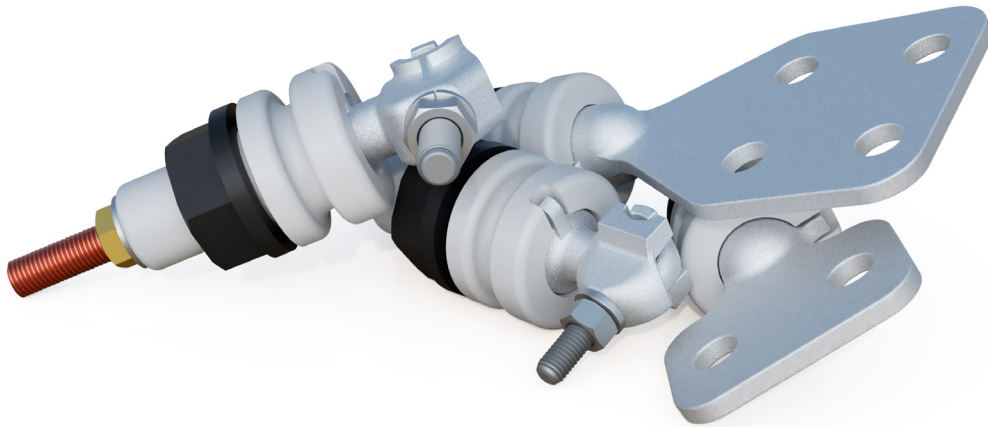


Low Voltage Pole Bushing

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

- Thermoset Polyester compound 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 reliable *thermoset glass-filled polyester* material. It has superior temperature stability, strength, toughness, dielectric strength, and weatherability.
- Our mounting nut has *3 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 = 39 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

Bushing with Mounting Nut and Gasket

Terminal - Brass casting alloy (CDA 84400 or CDA83600) with tin plating

Eyebolt - Bronze casting alloy (CDA95500) with tin plating

Stud - Copper (CDA 11000)

Catalog Number	Rating		Thread Size		<i>For more information see pages 3 and 4</i>
	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	

Bushing with Mounting Nut and Gasket

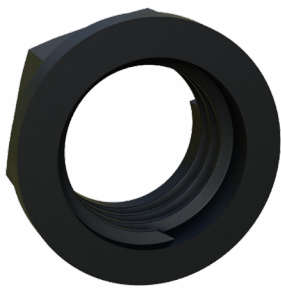
Spade - Brass casting alloy (CDA 84400 or CDA83600) with tin plating

Stud - Copper (CDA 11000)

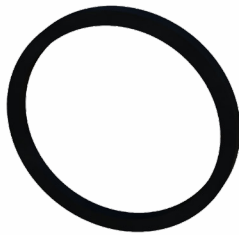
Catalog Number	Rating		Spade Design	Stud Thread	<i>For more information see pages 5 and 6</i>
	AMP	Typical KVA			
9U10SPB201	104	25	2 Hole Spade	3/8-16 UNC-2A	
9U10SPB202	208	50	2 Hole Spade	1/2-13 UNC-2A	
9U10SPB401	104	25	4 Hole Spade	3/8-16 UNC-2A	
9U10SPB402	208	50	4 Hole Spade	1/2-13 UNC-2A	

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

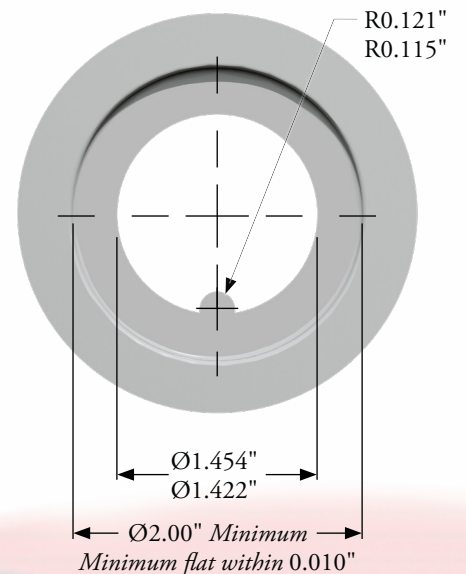


Figure 1
Recommended Punch Detail

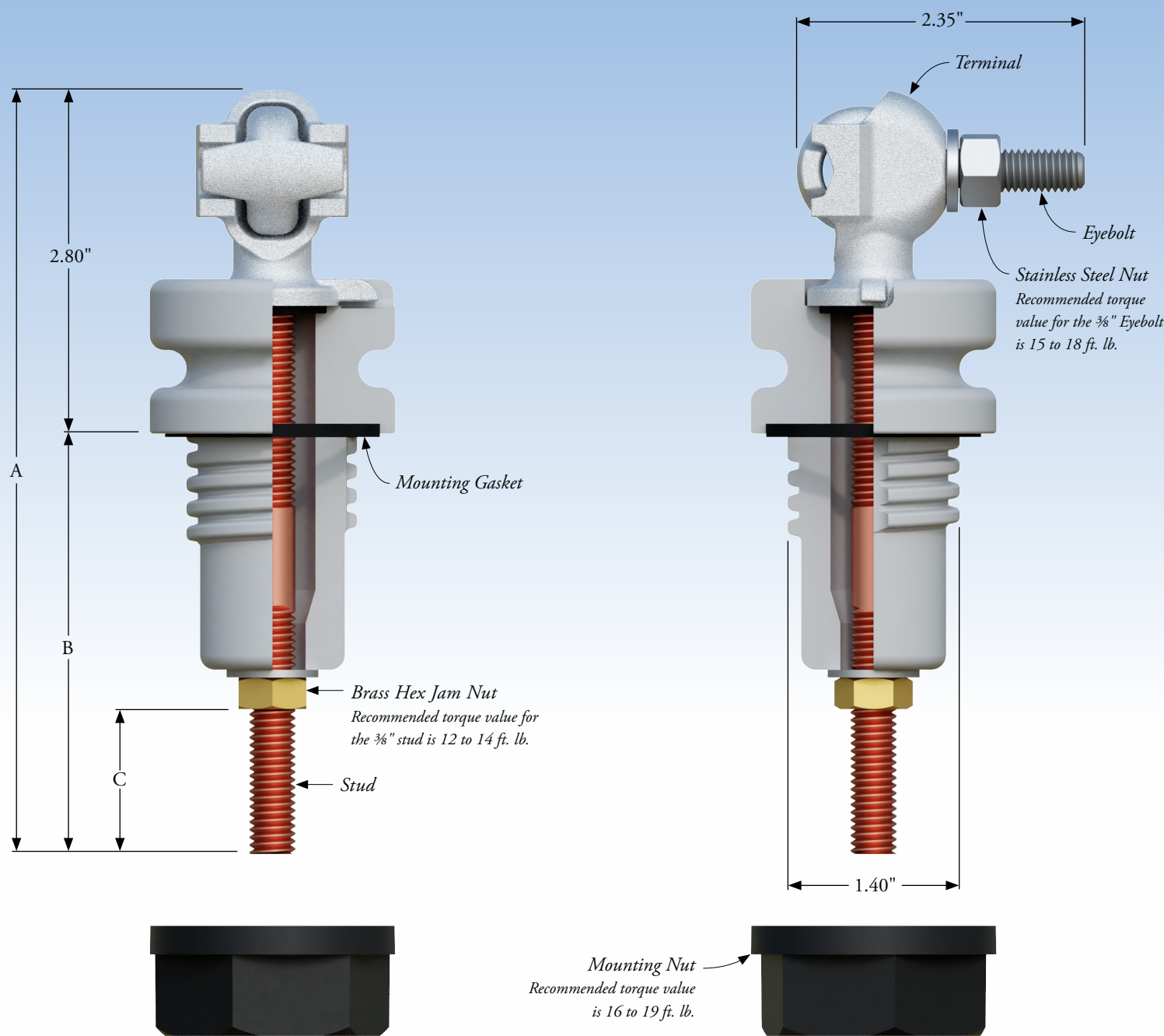


Figure 2
Low Voltage Pole Bushing with Terminal and Eyebolt

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 1⁄8

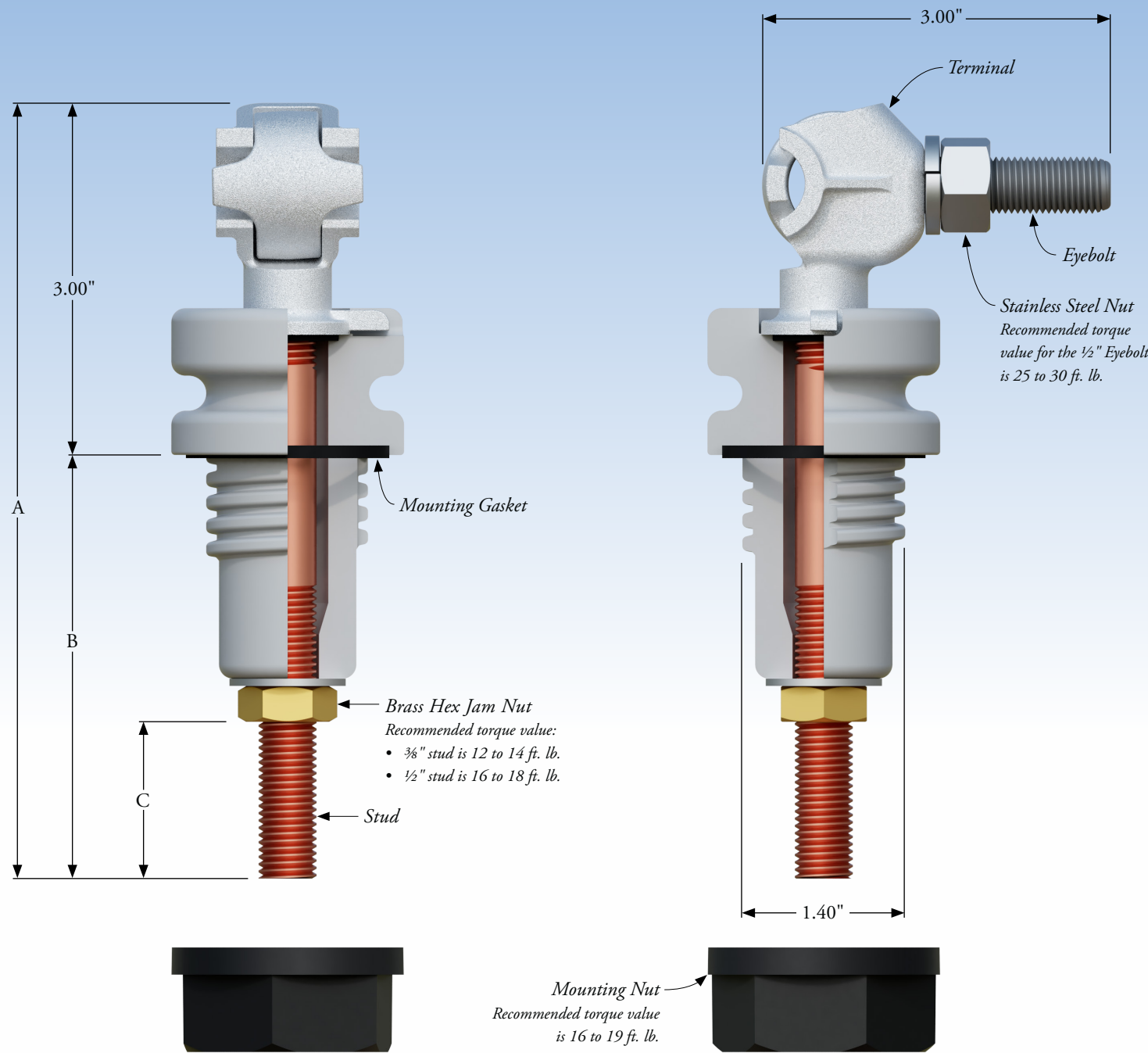


Figure 2
Low Voltage Pole Bushing with Terminal and Eyebolt

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 1⁄8
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 3⁄8

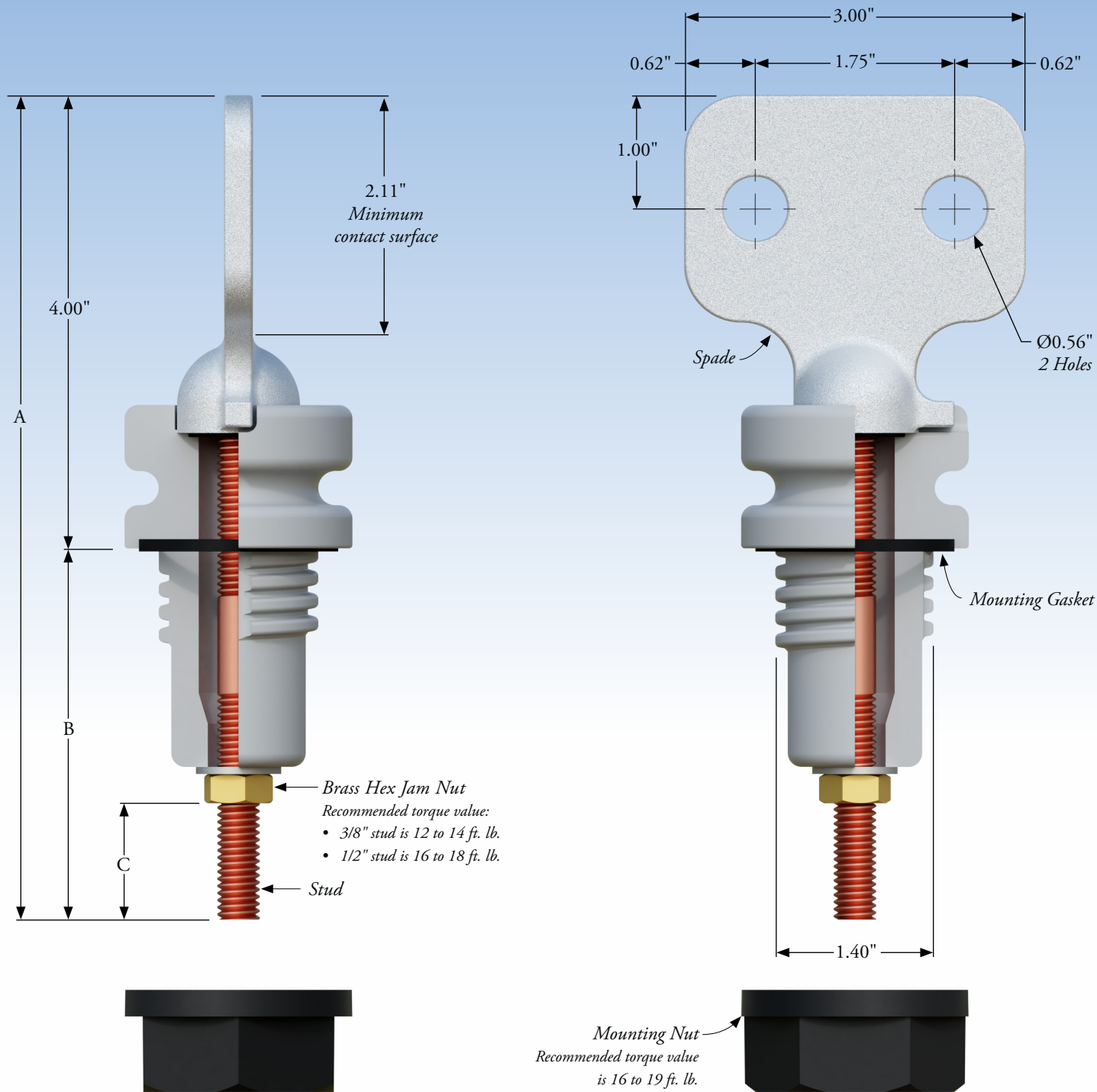


Figure 3
Low Voltage Pole Bushing with Spade

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 3/8	1 1/8
9U10SPB202	50	1.2	208	10	30	1/2-13	1/2-13	2 Hole Spade	7 1/2	3 5/8	1 3/8

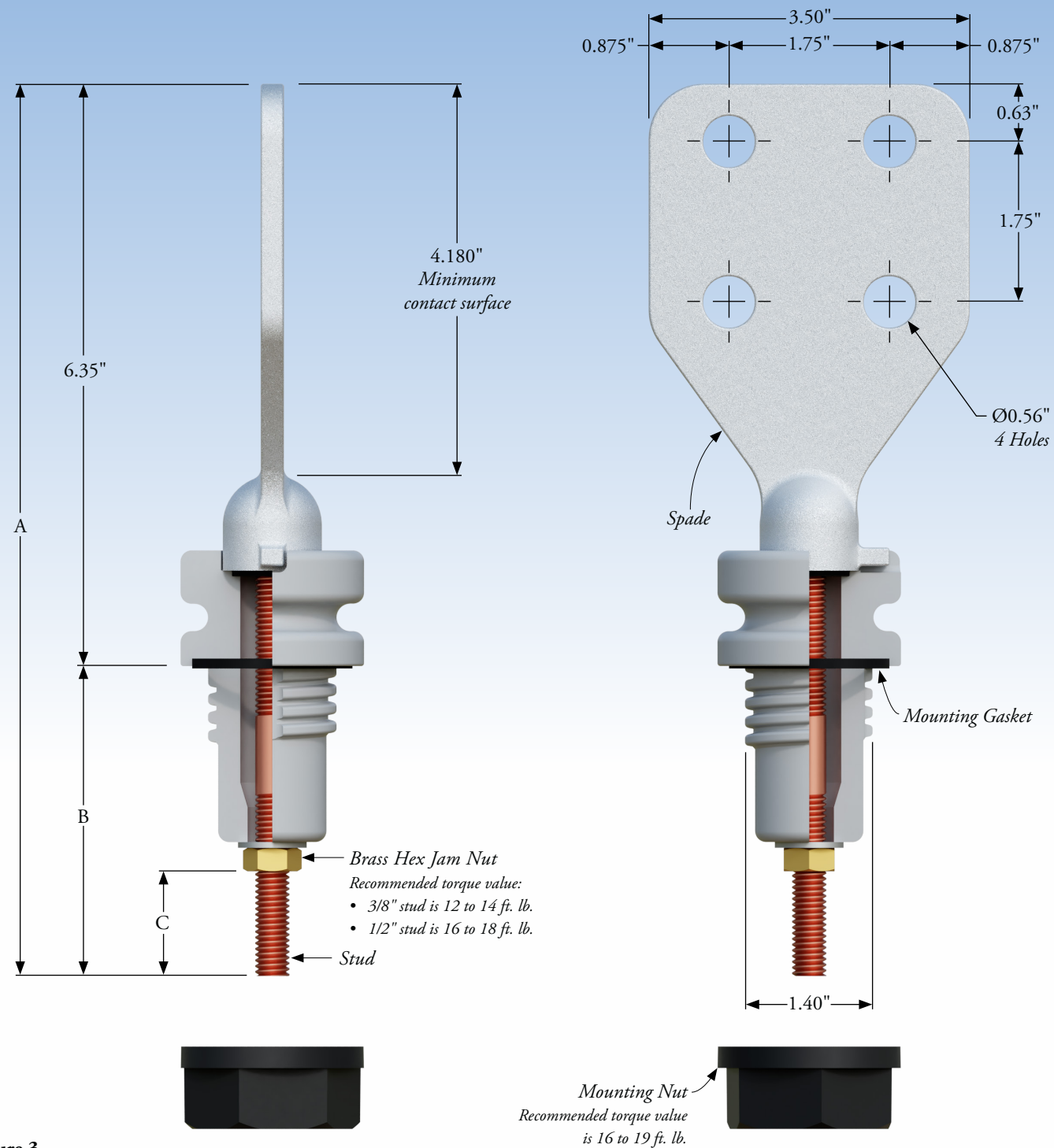


Figure 3
Low Voltage Pole Bushing with Spade

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
9U10SPB401	25	1.2	104	10	30	3/8-16	3/8-16	4 Hole Spade	9 3/4	3 3/8	1 1/8
9U10SPB402	50	1.2	208	10	30	1/2-13	1/2-13	4 Hole Spade	10	3 5/8	1 3/8