

OPERATING AND MAINTENANCE INSTRUCTIONS

TYPE T



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Please read these instructions before installing or attempting adjustment of this Aercon valve which is a sensitive instrument that has been tested accurately and pre-set to pressure prior to despatch to you.

Scope: Models : 200T, 400T, 600T & 800T

General Description

The Type T Air Pressure Control Valve comprise one, two or three finely balanced stainless steel blade(s) pivoting on sealed for life ball bearings with centrally located balance weight assemblies, to give operating pressures of either 25 or 55Pa with 5 Pascals of adjustment either way.

The blade(s) is fully contained within the valve housing which is fabricated in aluminium with grey Polyester coating and is pre-drilled for screw fixing direct to the wall.

The valve assembly can be supplied with a mating slip -over rear flange section which is also pre-drilled for screw fixing.

Installation

It is recommended that the valve should only be installed when all building, decorating and cleaning-up operations are complete.

The valve housing should be inserted from the room at higher pressure carefully levelled in both planes and then fixed to the wall with No. 8 woodscrews.

The rear flange (where required) should now be slipped over the valve housing and similarly fixed to the wall. It is recommended that the gap between the housing and the rear flange be sealed with siliconmastic.

Important - DO NOT move or lift the valve by means of the blade as you may easily damage it.

Operation

Aercon Type T valves are self actuating, sensing a pre-set pressure and require no external power source. They are not volume dependant provided that the volume is at least 10% of the unit's rated maximum.

Ensure that the inlet and outlet of the valve are free from any obstructions.

Routine Maintenance and Cleaning

Valves only require minimal maintenance, being designed and engineered for a long trouble free life.

Under no circumstances should the valve be immersed in any fluid nor should it be autoclaved.

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Valves for the control of pressure within gas fire suppression systems.



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Routine Maintenance and Cleaning *continued*

An annual inspection and test is recommended, covering the following points:-

- Ensure that the blade moves freely within the housing by applying light finger pressure to the bottom edge of the blade when viewed from the high pressure side. Any "stickiness" in the movement of the blade should be investigated and rectified. (This may require the valve to be returned to the Works for overhaul).
- Examine the blade stops and renew if showing signs of deterioration.
- The valve operating pressure should be checked using a calibrated manometer and if necessary reset as described below.
- The valve should be regularly cleaned using a vacuum cleaner to remove any dust or by wiping down with a soft cloth moistened with dilute disinfectant solution.

Adjustment of pressure setting

Do not attempt adjustment of the valve until you have slackened the locknut on the low pressure side of the blade assembly.

Do not exert undue force on the blade assembly during adjustment or pressure setting.

Valves are supplied pre-set to pressure with the M5 locknut tightened to ensure retention of the setting in transit and to prevent unauthorised alteration.

Using an 8mm.A/F spanner, slacken the locknut sufficiently to allow the end caps to be rotated without undue force and with no end float.

Turn the end cap on the high pressure side of the valve (denoted by the INLET TOP transfer) anticlockwise to increase the pressure setting or clockwise to decrease the setting. Ensure that the end cap on the low pressure side of the valve is not permitted to move whilst the high pressure side end cap is being adjusted.

The end cap on the low pressure (outlet) side of the valve controls the sensitivity of the valve and on it will be seen the end of the rotation pin which is eccentric to the centre pin.

This pin will be around the three o'clock position when the valve is set for low pressures and around the six o'clock position when the valve is set for high pressures. The actual position being determined by practical test. Move this control only a few degrees at a time and check the pressure and valve response after every adjustment.

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Adjustment of pressure setting *continued*

Following adjustment the locknut should be re-tightened sufficiently to prevent the end caps being rotated and the pressure re-checked to ensure that it has not been altered during the tightening process.

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.

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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