

Polyethylene Vise-Top Pin Insulators

Description:

Hendrix Vise-Top insulators are a labor saving alternative to Tie-Top insulators. When used with the VTST-1 Stringing Tool, conductors can be installed without separate stringing blocks. The built-in clamp secures the conductor in the top or side position, eliminating the need for tie wire. Vise-Top insulators are molded of proprietary gray, track resistant, high density polyethylene. They are ideal for use with covered conductors because the low dielectric constant of the polyethylene matches that of Hendrix and other polyethylene insulating compounds. In addition, Hendrix offers Vise-Top insulators with aluminum clamping inserts for use with bare conductors. They are designed to fit on standard 1" or 1 3/8" pins. Insulators are available with ratings of 15kV, 25kV or 35kV.



HPI-15VTP



HPI-25VTP



HPI-35VTP

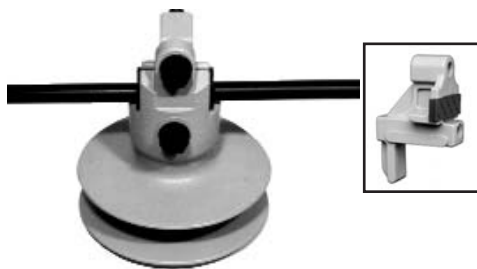
Benefits:

- Quick and easy installation using two torque bolts
*Bottom Bolt is always tightened first.
- Torque bolt ring breaks off at a predetermined torque to provide proper clamping force
- Insulator acts as a stringing block when used with the VTST-1 stringing tool, significantly reducing installation costs
- Electrically compatible with covered conductors, no stripping is required
- Resistant to impact damage, breakage and vandalism
- Excellent weather washing characteristics
- Interchangeable with porcelain insulators
- Excellent weatherability proven by 30+ years of field experience
- Light weight for easy handling
- Excellent for contaminated environments

Application:

Hendrix polyethylene insulators are recommended for use on spacer cable construction at angles and for open wire construction with either covered conductors or bare conductors. Using polyethylene insulators avoids the problems of increased corona and the resulting erosion of covered conductors that can occur with porcelain insulators. Hendrix polyethylene insulators are especially well suited to areas with a history of vandalism. Ballistics tests have shown that even with damage from rifle or shotgun fire, the insulators were still able to operate. Hendrix polyethylene insulators are also excellent for contaminated environments due to their long leakage distance and washing characteristics.

There are two types of Vise-Top insulators. One type has polymer clamping inserts for covered conductors and bare copper conductors. The other type has aluminum clamping inserts for bare aluminum conductors. To specify Vise-Top insulators with polymer clamping inserts, add the suffix "P" (ex. HPI-25VTP). For metal clamping inserts, add the suffix "M" (ex. HPI-25VTM). To specify pin diameter, add the suffix -01 for 1" and -02 for 1 3/8" (ex. HPI-25VTM-01).



Vise-Top with covered conductor
and nylon insert



Vise-Top with bare wire
and aluminum insert

continued

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Electrical, Mechanical & Physical Data

Characteristic	HPI-15VT	HPI-25VT	HPI-25VT-02	HPI-35VT**	HPI-35VT-02**
Neck Style	C	F	F	F	F
Typical Application, kV	15	25	25	35	35
ANSI Class	55-3 & 55-4	55-5 & 56-1	55-5 & 56-1	55-6*** 55-7*** 56-1	55-6*** 55-7*** 56-1
Leakage Distance, inches	15.8	15.8	15.7	23.0	22.9
Dry Arcing Distance, inches	8.1	9.3	9.3	11.1	11.1
Pin Hole Diameter, inches*	1	1	1 ³ / ₈	1	1 ³ / ₈
Minimum Pin Length, inches	6	6	6	7	7
60Hz Dry Flashover, kV	94	96	96	112	112
60Hz 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 grd, μV	<10	<10	<10	<10	<10
15 kV to grd, μV	-	<10	<10	<10	<10
22 kV to grd, μV	-	-	-	<10	<10
Cantilever Strength, lbs.****	3000	3000	3000	3000	3000
Dimensions, inches					
A	8 ¹ / ₄	8 ¹ / ₂	8 ¹ / ₂	10 ¹ / ₄	10 ¹ / ₄
B	5 ¹ / ₂	7 ¹ / ₂	7 ¹ / ₂	7 ¹ / ₂	7 ¹ / ₂
C	3 ⁷ / ₈	3 ³ / ₄	3 ³ / ₄	5 ¹ / ₂	5 ¹ / ₂
D	2 ¹ / ₂	2 ⁷ / ₈	2 ⁷ / ₈	3	3
E	N/A	N/A	N/A	N/A	N/A
F	N/A	N/A	N/A	N/A	N/A
Max. Conductor, inches	1.75	1.75	1.75	1.75	1.75
Weight, lbs.	2.0	2.6	2.6	3.2	3.2
Maximum continuous conductor operating temp., C°	120	120	120	120	120

Fully install the bottom bolt first.

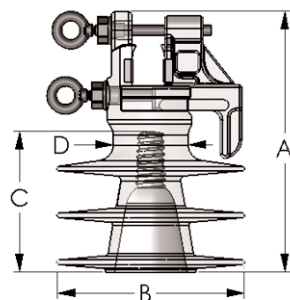
When ordering Vise-Top insulators, specify the suffix "P" for covered conductors and bare copper conductors or "M" for bare aluminum conductors.

* Different pin hole diameters and thread configurations to meet international standards are available upon request.

**Review design performance data before using on bare wire systems.

***ANSI C29.5 requires a minimum pin height of 7 1/2.

****Cantilever Strength refers to side clamp loading.



Vise-Top Insulator

