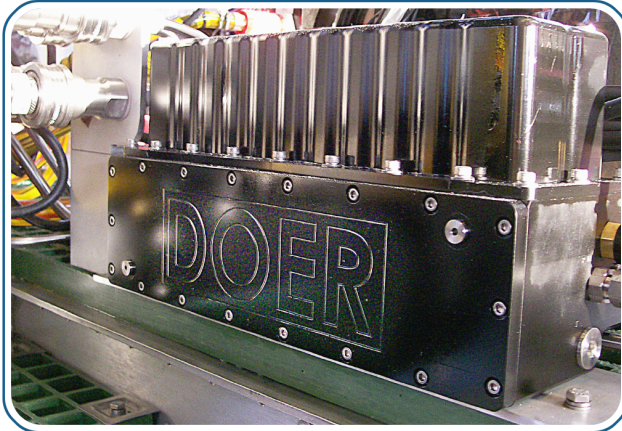


# Multi-Function Valve Pack



## Features

- 6 Function Manifold
- Hydroforce 4-3 Proportioning Valves
- Proportional Flow Control
- Load holding
- Can Regulate from 3500 psi down to 500 psi (241 bar down to 34.5 bar)
- Adjustable pressure relief of each function
- ORB ports, no NPT
- ORB capped cross porting, all field serviceable
- Common or independent electrical compensation

## Available Options

- Custom number of Functions
- Elimination of pressure regulation function
- Filtration onboard the manifold
- Choice of fitting type or no fittings
- Use DOER control boards or your own
- Custom stand alone Joystick
- Custom logo available or no logo

## Description

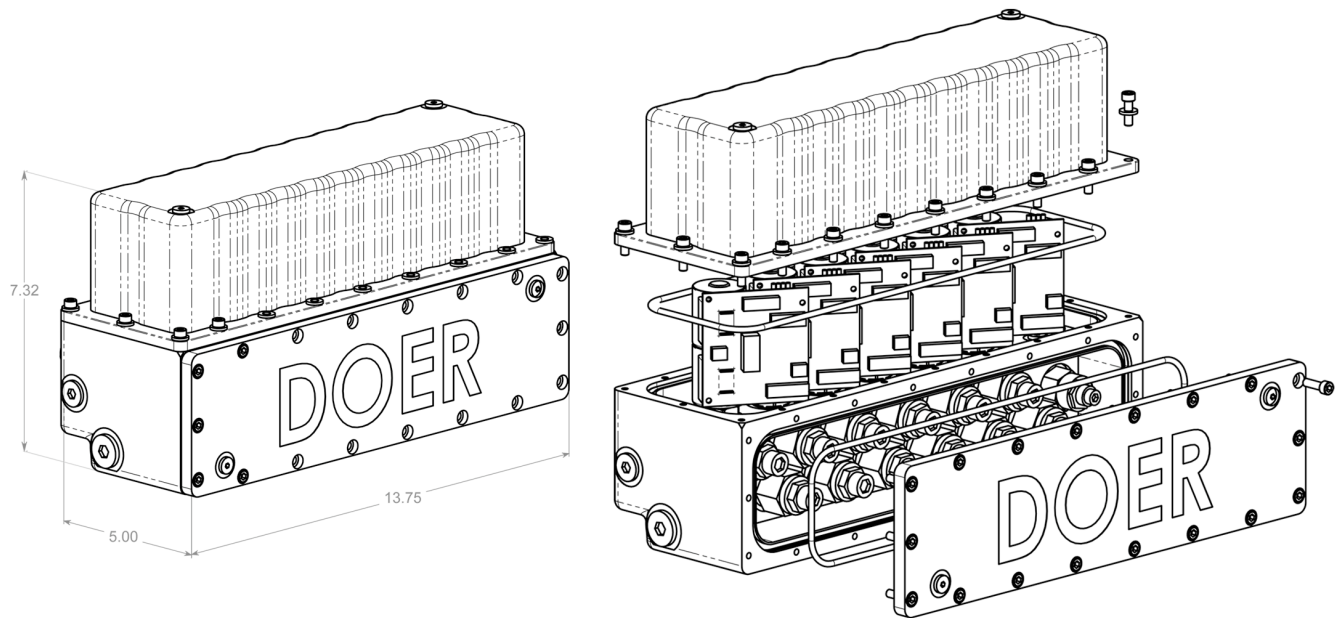
The premium valve pack in the series incorporates proportional flow control valves controlled by DOER boards with counterbalance valve safety. True proportional flow control, hydraulic safeguards, and versatile communications combine in this 3000m (9850 ft) rated manifold package. All valves are protected from saltwater corrosion, and all manifold components are machined and hard black anodized 6061-T6 aluminum resulting in a very durable system.

A six function manifold with proportional flow control and load holding capability to assure positive positioning on rams, while eliminating the jerky response that is often encountered with ordinary pilot operated check valves. For jaws, load holding can be eliminated. Pressure relief on each function protects seals and lines. A pressure reducing valve accepts up to 3500 psi, and can regulate down to 500 psi (241 bar down to 34.5 bar).

The control boards are designed to work on a single serial bus. DOER can design a Labview interface to control your valve installation or you can write the software which follows our very simple serial protocol. A custom stand alone joystick that directly outputs serial commands to the manifold is also available.

Many custom options are available including a custom number of functions, eliminating the pressure regulation function, and including filtration onboard the manifold.

# Specifications



## Hydraulic Specifications

- 4-3 Proportional Flow Control
- 3 GPM max Flow per Valve
- 10 GPM max manifold flow
- Accepts 3500 psi ( 241 bar) System Pressure
- Adjustable pressure regulation
- Load holding
- Adjustable pressure relief of each function
- ORB ports, no NPT
- ORB capped cross porting, all field serviceable
- Common independent electrical compensation available

## Environmental Specifications

- 3000 meter (9843 ft) depth
- Operating Temperature - dependent on oil used but will meet all undersea use
- Storage Temperature -10 F to 140 F (-23 to 60 C)

## Electrical Specifications

- 24vdc or 12vdc operation
- 0.5 A max at 24vdc
- 8 watts per valve at full actuation
- RS-232 or RS-485
- 4 wires to power/control ALL valves
- 100Hz response per valve

## Physical Specifications

- Weight without valves and fittings 15 lbs. (6.8 kg)
- Size 13.5" X 5" X 7.3" (34.3cm x 12.7cm x 18.5cm)
- T6061 Anodized Aluminum
- DOER Valve Control Board  
2.9" H x 2.6" W (7.4cm x 6.6cm)

All specifications subject to change



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