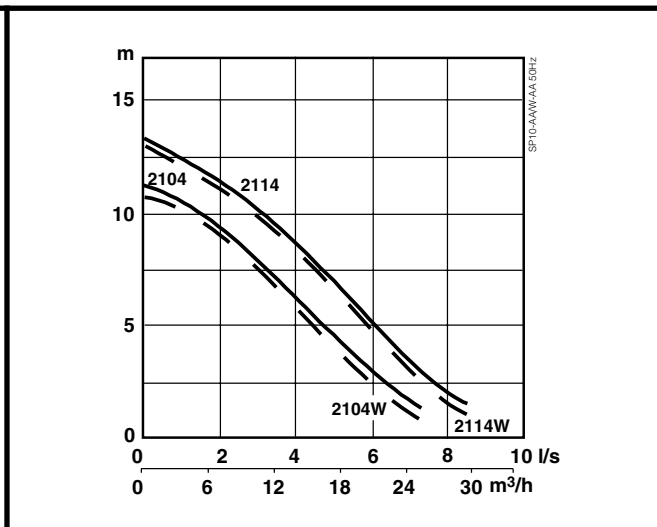
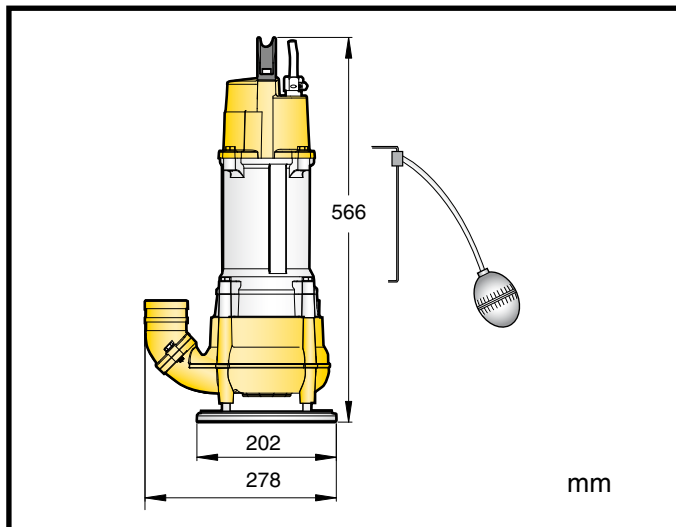


Submersible SP 10 sludge pump SP 10 W



Specification

Electric submersible pump.
 Maximum submergence: 20 m. Protection class IP 68.
 Max temperature of pumped medium at max power input and continuous duty 40°C.
 Max medium density 1100 kg/m³. pH of the pumped medium 5-8.
 Volute with free passage Ø 40 mm. Max no. of starts 30/hour.
 Max impeller diameter requires half motor or more submersed for continuous duty. (Pump can operate lying down.)

Pump Types

- SP 10 W-2104*/-2114 single-phase
- SP 10 WA-2104*/-2114 single-phase (built-in float switch)
- SP 10-2104*/-2114 3-phase
- SP 10A-2104*/-2114 3-phase (built-in float switch, excl. 500V)

* Impeller diameter for duty with low water level or intermittent dry running.

Electric Motor

Single-phase motor with built-in capacitor, 50Hz
 Service factor 1.1. Class F insulation.
 Max. power input P₁: 1.2 kW. Motor rating P₂: 0.9 kW.
 Speed: 2850 rpm

Voltage, V	230
Nominal current, A	5.1

3-phase squirrel-cage induction motor, 50Hz.
 Service factor 1.1. Class F insulation.
 Max. power input P₁: 1.2 kW. Motor rating P₂: 0.9 kW.
 Speed: 2850 rpm
 D.O.L. start with built-in contactor

Voltage, V	230	400	500
Nominal current, A	3.3	1.9	1.5

Power Cable

20 m type S1BN8-F:
 4 x 1.5 sq.mm. (3-phase)
 3 x 1.5 sq.mm. (single-phase)

Motor Protection

Built-in thermal switches in the stator winding (140°C, ±5).

Shaft Seal

Double mechanical seal in oil bath.

- Primary seal: Silicon carbide on silicon carbide
- Secondary seal: Silicon carbide on silicon carbide

Bearings

- Upper bearing: Single-row deep groove ball bearing
- Lower bearing: Single-row deep groove ball bearing

Materials

		EN	ASTM
Motor housing:	Aluminium	EN 1706: AC-43100	ASTM AISI10mg
Fasteners:	Stainless steel	10088: X5CrNi18-10 (1.4301)	AISI 304
Rotor shaft:	Stainless steel	10088: X20Cr13 (1.4021)	AISI 420
Volute, impeller:	Nodular cast iron	1563: ENGJS-HB150	ASTM A 536-80: 60-40-18
O-rings:	Nitrile rubber		

Discharge Connections

2" (standard), 2 ½", 3" hose connections
 2", 2 ½", 3" B.S.P. threaded connections

Weight (without cable)

18 kg

Options and Accessories

Zinc anodes. Surface protection coating
 Starter and control units. PumpFloater. Service kit
 Discharge connection accessories and hose

SP10.02.1007.Eng50Hz
 The manufacturer reserves the right to alter performance, specifications or design without notice.

