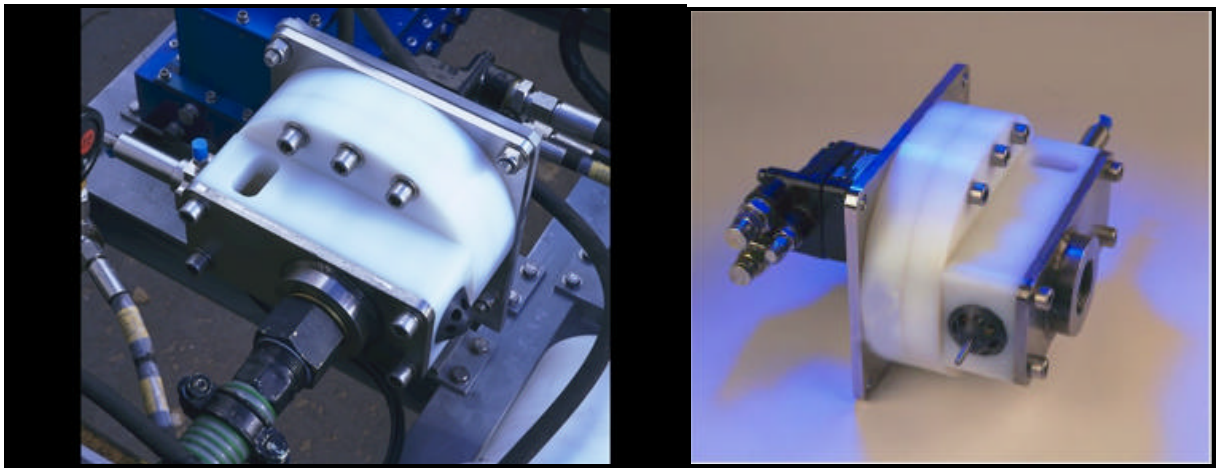
Advanced Marine Innovation Technology Subsea Ltd amts

AZ05 ROV Suction Anchor Pump

The AZ05 Suction Anchor Pump is a compact hydraulic unit configured to work from small ROVs typically in the transition range between Inspection class and Light work class.

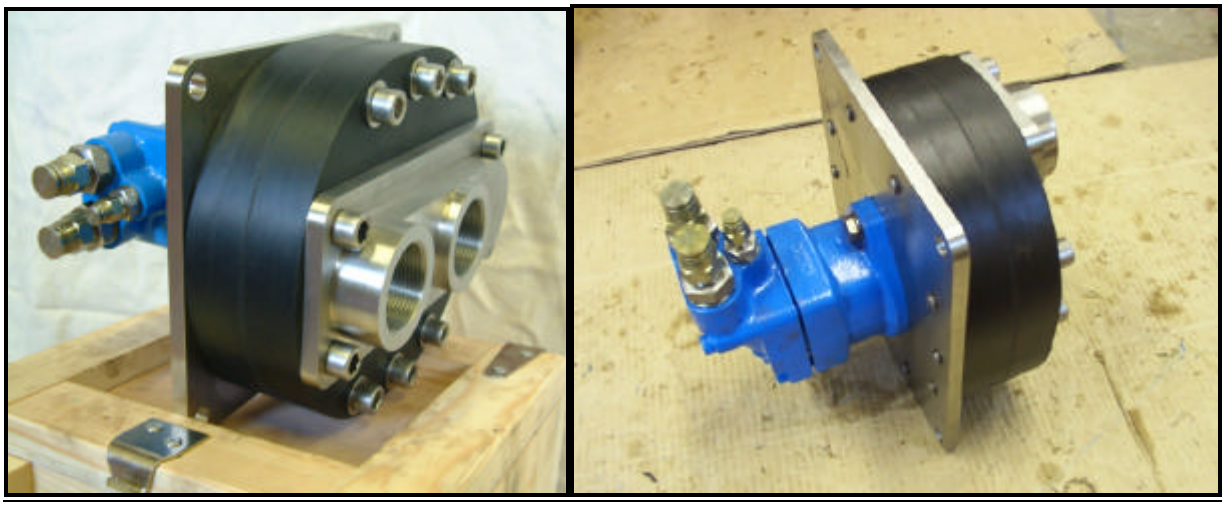
The pump is available with an integral directional valve or as a unidirectional output device. The integral valve permits the use of a single stab connection to the pile. The unidirectional pump uses two stab connections in parallel. In this case the ROV simply pulls back moves sideways and then stabs in the other connection.

The construction of the pump makes maximum use of modern engineering plastics to minimise both the “in air” and “in water” weights.



AZ05-B Bidirectional Version

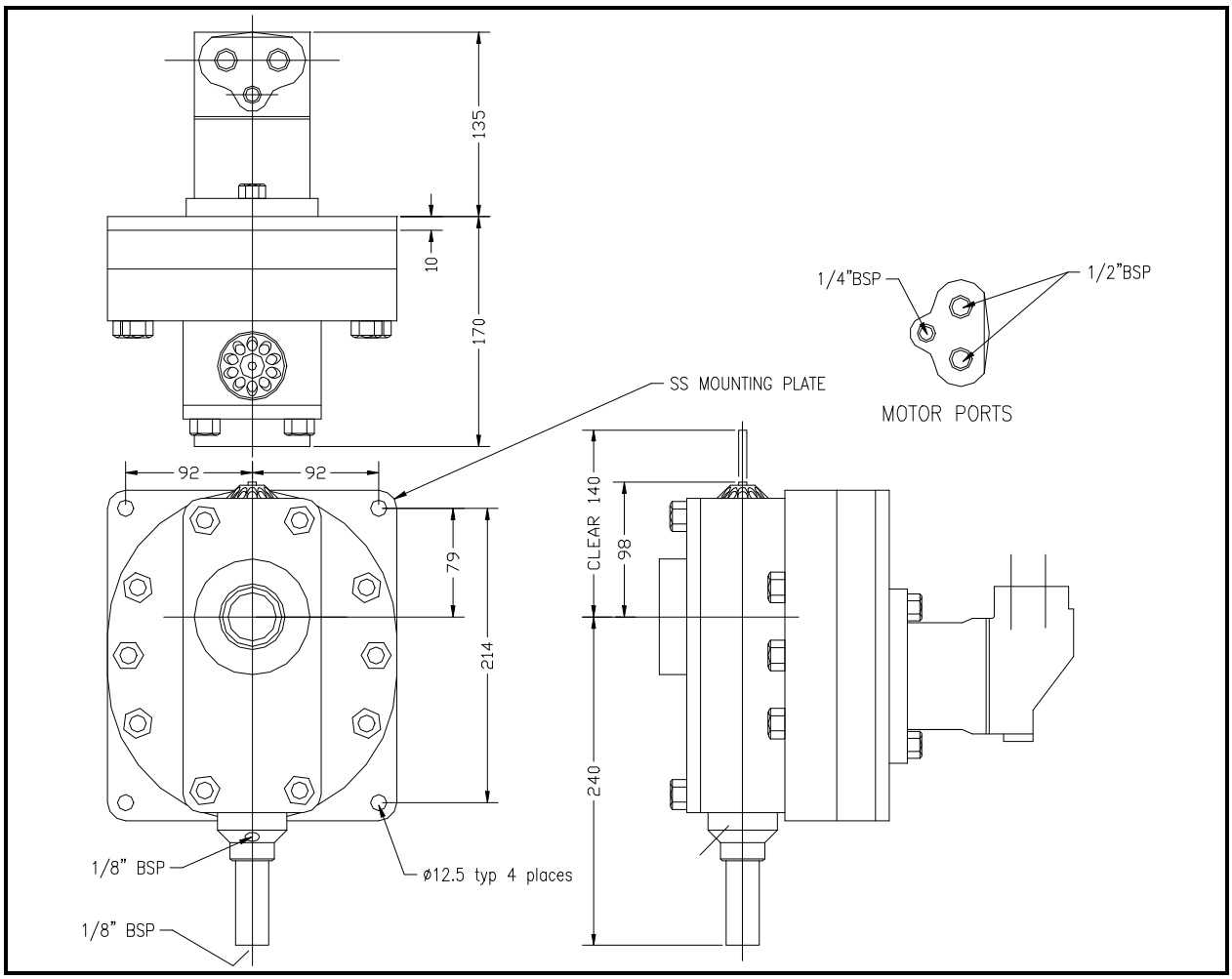
The bi-directional version incorporates a directional valve on the front face of the pump.



AZ05-U Unidirectional Version

The unidirectional version has parallel inlet and outlet ports on the front face of the pump.

AZ05-B Bidirectional Version



Connections

Suction / Discharge	1-1/2"BSP
Valve Actuator	1/8" BSP
Motor A&B	1/2" BSP
Motor Drain	1/4" BSP

Performance

Water Flow up to 45 m^3 /hr at 65 KPa
Pressure up to 600 KPa at 2 m^3 /hr
Note: controlled by hydraulic flow/pressure

Hydraulic Input

Flow	Max 45 l/min
Pressure	Max 250 bar

Physical Properties

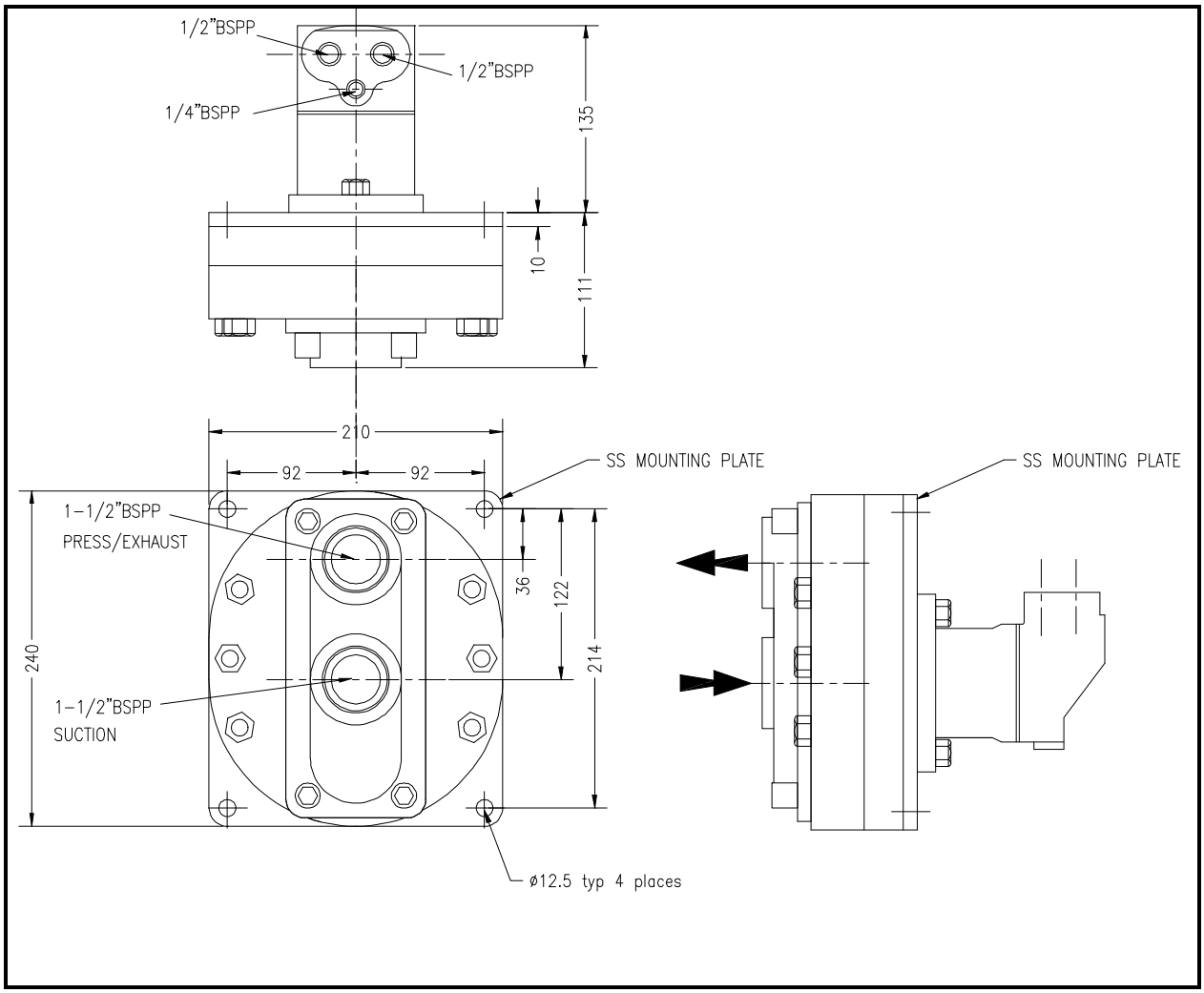
Dimensions	375mm x 210mm x 305mm
In air weight	16 kg
In water weight	9 kg

Optmisation

There are a range of impellers available to permit the pump to be configured for optimum performance on any given ROV for particular pile setting parameters. The configuration should be confirmed at time of order. The maximum performance depends upon the maximum hydraulic flow and pressure available from the ROV and the pump impeller configuration. The pump is controlled down from max performance to match pile setting parameters by controlling the hydraulic supply.

Specifications are subject to change due to a policy of continuous improvement.
Please confirm current build standard at time of order.

AZ05-U Unidirectional Version



Connections

Suction	1-1/2"BSP
Discharge	1-1/2"BSP
Motor A&B	1/2" BSP
Motor Drain	1/4" BSP

Performance

Water Flow	up to 45 m^3 /hr at 70 KPa
Pressure	up to 600 KPa at 2 m^3 /hr

Note: controlled by hydraulic flow/pressure

Hydraulic Input

Flow	Max 45 l/min
Pressure	Max 250 bar

Physical Properties

Dimensions	375mm x 210mm x 250mm
In air weight	15 kg
In water weight	8.5 kg

Optmisation

There are a range of impellers available to permit the pump to be configured for optimum performance on any given ROV for particular pile setting parameters. The configuration should be confirmed at time of order. The maximum performance depends upon the maximum hydraulic flow and pressure available from the ROV and the pump impeller configuration. The pump is controlled down from max performance to match pile setting parameters by controlling the hydraulic supply.