

HP FILTER 80L
HIGH-PRESSURE
SUBSEA HYDRAULIC
FILTER
PRODUCT SHEETS

HP filter 80L: Field-proven HP filter that safeguards subsea hydraulic system cleanliness



OPTION LIST

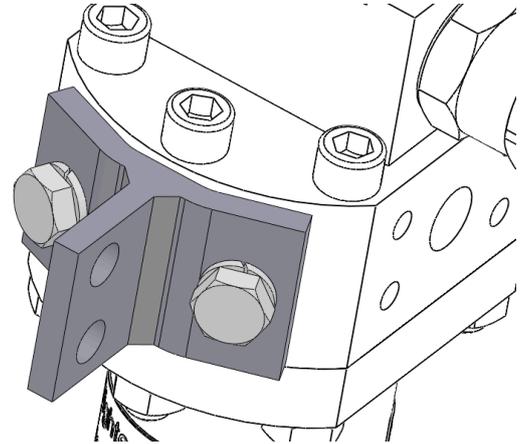
A Differential pressure switch

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

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 80L HIGH-PRESSURE SUBSEA HYDRAULIC FILTER SPECIFICATIONS

GENERAL

	METRIC	IMPERIAL
Main dimensions	See detailed drawings	
Material housing	Duplex	
Weight in air	9 kg	19.8 lbs
Weight in air including DPS	12 kg	26.5 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

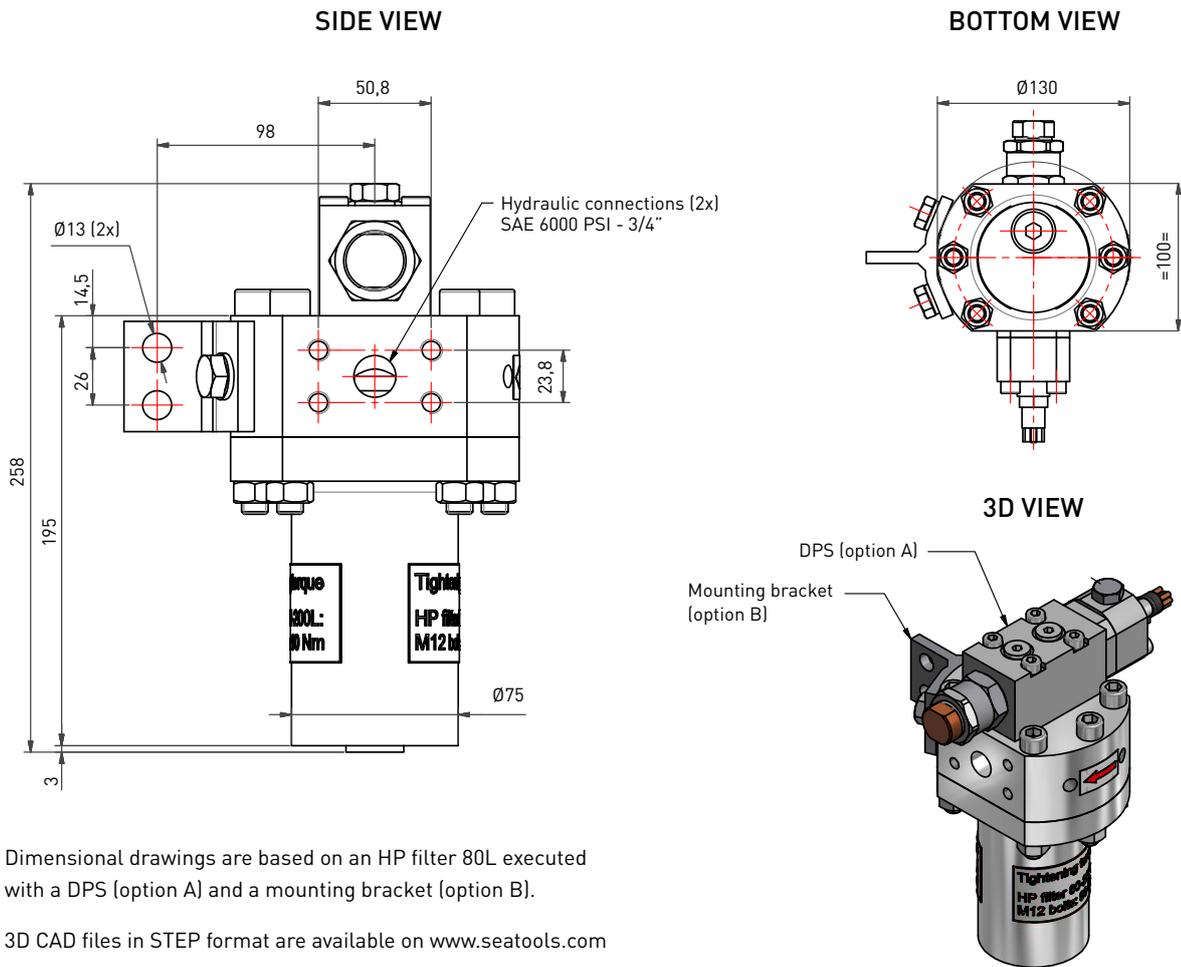
Filtration size	10 micron	
Maximum internal system pressure	300 bar	4351 psi
Maximum flow capacity	80 l/min	21 gpm
Differential pressure ¹ (approx.)	2.3 bar	33 psi
Hydraulic connections	See detailed drawings	

¹ 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	5 A

DIMENSIONS



Dimensional drawings are based on an HP filter 80L executed with a DPS (option A) and a mounting bracket (option B).

3D CAD files in STEP format are available on 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.

seatools

Edisonstraat 67
3281 NC Numansdorp
The Netherlands
Tel. +31 (0) 186 68 00 00
www.seatools.com
info@seatools.com

UNDERWATER SPECIALISTS