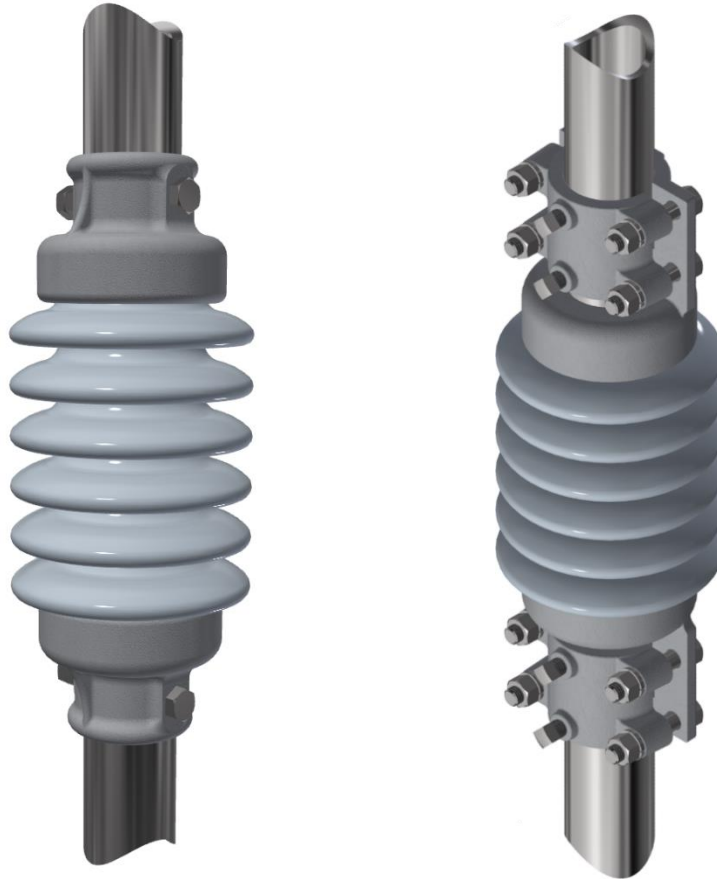
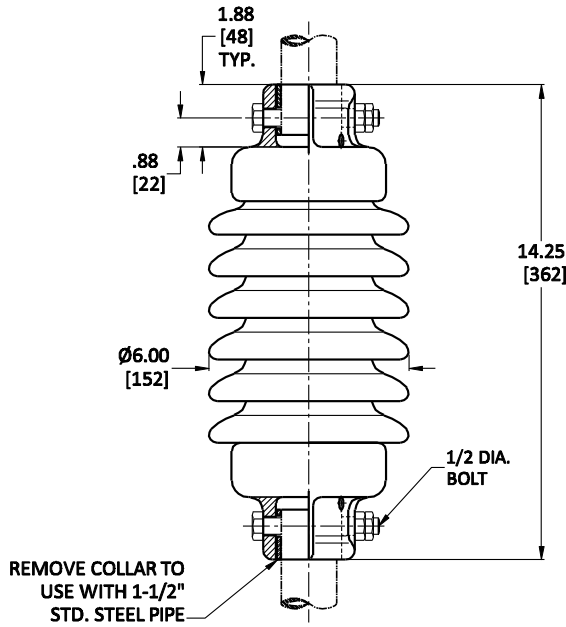


| <u>Porcelain Switch Rods</u> | <u>Page</u> |
|------------------------------|-------------|
| Switch Rods | 2 |



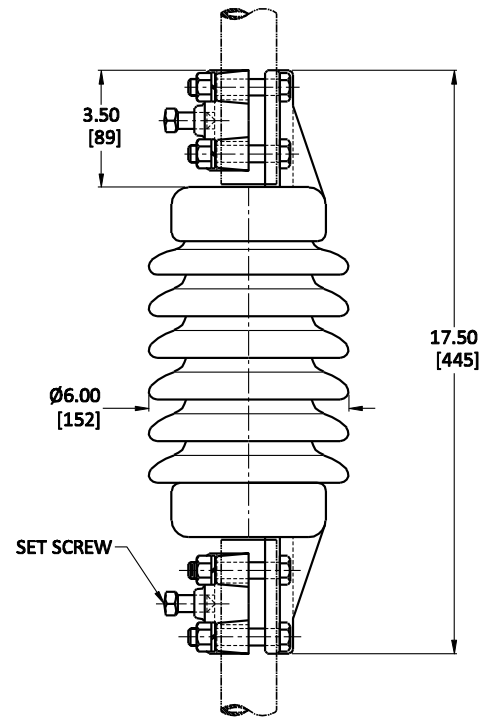
LAPP Insulators: An Industry Leader

Switch operating rod insulators are essentially the same as station posts, consisting of a single porcelain unit with a special cap cemented on each end. Their small diameter, strength and reliability provide an ideal method of insulating switch operating rods to protect personnel and equipment.



Bolt Mount Type

- Two removable collars that fit into sockets on the end caps
- With collars, the insulator fits into a 1-1/4" I.P.S. pipe
- Without collars, a 1-1/2" I.P.S. pipe can be used with the same insulator
- 9/16" diameter through holes are required in each pipe for field installation of the insulator



Clamp Mount Type

- Clamp attachments greatly simplify field installation of switch rod insulators since they keep the connection snug without drilling and bolting through the pipe
- Clamp attachment provides a secure, rigid assembly that is equally good under tension, torsion or compression
- Accommodates a 1-1/4" or 1-1/2" I.P. S. pipe

Characteristics

| Catalog Number (Light Gray-ANSI 70) | 8138-70 | 61400-70 | 10891-70 | 80523-70 |
|--|-----------------|----------------|--------------|--------------|
| Catalog Number (Brown) | 8138 | 61400 | 10891 | 80523 |
| Mount Type | BOLT | CLAMP | BOLT | CLAMP |
| Dimensions | | | | |
| Leakage Distance, in. [mm] | 19 [483] | 19 [483] | 19 [483] | 19 [483] |
| Used with Pipe Diameter, I.P.S | *1-1/4 or 1-1/2 | 1-1/4 or 1-1/2 | 2 | 2 |
| Mechanical Values | | | | |
| Tension Strength (Ultimate), lbs. [kN] | 12000 [22.2] | 12000 [22.2] | 12000 [22.2] | 12000 [22.2] |
| Torsion Strength (Ultimate), in-lbs. [kNm] | 25000 [22.2] | 25000 [22.2] | 25000 [22.2] | 25000 [22.2] |
| Electrical Values | | | | |
| Low Frequency Dry Flashover, kV | 90 | 90 | 90 | 90 |
| Low Frequency Wet Flashover, kV | 70 | 70 | 70 | 70 |