

# 703 Series Pressure Regulator – Operating and Maintenance Instructions

## GENERAL

The 703 series Pressure Regulator is a, fixed outlet pressure regulator, designed to safely reduce inlet pressure and accurately deliver a factory-set outlet pressure. As the outlet pressure is factory-set, it cannot be changed by the customer.

A wide range of outlet pressures and port options are available.

## PRIOR TO INSTALLATION

All installation tasks should be carried out in a clean area.

It is likely that when new installations are assembled or when process media is being conveyed, that small particles of dirt and debris may lodge on to the valve seat, causing the regulator to malfunction. It is therefore highly recommended that a suitable filter (25 micron or less) be fitted directly upstream of the pressure regulator.

The 703 series pressure regulator does not incorporate any pressure relief function. As a result, it is highly recommended that a suitable pressure relief valve be fitted immediately downstream of the pressure regulator to protect downstream equipment. Care should be taken to ensure any relief function has enough capacity to safely vent the maximum system flow.

Immediately prior to installing a 703 series pressure regulator into a system, check all operating data of the system compares with the details stated on the 703 series regulator data sheet.

Ensure that the fitting connections of the system exactly match the connections of the regulator.

## INSTALLATION

Remove protective dust caps from all ports ensuring ingress of dirt is prevented prior to connecting all fittings. Any debris introduced into the regulator may affect its working and cause incorrect operation.

Ports should be connected correctly with the direction of flow of the system. The direction of flow arrow etched into the side of the regulator clearly shows the direction of flow.

The regulator should be mounted in a way that helps reduce as far as possible any vibrations that may be transmitted through the regulator by the system. Due to its small profile and light weight, it is possible to mount the 703 series regulator on a section of pipework due to its small profile light weight without the requirement for mounting brackets or for the regulator to be supported.

When all connections have been fully tightened, pressure can be introduced to the regulator inlet, the 703 series pressure regulator is naturally open and will allow pressure through to the outlet side until the set pressure of the regulator is reached.

## SERVICING

The predicted service life of a 703 series pressure regulator is 5 years or 150,000 miles. It is highly recommended that a full factory re-fit be carried out on any regulators that have exceeded this service life.

A thorough visual inspection of the regulator should be carried out every 2 years, or 50,000 miles, whichever occurs soonest.

Any service schedule should be individually reviewed by the user on a system-by-system basis and adapted to meet the needs of individual systems.

If a regulator does develop a performance issue or failure during service, it must be disconnected from the system and returned to H2 Technology for a factory refurbishment. Due the nature of construction of this device, servicing in the field is not possible.