

Series description: Wilo-Sub TWI 8-..-B



Wilo-Sub Ē TWI 8-..-B 360 280 200 120 40 11 15 20 30 40 50 60 80 100Q[m3/h]





Design Submersible pump, multistage

Application

- For water and potable water supply from boreholes and rainwater storage
- Process water supply .
- For municipal water supply, sprinkling and irrigation
- Pressure boosting
- Lowering the water level
- For pumping water in industrial applications
- For pumping water without long-fibre and abrasive constituents

Type key

Materials

- Standard version: Hydraulic housing: Stainless steel 1.4301
- Impellers: Stainless steel 1.4301 •
- Hydraulics shaft: Stainless steel 1.4057 •
- Motor housing: ENGJL or stainless steel 1.4301
- Motor shaft: Stainless steel 1.4021, 1.4301 or 1.4305 .
- Special version: Hydraulie Hydraulic housing: Stainless steel 1.4401
- Impellers: Stainless steel 1.4571 •
- Hydraulics shaft: Stainless steel 1.4401 ٠
- Motor housing: G-CuSn10, stainless steel 1.4401, 1.4571 (depending on type)
- Motor shaft: Stainless steel 1.4542, 1.4462 (depending on type) ٠

Subject to change without prior notice.

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Series description: Wilo-Sub TWI 8-..-B

Type key, standard version

Example:

Wilo-Sub TWI 8.80-02BSDR

тwi

Submersible pump

8

Diameter of the hydraulic unit in inches ["]

80

Rated volume flow $[m^3/h]$

02

Number of hydraulic stages

В

Series generation

SD

Starting mode Without = direct starting SD = star-delta starting

R

Motor rewindable, without = motor hermetically cast

Type key, configurable version

Example:

Wilo-Sub TWI 08.90-19-NB + NU 811-2/90

Hydraulics:

TWI 08.90-19-NB

TWI

Hydraulics

0

Configurable series

8

Diameter of the hydraulic unit in inches ["]

90

Rated volume flow $[m^3/h]$

19

Number of hydraulic stages

Ν

Impeller diameter N = standard

S = trimmed

B

Series generation

Description/design

Submersible-motor pump for vertical or horizontal installation. Hydraulics

Multistage submersible-motor pump with 6" or 8" NEMA connection and semi-axial impellers with sectional construction. Integrated non-return valve. All parts in contact with the fluid are made of corrosion-free materials.

Motor

Three-phase motor for direct or star-delta starting Sealed, hermetically cast motor, resin-impregnated, with enamel-insulated winding or rewindable motor with PVC-insulated winding, self-lubricating bearing, with water-glycol filling. NU 611, NU 8...-series motors can also be filled with potable water (T version). Cooling

The motor is cooled by the fluid. The motor must always be operated in submerged state. The limit values for the max. fluid temperature and the minimum flow rate must not be exceeded. Vertical installation is possible optionally with or without cooling jacket. Cooling jacket is required for horizontal installation.

Pressure shroud

The pressure shroud is used for direct installation of the unit in the pipe system. Standard models are without mounted non-return valves. The maximum inlet pressure is 10 bar.

General notes – ErP (ecological design–) directive • The benchmark for most efficient water pumps is MEI \ge 0.70

- The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.
- The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.
- Information on benchmark efficiency is available at www.europump.org/efficiencycharts

Configuration

- No suction mode is possible with these units!
- The unit must be fully immersed in water during operation. •

- Scope of deliveryHydraulics + motor fully assembled
- 4/8/10 m connecting cable approved for potable water with standard version models (cross-section: 4x2.5 mm² or 4x4 mm² or single conductor)
- Cable cross-section and length per customer request for configured material
- Installation and operating instructions •

Options

- Hydraulics in 1.4401 stainless steel Motor in stainless steel 1.4401, 1.4571 or G-CuSn10
- 60 Hz version
- Star/delta starting
- · Rewindable motor
- Rewindable motor with potable water filling
- Configured units for special versions



Series description: Wilo-Sub TWI 8-..-B

Motor:

NU 811-2/90

NU

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Submersible motor
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811

Size (5..., 6... = 6"; 7..., 8... = 8")

2

Number of poles

90

Package length

- Special features/product advantages

 Easy maintenance due to rapid installation and dismantling
- Integrated non-return valve
- Vertical and horizontal (stage-dependent) installation possible •
- Standard and configurable versions available
- Star/delta starting
- Cast and rewindable motors

Technical data

- Mains connection: 3~400 V, 50 Hz
- Submerged operating mode: S1
- Fluid temperature:
 - Hermetically cast motors: 3-20 °C or 3-30 °C (depending on type)
- Rewindable motors (SD-R): 3-30 °C (depending on type)
- Minimum motor flow: 0.1-0.5 m/s (depending on type)
- Max. sand content: 50 g/m
- Max. number of starts: 1020/h (depending on type)
- Max. immersion depth: 100 350 m (depending on type)
- Protection class: IP 68
- Pressure port: Rp 5

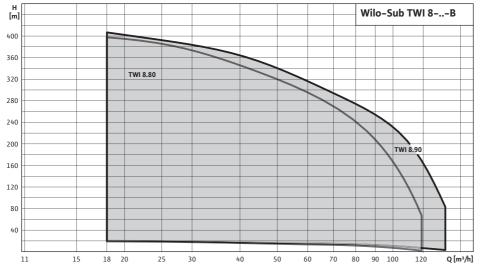
- Equipment/function

 Multistage submersible-motor pump with semi-axial impellers
- Integrated non-return valve
- NEMA coupling
- · Three-phase motor
- Hermetically cast motors
- · Rewindable motors



Duty chart: Wilo-Sub TWI 8-..-B

Pump curves



3~400 V, 50 Hz, p = 1 kg/dm3, v = 1x10-6 m2/s, ISO 9906 Annex A, η = pump efficiency

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wilo

Equipment/function: Wilo-Sub TWI 8-..-B

DesignNEMA connection•Standardised connection valve•Standardised connection valve•Without non-return valve•Without non-return valve•Without non-return valve•Single-phase AC motor•Three-phase motor•Diret activation•Star-delta activation•Star-delta activation•Rewindable motor•Oll motor filling•Water-glocin word filling•Water-glocin basellation•Portable water motor filling•Word returnet monitoring.PT100•Motor temperature monitoring.PT100•Portunning protection system•Portunning protection system•Portunning protection system•Portunning protection system•Resure shroud•Non-return walve•Pressure shroud•Non-return walve•Pressure shroud•Non-return walve•Pressure shroud•Non-return walve•Pressure shroud•Non-return walve•Pressure shroud•Non-return walve•Pressure shroud•	Desim	
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• = available, = not available

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