

# HV Switchgear Bushings

PIBS / PCYBS Series - Indoor to 1000A  
Slenderline Switchgear Bushing, to 150kV BIL



PIBS28B1

### Application:

- air to air for switchgear and power apparatus
- with 600V current transformers mounted below flange
- voltage ratings 15kV and 25kV
- standard current ratings to 1000A
- PIBS bushings for indoor applications (not exposed to UV radiation) in lightly polluted environments
- PCYBS bushings for use in high condensation or heavily polluted environments
- rated - 5°C to 120°C

### Construction:

- capacitance graded condenser type bushings with internal ground shield for control of electric field distribution
- PIBS - bushings have a red Bisphenol-A epoxy insulating body
- PCYBS - bushings have a grey Cycloaliphatic epoxy insulating body
- electrolytic copper studs threaded either end
- silver plated conductors
- four brass mounting inserts (connected to ground shield)
- designed and tested to meet ANSI and CSA Switchgear Assemblies Standards, with IEC 137 as technical guide

### Options

- various below flange lengths for CT mounting
- special copper terminations
- for gaskets see **Accessories - Section 7 - Page 194a**

## Standard Bushings

Catalog Reference	Body Material	BIL (kV)	Body Detail	Current Ratings Conductor	See Page No.
PIBS15	Red Epoxy (Bisphenol-A)	95	Flange 5.0" Dia Below Flange 3.0" Dia Mounting Pattern 4.0" BCD	200A to 1000A Silver Plated Copper	170-1b
PIBS25		125			
PIBS28		150			
PCYBS15	Grey Epoxy (Cycloaliphatic)	95			
PCYBS25		125			
PCYBS28		150			

**Outline details of these items including other options are on following pages.  
Please order by Style Number.**



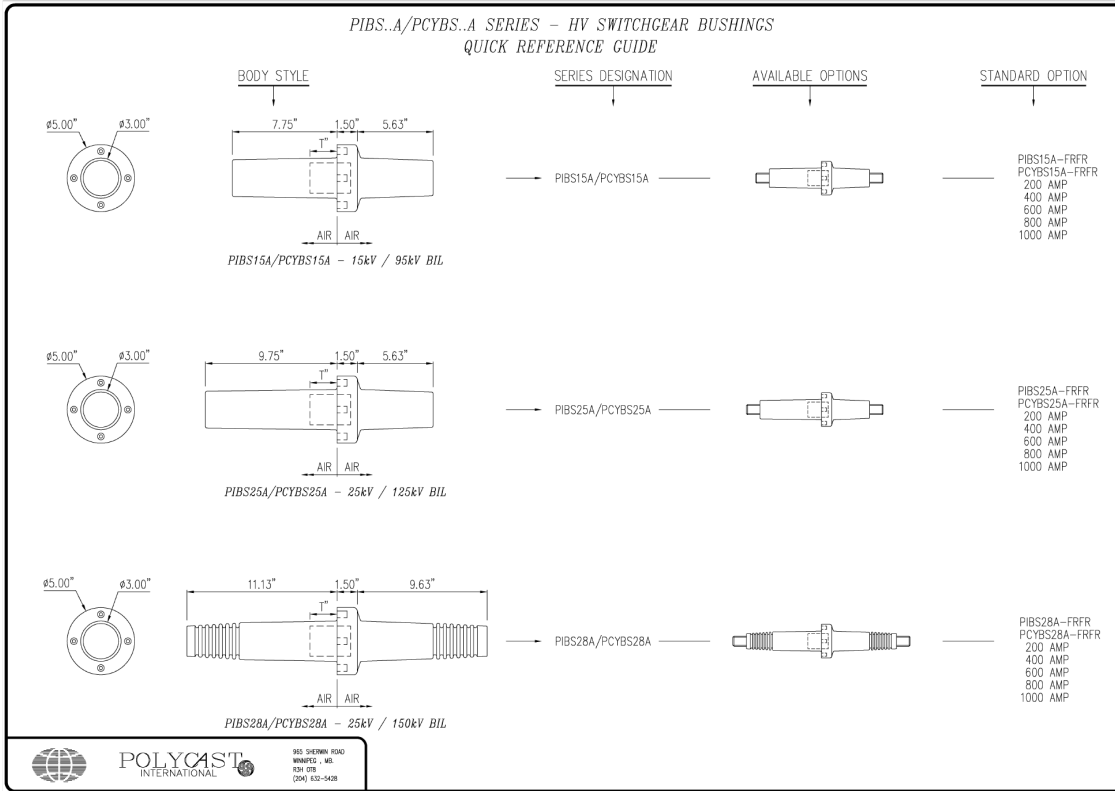
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# HV Switchgear Bushings

## PIBS Series - Outline Details

Indoor, 95kV to 150kV BIL



### Style Numbers: PIBS Series Four Hole Mounting Flange, "T" = 2.0"

Red Epoxy, Silver Plated Copper - Threaded Both Ends				
Current Rating	Stud Diameter	PIBS15A 95kV BIL 'T' = 2.0"	PIBS25A 125kV BIL 'T' = 2.0"	PIBS28A 150 kV BIL 'T' = 2.0"
200A	0.50"	170-001-31	170-301-31	170-401-31
400A	0.625"	170-001-32	170-301-32	170-401-32
600A	0.75"	170-001-33	170-301-33	170-401-33
800A	1.00"	170-001-34	170-301-34	170-401-34
1000A	1.25"	170-001-35	170-301-35	170-401-35

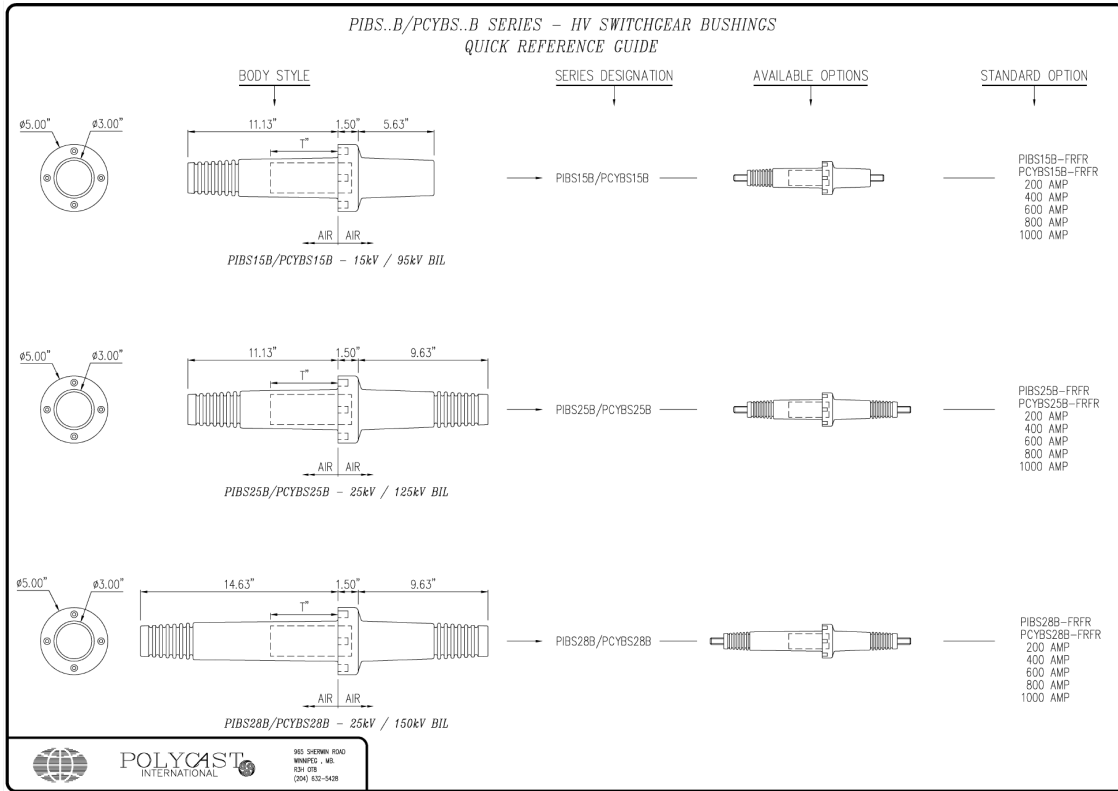
#### Notes:

- **Cycloaliphatic Bushings Available** – bushings manufactured from cycloaliphatic epoxy (PCYBS Series) are suitable for environments exposed to ultra violet light, or increased levels of condensation or pollution. Contact Polycast for further information.
- Current Ratings are conservatively based on air/air applications.
- CT mounting to 'T' less one half inch below flange.
- Other 'T' lengths and Conductor Terminations available on request.

# HV Switchgear Bushings

## PIBS Series - Outline Details

Indoor, 95kV to 150kV BIL



### Style Numbers: PIBS Series Four Hole Mounting Flange, "T" = 5.0"

Red Epoxy, Silver Plated Copper - Threaded Both Ends				
Current Rating	Stud Diameter	PIBS15B 95kV BIL 'T' = 5.0"	PIBS25B 125kV BIL 'T' = 5.0"	PIBS28B 150kV BIL 'T' = 5.0"
200A	0.50"	170-031-31	170-331-31	170-431-31
400A	0.625"	170-031-32	170-331-32	170-431-32
600A	0.75"	170-031-33	170-331-33	170-431-33
800A	1.00"	170-031-34	170-331-34	170-431-34
1000A	1.25"	170-031-35	170-331-35	170-431-35

#### Notes:

- **Cycloaliphatic Bushings Available** – bushings manufactured from cycloaliphatic epoxy (PCYBS Series) are suitable for environments exposed to ultra violet light, or increased levels of condensation or pollution. Contact Polycast for further information.
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