



# Marflex Submersible Pumps - Centrifugal (MSP)

Portable submersible pumps are versatile in that they can be used in various situations and industries. They can be used as a backup pump for firefighting, salvaging, sewing, or as an oil recovery pump. These pumps can be used in various locations due to their lightweight aluminum design, compact size, and flexible hoses, meaning that these pumps can be moved easily from one location to another. Simply connect to a powerpack, whenever the portable pump is needed.

The MarFlex Submersible Pumps (MSP) can withstand roughly the same temperature as our regular deepwell cargo pumps.

The MSP (MarFlex Submersible Pump) is typically provided as part of the newbuilding Deepwell Pump package for onboard seagoing vessels, ensuring that the vessel can operate at any time

## Materials used

Due to its mobile nature, the MSP housing is made up of lighter aluminum, perfect for easy storage and installation.

## The MSP comes in three assorted designs, depending on your specific requirements:

- **MSP80/200/500 = Centrifugal pump**

The centrifugal submersible pump is mainly used as a back-up, and we supply this in the newbuilding package

- **MSPEH16/200 = Eccentric helical mono pump**

The mono pump is a hydraulic-driven, eccentric helical pump that utilizes the positive displacement principle



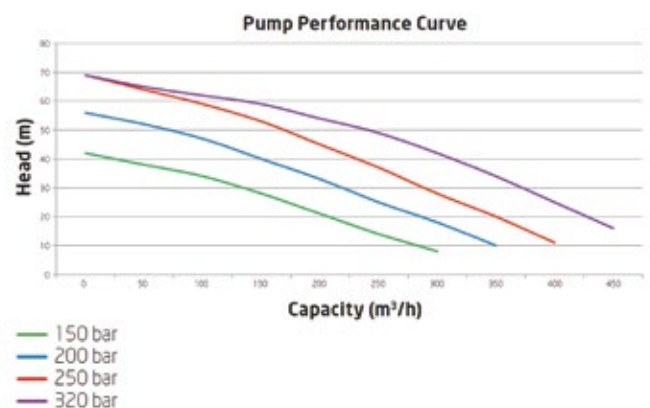
The MSP-500 is a light and compact, hydraulic drive, centrifugal salvage pump specially designed for those situations where high capacities are required. The pump impeller is keyed directly to the hydraulic motor shaft enabling a very compact design. Between the hydraulic motor and the pump impeller is a double mechanical seal arrangement to ensure a proper segregation between the hydraulic and product side. All parts exposed to the cargo are made of AISI 316L or PTFE. The pump can be used via a standard 121/2 tank cleaning hatch and can be driven by a ship's hydraulic system or by means of a portable powerpack.

### MSP-500

Discharge connection	: 6" coupling or 6" flange
Max. pressure	: 320 bar
Max. return pressure	: 10 bar
Max. oil flow	: 130 (l/min)
Pressure connection	: 1" quick coupling
Return connection	: 1½" quick coupling

### Dimensions

Max. diameter	: 306 mm
Height excluded stand pipe	: 590 mm
Stand pipe height	: 790-750-700 mm
Weight excluded hoses	: 75 kg



#### Contact for more information

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# Marflex Submersible Pumps - Centrifugal (MSP-200)



The MSP-200 is a light and compact, high capacity, hydraulic drive, centrifugal pump and designed for a wide range of products such as:

- chemicals
- solvents
- crude oil
- acids
- petroleum products
- edible oils

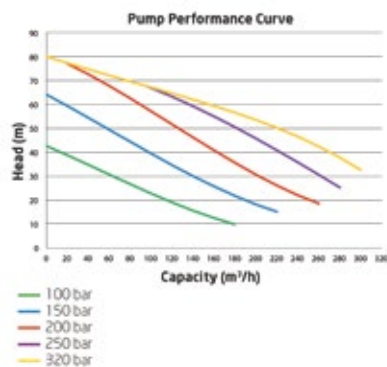
The pump impeller is keyed directly to the hydraulic motor shaft enabling a very compact design. Between the hydraulic motor and the pump impeller is a double mechanical seal arrangement to ensure a proper segregation between the hydraulic and product side. All parts exposed to the cargo are made of AISI 316L or PTFE. The pump has a maximum diameter of 300 mm and can be utilised via a standard 12" tank cleaning hatch. The pump can be driven by a ship's hydraulic system or by means of a portable powerpack. As standard, the pump is delivered with an 18 m concentric hydraulic hose with a start-stop valve at the other end. A flow control can be delivered as an option.

## MSP-200

Discharge connection	: 4" coupling or 4" flange : 320 bar
Max. pressure	: 10 bar
Max. return pressure	: 112 (l/min)
Max. oil flow	: 1" quick coupling
Pressure connection	: 1½" quick coupling
Return connection	

## Dimensions

Max. diameter	: 300 mm
Height excluded stand pipe	: 575 mm
Stand pipe height	: 1000-945 mm
Weight excluded hoses	: 52 kg



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The MSP-200 is a light and compact, high capacity, hydraulic drive, centrifugal pump and designed for a wide range of products such as:

- chemicals
- solvents
- crude oil
- acids
- petroleum products
- edible oils

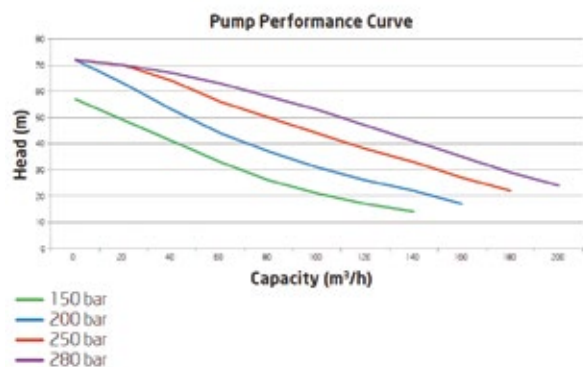
The pump impeller is keyed directly to the hydraulic motor shaft enabling a very compact design. Between the hydraulic motor and the pump impeller is a double mechanical seal arrangement to ensure a proper segregation between the hydraulic and product side. All parts exposed to the cargo are made of AISI 316L or PTFE. The pump has a maximum diameter of 250 mm and can be utilised via a standard 12" tank cleaning hatch. The pump can be driven by a ship's hydraulic system or by means of a portable powerpack. As standard the pump is delivered with an 18 m concentric hydraulic hose with a start-stop valve at the other end. A flow control can be delivered as an option.

#### MSP-80

Discharge connection	: 4" coupling or 4" flange : 320 bar
Max. pressure	: 10 bar
Max. return pressure	: 75 (l/min)
Max. oil flow	: ½" quick coupling
Pressure connection	: ¾" quick coupling
Return connection	

#### Dimensions

Max. diameter	: 250 mm
Height excluded stand pipe	: 558 mm
Stand pipe height	: 415-400-405-395 mm
Weight excluded hoses	: 38 kg



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