

SFM 70

Peripheral submersible borehole pumps for 4" wells



Construction

Submersible borehole pumps for 4" deep wells (DN 100 mm), with turbine impeller.

The special plastic and stainless steel hydraulic materials prevent the impeller from locking even after long stationary periods.

Thanks to special construction features, both installation and maintenance of SFM 70 are fast and easy.

Delivery port G 1.

Applications

For 4" wells.

Pumping clean water into: detached houses, farms and cottages.

Moving water in fountains.

Rain irrigation.

Feeding pressure systems.

Filling and emptying tanks.

Operating conditions

Water temperature up to 35 °C.

Max. sand quantity into the water: 20 g/m³.

Continuous duty.

Motor

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).

SFM 70: single-phase 230 V, with thermal protector.

Incorporated capacitor.

Cable suitable for use with drinking water 3x1,5 + 1G1,5mm².

Cable length 20 m.

Insulation class F.

Protection IP X8 (for continuous immersion)

Dielectric fluid-cooled motor with compensating diaphragm.

Constructed in accordance with: EN 60335-2-41.

Materials

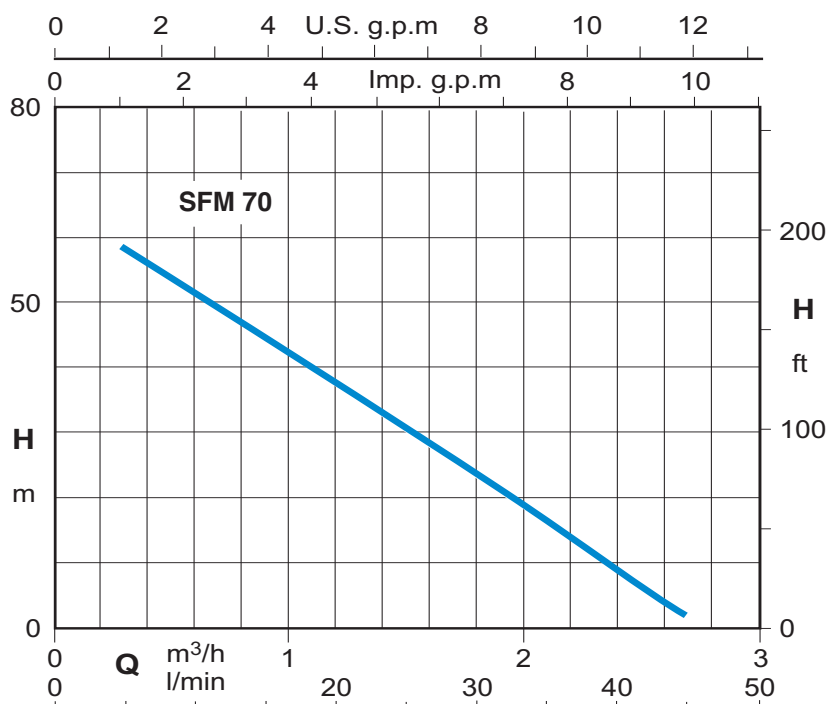
Components	Materials
Delivery casing	Nylon PA66 +30% GF (brass thread inserts)
Upper plate	Ryton R4 with a shim ring in chrome-nickel steel 1.4301
Lower plate	EN 10088 (AISI 304) integrated
Impellers	Brass P-Cu Zn 40 Pb 2 UNI 5705
Shaft	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Shell, filter, locking plugs	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Screws steel	A2

Special features on request

- Other voltages.

- Frequency 60 Hz (as per 60 Hz data sheet).

Characteristic curve n ≈ 2900 rpm



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Coverage chart $n \approx 2900$ rpm

1~	230V	P ₁	P ₂		m ³ /h	0	0,3	0,6	0,9	1,2	1,5	1,8	2,1	2,4	2,7
	A	kW	kW	HP	Q l/min	0	5	10	15	20	20	30	35	40	45
SFM 70	5,9	1,4	0,75	1	H	65	58	52	44	37,8	30,1	22	14,7	7,6	1,2

P₁ Max. power input.

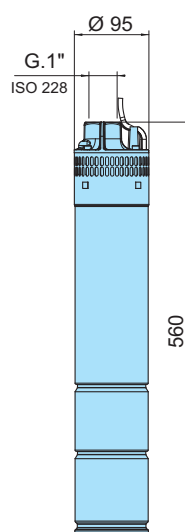
P₂ Rated motor power output

Tolerances according to UNI EN ISO 9906:2012

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³.

Dimensions and weights

Weight kg. 11,3



Features

Optimized hydraulics

The pump hydraulics are designed to ensure high performance and consistency of performance.

Reliability

The oil bath motor allows a better lubrication by increasing the lifetime of all the moving parts and the copper wires.

Rubustness

The mechanical structure of the hydraulic parts in contact with the pumped liquid are dimensioned to guarantee the maximum resistance to mechanical stress.

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