SIGMA

Submersible sludge pump with a disintegrator

1/4" EFRU

Application

Pump set 1 1/4" EFRU is destined for pumping polluted water, liquid manure, sewage, raw waste water and thick sludge containing long-fibred stuffs and solids up to their max. size 5 mm in dia., except for sand, metal chips and other abrasive particles.

Pump may be used advantageously for pumping waste water in pressure sewage systems, pumping-out septic tanks with conveying through pressure piping to a recipient or a sewage treatment plant, etc.

Design

Pump set consists of a progressive cavity pump, a submersible electric motor, and a suction casing being provided by a disintegrator destined for cutting and crushing long-fibred stuffs that are contained in a pumped liquid.

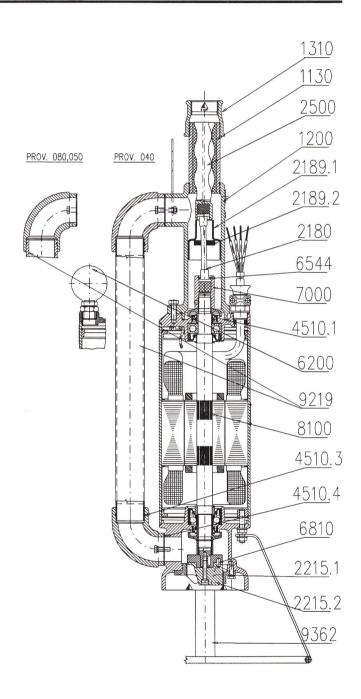
This pump is outstanding for its noticeable simplicity in respect of its design and function. As a progressive cavity pump notable for minimal parts number and excellent quality this pump set may be noted for its small size and weight, easy mobility and easiness of control, as well.

Material options

Pump 1 1/4"-EFRU including the electric motor is available in several material options that can be selected according to real operating conditions.

Pump in its basic material version is destined for pumping waste water without oily and chemical stuffs. Majority of parts is of structural carbon steel and of cast iron, functional hydraulic parts are of stainless steel, metal-rubber parts (stator and joints) are of moulded rubber goods. For pumping waste water containing oily and chemical stuffs the metal-rubber parts are of nitrile rubber and of other special rubbers.

Further design versions are destined for severe and arduous operating conditions in corrosive atmosphere. Some parts of these design versions (frame, motor casing, and so on) are made of stainless steel. Metal-rubber parts can be of moulded rubber goods, nitrile or other special rubber.



1200 - Pump casing 1310 - Discharge casing 2180 - Connection rod, complete 2189.1 - Packing 2189.2 - Packing ring 2215.1 - Cutting disc 2215.2 - Cutting tool

2500 - Helix 4510.1 - Ring

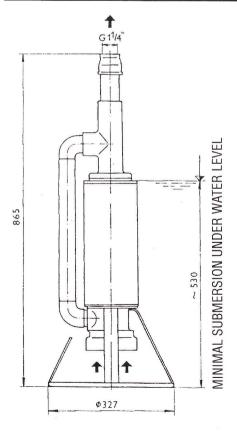
1130 - Complete stator

4510.3 - O-ring 4510.4 - Flange packing 6200 - Air chamber 6544 - Retaining ring 6810 - Pin 7000 - Coupling

8100 - Electric motor 9219 - Pipe 9362 - Frame

Main performance data

Pump			1 1/4" EFRU-16-8
Guaranteed rate of flow	Q _r	I . s ⁻¹	0,65
Delivery pressure	p _{do}	MPa	0,8
Delivery head, max.	H _{max}	m	80
Electric motor			1P-60112-02
Power output	Р	kW	1,1
Voltage	U	V	400
Rated current (breaking)	I	А	3,5
Frequency	f	Hz	50
Speed	n	min ⁻¹	2840
Winding insulation			PVC do 60 °C
Cable			HO7RN-F 4G 1,5
Cable standard length		m	10
Pump set max. submersion under water level		m	30
Liquid pH range		рН	6,5-12
Liquid max. density		kg.m³	1100
Max. temperature of a pumped liquid	t	°C	30
Pump weight, inclusive of 10 m cable	G	kg	29
Pump set dimensions			327 x 865





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