

DIRTY WORK VALVE PACK

ROV TOOLING
HYDRAULIC
VALVEPACK



Description

The Dirty Work Valve Pack (DW-VP) is a compact all-in-one unit for subsea use in relation to tooling and pressure leak / test applications.

DW-VP contains 4x NG4 and 1x NG6 proportional valves for controlling ROV tooling. A motor-pump (Dirty Work Pack) are flanged directly to the Valve Pack making it to a all-in-one system.

The unique design are both cost efficient with regard to ROV interface and reduced connections (hoses/fittings) makes it a more reliable system due to HSE impact and leakages. Surface Software gives the operator control of both pump pressure and flow adjustment on all output lines. This unit is a all-in-one system.

Features

- Integrated Control System
- Integrated Flowmeter
- Integrated Pressure Intensifier
- Integrated Pressure Filter
- Integrated Pressure Test Arrangement
- 207 Bar Pump Supply (LP Output)
- 690 Bar Booster Supply (HP Output)
- Rated to 3000MSW
- RS232, 485 and Ethernet communication

Typical Operations

- Intervention Works
- Subsea Control System
- ROV Tooling
- ROV Skid Systems

SPECIFICATIONS

DIRTY WORK VALVE PACK

General Technical Data

Type	Dirty Work Valve Pack (all-in-one unit)
Part Number	102086
Weight (in air)	kg ~90
Dimensions (W x H x L)	mm 840 x 700 x 600
Operating Temperature	-10°C / + 60°C (14°F / 122°F)
Depth Rating	MSW 3000 Meter

Hydraulic

Max. Input Pressure	Bar (PSI)	207 Bar (3.000 PSI)
Max. Input Flow	L/Min (USG)	75 (19.8)
Max. Output Pressure - LP	Bar (PSI)	275 (4.000)
Max. Output Pressure - HP	Bar (PSI)	690 (10.000)
Max. Output Flow	L/Min (USG)	40 (10.5)
Fluid Compatibility **	Input	Mineral Oil (10 - 200 cSt / optimal 25 - 35 cSt)
	Output	Mineral Oil Water Based Glycol *
Typical Flow Range - Output 1 and 2	L/Min (USG)	40 (10.5) (Pmax 275 Bar / 4.000PSI) - NG6
Typical Flow Range - Output 3, 4 and 5	L/Min (USG)	20 (5.25) (Pmax 275 Bar / 4.000PSI) - NG4

* Please contact us for more information regarding fluid compatibility.

Connections

ROV Pressure	3/4" BSP Female
ROV Return	3/4" BSP Female
ROV Drain	1/2" BSP Male
Pump Suction Port	1-1/4" SAE Code 61
Pump Return	3/4" BSP Female
Pump Case Drain	1/2" BSP Male
Output Pressure LP (Output 1 to 5)	1/4" BSP Female
Outlet Pressure HP	1/4" AE MP Female

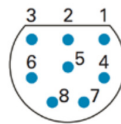
Electrical

PCB	iCsys Control PWM PCB
Nominal Voltage	20..30 VDC
COMS	Ethernet (RS232 / 485 Optional)
Connector	55 Series - Shell Size 15 - 8-Pin

Pin-out (PWR & COMS)

Pin 01 – 0 VDC	Pin 05 – Ethernet TX+
Pin 02 – 24 VDC	Pin 06 – Ethernet TX-
Pin 03 – RS 485 + / RS 232 TX	Pin 07 – Ethernet RX+
Pin 04 – RS 485 - / RS 232 RX	Pin 08 – Ethernet RX-

Connector Face View



- Connection ports for ROV, pressure return and drain from motor - 1
- Connection ports for external sensors - 2
- Connection ports for tooling - 3
- Connection port for Pressure testing - 4

