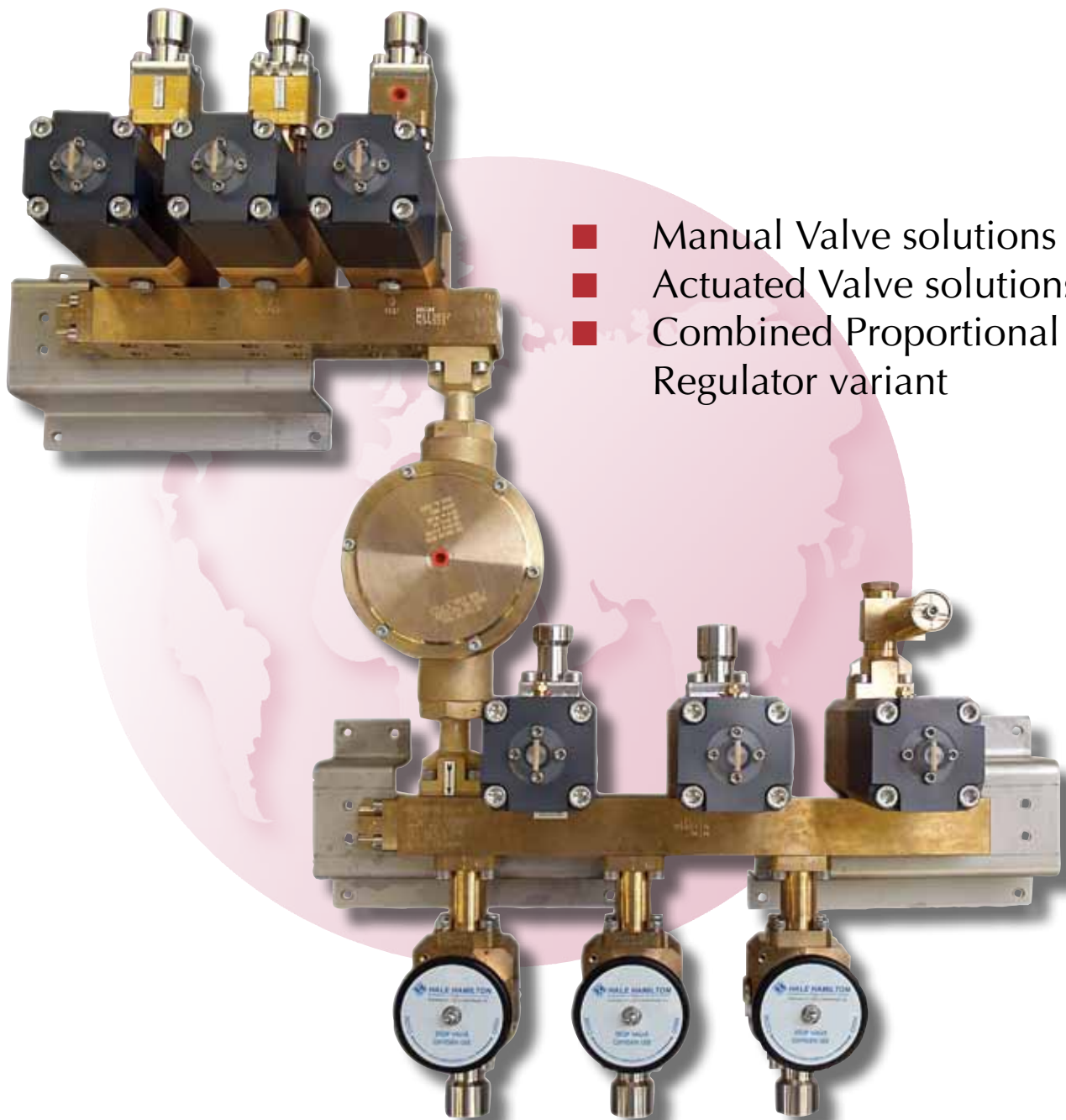


## Industrial Gas - Single & Mixtures Filling Manifolds



- Manual Valve solutions
- Actuated Valve solutions
- Combined Proportional Regulator variant

# WELCOME TO HALE HAMILTON

## WELCOME

Hale Hamilton is a world leader in the design, manufacture and supply of valves, valve modules and packaged systems for the Industrial Gas Industry.

Working with our large international Industrial Gas customers, our latest product offering, based upon 60 + years of high pressure valve design expertise is a range of fully integrated Single and Mixtures Gases Filling manifolds.

## PROVEN VALVE TECHNOLOGY:

Building on the substantial experience and proven technology gained from our range of N Series balanced manual valves and ASV158 actuated valves, Hale Hamilton have developed a range of “flange” mounted variants, carrying all of the benefits of the previous balanced design;

- Very low opening & closing torque of manual variants compared to conventional unbalanced designs which can be as high as 50Nm.
- Very long operational life due to reduced loads as a result of the balancing feature.
- Manual and actuated valve interface commonality allowing easy upgrade from manual to actuated systems without the need to adjust pipework.
- Built in Instrumentation ports into valve body further reducing the need for addition fittings and welds.

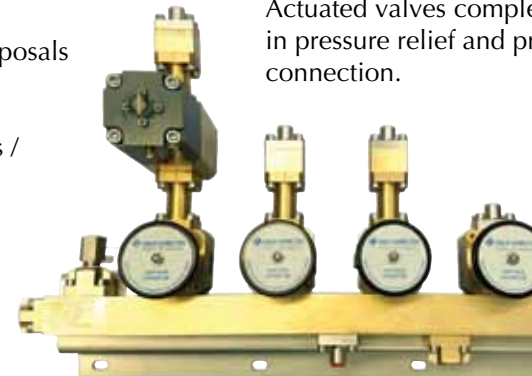
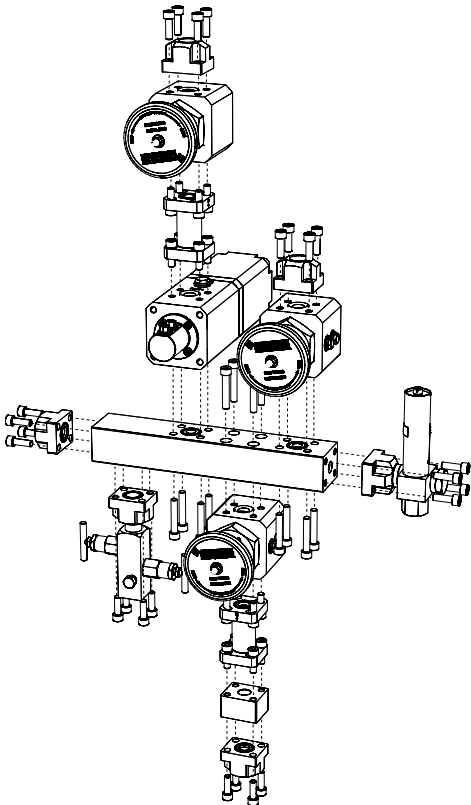
## MANIFOLD CONCEPT:

By utilising the flange connected variants; manual valves, actuated valves, proportional pressure regulators and check valves we are able to deliver a significant number of benefits to our customers.

The “building block” approach we have adopted enables us to provide detailed proposals very quickly, configuring designs to meet exactly our customers’ needs.

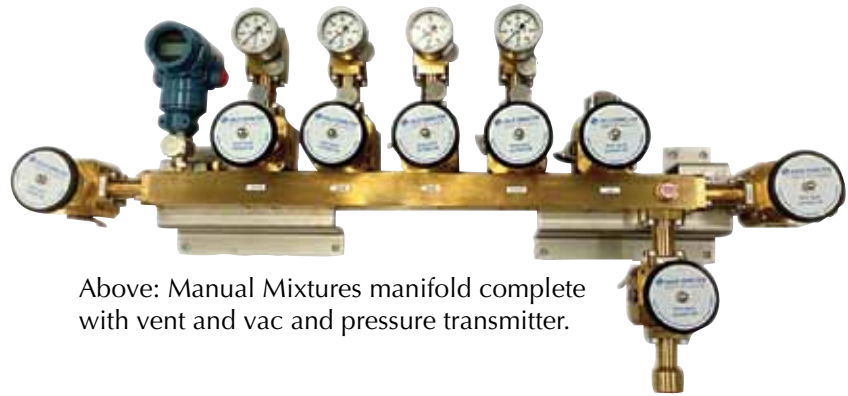
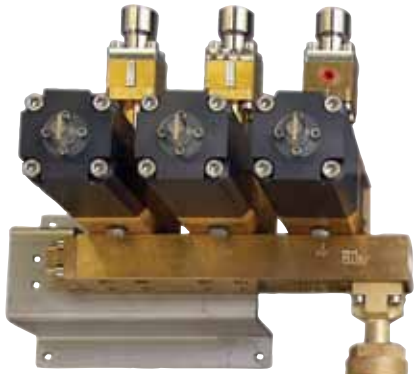
In addition to the flanged mounted products, through simple connector blocks we also integrate pressure relief valves, pressure gauges, filters and pressure transmitters / transducers, delivering a complete manifold ready to install.

Mixtures Filling manifold a combination of Manual Actuated valves complete in pressure relief and pressure connection.



## Features & benefits;

- Typically 50% reduction the required number of fittings and welds.
  - Reduced cost
- Reduced number of potential leak paths.
  - Reduced installation and commissioning time
  - Reduced cost
- Reduced size and therefore simpler mounting frame / panel
  - Reduced space
  - Simpler frame / panel
  - Reduced cost
- Manifolds delivered fully assembled and tested – ready to fit
  - Reduced installation and commissioning time
  - Reduced number of suppliers / less administration
  - Reduced cost
- Systems / manifolds easily upgradable (manual to actuated) without the need for additional rework
  - Quick and easy upgrade
  - Reduced cost



Above: Manual Mixtures manifold complete with vent and vac and pressure transmitter.

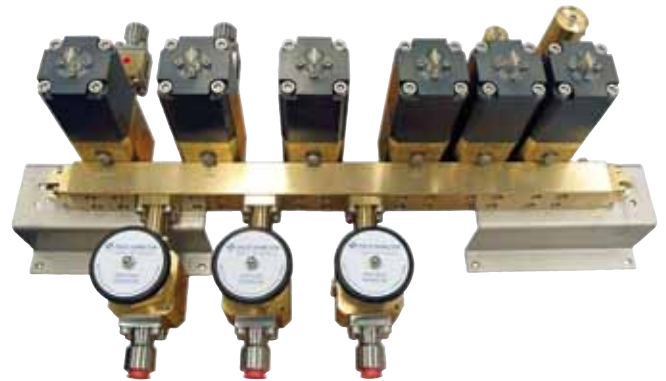


Left: Actuated Mixtures filling manifold, complete with RH11 Proportional Controller to control fill rate with built in vent and vac and pressure relief.

ld with  
al and  
ete with built  
pressure gauge



Right: Nitrogen / Argon mixtures manifold with a combination of manual and actuated valves, dual pressure relief, with built in vent and vac.



TPED certified manual and actuated stainless steel manifold for use with Hydrogen Trailers working at dual pressures of 200 and 500 bar with built in Dome loaded pressure regulator.

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