

# Wellhead Control Panel 10K



## Profile

These type of wellhead control panel have electrically driven hydraulic pumps to generate hydraulic power source for wellhead valves operational requirements. Hydraulic logic header pressure is derived from the main hydraulic header by using hydraulic regulators and the required control & shut-down logics are developed. The panels can be controlled either locally or remotely. Wellhead control panels are provided with level gauge, level transmitter for oil storage tank, pressure transmitters for hydraulic main header, fusible loop header and wellhead valves control line pressure header. Direct acting high pressure solenoid valves (EEx d) are provided to control the wellhead valve open/close operations. Electrical control panel is provided with start/stop push buttons, ESD push button, indication lamps and selector switches for local & remote controls.

- Closed stainless steel cabinet with seven doors for protection (IP 65) and maintenance
- Four lifting points and two forklift pockets for transport
- Outside installed accumulator bank
- Stainless steel fluid reservoir with level control
- Two hydraulic piston pumps for normal operation
- One hydraulic hand pump for emergency
- One hydraulic pressure filter with gauge for dust indication
- Two hydraulic control areas

### Approvals

- ATEX 94/9/EC – Ex II 3G IIB T3
- Low voltage directive 2006/95/EC
- Machinery directive 2006/42/EC

# Wellhead Control Panel 10K

## Controlled Functions

- Once Master Valve (MV)
- Once Wing Valve (WV)
- Once Surface controlled Subsurface Safety Valve (SCSSV)
- Twice High Integrity Pressure System (HIPPS)

## Operating Elements

- Hydraulic and electric control panes, on per function
- Pressure regulators
- Different valves, turn-switches and information lamps per function

## Power Sources available

- Electrical supply once 400 V, 50 Hz
- Electrical control voltage once 24 V DC for the internal junction boxes

## Ambient Conditions

- Ambient temperature -20 / +40 °C
- Relative humidity 65 %

## Dimensions

- Length 2,825 mm
- Width 1,185 mm
- Height 2,210 mm
- Gross weight 2,150 kg

## Hydraulic System

- Two electric piston pumps 2.7 l/min, MWP 700 bar
- Hydraulic tube system HP Autoclave, LP Swagelok double ferrule
- Fuction lines 5 times supply (MV,WV,SCSSV,HIPPS twice) Twice return (HIPPS 1+2)
- Working fluid Shell Tellus 22 / Transaqua HT

## Electric System

- Once junction box Ex e for supply voltage and motor control and customer connections
- Once junction box Ex e (i) for supply voltage and circuits control and customer connections

