

FUGRO

LINEAR VALVE OVERRIDE TOOLS ISO 13628-8 TYPE A, B & C INTERFACES

Fugro's linear valve override tools (LVOT) are available for ISO 13628-8 Type A, B and C valve actuator override interfaces. They allow various Christmas tree/manifold valve actuators to be overridden and kept open as required.

The LVOT is effectively a hydraulic cylinder being powered by an ISO 13628-8 Type A dual port hot-stab installed in the integral hot-stab receptacle, the supply from which is fed through a hydraulic intensifier before acting on the actuation cylinder.

The tools can be supplied for use with mineral or water based fluids and can be adapted to cater to various stroke lengths and output forces as required. An onboard isolation valve allows the cylinder to keep the valve actuator open for a prolonged period of time.

Alternatively, used in conjunction with the Fugro linear lockout tool (LLT), the actuator can be left open against a mechanical stop for work-over operations.

BENEFITS

- Lightweight design supporting significant stress reduction on subsea infrastructure
- 20 year design life with low maintenance requirements
- Lock-in of pressure for short term durations without requirement for additional lockout tool
- Lightweight and high strength simplifying handling and installation

LINEAR VALVE OVERRIDE TOOLS

Technical Specifications

General

Typical size - Types A, B & C (6.75" stroke and piston retracted)	430 mm x 280 mm x 430 mm (l x w x h) (with ring type handle)
Typical weight in air - Types A, B & C	41 kg (90.4 lb) (with ring type handle)
Typical weight in water - Types A, B & C	32 kg (70.5 lb) (with ring type handle)
Design life	10 years (with regular maintenance)
Design depth	3000 MSW

Tool Supply (from ROV)

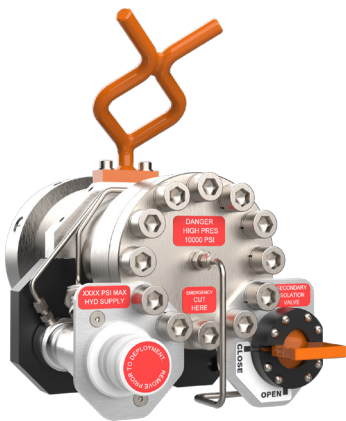
Maximum supply pressure	Intensifier dependent, typically up to 200 bar (2,900 psi), intensified onboard as required
Maximum supply flow	Intensifier dependent, typically up to 15 lpm (41.7 gpm)

Tool Output/Interfaces

Output force range	Design to client requirements (Typically 745kN to 1112 kN for use on 2-1/16", 5" and 7" valves. 1500 and 3000 kN tool are also available)
Interfaces	ISO 13628-8 Type A, B, C and proprietary interfaces as required

Key Features

- Compatible with mineral or water based fluids (specify prior to order)
- Lightweight titanium body
- Ability to hydraulically lock the tool in position on an actuator for prolonged use subsea
- Choice of paddle/fishtail/T-bar or ring handle (client specific handle also available at additional cost)
- Supplied in a dedicated offshore transit case



Hot-stab receptacle and isolation valve



Hydraulic supply intensifier

