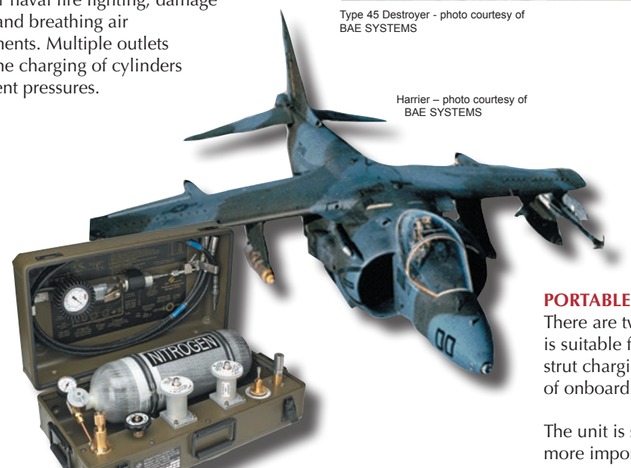
DEFENCE SYSTEMS

AUTOCHARGE

Hale Hamilton's vast experience in the design of industrial cylinder filling plant has been developed to provide military users with a product offering safe, rapid and consistent bottle charging; thus removing the dangers of over pressurising and over heating.

Autocharge provides automatic cylinder filling for naval fire fighting, damage control and breathing air requirements. Multiple outlets permit the charging of cylinders at different pressures.

Type 45 Destroyer - photo courtesy of BAE SYSTEMS



Harrier – photo courtesy of BAE SYSTEMS

PORTABLE CHARGING UNIT

There are two versions available, the nitrogen version is suitable for aircraft tyre inflation and suspension strut charging. An oxygen version enables the filling of onboard bottles.

The unit is self contained and easy to use, but perhaps more important, it's lightweight and robust.

LAND APPLICATIONS

The company supplies equipment for the height suspension system of military vehicles and is an established supplier on the Challenger 2 main battle tank.

Valves are also supplied for use on the Field Howitzer Gun; specialist hydraulic valves are used to lower and raise the gun to and from its ground firing position to its towing position.

UFH Gun - photo courtesy of BAE SYSTEMS

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Manufactured in the United Kingdom

CIRCOR AEROSPACE & DEFENSE

HALE HAMILTON®
Excellence in Pressure & Flow Control

High Performance Fluid Control Equipment

Manufactured in the United Kingdom

www.halehamilton.com

WELCOME TO HALE HAMILTON

THE COMPANY

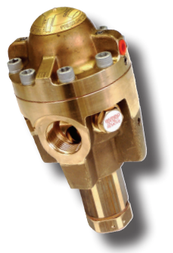
Hale Hamilton is a leader in the design, manufacture, supply and support of high performance fluid control equipment; designed to perform under critical conditions and satisfy demanding technical requirements worldwide.

The Company was established in 1947 and our principal asset is the knowledge, experience and commitment of our people. Through this expertise we provide a comprehensive package of products and systems that are competitively priced, of unrivalled quality, delivered on time and with a full spares and service backup.

Some of our most important attributes are competency in valve design, system engineering and project management.

Hale Hamilton operates a quality management system and is accredited to ISO9001:2008.

STANDARD HIGH PRESSURE PRODUCTS



REGULATORS AND CONTROLLERS
Two basic types of pressure controller are available; dome loaded controllers and spring loaded regulators.

BACK PRESSURE MAINTAINING VALVES
A choice of valves with either a spring loaded diaphragm or a spring loaded piston are available, providing accurate control of back pressure in a gas or hydraulic system.

SOLENOID VALVES
The company design & manufacture specialist solenoid valves for defence applications. The range includes 2-way and 3-way direct, pilot operated and pilot operated balanced solenoid valves.

RELIEF VALVES
Pressures from as low as 0.03 bar (0.45psi) up to pressures in excess of 550 bar (8,000psi) are accommodated by our range of relief valves.

NON-RETURN VALVES
Our standard range of non-return valves features a mitre seat with 'o' ring insert to ensure a leak tight shut off with an efficient flow path.

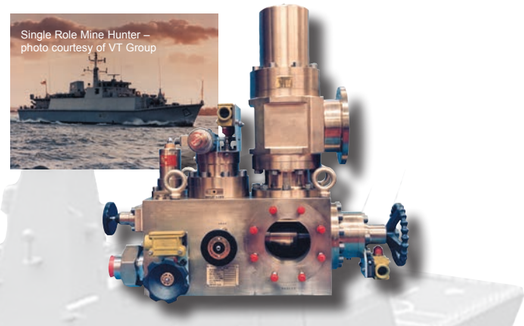
MANUAL STOP VALVES
A wide variety of stop valves suitable for working pressures from zero up to 414 bar (6,000psi).

FILTERS
Hale Hamilton offer in line filters of the sintered bronze type or of stainless steel wire wound on a brass former.

Manufactured in the United Kingdom

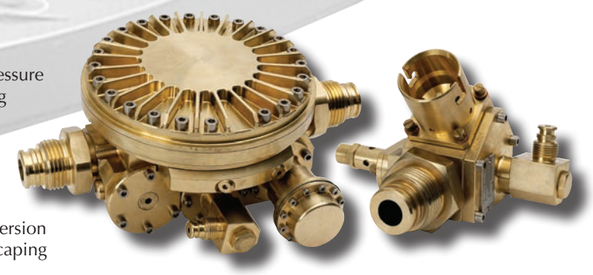
NAVAL APPLICATIONS

REDUCING STATIONS
A reducing station is a system of control valves, usually embodied in a single forged nickel aluminium bronze, or stainless steel block, that fulfils the safe control and reduction of high pressure stored air down to a lower pressure to suit the specified application. Typical applications include main engine and diesel generator start.



PNEUMATIC AND HYDRAULIC SYSTEMS
A comprehensive range of products and systems associated with weapons handling, torpedo and general weapons discharge.

HOOD INFLATION SYSTEM
The Hood Inflation System comprises a primary pressure regulator, a main pressure controller and a charging connection. At the heart of the system is the HIS pressure controller. This valve is mounted in a submarine's escape tower and tracks the rising pressure as flooding takes place.
It must respond to the changing tower pressure, meeting the demand of the submarine escape immersion suit and maintaining a positive air supply to the escaping submariner.



Sauro Class –
photo courtesy of Italian Navy

BUILT IN BREATHING SYSTEM
Our Built in Breathing System comprises all the valves necessary to control the dedicated clean air supply used during a planned escape from a submarine. The complete system senses the escape compartment pressure, maintaining a constant positive supply of breathing air to the submariners preparing to escape.

HULL AND BLOW VALVES
Hull valves enable the critical safe transfer of fluids through the submarine pressure hull. Their design may be configured to suit any length and bore size requirements, and these valves may be supplied with a hand wheel or an 'out of reach' opening mechanism. Hale Hamilton's range of hull valves are fitted on all UK submarines, including Astute Class, and on many other boats worldwide.

HMS Vanguard –
photo courtesy of BAE SYSTEMS

Manufactured in the United Kingdom

www.halehamilton.com