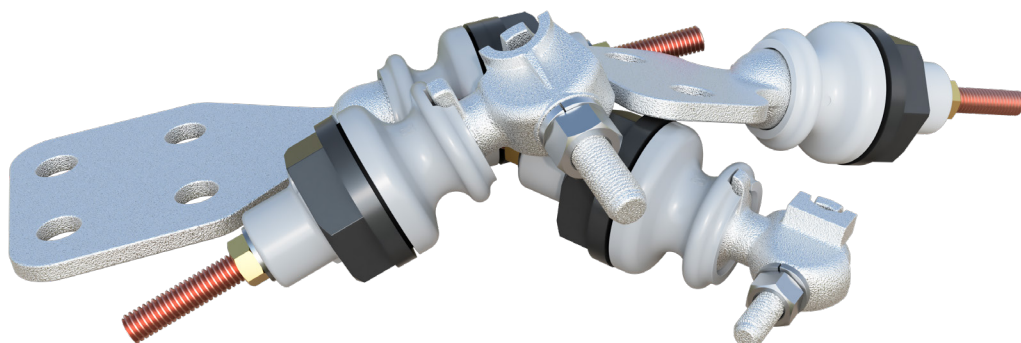


# Low Voltage Pole Bushing 1.2 kV Class 30 kV BIL (10/50 kVA)



ECI, ERMCO Components Inc.  
1607 Industrial Road  
Greeneville, TN 37745  
Phone: (423) 638-2302  
Toll Free: (877) 267-1855  
Fax (423) 636-6492



## Design Advantages

### Bushing Body

- Thermoplastic glass reinforced for strength, temperature rating, UV stability, and service life.

### Mounting Nut

- Thermoplastic glass reinforced material

### Gaskets

- Buna-N material

### Casting

- Tin-plated silicon bronze
- Specially designed for additional strength

## BEYOND THE STANDARD

The secondary bushing is designed for reliability and service.

- Our bushing is molded using a highly ridge thermoplastic glass-filled material, which gives it superior mechanical strength, dielectric strength, temperature stability, UV stability, and weatherability.
- Our mounting nut has *2 full thread engagement* for maximum use of the installation torque.
- A *fully retained gasket* controls gasket compression and protects the gasket from UV exposure.

### Accelerated Aging Testing

- UV aging for 1000 hours followed by leak test and 60Hz dry withstand.
- Thermocycle test (10 cycles) followed by leak test and dry withstand.

### Application

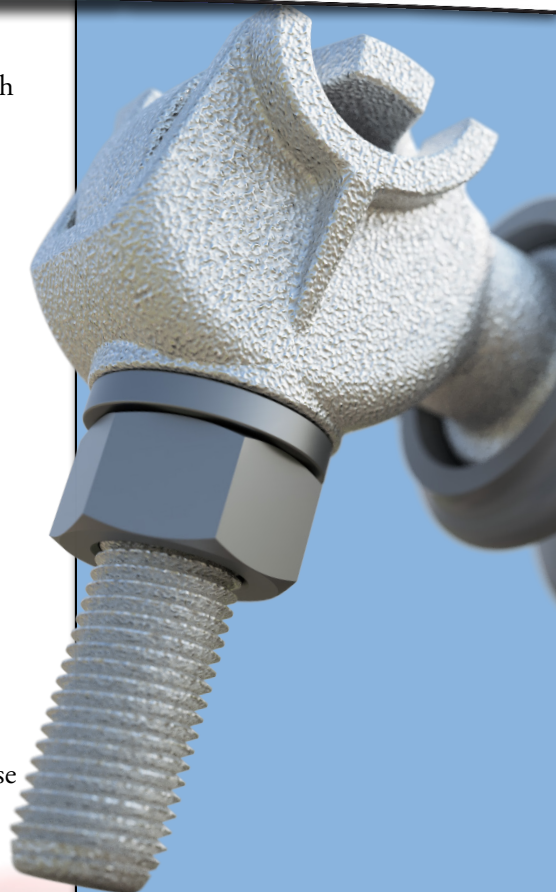
- 5-50 kVA  
120-240 V, 240-480 V, 277 V
- Maximum Continuous Line to Ground  
600 Volts RMS
- 1.2 kV Class  
30 kV BIL

### Mechanical Testing

- Cantilever strength test
- Cantilever gasket leak test
- Torque test mounting nut
- Torque test copper stud
- Torque test eyebolt

### Dielectric Testing

- Hi-Pot Testing in Air
- Continuous current temperature rise
- 60Hz dry withstand 10kV - 1 min
- 60Hz dry flashover
- 60Hz wet withstand 6kV - 1 min
- 60Hz wet flashover
- Impulse Withstand = 30 kV Full Wave (+3/-3 shots)



For more information about the  
Secondary Bushing, contact your  
Ermco Components representative or call  
(877) 267-1855

Ordering Information and Details

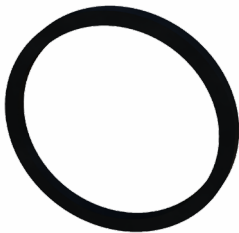
| Bushings with Mounting Nut and Gasket                                             |        |             |               |               |                                        |
|-----------------------------------------------------------------------------------|--------|-------------|---------------|---------------|----------------------------------------|
| Terminal - Brass casting alloy<br>Eyebolt - Bronze casting alloy<br>Stud - Copper |        |             |               |               |                                        |
| Catalog Number                                                                    | Rating |             | Thread Size   |               | For more information see pages 3 and 4 |
|                                                                                   | AMP    | Typical KVA | Eyebolt       | Stud          |                                        |
| 9U10LPB010                                                                        | 63     | 10/15       | 3⁄8-16 UNC-2A | 3⁄8-16 UNC-2A |                                        |
| 9U10LPB025                                                                        | 104    | 25          | 1⁄2-13 UNC-2A | 3⁄8-16 UNC-2A |                                        |
| 9U10LPB050                                                                        | 208    | 50          | 1⁄2-13 UNC-2A | 1⁄2-13 UNC-2A |                                        |

| Bushings with Mounting Nut and Gasket        |        |             |              |               |                                        |
|----------------------------------------------|--------|-------------|--------------|---------------|----------------------------------------|
| Spade - Brass casting alloy<br>Stud - Copper |        |             |              |               |                                        |
| Catalog Number                               | Rating |             | Spade Design | Stud Thread   | For more information see pages 5 and 6 |
|                                              | AMP    | Typical KVA |              |               |                                        |
| 9U10SPB201                                   | 104    | 25          | 2 Hole Spade | 3⁄8-16 UNC-2A |                                        |
| 9U10SPB202                                   | 208    | 50          | 2 Hole Spade | 1⁄2-13 UNC-2A |                                        |
| 9U10SPB401                                   | 104    | 25          | 4 Hole Spade | 3⁄8-16 UNC-2A |                                        |
| 9U10SPB402                                   | 208    | 50          | 4 Hole Spade | 1⁄2-13 UNC-2A |                                        |

| Replacement Parts |                          |
|-------------------|--------------------------|
| Catalog Number    | Description              |
| 9U10PRT001        | Mounting Gasket          |
| 9U10PRT002        | Mounting Nut             |
| 9U10PRT003        | 3⁄8-16 Brass Hex Jam Nut |
| 9U10PRT004        | 1⁄2-13 Brass Hex Jam Nut |



Mounting Nut



Mounting Gasket



Brass Hex Jam Nut

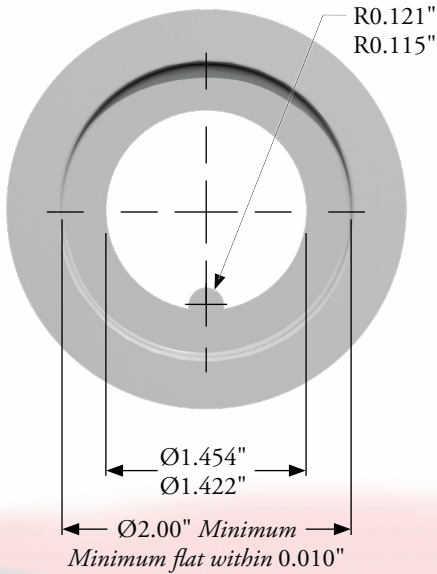
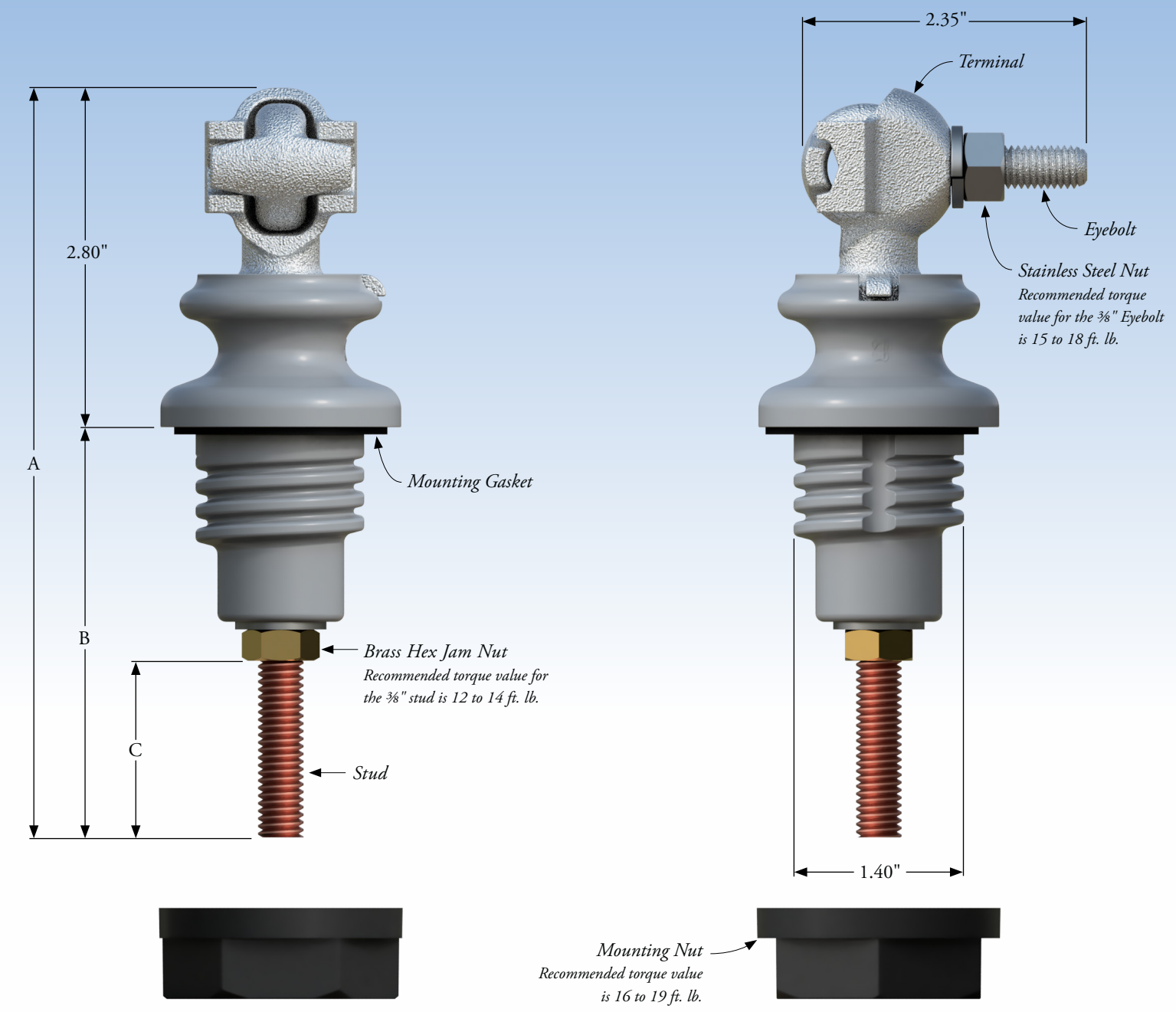


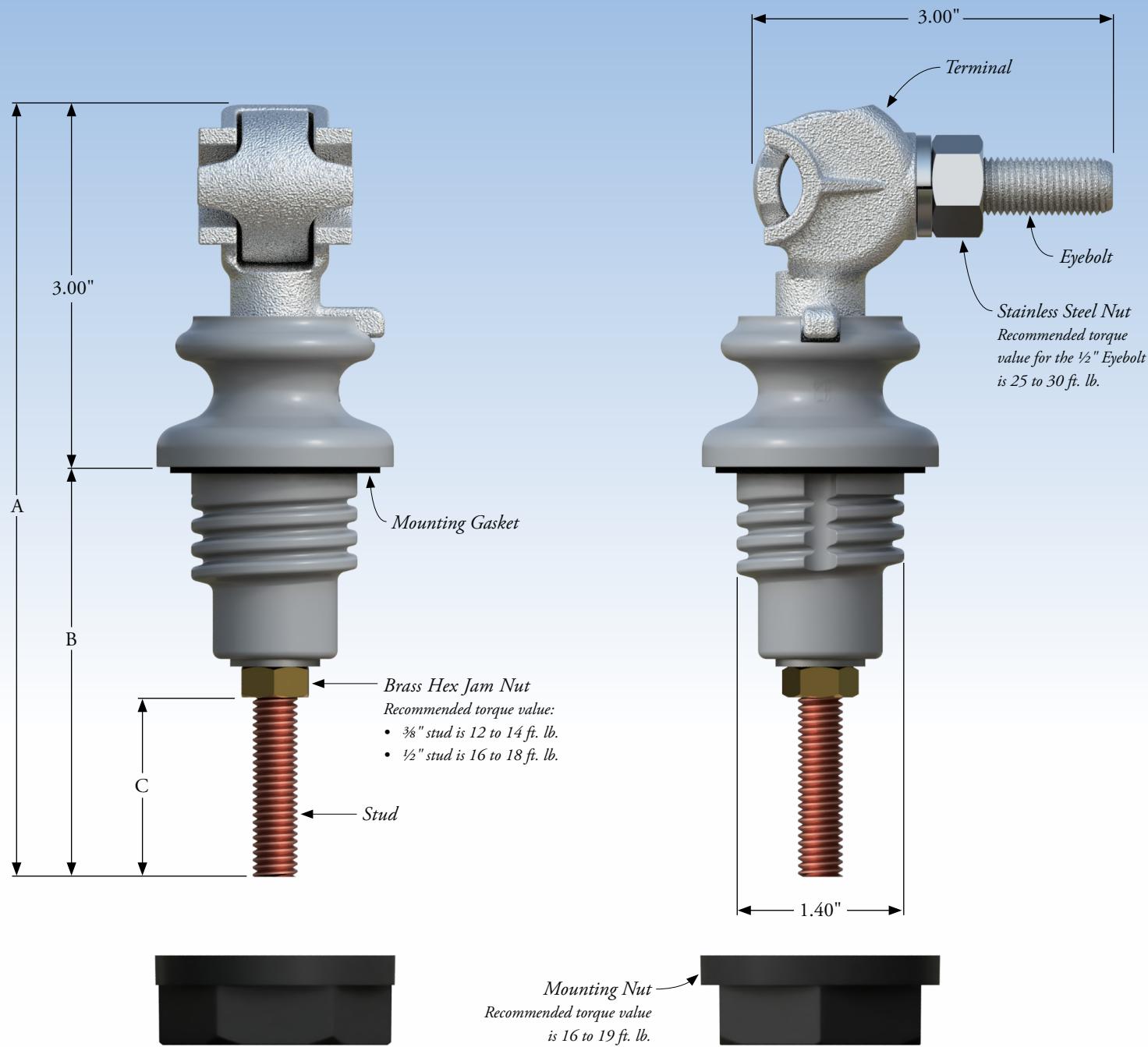
Figure 1  
Recommended Punch Detail



**Figure 2**  
**Low Voltage Pole Bushing with Terminal and Eyebolt**

Note: Dimensions are given for reference only.

| Catalog Number | Rating      |          |     |          |                | Thread Size |         |        | Cable                   | Dimensions (Inches) |       |       |
|----------------|-------------|----------|-----|----------|----------------|-------------|---------|--------|-------------------------|---------------------|-------|-------|
|                | Typical KVA | kV Class | AMP | HIPOT kV | Impulse kV BIL | Terminal    | Eyebolt | Stud   |                         | A                   | B     | C     |
| 9U10LPB010     | 10/15       | 1.2      | 63  | 10       | 30             | 3/8-16      | 3/8-16  | 3/8-16 | #6 Solid - 4/0 Stranded | 6 1/8               | 3 3/8 | 1 1/2 |



**Figure 2**  
**Low Voltage Pole Bushing with Terminal and Eyebolt**

Note: Dimensions are given for reference only.

| Catalog Number | Rating      |          |     |          |                | Thread Size |         |        | Cable                       | Dimensions (Inches) |       |       |
|----------------|-------------|----------|-----|----------|----------------|-------------|---------|--------|-----------------------------|---------------------|-------|-------|
|                | Typical KVA | kV Class | AMP | HIPOT kV | Impulse kV BIL | Terminal    | Eyebolt | Stud   |                             | A                   | B     | C     |
| 9U10LPB025     | 25          | 1.2      | 104 | 10       | 30             | 3⁄8-16      | 1⁄2-13  | 3⁄8-16 | #2 Solid - 350 MCM Stranded | 6 3⁄8               | 3 3⁄8 | 1 1⁄2 |
| 9U10LPB050     | 50          | 1.2      | 208 | 10       | 30             | 1⁄2-13      | 1⁄2-13  | 1⁄2-13 | #2 Solid - 350 MCM Stranded | 6 5⁄8               | 3 5⁄8 | 1 5⁄8 |

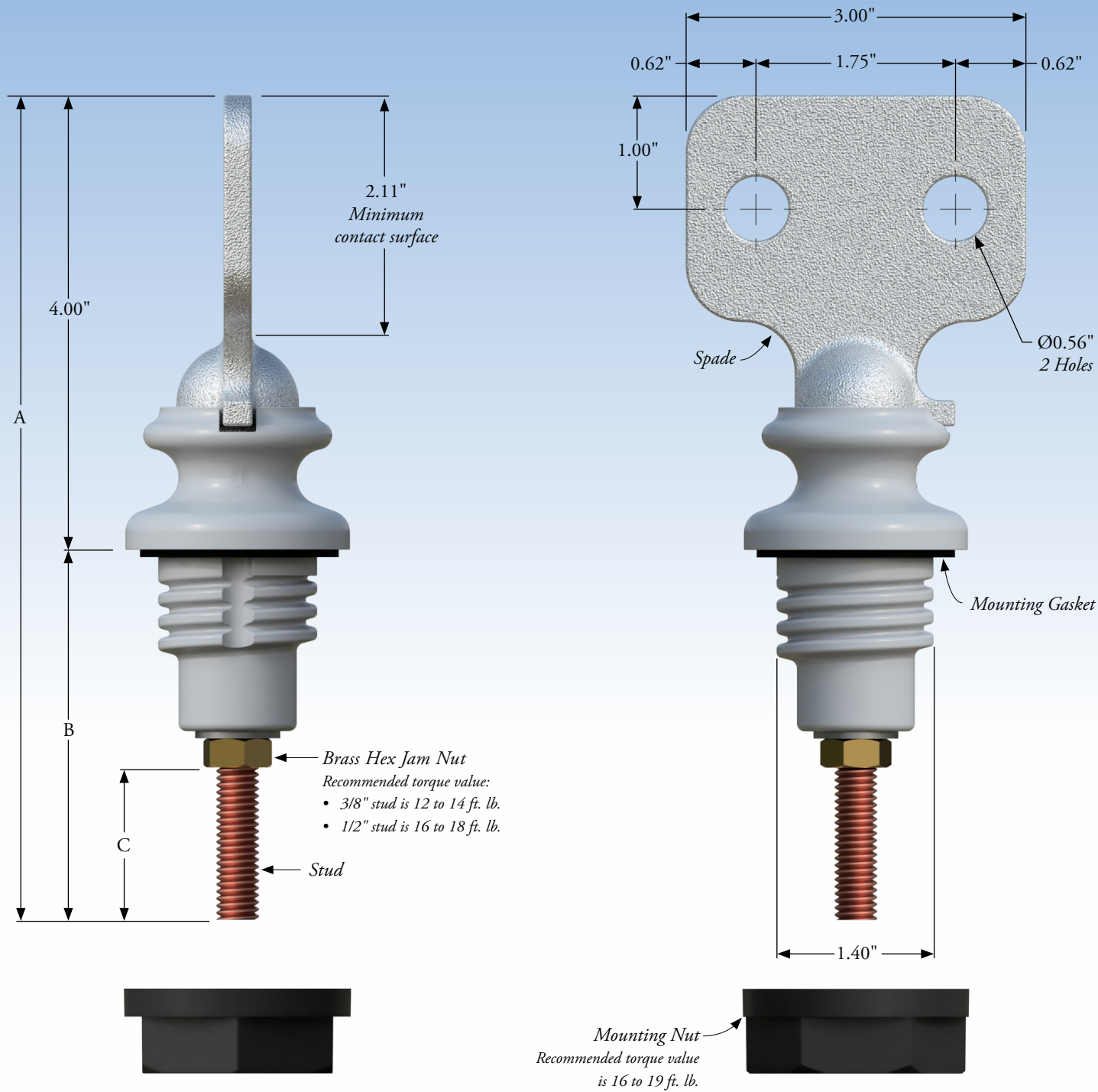


Figure 3  
Low Voltage Pole Bushing with Spade

Note: Dimensions are given for reference only.

| Catalog Number | Rating      |          |     |          |                | Thread Size |        | Spade Design | Dimensions (Inches) |       |       |
|----------------|-------------|----------|-----|----------|----------------|-------------|--------|--------------|---------------------|-------|-------|
|                | Typical KVA | kV Class | AMP | HIPOT kV | Impulse kV BIL | Spade       | Stud   |              | A                   | B     | C     |
| 9U10SPB201     | 25          | 1.2      | 104 | 10       | 30             | 3/8-16      | 3/8-16 | 2 Hole Spade | 7 1/4               | 3 1/4 | 1 3/8 |
| 9U10SPB202     | 50          | 1.2      | 208 | 10       | 30             | 1/2-13      | 1/2-13 | 2 Hole Spade | 7 1/2               | 3 1/2 | 1 1/2 |

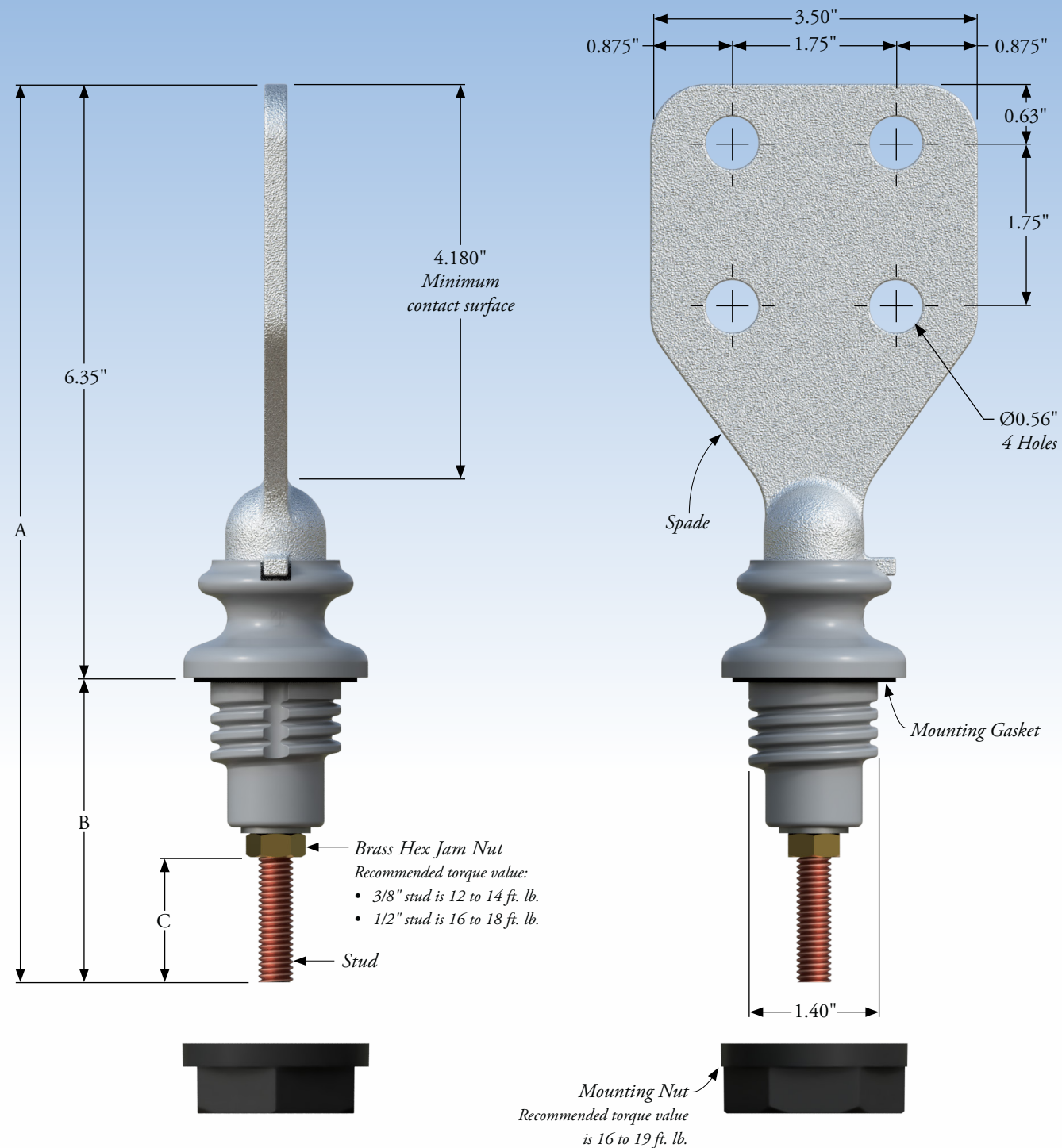


Figure 3  
Low Voltage Pole Bushing with Spade

Note: Dimensions are given for reference only.

| Catalog Number | Rating      |          |     |          |                | Thread Size |        | Spade Design | Dimensions (Inches) |       |       |
|----------------|-------------|----------|-----|----------|----------------|-------------|--------|--------------|---------------------|-------|-------|
|                | Typical KVA | kV Class | AMP | HIPOT kV | Impulse kV BIL | Spade       | Stud   |              | A                   | B     | C     |
| 9U10SPB401     | 25          | 1.2      | 104 | 10       | 30             | 3/8-16      | 3/8-16 | 4 Hole Spade | 9 3/8               | 3 1/4 | 1 3/8 |
| 9U10SPB402     | 50          | 1.2      | 208 | 10       | 30             | 1/2-13      | 1/2-13 | 4 Hole Spade | 10                  | 3 1/2 | 1 5/8 |