

## Proserv Topside Umbilical Termination Assemblies (TUTA)

The primary function of the TUTA is to provide and interface between the hydraulic fluid from the HPU and chemical fluids from the Chemical Injection Unit to the umbilical. Valves mounted on the TUTA allow selective isolation of any hydraulic/chemical line going into the umbilical as well as local indication of line pressure through use of dial gauges mounted on the TUTA.

### Features & Benefits

- Standalone module, compact
- Multiple configurations, can interface with all 3rd party inputs (hydraulic, electrical, optical)
- Customized design, based on client requirements
- Designed using 3D design software allowing for Dynamics testing including complete stress analysis
- Full support and maintenance provided by Proserv
- Installation and commission of units on site done by Proserv
- Proserv can assist in SAT or run full FAT on every unit, allowing plug and play delivery to the site



### Technical Specification

Functionality	System provided to meet client requirements for number of lines and tubing sizes.
Working Pressure Range	Proserv work to client specification building units for a wide range of pressures
Working Temperature Range	-40°C to +80°C
Environmental	NACE compliant designs available for H2S and CO2 areas.
Zone Rating	Safe zone, Zone 3, Zone 2, Zone 1 units available
Electrical	Suitably certified electrical termination junction box and FO patch panel (if required)
Construction	Carbon steel with approved coating specification or stainless steel.

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