

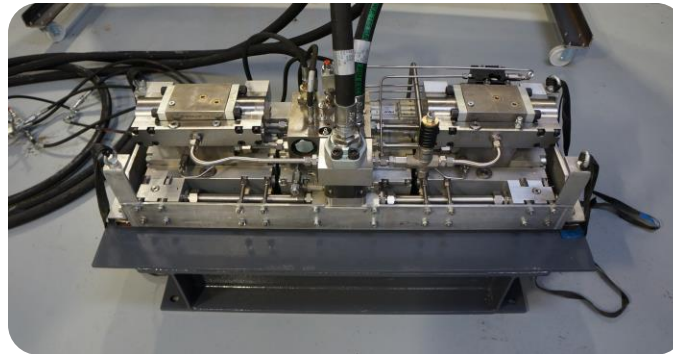
# RQ-016 – BOP Shutdown System

## WHATS INCLUDED

BOPSS pump.  
 Pressure Gauges.  
 Operational hoses.  
 Operations Manual.  
 Certificate Pack.

## OPTIONS

Spares Kit.  
 Skid with Buoyancy.  
 Sea Water Suction Valve.  
 Topside Transfer Pump.  
 Fluid Reservoirs.



## Key Features:

- Provides enough power to be APIS53 Compliant on Drill Support Contracts.
- Skid Mountable.
- Seals can be upgraded to pump methanol.

## Description

A BOP (Blow out Preventer) is a large, specialized valve designed to seal off the wellhead in extreme cases that a blowout may occur. They are critical to preserving the safety of the crew, rig and environment.

The ROVQUIP BOP Shutdown System (BOP-SS) has been specifically designed to provide high flow and pressure in order to shut down the BOP in under the required 45 seconds set by API standard 53.

The BOP Shutdown System operates the BOP's rams with a maximum pressure of 345 Bar at 100 L/min. The systems pressure is built up in two separate stages, this is to seal the well bore effectively and safely. The pressure is switched over manually, but automatic switching can be installed. Stage 1 can deliver a maximum flow rate of 450 L/min at 90 Bar.

The BOP-SS is designed to be run from a 150Hp vehicle and can be used with either water-based glycol, mineral oil or sea water. It has been designed to run directly from the ROV main system with absolutely Zero cross contamination allowing for maximum power input from ROV.

If required, the pumps can also be configured for methanol pumping. The BOP Shutdown system includes a new unique control system that allows the user to switch the suction from Glycol to sea-water in the event of an emergency.

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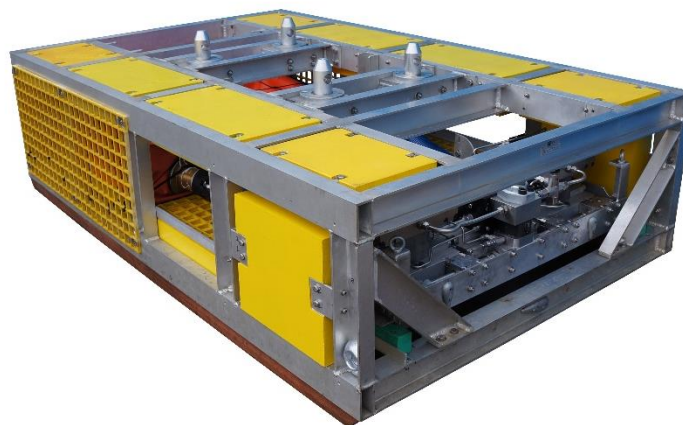
Pump Characteristics			
Input Pressure - Bar (PSI)	Input Flow - LPM	Outlet Pressure – Bar (PSI)	Outlet Flow – LPM
207 (3000)	255	1 <sup>st</sup> stage: 90 (1300) 2 <sup>nd</sup> stage: 345 (5000)	450 100
207 (3000)	220	1 <sup>st</sup> stage: 90 (1300) 2 <sup>nd</sup> stage: 345 (5000)	385 94
207 (3000)	180	1 <sup>st</sup> stage: 90 (1300) 2 <sup>nd</sup> stage: 345 (5000)	310 75
207 (3000)	150	1 <sup>st</sup> stage: 90 (1300) 2 <sup>nd</sup> stage: 345 (5000)	260 65
Overall Specifications			
Weight in Air		160kg	
Weight in Water		120kg	
Dimensions		L1220 x W365 x L295mm	
Suitable Media		<b>Input:</b> Mineral Oil <b>Output:</b> Mineral Oil, Sea Water, Water-Based Glycol, Methanol (optional)	

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The image on the left shows our BOPSS mounted into a Multipurpose ROV skid as a package (RQ-037).

This comes with two x 200L reservoirs and a seawater switch for sucking in water if the glycol runs out.