

COMPENSATOR 100 LITERS SPRING LOADED

A PART OF ENVIREX
COMPENSATOR
SERIES



Description

The Envirex Compensator Series represents a number of hydraulic compensators that features a reliable and solid design, made to handle harsh subsea environments on great depths.

The compensator is designed for systems which requires relatively over-pressure on depths down to 5000 meter and are typically used as fluid reservoirs for subsea systems.

The compensators are produced of stainless steel, GRP and POMC materials with stainless steel springs.

In addition to our hydraulic compensators, we also deliver complete subsea control systems (hydraulic, electronic and software).

Features

- ▣ Solid and Reliable Design
- ▣ Facilitates system over-pressure
- ▣ Analog fluid level sensor

Typical Applications

- ▣ Subsea HPU Systems
- ▣ Subsea Reservoir
- ▣ Chemical Injection
- ▣ Subsea RWOCS System
- ▣ Subsea Excavators
- ▣ Trenchers

Specifications

100L Compensator

General Technical Specifications

Type	Spring Loaded Compensator 100 liter
Compensation Volume	101,5 L
Depth Rating	3000 MSW
Weight Stainless SS316 (in air / submerged)	140/80 kg*
Weight Aluminium (in air / submerged)	100/40 kg*
	<i>*Weight is without fluid</i>
Operating Temperature	-4°C / +40°C
Store temperature	-18°C / +40°C
Dimensions Ø x L	Ø420 x 1365 mm (mounting plate 410 x 410)

Hydraulic Data

Min. Compensation Pressure	0,1 bar ±0,05
Max. Compensation Pressure	0,6 bar ±0,05
Max. Working Pressure	5 bar*
Hydraulic Connections	4x 1" BSP 4x 1/2" BSP 2x 1/4" BSP
	<i>*Recommended to use relief valve 1,5 bar</i>

Electrical Data (only applicable if LVDT)

Nominal Voltage	20...30VDC
Signal Type	4-20mA
Connector	55 Series, Shell size 15, 8 pins

Pin Out

PWR & COMMS

Pin 01	– 0 VDC
Pin 02	– 24 VDC
Pin 03	– 4-20 mA
Pin 04	– NC
Pin 05	– NC
Pin 06	– NC
Pin 07	– NC
Pin 08	– NC

Connector face view

