



Submersible progressive cavity pump set

1" - EVFU

Application

Submersible pump-set 1"-EVFU is intended for pumping potable and service water up to temperature 30 °C and acidity values ranging from 6.5 to 12 pH. In practice that pump-set of the 1"-EVFU Series may be used namely for pumping from deep wells with their depths more than 8 m. Small dimensions of the pump-set make its installation into bore holes possible.

Pumps in pump is their workmanship versions 173, 174 and 083 are destined for holes from ϕ 80 mm and they are provided with single-phase and three-phase motors.

That pump-set is suitable for instalment of water piping in one family houses, weekend houses, summer residences, kindergartens, nurseries or community institutions, plants and outbuildings, for both water supply and spraying and/or irrigation of gardens, decorative parks, sports grounds, and so on.

Design

Pump-set 1"-EVFU consists of a submersible electric motor and a helical-rotor pump of very simple design, with minimal number of parts. As the pump main part there is the stator with rubber liner in form of double knuckle thread, in cavity of which there a single thread rotates.

Material Options

Pump main parts are produced of following constructional materials:

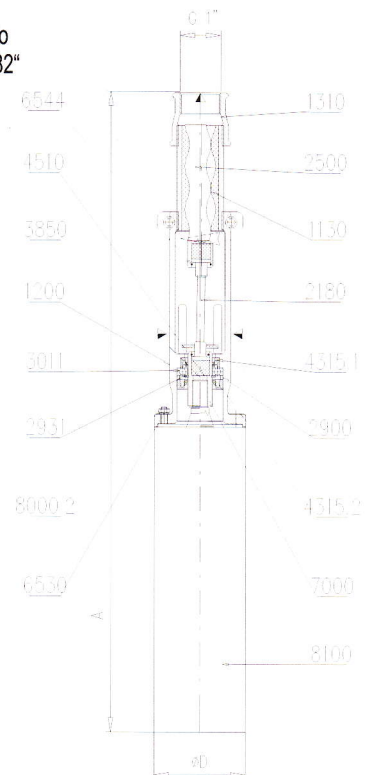
Suction casing	- grey cast iron
Discharge casing	- malleable cast iron or steel
Helix	- stainless steel
Connection rod and coupling	- stainless steel
Stator	- steel and rubber
	- As for the 174 - stainless steel and rubber

Informative section through the pump

Numbering of positions according to „EUROPUMP TERMINOLOGY 1982“

1130	Stator
1200	Suction casing
1310	Discharge casing
2180	Connection rod
2500	Helix
2900	Spacer ring
2931	Retaining ring 25
3011	Bearing
3850	Insert radial-lip
4315.1	Radiallip seal ring „gufero“
4315.2	Radiallip seal ring „gufero“
4510	Washer
6530	Washer 8
6544	Circlip
7000	Coupling
8000.2	Nut 5/16" *)
8100	Electric motor

*) Nut is an integral part of the electric motor

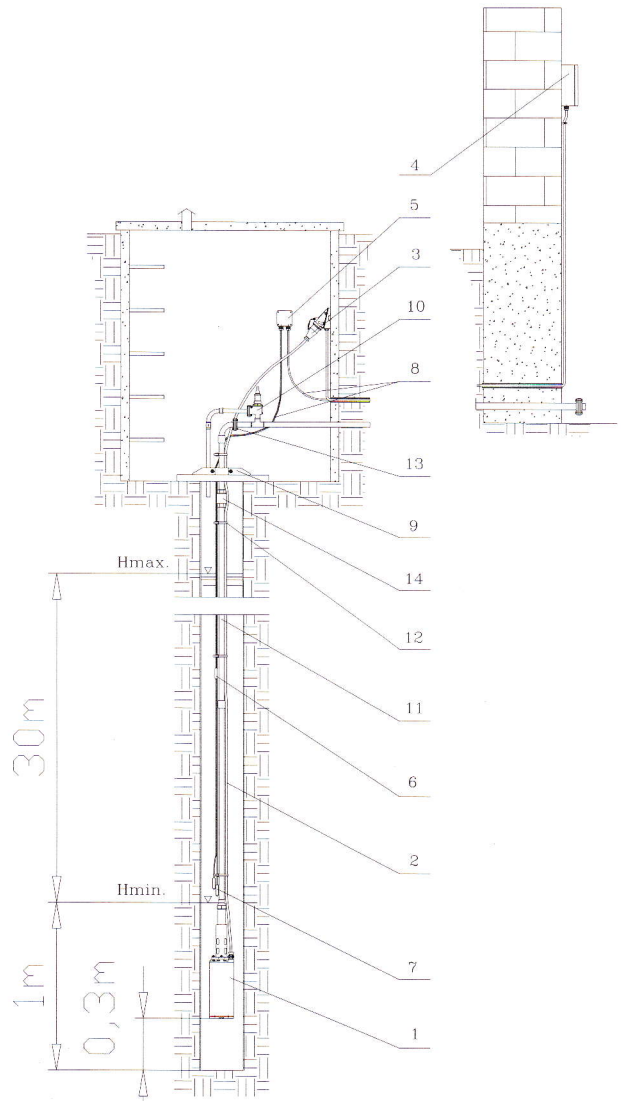
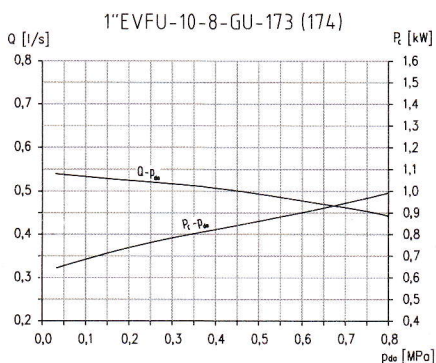
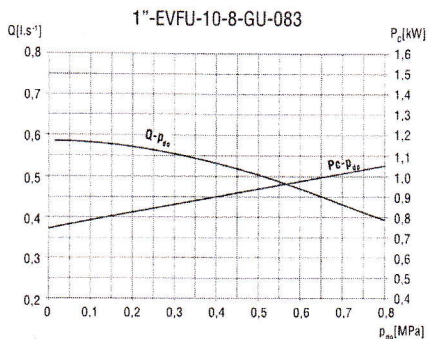
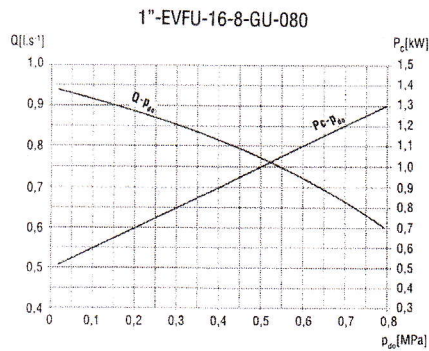
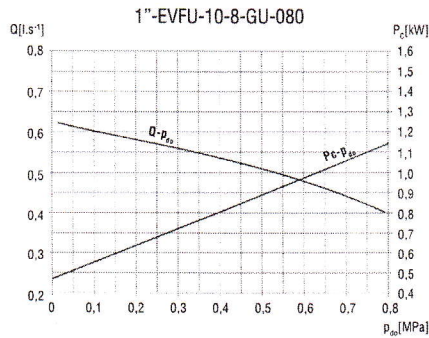
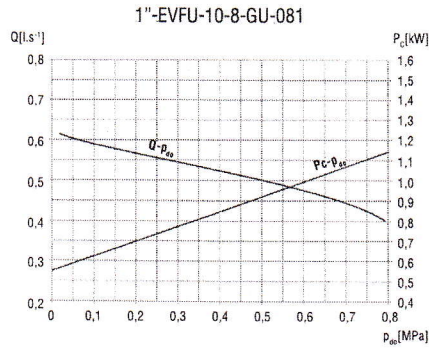


Technical data

Pump-set		1"EVFU-10-8-GU-081	1"EVFU-10-8-GU-080	1"EVFU-16-8-GU-080	1"EVFU-10-8-GU-083	1"EVFU-10-8-GU-173,174
Pump						
Max. delivery pressure	P_{do} (MPa)	0.8	0.8	0.8	0.8	0.8
Delivery head	H_{max} (m)	80	80	80	80	80
Capacity	Q (l.s ⁻¹)	0.4	0.4	0.6	0.38	0.4
Discharge connection dia.	(")	G 1"	G 1"	G 1"	G 1"	G 1"
Electric motor-type		SUMOTO OPM 150	SUMOTO OPT 150	SUMOTO OPT 150	SUMOTO OPT 100	SUMOTO OPM 100
Rated power	P (kW)	1.1	1.1	1.1	0.75	0.75
Speed	n (min ⁻¹)	2 855	2 825	2 825	2 800	2 825
Voltage	U (V)	230	400	400	400	230
Frequency	f (Hz)	50	50	50	50	50
Motor current (cut-out)	I (A)	8.2	3.4	3.4	2.5	5.85
Connecting cable	(mm ²)	4 x 1.5	4 x 1.5	4 x 1.5	4 x 1.5	4 x 1,5
Cable length (on request)	(m)	35 (25; 50)	35 (25; 50)	35 (25; 50)	35 (25; 50)	35 (25; 50)
Pump-set outside diameter	ϕ D (mm)	96	96	96	72	72
Pump-set height	A (mm)	705	670	695	760	735
Min. diameter of bore hole (well)	(mm)	100 (4")	100 (4")	100 (4")	80	80
Pump-set max. submersion under water level	(m)	30	30	30	30	30
Pump-set weight with cable af 25 m	(kg)	28.3	27	27	13.4	13,4
Cable 1 m weight	(kg)			0,165		

Informative selection chart of pump

Arrangement Version



- | | |
|-----------------------------------|---------------------------------------|
| 1 - pump set | 8 - cables of water level controllers |
| 2 - power cable | 9 - carrying clip |
| 3 - plug, socket outlet | 10 - relief valve |
| 4 - protection and control box | 11 - delivery pipeline |
| 5 - distribution box | 12 - cable clamp to pipeline |
| 6 - indicator of head-water level | 13 - flange |
| 7 - indicator of tail water level | 14 - non-return flap valve, valve |

Position No. 2 is delivered together with the pump as its standard accessories.

THIS PRODUCT IS FRIENDLY TO ENVIRONMENT



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