

# High Voltage Bushing Well

## Description

1.TGZ-15/200A bushing well, mainly used for current 200A gas insulated switch gear, ring main unit, dry transformer and other equipments. Installed on the high voltage side of the device connect to the switch, or connect to transformer high voltage winding.

2. Can use a single-through bushing insert, feed thru insert or a single-way T arrester connected to the relevant equipment through the casing.

3.The interface complies with the IEEE386 standard

Warning:

1. All equipments connected to the bushing well must be powered off during installation or maintenance.

2. Check the appearance of the bushing well before installation, and there should be no defects such as breakage, cracks, etc.



- High Voltage Bushing Well
- Nitrile Gasket
- Dust Cap
- Steel Clamp (Zinc Electroplating with Yellow Chromate)

## Specifications

Description	Units	Ratings
Voltage Class	kV	15 kV
Voltage Rating	kV	8.3/14.4 kV
Rated Current	kV	200 A
AC Withstand Voltage 1 min	kV	42 kV
Partial Discharge	kV	15 kV, ≤10 pC
BIL	kV	95 kV
Leakage Rate	A	< 1× 10 <sup>-10</sup> Pa·m <sup>3</sup> /s

## FEATURES

- Insulated body is molded of a polyester thermoset compound designed for excellent electrical and mechanical properties.
- The ground shield is oil resistant.
- The connecting stud is a copper alloy molded into the body to provide a high strength leak free bond.
- Gasket location and compression are controlled at the O.D. by the molded in gasket retaining ring.
- Dimensions comply with ANSI/IEEE 386 Std. for Separable Insulated Connectors.
- Uses tank mounting hole of 2.562 inches diameter.
- Recommended torque values: External clamp is 80 inch lbs, Internal connection is 80 inch-lbs.
- Nitrile gasket (9U09AAW274)
- The removable insert is tin plated for corrosion resistance and ease of removal. Use a 5/32 allen wrench to replace the removable insert, insert non-threaded lead-end first and torque to 100 inch-lbs. Order removable inserts separately

## Installation

Step 1

1. Open a diameter 65mm hole on the side of the equipment installation panel, and debur the edge of the hole.

2. Averagely weld 3 lengths of M10×40mm mounting screws on thep117mm circle centered on the center of the hole center. (Fig 1)

3. Make sure that the seal is not damaged and place the seal into the groove of the bushing well.

4. Push the bushing well horizontally into the hole of the equipment, and press on the triangular plate and fix the three mounting holes into the corresponding equipment welding screws. Put the flat washer and the spring washer into the nut until the spring washer is flat and the torque is about 30N.m. (Fig 2)

Step 2

Clean and lubricate the inner surface of the bushing well and install a proper shielded separable connector to the front end of the bushing well.

