

BASIC SERIES COMPENSATOR 0.6 L PRODUCT SHEETS

The basic series: A range of cost-effective subsea pressure compensators that feature a light-weight design and volumes ranging from 0.6 to 6 liters.



UNDERWATER SPECIALISTS

OPTION LIST

A Mounting clamps

The compensator can be delivered including two mounting clamps with threaded ends (M10).

B Hydraulic connection

Standard hydraulic connection is G1/4". However, other types of connector threads are available on request. Also, tee- and cross fittings can be delivered to increase the number of hydraulic connections as displayed by image B.

• Pressure relief valve

The compensator can be equipped with a safety valve for protection against internal pressure peaks.

Empty detection

Signals that the compensator is (close to) empty.









TYPICAL APPLICATIONS

Subsea equipment for which weight is an important performance criterion, including:

- Subsea instrumentation
- Remotely Operated Vehicles (ROVs)
- Subsea saw systems
- Oil-filled electronics cabinets
- Submerged junction boxes
- Subsea powerpacks

Basic series compensator applied to diver-deployed subsea measurement system.

BASIS SERIES 0.6 LITRES SPECIFICATIONS

Compensation volume¹ Main dimensions Weight in air excl. oil & mounting clamps Materials (in contact with seawater)

¹ The Basic compensator is also available in 1.4, 3.3, 6 liters versions.

OPERATIONAL

Maximum operating depth Operating temperature range Storage temperature range Shock resistance

YDRAULIC

Design pre-charge pressure
Number of hydraulic connections ²
Hydraulic connection to hydraulic system ³
Pressure relief valve accuracy

± 1.5 kg

METRIC

METRIC

0.16 bar (empty)(min) -

0.35 bar (full)(max)

1 x (internal) G1/4"

METRIC 0.6 liters

See detailed drawings

Synthetics, Stainless steel 316L

3000 m -4°C -+50 °C -30°C - +50 °C 5g, 6 ms

IMPERIAL

IMPERIAL

± 3.3 lbs

0.16 US gallons

9843 feet 27 °F – 122 °F -22 °F – 122 °F

IMPERIAL

2.32 psi (empty)(min) -5.08 psi (full)(max)

² For more hydraulic connections (for filling, air bleed or safety valve applications) tee- or cross fittings can be mounted. ³ Compensator can be delivered in with other types of hydraulic connections.

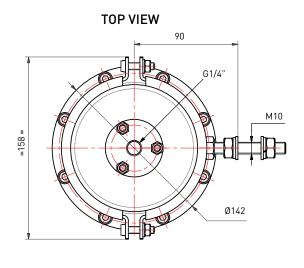
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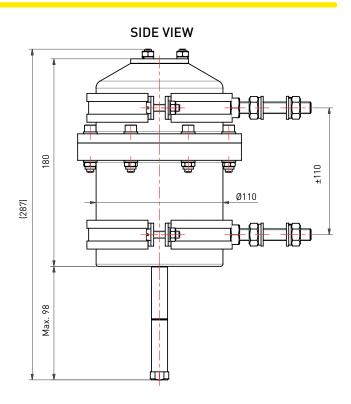
ELECTRICAL – EMPTY DETECTION

Operating voltage No-load current consumption Output signal Connector type

+10 VDC ... + 30 VDC 30 mA typical NO or NC 24 VDC 3 pin Subconn micro connector or more

DIMENSIONS





3D CAD files in STEP format are available on www.seatools.com

RELATED SERVICES

Client advisory

To ensure that the right size and type of compensator is selected, we advise our clients during the selection process. We do so, taking temperature ranges, pressure ranges, filling levels, entrapped air, fluid behaviors, and other factors into account. In addition, we provide advice regarding the installation and use of a compensator in a subsea hydraulic system.

Advanced testing programs

Normal factory testing procedures include internal pressure testing, leakage testing, and functional testing. In addition, we also offer more extensive factory testing and qualification programs including external pressure testing, fatigue and life cycle testing, temperature range testing, and contamination testing. In addition, the compensator can be delivered flushed to a pre-defined cleanliness level class.

Custom-made versions

Next to our standardized series, Seatools offers custommade hydraulic compensators that are tailored to your specifications. Please contact our sales department to request a customized compensator.

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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