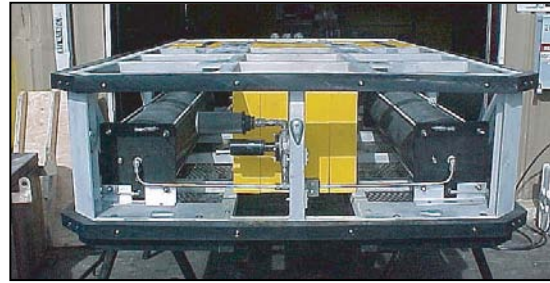


FLUID INJECTION SKID

Technical Data / Specification

Dimensions (overall)

Length	80 in
Width	58 in
Height	20 in
Weight in Air	850 lbs
Weight in Water	600 lbs



*Note: Exact weight dependent upon specific fluid carried in reservoir

Materials

Frame	Aluminum 6061-T6
Fasteners	AISI Grade 316 Stainless Steel
Bumpers	Black UHMW
Reservoirs	Black Amalga™ Spun Fiberglass Tubing
Reservoir End caps / Supports	316 Stainless Steel
Reservoir Pistons	AISI Grade 316 Stainless Steel

Performance Data for Standard Skid Systems

Output Pressure	0 to 5,200 psi
Output Flow	2 to 3 gpm
Input Pressure	0 to 3,000 psi
Input Flow	0 to 6 gpm
ROV Input Fluid	Petroleum based Hydraulic Fluid
High Pressure Output Fluid	Petroleum or Water Based hydraulic Fluid

Overview

The ROV Fluid Injection Skid is an ROV mountable skid built for operations of the Cameron Vertical Connection. The skid is equipped with four sixteen-gallon fluid (petroleum or water based hydraulic fluid) reservoir and hydraulic intensifier unit, which provides 0-5200 psi at 2-3 gallons per minute. The injection skid has the flexibility to remove the two center reservoirs, which decreases the overall weight of the skid. The reservoir fluid contained in the injection skid, are isolated from the ROV's hydraulic system.

Fluid may either be pumped from or returned to the fluid reservoirs. The maximum pressure of the returning fluid is 150 psi. This skid is also designed to remove the two center cylinders to provide a lighter skid for ROV's with limited lifting capability.

The process fluid supply to the hydraulic intensifier unit must be provided with a net positive inlet pressure, which is accomplished by the seawater charge pump. The seawater charge pump pressurizes the reservoirs at approximately 5 to 10 psi to ensure the intensifier does not cavitate. A 17H Dual Port hot stab is furnished with each skid.