

LINEAR VALVE OVERRIDE TOOL (VLOT)

Technical Data / Specifications

Piston Stroke	200 mm
Max Operating Pressure	10,000 psi (690 Bar)
Rotary Actuator - Rotation	100°. - restricted to 45° in tool
Rotary Actuator - Max Press.	750 psi (52 bar)
Rotary Actuator - Max Torque	168 Nm
Piston Weight in Air	37 kg
Docking Body Weight in Air	7.2 kg
Piston Force	79 tonnes @ 10,000 psi



Overview

The LVOT is designed to interface with and manually override subsea linear actuator operated valves which have lost primary hydraulic control functions and returned to the fail safe (closed) position. The tool is designed to be deployed either by TDU (Tool Deployment Unit) or by the ROV's manipulator.

The Titanium Hydraulic Piston is designed to lock onto the linear actuator interlace. When pressurized, the piston will overcome the actuator spring and open the valve. Once the piston is pressurized, the docking body can be disconnected from the piston leaving the actuator/valve open.

The docking body can be re-attached at a later date, the piston depressurized and removed from the actuator when required.

This system is operated in conjunction with a Hydraulic Intensifier, which will deliver up to 10,000psi (690 Bar) if required.