OEM Equipment
Catalog Data
**CA800013EN**

Effective July 2015
Supersedes 800-35 April 2004

COOPER POWER
SERIES

# 200 A 15/25 kV class epoxy bushing well (2.25" tank hole and fixed stud only)

## General

Eaton's Cooper Power™ series 200 A 15/25 kV Class bushing well meets the full requirements of the latest revision of IEEE Std 386™ standard – separable insulated connector systems.

It is designed for the termination of primary winding leads at the front plate of fluid-filled apparatus rated at either 8.3/14.4 kV or 15.2/26.3 kV.

The bushing well is externally clamped for sidewall mounting on single- or three-phase transformers filled with transformer oil, Envirotemp™ FR3™ fluid or an approved equivalent. It fits a 2.25 inch (57 mm) hole and mates with all bushing inserts meeting applicable IEEE® Standards. The knurled copper stud with rolled threads provides excellent conductivity.

## Installation

The bushing well is installed in the front plate of oil-filled apparatus with a gasket on the internal shank of the well. A bushing insert is installed in the well only while the apparatus is de-energized. Refer to Installation Instruction Sheet S800-35-2 for details.

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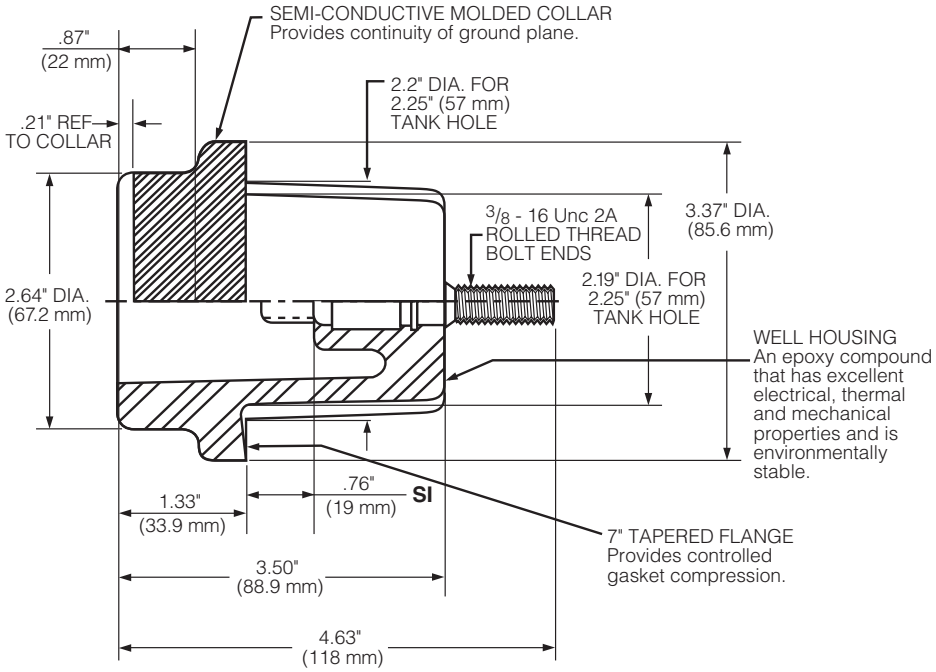



**Figure 1. 200 A 15 and 25 kV Class Bushing Well.**

**Note:** Dimensions given are for reference only.

## Production tests

Tests are conducted in accordance with IEEE Std 386™ standard.

- ac 60 Hz 1 Minute Withstand
  - 40 kV
- Minimum Partial Discharge Extinction Value
  - 19 kV

Tests are conducted in accordance with Eaton requirements.

- Physical Inspection
- Periodic Dissection
- Periodic Fluoroscopic Analysis (X-ray)

**Table 1. Voltage Ratings and Characteristics**

| Description | kV |
|---|---|
| Standard Voltage Class | 25 |
| Maximum Rating Phase-to-Phase | 26.3 |
| Maximum Rating Phase-to-Ground | 15.2 |
| ac 60 Hz 1 Minute Withstand | 40 |
| dc 15 Minute Withstand | 78 |
| BIL and Full Wave Crest | 125 |
| Minimum Partial Discharge Extinction Value | 19 |

Voltage ratings and characteristics are in accordance with IEEE Std 386™ standard.

**Table 2. Current Ratings and Characteristics**

| Description | Amperes |
|---|---|
| Continuous | 200 A rms |
| Short Time | 10,000 A rms symmetrical for 0.17 s |
| | 3,500 A rms symmetrical for 3.0 s |

Current ratings and characteristics are in accordance with IEEE Std 386™ standard.

## Ordering information

To order a 15/25 kV Class bushing well, specify bushing well, gasket and clamp from Table 3.

**Table 3. Bushing Well, Clamps and Gasket**

| Description | Catalog Number | Figure |
|---|---|---|
| 2.2 inch Diameter Well | 2603973B01 | 1 |
| 4-Stud Clamp (3.25 in.) | 2606821A01 | 4 |
| 4-Stud Clamp (3.25 in) with Two Bail Tabs | 2606823A02 | 4 |
| 4-Stud Clamp (3.25 in.) with Four Bail Tabs | 2606823A04 | 4 |
| 4-Stud Clamp (2.75 in.) | 2606722A01 | 5 |
| 4-Stud Clamp (2.75 in.) with Two Bail Tabs | 2606822A02 | 5 |
| 3-Stud Clamp with Flange | 2085399A01 | 3 |
| 3-Stud Clamp with Flange (Stainless Steel) | 2085399A02 | 3 |
| 3-Stud Clamp | 2026152A51 | 2 |
| Bushing Well Shipping Cap | 2638640C01 | |
| Gasket for 2.2 inch Diameter Well | 0537980C01 | 1 |

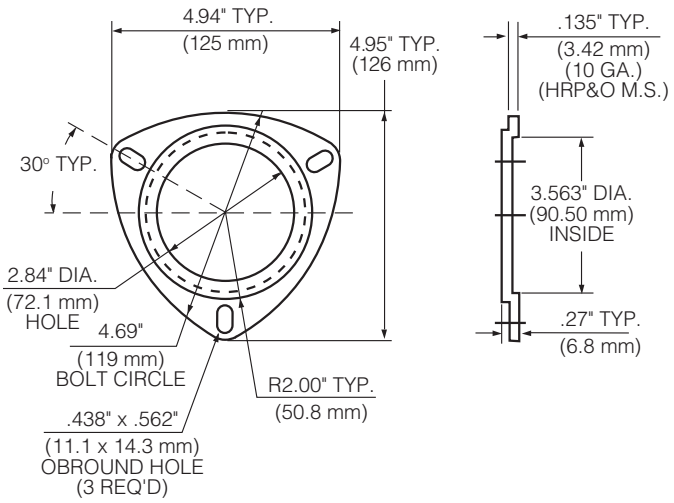



**Figure 2. 3-Stud Clamp.**

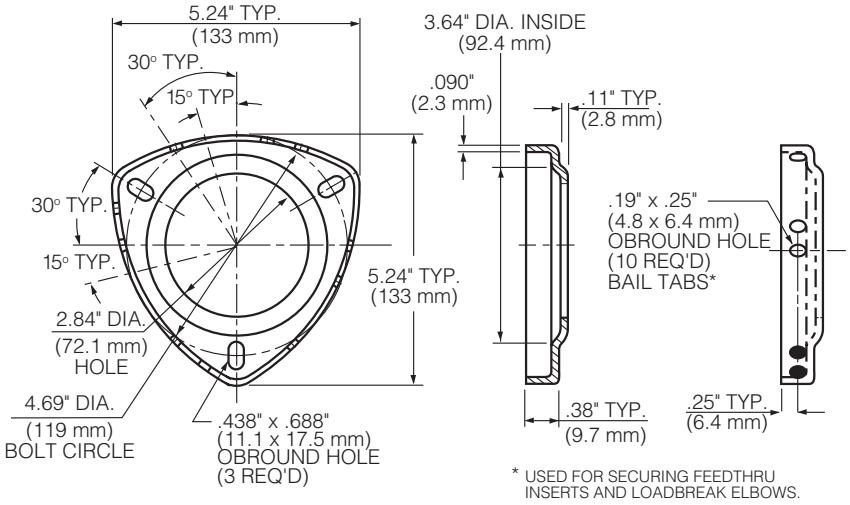



**Figure 3. 3-Stud Clamp with flange.**

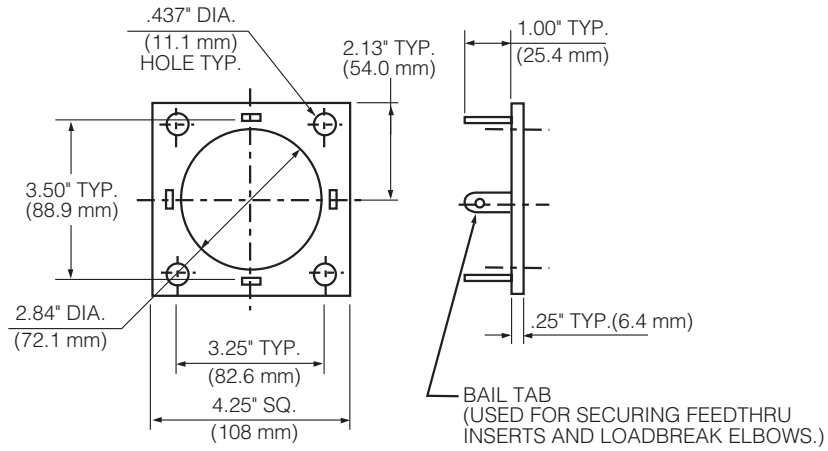



**Figure 4. 4-Stud, 3.25 inch Clamp.**

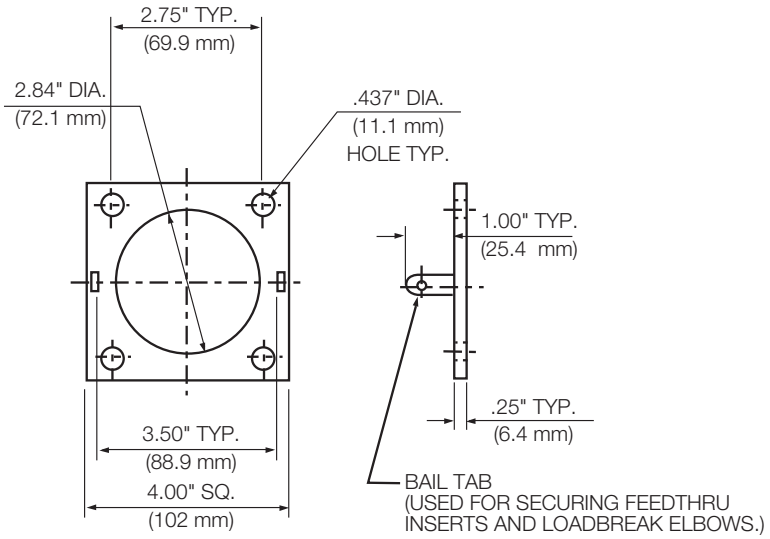
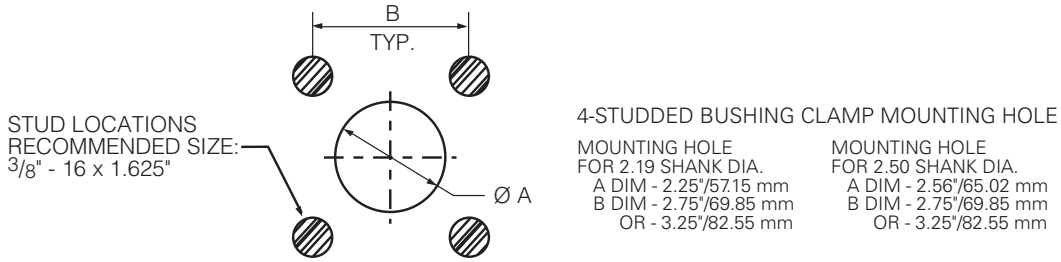



**Figure 5. 4-Stud, 2.75 inch Clamp.**

**Note:** Dimensions given are for reference only.



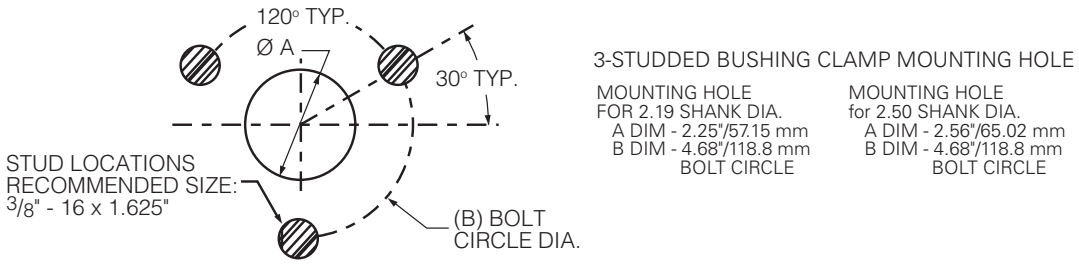




**Figure 6. Recommended tank wall dimensions.**

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