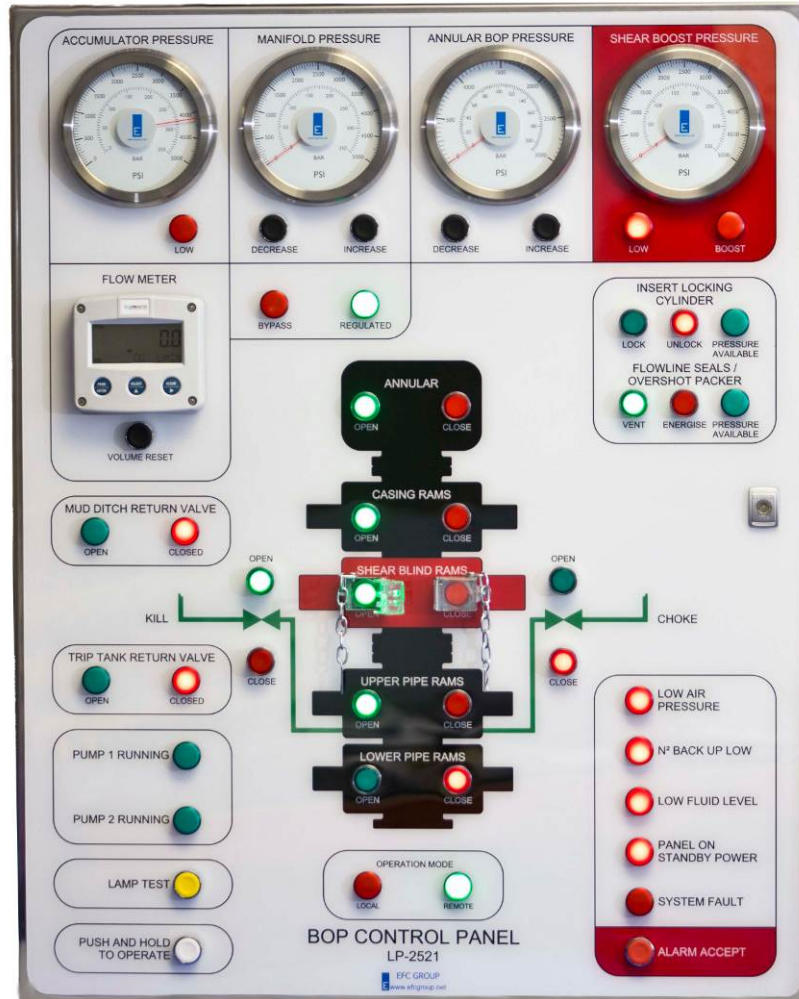


# BOP CONTROL SYSTEM



## THE EFC BOP CONTROLS IS A ROBUST SYSTEM WITH A CENTRALISED ARCHITECTURE ON A FIBRE OPTIC NETWORK.

The EFC Group BOP Control System is used as a means of control for the Blowout Preventer in order to seal, control and monitor the well. The EFC Group BOP Control System is critical to well control ensuring the safety of crew, rig, well integrity and the environment

The BOP control system provides full functionality from two or more locations, typically drillers & toolpushers panel. A solenoid valve enclosure is included to provide an interface from the electric signals from the remote panel and provide pneumatic or piloted hydraulic signals to the BOP control actuators. An HPU can be part of system supply or it can be limited only to hydraulic control skid.

# BOP CONTROL SYSTEM

EFC Group design & manufacture BOP Controls Systems for both surface & subsea stacks. BOP Control projects can both update & convert control systems so they can be readily supported in the future as well as becoming API 16D compliant. Surface BOP Control systems can be API 16D monogrammed.

Systems can include all, or some of these system modules:

- Remote electric control panel for Driller, Toolpusher, Lifeboat Station
- PLC replacement
- Solenoid pressure switch & transmitter replacement
- Local hydraulic controls interface
- Hydraulic power unit (HPU)
- BOP Alarm status indication for mounting at HPU
- Newbuild BOP Control Systems can include remote data signal hand-off

DESCRIPTION	TECHNICAL SPECIFICATION
<b>Zone Rating</b>	Zone 1, Zone 2 or Safe Area
<b>Operating Pressure (HPU)</b>	3,000psi or 5,000psi.
<b>Operating Temperature</b>	-20°c to +50°c
<b>IP Rating</b>	IP65
<b>Documentation Included</b>	User Manual (UM) & Technical & Certification Manual (T&CM)
<b>Certification</b>	API 16D, ATEX/IECEX, NORSOK & CE Marking as required

NB: technical data may be subject to change

DESCRIPTION	BENEFITS
<b>Redundancy</b>	Remove any single point failure risk
<b>Fibre Optic Network</b>	Reduces installation cost & provides 'self-healing' capability
<b>Sensor type</b>	Aids preventative maintenance with self test & diagnostic reporting
<b>Electric Panels</b>	Upgrades legacy pneumatic controls
<b>User Interface</b>	Colour BOP mimic and 4" analogue gauges
<b>Safe Operation</b>	Two hand operation plus alarmed covers for critical functions
<b>Warranty</b>	2 years, extendable to 5 years with annual service visits

## EXPANDABILITY

- Event logging
- 24/7 remote support
- Shear Boost
- Preventative maintenance condition monitoring
- Touch Screen
- Remote Access
- Portable BOP Test Panel
- BOP Pressure Test Unit

