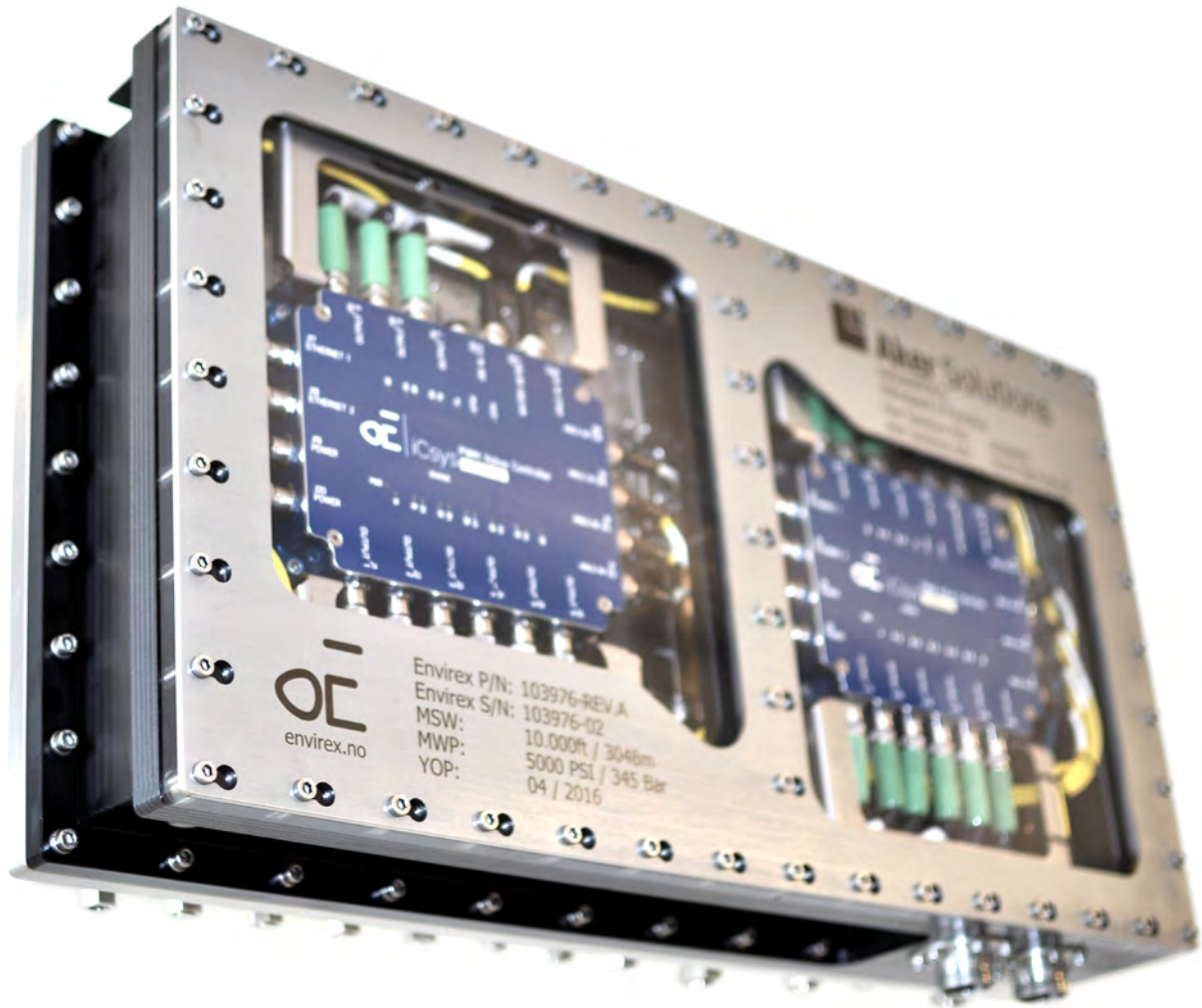


SUBSEA WOCS 8-FUNCTION VALVEPACK

SUBSEA
CONTROL
SYSTEM



FEATURES

- Cost Effective
- Multiple Configurations
- Reliable Field Proven Technology
- Standardized hardware and firmware
- Simplified Maintenance
- Redundant Design
- Daisy Chain

SUBSEA WOCS 8-FUNCTION VALVEPACK

SUBSEA
CONTROL
SYSTEMS



Description

Envirex Group can deliver complete control system solutions, designed to meet the harshest subsea challenges and provide both flexibility and expandability.

The subseaWOCS valve pack is a self contained unit consisting of 8 pulse operated/controlled DCVs for controlling 8 hydraulic functions on a subsea tool e.g. an openwater workover stack or a running tool. The valve pack is pressure compensated and suitable for use at 3000 water depth.

Features

- Compact and robust design
- Dual Redundancy
- Rated to 3000MSW
- Service and user friendly
- Standardized Hardware & Firmware
- Accurate Monitoring
- Ethernet communication

SPECIFICATIONS

MULTIFLUID SMART PUMP

General Technical Specifications

Manufacturer	Envirex AS
Part Number	103976
Description	subseaWOCS 8 function ValvePack
Weight (in air / submerged) [Kg]	210Kg / 160Kg
Depth Rating	3048m / 10.000ft
Operating Temperature	-10°C/ + 60°C (14°F / 122°F)
Dimensions (W x H x L) [mm]	400 x 740 x 198

Electrical Data

Nominal Voltage	20...30 VDC
Nominal Power	10.6 W
Nominal Current	0.44 A
Max. Power	192 W
Max. Current	8A
Communication	Ethernet - Modbus TCP/IP

Hydraulic Data

Number of function lines	8 x
DCV Type	HCV151.11.11.12-3.2
DCV Description	3/2 way Metal to Metal Seal Hydraulic Control Valve
Maximum Supply Pressure	345 BAR (5000PSI)
Maximum Operating Pressure	345 BAR (5000PSI)
Maximum Return Pressure	345 BAR (5000PSI)
Maximum comp. pressure	0.7 BAR (10.15PSI)
Fluid	Most common subsea fluids *

* The lubricity of different fluids varies and will influence the no. of operations. Please contact us for more information.

Performance Data

[FL01... FL08]	Cv P-A = 0.23 Cv A-R = 0.20
Steady State Leakage [By-pass Valve]	Less than 0.2ml/min Cv P-A = 1 Cv A-R = N/A
Steady State Leakage	Less than 0.2ml/min
No. of Operations @ 345 Bar	25000 **

** The lubricity of different fluids varies and will influence the no. of operations.

SPECIFICATIONS

MULTIFLUID SMART PUMP

Connection Specifications

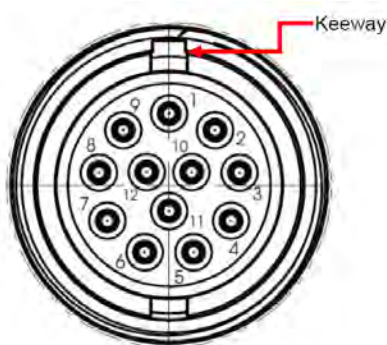
Hydraulic

Supply	[S]	AE 9/16" Medium Pressure, Female (SF562CX20)
Return	[R]	AE 9/16" Medium Pressure, Female (SF562CX20)
Accumulator Port	[A]	AE 9/16" Medium Pressure, Female (SF562CX20)
Function Lines	[FL01...FL08]	AE 3/8" Medium Pressure, Female (SF375CX20)
Compensator Port	[COMP]	AE 3/8" Medium Pressure, Female (SF375CX20)
Comp. Fluid Fill Port	[FILL PORT]	Swagelok Quick Connector (SS-QC4-B-400)
Chamber Drain Port	[Drain Port]	1/4" BSPP Femelle

Electric

Connector GISMA S-10 12-Pin Size 4 (OEM P/N: 10.00.4.12.3.10)

Pin-out



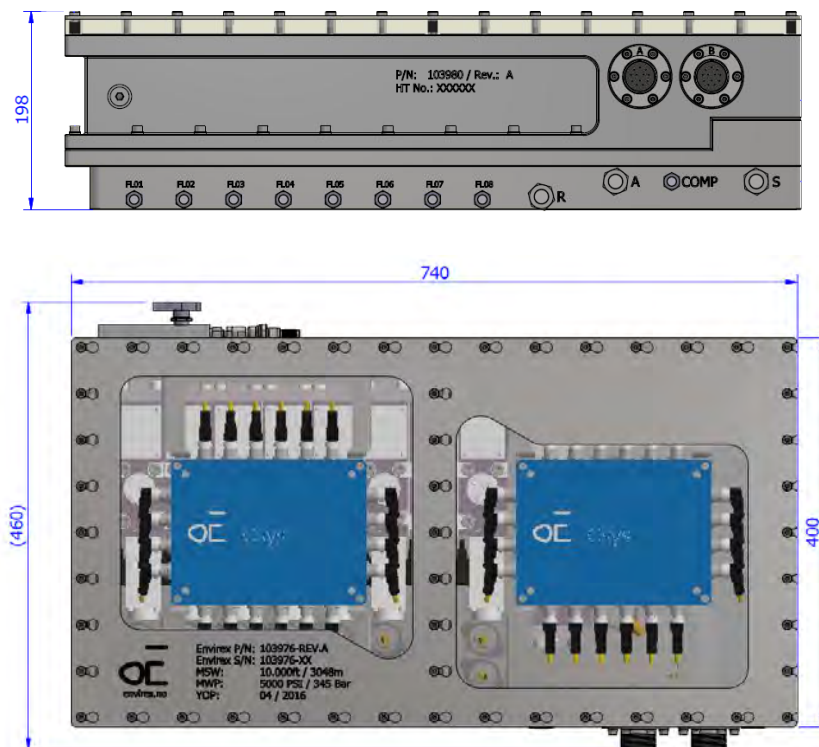
J1 - Connector A

- Pin 01 – 24 VDC
- Pin 02 – 0 VDC
- Pin 03 – TX + (J17)
- Pin 04 – TX - (J17)
- Pin 05 – RX + (J17)
- Pin 06 – RX - (J17)
- Pin 07 – TX + (J18)
- Pin 08 – TX - (J18)
- Pin 09 – RX + (J18)
- Pin 10 – RX - (J18)
- Pin 11 – Screen
- Pin 12 – NC

J2 - Connector B

- Pin 01 – 24 VDC
- Pin 02 – 0 VDC
- Pin 03 – TX + (J17)
- Pin 04 – TX - (J17)
- Pin 05 – RX + (J17)
- Pin 06 – RX - (J17)
- Pin 07 – TX + (J18)
- Pin 08 – TX - (J18)
- Pin 09 – RX + (J18)
- Pin 10 – RX - (J18)
- Pin 11 – Screen
- Pin 12 – NC

Dimensions



**□ WE
CARE
ABOUT
THE DETAILS**

**□ WE
DRIVE
FOR
PERFECTION**