

---

## HPW/SM 0,6-25 HYDRAULIC SUBMERSIBLE PUMP

---



### Device description:

HPW/SM 0,6-25 submersible pump is a portable centrifugal pump designed for pumping dirty water containing solids with a maximum grain size of up to 30 mm. The device allows pumping water up to a height of 25 m and with a capacity of up to 400l/min, while the density of the pumped liquid should not exceed 1200 kg/m<sup>3</sup>.

The pump is driven by a SM type satellite hydraulic motor which can be supplied with HFA-type water-oil emulsion, sourced, for example, directly from emulsion hydraulic buses of mechanized casings. Oil supply from other hydraulic systems such as roadheaders or independent emulsion hydraulic stations is also possible.

The impeller of the pump is mounted on a shaft, coupled by a rigid coupling to the shaft of the drive motor. A discharge stub is a part of the body, and allows connection of a typical flexible hose  $\phi$  50 mm or a "fireman" connection. In addition to this standard solution, there is the possibility of a different design of hydraulic connections and the connection of the discharge stub

The undoubted advantage of the device is its light weight and the ability to operate the device when placed at the bottom of a liquid tank or when suspended from a mounting bracket.

---

## MANUFACTURE AND SERVICE

### Grupa SM Hydro

ul. Karolinki 10B, 40-467 Katowice

tel.: +48 (32) 353 03 75

e-mail: [biuro@smhydro.com.pl](mailto:biuro@smhydro.com.pl)

[www.smhydro.com.pl](http://www.smhydro.com.pl)

**Drive unit description:**

HPW/SM type hydraulic submersible pumps are driven by SM type hydraulic satellite motors developed and manufactured by SM Hydro company. These motors are distinguished by their simple and compact design and high torque combined with high efficiency.

The special advantages of SM-type satellite hydraulic motors are due to the precision of manufacture measured in microns and the quality achieved through the use of state-of-the-art construction materials with high durability, including the use of sintered carbide. The use of hydraulic satellite motors in mining is most often associated with the use of HFA-type water-oil emulsion as the feed medium, but oil feed is also possible.

***HPW/SM hydraulic submersible pump can operate in potentially explosive atmospheres.***



## MANUFACTURE AND SERVICE

---

**Grupa SM Hydro**

ul. Karolinki 10B, 40-467 Katowice

tel.: +48 (32) 353 03 75

e-mail: [biuro@smhydro.com.pl](mailto:biuro@smhydro.com.pl)[www.smhydro.com.pl](http://www.smhydro.com.pl)

### Technical characteristics of the HPW/SM 0,6-25 hydraulic submersible pump:

Hydraulic motor parameters		SM 0,6/10
Nominal supply pressure	MPa	22
Geometrical displacement	cm <sup>3</sup> /rev	8,3
Filtration	μm	100
Feed liquid	-	water-oil emulsion HFA, hydraulic oil
Pump		
Pumping height	m	25 m
Suction depth:	m	10 m
Capacity:	l/min	do 400
Rotational speed range:	rev/min	20÷3000
Pumped liquid/pollutants		Dirty water/max particles up to 30 mm
Dimensions (a x b x c)	mm	(260 x 170 x 300)
Weight (motor+pump)	kg	9

\* When fed with low-percentage HFA emulsion, continuous operation at pressures higher than nominal will result in accelerated wear of the toothed working mechanism of the motor. Pressures higher than nominal in continuous operation are recommended only when fed with hydraulic oils.

**All SM-type and SMW-type motors are suitable for operation on HFA water-oil emulsion. They can also be operated with hydraulic and also vegetable oils.**

Detailed information on motors and tools ranges can be found at [www.smhydro.com.pl](http://www.smhydro.com.pl)

## MANUFACTURE AND SERVICE

### Grupa SM Hydro

ul. Karolinki 10B, 40-467 Katowice

tel.: +48 (32) 353 03 75

e-mail: [biuro@smhydro.com.pl](mailto:biuro@smhydro.com.pl)

[www.smhydro.com.pl](http://www.smhydro.com.pl)