



**WELLHEAD
CONTROL PANNELS**

Modular Drawer-Style Well Panels

Design, fabrication, and testing of Modular Wellhead Control Panels.



Interior View:

Each module is tubed with a common supply header, return header, etc., and these headers also include isolation valves to allow for replacement of modules while other wells remain in service.



PLC Panels

For the past few decades, Merla has successfully completed many custom PLC panel fabrication projects, which include:

- Fabrication, testing & installation of many compressor PLC panels including side-mounted transmitters, touchscreen, etc.
- Design, fabrication & testing of many RTU (Remote Terminal Unit) panels for metering skids - used on both production and injection wells.
- Fabrication & testing of PLC panels for the Food & Beverage industry.
- Fabrication & testing of PLC panels for the Wastewater industry.



Merla also fields personnel available to clean up existing systems.

Skid Packaged Automation

Merla specializes in manufacturing chemical injection skids, hydraulic power units, and topsides umbilical termination units required for deep water subsea tiebacks. Below is just a small sample of these projects; [please contact us for more information.](#)



Topsides Chemical Transfer & Injection:

This skid consists of four 35 GPM transfer pumps @ 30 psi discharge, and nine injection pumps for defoamer, emulsion breaker, and clarifier.

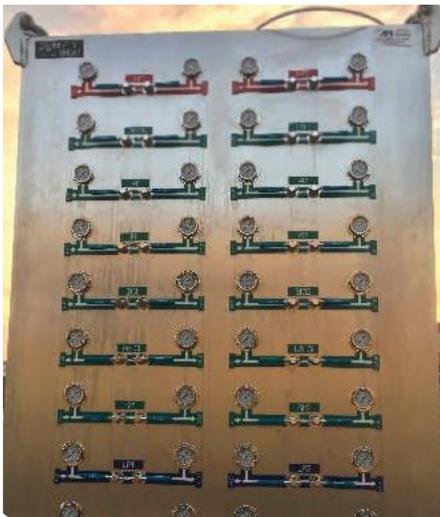


Hydraulic Power Unit:

This particular HPU features a stainless steel skid frame/front plate, SS 200 gallon reservoir (with separate clean side and dirty side), 16 GPM hydraulic fluid recirculation pump, 2 GPM 5,000 psi pumps, .6 GPM 10,000 psi pumps, 15 gallon accumulator bank, 5 gallon accumulator bank, and the typical filters, level transmitters, pressure transmitters, pressure relief valves, pressure control valves, gauges, double-block-and-bleed valves, PLC control panel, etc.

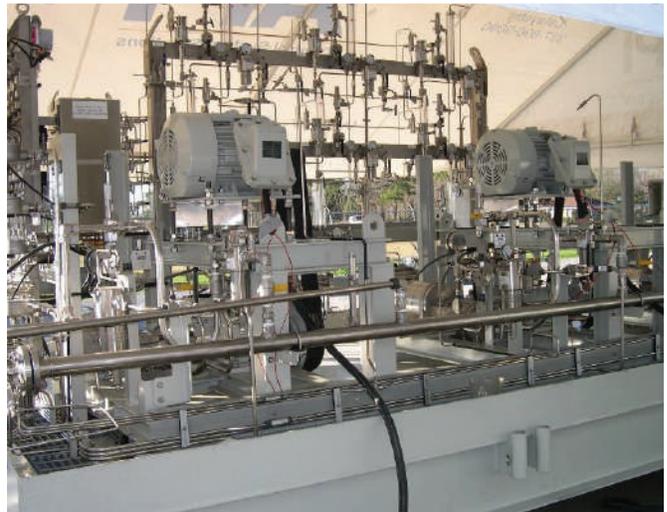
Merla designers provided 3D modeling of the skid frame, designed the front plate, general arrangement, tag layout showing flow paths, etc. The pump/motor combos were mounted on a unique heavy-duty stainless steel slide out system which enabled easy access for the offshore maintenance personnel.

Skid Packaged Automation



Topside Umbilical Termination Unit:

This 78" high x 60" TUTU is designed and built by Merla and consists of a stainless steel construction, 18 lines, tubing up to 3/4", and pressures up to 15,000 psi.



Swordfish Chemical Injection Skid:

10 ton package, 18' Long x 10' Wide, to support three deepwater wells. The system featured three Hydroplex methanol pumps with 15 HP variable speed motors, each capable of injecting .25 - 3 GPM at 7,500 psi. A user-friendly control plate allowed for batch treating one single well (all three pumps simultaneously pumping into one well).



Subsea Chemical Injection Skid:

Quadplex & Triplex Pumps for 8-line Chemical injection Unit with tubing up to 1".

The system also featured nine pneumatic pumps to allow for paraffin inhibitor crystal modifier, paraffin inhibitor dispersant, and scale/corrosion inhibitor at .33 - 10 GPD, and pressures up to 7,500 psi.

Skid Packaged Automation



Chemical Injection Skid:

20 ton package, 22' Long x 14' Wide x 13' High, including 2,750 gallons of chemical storage on the upper deck, tees, handrails, and walkways. Capable of injecting methanol, LDHI, asphaltene inhibitor, and paraffin inhibitor. Methanol injection capacity of 10 gallons per minute at 13,500 psi.

This package is fully automated with flow transmitters, pressure transmitters, level transmitters, solenoids, and PLC panel with touch screen. Offshore commissioning support is also provided.



HPU:

- Pressures up to 20,000 psi
- Air over hydraulic pump
- Filtration down to 1 micron
- Typical reservoir, accumulators, relief valves, regulators, etc.



Many Facilities in Various States

Metering skids for production and CO2 injection wells.

Wellhead Control Panels (and various pneumatic/hydraulic systems)

Merla specializes in designing, manufacturing, and installing wellhead control panels. From single well applications to multi-well, pneumatic, pneumatic-over-hydraulic, electric-over-hydraulic, we have the expertise to provide quality, cost effective solutions.



We can also offer very basic hydraulic systems capable of detecting low pressure (or high and low pressure) and Emergency Shutdown commands, and automatically shutting in an actuated valve.

Various Operators in the Gulf of Mexico:

Pneumatic Separator Control Panels monitoring the typical Level Safety High/Lows, Pressure Safety High/Lows, etc.

Various

PLC operated control panel with 3 outputs. Control the MSV, WSV1, and WSV2 to 5,000 PSI. Pressure transmitters and SOV control.





Stay connected with us

Merla fields service personnel available to perform instrumentation and electrical installations, commissioning, and repairs/maintenance. Many of our personnel have passports and are ready to travel internationally.

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