

**HP FILTER 500L**  
**HIGH-PRESSURE**  
**SUBSEA HYDRAULIC**  
**FILTER**  
**PRODUCT SHEETS**

HP filter 500L: Field-proven HP filter that safeguards subsea hydraulic system cleanliness



## OPTION LIST

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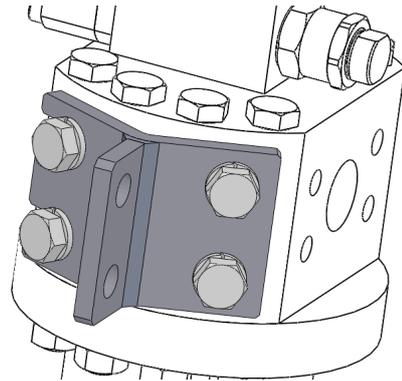
### **A** Differential pressure switch

The differential pressure switch (DPS) measures the differential pressure over the filter and generates an alarm signal in case pressure exceeds a pre-set value. The switch is executed with a pressure-setting knob that allows the engineer to adjust the level of critical pressure.



### **B** Mounting bracket

The hydraulic filter can be delivered with a stainless-steel mounting bracket, which includes bolts.



## TYPICAL APPLICATIONS

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Seatools' HP filter range was designed specifically for high-pressure subsea hydraulic systems, such as found in:

- Subsea vehicles such as ROVs, trenchers, and cleaning vehicles
- Subsea instrumentation
- Subsea installation tools and equipment



# HP FILTER 500L HIGH-PRESSURE SUBSEA HYDRAULIC FILTER SPECIFICATIONS

## GENERAL

	METRIC	IMPERIAL
Main dimensions	See detailed drawings	
Material housing	Duplex	
Weight in air	44 kg	97 lbs
Weight in air including DPS	46 kg	101.4 lbs
Maximum working depth	3000 msw	9842 ft
Operational temperature range (water)	-4°C - +50 °C	25 °F - +122 °F
Operational temperature range (air)	-20°C - +50 °C	-4 °F - +122 °F

## HYDRAULIC

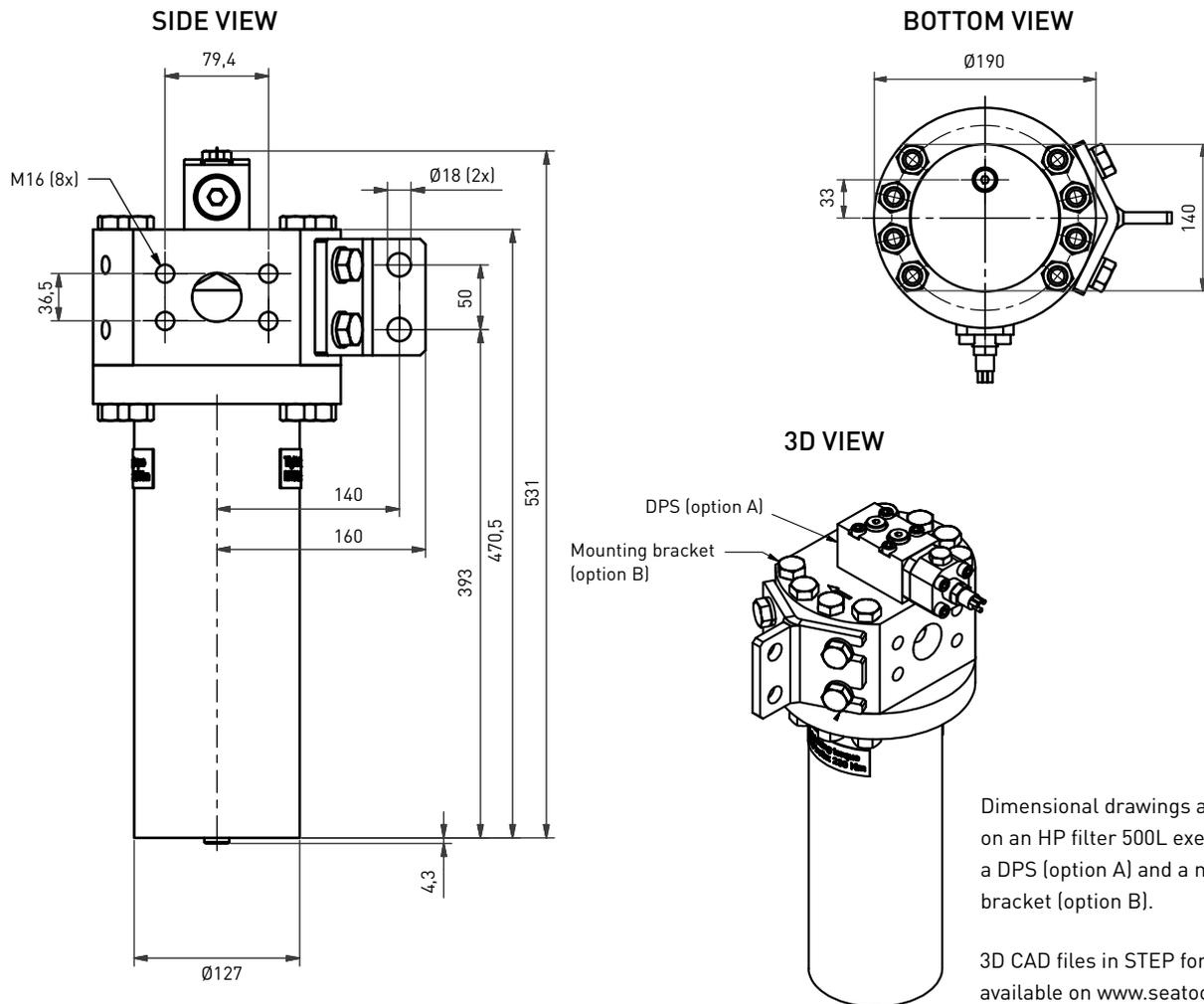
Filtration size	5 micron	
Maximum internal system pressure	350 bar	5076 psi
Maximum flow capacity	500 l/min	132 gpm
Differential pressure <sup>1</sup> (approx.)	2.5 bar	36.2 psi
Hydraulic connections	See detailed drawings	

<sup>1</sup> Differential pressure is based on 32cSt fluid viscosity and 0.87 g/mL density

## ELECTRICAL – DPS (OPTION A)

Supply voltage	24 VDC
Switch output	NO or NC
Connector type	Subconn® Micro 6 or 8 pole
Switching current	5A

# DIMENSIONS



Dimensional drawings are based on an HP filter 500L executed with a DPS (option A) and a mounting bracket (option B).

3D CAD files in STEP format are available on [www.seatools.com](http://www.seatools.com)

## RELATED SERVICES

### Client advisory

During the selection process, we consult clients to ensure they opt for the right filter. In our recommendation we take into consideration required volume flow, pressure levels, oil characteristics, data communication, mounting possibilities, and other factors relevant to your case.

### Subsea hydraulic systems

Because of our subsea hydraulic engineering capabilities we are able to fully unburden our customers by delivering complete tailor-engineered subsea hydraulic systems. This includes all related systems such as mechanics, software, electronics, and controls.

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