

BASIC SERIES COMPENSATOR 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.



OPTION LIST

Mounting clamps

As an alternative to flange mounting, the compensator can be delivered including two mounting clamps with threaded ends (M10).

B Hydraulic connection

Standard hydraulic connection is G3/4". 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



BASIS SERIES 6 LITRES SPECIFICATIONS

METRIC IMPERIAL

Compensation volume¹ 6.0 liters 1.59 US gallons

Main dimensions See detailed drawings

Weight in air excl. oil & mounting clamps ± 10 kg $\pm 22.05 lbs$

Materials (in contact with seawater) Synthetics, Stainless steel 316L

OPERATIONAL

METRIC IMPERIAL

Maximum operating depth 3000 m 9843 feet -4°C - +50 °C 27 °F - 122 °F Operating temperature range Storage temperature range -30°C - +50 °C -22 °F - 122 °F Shock resistance 5g, 6 ms

HYDRAULIC

METRIC IMPERIAL

Design pre-charge pressure 0.14 bar (empty)(min) -2.03 psi (empty)(min) -4.21 psi (full)(max)

0.29 bar (full)(max)

Number of hydraulic connections²

1 x (internal) G3/4" Hydraulic connection to hydraulic system³

Pressure relief valve accuracy 20 %

ELECTRICAL - EMPTY DETECTION

Operating voltage +10 VDC ... + 30 VDC No-load current consumption 30 mA typical NO or NC 24 VDC Output signal

Connector type 3 pin Subconn micro connector or more

¹ The Basic compensator is also available in 0.6, 1.4, 3.3 liters versions.

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.

DIMENSIONS

TOP VIEW 150 63/4* 150 63/4* 010,5 8x 0260

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

* Attention: In case of flange mounting, keep a minimum of Ø18mm clear for compensator bolts, nuts, and washers in the counter flange.

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 contamina-

tion 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.



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