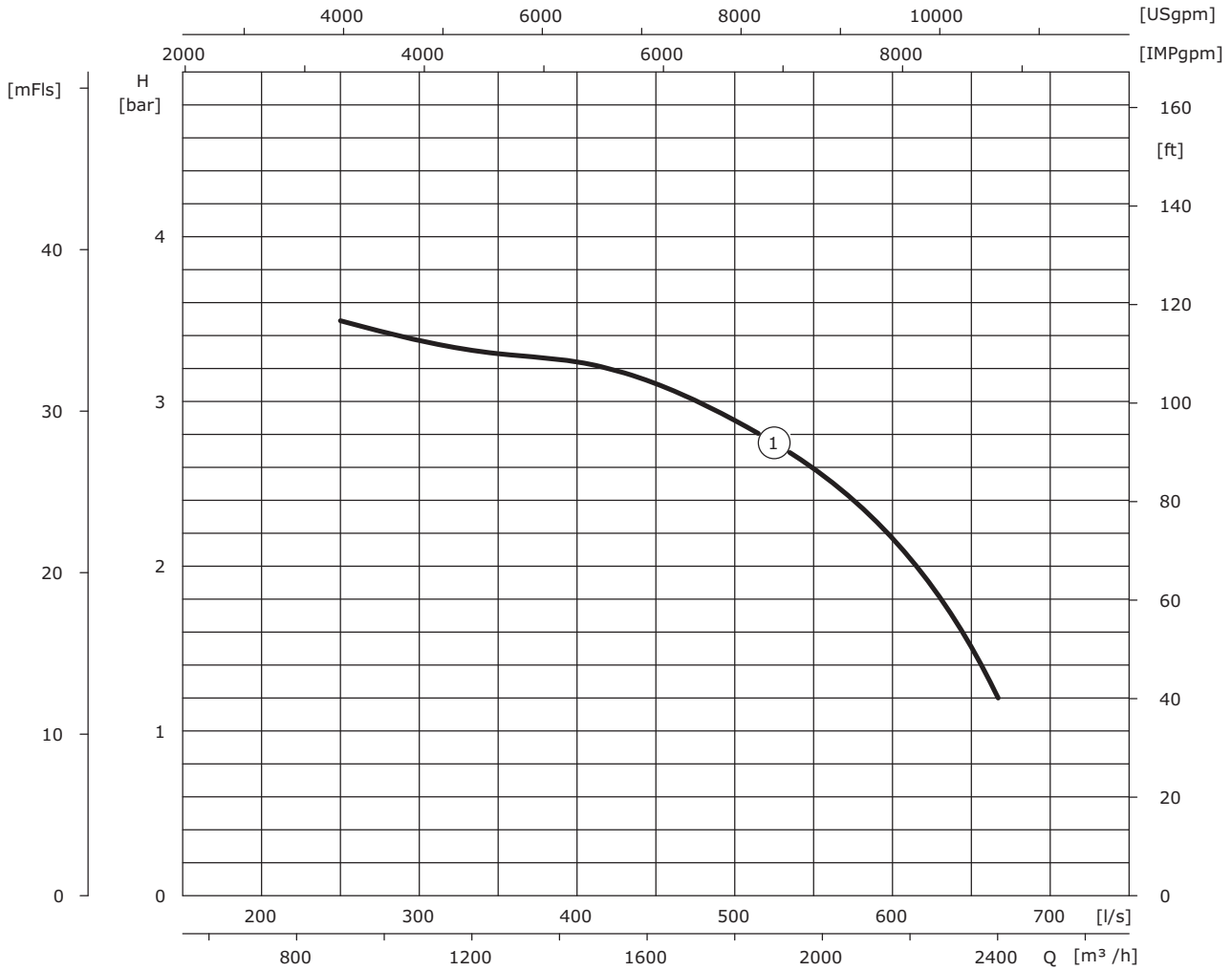
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (Y/D), max. ϕ with flange connection DN350, ⁴⁾ -, ⁵⁾ -, ⁶⁾ -, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Pump curves Wilo-EMU SCH 2350

Wilo-EMU SCH 2350



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilо-EMU SCH 2350

Technical data

Wilо-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal cur- rent	Shaft power	Current for power require- ment of the shaft	Inst.
		-		P ₂	I _N	P _w	I	-
		-		[kW]	[A]	[kW]	[A]	-
SCH 2350-1	1	A	U 156-4/84	200	400	192	385	V+H

* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Non-return valves

Wilо-EMU...	Conne- ction	Thread in- ternal/ex- ternal	Pressure class	Dimensions		Weight	Inst.	Fig.	Code A	Code C
	DN ₁	-	PN ₁	L	max. Ø	-				
	[mm]	-	[bar]	[mm]		[kg]	-			
SCH 2350...	DN 400	-	10	7)	7)	7)	V+H	-	7)	7)

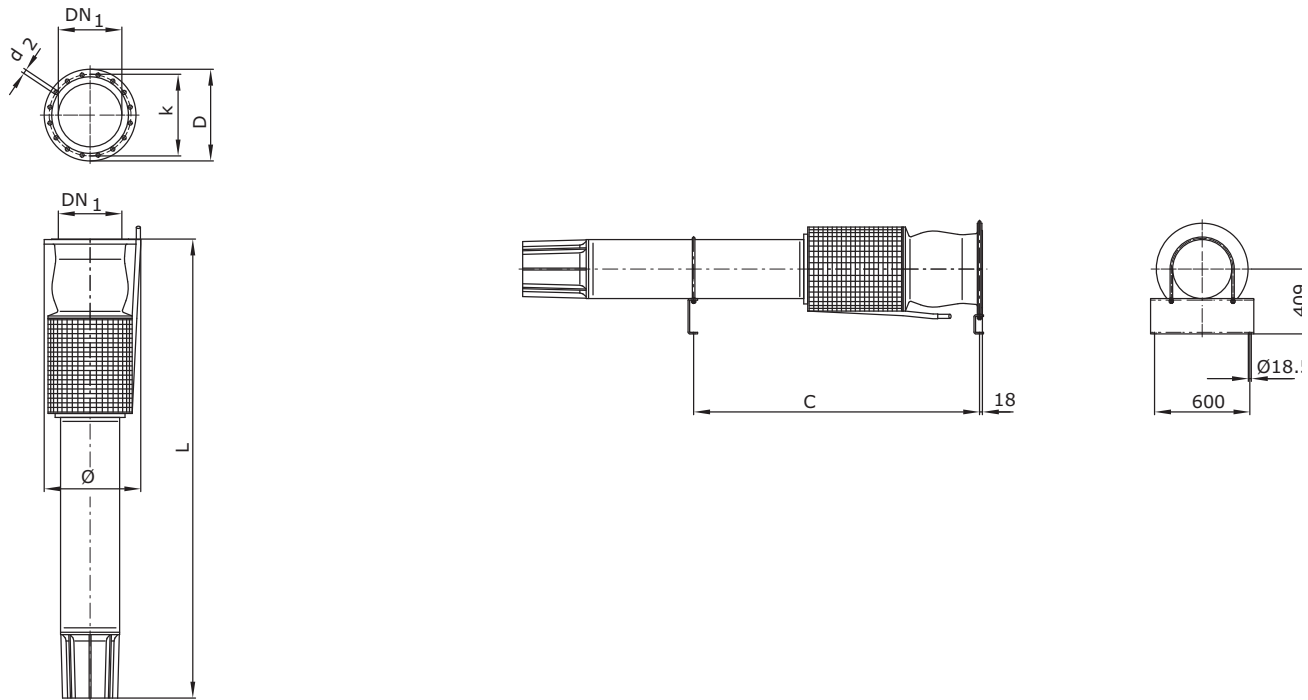
Pump without non-return valve. ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. Ø with flange connection DN400, ⁴⁾ -, ⁵⁾ -, ⁶⁾ -, ⁷⁾ On request

Water Supply Municipal/Industrial

Wilo-EMU 10" series

Dimensions, weights Wilo-EMU SCH 2350

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions					Weight	
		B	C	E	L	max. ϕ ³⁾	Aggregate	Shroud
		[mm]					[kg]	
SCH 2350-1	U 156-4/84	¹⁾	2050	¹⁾	2995	610	1539	¹⁾

Accessories Wilо-EMU SCH 2350

Bearing brackets and anti-vortex plate

Wilо-EMU...	Bearing brackets		Anti-vortex plate	
	Steel galv.	CrNi-steel	Steel galv.	CrNi-steel
	-			
NU 12.	-	1)	1)	1)
U 15.	-	1)	1)	1)

Cooling jacket pipes

Wilо-EMU...	Motor type	Pipe diameter	Pipe length	Installation	Weight	SAP No.	
	-	A	W	-	-	StVz	CrNi
	-	[mm]		-	[kg]	-	
SCH 2350-1	U 156-4/84	- 1)	- 1)	V	- 1)	- 1)	- 1)

Flange dimensions

Wilо-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
SCH 2350...	DN 400	-	-	10	-	-	12x26	-	565

Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ In case of cable according to IN (V/D), max. ϕ with flange connection DN400, ⁴⁾ -, ⁵⁾ -, ⁶⁾ -, ⁷⁾ On request

Water Supply Municipal/Industrial



Water supply municipal / industrial

Single pumps

Accessories

Installation accessories

Cable clip	454
SI flange seal	454
Centring apparatus	454

Mechanical accessories

Pressure shell	455
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Water Supply Municipal/Industrial

Accessories

Installation accessories

Cable clip



The cable clip is used for fixation of the flow feed line to the ascending pipe. The cable clips are mounted at shorter distances apart, depending on the line cross-section and/or weight.

Two cable clips each are provided for line cross-sections of up to 25 mm² for each ascending pipe (5–6 m) and for each flow feed line. Larger-sized line cross-sections are fastened additionally at distances of from 1 to 3 m.

The cable clips are mounted respectively at both ends of an ascending pipe – just before the flange or the sleeve – (with separate cable clips for each in cases where there are two flow feed lines). It must be ensured that the flow feed line will not be able to slide free.

The cable clip is made of SBR rubber (KTW-approved) with a locking hook made of rust-free stainless steel. It can be obtained in the sizes 32–500 mm.

SI flange seal



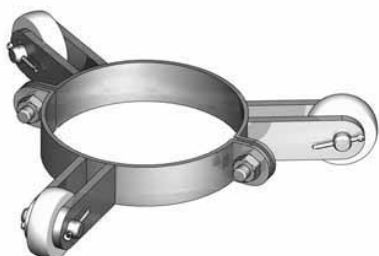
The SI flange seal protects the filter and add-on pipes of the well against damage. This applies for both the installation and dismantling of the ascending pipe as well as during operation of the pump, in cases where the ascending pipe line is positioned against the side of the well.

The SI flange seal forms an elastic protective body between flange and filter pipe wall, thus preventing metallic contact. Because of the lobular shape, the free-flowing cross-section of the well remains essentially unaffected.

EPDM without woven fabric inlay is used as the material (with KTW authorisation). The flange seal is available in the sizes DN50 – DN150 in the pressure class PN10–16.

We recommend the use of a centring apparatus for special applications.

Centring apparatus



Centring apparatuses facilitate the installation and dismantling of submersible motor pumps and protect the well pipework (plastic, plastic coating, etc.) and the flow feed line against damage.

In addition, it ensures the centred installation of the unit and thereby also a uniform intake of water.

Installation is carried out on the ascending pipe immediately above the submersible motor pump.

Mechanical accessories

Pressure shell



The submersible motor pumps can be installed in a pressure shroud for the purpose of pressure boosting. This makes it possible to install the unit in a tank or directly in the pipeline itself (similar to dry sump installation).

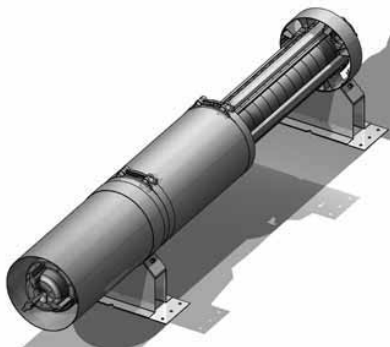
Pressure shroud pumps can be installed vertically and, up to a certain number of stages, also horizontally. The connections for the pipeline system can be attached axially or laterally. The connections are also available as flanged or threaded connections.

The construction of the pressure shrouds has been standardised up to a size of 8". The construction form can be implemented individually starting with an installation size of 10".

The pressure shrouds can be equipped with a pedestal upon request.

One has a choice between galvanised steel and stainless steel for the material.

Cooling jacket pipes



It may be expedient to equip submersible motor pumps with a cooling jacket pipe in situations where:

- sludge deposits could form on the motor (e.g. for application in a pump sump immediately aboveground),
- improved motor cooling is required because of unusual operating conditions,
- no non-perforated well casing is present in the well available and the must be installed in the filtration pipe system,
- sand appears in the well,
- installation takes place in rock springs without pipe networks.

The utilisation of a cooling jacket pipe is not suitable for lowering the water level below the discharge port, because the connection and the cable feedthrough are not sealed. It is for that reason that a dry-running protection system is to be provided, even when a cooling jacket pipe is being used.

The overall length of the cooling jacket pipe is somewhat shorter than that of the submersible motor pump. The shroud can also be made longer or the lower end can also be equipped with an intake strainer upon request.

One has a choice between galvanised steel and stainless steel as materials for the cooling jacket pipe.

Bearing brackets



Bearing brackets are used for reinforcement with the horizontal installation of submersible motor pumps.

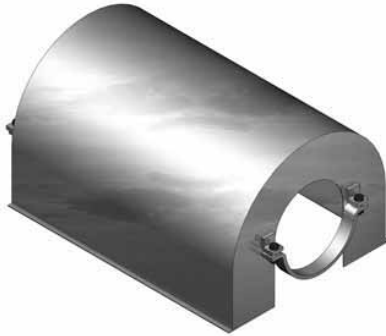
These are to be manufactured specifically in terms of size and construction form for each type of unit.

One has a choice between galvanised steel and stainless steel for the material.

Availability, materials used and order number can be found in the Technical data sheets for the respective type.

Mechanical accessories

Anti-vortex plate



The anti-vortex plate can be used with horizontal installation. It is fastened to the inlet area of the unit, thus preventing air turbulence during operation. The fluid is fed to the unit in defined fashion by means of the utilisation of an anti-vortex plate. As a result, the required minimum water coverage can be minimised and the reservoir can be better utilised.

The anti-vortex plate is manufactured specifically in terms of size and construction form for each type of unit.

One has a choice between galvanised steel and stainless steel for the material.

Availability, materials used and order number can be found in the Technical data sheets for the respective type.

Non-return valve (RV, RVF)



Non-return valves prevent the backward flow of the flow volume and thus the emptying of the ascending pipe, the reverse running of the switched-off submersible motor pump and any potential blocking of the pump by the trickling backward of solid matter.

In addition, any water hammering that may occur as the result of reverse oscillations in the flow volume after the pump is switched off is reduced.

The non-return valve is installed on the pressure port of the submersible motor pump and, in the case of larger systems, also after the elbow in the ascending pipe. We recommend the utilisation of spring-mounted non-return valves (RVF) or non-return nozzle valves where there is a danger of water hammering.

The housings are available in cast iron or (upon request) in zinc-free bronze.

Flange connection as per DIN 2501; screw thread in accordance with Whitworth pipe thread DIN 2999 or B.S.2779

Non-return nozzle valve



The non-return nozzle valve is numbered among the most economical non-return valves. Compact design and a short over-all length are made possible by an innovative construction form.

In addition, the flow cross-sections have been optimised, thus reducing pressure losses.

The valve is available for nominal diameters ranging from DN80 to DN300 and pressure stages from PN10 to PN40. Fluids can be pumped up to a maximum temperature of 70°C.

The materials utilised include rust-free steel, bronze and elastomer parts (KTW-approved).

Mechanical accessories

Transitions



Flange-thread transition

DN50 PN16	-->	R1 $\frac{1}{4}$ "	1.4301
DN50 PN16	-->	R1 $\frac{1}{2}$ "	1.4301
DN50 PN16	-->	R2"	1.4301
DN65 PN16	-->	R1 $\frac{1}{2}$ "	1.4301
DN65 PN16	-->	R2"	1.4301
DN65 PN16	-->	R2 $\frac{1}{2}$ "	1.4301
DN80 PN16	-->	R2"	1.4301
DN80 PN16	-->	R2 $\frac{1}{2}$ "	1.4301
DN80 PN16	-->	R3"	1.4301 or NiAl-Bz
DN100 PN16	-->	R3"	1.4301
DN100 PN16	-->	R4"	1.4301
DN150 PN16	-->	R4"	1.4301
DN150 PN16	-->	R5"	1.4301



Screwed flange

DN50 PN16	-->	R2"	1.4571
DN50 PN40	-->	R2"	1.4571
DN65 PN16	-->	R1 $\frac{1}{2}$ "	1.4571
DN65 PN40	-->	R1 $\frac{1}{2}$ "	1.4571
DN80 PN16	-->	R3"	1.4571
DN80 PN40	-->	R3"	1.4571
DN100 PN16	-->	R4"	1.4571
DN100 PN40	-->	R4"	1.4571
DN150 PN16	-->	R6"	1.4571
DN150 PN40	-->	R6"	1.4571

Pipe double nipple

R1 $\frac{1}{2}$ " x 80 mm	1.4571
R2" x 100 mm	1.4571
R2 $\frac{1}{2}$ " x 80 mm	1.4571
R3" x 120 mm	1.4571
R4" x 120 mm	1.4571
R5" x 150 mm	1.4571
R6" x 150 mm	1.4571

Sleeves

G2" x 56 mm	1.4571
G2 $\frac{1}{2}$ "	1.4571
G3" x 71 mm	1.4571
G4" x 83 mm	1.4571
G5" x 92 mm	1.4571
G6" x 92 mm	1.4571

Reducer adapter

R2"	-->	R1 $\frac{1}{2}$ "	1.4571 or 1.4570
R2 $\frac{1}{2}$ "	-->	R2"	1.4571
R3"	-->	R2"	1.4571
R3"	-->	R2 $\frac{1}{2}$ "	1.4571
R4"	-->	R2 $\frac{1}{2}$ "	1.4571
R4"	-->	R3"	1.4571
R4"	-->	R3 $\frac{1}{2}$ "	1.4571
R5"	-->	R4"	1.4571
R6"	-->	R5"	1.4571

Electrical accessories

Plastic cable connector



The plastic cable connector can be used for water pressure-tight connections between existing electrical current feeder cables and additional current cables.

The cable connector is supplied in a complete set.

The following sizes are available:

Size 0 26x200 mm

Size 1... 37x260 mm

Size 2... 55x500 mm

Size 3... 80x765 mm

Size 4 85x770 mm

Series overview	460
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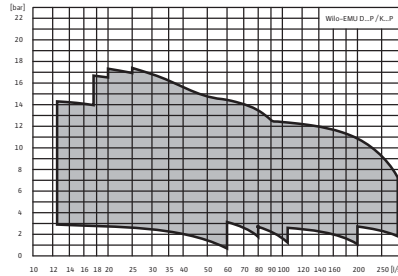
Wilo-EMU polder pump

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Series description	464

Special Pumps

Series overview Wilo-EMU special pumps for special applications

Series: Wilo-EMU polder pump



> Polder pump

- Pumping pure water with a maximum temperature of up to 20°C
- Without long-fibre constituents
- Tanks or waters with low standing water levels
- Municipal water supply
- Sprinkling and irrigation
- Lowering the ground water level
- Industrial applications
- Offshore installations
- Utilisation of geothermal energy



Series overview Wilo-EMU special pumps for special applications

Series: Wilo-EMU polder pump

> Product advantages:

- Deep water lowering possible
- Self-cooling construction
- Easy installation on the ascending pipe
- Favourable NPSH requirement
- Variety of material constructions available
- Wear-resistant version
- Compact construction
- Rewindable motors

> Additional information:

- | | Page |
|----------------------------|-------------|
| • Series description | 464 |

Special Pumps



Wilо-EMU polder pumps

Single pumps

Wilо-EMU polder pumps

Series description	464
Wilо-EMU KM 150P	466
Wilо-EMU K 126P	470
Wilо-EMU K 127P	474
Wilо-EMU K 146P	478
Wilо-EMU D 500P	482
Wilо-EMU K 221P	486
Wilо-EMU DCH 980P	490

Special Pumps

Wilo-EMU polder pump

Series description Wilo-EMU polder pump



Wilo-EMU polder pump

Submersible pumps

Type key hydraulics

Example: **K 127P-3**

- K** = Submersible hydraulics (KM, K, D, DCH)
- 12** = Hydraulics diameter
- 6** = Installation size
- 1** = Material version higher resistance
- P** = Construction form polder pump
- 3** = Number of stages

Type key motor

Example: **M 9-2/75**

- M** = Motor special construction for polder pumps applications
- 9** = Installation size (8 = 8" installation size; 9 = 10" installation size; 12 = 12" installation size, 15... = 16" installation size)
- 2** = Number of poles
- 75** = Unit length

Application

Pure water unit for pumping pure water with a maximum temperature up to 20 °C, without long-fibre components, from tanks or water with low water level.

Application areas in municipal water supply, for sprinkling and irrigation, lowering of the groundwater level, in industrial applications, in off-shore installations as well for the use of geothermal energy.

Higher temperatures of the fluid on request.

Construction

Hydraulics

Hydraulics in single or multistage construction with semi-radial stage construction. The housings are made of GJL with 2K coating or G-CuSn10. The impellers are made of G-CuSn10. The suction piece is placed under the hydraulics stages and it is covered with a strainer for protection against heavily contaminated fluid.

Motor

The motor is placed above the hydraulics component. This enables a deep lowering of the water level. The motor shroud is made of A2/A4 or St/G-CuSn10. Three-phase motor for direct or star/delta start. The coupling connection is standardised. The shaft is sealed on the motor side with a double mechanical seal with SiC/SiC combination. Special materials possible on request. All motors are suitable for a frequency converter operation (SF 1,1). The motor is constructed as a dual pipe shroud. The pressure port is a motor component and is designed as a flange connection.

Cooling

The motor is cooled by the temperature and the flow speed of the fluid in the dual pipe system. Therefore the unit can partly be operated in a non-immersed state. In addition, all motors are filled with a water-glycol mixture from the manufacturer as standard. They can alternatively also be filled with secondary hot water (T version).

Optional

- Special materials
- 60Hz variant
- Accessories: non-return valve (on request)
- Length of the power cable upon customer demand

Series description Wilo-EMU polder pump

Technical data

Wilo-EMU...	Control area for frequency converter*	Max. fluid temperature	Min. flow rate at the motor	Cable length
	[Hz]	[°C]	[m/s]	[m]
M ...	2-pole: 25-50 4-pole: 30-50	20	–	upon customer demand

* Application of a sine filter or 10 % power reserve in relation to the max. shaft power P_w

Material pump

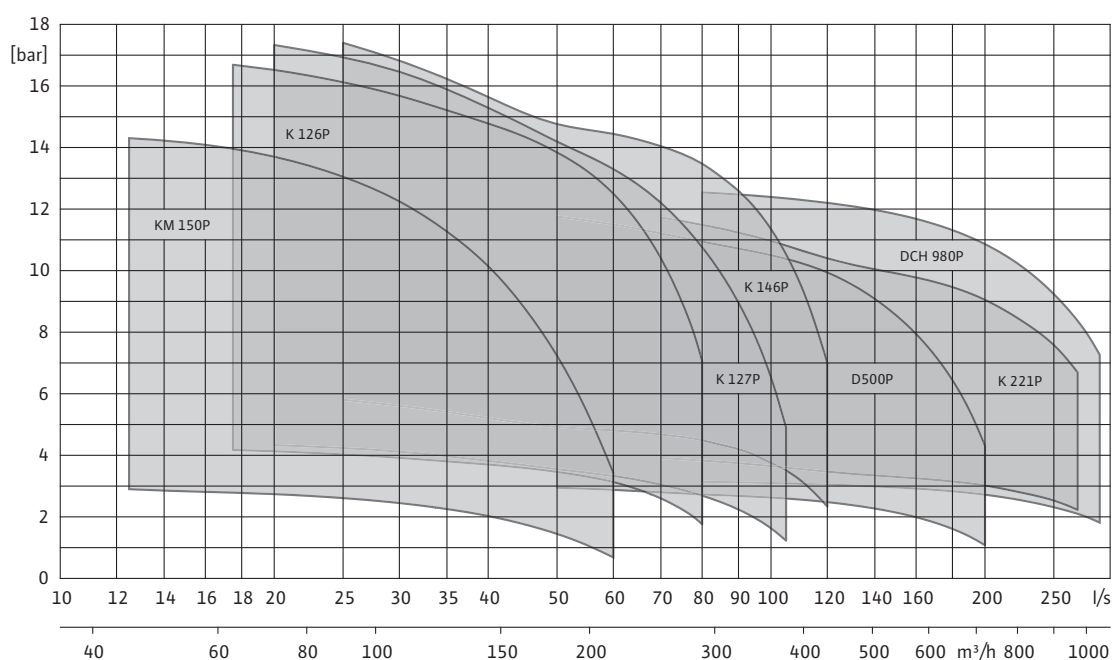
Wilo-EMU...	Version	Suction piece	Housing	Pressure port	NRV	Impeller	Diffuser	Shaft	Screwed connection
KM 150P, K 126P, K 127P, K 146P	A	EN-GJL	EN-GJL	EN-GJL	–	G-CuSn10	–	1.4057	A2
	C	G-CuSn10	G-CuSn10	G-CuSn10	–	G-CuSn10	–	1.4122	A2
D 500P, K 221P, DCH 980P	A	EN-GJL	EN-GJL	EN-GJL	–	G-CuSn10	–	1.4057	A2
	C	G-CuSn10	G-CuSn10	G-CuSn10	–	G-CuSn10	–	1.4122	A2

Material motor

Wilo-EMU...	Version	Housing	Motor shroud	Shaft	Screwed connection
M 8...	A	EN-GJL	1.4301	1.4057	A2
	C	G-CuSn10	1.4571	1.4462	A4
M 9..., M 12..., M 15...	A	EN-GJL	St	1.4057	A2
	C	G-CuSn10	G-CuSn10	1.4462	A4

The Drinking Water Ordinance and the respective approved technical rules are to be considered for the use of cast iron in the potable water installation!

Overview pump curve Wilo-EMU polder pump

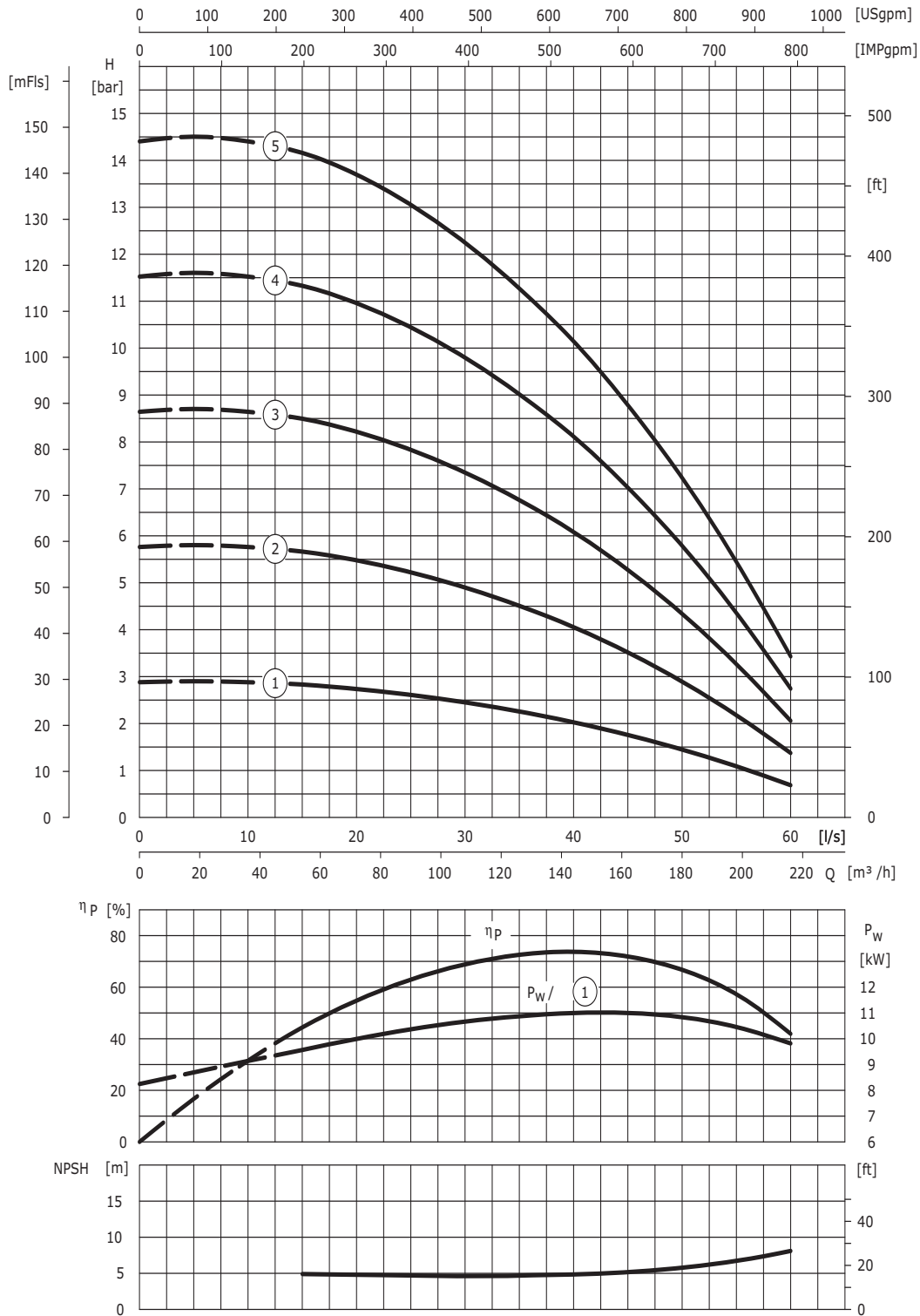


Special Pumps

Wilo-EMU polder pumps

Pump curves Wilo-EMU KM 150P

Wilo-EMU KM 150P



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU KM 150P

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	-
				[kW]	[A]	[kW]	[A]	-
KM 150P-1	1	A	M 8-2/28	26.50	54	12.5	29.50	V
KM 150P-2	2	A	M 8-2/28	26.50	54	23.0	46.50	V
KM 150P-3	3	A	M 8-2/40	37.00	74	34.0	67	V
KM 150P-4	4	A	M 8-2/55	55.00	111	45.0	91	V
KM 150P-5	5	A	M 8-2/60	61.00	121	56.0	111	V

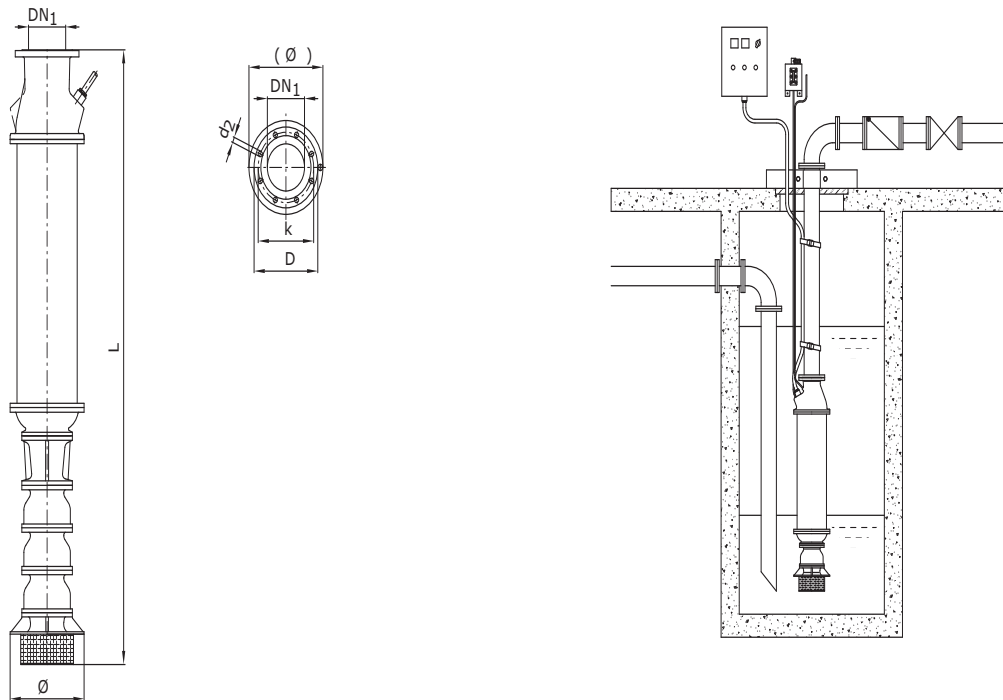
* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on requests on stock, order-related manufacture ca. 2 weeks

Special Pumps

Wilo-EMU polder pumps

Dimensions, weights Wilo-EMU KM 150P

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions		Weight
		L	max. ϕ ³⁾	Aggregate
				[mm]
KM 150P-1	M 8-2/28	1783	330	265.0
KM 150P-2	M 8-2/28	1928	330	284.0
KM 150P-3	M 8-2/40	2193	330	325.0
KM 150P-4	M 8-2/55	2588	330	380.0
KM 150P-5	M 8-2/60	2683	330	405.0

Accessories Wilco-EMU KM 150P

Flange dimensions

Wilco-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
KM 150P...	DN 150	-	-	10-16	-	-	8x22	240	285

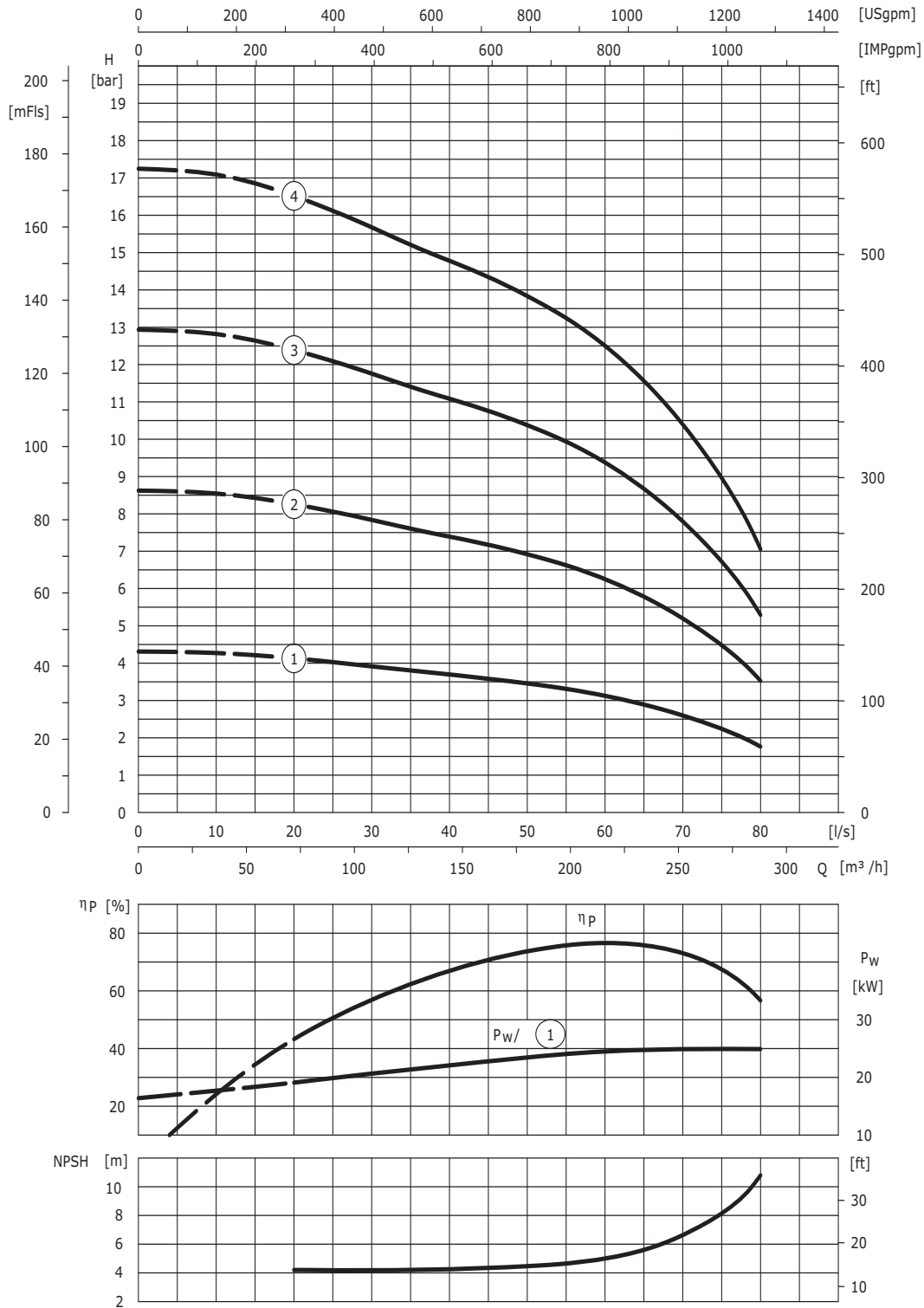
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ -, ⁴⁾ -, ⁵⁾ -, ⁶⁾ -, ⁷⁾ -

Special Pumps

Wilo-EMU polder pumps

Pump curves Wilo-EMU K 126P

Wilo-EMU K 126P



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 126P

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	-
				[kW]	[A]	[kW]	[A]	-
K 126P-1	1	A	M 8-2/28	26.50	54	26.0	53	V
K 126P-2	2	A	M 8-2/55	55.00	111	52.0	105	V
K 126P-3	3	A	M 9-2/50	86.00	168	78.0	153	V
K 126P-4	4	A	M 9-2/60	105.00	205	104.0	205	V

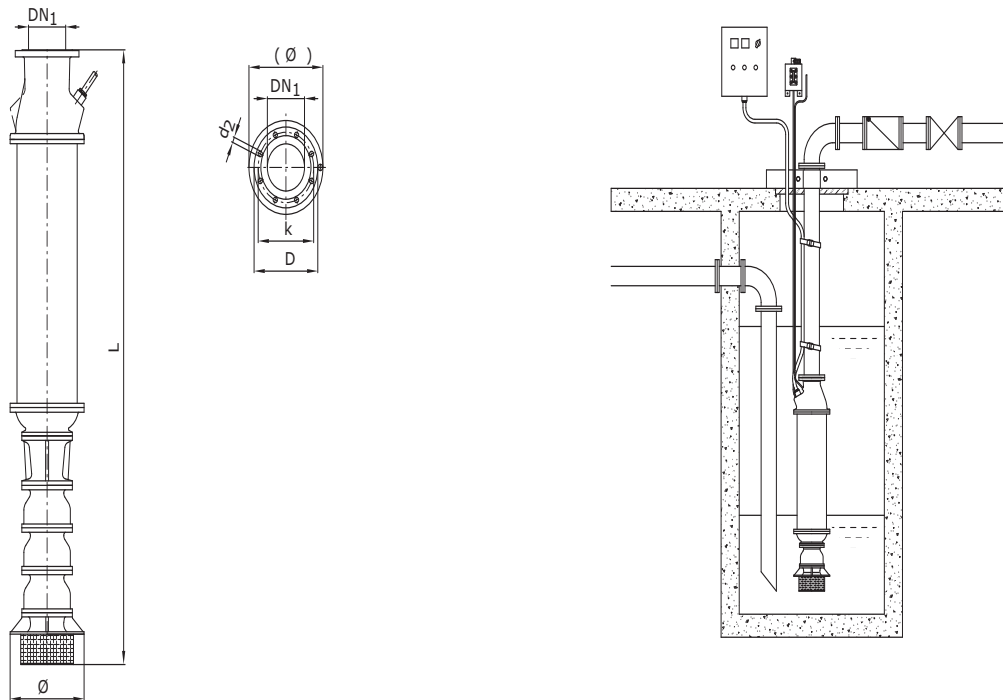
* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on requests on stock, order-related manufacture ca. 2 weeks

Special Pumps

Wilo-EMU polder pumps

Dimensions, weights Wilo-EMU K 126P

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions		Weight
		L	max. ϕ ³⁾	Aggregate
				[mm]
K 126P-1	M 8-2/28	1785*	398	380.0*
K 126P-2	M 8-2/55	2235*	398	452.0*
K 126P-3	M 9-2/50	2426*	398	550.0*
K 126P-4	M 9-2/60	2706*	398	620.0*

Accessories Wilo-EMU K 126P

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 126P...	*DN 150	–	–	10-16	–	–	8x22	240	285
	–	–	–	–	–	–	–	–	–
	DN 200 ⁴⁾	–	–	10	–	–	8x22	295	340
	DN 200 ⁴⁾	–	–	16	–	–	12x22	295	340
	DN 200 ⁴⁾	–	–	25	–	–	12x26	310	360

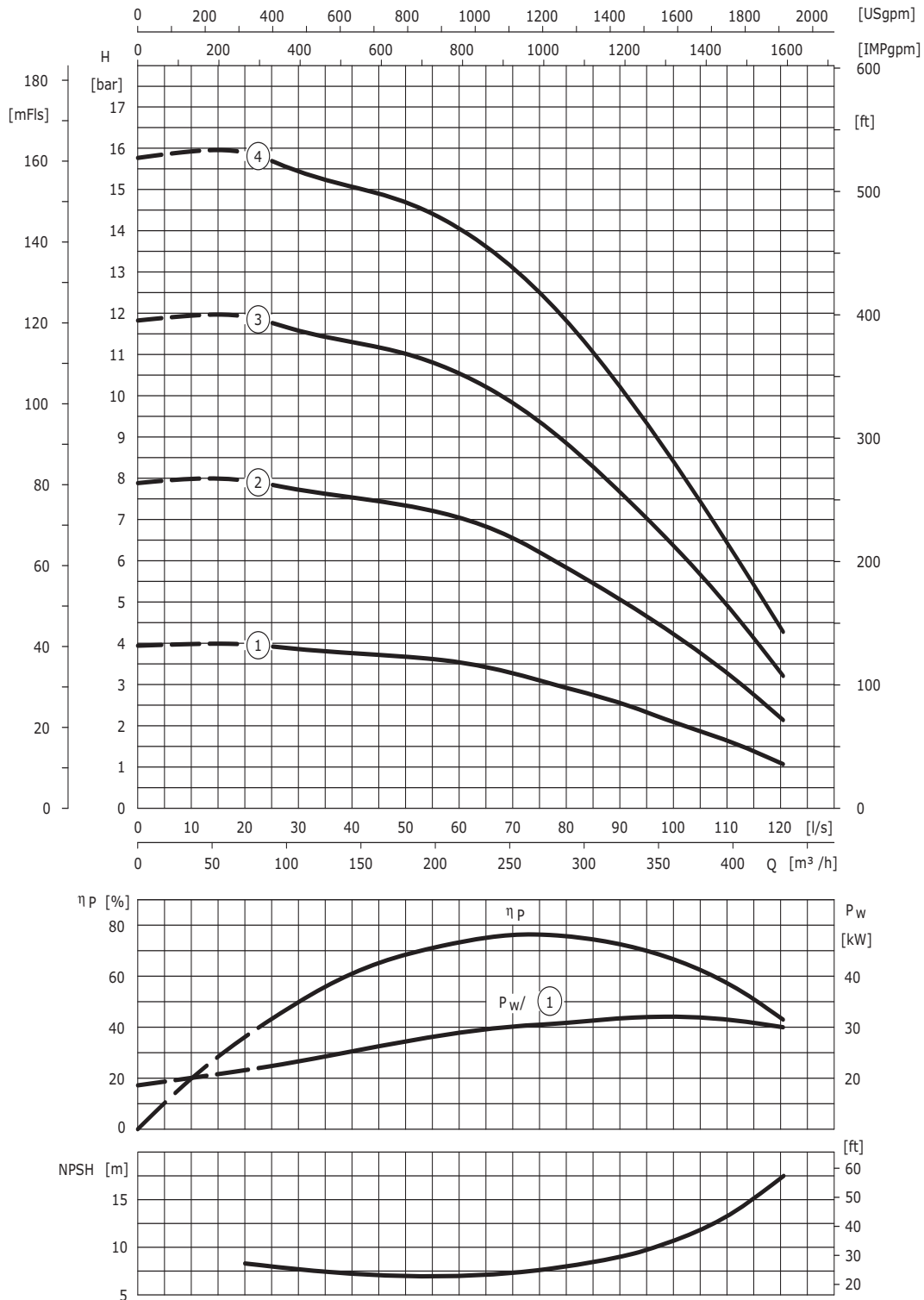
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ –, ⁴⁾ Only with motor M9I, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request, * only with DN 150

Special Pumps

Wilo-EMU polder pumps

Pump curves Wilo-EMU K 127P

Wilo-EMU K 127P



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilco-EMU K 127P

Technical data

Wilco-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	-
				[kW]	[A]	[kW]	[A]	-
K 127P-1	1	A	M 8-2/40	37.00	74	34.0	67	V
K 127P-2	2	A	M 8-2/60	67.00	128	59.0	117	V
K 127P-3	3	A	M 9-2/60	105.00	205	88.0	173	V
K 127P-4	4	A	M 9-2/75	152.00	285	118.0	225	V

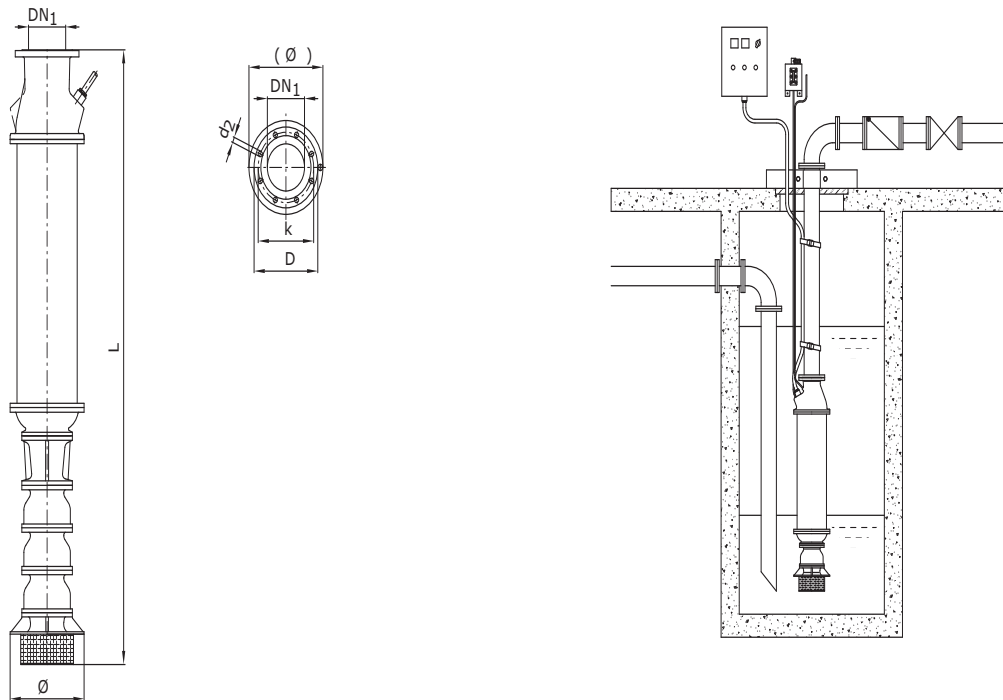
* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on requests on stock, order-related manufacture ca. 2 weeks

Special Pumps

Wilo-EMU polder pumps

Dimensions, weights Wilo-EMU K 127P

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions		Weight
		L	max. ϕ ³⁾	Aggregate
				[mm]
K 127P-1	M 8-2/40	1905*	398	400.0*
K 127P-2	M 8-2/60	2365*	398	472.0*
K 127P-3	M 9-2/60	2526*	398	576.0*
K 127P-4	M 9-2/75	3006*	398	700.0*

Accessories Wilo-EMU K 127P

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 127P...	DN 150	–	–	10-16	–	–	8x22	240	285
	–	–	–	–	–	–	–	–	–
	DN 200 ⁴⁾	–	–	10	–	–	8x22	295	340
	DN 200 ⁴⁾	–	–	16	–	–	12x22	295	340
	DN 200 ⁴⁾	–	–	25	–	–	12x26	310	360

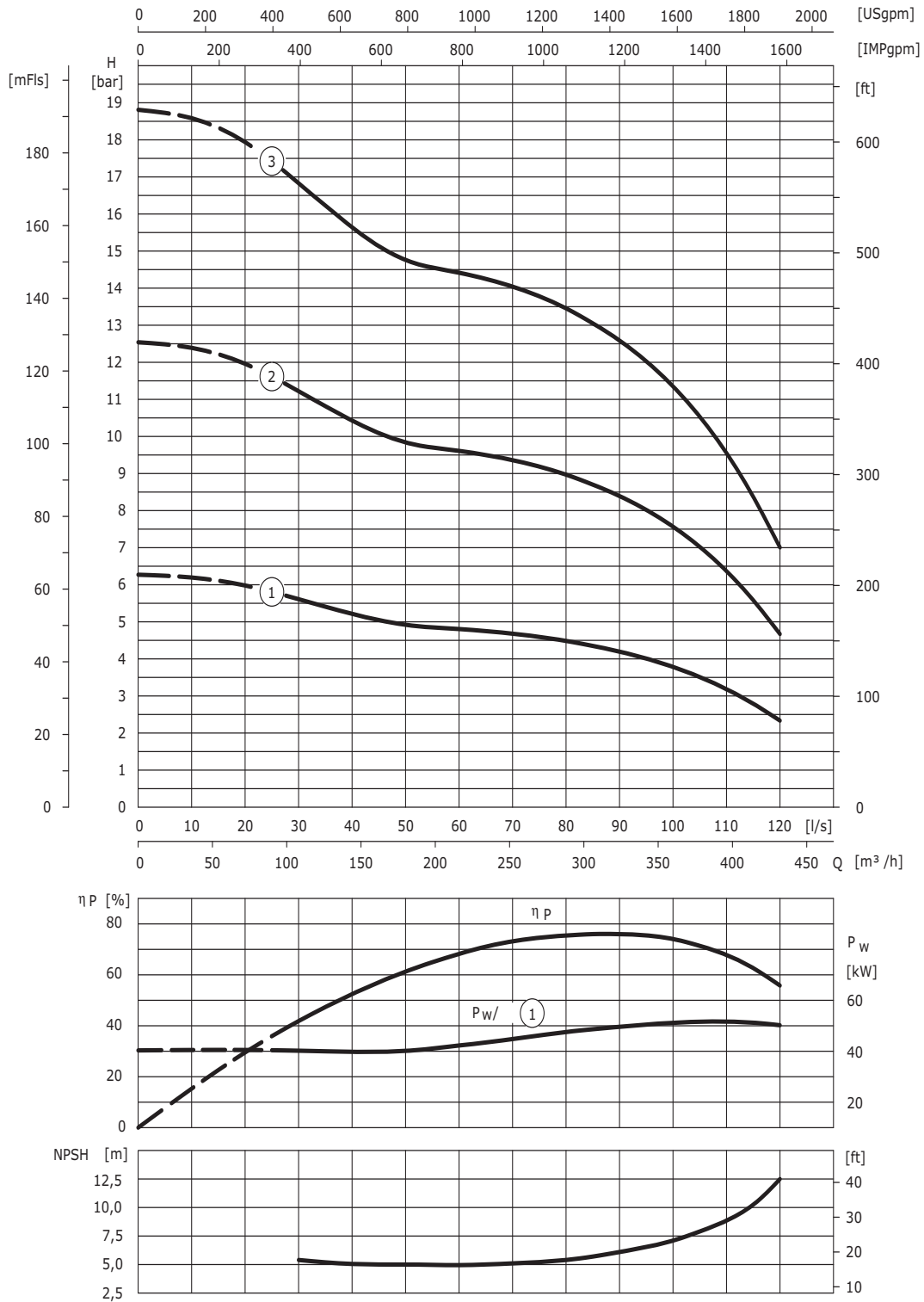
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ –, ⁴⁾ Only with motor M9I, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request, * only with DN 150

Special Pumps

Wilo-EMU polder pumps

Pump curves Wilo-EMU K 146P

Wilo-EMU K 146P



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 146P

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	-
				[kW]	[A]	[kW]	[A]	-
K 146P-1	1	A	M 8-2/55	55.00	111	52.0	105	V
K 146P-2	2	A	M 9-2/60	105.00	205	105.0	205	V
K 146P-3	3	A	M 9-2/100	166.00	320	159.0	310	V

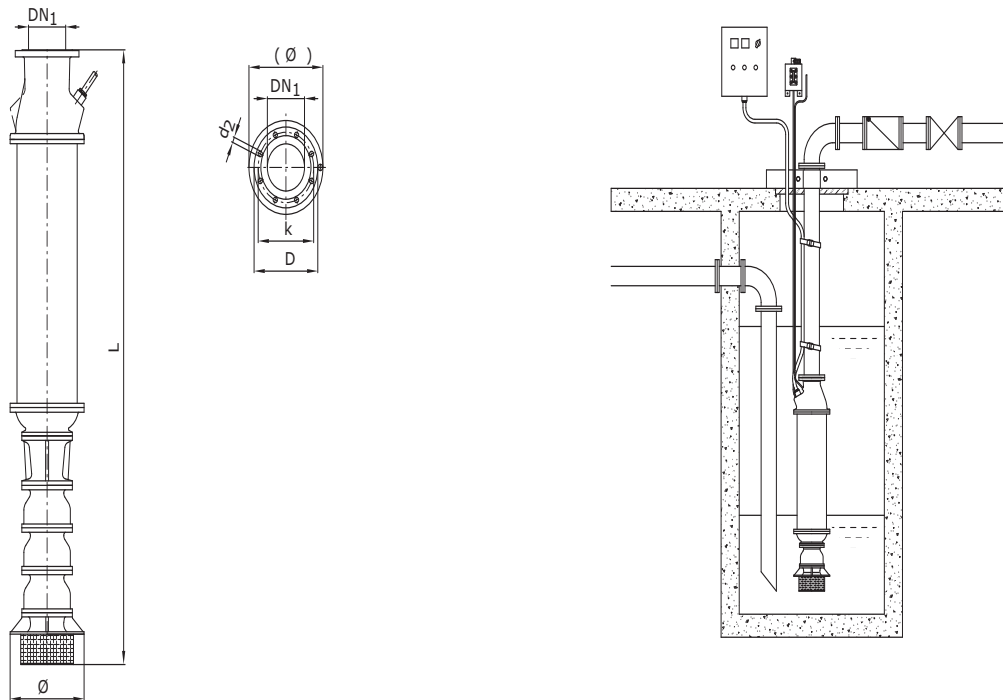
* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on request

Special Pumps

Wilo-EMU polder pumps

Dimensions, weights Wilo-EMU K 146P

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions		Weight
		L	max. ϕ ³⁾	Aggregate
		[mm]		[kg]
K 146P-1	M 8-2/55	2170*	398	445.0*
K 146P-2	M 9-2/60	2490	398	620.0
K 146P-3	M 9-2/100	3070	398	780.0

Accessories Wilo-EMU K 146P

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 146P...	DN 150	–	–	10-16	–	–	8x22	240	285
	–	–	–	–	–	–	–	–	–
	DN 200 ⁴⁾	–	–	10	–	–	8x22	295	340
	DN 200 ⁴⁾	–	–	16	–	–	12x22	295	340
	DN 200 ⁴⁾	–	–	25	–	–	12x26	310	360

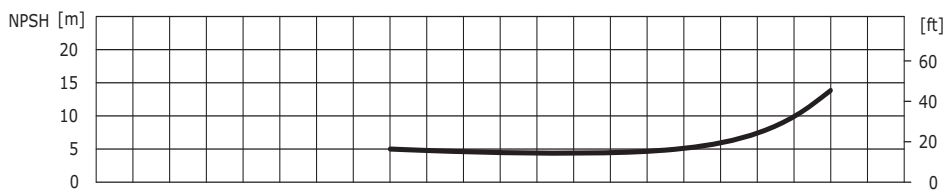
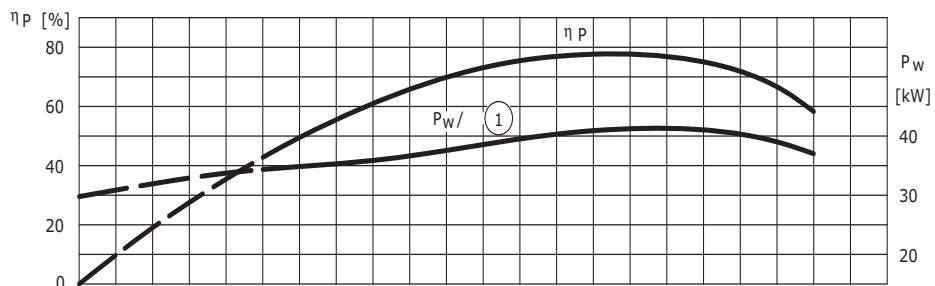
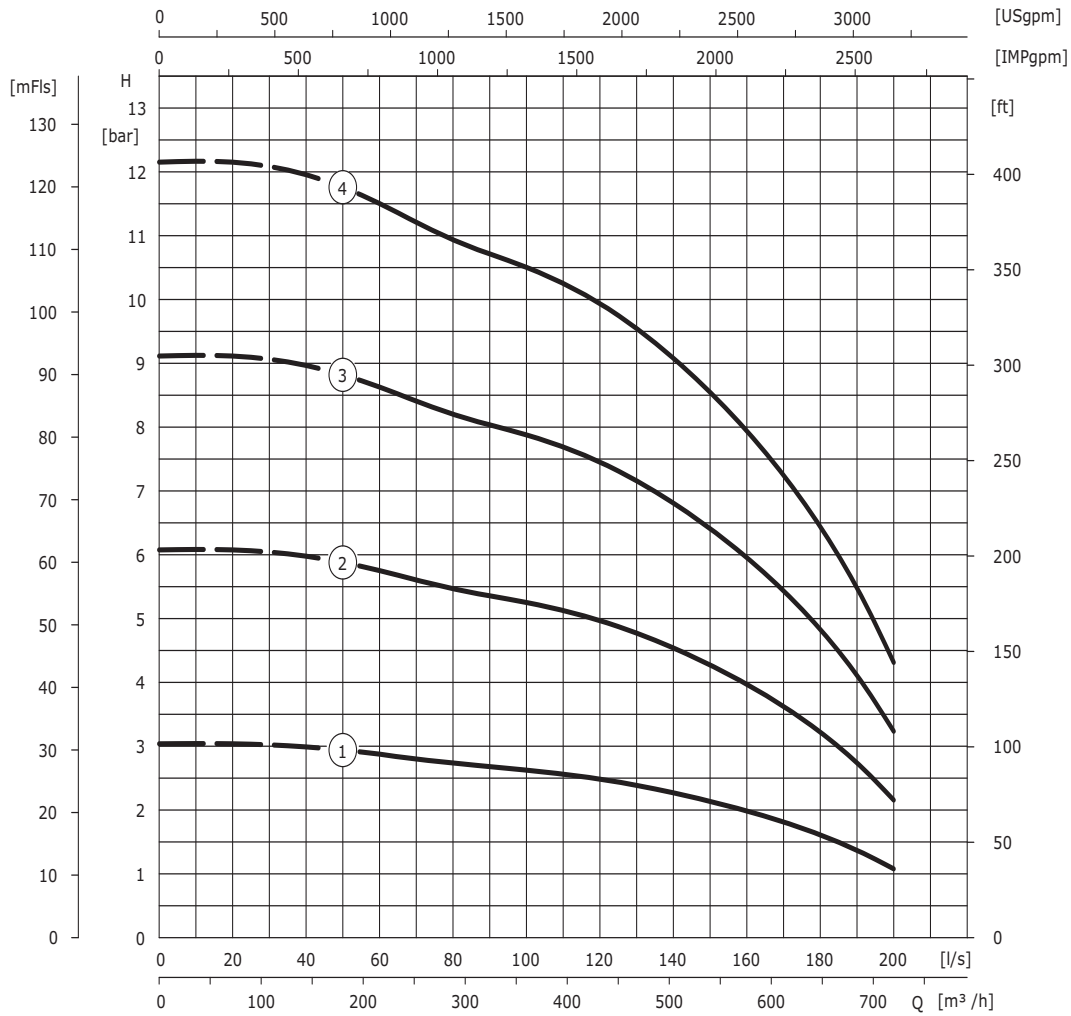
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ –, ⁴⁾ Only with motor M9I, ⁵⁾ –, ⁶⁾ –, ⁷⁾ On request, * only with DN 150

Special Pumps

Wilo-EMU polder pumps

Pump curves Wilo-EMU D 500P

Wilo-EMU D 500P



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilco-EMU D 500P

Technical data

Wilco-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	-
				[kW]	[A]	[kW]	[A]	-
D 500P-1	1	A	M 12-4/45	75.00	159	45.0	99	V
D 500P-2	2	A	M 12-4/55	91.00	190	85.0	179	V
D 500P-3	3	A	M 12-4/75	128.00	270	128.0	270	V
D 500P-4	4	A	M 12-4/110	183.00	380	173.0	355	V
D 500P-4	4	A	M 156-4/64	184.00	365	173.0	345	V

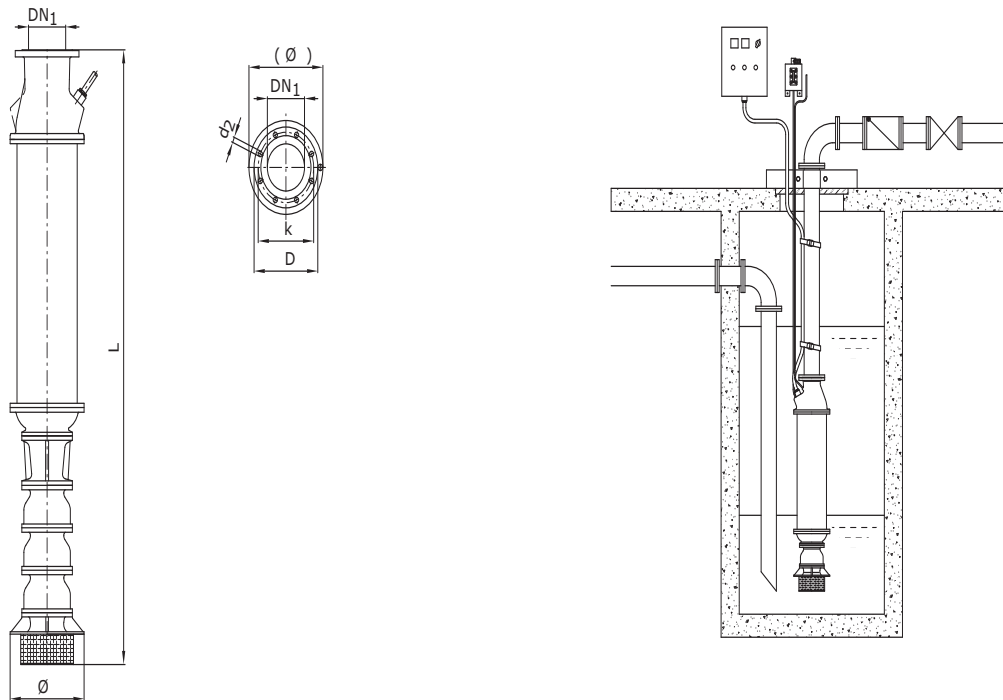
* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on requests on stock, order-related manufacture ca. 2 weeks

Special Pumps

Wilo-EMU polder pumps

Dimensions, weights Wilo-EMU D 500P

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions		Weight
		L	max. ϕ ³⁾	Aggregate
				[mm]
D 500P-1	M 12-4/45	2596	605	1090.0
D 500P-2	M 12-4/55	2996	605	1235.0
D 500P-3	M 12-4/75	3496	605	1415.0
D 500P-4	M 12-4/110	4146	605	1651.0
D 500P-4	M 156-4/64	3743	605	1750.0

Accessories Wilco-EMU D 500P

Flange dimensions

Wilco-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
D 500P...	DN 300	-	-	10	-	-	12x22	400	445
	DN 300	-	-	16	-	-	12x26	410	460

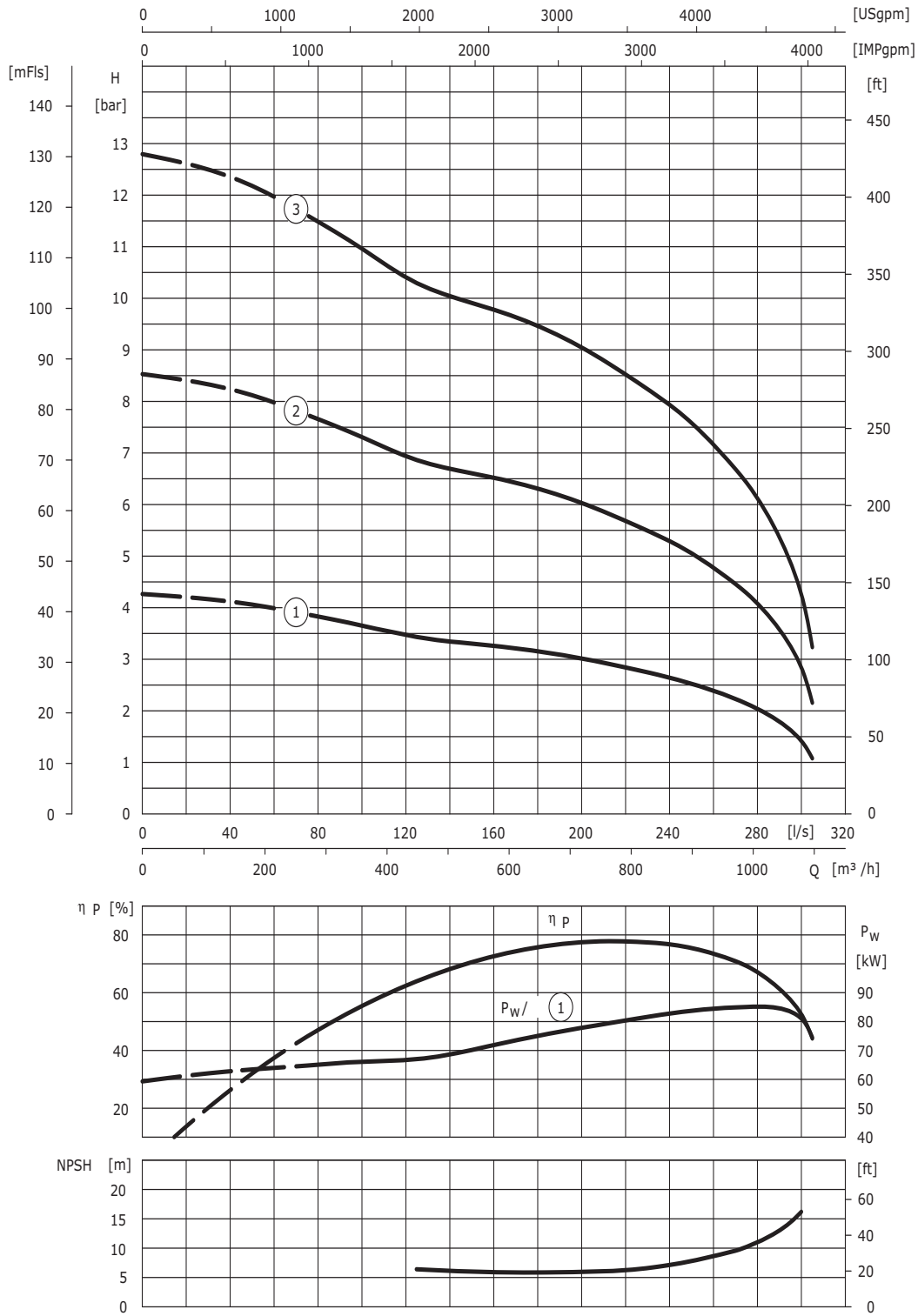
Pump without non-return valve. ¹⁾ On request, ²⁾ 500V, ³⁾ -, ⁴⁾ -, ⁵⁾ -, ⁶⁾ -, ⁷⁾ -

Special Pumps

Wilo-EMU polder pumps

Pump curves Wilo-EMU K 221P

Wilo-EMU K 221P



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilo-EMU K 221P

Technical data

Wilo-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	-
				[kW]	[A]	[kW]	[A]	-
K 221P-1	1	A	M 12-4/55	91.00	190	88.0	185	V
K 221P-2	2	A	M 12-4/110	183.00	375	175.0	360	V
K 221P-2	2	A	M 156-4/64	184.00	365	175.0	345	V
K 221P-3	3	A	M 156-4/110	290.00	580	263.0	520	V

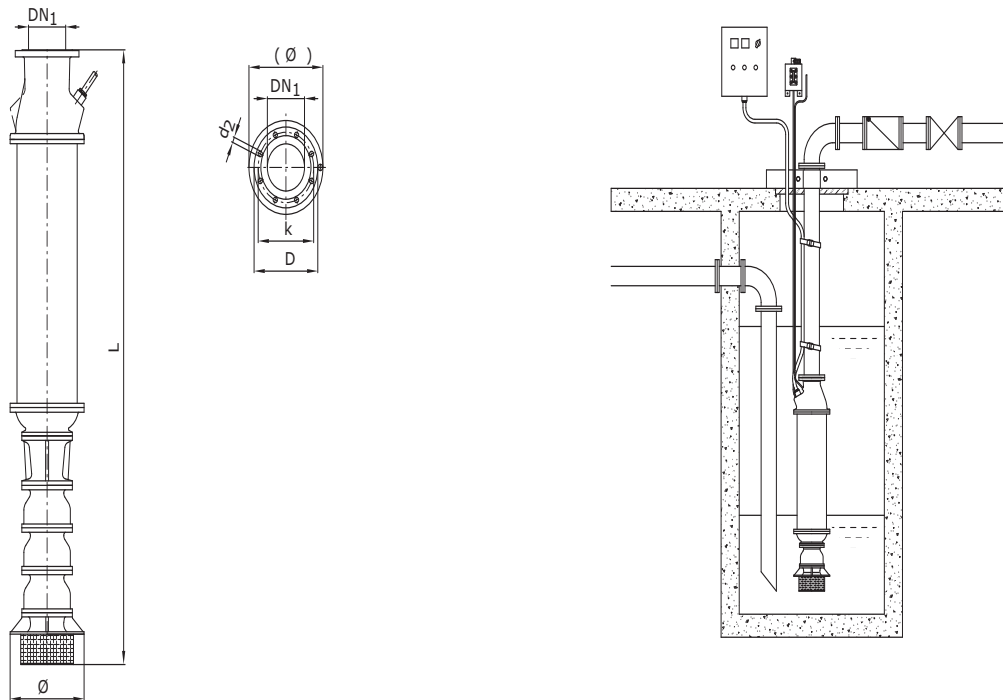
* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on requests on stock, order-related manufacture ca. 2 weeks

Special Pumps

Wilo-EMU polder pumps

Dimensions, weights Wilo-EMU K 221P

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions		Weight
		L	max. ϕ ³⁾	Aggregate
				[mm]
K 221P-1	M 12-4/55	1)	690	1)
K 221P-2	M 12-4/110	1)	690	1)
K 221P-2	M 156-4/64	1)	690	1)
K 221P-3	M 156-4/110	1)	690	1)

Accessories Wilo-EMU K 221P

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
K 221P...	DN 300	–	–	10	–	–	12x22	400	445
	DN 300	–	–	16	–	–	12x26	410	460

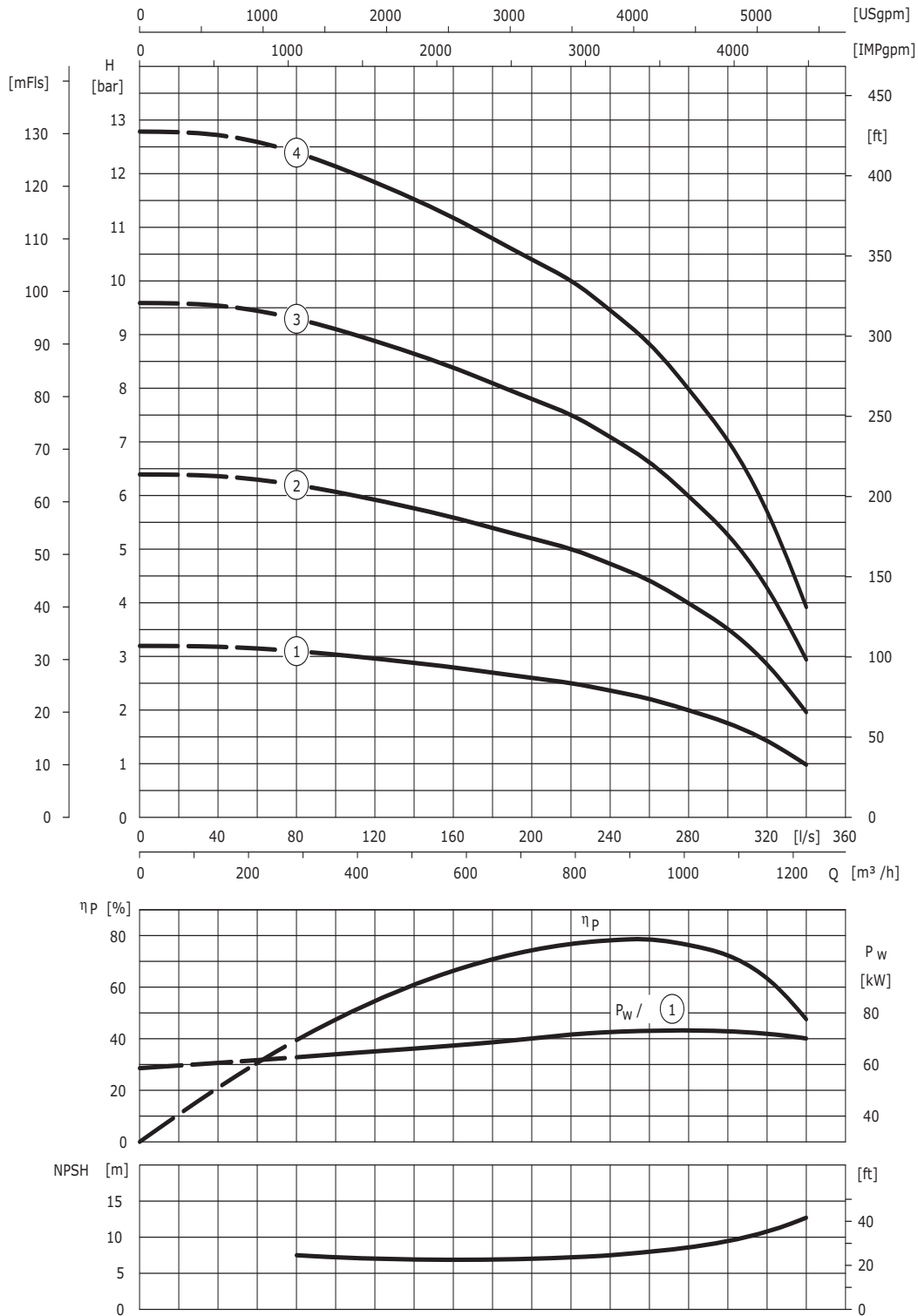
Pump without non-return valve, ¹⁾ On request, ²⁾ 500V, ³⁾ –, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ –

Special Pumps

Wilo-EMU polder pumps

Pump curves Wilo-EMU DCH 980P

Wilo-EMU DCH 980P



400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9906 appendix A

Technical data Wilco-EMU DCH 980P

Technical data

Wilco-EMU...	No.	Availa- bility*	Motor type	Nominal power	Nominal current	Shaft power	Current for power require- ment of the shaft	Inst.
				P_2	I_N	P_w	I	-
				[kW]	[A]	[kW]	[A]	-
DCH 980P-1	1	A	M 12-4/45	75.00	159	75.0	159	V
DCH 980P-2	2	A	M 12-4/100	164.00	345	150.0	315	V
DCH 980P-2	2	A	M 156-4/55	160.00	315	150.0	295	V
DCH 980P-3	3	A	M 156-4/84	230.00	455	225.0	445	V
DCH 980P-4	4	A	M 156-4/120	315.00	620	300.0	590	V

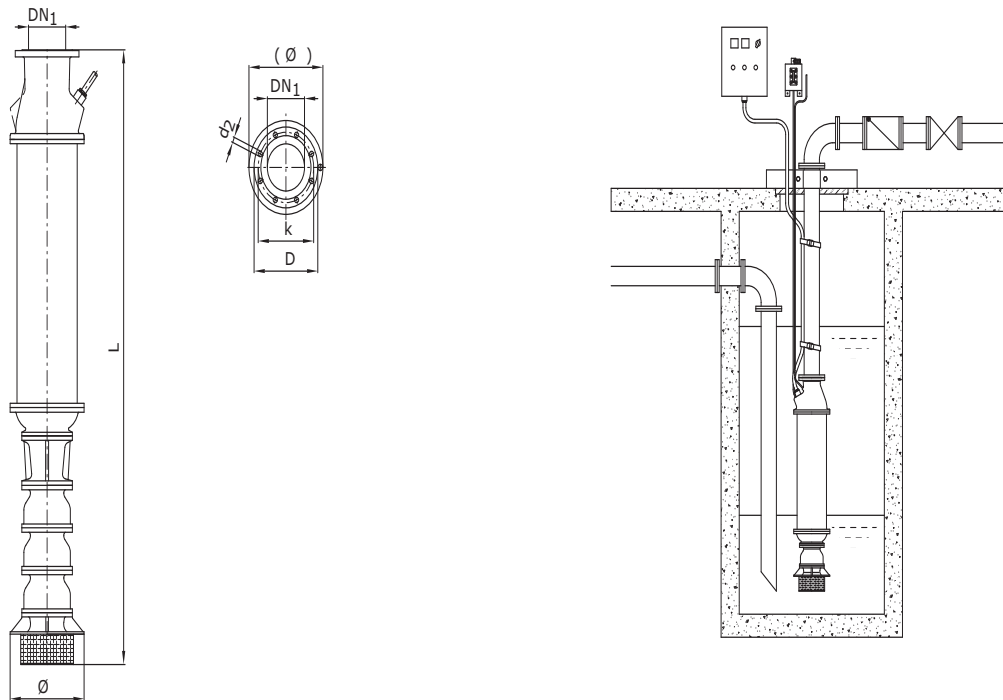
* L = stock articles; determined article in standard material version and cable for 400 V/50 Hz, A = on requests on stock, order-related manufacture ca. 2 weeks

Special Pumps

Wilo-EMU polder pumps

Dimensions, weights Wilo-EMU DCH 980P

Dimension drawing



Dimensions, weights

Wilo-EMU...	Motor type	Dimensions		Weight
		L	max. ϕ ³⁾	Aggregate
				[mm]
DCH 980P-1	M 12-4/45	2690	690	1140.0
DCH 980P-2	M 12-4/100	3590	690	1520.0
DCH 980P-2	M 156-4/55	3227	690	1700.0
DCH 980P-3	M 156-4/84	3867	690	2100.0
DCH 980P-4	M 156-4/120	4577	690	2580.0









Accessories Wilo-EMU DCH 980P

Flange dimensions

Wilo-EMU...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
DCH 980P...	DN 300	–	–	10	–	–	12x22	400	445
	DN 300	–	–	16	–	–	12x26	410	460

Pump without non-return valve. ¹⁾ On request, ²⁾ 500V, ³⁾ –, ⁴⁾ –, ⁵⁾ –, ⁶⁾ –, ⁷⁾ –

Wilo Catalogue System 2008

Heating, air-conditioning, cooling Circulating pumps Glandless pumps and accessories, package heat exchanger assembly		Catalogue A1	
Heating, air-conditioning, cooling Glanded pumps Pumps in in-line design and accessories		Catalogue A2	
Heating, air-conditioning, cooling, water supply Monobloc and norm pumps, axially split case pumps Pumps and accessories		Catalogue A3	
Water supply Domestic water supply, rainwater utilisation Pumps, systems and accessories		Catalogue B1	
Water supply Borehole pumps 3" to 24" Pumps and systems for building engineering / building services, domestic, municipal and industrial water supply		Catalogue B2	
Water supply High-pressure multistage centrifugal pumps Pumps and accessories		Catalogue B3	
Water supply Pressure boosting systems Single and multiple-pump systems in dry sump installations and accessories		Catalogue B4	
Water supply Sprinkler pumps with VdS-approval Borehole pumps and accessories		Catalogue B5	
Drainage and sewage Drainage pumps Submersible pumps, self-priming pumps and accessories		Catalogue C1	
Drainage and sewage Sewage pumps DN 32 to DN 600 Submersible pumps and accessories for building engineering / services, municipal and industrial applications		Catalogue C2	
Drainage and sewage Wastewater and sewage lifting units, pumps stations Pump systems and accessories		Catalogue C3	
Drainage and sewage Submersible mixers Mixers, re-circulation pumps, jet cleaners, grit collector pumps and accessories for municipal applications in water treatment systems		Catalogue C4	



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