



Portable submersible pump type MSP-EH 16-200

The MarFlex submersible pump EH 16/200, (-Mono pump), is a hydraulic drive, eccentric helical pump, that uses the positive displacement principle, and is especially designed to cope with high viscous cargoes like:

- molasses
- unheated fuel oil
- lubricating oil additives
- clay slurries

The pump can be used via a standard 12" tankcleaning hatch and can be driven by the ship's hydraulic system or a portable powerpack. The pump consists of a rotating element (worm or rotor) and a static element (stator). The rotor (chromium steel) is shaped as a worm and has a relatively coarse pitch. The stator (NBR rubber) has the same shape but with a pitch which is exactly half as coarse as the pitch of the rotor. This difference in pitch creates the so-called 'chambers' between the rotor and stator. As soon as the pump starts running these chambers will move from the suction side to the pressure side of the pump and accordingly the cargo will move in the same direction. The seal between the stator and the rotor always exists and is independent of their position with regard to each other. This means that at any position of the rotor the pressure side is always separated from the suction side. The maximum discharge head of the Mono pump depends on the deformation (due to the NBR material) of the stator.

MSP-EH 16-200

Discharge connection	: 4" coupling
Max. pressure	: 250 bar
Max. return pressure	: 6 bar
Max. oil flow	: 125 (l/min)
Pressure connection	: ½" quick coupling
Return connection	: ¾" quick coupling

Dimensions

Max. diameter	: 300 mm
Height	: 1430 mm
Weight excluded hoses	: 98 kg

Performance

Viscosity (mPa·s)	Capacity (m ³ /h)	Speed (rpm)	Oil flow (l/min)	Oil press (bar)	Power (kW)
1	58	600	120	75	15
4.000	48	500	100	100	17
8.000	38	400	80	125	17
10.000	29	300	60	150	15
20.000	24	250	50	175	15
40.000	19	200	40	200	13
80.000	14	150	30	225	11
160.000	10	100	20	250	8