

PT500 USED FOR REMOVING AND RE-TENSIONING GAS CYLINDER VALVES



Swap”N”Go approached us to provide a more efficient operator friendly way of removing old valves from gas cylinders for inspection purposes. Then to re-tension new valves between 110 N.m and 240 N.m.

The range is large owing to the fact that the valves must be orientated to suit the position of the steel shroud that protects it.

Basically they wanted a tool that would do this without reinventing the wheel.

We came up with a PT500 single speed, suspended by a spring balance and controlled by a custom built control box with 3 settings only.

We call it a “GO/NO GO” style as the first setting at 110 N.m does the minimum torque required. The operator then selects the 240 N.m setting to orientate the valve to the correct position. If the valve does not line up within these 2 settings, the cylinder is removed from the line for the further inspection.

One final setting is set at 500 N.m for removal of the valves.

The simple reaction is captive in the hanging frame. When the tool is raised by the operator the spring balance retracts and lifts the tool away from the job at hand.



Swap"Go realise that in the future they will probably require a final torque reading to be obtained and recorded. This system allows them to easily upgrade by fitting an annular transducer later on.

The Control Box is fitted with our usual Parker filter Regulator unit feeding into 3-panel mount L port valves. 2 of which are regulated, using SMC regulators to achieve the 2 lower torques. All outlets go to a common outlet port, which feeds the tool.

We have removed all gauges from the unit and fitted quick release fittings so that the operator cannot adjust the settings. Settings are checked using our master gauge.