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## **INSTALLATION, OPERATING & MAINTENANCE INSTRUCTIONS FOR SIZES V, W, X, Y and Z TRANSFORMER BREATHERS**

### **Description**

The V, W, X, Y and Z Transformer Breathers consist of a top casting, a refillable desiccant container and a bottom casting assembly which houses the inlet and outlet relief valves. The three items are clamped together by four-threaded tie rods.

### **Installation**

The Transformer Breather is supplied with a sealing plug in the top casting. This plug is either screwed or pressed into position to prevent any water vapor ingress while in storage, it should be removed immediately prior to the top casting being fitted to the air vent pipe of the equipment. The top castings are flanged. Additionally, the size V, W & X top castings have a threaded  $\frac{3}{4}$  inch BSPP (will mate to a  $\frac{3}{4}$ -14 NPSM) female pipe connection, and the size Y & Z have a 1" BSPP (will mate to a 1-11 $\frac{1}{2}$ " NPSM) female pipe connection.

The breather is now ready to use.

### **Operation**

Periodic inspection should be carried out to monitor the condition of the desiccant charge. The breathers are charged with blue indicating silica gel desiccant. This material changes in color from blue to pink as it becomes saturated with water vapor. When the color change reaches the indicator line on the label on the desiccant container, it should be re-charged with fresh blue indicating silica gel.

### **Maintenance**

The only maintenance necessary to keep the breather in a fully active condition is the replacement of the spent desiccant as follows:

1. Loosen the nuts and remove the two tie rods which are fitted in the slots in the top and bottom castings. Then, loosen and remove the wing nuts on the fixed tie rods so that the top casting can be removed, thereby exposing the top of the desiccant container.
2. Remove the perforated cover from the top of the desiccant container and empty the spent desiccant from the container. This material may normally be disposed of in a landfill site, but always check your local environmental requirements.
3. Fill the container with active blue indicating silica gel (refills of the correct grade and quantity are available from AGM Container Controls, Inc.). Lightly tap the container to settle the desiccant and fill as necessary.



4. Replace the perforated cover and refit the desiccant container between the top and bottom castings ensuring that it is correctly fitted between the sealing gaskets.
5. Install the flat washers, lock washers, and wing nuts onto the fixed tie rods. Screw the wing nuts down until finger-tight. Install the remaining 2 tie rods into the matching slots in the top and bottom castings. Then tighten all 4 nuts equally, being careful not to over tighten.

### **DESICCANT REFILLS**

Refill Part Numbers:

920007-Blue Indicating Silica Gel 1-3 mm bead

920013-Orange Indicating Silica Gel 2-5 mm bead

For users who have a regular refill requirement, bulk quantities of blue or orange indicating silica gel are available for purchase. Please contact AGM's Desiccant Sales Department for pricing.

It must be emphasized, however, that careful housekeeping is necessary when dispensing desiccant from bulk containers. Ensure that the container is open for the minimum time necessary to remove the required quantity and that it is properly sealed immediately after use.

For technical questions, please contact AGM's Engineering Department.

For Sales and Quoting, please contact AGM's Desiccant Sales Department.