

# HV Switchgear Bushings

## PIBQ & PCYBQ Series

Indoor, 4 Hole Mounting Flange, to 170kV BIL, 2000A

### Application:

- air to air for switchgear and power apparatus
- for use with 600V current transformers mounted below flange
- voltage ratings 15kV through 38kV
- current ratings to 2000A (3000A option on some styles)
- PIBQ bushings for indoor applications (not exposed to UV radiation) in lightly polluted environments
- PCYBQ bushings for high condensation or heavily polluted environments rated -50°C to 120°C



PIBQ35A Bushing



Grey Cycloaliphatic  
Epoxy Bushings  
Available

### Construction:

- similar to PIBG / PCYBG series, except 4 mounting holes, larger flange diameter and larger below flange diameter
- capacitance graded condenser type bushings with internal ground shields for control of electric field distribution
- PIBQ bushings have a red Bisphenol-A epoxy insulating body
- PCYBQ bushings have a grey Cycloaliphatic epoxy insulating body
- electrolytic copper: 2 hole, 4 hole NEMA spades or threaded studs
- silver plated conductors
- brass inserts for mounting (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

## Standard Bushings

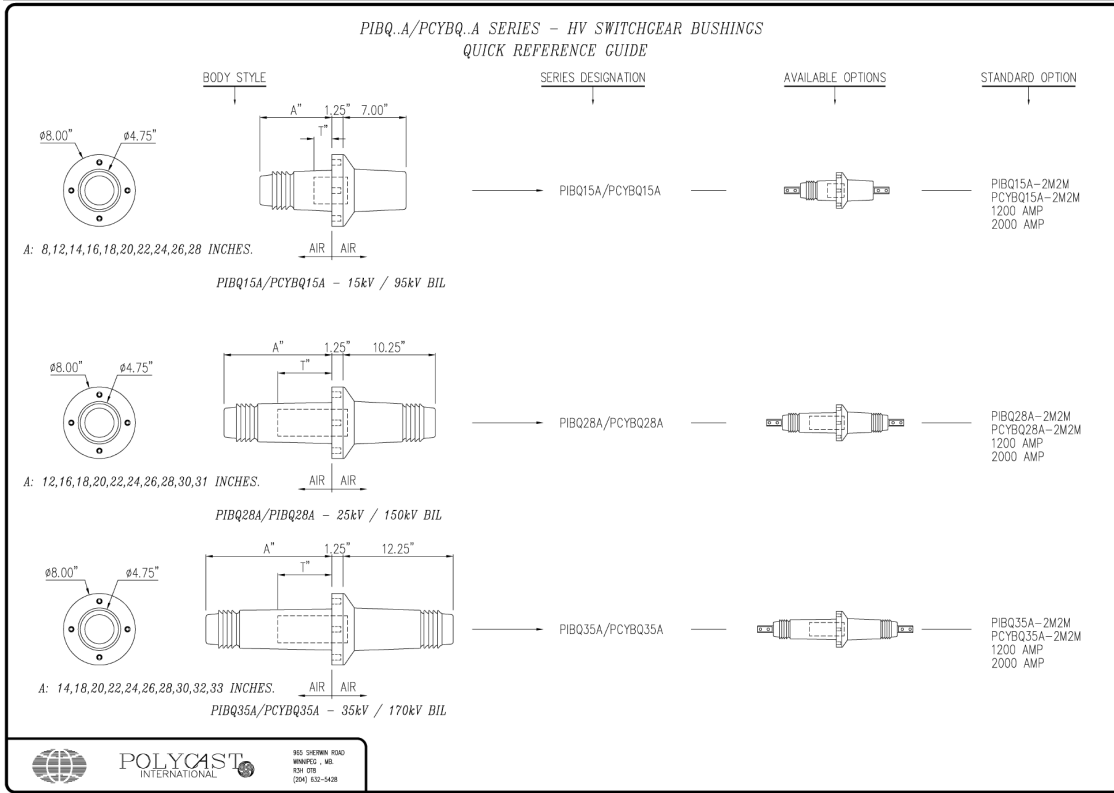
Catlog Reference	Body Material	BIL (kV)	Body Detail	Current Ratings Conductor	See Page No.
PIBQA	Red Epoxy (Bisphenol-A)	95-170	Flange 8.00" Dia Below Flange 4.75" Dia Mounting Pattern 6.25" BCD	2 hole NEMA Milled Flats Silver Plated Copper 1200A to 2000A	172-2b
PCYBQA	Grey Epoxy (Cycloaliphatic)				
PIBQB	Red Epoxy (Bisphenol-A)	95-170	Multiple length options, depending upon CT mounting length required.	4 hole NEMA Spade Silver Plated Copper 1200A to 2000A	172-2c
PCYBQB	Grey Epoxy (Cycloaliphatic)				
PIBQC	Red Epoxy (Bisphenol-A)	95-170		Threaded Rod Silver Plated Copper 1200A to 2000A	172-2d
PCYBQC	Grey Epoxy (Cycloaliphatic)				

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

# HV Switchgear Bushings

## PIBQA Series - Outline Details

Indoor, 95kV to 170kV BIL



### Style Numbers: PIBQA Series 2 Hole NEMA Milled Flat Each End

PIBQA Red Epoxy, Silver Plated Copper with 2 hole NEMA Milled Flat Each End										
Catalog Reference	BIL kV	Current Rating	Stud Dia.	'T'=2.0"	'T'=6.0"	'T'=8.0"	'T'=10.0"	'T'=12.0"	'T'=14.0"	'T'=16.0"
PIBQ15A	95	1200A	1.5"	172-301-31	172-302-31	172-303-31	172-304-31	172-305-31	172-306-31	172-307-31
		2000A	2.0"	172-321-31	172-322-31	172-323-31	172-324-31	172-325-31	172-326-31	172-327-31
PIBQ28A	150	1200A	1.5"	172-401-31	172-402-31	172-403-31	172-404-31	172-405-31	172-406-31	172-407-31
		2000A	2.0"	172-421-31	172-422-31	172-423-31	172-424-31	172-425-31	172-426-31	172-427-31
PIBQ35A	170	1200A	1.5"	172-601-31	172-602-31	172-603-31	172-604-31	172-605-31	172-606-31	172-607-31
		2000A	2.0"	172-621-31	172-622-31	172-623-31	172-624-31	172-625-31	172-626-31	172-627-31

**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.
- Other 'T' lengths and conductor options available upon request.



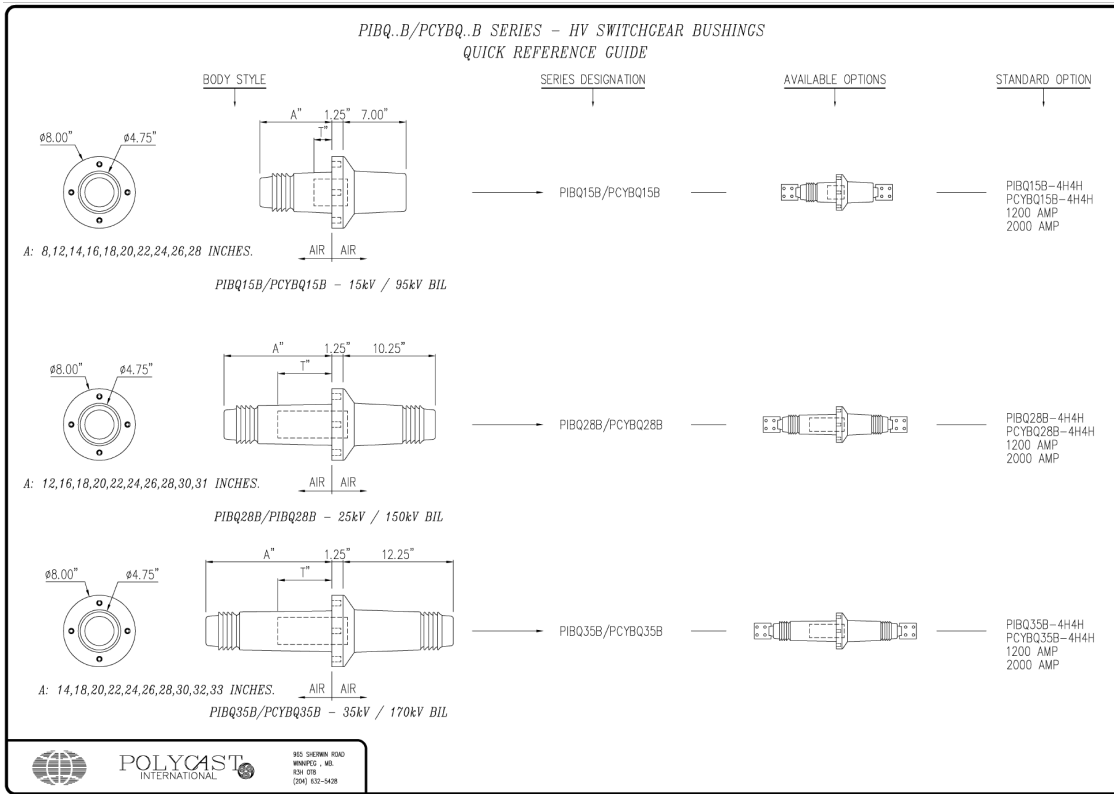
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# HV Switchgear Bushings

## PIBQB Series - Outline Details

Indoor, 95kV to 170kV BIL



### Style Numbers: PIBQB Series 4 Hole NEMA Spade Each End

PIBQB Red Epoxy, Silver Plated Copper with 4 hole NEMA Welded Spade Each End										
Catalog Reference	BIL kV	Current Rating	Stud Dia.	'T'=2.0"	'T'=6.0"	'T'=8.0"	'T'=10.0"	'T'=12.0"	'T'=14.0"	'T'=16.0"
PIBQ15B	95	1200A	1.5"	172-301-32	172-302-32	172-303-32	172-304-32	172-305-32	172-306-32	172-307-32
		2000A	2.0"	172-321-32	172-322-32	172-323-32	172-324-32	172-325-32	172-326-32	172-327-32
PIBQ28B	150	1200A	1.5"	172-401-32	172-402-32	172-403-32	172-404-32	172-405-32	172-406-32	172-407-32
		2000A	2.0"	172-421-32	172-422-32	172-423-32	172-424-32	172-425-32	172-426-32	172-427-32
PIBQ35B	170	1200A	1.5"	172-601-32	172-602-32	172-603-32	172-604-32	172-605-32	172-606-32	172-607-32
		2000A	2.0"	172-621-32	172-622-32	172-623-32	172-624-32	172-625-32	172-626-32	172-627-32

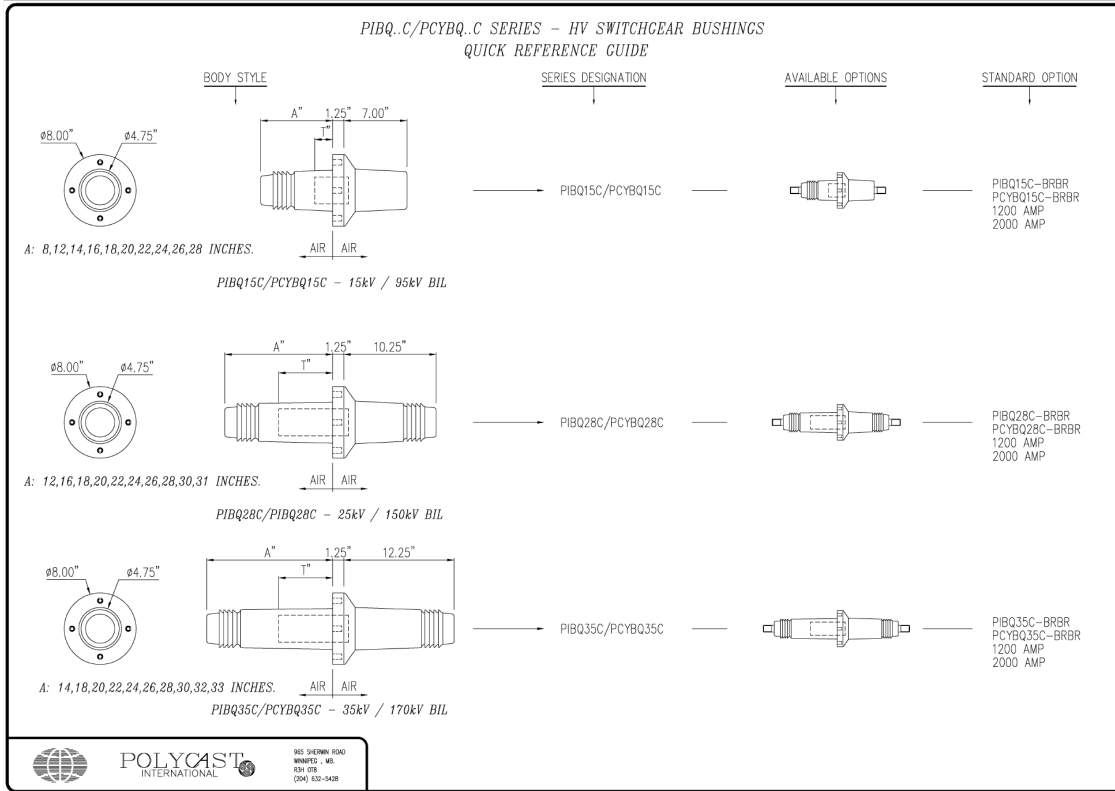
#### Notes:

- Outdoor Bushings Available** – bushing styles listed above are available in Grey Cycloaliphatic Epoxy for outdoor use.
- 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.
- Other 'T' lengths and conductor options available upon request.

# HV Switchgear Bushings

## PIBQC & PCYBQC Series - Outline Details

Indoor, 95kV to 170kV BIL



### Style Numbers: PIBQC Series Threaded Rod Each End

PIBQC Red Epoxy, Silver Plated Copper with Threaded Rod Each End										
Catalog Reference	BIL kV	Current Rating	Stud Dia.	'T'=2.0"	'T'=6.0"	'T'=8.0"	'T'=10.0"	'T'=12.0"	'T'=14.0"	'T'=16.0"
PIBQ15C	95	1200A	1.5"	172-301-33	172-302-33	172-303-33	172-304-33	172-305-33	172-306-33	172-307-33
		2000A	2.0"	172-321-33	172-322-33	172-323-33	172-324-33	172-325-33	172-326-33	172-327-33
PIBQ28C	150	1200A	1.5"	172-401-33	172-402-33	172-403-33	172-404-33	172-405-33	172-406-33	172-407-33
		2000A	2.0"	172-421-33	172-422-33	172-423-33	172-424-33	172-425-33	172-426-33	172-427-33
PIBQ35C	170	1200A	1.5"	172-601-33	172-602-33	172-603-33	172-604-33	172-605-33	172-606-33	172-607-33
		2000A	2.0"	172-621-33	172-622-33	172-623-33	172-624-33	172-625-33	172-626-33	172-627-33

**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.
- Other 'T' lengths and conductor options available upon request.



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