

4-STATION HIGH FLOW VALVE PACK PVG 32

FLOW 120 L/MIN

PRESSURE 210 BAR

WATERDEPTH 3000 METER



Descriptions

The 4-Station High Flow Valve Pack is designed and developed to achieve a cost effective valve pack with high flow capabilities for subsea use. This valve pack allows short delivery time with proven concepts.

The 4-Station High Flow Valve Pack is an universal remotely operated control unit which consists of 4 x directional control valves with individual pressure and flow control, allowing high flow of up to 120l/min in the output lines.

The valve pack use our well known and proven PCB board to operate the hydraulic control valves which give pilot pressure to each PVG valve to control flow and pressure. Each valve group has pressure sensors for monitoring input- and output pressure. Auxiliary signal input is also achieved through a dedicated connector.

Typical Operations

- Subsea Tooling
- High Flow operations
- ROV operations

Features

- Field proven
- Individual pressure and flow control
- High flow outputs
- Auxiliary signal input
- Water ingress alarm
- Compensation fluid filling and air bleed
- Ethernet and serial comms
- Pressure monitoring

SPECIFICATIONS

4-STATION VALVEPACK PVG

General technical specification

| | |
|-----------------------------|---------------------|
| Type | 4 Station Valvepack |
| Part number | PVGPVG32-4F |
| Weight (in air / Submerged) | 30 Kg |
| Dimensions (L x W x H) | 433 x 349 x 273 mm |

Environmental data

| | |
|-----------------------|---|
| Design Lifetime | 25 Years with normal maintenance 3000 meter |
| Depth Rating | -10 + 70 deg C |
| Operating Temperature | -20 + 50 deg C |
| Storage Temperature | |

Electrical data

| | |
|-----------------------------------|------------------|
| Supply Voltage | 20...30 VDC |
| Supply max current | 10 A |
| COMS | Ethernet / RS232 |
| Earthing / Ground Connection size | Threaded M10 |

ROV Electrical interface

| | |
|-----------------------|--|
| Connection J1 | Connector Glen Air G5506-1508-0004 |
| Input 01 | Connector Glen Air G5506-1508-0004 |
| Connection J1 Pin-out | Pin 1 - 0V Pin 2 - 24 VDC Pin 3 - RS485 D- Pin 4 - RS485 D+ Pin 5 - TX+ Pin 6 - TX- Pin 7 - RX+ Pin 8 - RX- |

| | |
|----------------------------|---|
| Connection Input 1 Pin-out | Pin 1 - 0V Pin 2 - 24 VDC Pin 3 - 4-20 mA Pin 4 - NC Pin 5 - NC Pin 6 - NC Pin 7 - NC Pin 8 - NC |
|----------------------------|---|

Hydraulic data

| | |
|---------------------------------------|---|
| Number of function lines | 4 x |
| Supply pressure (from ROV) | 207 Bar |
| Supply flow (from ROV) | 200 L/min |
| Fluid compatibility Supply (from ROV) | Hydraulic oils of power classes (HL, HLP) to DIN 51524. Water Glycol fluid; HFC Fluids (consult with OEM). |
| Fluid Compensation | Shell Tellus T or compatible type |

ROV Hydraulic Interface

| | |
|------------|------------|
| ROV Supply | 1 inch BSP |
| ROV Return | 1 inch BSP |

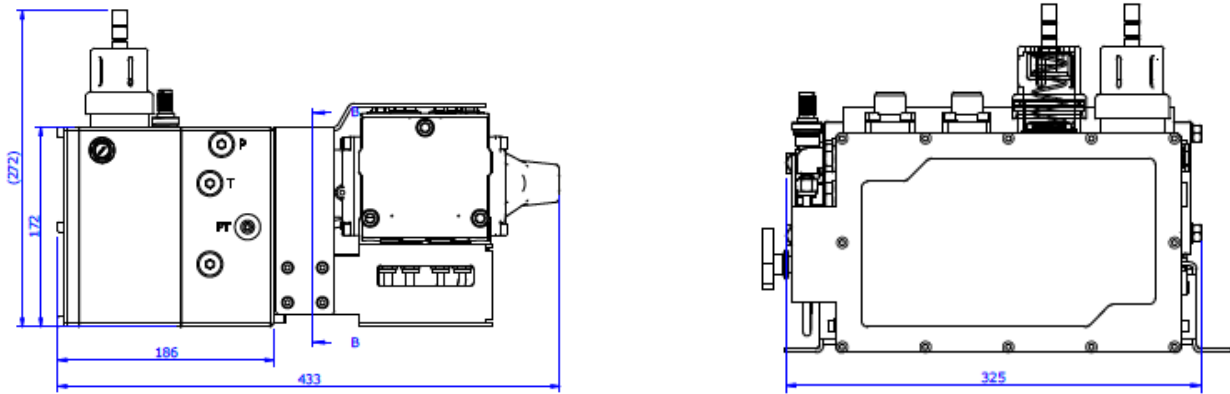
Hydraulic interface

| | |
|-----------|-----------------------|
| Port 1a/b | ½ inch BSP - 25l/min |
| Port 2a/b | ½ inch BSP - 120l/min |
| Port 3a/b | ½ inch BSP - 120l/min |
| Port 4a/b | ½ inch BSP - 25 l/min |

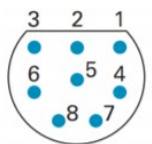
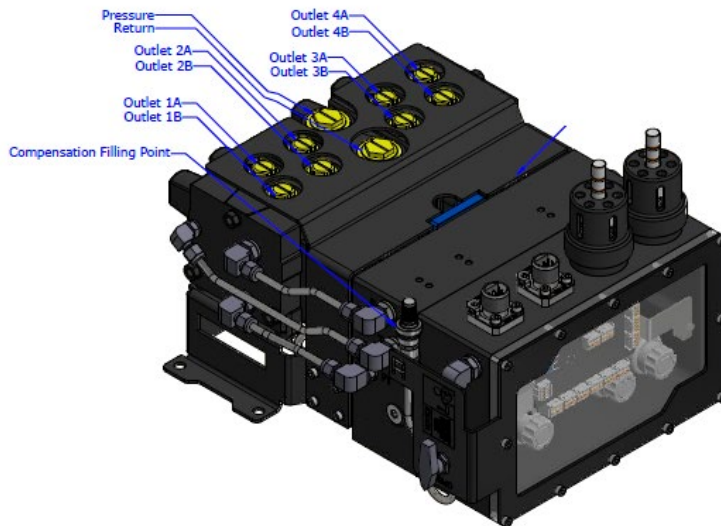
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Dimensions



Hydraulic ports and connector pin-out



5507-1508 Face view

- Connector A - Pin-Out**
1. 0 V
 2. 24 VDC
 3. RS485 D-
 4. RS485 D+
 5. Eth TX +
 6. Eth TX -
 7. Eth RX+
 8. Eth RX -

- Connector B - Pin-Out**
1. NC
 2. 24VDC
 3. 4-20mA
 4. NC
 5. NC
 6. NC
 7. NC
 8. NC

