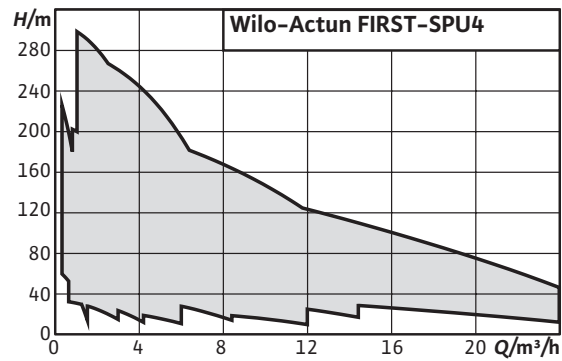




Wilo-Actun FIRST-SPU4

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

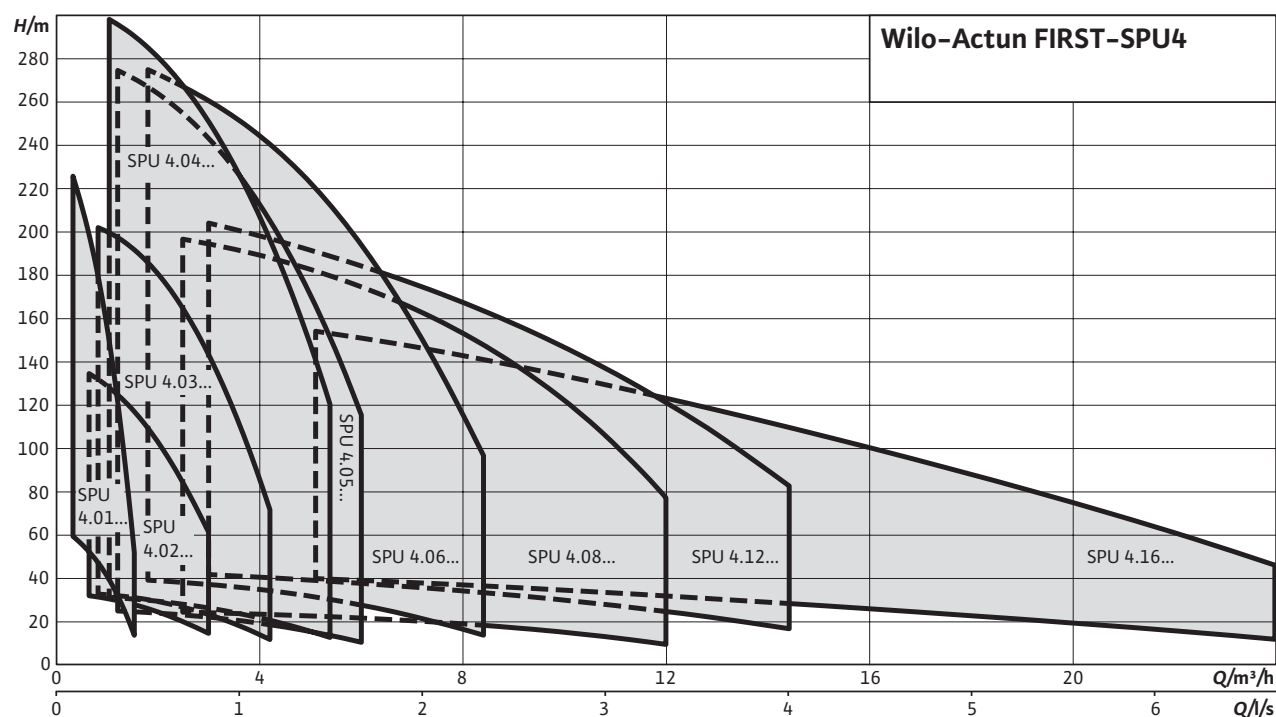
Scope of delivery

- 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.

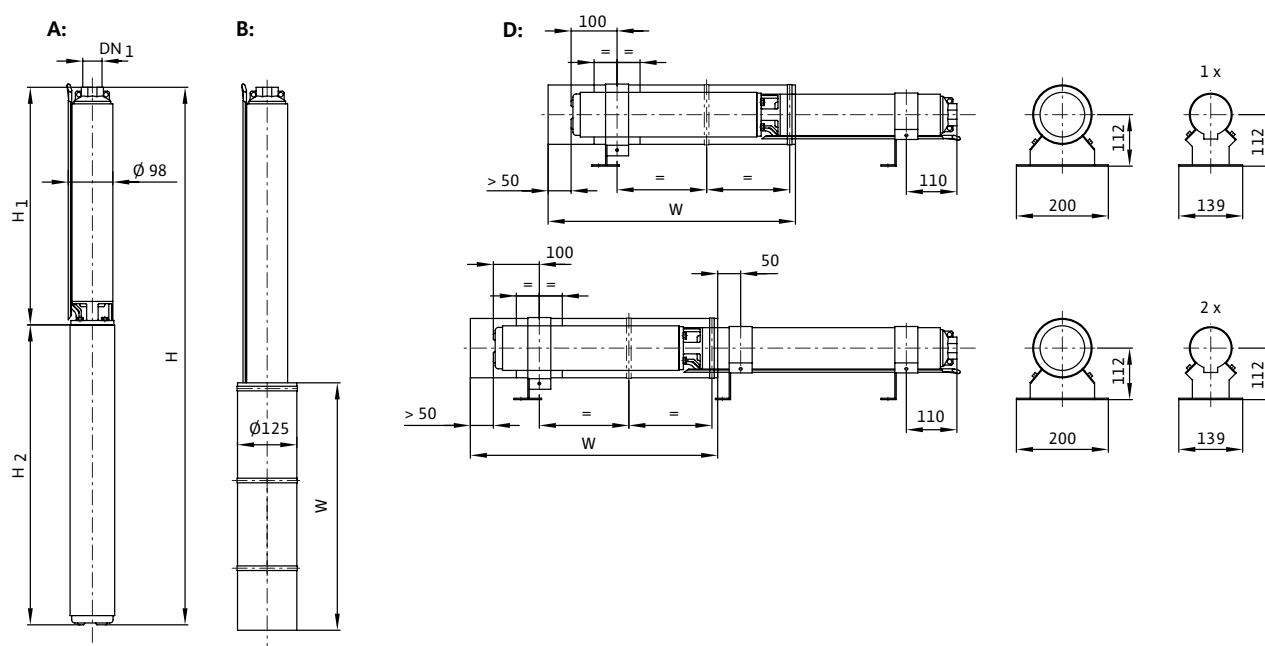
Pump curves



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
SPU4.04-05-B/XI4	1~230 V, 50 Hz	98	0.37	3.3	2	4x1,5
SPU4.04-05-B/XI4	3~400 V, 50 Hz	98	0.37	1.1	2	4x1,5
SPU4.04-07-B/XI4	1~230 V, 50 Hz	98	0.55	4.4	2	4x1,5
SPU4.04-07-B/XI4	3~400 V, 50 Hz	98	0.55	1.6	2	4x1,5
SPU4.04-09-B/XI4	1~230 V, 50 Hz	98	0.75	5.7	2	4x1,5
SPU4.04-09-B/XI4	3~400 V, 50 Hz	98	0.75	2	2	4x1,5
SPU4.04-14-B/XI4	1~230 V, 50 Hz	98	1.10	8.3	2	4x1,5
SPU4.04-14-B/XI4	3~400 V, 50 Hz	98	1.10	2.8	2	4x1,5
SPU4.04-18-B/XI4	1~230 V, 50 Hz	98	1.50	10.7	2	4x1,5
SPU4.04-18-B/XI4	3~400 V, 50 Hz	98	1.50	3.8	2	4x1,5
SPU4.04-27-B/XI4	1~230 V, 50 Hz	98	2.20	14.2	2	4x1,5
SPU4.04-27-B/XI4	3~400 V, 50 Hz	98	2.20	5.3	2	4x1,5
SPU4.04-35-B/XI4	3~400 V, 50 Hz	98	3.00	7.2	2	4x1,5
SPU4.04-48-B/XI4	3~400 V, 50 Hz	98	4.00	9.5	2.5	4x1,5

Information for order placements			
Wilo-Actun FIRST	Mains connection	Type of motor	Art no.
SPU4.04-05-B/XI4	1~230 V, 50 Hz	XI4-OR-0,37	6083333
SPU4.04-05-B/XI4	3~400 V, 50 Hz	XI4-OR-0,37	6083372
SPU4.04-07-B/XI4	1~230 V, 50 Hz	XI4-OR-0,55	6083334
SPU4.04-07-B/XI4	3~400 V, 50 Hz	XI4-OR-0,55	6083373
SPU4.04-09-B/XI4	1~230 V, 50 Hz	XI4-OR-0,75	6083335
SPU4.04-09-B/XI4	3~400 V, 50 Hz	XI4-OR-0,75	6083374
SPU4.04-14-B/XI4	1~230 V, 50 Hz	XI4-OR-1,1	6083336
SPU4.04-14-B/XI4	3~400 V, 50 Hz	XI4-OR-1,1	6083375
SPU4.04-18-B/XI4	1~230 V, 50 Hz	XI4-OR-1,5	6083337
SPU4.04-18-B/XI4	3~400 V, 50 Hz	XI4-OR-1,5	6083376
SPU4.04-27-B/XI4	1~230 V, 50 Hz	XI4-OR-2,2	6083338
SPU4.04-27-B/XI4	3~400 V, 50 Hz	XI4-OR-2,2	6083377
SPU4.04-35-B/XI4	3~400 V, 50 Hz	XI4-OR-3	6083378
SPU4.04-48-B/XI4	3~400 V, 50 Hz	XI4-OR-4	6083379

Dimension drawing Wilo-Xiro SPC



Dimensions, weights

Wilo-Actun FIRST...	Mains connection	Dimensions			Weight approx. m kg	Installation
		H1	H2 mm	H		
SPU4.04-05-B/XI4	1~230 V, 50 Hz	257	361	618	11.4	A, B, D
SPU4.04-05-B/XI4	3~400 V, 50 Hz	257	346	603	10.5	A, B, D
SPU4.04-07-B/XI4	1~230 V, 50 Hz	301	381	682	12.4	A, B, D
SPU4.04-07-B/XI4	3~400 V, 50 Hz	301	361	662	11.6	A, B, D
SPU4.04-09-B/XI4	1~230 V, 50 Hz	344	401	745	13.8	A, B, D
SPU4.04-09-B/XI4	3~400 V, 50 Hz	344	381	725	12.9	A, B, D
SPU4.04-14-B/XI4	1~230 V, 50 Hz	462	441	903	16.4	A, B, D
SPU4.04-14-B/XI4	3~400 V, 50 Hz	462	401	863	14.6	A, B, D
SPU4.04-18-B/XI4	1~230 V, 50 Hz	538	471	1009	18.5	A, B, D
SPU4.04-18-B/XI4	3~400 V, 50 Hz	538	441	979	17.2	A, B, D
SPU4.04-27-B/XI4	1~230 V, 50 Hz	805	561	1366	25.4	A, B, D
SPU4.04-27-B/XI4	3~400 V, 50 Hz	805	471	1276	21.3	A, B, D
SPU4.04-35-B/XI4	3~400 V, 50 Hz	972	530	1502	25.4	A, B, D
SPU4.04-48-B/XI4	3~400 V, 50 Hz	1291	600	1891	30.9	A, B, D

Pump with non-return valve, ¹⁾ On request, ³⁾ Max. ϕ for power cable configuration in accordance with I_N