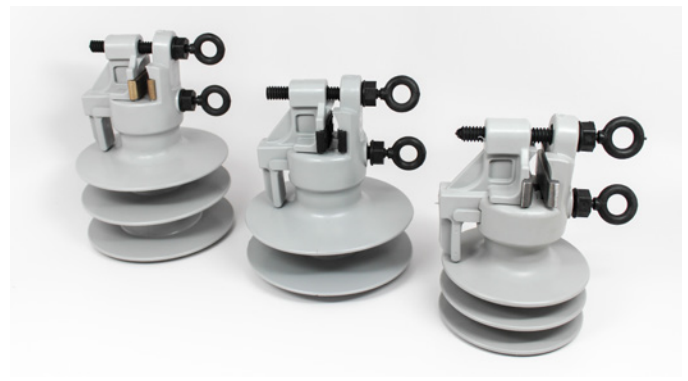


Polyethylene Pin Insulators – Vise Top

Hendrix Vise Top Insulators incorporate a clamping mechanism into the top of the insulator to provide quick and easy conductor installation without the need for additional tie products. When used with the VTST-1 Stringing Tool, conductors can be installed without separate stringing blocks, significantly reducing installation costs. Vise Top insulators are suitable for use with all conductor sizes and types: covered, aluminum, or copper conductors.

Vise Top Insulators are molded from a proprietary blend of gray, track-resistant, high-density polyethylene. They conform with the electrical and mechanical requirements of ANSI C29.5 and C29.6. Nominal voltage ratings are 15 kV, 25 kV, and 35 kV. They are designed to fit on standard 1" or 1 3/8" pins.

They are especially well suited for areas of vandalism. Ballistics tests have shown that even with damage from a rifle or shotgun, the insulators are still able to operate.



Benefits

- Quick and easy installation using two torque bolts
- Torque bolt rings break away at a predetermined torque to provide proper clamping force
- Insulator acts as a stringing block when used with the VTST-1 Stringing Tool
- Electrically compatible with all conductor types
- Resistant to impact damage, breakage, and vandalism
- Excellent weather washing characteristics
- Directly interchangeable with porcelain insulators
- Lightweight for easy handling
- Field installed since 1976
- Made in the USA

Application

Hendrix Vise Top Insulators are recommended for use with all conductor types, bare or covered. Vise Top Insulators are excellent for contaminated areas due to their long leakage distance and excellent washing characteristics.

There are three styles of Vise Top Insulators. Style #1 has plastic clamping inserts for use with either covered or bare conductors. Style #2 has aluminum clamping inserts for use with bare aluminum conductors. Style #3 has bronze clamping inserts for use with copper conductors.

When ordering, specify an "M" for aluminum inserts, a "P" for plastic inserts, and a "B" for bronze inserts (ex: HPI-25VTM; HPI-25VTP; HPI-25VTB).

To specify pin diameter, add the suffix -01 for 1" threads and -02 for 1 3/8" threads (ex: HPI-25VTM-02).



Vise Top with covered conductor and plastic/nylon clamping inserts

Vise Top with bare wire and aluminum or bronze clamping inserts

Polyethylene Pin Insulators – Vise Top

Electrical, Mechanical & Physical Data

	HPI-15VT	HPI-25VT-01	HPI-25VT-02	HPI-35VT-01	HPI-35VT-02
ANSI class	55-3 & 55-4	55-5	56-1	55-6	55-7
Insulator neck	C	F	F	F	F
Typical application, kV	15	25	25	35	35
Leakage distance, in.	15.8	15.8	15.7	22.3	22.2
Leakage distance, mm	401	401	399	566	564
Dry-arc distance, in.	8.1	9.3	9.3	11.1	11.1
Pinhole diameter, in. ⁽¹⁾	1	1	1.375	1	1.375
Cantilever strength, lbs. ⁽²⁾	>3,000	>3,000	>3,000	>3,000	>3,000
60 HZ dry flashover, kV	94	96	96	112	112
60 HZ wet flashover, kV	46	55	55	59	59
Positive impulse flashover, kV	141	153	153	172	172
Negative impulse flashover, kV	175	190	190	215	215
Low frequency puncture, kV	195	220	220	250	250
RIV @ 1MHz	10 kV to gnd, μ v				
	15 kV to gnd, μ v	<10	<10		
	22 kV to gnd, μ v			<10	<10
Dimensions, in.					
	A	8.25	8.5	8.5	10.25
	B	5.5	7.5	7.5	7.5
	C	3.875	3.75	3.75	5.5
	D	2.5	2.875	2.875	3
Max conductor, in.	1.75	1.75	1.75	1.75	1.75
Part weight, lbs.	2.0	2.6	2.6	3.2	3.2
Max continuous conductor operating temperature, °C	120	120	120	120	120

Always install the bottom bolt first and the top bolt second, Always breaking the eyes off the bolts

(1) = Additional pinhole diameters and thread configurations to meet international standards are available upon request

(2) = Cantilever strength refers to side neck loading

The Vise Top Insulator can accommodate conductors up to 1.75 inch diameter. Conductors should be mounted in the top saddle position for tangent construction and small angles. Large angles are better suited for the side/neck mounting position. Angles may be supported in the top saddle position provided the mounting pin strength is designed for the expected transverse loading. For all applications, good utility design practice should be followed, including design to National Electric Safety Code (NESC) and/or prevailing rules and codes.

