



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America

# ***Catalog 2024***



***Distribution - Substation - Transmission***



# Contents

Company History.....	3
Made in USA.....	4
Distribution Insulators.....	5
Station Posts.....	15
Cap & Pin.....	21
OEM Switch Insulators.....	22
Indoor Bus Supports.....	23
Transit Insulators.....	25
Polymer Distribution.....	26
Polymer Station Posts.....	31
Polymer Transmission.....	33
Glass Suspensions.....	40
Porcelain Suspensions.....	41

## Contact Information

### **Victor Insulators Main Number**

585-924-2127

**VP of Sales and Marketing:** John Tinsley  
jtinsley@victorinsulators.com Cell: 585-430-8689

**Inside Sales/Customer Service:** Angel Collazo  
ext. 207 acollazo@victorinsulators.com

**Sales Engineer:** Steph Carter ext. 294  
scarter@victorinsulators.com Cell: 585-747-0631



**VICTOR INSULATORS, INC.**

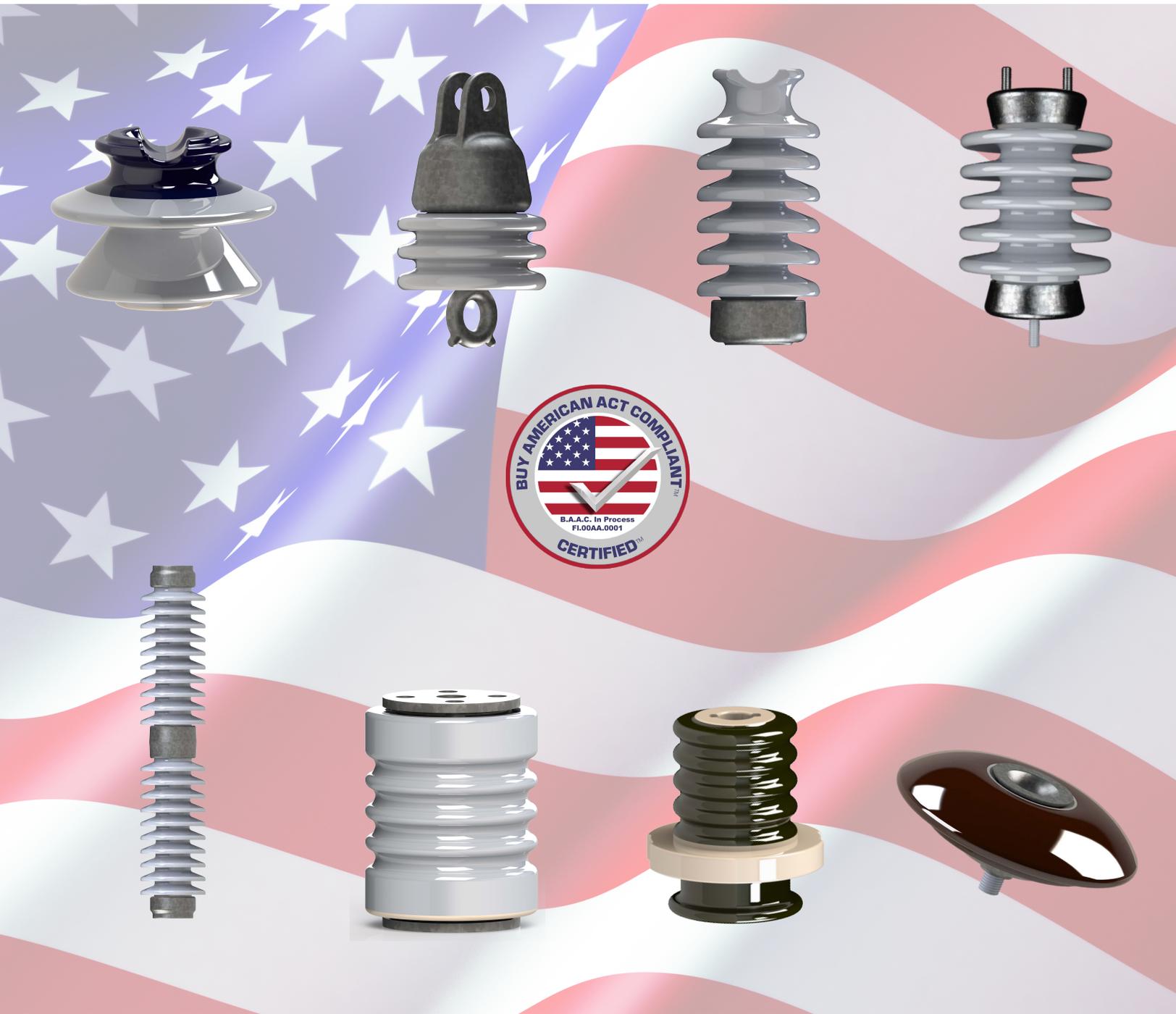
The original insulator manufacturer in North America





**Made In USA**

Many of the porcelain insulators are made in our Victor, New York plant and are Buy American Compliant



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



# Distribution Porcelain Insulators

## *Introduction*

Victor Insulators, Inc. has manufactured distribution insulators from wet process porcelain since 1893, longer than any other domestic manufacturer. For 130 years, we have been dedicated to serving the electrical industry by providing the highest quality products to meet all application requirements.

We are committed to the future, without resting on past accomplishments. Victor has always led the way with new and exciting insulator products, and we will continue to serve our customers through the next century with the same level of commitment and accomplishment.

Today, our product line is extensive - wider in scope than our competitors - and higher in quality. Most of our insulators are manufactured in Victor, New York. We use only the finest wet process electrical porcelain to eliminate any possibility of insulator failure. We use only ferrous hardware for assembly to our porcelain. All Portland cement used in assembly of our products is steam cured, and we subject each and every insulator to a battery of inspections and tests that meet or exceed those required by industry standards set by ANSI, CSA, REA, etc.

Our manufacturing facility is staffed with technical experts. Our process is controlled with the latest technology at every step of the operation, from computer- controlled batching to computer- controlled firing. The entire manufacturing process is overseen by a computerized materials and resource planning unit, which is fully integrated with Sales and Accounting, to ensure that our customers receive both the best products and the best service.



Victor Insulators, Inc. is dedicated to providing products of the highest quality. We have in place an extensive, customer- audited and approved quality assurance program, ISO 9001. Our objective is simple: manufacture the best! Our years of experience have taught us many secrets of successful insulator design and manufacturing. We constantly use our own experience to upgrade and improve, or develop new products. As dedicated as we are to manufacturing quality products, we are just as dedicated to providing the highest level of customer service. We have long recognized that the key to success is our customer satisfaction.

To make sure that you have instant access to all of our products and services, we are represented by a strong network of local representatives. Because they live in the same communities and are dedicated to serving them, these local representatives know our customers' needs well. Together, the team of Victor Insulators and our local representatives assures you of the finest service available. As you read through this catalog you will notice the broad scope of our product line. This is your assurance that you can fulfill all your insulator needs from one source: Victor Insulators, Inc



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



# Spools

*Guaranteed lifetime performance*

- Exceed ANSI electrical and mechanical requirements
- Available in 3 colors: gray, white, and brown
- Proven performance for over 100 years
- RUS Accepted
- Wet Process Porcelain



## Full ANSI C29.3 Spool Product Line & Special Designs

Cat. No.	ANSI Class	RUS Accepted	Length (in.)	Neck Type	Qty/Pallet
VI 2611	53-1	Yes	2-1/8	A	3600
VI 2612	53-2	Yes	3	A	1440
VI 2613	53-3	Yes	3-3/6	A	1440
VI 2614	53-5	-	4-1/8	F	-
VI 2617	-	-	2-1/8	A	3600
VI 2626	53-4	Yes	3	F	960
2030	-	-	6-1/4	-	-

*For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)*



# VICTOR INSULATORS, INC.

The original insulator manufacturer in North America



# Guy Strains

- Exceed ANSI electrical and mechanical requirements
- Proven performance for over 100 years
- RUS Accepted
- Wet Process Porcelain
- Precision contour dimension control that eliminates cable stress

## Full ANSI C29.4 Guy Strain Product Line



Cat. No.	ANSI Class	Tensile Strength (lbs.)	Cable Diameter	Qty per Pallet
VI 4602	54-1	10000	3/8	2400
VI 4604	54-2	12000	1/2	1440
VI 4606	54-3	20000	5/8	900
VI 4656	54-4	20000	5/8	384

*For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)*



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



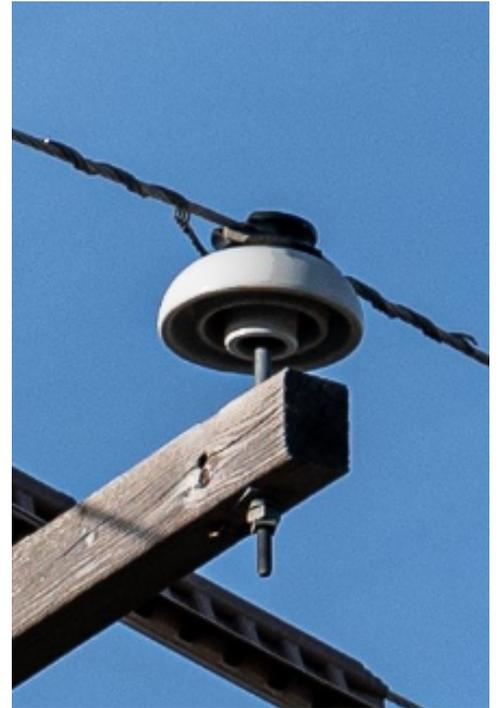
# Porcelain Pin-Type Insulators

*Guaranteed lifetime performance*

## DESIGN FEATURES

Victor offers a complete line of American National Standard low voltage and high voltage pin-types through ANSI Class 56-4. We are the only domestic manufacturer of one piece pin-types with porcelain thread construction in both Class 56-1 and Class 56-2.

All pin-types have been designed with side and top grooves which are contoured to accept large conductor diameters. They tie easily with all accepted tying methods. All are stamped with their neck size (C, F, J, etc.), so that the proper preformed tie can be selected and used.



High voltage pin-types consist of one or two porcelain elements, depending on the voltage class. Each of these elements acts as a dielectric layer in series between the conductor and ground. The multiple thickness provides an additional margin of safety at the higher voltages. Victor pin-type insulators have no equal when it comes to actual performance under real life conditions. Each design has undergone extensive testing to prove its lightning immunity and its performance under power frequency conditions.

The single piece construction, with porcelain thread pinholes at ANSI Class 56-1 and Class 56-2, is unique among domestic manufacturers. Victor pin-types offer a level of secure service not available from any other domestic source and have field service records unmatched by other types of designs. Victor has developed unique pinhole configurations that make the insulators particularly easy to install, with less chance of breakage due to over tightening. When properly installed, there is no need to back the insulators off in order to line up conductor grooves.



**VICTOR INSULATORS, INC.**

*The original insulator manufacturer in North America*



# Porcelain Pin-Type Insulators

*Guaranteed lifetime performance*

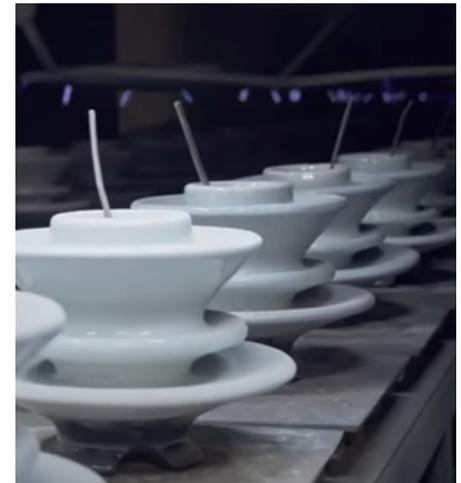
## TESTING AND RE-TESTING

Electrical and mechanical design tests are conducted on a periodic basis to make certain that Victor Insulators pin-types continue to meet or exceed all of their published characteristics.

Prior to shipment, every pin-type insulator is subjected to a vigorous flashover test to assure its electrical soundness. Then it undergoes a thorough visual inspection. We take special care to control pinhole dimensions. Pinholes are gauged to be certain that they will accept standard pin designs. On multi-part pin-types we assure overall quality by careful control of the cement.

We have very rigorous requirements for volume stability and long term mechanical strength. In addition, we subject each individual porcelain element to a flashover test and visual inspection prior to assembly of the insulator. The assembled insulator is also electrically tested and visually inspected.

As a result of these tests, which go beyond those required by the ANSI standards, our multi-part pin-type insulators have an exceptional performance record in the field. The head dimensions of all pin-types are maximized to provide the greatest possible resistance to conductor or tie roll-out. Head and neck dimensions are gauged to ensure conformance to standards.



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



# Pin Types

*Guaranteed lifetime performance*

- Made with a superior protected creep design
- Exceeds ANSI electrical and mechanical requirements
- The only U.S. manufacturer of one-piece pin types through 56-3
- Porcelain threads through 56-3
- Do not BURN or MELT
- Can be used at ANY operating temperature
- Do not corona cut, can be used with all diameter wire ties
- Dimensionally stable, not influenced by temperature fluctuations
- Proven performance for over 100 years
- RUS Accepted



## Full ANSI C29.5 & C29.6 Pin Type Product Line



### Low Voltage Pin Types

USA Cat. No.	Import Cat. No.	ANSI Class	App. kV*	RUS Accepted	Neck Type	Pin Hole Diameter (in.)	Qty / Pallet
8R	VI 608R	55-2	7.2	Yes	C	1	960
5R	VI 605R	55-3	11.5	Yes	C	1	810
6R	VI 606R	55-4	13.2	Yes	F	1	324
9R	VI 609R	55-5	14.4	-	F	1	288
11R	VI 611R	55-6	23	-	J	1	144

### High Voltage Pin Types

USA Cat. No.	Import Cat. No.	ANSI Class	App. kV*	RUS Accepted	Neck Type	Pin Hole Diameter (in.)	Qty / Pallet
27R	VI 627R	56-1	14.4/23	Yes	J	1-3/8	288
133R	VI 633R	56-2	23	-	K	1-3/8	112
145R	VI 645R	56-3	34.5	Yes	K	1-3/8	80
255R	VI 655R	56-4	46	Yes	-	1-3/8	27

*For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)*



# VICTOR INSULATORS, INC.

The original insulator manufacturer in North America



# High Density Polyethylene Insulators

*Guaranteed lifetime performance*

- 100% X-ray inspected - verified void free
- Durable, reliable, and lightweight
- Made with UV stabilized materials
- Exceeds ANSI electrical and mechanical requirements
- Resistant to impact and handling damage and vandalism
- Designed for Tie Top and Vise Top applications
- Compatible with all conductor types, bare or covered



## Direct replacement for all medium-voltage polymer insulators.

Cat. No.	ANSI Class Equivalent	Neck Type	Pin Hole Diameter (in.)	Qty / Pallet
<b>15kV</b>				
VIP 15C	55-3	C	1	576
VIP15F	55-4	F	1	576
VIP 15CT	-	-	1	576
<b>25kV</b>				
VIP 25F	55-5	F	1	384
VIP 25F-2	55-5	F	1-3/8	384
VIP 25CT	-	-	1	384
VIP 25CT-2	-	-	1-3/8	384
VIP 25J	56-1	J	1-3/8	384
VIP 25G	-	F	1	384
<b>35kV</b>				
VIP 35F	55-6	F	1	192
VIP 35F-2	55-6	F	1-3/8	192
VIP 35CT	-	-	1	192
VIP 35CT-2	-	-	1-3/8	192

*\*For universal insert add "V" to the catalog number*

*For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)*



## VICTOR INSULATORS, INC.

The original insulator manufacturer in North America



# Porcelain Line Post Insulators

*Guaranteed lifetime performance*

## **SOLID CORE DESIGN**

All of Victor's line posts are solid core, which gives them mechanical and electrical ruggedness and smaller diameters for ease of handling, superior electrical performance, and lighter weight. The result is an insulator that can withstand the mechanical stresses of shipping and installation, as well as the mechanical and electrical stresses of in-service conditions.



## **ALUMINA PORCELAIN**

Victor takes extraordinary precautions in the design, manufacture, and testing of all of our line post products. We recognize that line post insulators are subjected to many types of mechanical stresses and that the integrity of the line depends on the quality of our products. All of our 2800-lb. cantilever-strength line posts are made of alumina porcelain, which makes them lighter and, at the same time, more resistant to breakage than ordinary silica porcelain insulators. By using alumina porcelain, which is twice as strong as silica porcelain, we are able to reduce the diameters of the



thus reducing their weight while maintaining the required electrical and mechanical characteristics. The result is a product line that is slimmer, lighter, easier to handle and more aesthetically pleasing on the line.

## **DESIGN ADVANTAGES**

The line post design offers several advantages over other insulator concepts. The higher physical separation between the conductor and ground makes the line post inherently free from RIV, without conductive coatings. The open design of the corrugations permits a natural washing action of the leakage surface by rainfall. Horizontally mounted line posts offer the best opportunity for removal of conductive contaminants in good rainfall areas. The alumina porcelain, solid-core design is rugged. It resists impact damage caused by handling, vandalism, vibration, etc.

## **TESTED BEYOND MINIMUMS**

Victor Insulators tests each of our line post insulators to 50% of its rated cantilever strength in four quadrants. This is 25% higher than required by ANSI standards, but Victor never stops at minimum requirements in any of our designs or test programs. This assures you that the line posts manufactured by Victor Insulators, Inc. are of the highest quality.



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



# Line Posts

*Guaranteed lifetime performance*

- Lightweight, solid core alumina porcelain for superior performance
- Exceeds ANSI electrical and mechanical requirements
- The only U.S. manufacturer of porcelain distribution line posts
- Do not BURN or MELT
- Proven performance for over 100 years
- RUS Accepted
- Installation hardware components available from stock



## Full ANSI C29.7 Line Post Product Line & Special Designs



Cat. No.	ANSI Class	kV Rating*	Neck	Cantilever (lbs.)	Qty per Pallet	Cat. No.	ANSI Class	kV Rating*	Neck	Cantilever (lbs.)	Qty per Pallet
<b>Tie Top Line Posts</b>						<b>Horizontal (Stud Mount) Clamp Top Line Posts</b>					
2115	-	13.2	F	2000	144	62250	-	15	-	2800	108
2135	-	13.2	C	2000	144	62253	57-21	23	-	2800	78
2120	-	13.2	F	2000	144	62255	57-22	34.5	-	2800	78
2130	-	13.2	C	2000	144	62256	57-23	46	-	2800	78
2127	-	23	F	1500	144	62257	57-24	55	-	2800	40
2137	-	23	C	1500	144	62258	57-25	69	-	2800	40
2025	57-1	23	F	2800	144	62259	57-26	88	-	2800	20
62055	57-2	34.5	F	2800	108						
62056	57-3	46	F	2800	108						
<b>Vertical Clamp Top Line Posts</b>						<b>Horizontal (Gain Base) Line Posts</b>					
62150	-	15	-	2800	144	62353	57-31	23	-	2800	54
62153	57-11	23	-	2800	108	62355	57-32	34.5	-	2800	36
62155	57-12	34.5	-	2800	78	62356	57-33	46	-	2800	36
62156	57-13	46	-	2800	78	62357	57-34	55	-	2800	12
62157	57-14	55	-	2800	40	62358	57-35	69	-	2800	12
62158	57-15	59	-	2800	40	62359	57-36	88	-	2800	12
62159	57-16	88	-	2800	16						

For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)



# VICTOR INSULATORS, INC.

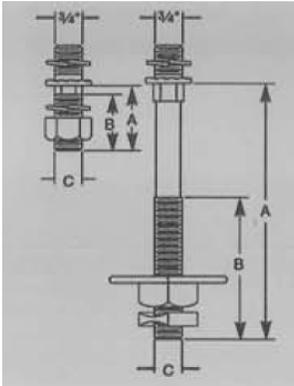
The original insulator manufacturer in North America



# Line Post Hardware

## Mounting Studs

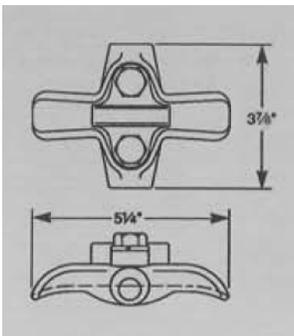
Mounting studs are available at an additional cost. Victor Insulators' studs can be used with all other manufacturers' line posts that meet ANSI standards



DIMENSIONS, WEIGHTS						
Cat. No.	Crossarm Type	Line Post Ratings kV	Dimensions			Shipping Weight - lbs
			A	B	C	
72087	Wood	34.5-69	7	4	3/4	1.50
72088	Steel	34.5-69	1 3/4	1 9/16	3/4	.56
72090	Steel	13.2-23	1 3/4	1 9/16	5/8	.45
72091	Wood	13.2-23	7	4	5/8	1.25

## Clamps

Victor Insulators' yoke design will accept other manufacturer's clamps with a standard nominal 4" trunnion. Conductor clamps have been designed with reversible keepers, so that three designs of clamps will accommodate conductors ranging from .25" to 1.5" in diameter. Victor Insulators' clamps will fit any 4" spaced yoke of either vertical or horizontal design.



DIMENSIONS, WEIGHTS					
Cat. No.	Conductor Size - Inches		Dimensions - Inches		Shipping Weight - lbs
	Min	Max	Length	Width	
72157	.25	.562	5 1/4	3 7/8	.87
72158	.50	1.062	5 1/4	3 7/8	.99
72159	1.00	1.5	5 1/4	3 7/8	1.25



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



# Station Post Introduction

Victor Insulators, Inc. manufactures the widest product line of any domestic insulator manufacturer. An important part of this product line is station post insulators, which we design and manufacture for the utility and OEM markets.

We have steadily improved and expanded production of our station post insulators. They are now competitive in scope with all other manufacturers, and offer unique benefits not available from other manufacturers.

By taking advantage of manufacturing capabilities unique to Victor Insulators, Inc., we have totally redesigned our products improving their mechanical and electrical characteristics, and thus improving their performance.



## **ALUMINA PORCELAIN A MATERIAL DIFFERENCE**

Victor Insulators, Inc. is the only domestic insulator manufacturer to use alumina porcelain across the entire station post line. We use alumina porcelain in our station post products because its properties are far superior to conventional porcelains used by other manufacturers.

Victor developed alumina porcelain for use in station posts many years ago. Our ceramic engineers have further refined this material through an extensive research program partially funded by the Electric Power Research Institute (EPRI).

Today, the alumina porcelain used by Victor in the manufacturing of station post insulators is of the highest quality. Alumina porcelain uses alumina (aluminum oxide) in the porcelain formulation in place of silica. Alumina is one of the strongest, hardest materials known and its use results in a porcelain:

- twice as strong, pound for pound (modulus of rupture), as silica porcelain
- with a greater resistance to thermal shock than silica porcelain
- with much higher impact resistance than silica porcelain (about twice as strong)



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



# Station Post Introduction

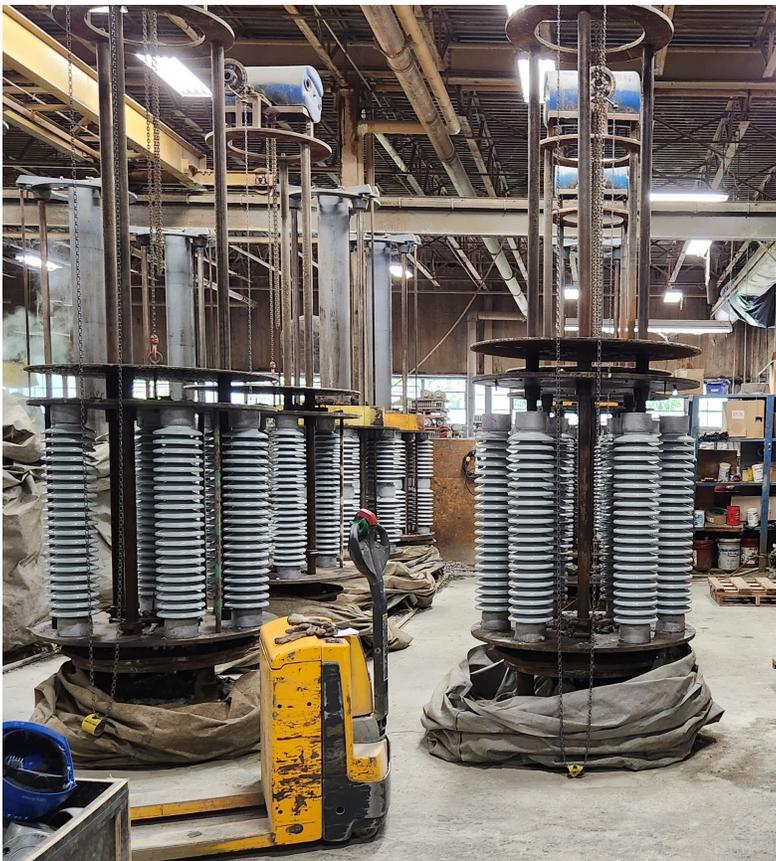
## THE MANUFACTURING PROCESS

The station post insulator is a wet process porcelain element of variable length, with hardware components attached to the end of the porcelain. The hardware serves to attach the Insulator to the supporting structure and the current carrying device.

The hardware is attached with neat Portland cement. A gripping surface is formed on the porcelain by firing a specially prepared porcelain sand-glaze mixture on the insulator. This forms an excellent gripping surface, which is technically strong, chemically inert to the cement and has the same thermal expansion characteristics as the porcelain itself.

A resilient asphaltic coating is applied to the inside surfaces of the end fittings, to a controlled thickness. This coating ensures that there will be no adverse chemical reactions between the cement and the ferrous fitting.

The coating provides a flexible interface between the cement and the hardware to allow for differences in thermal expansion coefficient and to aid in giving an even distribution of mechanical and thermal stresses. This maximizes the strength of the porcelain section under load.



The porcelain section is then assembled to the end fittings in rigid, engineered assembly fixtures, which hold the end surfaces of the hardware parallel and axially in line and maintain alignment of the bolt holes. The cement is cured under steam to achieve optimum properties.

Each fully cured, assembled insulator is passed through a rigorous mechanical test at 50% of its bending-moment rating to ensure that it can withstand the maximum recommended working load.

All tapped holes are cleaned and filled with rust preventative prior to shipment. Special plugging of holes is available upon request. Bolts required for assembly of the stack are placed in the crate containing the insulator. All insulators are shipped on pallets or in special crates designed for handling by fork lifts or overhead cranes.



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



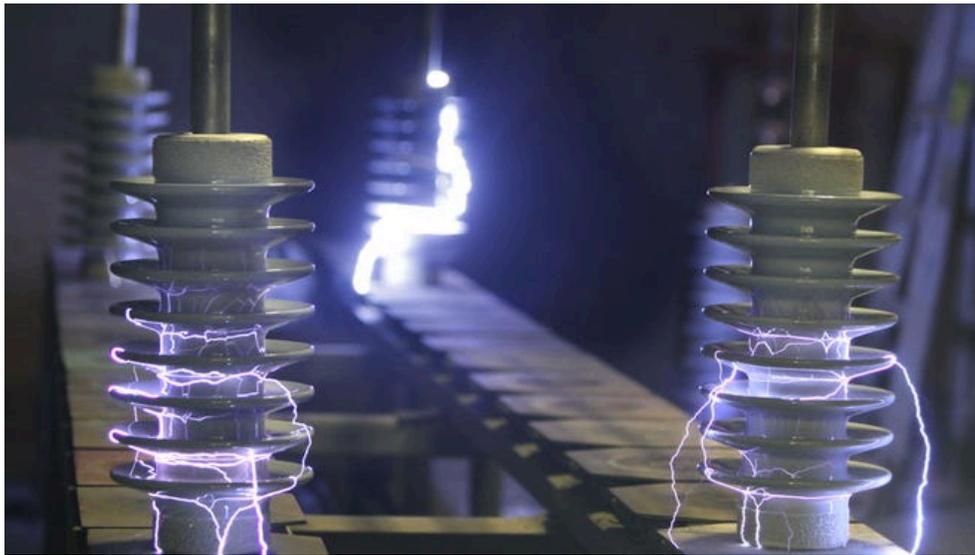
# Station Post Testing

## TESTING ASSURES QUALITY

Victor Insulators is totally committed to quality. Part of that commitment is demonstrated by the careful routine inspection and test programs that are carried out on each and every station post insulator during production and prior to shipping. Among these tests are:

- statistical process control during shaping and forming operations
- visual, dimensional and electrical tests on fired porcelain
- routine mechanical tests on each assembled insulator (either four-way cantilever or uniform bending moment, depending on voltage class)
- gauging of each assembled insulator to ensure proper length and alignment of end fittings

We also subject the entire production to quality conformance testing on a continuous basis. Insulators randomly withdrawn from production are subjected to the complete series of conformance tests as specified in ANSI C29. These tests include galvanizing thickness, gauging bolt circles, gauging tapped holes, complete dimensional analysis and cantilever, tension and torsion tests. Results are compiled in a statistical data base for monitoring of product characteristics and for ready review by customers. Special tests are also performed either as requested by customers or in order to fully test all characteristics of the products. Among these tests are cantilever deflection and cyclic cantilever loading to ensure integrity of end fittings.



## OUR BEST TO YOU

Victor Insulators, Inc. is committed to providing the best products and best service to our customers. We pride ourselves on the quality of our station post products, the wide scope of our product line and its superior in-service performance. As a privately-owned American company, our goal is to manufacture products that are of world-class quality. We believe we have achieved that goal in the design and manufacture of these station post insulators.



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



# Station Posts (7.5kV - 69kV)

*Guaranteed lifetime performance*

- Exceeds ANSI/NEMA electrical and mechanical requirements
- High strength alumina and silica porcelain
- Proven performance for over 100 years
- Worldwide sales and local support
- Portland cement for hardware
- Manufactured and tested in Victor, NY USA



## Full ANSI C29.9 Station Post Product Line



USA Cat. No.	Import Cat. No.	TR No.	Voltage Rating (kV)	Height (in.)	BIL	Cantilever Strength
Standard Strength (7.5kV - 69kV)						
1750	1750I	202	7.5	7.5	95	2000
1751	1751I	205	15	10	110	2000
1752	1752I	208	23	14	150	2000
1753	1753I	210	34.5	18	200	2000
1754	1754I	214	46	22	250	2000
1755	1755I	216	69	30	350	1500
High Strength (7.5kV - 69kV)						
1766	1766I	222	7.5	10	95	4000
1767	1767I	225	15	12	110	4000
1768	1768I	227	23	15	150	4000
1763	1763I	231	34.5	20	200	4000
1764	1764I	267	46	24	250	4000
1765	1765I	278	69	30	300	3000

*For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)*



## VICTOR INSULATORS, INC.

The original insulator manufacturer in North America



# Station Posts (115kV-230kV)

Guaranteed lifetime performance

- Exceeds ANSI/NEMA electrical and mechanical requirements
- High strength alumina and silica porcelain
- Proven performance for over 100 years
- Worldwide sales and local support
- Portland cement for hardware
- Manufactured and tested in Victor, NY USA

## Full ANSI C29.9 Station Post Product Line



USA Cat. No.	Import Cat. No.	TR No.	Voltage Rating (kV)	Height (in.)	BIL	Cantilever Strength
Standard Strength (115kV - 230kV)						
17PA20	1720	286	115	45	550	1700
17PA21	1721	288	138	54	650	1450
17PA22	1722	291	161	62	750	1200
17PA23	1723	304	230	80	900	950
17PA24	1724	312	230	92	1050	800
High Strength (115kV - 230kV)						
17PA25	1725	287	115	45	550	2600
17PA26	1726	289	138	54	650	2200
17PA27	1727	295	161	62	750	1850
17PA28	1728	308	230	80	900	1450
17PA29	1729	316	230	92	1050	1250

For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)



# VICTOR INSULATORS, INC.

The original insulator manufacturer in North America



# Station Posts (345kV - 500kV)

Guaranteed lifetime performance

- Exceeds ANSI/NEMA electrical and mechanical requirements
- High strength alumina and silica porcelain
- Proven performance for over 100 years
- Worldwide sales and local support
- Portland cement for hardware
- Manufactured and tested in Victor, NY USA



## Full ANSI C29.9 Station Post Product Line



USA Cat. No.	Import Cat. No.	TR No.	Voltage Rating (kV)	Height (in.)	BIL	Cantilever Strength
Extra High Voltage (345kV - 765kV)						
16PT00	1600S	324	345	106	1300	1000
16PT01	1601S	367	345	106	1300	1450
16PT02	1602S	368	345	106	1300	2000
16PT03	1603S	369	345	106	1300	2020
16PT04	1604S	-	345	106	1300	1000
16PA10	1610S	330	500	122	1470	900
16PA11	1611S	371	500	122	1470	1170
16PA12	1612S	372	500	122	1470	1750
16PA13	1613S	373	500	122	1470	1750
16PA20	1620S	379	500	128	1550	1700
16PA30	1630S	391	500	152	1800	1400
N/A	3074	N/A	765	185	2050	2000

For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)



# VICTOR INSULATORS, INC.

The original insulator manufacturer in North America



# Cap and Pin Replacements

*Guaranteed lifetime performance*

- Exceeds ANSI/NEMA electrical and mechanical requirements
- High strength alumina and silica porcelain
- Proven performance for over 100 years
- Replacements are correct height, bolt circle, and mounting configurations
- Portland cement for hardware
- Manufactured and tested in Victor, NY USA



## Full ANSI C29.9 Product Line

Cat. No.	TR No.	Height (in.)	BC (in.)	Cantilever (lbs.)	App. kV*	BIL	Base Design
1544	4	10	3	2000	15	110	Pedestal
1689	7	12	3	2000	15/23	150	Pedestal
1748	7	12	3	2000	15/23	150	Cap
1598	10	15	3	2000	34.5	200	Pedestal
1746	10	15	3	2000	34.5	200	Cap
1502	13	18	3	2000	46	250	Pedestal
1747	13	18	3	2000	46	250	Cap
1589	16	29	3	1500	69	350	Pedestal
1769	16	29	3	1500	69	350	Cap
15PA32	19	43.5	5	1700	115	550	Pedestal
15PA34	22	49	5	1450	138	650	Pedestal
15PA30	25	58	5	1200	161	750	Cap
1536	25	58	5	1200	161	750	Pedestal
1599	44	10	5	4000	15	110	Pedestal
1696	46	12	5	4000	15/23	150	Pedestal
1529	49	15	5	4000	34.5	200	Pedestal
1543	53	20	5	4000	46	250	Pedestal
1548	56	29	5	3000	69	350	Pedestal
1590	56	29	5	2700	69	350	Pedestal
1770	56	29	5	3000	69	350	Cap
15PA39	123	58	5	2000	138	750	Pedestal
15PA40	126	72.5	5	950	230	900	Pedestal
15PA41	128	87	5	750	230	1050	Pedestal
1587	164	14.5	5	3000	23	150	Pedestal
15PA33	167	43.5	3	1700	115	550	Pedestal
1537	168	58	3	1200	161	750	Pedestal
1535	170	54	3	1450	138	650	Pedestal
1546	173	43.5	5	2900	115	550	Cap
1623	173	43.5	5	2900	115	550	Pedestal
15PA39	174	58	5	2000	138	750	Pedestal
15PA38	175	72.5	5	1450	230	900	Pedestal
14PA49	176	87	5	1170	230	1050	Pedestal



# VICTOR INSULATORS, INC.

The original insulator manufacturer in North America



# OEM Switch ANSI Standard Designs

*Guaranteed lifetime performance*

- Exceeds ANSI/NEMA electrical and mechanical requirements
- High strength alumina and silica porcelain
- Proven performance for over 100 years
- Designed for in line switches and distribution switches
- Ferrous hardware
- Manufactured and tested in Victor, NY USA



## ANSI C29.9 Product Line



Cat. No.	Studs	Height (in.)	BIL	Cantilever (lbs.)	Qty per Pallet
1737	90 degrees	6 3/4	95	1200	140
1737-31	In line	6 3/4	95	1200	140
1738	90 degrees	8	110	1000	140
1738-31	In line	8	110	1000	140
1736	90 degrees	9	125	900	105
1736-31	In line	9	125	900	105
1739	90 degrees	10	150	800	105
1739-31	In line	10	150	800	105
1735	90 degrees	11	150	475	105
1735-31	In line	11	150	475	105



## VICTOR INSULATORS, INC.

The original insulator manufacturer in North America



# Indoor Bus Supports

*Guaranteed lifetime performance*

## **PRODUCT LINE**

Victor manufactures NEMA Class A indoor bus supports and back-connect bushings for use in apparatus used to control the generation, transmission and distribution of electrical energy.

## **PRODUCT FEATURES**

*The indoor bus supports are available with standard ANSI-NEMA bolt patterns Victor recognizes, however, that many other combinations are used in the industry and provides a large variety of combinations. These insulators are designed, manufactured and tested accordance with ANSI standard C29.10.*

*A call to our local representative in your area, or to the factory, will get you information on the availability of designs not illustrated here. Each insulator is subjected to electrical proof testing both prior to and after assembly. This extra test assures the user extra confidence in the quality of Victor's products.*

*The control applications where these insulators are used are critical and thus Victor designs, manufactures, and tests each insulator to provide the maximum possible electrical and mechanical strength.*

*A-10 and A-20 Bus Supports are assembled using sulfur cement with aggregate to prevent loose inserts.*

<b>Class A Indoor Bus Supports</b>			
<b>Product Features</b>	<b>Usage</b>	<b>Design Parameters</b>	<b>Benefits</b>
Optional Bolt Patterns	Indoor Bus Supports	Hole sizes & locations can be customized upon request	Permits optimum design of equipment
Thick Porcelain Sections	All Designs	Careful dimensioning to resist electrical & mechanical stresses	Resists damage, gives longer and more reliable service
NEMA-ANSI Ratings	All Designs	Electrical & mechanical ratings in conformance with ANSI-NEMA requirements	Reliable performance, easy selection of appropriate design
Factory Testing	All Designs	Rigorous electrical flashover tests performed on all units before and after assembly	Ensures that the highest quality products are shipped



**VICTOR INSULATORS, INC.**

**The original insulator manufacturer in North America**



# Indoor Bus Supports

*Guaranteed lifetime performance*

- Exceeds ANSI/NEMA electrical and mechanical requirements
- Classes A-10, A-20, and A-30
- Do not BURN or MELT
- Proven performance for over 100 years
- Standard bolt patterns
- The only U.S. manufacturer of indoor bus supports
- Made in Victor, NY USA

## Full ANSI C29.10 Bus Product Line



Cat. No.	NEMA Class	Rating	Height (in.)	BIL	Cantilever Strength
5651	A-10	4.8	3.5	60	750
5652	A-10	7.2	4.5	70	750
5750	A-20	4.8	3.5	60	1000
5751	A-20	7.2	4.5	75	1500
5752	A-20	13.2	6	95	1250
5753	A-20	14.4	7.5	110	1000
5850-33	A-30	4.8	3.5	60	2000
5851-35	A-30	7.2	4.5	75	3000
5852-33	A-30	13.2	6	95	2500
5853-32	A-30	14.4	7.5	110	2000
5854-33	A-30	23	10.5	150	1500
5855-34	A-30	34.5	15	200	1250

*For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)*



## VICTOR INSULATORS, INC.

The original insulator manufacturer in North America



# Transit/Rail Insulators

*Guaranteed lifetime performance*

- Specialize to fit any rail system
- Nano Coating for faster cleaning
- Do not BURN or MELT
- Proven performance for over 100 years
- Low profile, free from obstruction
- The only U.S. manufacturer of rail insulators
- Made in Victor, NY USA



Cat. No.	Type	M&E Strength	Height
26858	V' #T' k	V °	
	u k	N/A	5.69"
	Amtrak Type "L"	7,600	4.1"
†@	Amtrak Type "A2"	36,000	7"
†@ =	Amtrak Type "B1"	20,000	5.75"
	Amtrak Type "C"	Special	6.53"
	Amtrak Type "2T"	3,000	14.5"
	Amtrak Type "3T"	2,000	21.75"



## VICTOR INSULATORS, INC.

The original insulator manufacturer in North America



# Polymer Insulators Introduction

Polymer insulators are significantly lighter than porcelain or glass insulators of the same voltage rating. This makes them easier to handle during installation and maintenance. The fiberglass rod used in polymer insulators give them high mechanical strength, allowing them to withstand the mechanical stresses imposed by wind, ice, and other environmental factors. Polymer insulators provide effective electrical insulation, preventing current leakage and flashovers even in challenging weather conditions. They have a high resistance to electrical tracking and arcing. Unlike porcelain insulators, polymer insulators are not susceptible to corrosion, making them suitable for use in harsh environments, such as coastal areas with high salt content in the air.

Polymer insulators have a hydrophobic surface, which means they repel water. This property helps prevent the accumulation of contaminants and pollutants on the insulator's surface, reducing the risk of flashovers. The smooth surface of polymer insulators is easy to clean, and they often require less maintenance compared to porcelain insulators. Polymer transmission insulators have become a popular choice for many electrical utilities due to their durability, lightweight nature, and resistance to environmental factors.



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



# Polymer Distribution Insulators

Polymer distribution insulators come in various designs to suit different applications within power distribution systems. Here are a few specific types of polymer distribution insulators:

**Deadend Insulators:** Deadend insulators are used at the ends of overhead power lines to terminate the conductor and provide insulation and support. They prevent the power line from continuing beyond a specific point. These insulators are essential for securing the conductor and ensuring electrical isolation.

**Line Posts Insulators:** Line post insulators are used to support power lines along their length. They are typically mounted on crossarms, brackets, or other structures and help maintain the conductor's distance from the ground and other objects. Line post insulators are commonly used in distribution and sub transmission lines.

**Vertical Posts Insulators:** Vertical post insulators, also known as suspension insulators, are designed to hang the power line conductors vertically. They provide both mechanical support and electrical insulation. These insulators are often used in transmission lines to handle the weight of long spans of conductors.

**Universal Clamp Posts:** Universal clamp post insulators are versatile insulators that can serve multiple purposes, such as providing support for conductors, acting as line spacers, or serving as deadend terminations. They are designed to accommodate various hardware and mounting configurations, making them suitable for different line applications.



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



# Polymer Deadends

*Guaranteed lifetime performance*

- Durable
- Reliable
- Lightweight
- Superior over molded design
- Hot Dip Galvanized hardware
- Exceeds ANSI electrical and mechanical requirements
- Resistant to impact and handling damage and vandalism

**Tested in  
accordance with  
ANSI C29.18**



Cat. No.	ANSI Class	Voltage	Mechanical Load (lbs.)	Number of Sheds
8215	DS-15	15kV	15,000	4
8225	DS-28	25kV	15,000	7
8235	DS-35	35kV	15,000	9
8246	DS-46	46kV	15,000	12

*\*For higher mechanical loads, please ask your local representative RUS Accepted  
For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)*



**VICTOR INSULATORS, INC.**  
The original insulator manufacturer in North America



# Polymer Line Posts

*Guaranteed lifetime performance*

- Lightweight
- High Mechanical Strength
- Resistance to Pollution
- Easy Installation
- Hot Dip Galvanized hardware
- Exceeds ANSI electrical and mechanical requirements
- Resistant to impact and handling damage and vandalism
- Many configurations available

## Tested in accordance with ANSI C29.18



Cat. No.	ANSI Class	Voltage	Cantilever Load SCL (lbs.)	Number of Sheds
VI 51-1F	51-1F	15kV	2,800	3
VI 51-2F	51-2F	25kV	2,800	7
VI 51-3F	51-3F	35kV	2,800	9
VI 51-4F	51-4F	46kV	2,800	12

*\*For more choices, please contact your local rep*



**VICTOR INSULATORS, INC.**  
The original insulator manufacturer in North America



# Polymer Universal Clamp Line Post

*Guaranteed lifetime performance*

- Durable
- Reliable
- Lightweight
- Superior over molded design
- Hot Dip Galvanized hardware
- Exceeds ANSI electrical and mechanical requirements
- Aluminum Clamp accomodates a full range of conductor sizes: .20" to 1.34"

**Tested in  
accordance with  
ANSI C29.18**



Cat. No.	ANSI Class	Voltage	Cantilever Load SLC (lbs.)	Number of Sheds
VI 15U	51-1C/F, 51-11, 51-21, 51-31	15kV	2800	2
VI 25U	51-2C/F, 51-12, 51-22, 51-31	25kV	2800	3
VI 35U	51-3C/F, 51-13, 51-23, 51-33	35kV	2800	4

*\* For more choices, please ask your local representative RUS Accepted  
For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)*



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



# Polymer Station Posts

*Guaranteed lifetime performance*

Polymer station posts are used for various applications within substations to support and insulate electrical equipment and conductors. These posts offer several advantages over traditional materials like porcelain or glass, including lightweight construction, high mechanical strength, resistance to environmental factors, and improved performance.

Some of the key features of polymer station posts are:

- **Lightweight:** Polymer posts are significantly lighter than their porcelain or glass counterparts, making them easier to transport, install, and handle.
- **High Mechanical Strength:** They have high mechanical strength, which allows them to withstand various mechanical stresses, such as wind loads and vibrations, without breaking.
- **Corrosion Resistance:** Polymer insulators are resistant to environmental factors like moisture and UV radiation, reducing the risk of degradation over time.
- **Improved Pollution Performance:** They exhibit excellent pollution performance, making them suitable for substations located in polluted or coastal areas.
- **Low Maintenance:** Polymer posts require minimal maintenance compared to traditional materials, reducing overall operational costs.
- **Long Service Life:** These insulators can have a long service life, which can be an advantage in critical electrical infrastructure.
- **Versatility:** Polymer insulators come in various shapes and sizes, making them adaptable for different applications within the substation.



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



# Polymer Station Posts

*Guaranteed lifetime performance*

- Steel zinc plated inserts
- Copper or brass inserts available
- Made from cycloaliphatic epoxy compounds and non-tracking materials
- Reduces maintenance
- Energy efficient
- Light weight
- Improves reliability



## ANSI C29.19 Standards

Cat. No.	TR No.	Voltage Rating (kV)	Height (in.)	BIL	Cantilever Strength
PSP-205P	205	15	10	95	2000
PSP-208P	208	23	14	150	2000
PSP-210P	210	34.5	18	200	2000
PSP-214P	214	46	22	250	2000
PSP-216P	216	69	30	350	1500
PSP-278P	278	69	30	350	3000
PSP-286P	286	115	45	550	1700
PSP-287P	287	115	45	550	2600
PSP-288P	288	138	54	650	1400
PSP-289P	289	138	54	650	2200
PSP-291P	291	161	62	750	1200
PSP-304P	304	230	80	900	950
PSP-308P	308	230	80	900	1450

*\*\*Contact local rep for other configurations  
For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)*



# VICTOR INSULATORS, INC.

The original insulator manufacturer in North America



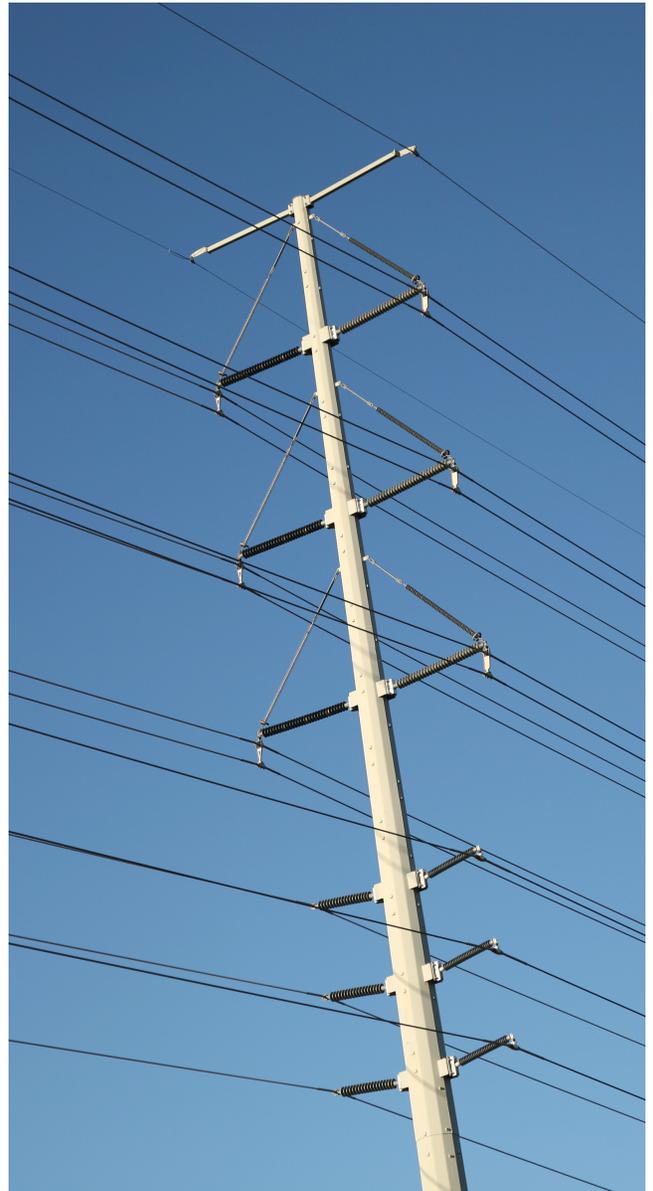
# Polymer Transmission

*Guaranteed lifetime performance*

Polymer transmission insulators are a type of electrical insulator used in high-voltage transmission and distribution systems to support and insulate overhead power lines. These insulators are made from polymer materials, typically reinforced with fiberglass or other strengthening components, and they offer several advantages over traditional porcelain or glass insulators.

Some the key features of polymer station posts are:

- **Lightweight**: Polymer insulators are significantly lighter than porcelain or glass insulators of the same voltage rating. This makes them easier to handle during installation and maintenance.
- **High Strength**: The fiberglass or other reinforcing materials used in polymer insulators give them high mechanical strength, allowing them to withstand the mechanical stresses imposed by wind, ice, and other environmental factors.
- **Corrosion Resistance**: Unlike porcelain insulators, polymer insulators are not susceptible to corrosion, making them suitable for use in harsh environments, such as coastal areas with high salt content in the air.
- **Hydrophobic Properties**: Most polymer insulators have a hydrophobic surface, which means they repel water. This property helps prevent the accumulation of contaminants and pollutants on the insulator's surface, reducing the risk of flashovers.
- **Customizable Design**: Manufacturers can tailor the design and color of polymer insulators to meet specific aesthetic and environmental requirements.



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



# Polymer Transmission Insulators Catalog Number Keys

*Guaranteed lifetime performance*

1. Insulator Type		2. Mechanical Strength	
T = Suspension HP = Horizontal Line Post VP = Vertical Line Post G = Guy Strain		<i>Suspension/Guy Strain</i> SML (kN)	
		<i>Line Post</i> Rod diameter (mm)	
<i>Rounded to nearest unit</i>			
3. Tower End Fittings			
<i>Suspension</i>	<i>Guy Strain</i>	<i>Line Post</i>	
Y = Y-Clevis C = Clevis B = Ball E = Oval-Eye T = Tongue S = Socket	C = Clevis CR = Clevis w/roller TE = Thimble Eye T = Eye/ Tongue	A = Cast curved B = Cast Flat C = Stud Base D = Bendable Gain Base F = Bendable Flat Base	
4. Line End Fittings			
<i>Suspension</i>	<i>Guy Strain</i>	<i>Line Post</i>	
Y = Y-Clevis C = Clevis B = Ball E = Oval-Eye T = Tongue S = Socket	C = Clevis CR = Clevis w/roller TE = Thimble Eye T = Eye/ Tongue	A = Drop Tongue B = Extended Drop Tongue D = Horizontal Trunnion E = Vertical Trunnion F = F-neck UY = Universal Clamp	
5. Leakage		6. Length	
Rounded to nearest mm		Rounded to nearest mm	
7. Corona Rings or Coating			
<i>Suspension</i>	<i>Guy Strain</i>	<i>Line Post</i>	
AA = no ring LA = line end ring only AG = ground end ring only LG = line and ground end rings	AA = no coating SC = Silicone Coating	XX = no ring LX = line end ring only XG = ground end ring only LG = line and ground end rings	



**VICTOR INSULATORS, INC.**

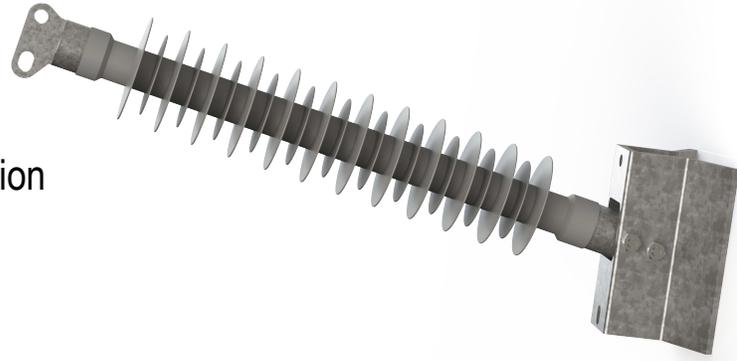
The original insulator manufacturer in North America



# Polymer Line Posts

*Guaranteed lifetime performance*

- Exceeds ANSI and IEC electrical and mechanical requirements
- Made with high quality hydrophobic silicone polymer
- Lightweight for easy installation
- Field tested and proven performance
- Does not shatter, impact resistant
- Monolithic silicone coating, protects against pollution
- Many configurations available
- Up to 4.7" (120mm) rod diameter available



## ANSI C29.17 Line Post Product Line

Voltage (kV)	Catalog No.	Section Length inches (mm)	Leakage Distance inches (mm)	SCL lbs. (kN)	60 HZ Dry Flashover	60 HZ Wet Flashover	Critical Impulse Flashover	Critical Impulse Flashover
					(kV)	(kV)	Pos. (kV)	Neg. (kV)
69 115 138 161 230 345								
	HP-68DA-909-2280-XX	35.7 (909)	89.7 (2280)	3597 (16)	280	255	425	540
	HP-68DD-916-2280-XX	36.0 (916)	89.7 (2280)	3597 (16)	280	255	425	540
	HP-63DB-1044-2600-XX	41.10 (1044)	102.3 (2600)	2502 (11.1)	280	255	425	540
	HP-70DD-1137-2480-XX	44.76 (1137)	97.64 (2480)	4271 (19)	330	300	510	615
	HP-68SA-1218-3000-XX	47.9 (1218)	118.1 (3000)	2248 (10)	385	320	605	635
	HP-68DB-1457-4300-XX	57.3 (1457)	169.2 (4300)	2248 (10)	450	400	750	800
	HP-70DA-1478-3590-XX	58.1 (1478)	141.3 (3590)	3035 (13.5)	485	425	735	840
	HP-70DD-1514-3820-XX	59.6 (1514)	150.3 (3820)	2923 (13)	515	450	770	880
	HP-63DB-1600-4360-XX	62.9 (1600)	171.6 (4360)	2810 (12.5)	440	385	675	785
	HP-70DD-1626-3353-XX	64 (1626)	132 (3353)	2547 (11.3)	515	450	770	880
	HP-70SA-2413-6820-XX	95 (2413)	268.5 (6820)	1574 (7)	850	780	1330	1430
	HP-90DA-2458-6850-XX	96.7 (2458)	269.6 (6850)	2923 (13)	860	790	1350	1445
	HP-90FA-2895-8440-XX	113.9 (2895)	332.2 (8440)	1798 (8)	901	803	1586	1599
	HP-90FA-2690-7870-LX	105.9 (2690)	309.8 (7870)	2001 (8.9)	830	790	1050	1360
	HP-70SA-2923-8670-LX	115 (2923)	341.3 (8670)	899 (4)	1065	980	1670	1770
	HP-70DA-2982-8740-XX	117.4 (2982)	344 (8740)	1394 (6.2)	1060	860	1685	1770

**\*\*Contact local rep for insulators over 345kV or other configurations**  
 For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)



**VICTOR INSULATORS, INC.**

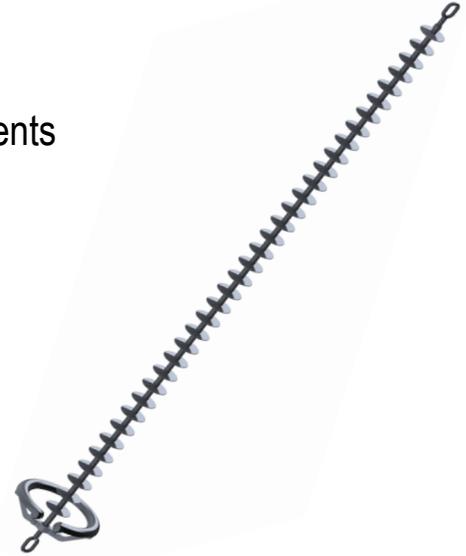
The original insulator manufacturer in North America



# Polymer Suspensions

*Guaranteed lifetime performance*

- Exceeds ANSI and IEC electrical and mechanical requirements
- Made with high quality hydrophobic silicone polymer
- Lightweight for easy installation
- Field tested and proven performance
- Does not shatter, impact resistant
- Monolithic silicone coating, protects against pollution
- Up to 51 foot (15.6 meter) insulators available!



## ANSI C29.12 Suspension Product Line

Voltage (kV)	Catalog No.	Section Length inches (mm)	Leakage Distance inches (mm)	SML lbs. (kN)	60-HZ Dry Flashover	60-HZ Wet Flashover	CIFO Pos	CIFO Neg
					(kV)	(kV)	(kV)	(kV)
69 115 138 161 230 345	T120-YB-871-1600-AA	34.29 (871)	62.99 (1600)	25K (120)	245	240	390	410
	T112-YB-947-2100-AA	37.28 (947)	82.68 (2100)	25K (112)	269	243	468	503
	T112-YB-1181-2890-AA	46.50 (1181)	113.78 (2890)	25K (112)	355	210	535	565
	T112-YB-1224-2629-AA	48.19 (1224)	103.5 (2629)	25K (112)	382	346	662	705
	T134-YB-1420-3500-AA	55.91 (1420)	137.80 (3500)	30K (134)	385	320	605	635
	T111-YE-1567-3560-AA	61.69 (1567)	140.16 (3560)	25K (111)	497	443	549	898
	T111-YB-1654-4200-AA	65.12 (1654)	165.35 (3700)	25K (111)	535	505	870	870
	T134-YB-1677-3700-AA	66.02 (1677)	145.67 (3700)	30K (134)	555	491	942	994
	T222-YB-1741-3455-AA	68.54 (1741)	136.02 (3455)	50K (222)	545	505	805	820
	T111-EE-2039-5290-AA	80.28 (2039)	208.27 (5290)	25K (111)	635	680	950	970
	T112-BS-2044-3960-AG	80.47 (2044)	155.91 (3960)	25K (112)	670	580	1105	1105
	T111-EE-2340-6470-LA	92.13 (2340)	254.72 (2020)	25K (111)	480	420	1050	1200
	T133-YB-2780-6112-LA	109.45 (2780)	240.63 (6112)	30K (133)	780	750	1442	1481
	T222-SB-2713-7112-LG	106.81 (2731)	280 (7112)	50K (222)	830	790	1292	1360
	T222-SB-3227-9670-LG	127.05 (3227)	380.71 (9670)	25K (111)	925	1015	1725	1755
	T223-YB-3675-11050-LG	144.69 (3675)	435.04 (11050)	50K (223)	1115	1000	1900	2005

*\*\*Contact local rep for insulators over 345kV or other configurations  
For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)*



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



# Polymer Guy Strains

*Guaranteed lifetime performance*

- Lightweight for easy installation
- Field tested and proven performance
- Does not shatter, impact resistant
- Silicone coating provides greater protection
- Many configurations available



## Polymer Guy Strain Product Line

SML lbs (kN)	Catalog No.	Section Length inches (mm)	Insulated Length inches (mm)	Hardware	Hardware
15K (67)	G66-CRC-2235-1981-SC	88 (2235)	78 (1981)	Clevis	Clevis w/roller
15K (70)	G70-TECR-541-271-AA	21.3 (541)	10.67 (271)	Thimble Eye	Clevis w/roller
21K (100)	G100-CRCR-1679-1370-SC	66.1 (1679)	53.94 (1370)	Clevis w/roller	Clevis w/roller
21K (100)	G100-TT-466-284-AA	18.35 (466)	11.18 (284)	Eye	Eye
27K (120)	G120-CRCR-2220-1981-SC	8.66 (2220)	78 (1981)	Clevis w/roller	Clevis w/roller
30K (134)	G134-CRCR-1220-914-AA	48.03 (1220)	35.98 (914)	Clevis w/roller	Clevis w/roller
30K (134)	G134-CC-2311-2049-SC	90.98 (2311)	80.67 (2049)	Clevis	Clevis
30K (134)	G134-CCR-2311-2004-SC	90.98 (2311)	78.90 (2004)	Clevis	Clevis w/roller

*For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com) or contact your local representative*



# VICTOR INSULATORS, INC.

The original insulator manufacturer in North America



# Polymer Braced Post

*Guaranteed lifetime performance*

- Increased strength capacity compared to line post alone
- Reduces ROW compared to suspension insulator alone
- Made with high quality hydrophobic silicone polymer
- Lightweight
- Easy installation
- Customizable; size, shape, and bracing arrangements
- Monolithic silicone coating, protects against pollution
- Customized configurations and other assembly types available



Type	Post Section Length (mm)	Leakage (mm)	Tower End fitting	Line End fitting
<b>BP</b>	<b>2432</b>	<b>6670</b>	<b>D</b>	<b>A</b>
BP = Braced Post	Rounded to nearest mm	Rounded to nearest mm	A = Cast curved B = Cast Flat C = Stud Base D = Bendable Gain Base F = Bendable Flat Base	A = Drop Tongue B = Extended Drop Tongue SP = Special Fitting

Voltage (kV)	Catalog No.	Insulators		Post length inches (mm)	Suspension length inches (mm)	Pole hole spacing inches (mm)	Maximum Vertical Load lbs (kN)
		Line Post	Suspension				
69 115 138 161 230							
	BP-1142-2200-DA	HP-70DA-1142-2200-XX	T120-1350-2200-AA	44.96 (1142)	53.15 (1350)	56.7 (1440)	11,100 (49)
	BP-1420-3540-FA	HP-70FA-1420-3540-XX	T120-EE-1875-4930-AA	55.9 (1420)	73.8 (1875)	74 (1880)	11,130 (49.4)
	BP-1500-3800-FA	HP-70FA-1500-3800-XX	T120-YS-1605-4250-LA	59.05 (1500)	63.19 (1605)	62.6 (1590)	11,330 (50.4)
	BP-1619-4284-DA	HP-70DA-1619-4290-XX	T111-YB-1853-5150-LA	63.7 (16.19)	73 (1853)	78 (1981)	9,930 (44)
	BP-2362-6426-FA	HP-64FA-2362-6426-XX	T111-YB-2710-7925-LA	93 (2362.2)	106.6 (2710)	151 (3835.4)	9500 (42.7)
	BP-2450-7115-DA	HP-70DA-2450-7115-XX	T120-EE-3410-10080-LA	96.5 (2450)	134.3 (3410)	127 (3226)	11,280 (50.1)

**\*\*Contact local rep for other assembly types, different Braced Post configurations and for assemblies over 345 kV For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)**



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



# Porcelain & Glass Suspensions

*Guaranteed lifetime performance*

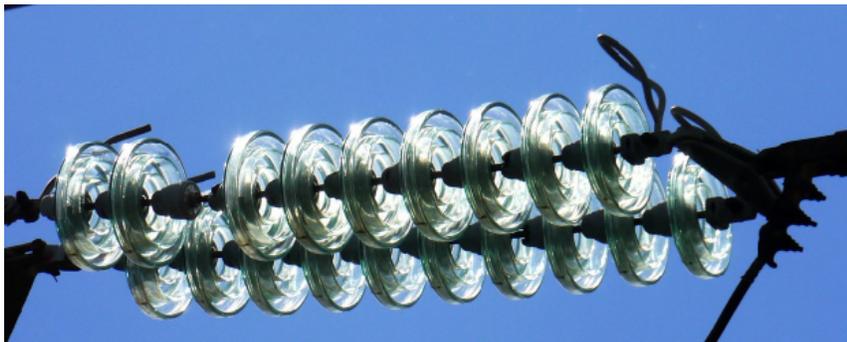
Porcelain suspension insulators or porcelain string insulators, are critical components used in high-voltage electrical transmission and distribution systems. These insulators play a crucial role in isolating power lines and other electrical equipment from the supporting structures (such as towers and poles) to prevent electrical leakage and ensure the safe and reliable operation of the electrical grid. Here are some key points about these insulators:



- Material - Porcelain for its high mechanical strength
- Color - ANSI Gray, Cobalt blue, brown, and slate gray
- Voltage - Used in higher kV transmission lines
- Environmental Resistance - Glazed to protect from factors such as moisture, pollution, & contamination

Glass suspension insulators are typically made of toughened or tempered glass. The glass is chosen for its high dielectric strength, which means it can withstand high electrical voltages without allowing current to pass through it. These insulators have a distinctive design featuring multiple glass discs or shells stacked on top of each other and connected by metal or composite (often fiberglass) end fittings. The number of discs and their diameter varies depending on the voltage rating of the insulator. Here are some key points:

- Mechanical Support - very strong insulators to hold conductors in place
- Environmental Resistance - withstand rain, snow, ice, pollution and temp extremes
- Maintenance - periodic inspection is required
- Advantages to glass - on top of the mechanical strength, they are cost effective compared to other insulators



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



# Glass Suspensions

*Guaranteed lifetime performance*

- Exceeds ANSI, CSA, & IEC electrical and mechanical requirements
- Zero spontaneous shatter and easy in-service inspection
- Excellent arc-resistance and vibration-proof performance
- Environmental awareness - made from recyclable materials
- Self cleaning
- Silicone-coated insulators (RTV) available
- Standard profile & Anti-Pollution
- DC Designs available



## Full ANSI C29.2B Suspension Product Line

Cat. No.	ANSI Class	Type	Leakage Distance (in.)	M&E Strength (lbs.)	Impact Strength (in. lbs.)
VI 52-3HTG	52-3H	Ball & Socket	12 5/8	22,000	400
VI 52-5HTG	52-5H	Ball & Socket	12 5/8	30,000	400
VI 52-8HTG	52-8H	Ball & Socket	15 2/3	40,000	400
VI 52-11TG	52-11	Ball & Socket	15	50,000	400
VI 52-4HTG	52-4H	Clevis	12 5/8	20,000	400
VI 52-6HTG	52-6H	Clevis	12 5/8	30,000	400
VI 52-10HTG	52-10H	Clevis	15	40,000	400

*All insulators can be supplied with reinforced/extra galvanization, anti-corrosion zinc sleeve, and/or RTV silicone coating upon request.*

*For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)*



## VICTOR INSULATORS, INC.

The original insulator manufacturer in North America



# Porcelain Suspensions

*Guaranteed lifetime performance*

- Exceeds ANSI electrical and mechanical requirements
- Highly corrosion resistant
- Do not BURN or MELT
- Proven performance for over 100 years
- RUS Accepted
- The only U.S. manufacturer of porcelain distribution suspensions
- Resistant to electric field stress and corona



## Full ANSI C29.2 Suspension Product Line

Cat. No.	ANSI Class	RUS Accepted	Leakage Distance (in.)	M&E Strength (lbs.)	Impact Strength (in. lbs.)	Qty / Pallet
VI 52-3H	52-3H	-	12	20,000	90	144
VI 52-4H	52-4H	-	11.5	20,000	90	144
VI 52-5H	52-5H	-	12	30,000	90	144
VI 52-8H	52-8H	-	12.5	40,000	90	54
VI 52-10	52-10	-	11	40,000	90	54
VI 52-11	52-11	-	15	50,000	90	54
804/VI 52-1	52-1	Yes	7	10,000	45	288
817/VI 52-9	52-9	Yes	7	10,000	55	360
820	-	-	10.5	10,000	50	180
834	-	-	7	10,000	90	288

*For more details, please visit [www.victorinsulators.com](http://www.victorinsulators.com)*



# VICTOR INSULATORS, INC.

The original insulator manufacturer in North America



**Notes**



**VICTOR INSULATORS, INC.**

The original insulator manufacturer in North America



**Victor Insulators Inc.**

280 Maple Ave

Victor, NY 14564

USA

Phone: 585-924-2127

Fax: 585-924-7906