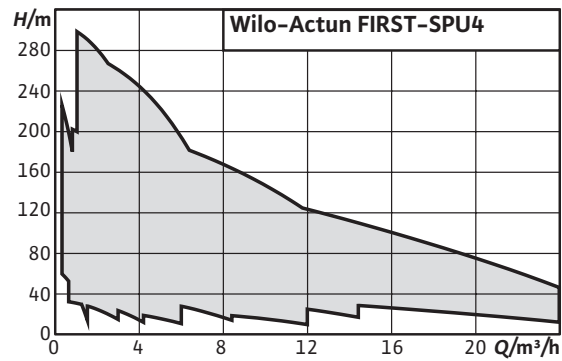




Wilo-Actun FIRST-SPU4

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

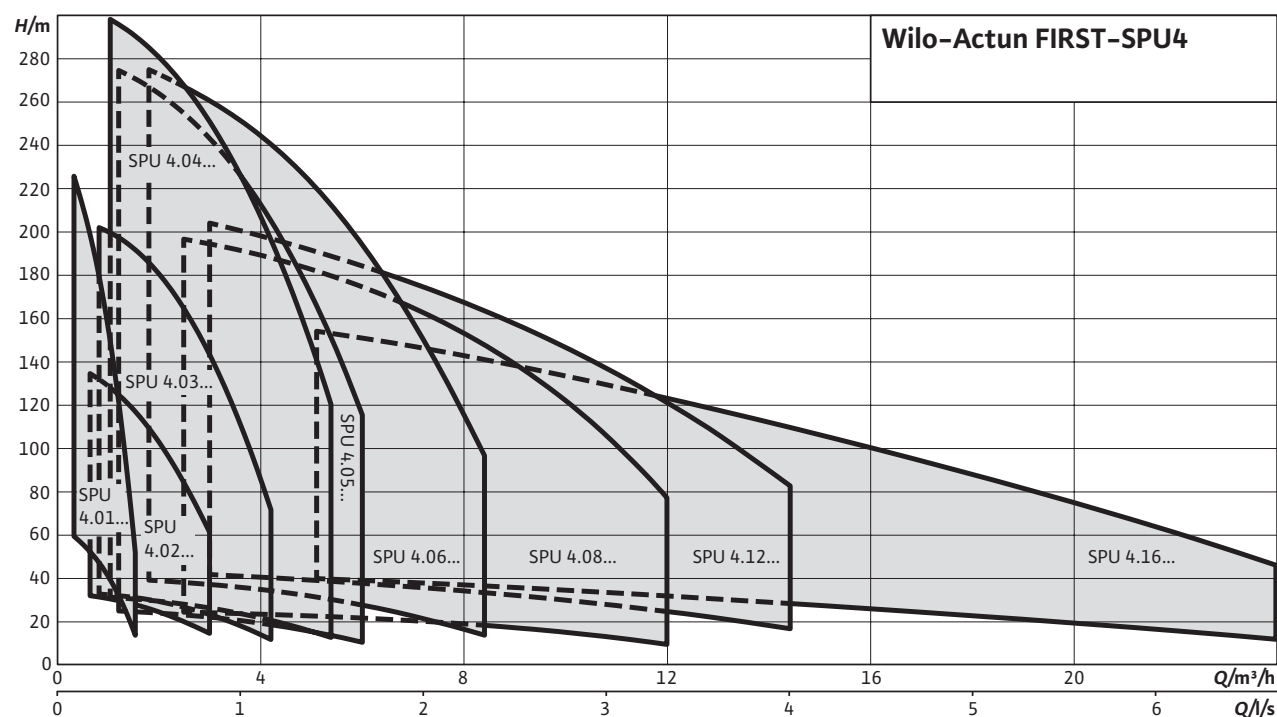
Scope of delivery

- 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.

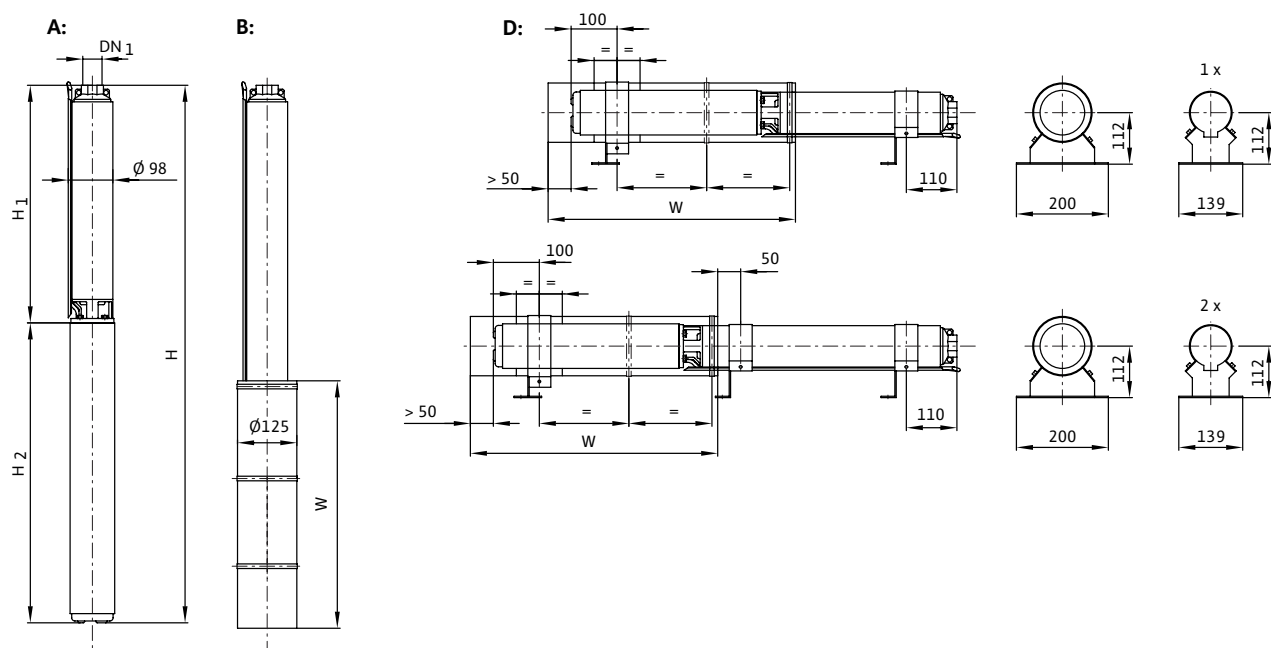
Pump curves



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
SPU4.05-04-B/XI4	1~230 V, 50 Hz	98	0.37	3.3	2	4x1,5
SPU4.05-04-B/XI4	3~400 V, 50 Hz	98	0.37	1.1	2	4x1,5
SPU4.05-06-B/XI4	1~230 V, 50 Hz	98	0.55	4.4	2	4x1,5
SPU4.05-06-B/XI4	3~400 V, 50 Hz	98	0.55	1.6	2	4x1,5
SPU4.05-08-B/XI4	1~230 V, 50 Hz	98	0.75	5.7	2	4x1,5
SPU4.05-08-B/XI4	3~400 V, 50 Hz	98	0.75	2	2	4x1,5
SPU4.05-12-B/XI4	1~230 V, 50 Hz	98	1.10	8.3	2	4x1,5
SPU4.05-12-B/XI4	3~400 V, 50 Hz	98	1.10	2.8	2	4x1,5
SPU4.05-16-B/XI4	1~230 V, 50 Hz	98	1.50	10.7	2	4x1,5
SPU4.05-16-B/XI4	3~400 V, 50 Hz	98	1.50	3.8	2	4x1,5
SPU4.05-24-B/XI4	1~230 V, 50 Hz	98	2.20	14.2	2	4x1,5
SPU4.05-24-B/XI4	3~400 V, 50 Hz	98	2.20	5.3	2	4x1,5
SPU4.05-32-B/XI4	3~400 V, 50 Hz	98	3.00	7.2	2	4x1,5
SPU4.05-44-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.
SPU4.05-04-B/XI4	1~230 V, 50 Hz	XI4-OR-0,37	6083339
SPU4.05-04-B/XI4	3~400 V, 50 Hz	XI4-OR-0,37	6083380
SPU4.05-06-B/XI4	1~230 V, 50 Hz	XI4-OR-0,55	6083340
SPU4.05-06-B/XI4	3~400 V, 50 Hz	XI4-OR-0,55	6083381
SPU4.05-08-B/XI4	1~230 V, 50 Hz	XI4-OR-0,75	6083341
SPU4.05-08-B/XI4	3~400 V, 50 Hz	XI4-OR-0,75	6083382
SPU4.05-12-B/XI4	1~230 V, 50 Hz	XI4-OR-1,1	6083342
SPU4.05-12-B/XI4	3~400 V, 50 Hz	XI4-OR-1,1	6083383
SPU4.05-16-B/XI4	1~230 V, 50 Hz	XI4-OR-1,5	6083343
SPU4.05-16-B/XI4	3~400 V, 50 Hz	XI4-OR-1,5	6083384
SPU4.05-24-B/XI4	1~230 V, 50 Hz	XI4-OR-2,2	6083344
SPU4.05-24-B/XI4	3~400 V, 50 Hz	XI4-OR-2,2	6083385
SPU4.05-32-B/XI4	3~400 V, 50 Hz	XI4-OR-3	6083386
SPU4.05-44-B/XI4	3~400 V, 50 Hz	XI4-OR-4	6083387

Dimension drawing Wilo-Xiro SPC



Dimensions, weights

Wilo-Actun FIRST...	Mains connection	Dimensions			Weight approx. m kg	Installation
		H1	H2 mm	H		
SPU4.05-04-B/XI4	1~230 V, 50 Hz	249	361	610	11.1	A, B, D
SPU4.05-04-B/XI4	3~400 V, 50 Hz	249	346	595	10.2	A, B, D
SPU4.05-06-B/XI4	1~230 V, 50 Hz	299	381	680	12.3	A, B, D
SPU4.05-06-B/XI4	3~400 V, 50 Hz	299	361	660	11.5	A, B, D
SPU4.05-08-B/XI4	1~230 V, 50 Hz	348	401	749	13.8	A, B, D
SPU4.05-08-B/XI4	3~400 V, 50 Hz	348	381	729	12.9	A, B, D
SPU4.05-12-B/XI4	1~230 V, 50 Hz	437	441	878	16.5	A, B, D
SPU4.05-12-B/XI4	3~400 V, 50 Hz	437	401	838	14.7	A, B, D
SPU4.05-16-B/XI4	1~230 V, 50 Hz	547	471	1018	18.9	A, B, D
SPU4.05-16-B/XI4	3~400 V, 50 Hz	547	441	988	17.6	A, B, D
SPU4.05-24-B/XI4	1~230 V, 50 Hz	823	561	1384	25.9	A, B, D
SPU4.05-24-B/XI4	3~400 V, 50 Hz	823	471	1294	21.8	A, B, D
SPU4.05-32-B/XI4	3~400 V, 50 Hz	1013	530	1543	26.3	A, B, D
SPU4.05-44-B/XI4	3~400 V, 50 Hz	1347	600	1947	32.4	A, B, D