



# Submersible progressive cavity pump set

# 1" - EVAU

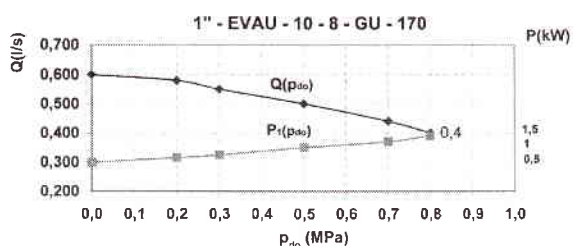
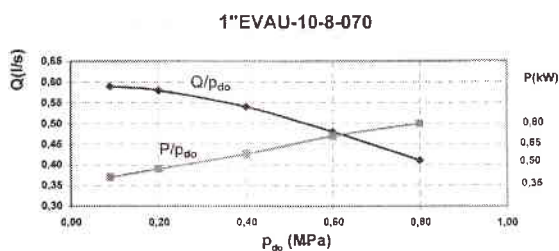
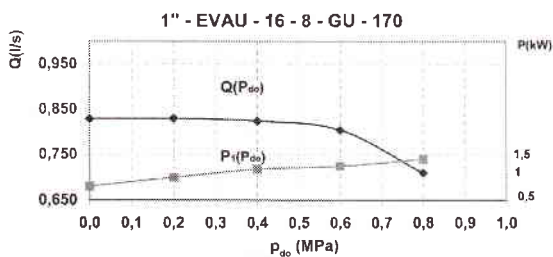
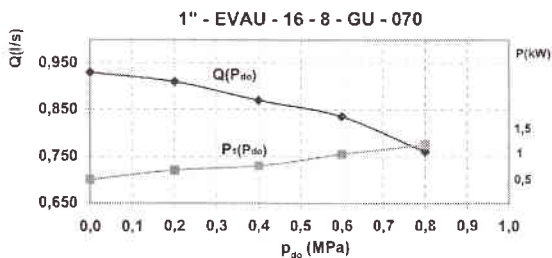
## Application

Submersible pump set 1"-EVAU is destined for pumping potable and service water up to temperature of 30 °C and density ranging from 6.5 to 12 pH.

Pump set 1"-EVAU employment is namely for deep mine water pumping from major depths than 8 m. Small size of the pump set allows its setting into deep wells,

Pump set is proper at establishing water piping in one-family houses, weekend houses, summer residences, kindergartens nurseries or community centres and plant- and out-buildings, both for water supply and for sprinkling and watering gardens, public gardens, sports grounds, and so on.

## Informative selection chart of pump



## Design

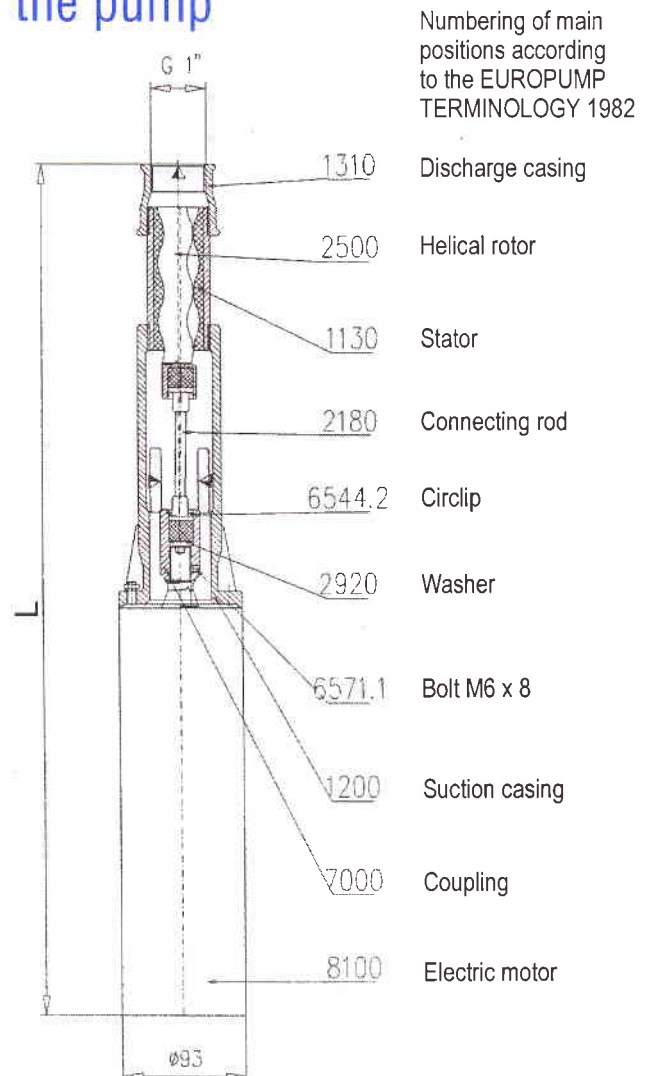
Pump set 1"-EVAU consists of a submersible electric motor and a progressive cavity pump of a very simple design with minimal number of parts. As a main part of the pump there is the stator with a rubber lining in the form of a double knuckle thread, in the cavity inside of which the helical rotor with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

## Material Options

Pump main parts are of following constructional materials:

Suction casing	- grey cast iron
Discharge casing	- malleable cast iron or steel
Helical rotor	- stainless steel
Connecting rod and coupling	- stainless steel
Stator	- steel and rubber

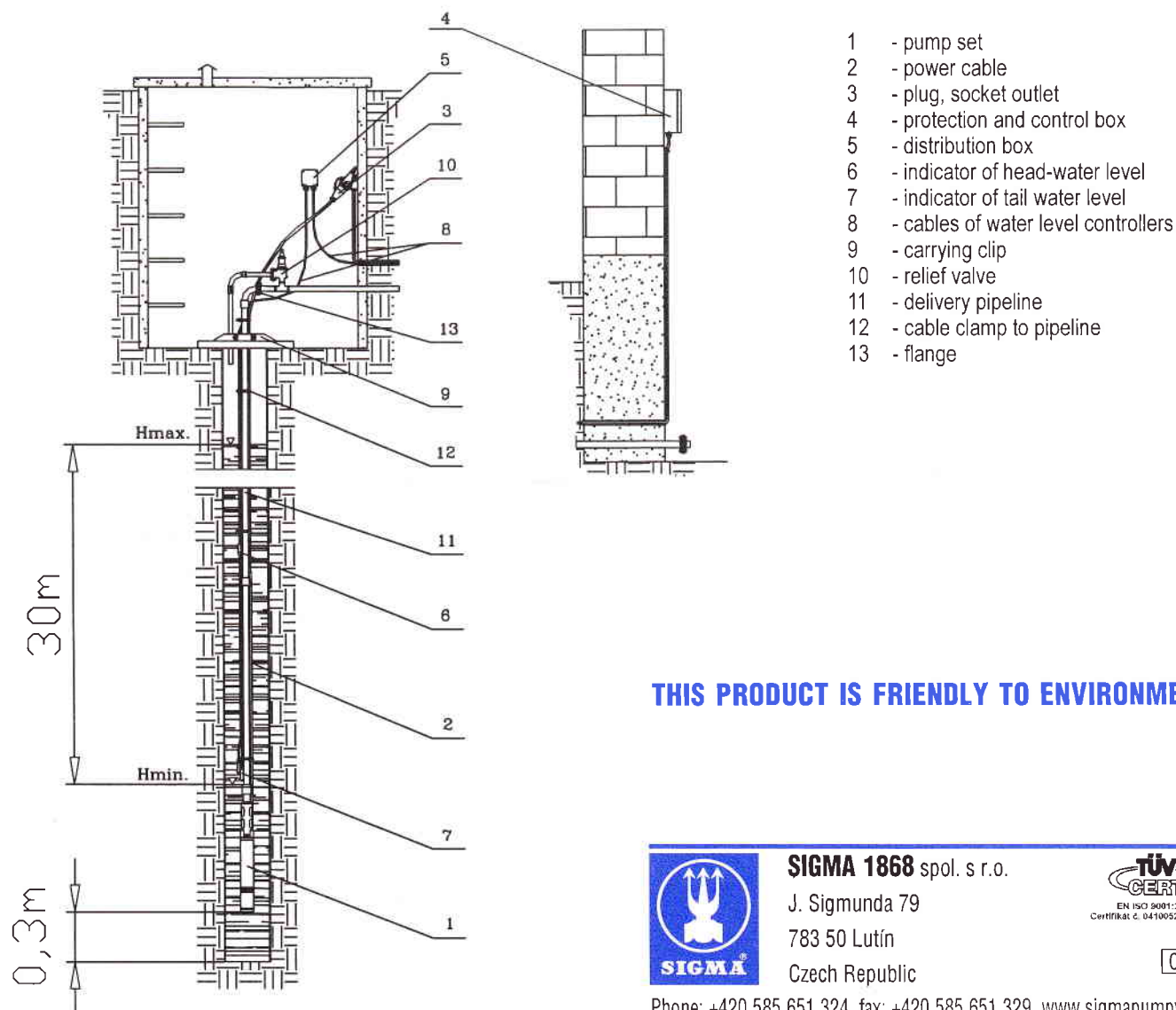
## Informative section through the pump



## Technical data

Pump set		1"-EVAU-16-8-GU-070	1"-EVAU-16-8-GU-170	1"-EVAU-10-8-GU-070	1"-EVAU-10-8-GU-170
Max. delivery pressure	$p_{do}$ (MPa)	0,8	0,8	0,8	0,8
Delivery head	$H_{max}$ (m)	80	80	80	80
Rate of flow	$Q$ (l.s <sup>-1</sup> )	0,65	0,7	0,4	0,4
Discharge coupling dia.		G1"	G1"	G1"	G1"
Electric motor		SUBTECK	SUBTECK	SUBTECK	SUBTECK
Rated power	$P$ (kW)	1,1	1,5	0,75	1,1
Speed	$n$ (min <sup>-1</sup> )	2800	2815	2900	2845
Voltage	$U$ (V)	400	230	400	230
Frequency	$f$ (Hz)	50	50	50	50
Motor current (breaking)	$I$ (A)	2,5	9,4	2	8,3
Connecting cable	(mm <sup>2</sup> )	4 x 2	4 x 2	4 x 2	4 x 2
Cable length (on wish)	(m)	25 (35; 50)	25 (35; 50)	25 (35; 50)	25 (35; 50)
Pump set outside diameter	(mm)	93	93	93	93
Pump set height	$L$ (mm)	705	705	675	705
Min. diameter of drill hole (well)	(mm)	100 (4")	100 (4")	100 (4")	100 (4")
Max. immersion of pump set under a level	(m)	40	40	40	40
Pump set weight with 25 m of cable	(kg)	27	29,7	25,8	27,2
Weight of 1 m of cable	(kg)	0,152	0,152	0,152	0,152

## Arrangement Version



**THIS PRODUCT IS FRIENDLY TO ENVIRONMENT**



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