



Type Z

Operating & Maintenance Instructions

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

- **Scope : Aercon Type Z**
- **General description :**

The *Aercon*® Type Z Air Pressure Control Valve comprises two finely balanced carbon steel blades pivoting on sealed for life ball bearings with a common balance weight assembly mounted in the end of the casing to give operating pressures from 100 Pa to 250 Pa.

The blades are fully contained within the valve housing which is fabricated in carbon steel and is pre-drilled for screw fixing direct to the wall. The whole unit is finished in Goosewing grey Polyester powder coating

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

- **Installation :**

Important : DO NOT MOVE THE VALVE BY MEANS OF THE BLADES AS YOU MAY EASILY DAMAGE THEM.

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 silicon mastic.

- **Operation :**

Aercon Type Z 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 :**

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

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

1. Ensure that the blades move freely within the housing by applying 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).
2. Examine the blade stops and renew if showing signs of deterioration.
3. The valve operating pressure should be checked using a calibrated manometer and if necessary reset as described below.
4. The valve should be regularly cleaned using a vacuum cleaner to remove any dust or by wiping down with a soft cloth.

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

- **Adjustment of pressure setting :**

Remove side panel from balance weight end of valve (use a 10 mm A/F spanner)
DO NOT exert undue force on the blades at any time as it may cause distortion.

1. Valves are supplied Works set to pressure and locked to ensure retention of the setting in transit and to prevent unauthorised alteration.
2. To adjust the pressure, slacken the M6 locknuts and M6 grub screws to allow the balance weight to be rotated without undue force. Turn the balance weight anticlockwise to decrease the pressure setting or clockwise to increase the setting.
3. Following adjustment the locknuts and grub screws should be re-tightened sufficiently to prevent the balance weight being rotated and the pressure re-checked to ensure that it has not been altered during the tightening process.
4. Refit the side panel to prevent unauthorised adjustment and ingress of dirt.

- **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 valve or stabiliser please contact the **Aercon**[®] department of Power Utilities Limited 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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AERCON[®]

Air Pressure Control Valves

Manufactured in England by
Power Utilities Limited



Established 1934