

## Regulators, Valves and Valve System Solutions for the Oil & Gas Industry



- |                          |                              |
|--------------------------|------------------------------|
| Wellhead Control ■       | ■ Helicopter Ground Support  |
| Subsea Valve Actuation ■ | ■ Breathing Air Distribution |
| Blow Out Preventer ■     | ■ Flare Stack Purging        |
| Fire Fighting ■          | ■ Saturation Diving          |
| Filtration ■             | ■ Pressure Relief            |

# Welcome to Hale Hamilton

Hale Hamilton (a Circor International Inc Company) has since 1947 been in the business of the design, development, manufacture, supply and support of high performance / high pressure regulators, valves and valve systems, required to perform under critical conditions of pressure and flow, in satisfying the demanding technical requirements of our customer's world-wide.

With continued investment in personnel, equipment and quality, we are focused on increasing our presence in strategic markets within the Oil & Gas sector by providing our customers with innovative engineering solutions and robust products that exceed their expectations.

## Products and Applications

Hale Hamilton manufactures a wide range of stainless steel valves, regulators and filters along with valve packages for the Oil & Gas Industry.



### Hydraulic Pressure Regulators

The Series 2835 Hydraulic Pressure Regulator provides accurate pressure control, accurate spill control and leak free performance over an extended service period in pressure systems working up to 690 barg / 10,000psig. When adjusting the outlet pressure, the regulator is comfortable to operate thanks to low operating torques across the range and the easy grip handle.

A typical application for our Hydraulic Pressure Regulators is found within Wellhead Control Panels used to control either single or multiple wells. In this application, our regulators reduce the supply pressure to that required by both low and high pressure hydraulic supply headers. Accuracy of pressure control, leak integrity and durability are all key features that make the latest range of Hydraulic Pressure Regulator from Hale Hamilton ideal for such an application.

### Gas Pressure Regulators

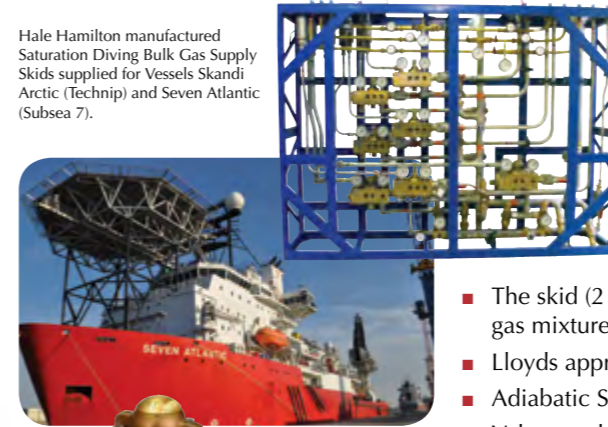
Hale Hamilton manufactures a range of spring and dome loaded Pressure Regulators for applications found in the Oil & Gas Industry where compatibility with Natural Gas, Oxygen, Breathing Gases and Corrosive or sour gas service where resistance to hydrogen sulphide is critically important.

A range of Filters, Relief Valves and other accessories in a range of materials are available for use with our Pressure Regulators.

Hale Hamilton's Flare Gas Purging Panel utilises the RH25 Dome Loaded Regulator and F105 Filter. The panel introduces nitrogen to the flare gas supply line to snuff out the flare or to purge the flare stack.



Hale Hamilton manufactured Saturation Diving Bulk Gas Supply Skids supplied for Vessels Skandi Arctic (Technip) and Seven Atlantic (Subsea 7).



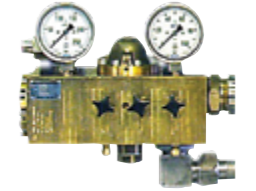
### Breathing Gas Pressure Reduction and Distribution

Hale Hamilton's manufacture a range of valves, filters and pressure regulators together with complete skided valve packages for breathing gas applications including Saturation Diving, Safe Havens for Hydrogen Sulphide Protection and equipment for Automatically Re-filling Breathing Air Cylinders.

- The skid (2 per boat) supplies Oxygen, Heliox and various Therapeutic gas mixtures to the saturation diving system.
- Lloyds approval attained for the design and manufacture.
- Adiabatic Shock Approvals for the oxygen valves and filters available.
- Valves and filters supplied either line mounted or built into manifold blocks.
- Manifold blocks simplify the skid design and reduce the quantity of leak paths and components in the skid, save space and reduce cost.



Hale Hamilton valves, regulators, filters, relief valves and manifolds fitted to the skid



### Automatic Cylinder Filling of Breathing Air (BA) Cylinders for Fire fighting and Diving.

The Hale Hamilton 'Autocharge' System provides a safe, repeatable and fast option for re-filling BA cylinders.

- Autocharge achieves a higher settled pressure in the cylinder than filling direct from a BA compressor.
- Filter packs & air quality testing guarantees breathing quality air.
- Autocharge is safe, fast, consistent and fully automatic.



Automatic Cylinder Filling Rig for Fire Fighting & Dive Air Cylinders



### Portable Charging Units (PCU) (Oxygen and Nitrogen)

Hale Hamilton PCU's provide solutions for charging & topping up O2 & N2 systems on board various types of aircraft and remote pressurised systems on fixed installations. The PCU is certified for flight and often used by Crew / Cargo Transfer services working in remote areas where the usual ground support facilities are not available.



Recommended by Agusta Westland as ancillary equipment for use on its helicopters.

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