

Pneumatic and Hydraulic control systems for Oil & Gas



QUALITY

Pneumoidraulica Engineering is a certified company according to ISO 9001:2008

STANDARDS

Systems and components meet the following Standards: ANSI - DIN - IEC - ATEX
- UL/CSA - CE - API - ASME

ATEX



ACTUATORS CONTROL SYSTEMS

They control the opening and closure of a single valve. They are manufactured on AISI 316 stainless steel panel with IP65 protection degree and they can be fixed both directly on actuator and on pipe.

Push-buttons placed on the front are suitable for heavy duty, with the option to protect controls against accidental actuation.

Moreover Pneumoidraulica Engineering manufactures "partial stroke" systems to be installed on actuators for the execution of periodic inspections with no need to stop working.



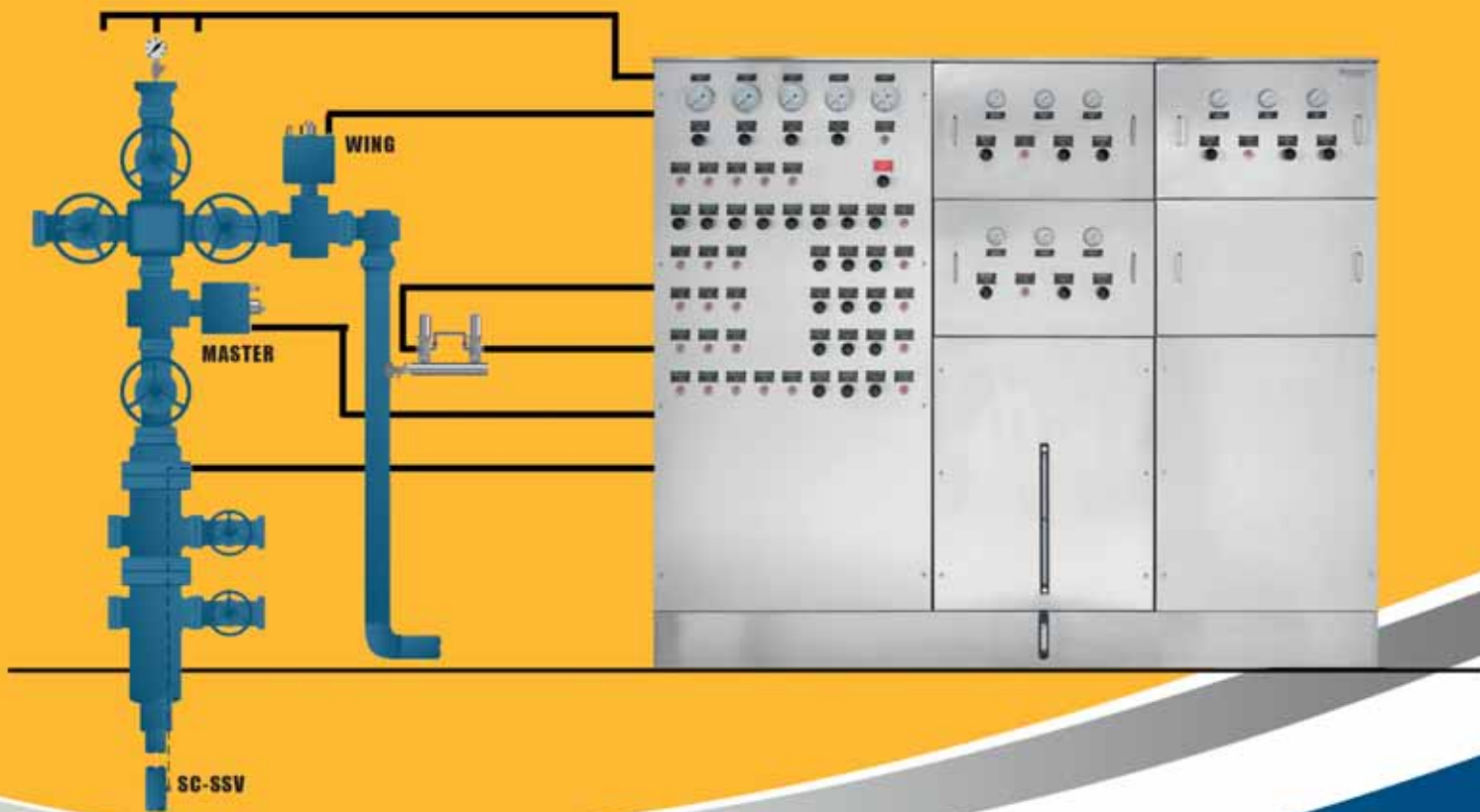
CONTROL OF FUSIBLE PLUGS NETWORK

This systems feed the fusible plugs network by means of an excess flow valve. In case of fire, when one or more plugs melt, the system causes an alarm (ESD). Then this alarm is managed by the DCS for the actions to take after.

This system also includes local control panels for possible emergency actions to be executed by the operator. Those panels are of "Safe-Crash" type because they are manufactured with a breakable glass.



Pneumatic and Hydraulic control systems



PRODUCTS AND SERVICES:

Double ferrule compression fittings
Threaded fittings
Fusible plugs
Valves (ball, needle and manifold)
Control and solenoid valves
Pressure switches (garrett)
Pneumatic Timers

Excess flow valves
Pressure gauges
Air and gas dryers
Compressed air vessels
On-site assistance
Personnel training
"Global Service" supply

Pneumoidraulica Engineering designs and manufactures various types of wellhead control systems for oil & gas industry.

Systems manufactured by Pneumoidraulica Engineering distinguish themselves for the high reliability obtained by using components properly designed for heavy duty. The metal to metal seal adopted is an AISI 316 stainless steel system able to assure the seal of servovalves with no need of "soft" seal parts.

Main advantages:

- *No wearing parts
- *No need of maintenance
- *Perfect compatibility with a large number of fluids, even aggressive

- *No "stick-slip" effect even in case of long time stops in the same position
- *No fail operation due to gasket cracking

WELLHEAD CONTROL PANELS

Integrated cabinets including all electric wirings, pneumatic and hydraulic connections necessary for the control of well head valves. They are manufactured to work with different pressure ratings based on each customer requirement, till to 690 bar (10.000 PSI). The hydraulic generation can be realized by electric motor or by totally pneumatic systems, also directly by using the gas coming from the well. The electric circuit for the management of interfaces with DCS, hydraulic accumulator and oil tanks are placed inside the cabinet, in separate sections.

In order to facilitate maintenance operations those systems can be manufactured in a modular version with "drawers to be extracted" and/or with base mounted components.

All versions are made in AISI 316 stainless steel with IP65 protection degree.



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