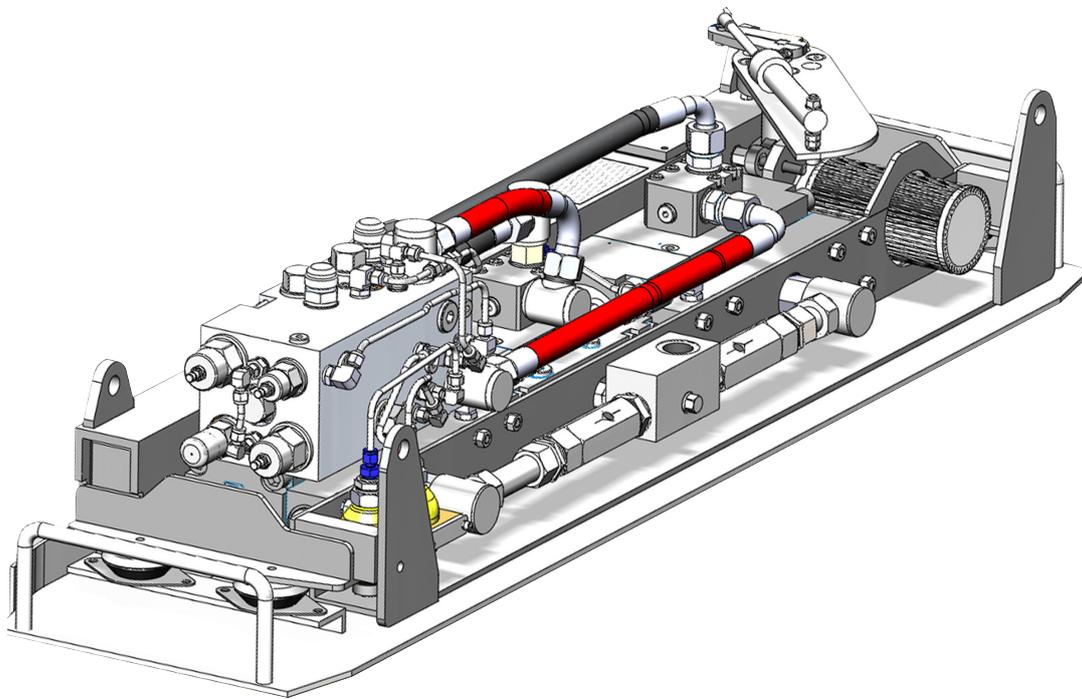


3-Stage Hi-Flow Pump



FEATURES

Series High/Low Pressure Pump Arrangement

Automatic Stage Transfer

Emergency Sea water Suction Design

3-Stage Hi-Flow Pump

The pump set consists of two low (LP) pumps and one high pressure (HP) pump. This pump set is controlled by an Oceaneering hydraulic control manifold. The pump set switches automatically through three modes, depending on the water outlet pressure at the time of operation.

The pump suction inlet is fitted with a 3-way ball valve. This valve allows the inlet fluid to be switched between two different sources of supply to the pump set. One inlet is fitted with an inlet filter (strainer) to allow emergency suction from the sea, whilst the other can be connected to a tank, bladder or other source volume.

The ball valve may be positioned in two different configurations, depending on the location and connection

requirements of the fluid source volume. Check valves are employed to ensure that the flow direction and pressure build up is maintained during pumping operations, and does not bleed back through the system when the pumps are stationary.

The hydraulic control manifold sequences the pumpset operation throughout the pressure cycle. This includes the transition from LP to HP with no loss of pressure. Should there be any pressure drop in the system the cartridge valves installed in manifold will ensure that the pumps compensate accordingly.

Technical data

Performance at typical ROV outlet 851 gpm/190 bar-22.5 gpm/2755 psi	
Water output	
Metric units	Imperial units (US gal)
300 lpm @ 40 bar	79.3 gpm @ 580.2 psi
50 lpm @ 90 bar	39.6 gpm @ 1305.3 psi
80 lpm @ 350 bar	22.7 gpm @ 5076.3 psi
Mechanical data	
Description	Specifications
Size L x W x H:	1260 x 338 x 726 mm
Weight in air:	145 kg
Weight submerged:	TBC
Depth rating:	Full ocean depth

Operating temperature	-10 to +60°C
Hydraulic data	
Description	Specifications
Hydraulic pump type:	2 X dynaset HPW 90/150-85, 1 x dynaset HPW 460/50-115
Pressure max (output):	345 bar (5000 psi)
Test pressure (hoses) (output):	345 bar (5000 psi)
Hydraulic connections (fluid output):	1 in BSPP M/F 60° cone
Hydraulic hoses:	Ø 1 in, 100 bar WP, 1 BSPP SW F STR x 1 in BSPP SW F 90°