About Us

a company of 20 years of experiences ...

• Major in manufacturing and systems integration & packaging.

• Grow from a sole company to partnerships with significant companies worldwide, from Germany, Netherlands to Japan, Europe and Asia.

• Gain strong reputation in Quality, Trust and Loyalty with global oil & gas majors including SHELL, Murphy, Technip, Petronas, MODEC, BP, MISC, SBM etc..

• Manufacturing factory in Johor Malaysia with Headquarter based in Singapore.
Wellhead Control Systems & Control Panels

key equipment in oil & gas industry ...

- To protect oilfield facilities and environment from wellhead fire and emergencies.
- To ensure smooth oilfield oil production.

Mowe manufactures wellhead control systems and panels to safety operation international standards and national regulations.
Wellhead Control Panels

composing of 3 main design types for operating and shutting SSVs including MSSV, WSSV and SCSSV, etc.

a. Hydraulic Systems

b. Hydraulic + Pneumatic Systems

c. Hydraulic or

Hydraulic + Pneumatic Systems with Processor Controlled Logics
Key Functions

- Local On/Off SSV
- Remote control SSV through RTU
- High-Low pressure sense shut-down automatically
- Fusible Plug, Anti-fire Shut-down automatically
- SSV cannot be opened unless local reset after shutoff
- Function of showing system pressure
- Relief Valve shall be installed on each hydraulic circuit to prevent high pressure
- Function of showing hydraulic level and level switch for alarm
- Function of defending pressure impact of system
- Function of defending exorbitant pressure
- Function of system pressure monitoring (by pressure transmitter of control panel)
- Function of remote emergency shut-down (by magnetic valve of control panel)
- Function of On/Off SSV monitoring (by pressure switch of control loop of control panel)
- Function of shield High-low pressure sense
Wellhead Control Panels Options

Single Wellhead Control Panels

Single wellhead control panel is used for controlling one well Surface controlled sub-surface safety valve (SCSSV), Master SSV and Wing SSV. SSVs can be shutdown automatically and manually by WHCP to response all kind of emergency situation.

Single well control panel is categorized the following system according to driven resource:

- Manual control system
- Electrical control system
- Pneumatic control system
- Option for Solar powered control system
- WHCP main functions include Hi/Lo pressure Shutdown, fire fusible plug protection and remote ESD etc.
Wellhead Control Panels Options

Multi-Wellhead Control Panels

Each control module is draw able and can be inter-replaceable without any interruption of other well operation. Common module include oil reservoir, Pneumatic hydraulic pump and standby manual pump.

Main function shows as following:

• RTU shutdown
• Remote Fire fusible plugs protection
• Low pressure / high pressure sensing
• Manual control at panel
• 2 to 32 wells of various designs
Wellhead Panel Operational Diagram
Contact Us

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