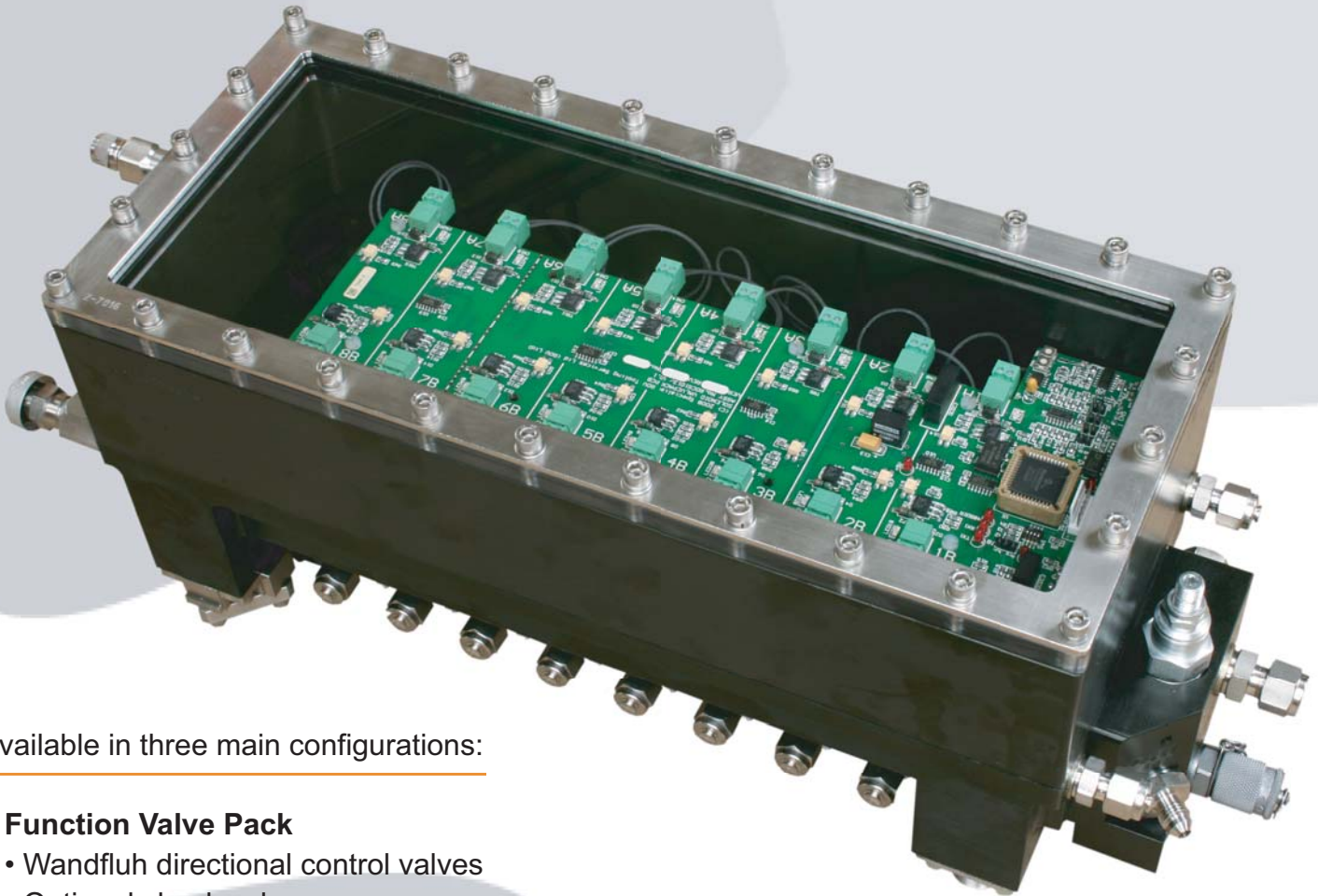




SPECIALIST ROV TOOLING SERVICES LTD

(INTELLIGENT) 8 FUNCTION VALVE PACK / TORQUE TOOL CONTROL SYSTEM



Available in three main configurations:

8 Function Valve Pack

- Wandfluh directional control valves
- Optional check valves
- Pressure control at input c/w test point
- Flow control on all 16 outputs
- Hardwired to 37 pin Bratner connector
- Integral positive compensation unit (no need for additional compensation)

Intelligent Valve Pack

- Supplied as 8 Function Valve Pack with intelligent PCB
- RS232 communication
- 4 Analogue inputs
- 2 Analogue outputs
- Easily configurable and fully customisable laptop control system

Torque Tool Control System

- Supplied as Intelligent Valve Pack
- Turns feedback
- Torque feedback
- Pressure feedback
 - 4 Valves – Main system pressure
 - 4 valves – Proportional pressure control
- Easily configurable and fully customisable laptop control system

For more details or to check availability please contact us at:

SPECIALIST ROV TOOLING SERVICES LTD
Unit 1 South Road, Inch, Aberdeenshire AB52 6XF

Tel: +44 (0) 1464 821010
Email: info@specialistrov.co.uk



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(INTELLIGENT) 8 FUNCTION VALVE PACK / TORQUE TOOL CONTROL SYSTEM

SPECIFICATIONS

Hydraulics (as standard)

- 8 station 4 way / 3 position wandfluh control valves
- Max flow per valve 15 L/min
- Max Pressure 250 bar
- Pressure Gauge ports
- Flow control valve for each line
- Integral positive compensator
- Manually adjustable cartridge for input pressure control
- Electronic control board tested to 5000m
- Various electrical connector options

Hydraulic (options)

- Proportional pressure control
- Differential pressure transducer
- Cross port P/O check valves
- Second electrical connector for sensor inputs

Electrical

- Power 24VDC @ <8.35A (350mA nominal plus 600mA - 1000mA per solenoid as used)
- Onboard 24V +/-15V

Inputs

- 4 analogue inputs 0-5 or 0-10V with following input options:
Input 1 - suitable for turns counters, fast counter <2Khz <12V signal
- Input 2 - optional 4-20mA input 2/3/4 wire type, any sensor design
- Input 3 - temperature for simple PT 100 resistive type sensor
- Input 4 - optional high gain differential pre amplifier suitable for use with non amplified torque sensor or similar resistive type bridge sensor (stain gauges etc.)

Input (options)

- Compensator transducer
- Water detect

Outputs

- 16 Digital FET outputs <1.2A with diode protection and LED indicators
- 2 analogue outputs +/- 5 or +/- 10V

Output (options)

- Output 2 - 4-20mA type output and 24Vdc drive for external valves

Communications

- RS232 or optional RS485 multidrop
- In 485 mode, up to 4 valve packs per comms channel can be daisy chained (Care must be taken not to overload the ROV Power supplies in this mode current can reach 32A)
- Communication protocol 9600 N,8,1 or optionally faster if required
- Rx, Tx and communication link LED's

Software

- Laptop based control system
- Full SCADA and OPC network server package supplied
- Compensator volume display
- Water alarm
- Data logging to MS Access or Excel with full reporting system
- Integrate to existing systems via OPC interface compatible with Ethernet networks

Software (options)

- Hand controller available with latching or momentary switches
- Touch screen hardened laptop controller
- Network controllers or monitors
- Wireless link for deck testing
- 250Ah 24Vdc Battery pack for remote installations with acoustic modem (500m rated)

Mechanical

- Transparent inspection cover
- Hard anodised aluminium construction
- Dimensions: 340 x 165 x 120 mm
- Weight: 9.5kg in air, 5.3Kg in water



Rugged control laptop

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