

# OPERATING AND MAINTENANCE INSTRUCTIONS

## TYPE W FIRE RATED VALVES



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**WARNING :** Please note that the fire damper closes with considerable force and should never be handled by personnel unfamiliar with its operation. The egg-crate grille must be in position at all times except for fire damper re-setting.

**Scope: Models 100W, 100WL and 200W Fire-Rated Valves**

### General Description

The unit comprises an Aercon Type W Air Pressure Control Valve close coupled to an Actionair Type 101 Fire Shield fire damper with a clip-fix egg-crate grille on outlet and the whole encased in a two hour fire resistant casing fabricated in either carbon steel with white Polyester powder coated finish or alternatively in all Grade 304 stainless steel.

Fire Rating : Two hours to BS 476 Part 22:1987.

### Installation

Form an aperture to suit the dimensions of the unit, allowing minimum clearance for sliding in the unit. Ensure that the unit is level in both horizontal planes and then fix to the wall using the loose angle frames provided. These are pre-drilled and should be pop-riveted to the unit's casing in the appropriate position - to suit your application.

Please ensure when drilling the casing that the drill bit does not penetrate more than 1/2" (12 mm). Make good round the unit with fire resisting material of sufficient fire integrity to match the wall.

Fire-rated units are delivered with the fire damper in the closed position and it is necessary to remove the outlet grille (pull off using gentle finger pressure) and set the fire damper prior to operation. This should only be carried out by a competent fitter and the outlet grille should be immediately replaced.

Units may be additionally provided with electro-magnetic actuation of the fire damper and where specified, the electro-magnet should be mounted to the wall or ceiling, adjacent to the unit, so as to ensure that not more than two bends of 100 mm minimum radius occur in its operating cable.

Ensure that the electro-magnet is connected to the appropriate electrical supply i.e. 240 V AC or 24 V AC or 24V DC prior to applying power to the unit. See Actionair instructions provided with the unit for wiring details. Electro-magnets comply with EMC Directive 89/336/EEC.

Where the stabiliser is installed in a location accessible to the public consideration should be given to fitting inlet grilles to avoid trapping/cutting of fingers by the blade(s).

### product ranges



Air pressure stabilisers for use in hospitals.



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### TYPE W FIRE RATED VALVES *continued*

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#### Operation

Fire rated units are Works pre-set for operating pressure prior to despatch and will not normally require on-site adjustment. Should the pressure setting need to be changed consult the Aercon TypeW Valve Operating and Maintenance Instructions. It is recommended that the fire damper be firmly wedged open before attempting to slacken the lock nut on the low pressure side of the valve.

#### Maintenance

**Maintenance should only be carried out by personnel familiar with this equipment.**

For valve maintenance see Aercon TypeW Valve Operating and Maintenance Instructions. The fire damper is maintenance free but it's operation should be checked at least annually by compressing the brass finger pins situated on each side of the operating mechanism cassette.

These pins will be seen, upon opening the valve blade, in the centre of the fire damper at the top. Using two pieces of wood of approximately 300 mm long and 20 mm square in section (not provided) press in both brass pins simultaneously. The fire damper curtain should fall with considerable force and effectively seal the outlet.

**Do not put your hands into the fire damper area whilst carrying out this test.**

Remove the grille and re-set the fire damper after the test and immediately replace the grille.

#### Problems?

Aercon valves and stabilisers are covered by a twelve month "return to factory" warranty against faulty workmanship and materials.

In the event of any malfunction or difficulty in obtaining the required pressure setting of a stabiliser please contact the Aercon Division of the Power Utilities Group for assistance.

Should you experience problems with the overall performance of an Operating Theatre suite please request a copy of our Trouble Shooting Guide for Type W and LF valves.

An on-site commissioning/re-setting/repair service is available in the U.K. or alternatively stabilisers may be returned, carriage paid, to the Works for these services.

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