

Engineering Data Sheet

Document No:- 003B00775D799 rev 1

Installation, Operation & Maintenance Instructions for
Fig 775 Automatic Air Vent

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Date 16th April 2002

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CE MARKING AND THE PRESSURE EQUIPMENT DIRECTIVE 97/23/EC

This has been implemented in United Kingdom law by the Pressure Equipment Regulations 1999 (SI 1999/2001).

The regulations apply to all piping products with a maximum allowable pressure greater than 0.5 bar. Piping products with a maximum allowable pressure not exceeding 0.5 bar are outside the scope of the Directive. Piping products are categorised in accordance with the maximum working pressure, size and ascending level of hazard, which is dependent on the fluid being transported. Fluids are classified as Group 1, dangerous fluids or Group 2, all other fluids including steam. Categories are SEP (sound engineering practice) and for ascending levels of hazard, I, II, III or IV. All piping products designated as SEP do not bear the CE mark nor require a Declaration of Conformity. Categories I, II, III or IV carry the CE mark and require a Declaration of Conformity (Note- all piping products up to and including 25mm (1") having a maximum allowable pressure greater than 0.5 bar are designated SEP regardless of fluid group.)

PRODUCT LIFE CYCLE

The life of the piping products is dependent on its application, frequency of use and freedom from misuse. Compatibility with the system into which it is installed must be considered. The properties of the fluid being transported such as pressure, temperature and the nature of the fluid must be taken into account to minimise or avoid premature failure or non-operability. A well-designed system will take into consideration all the factors considered in the piping products design, but additionally electrolytic interaction between dissimilar metals in the piping products and the system must be examined. Before commissioning a system, it should be flushed to eliminate debris and chemically cleaned as appropriate to eliminate contamination, all of which will prolong the life of the piping products.

LIMITS OF USE

The products to which these installation, operation and maintenance instructions apply have been categorised in accordance with the Pressure Equipment Directive.

The fluid to be transported is limited to Group 2 liquids i.e. non-hazardous and on no account must these test points be used on any Group 2 gases, Group 1 liquids or Group 1 gases.

Fig 775 automatic air vents in sizes up to 1" are categorised as SEP and do not require the CE mark

Operating pressures and temperatures

PN	Non-shock pressure at temperature range	Non-shock pressure at max. temperature
-	10 bar from -10°C to 120°C	10 bar at 120°C

Not suitable for fatigue loading, creep conditions, fire testing, fire hazard environment, corrosive or erosive service, transporting fluids with abrasive solids.

PRESSURE/TEMPERATURE RATING

These air vents are suitable for use up to 10 bar pressure rating. They must be installed in a piping system where the normal pressure and temperature do not exceed the above ratings.

The maximum allowable pressure is for non-shock conditions. Water hammer and impact for example, should be avoided.

If the limits of use specified in these instructions are exceeded or if the valve is used on applications for which it was not designed, a potential hazard could result.

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LAYOUT AND SITING

Care should be taken regarding orientation of the automatic air vent to enable full efficiency to expel air from the system.

It should be considered at the design stage where air vents will be located to give access for inspection maintenance and repair.

INSTALLATION

These air vents are threaded BSP parallel (external) and require a seal washer to ensure leak tightness.

Air vents are precision manufactured items and as such, should not be subjected to misuse such as careless handling, allowing dirt to enter, lack of system cleaning before operation and excessive force during assembly.

All special packaging material must be removed.

Fig 775 air vents must be fitted vertically, on a riser or fitted into horizontal pipe.

OPERATING

The Fig 775 air vents are self-acting. However, an anti-vacuum cap is fitted which needs opening anti-clockwise to allow the release of air automatically.

Note:- System pressure must be below 2.5 bar to allow the air to discharge automatically.

MAINTENANCE

The Fig 775 air vent is maintenance free.

However, the system should be at zero pressure and ambient temperature prior to any inspection.

Maintenance Engineers & Operators are reminded to use correct fitting tools and equipment.
A full risk assessment and methodology statement must be compiled prior to any maintenance.

The risk assessment must take into account the possibility of the limits of use being exceeded whereby a potential hazard could result.

A maintenance programme should therefore include checks on the development of unforeseen conditions, which could lead to failure.

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