The Subsea Tooling Specialists

an ACTEON company

Key Features:

- Modular intelligent valve pack (iVP)
- Proportional control throughout
- Cost effective field proven technology
- 8 functions – expandable to 12, flexible
- Embedded processor for instant start-up
- Standard manipulator software
- External sensor capability
- Optional single channel video overlay
- Integrated comms Link
- Fully self-contained system

J2 Subsea Manipulator iVP Control System

Manipulators and Accessories

The iVP is a long established, field proven, fully proportional intelligent valve pack based on industry standard Wandfluh valves. This fulfils the needs of all hydraulic control requirements such as complex tooling skids, tracked vehicles, tether management systems, tool deployment units and manipulator arms.

The modular format allows the system to be expanded in the future if required. The fully integrated subsea unit is supplied with it's own dedicated branded PC operating Fathom Systems Windows® based bespoke control software. For many years, the easy to use Graphical User Interface (GUI) has guaranteed that critical tooling operations are performed to the highest and safest level.

J2 Subsea Manipulator
iVP Control System
Manipulators and Accessories

The proportional valves provide accurate and smooth control of the hydraulic functions without the need for external fixed flow throttles. Typically, all functions use centre-closed spool valves of type NG3 WDPFA03-ACB-S, with the exception of the Jaws which use centre-open type WDPFA03-ADB-V. Four functions also feature load-holding pilot operated check valves of type BDERV3.

The Windows® based control software is offered pre-installed on a branded laptop PC with X-Box 360 Wireless controller. As standard, the system is supplied with an intelligent pressure compensator in a closed cell foam flight case.

Specifications

Electronic 100Hz loop control	100Hz Loop Control	
Hydraulic working pressure	300 Bar (max)	
Depth rating	3000msw	
P, T, 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	Weight in air	29Kg
	Weight in water	21Kg
Dimensions	Length	508mm
	Width	186mm
	Height	180mm
Power	24v DC smoothed & regulated	
Data	RS232/RS422 (for use with ROV MUX)	

System Components

Manipulator 8 function iVP	Transit case	10 pin whip
Topside laptop plus control software	Compensator plus fill kit	
Xbox wireless controller	Deck test box plus cable	
Operating manual	Deck test lead	

www.j2subsea.com