



Type X

Operating & Maintenance Instructions

- Scope : Models 1X - 5X in Marks D, H/C, H/W, U and S/T Patterns.
- General Description :

Aercon® Type X valves are available with Carbon steel bodies hot-dip galvanised to BS 729 1971 as standard or with a variety of other finishes e.g. Polyester powder coating or epoxy paint or with self finish, all Stainless Steel bodies in either Grades 304 or 316.

All utilise a single blade pivoting on sealed for life ball bearings and sealing on resilient seal strips. The units have an adjustable balance weight assembly (standard pressure range 5 - 70 Pa with higher ranges available to order) and Marks D, H/C, H/W & U are provided with a bird mesh on their outlets.

Egg-crate inlet grilles are available as an option on all models.

- Operation :

The valves should be mounted as follows :-

Marks D & U	Main axis vertical in both planes
Marks H/C & H/W	Main axis horizontal in both planes
Mark S/T	Main axis either vertical or horizontal as per the requirements of your order

Ensure that both the inlet and outlet of the valve is unobstructed at all times and that they are protected from the ingress of rain, snow, leaves etc.

Type X valves are self actuating, sensing a pre-set pressure, and require no external power source

- Maintenance :

Aercon® valves are designed for a very long service life and require only minimal maintenance.

1. An annual inspection and test is recommended, covering the following points -
2. Ensure that the valve body is free from debris, e.g. leaves, that may obstruct the blade and/or airflow.
Open the blade by hand to check for free movement and smoothness of bearing operation. If there is any apparent "stickiness" the cause should be investigated (see 1 above) and if necessary the unit returned to the Works for repair.
3. Visually inspect the blade seal strips for deterioration and replace if necessary.
4. Check the pressure setting using a calibrated manometer and re-set if required as described below.

- Adjustment of Operating Pressure :

This is carried out from the high pressure side of the valve and requires the use of an accurate manometer connected either across the valve itself or between rooms where the valve is fitted or room to atmosphere, as appropriate. See attached Drawing.

1. Release the grub-screw in the balance weight (size M6), using an Allen key.
2. Slacken the balance weight clamping nut (outermost on the shaft) using a suitable spanner

Spanner sizes are	1X	-	10 mm A/F
	2X	-	13 mm A/F
	3X	-	17 mm A/F
	4X	-	19 mm A/F
	5X	-	19 mm A/F

3) Rotate the balance weight a few degrees. Re-tighten the clamping nut ensuring no movement of the backing nut (innermost nut on the shaft) and re-check the pressure. If the pressure is going against the desired direction release the clamping nut and rotate the balance weight in the opposite direction. When the desired pressure is reached, fully tighten the clamping nut and grub-screw, again ensuring that there is no movement of the backing nut.
Re-check the pressure.

- Problems?

Aercon[®] valves 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 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 valves may be returned, carriage paid, to the Works for these services.

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The logo for Aercon, featuring the word "AERCON" in a bold, stylized, italicized font with a registered trademark symbol.

Air Pressure Control Valves

Manufactured in England by
Power Utilities Limited



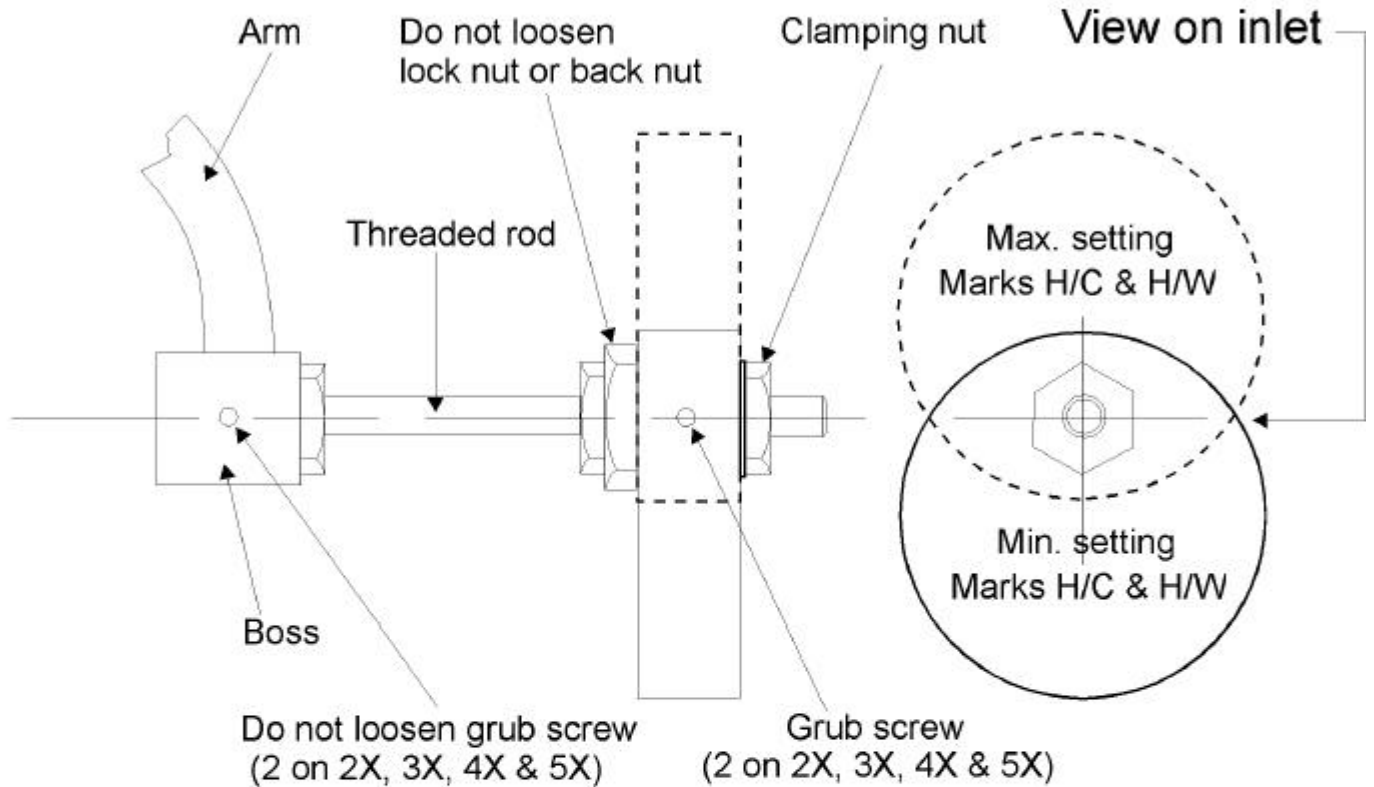
Established 1934

AERCON®

Type X

Adjustment of operating pressure

Marks H/C and H/W



Marks D and U

