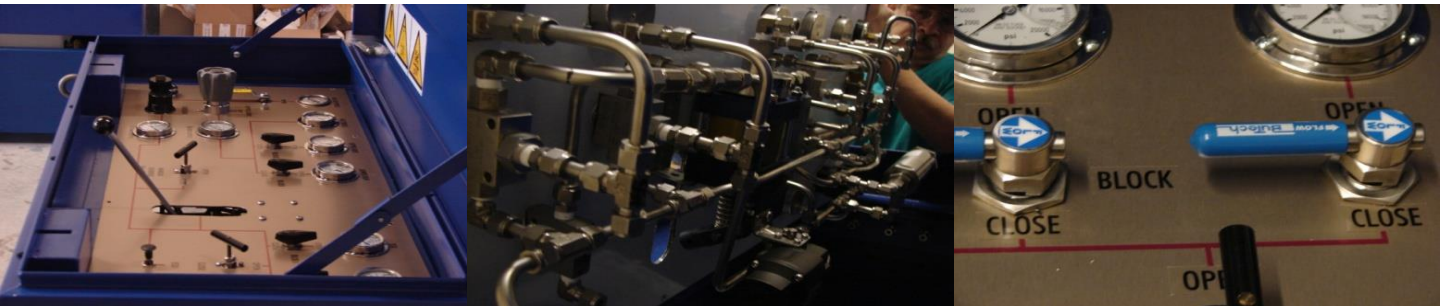


RSS
ESD CONTROL CONSOLES
10,000 to 20,000PSI



Hydraulic/Pneumatic
Emergency Shut Down
Consoles (ESD).

RSS 10,000 to 20,000PSI Hydraulic/Pneumatic Emergency Shut Down Consoles (ESD).

The RSS range of 10 to 20K ESD control consoles can be supplied as a stand alone console or with additional slaved ESD local control boxes. Hydraulic & pneumatic hoses can be supplied as per customer requirements. The consoles are constructed using 316 stainless steel or mild steel powder coated based on customer specification.

The console is designed as an air over hydraulic system providing hydraulic or pneumatic control of shutdown valves. Systems is also provided with local fusible plugs for fire control. Remote ESD pushbutton stations can be supplied for local ESD initiation.

Hydraulic/Pneumatic ESD Control Console - Type Dual Pilot comprises of the following:

- Fluid inlet strainer.
- Pilot line self relieving air pressure regulator.
- 4" Pilot line air pressure gauge.
- Pilot line air throttle valve.
- Pilot line 3/2 air pilot operated, spring return valve.
- Self relieving air pressure regulator.
- 4" Air pressure gauge.
- Air pilot line "fill" button, panel mounted, hold in to quickly fill the pilot line hoses.
- Quick response, balanced diaphragm operated, 5 port, 2 position control valve.
- Emergency stop valve, panel mounted, 3 port, spring return (twist action).
- Pilot line bulkhead fitting.
- 6" diameter 0-20,000 PSI panel mounted pressure gauge.
- Manual override enabling well startup and shut-down
- Air operated high pressure release valve.
- Air operated pump model number AZ-1-187.
- 3/8" NPT(F) air inlet bulkhead connector.
- Automatic drain air filter.
- Air lubricator
- Inlet mains self relieving air pressure regulator.
- Inlet mains air pressure gauge.
- 1/4" NPT(F) air pilot line connection.
- Shuttle valve.
- Pump supply line 3/2 air pilot operated, spring return valve.
- Pump control self relieving air pressure regulator.
- Pump air pressure gauge.
- 25 litre stainless steel reservoir complete with a filler/filter/breather, level sight glass,
- 1/2" NPT(F) drain valve and a removable lid for cleaning purposes.
- Fluid inlet isolator.

The addition of a fusible plug ESD station loop charging circuit. The loop charging circuit shall be actuated by the front panel mounted latch, upon normalization of charge pressure the system will automatically arm itself.

Slaved Remote ESD Pushbutton Stations

In addition to the main control console Rig Supply Services can supply stainless steel or mild steel powder coated slaved remote ESD pushbutton stations for local ESD function. The remote stations can be located adjacent to the ESD valves for local ESD.

The front of the slaved unit comprise a hinged clear plastic plate with an engraved 316 SS plate labeled "Emergency Shut Down." The slaved unit will be provided with suitable fittings to enable connection to the ESD main control console via hose. Once the slaved unit(s) have been coupled to the main console, the air operated pump can be stopped remotely by pressing any one of the emergency stop valves. At the same time, the air operated valve will open releasing the hydraulic fluid in the output line back to the tank and releasing the valve trip to move to the close position.

General

All high & low pressure interconnecting pipe fittings are in 316 stainless steel material. All controls in are panel mounted at the front of the unit in an engraved, color coded stainless steel control panel. The controls are protected when not in use by a hinged and latched cover plate. All external connections are located in a recess and clearly labeled for ease of identification using black on white traffolyte.

All the above equipment is housed within a stainless steel or mild steel powder coated box section framework. The unit is fitted with removable cover plates, and the rear is fitted with a hinged and latched door to facilitate access and maintenance.