



Mounting flange conforms to BS10 Table D.

Alternative pipe connections:
Size 'V, W & X': 3/4" Female Pipe Thread.
Size 'Y & Z': 1" Female Pipe Thread.

All threads conform to BS21 and ISO7-1

Desiccant type: Envirogel – self indicating beaded silica gel.

Part No	Size	Dia 'A'	Dimn 'B'	Dimn 'C'	Weight of Desiccant
BL/D6290/01	V	255mm	375mm	1"B.S.T.D.	3.6 Kg
BL/D6290/02	W	255mm	555mm	1"B.S.T.D.	7.2 Kg
BL/D6290/03	X	255mm	735mm	1"B.S.T.D.	10.8 Kg
BL/D6290/04	Y	355mm	485mm	1"B.S.T.D.	14.4 Kg
BL/D6290/05	Z	355mm	645mm	1"B.S.T.D.	21.6 Kg

Selection Guide

The following data should be used for the basic selection of a transformer breather.

In order to assess the size of the breather the air volume above the oil in the conservator tank is the most important factor. The quantity of oil and the transformer rating is of secondary importance.

The daily breathing rate is based on the assumption that there are two temperature drops of 8°C per 24 hours. The breathing volume change which occurs during the pump start-up is not taken into consideration. Double & triple units are available upon request.

Size	Max. Oil Contents (Litres)	Approx. Transformer Rating (MVA)	Max. Air Space Volume (Litres)	Approx. Daily Breathing Rate (Litres)	Max. Air Volume before Recharge (Litres)	Approx. Charge Life (Days)
V	11350	9	2400	140	45450	320
W	22700	30	4800	280	90900	320
X	34050	60	7250	420	136500	320
Y	45450	100	9685	570	181800	320
Z	68150	180	14500	840	272700	320
XX	68100	180	14500	840	272700	320
YY	90900	240	19300	1140	363500	320
ZZ	136300	500	29000	1680	545400	320
ZZZ	204450	750	38750	2280	818100	320



Installation

The breather is supplied with a sealing plug in the top casting. This plug is either screwed or pressed into position to prevent any water vapour ingress whilst in store. This plug should be removed immediately prior to the unit being fitted to the air vent pipe of the transformer reservoir tank. The units can be connected to the vent pipe either by flange or pipe thread connection. Mounting brackets on top casting provide additional support for the breather.

Full installation and maintenance instructions are supplied with each Transformer Breather.

Operation

Periodic inspection should be carried out to monitor the condition of the desiccant charge. The breathers are filled with beaded Envirogel desiccant. This material changes colour from orange to green as it becomes saturated with water vapour. When the colour change reaches the indicator line on the desiccant container it should be recharged with fresh desiccant.

Maintenance

The only maintenance necessary to keep the breather in a fully active condition is the replacement of the spent desiccant as detailed below.

1. Loosen the nuts and remove the two tie rods, which are fitted in the slots in the top and bottom castings. Loosen the nuts on the fixed tie rods until the desiccant container can be removed from between the top and bottom castings.
2. Remove the top perforated cover and empty the spent desiccant from the container. This material may be disposed of in a normal landfill site.
3. Fill the container with active orange desiccant, lightly tap the container to settle the desiccant and top up if necessary. Desiccant refills are available from Brownell.
4. Replace the perforated cover and refit the desiccant container between the top and bottom casting ensuring that it is correctly fitted between the sealing gaskets.
5. Refit the two tie rods and tighten all the nuts, being careful not to over tighten.

NOTE: If it is necessary to replace the complete desiccant container instead of recharging the existing unit, ensure that the self-adhesive aluminium foil vapour barriers are removed from the top and bottom of the container before installation. The strings which are attached to the foil discs will split the discs when pulled, to allow for easier removal.

Desiccant Refills

Envirogel refills - Part No. BL/D6331 offers capacities ranging from 0.5 to 50Kg.

This data is supplied for information purposes only and is subject to change without prior notification

Please contact Brownell Limited for any further information or guidance required.

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Humidity Control and Moisture Protection

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