

# Multifluid Pump

The multifluid pump is a self-cycling double piston hydraulic unit. The assembly includes an internal directional valve and a pressure tolerant auto-reverse electrical timing circuit. It simply requires driving oil supply and a 24V signal from the ROV.

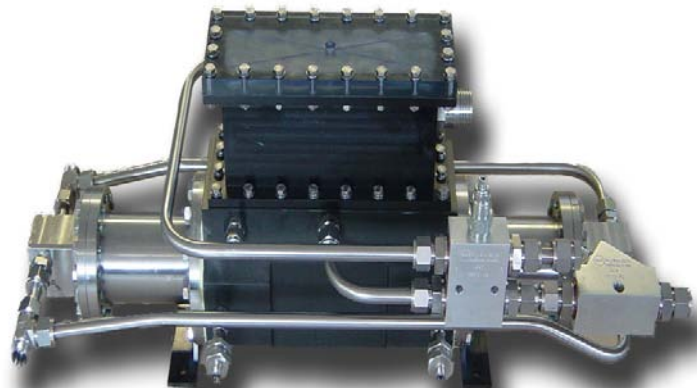
The system was developed for the specific needs of both reliable fluid injection and deepsea buoyancy tank pumping from an ROV. It has specific ROV details such as double barrier sealing with venting, debris tolerance and materials for seawater use.

It can operate either:

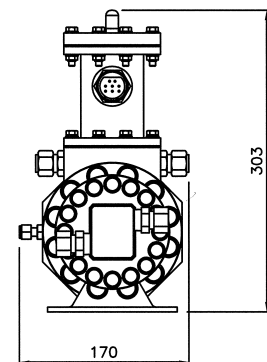
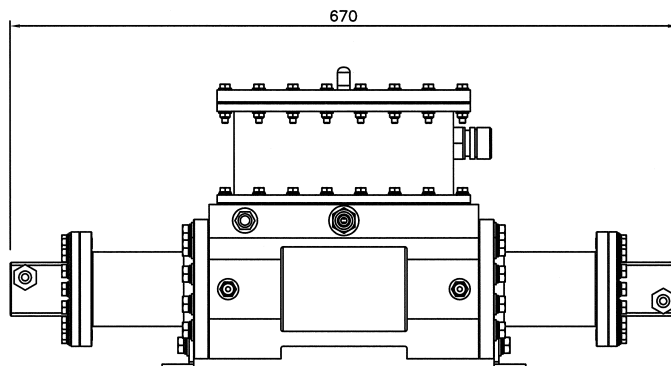
- As a normal pump to deliver high pressures
- As a suction pump to deliver high relative suction in deepsea conditions.

## Features

- High Pressure or Suction
- +/- 300 Bar
- 3000 m Rated
- Light Weight (26 kg in water)



## Dimensions



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Specifications		Options
Weight in air:	36 kg Negative (including external pipework and valves)	<ul style="list-style-type: none"> <li>■ Pumps can be produced in alternative intensification ratios and displacement s</li> </ul>
Weight in seawater:	26 kg Negative (including external pipework and valves)	
Depth Rating::	3000 m	
Pressure Intensification:	2:1	
Swept Volume:	237 cc per water chamber	
Cycle Rate:	33/minute (A & B chambers full cycle) 66/minute half cycle	
Input Oil Rate:	30 lpm minimum (essential)	
Input Oil Pressure:	200 bar nominal	
Output Water Flow:	(with 30 lpm and 195 Bar relief setting on oil input).  Figures are similar for suction or pumping 16 lpm up to 300 bar 10 lpm up to 330 bar (stall at 360 Bar)	
Fluid Compatibility:	Water based solutions including:  - The standard seals are suitable for freshwater, seawater, HW540, Transaqua HT and similar water glycol solutions  -Check with PSSL for specific fluid compatibility on other fluids or high temperatures	
Materials:	Marine grade Stainless Steel and Anodised Aluminum	
Supply Voltage:	25 Vdc at 0.9A	
Connector:	Bulkhead 5507-2008	
Data Sheet: A001-350-033 Issue 5		

The specification details are illustrative for marketing purposes only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement.



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821 Jupiter Park Drive  
Jupiter, Florida 33458-3946 USA  
Tel: 00 +1 561 743 7000  
Fax: 00 +1 561 743 1313

10642 West Little York, Suite 100  
Houston, Texas 77041 USA  
Tel: 00 +1 713 329 8230  
Fax: 00 +1 713 329 8299

Ings Lane, Kirkbymoorside  
York YO62 6EZ UK  
Tel: +44 (0) 1751 431 751  
Fax: +44 (0) 1751 431 388

Unit 6, Westhill Business Centre  
Endeavour Drive, Aberdeenshire  
AB32 6UF UK  
Tel: +44 (0) 1224 748 390  
Fax: +44 (0) 1224 748 399

10 Changi North Street  
1 #03-01  
Singapore 498826  
Tel: +65 (0) 6214 04 43  
Fax: +65 (0) 6214 05 53

www.perryslingsbysystems.com