



Fathom Intelligent Valve Pack (iVP)

Multipurpose intelligent valve pack

The iVP is a field proven fully proportional intelligent valve pack using industry standard directional and pressure control valves.

It provides hydraulic control requirements for complex underwater systems including tooling skids, tracked vehicles, tether management systems and tool deployment units. The modular format allows for future system expansion if required. The fully integrated subsea unit is supplied with a dedicated PC operating Fathom Systems Windows® based control software.

The easy to use graphical user interface (GUI) guarantees that critical operations can be performed to the highest and safest levels. The control system is part of a family of integrated products that enable operator control commands to be expressed at a remote location and data to be collected and transmitted for display or storage at the surface PC. The system can be configured in a number of ways to suit the user's requirements and existing power and communication infrastructure.

Applications

Torque tool control operations

Features

- Modular intelligent valve pack
- Proportional control throughout
- Cost effective field proven technology
- 1 to 12 functions – expandable, flexible
- Embedded processor for instant start-up
- Software configurable
- External sensor capability
- Single channel video overlay
- Integrated comms link
- Fully self-contained system

In the box

- Fathom intelligent valve pack (iVP)
- Laptop
- Operational hoses
- Operations and maintenance manual



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Specifications



Electronics module (burton or subconn cabling)	
Wandfluh NG3 valve type WDPF-A03	
Wandfluh NG6 valve type WDPF-A06	
Wandfluh pressure control valve type MVPS-A03	
Hydraforce pressure control valve type TS-1036	
Wandfluh PO check valve types BDERV3 & ADERV6	
SUN based high flow pressure relief valves	
Upstream, downstream & depth pressure TXD's	
Single input & return to tank	
Twin inputs & twin returns to tank (dual-fluid)	
Depth TXD	300bar / 4351psi 0-5v
System & regulated pressure TXD	600bar / 8702psi 0-10v
Service Line pressure measurement	600bar / 8702psi 0-10v
Turns count	24 bit, single pulse or quadrature
Strain gauge input	Constant current source to 4 wire strain gauge TXD Set-up for 350 or 700ohm bridges for 10v excitation
Hydraulic working pressure	207bar / 3000psi (max)
Depth rating	3000m / 9842ft
P, T, NG6 valve, fill & drain	3/8" BSPP
NG3 valve	1/4" BSPP
Material	6082T6 Al hard anodised to BS5599, dyed black & dichromate sealed to 50 microns
Weight in air	Specification dependant
Weight in water	Specification dependant
Power	24v DC smoothed & regulated
Data	RS232/RS422 (for use with ROV MUX) ARCNET (mini system used for comms between host & slave hardware subsea)
Host interface	SubConn BH10MSS (spec 44 wire) or burton 5507-1508
Sensor interface	SubConn MCBH6FSS x 2, MCBH8FSS x 2 (Spec 44 wire)

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