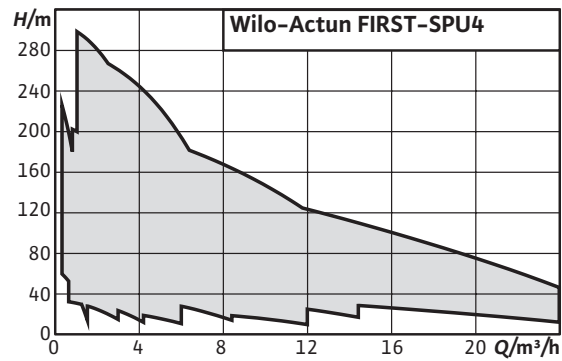




Wilo-Actun FIRST-SPU4

Design

Multistage 4" submersible pump in jacketed construction for vertical and horizontal installation

Application

- For water supply from boreholes and rainwater storage tanks
- For domestic water supply, sprinkling and irrigation
- Pressure boosting
- Lowering the water level
- For pumping water without long-fibre and abrasive constituents

Type key

E.g.	Wilo-Actun FIRST-SPU4.01-10-B/XI4-50-1-230
Actun	Family name borehole pumps
FIRST	Product series (basic)
SPU	Product type, Submersible pump for universal use with thermoplastic impellers
4	Nominal pump diameter in inch
01	Nominal flow in m³/h
10	Number of stages
B	Technical Generation
XI	Indicates mounted motor series with predominant stainless steel material (Inox)
4	Nominal motor diameter in inch
50-1-230	Electrical execution; 50 Hz, 1~ 230 V

Technical data

- Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz
- Submerged operating mode: S1

Special features/product advantages

- Parts that come in contact with fluids are corrosion-free
- Integrated non-return valve
- Low-wearing due to floating impellers
- Maintenance-friendly motor

- Fluid temperature: 3-30 °C
- Minimum flow rate at motor: 0.08 m/s
- Max. sand content: 150 g/m³
- Max. number of starts: 20/h
- Max. submersion depth: 200 m
- Protection class: IP 68
- Pressure connection: Rp 1¼ - Rp 2

Equipment/function

- Multistage submersible-motor pump with radial or semi-axial impellers
- Rewindable oil filled motor
- Integrated non-return valve
- NEMA coupling
- Single-phase or three-phase motor

Description/design

Submersible-motor pump for vertical or horizontal installation.

Hydraulics

Multistage submersible-motor pump with radial or semi-axial impellers in jacket design. Integrated non-return valve. All parts in contact with the fluid are made of corrosion-free materials.

Motor

Rewindable, corrosion-free single-phase or three-phase motor for direct starting. Sealed by mechanical seal with self-lubricating bearings, with oil filling.

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.

Materials

- Hydraulic housing: Stainless steel 1.4301
- Impellers: Noryl
- Hydraulics shaft: 1.4104 stainless steel

- Motor housing: Stainless steel 1.4301
- Motor shaft: 1.4305 stainless steel

Options

- Motor versions for special voltages 3~230 V, 50 Hz; 3~400 V, 50 Hz; 1~230 V, 60 Hz; 3~230 V, 60 Hz; 3~380 V, 60 Hz; 3~460 V, 60 Hz

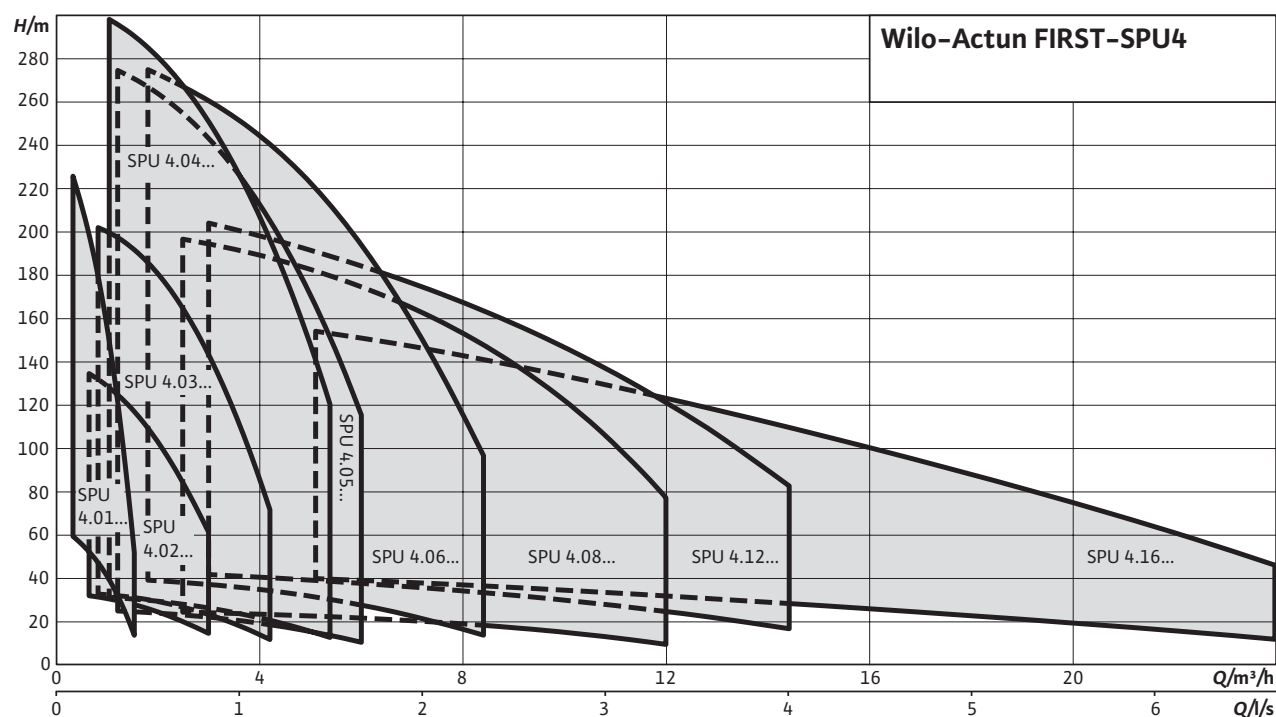
Scope of delivery

- Hydraulics + motor completely assembled
- 2.0/2.5 m connection cable (cross-section: 4x1.5 mm²)
- Installation and operating instructions

Configuration

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

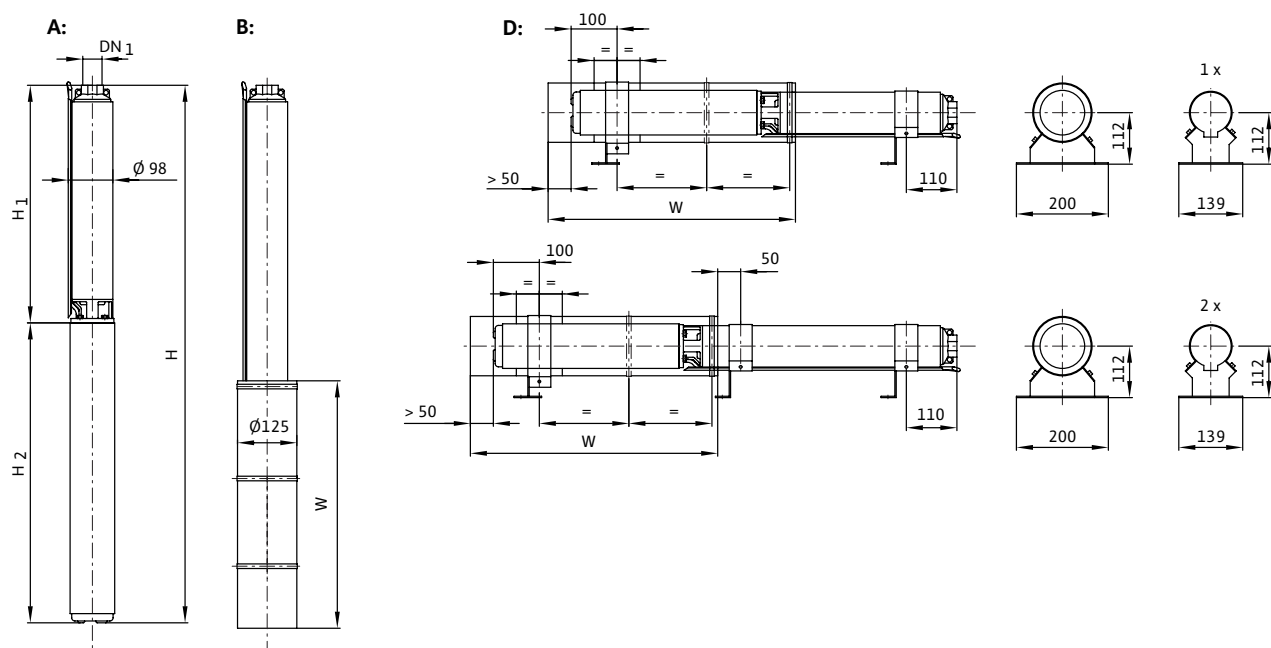
Pump curves



Motor data						
Wilo-Actun FIRST...	Mains connection	Motor diameter	Rated power	Rated current	Length of connecting cable	Cable cross-section
		Ø "	P ₂ kW	I _N A	m	mm ²
SPU4.03-05-B/XI4	1~230 V, 50 Hz	98	0.37	3.3	2	4x1,5
SPU4.03-05-B/XI4	3~400 V, 50 Hz	98	0.37	1.1	2	4x1,5
SPU4.03-08-B/XI4	1~230 V, 50 Hz	98	0.55	4.4	2	4x1,5
SPU4.03-08-B/XI4	3~400 V, 50 Hz	98	0.55	1.6	2	4x1,5
SPU4.03-11-B/XI4	1~230 V, 50 Hz	98	0.75	5.7	2	4x1,5
SPU4.03-11-B/XI4	3~400 V, 50 Hz	98	0.75	2	2	4x1,5
SPU4.03-16-B/XI4	1~230 V, 50 Hz	98	1.10	8.3	2	4x1,5
SPU4.03-16-B/XI4	3~400 V, 50 Hz	98	1.10	2.8	2	4x1,5
SPU4.03-21-B/XI4	1~230 V, 50 Hz	98	1.50	10.7	2	4x1,5
SPU4.03-21-B/XI4	3~400 V, 50 Hz	98	1.50	3.8	2	4x1,5
SPU4.03-32-B/XI4	1~230 V, 50 Hz	98	2.20	14.2	2	4x1,5
SPU4.03-32-B/XI4	3~400 V, 50 Hz	98	2.20	5.3	2	4x1,5

Information for order placements			
Wilo-Actun FIRST	Mains connection	Type of motor	Art no.
SPU4.03-05-B/XI4	1~230 V, 50 Hz	XI4-OR-0,37	6083327
SPU4.03-05-B/XI4	3~400 V, 50 Hz	XI4-OR-0,37	6083366
SPU4.03-08-B/XI4	1~230 V, 50 Hz	XI4-OR-0,55	6083328
SPU4.03-08-B/XI4	3~400 V, 50 Hz	XI4-OR-0,55	6083367
SPU4.03-11-B/XI4	1~230 V, 50 Hz	XI4-OR-0,75	6083329
SPU4.03-11-B/XI4	3~400 V, 50 Hz	XI4-OR-0,75	6083368
SPU4.03-16-B/XI4	1~230 V, 50 Hz	XI4-OR-1,1	6083330
SPU4.03-16-B/XI4	3~400 V, 50 Hz	XI4-OR-1,1	6083369
SPU4.03-21-B/XI4	1~230 V, 50 Hz	XI4-OR-1,5	6083331
SPU4.03-21-B/XI4	3~400 V, 50 Hz	XI4-OR-1,5	6083370
SPU4.03-32-B/XI4	1~230 V, 50 Hz	XI4-OR-2,2	6083332
SPU4.03-32-B/XI4	3~400 V, 50 Hz	XI4-OR-2,2	6083371

Dimension drawing Wilo-Xiro SPC



Dimensions, weights

Wilo-Actun FIRST...	Mains connection	Dimensions			Weight approx. m kg	Installation
		H1	H2 mm	H		
SPU4.03-05-B/XI4	1~230 V, 50 Hz	231	361	592	11.2	A, B, D
SPU4.03-05-B/XI4	3~400 V, 50 Hz	231	346	577	10.3	A, B, D
SPU4.03-08-B/XI4	1~230 V, 50 Hz	283	381	664	12.3	A, B, D
SPU4.03-08-B/XI4	3~400 V, 50 Hz	283	361	644	11.5	A, B, D
SPU4.03-11-B/XI4	1~230 V, 50 Hz	335	401	736	13.9	A, B, D
SPU4.03-11-B/XI4	3~400 V, 50 Hz	335	381	716	13	A, B, D
SPU4.03-16-B/XI4	1~230 V, 50 Hz	421	441	862	16.5	A, B, D
SPU4.03-16-B/XI4	3~400 V, 50 Hz	421	401	822	14.7	A, B, D
SPU4.03-21-B/XI4	1~230 V, 50 Hz	509	471	980	18.9	A, B, D
SPU4.03-21-B/XI4	3~400 V, 50 Hz	509	441	950	17.6	A, B, D
SPU4.03-32-B/XI4	1~230 V, 50 Hz	771	561	1332	26.3	A, B, D
SPU4.03-32-B/XI4	3~400 V, 50 Hz	771	471	1242	22.2	A, B, D