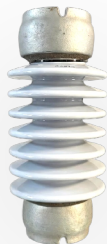


PORCELAIN STATION POST INSULATOR

Solid-Core C-130 Porcelain · Standard & Anti-Pollution Series · 15 kV – 252 kV



PRODUCT OVERVIEW

Vuulcan solid-core porcelain station post insulators are engineered for substation bus support, disconnect switches, and instrument transformer mounting. C-130 high-alumina porcelain body with hot-dip galvanized hardware. Standard (TR) and Anti-Pollution (ZSW/AP) shed profiles available for IEC 60815 Class C/D environments. 15 kV to 252 kV — the TR-316 at 5,029 mm is the largest single-piece 252 kV station post in our standard range.

KEY FEATURES

- ✓ C-130 high-alumina porcelain — zero puncture risk
- ✓ Standard & anti-pollution shed profiles available
- ✓ Up to 7,812 mm creepage at 252 kV (ZSW/AP series)
- ✓ Cantilever: 4 / 8 / 12.5 kN standard, 16 / 24 kN custom
- ✓ 100% ultrasonic tested solid core
- ✓ Hot-dip galvanized hardware — ≥ 86 µm zinc per ASTM A153
- ✓ DNV ISO 9001 · CRCC · KEMA type tested

ANSI C29.8 — STANDARD SERIES (TR)

TYPE	KV	CREEPAGE (MM)	CANTILEVER (KN)	DRY F/O (KV)	WET F/O (KV)	BIL (KV)	H (MM)	WT (KG)
TR-101	15	381	8	95	50	110	254	7.3
TR-103	25	559	8	120	70	150	381	10.9
TR-108	34.5	737	8	150	95	200	508	15.9
TR-205	46	1,016	12.5	175	110	250	660	24.5
TR-210	69	1,422	12.5	230	145	350	914	38.2
TR-214	115	2,032	12.5	350	230	550	1,372	68.0
TR-218	138	2,540	12.5	420	275	650	1,651	90.5
TR-310	161	3,048	12.5	480	315	750	2,032	115.0
TR-316	252	4,445	12.5	720	490	1,300	5,029	150.0

Higher cantilever (16 kN, 24 kN) available on request · TR-316 = largest single-piece 252 kV station post in standard range

MATERIAL SPECIFICATION

COMPONENT	MATERIAL	SPECIFICATION
Body	C-130 Porcelain	Wet-process, kiln-fired 1280 °C. Brown/grey glaze. Zero porosity. 100% ultrasonic tested.
Flanges	Ductile Iron / Cast Iron, HDG	ASTM A536 Gr.65-45-12. ANSI bolt pattern. Zinc ≥ 86 µm per ASTM A153.
Cement	Portland Cement	High-strength alumina bonding. Controlled torque assembly. Weather-resistant.

ANTI-POLLUTION SERIES — EXTENDED CREEPAGE (ZSW/AP)

MODEL	KV	CREEPAGE (MM)	RATIO (MM/KV)	CANT. (KN)	WET F/O (KV)
ZSW-15/8AP	15	594	39.6	8	50
ZSW-25/8AP	25	875	35.0	8	70
ZSW-40.5/8AP	40.5	1,215	30.0	8	95
ZSW-72.5/8AP	72.5	2,030	28.0	8	145
ZSW-126/12.5AP	126	3,528	28.0	12.5	230
ZSW-252/12.5AP	252	7,812	31.0	12.5	—

Creepage ratio ≥ 28 mm/kV meets IEC 60815 Class C (Heavy) pollution · 7,812 mm = highest single-piece creepage for 252 kV porcelain station post

Pollution Protection: ZSW-126/12.5AP provides 3,528 mm creepage vs 2,032 mm for standard TR-214 at the same voltage class. **That's 74% more creepage** — critical for coastal, industrial, and desert substations.

ROUTINE TESTS — PER PRODUCTION BATCH

1 Dielectric withstand (power frequency, 1 min)	C29.1 §5	2 Cantilever load test (rated load, 1 min)	C29.8 §7
3 100% ultrasonic porosity scan	Mfr. SOP	4 Galvanizing thickness ≥ 86 µm (mag. gauge)	ASTM A153
5 Visual & dimensional inspection (100%)	C29.8 §6	6 Thermal shock test (type test on request)	C29.1 §4

APPLICABLE STANDARDS & CERTIFICATIONS

DESIGN (ANSI) ANSI C29.8	DESIGN (IEC) IEC 60273	QUALITY SYSTEM DNV ISO 9001:2015			
POLLUTION CLASS IEC 60815 C/D	GALVANIZING ASTM A153 / ISO 1461	TEST METHODS ANSI C29.1			
ANSI C29.8	IEC 60273	IEC 60815	DNV ISO 9001	CRCC	KEMA

ORDERING INFORMATION

Standard: **VSP – TR-214 – 12.5 – STD** Anti-Pollution: **VSP – ZSW-126/12.5AP**
VSP = Vuulcan Station Post · **TR-XXX** = ANSI C29.8 type · **ZSW-XX/X AP** = Anti-pollution model · **Cantilever** = 4 / 8 / 12.5 / 16 / 24 kN · **STD** = Standard / **AP** = Anti-Pollution

Custom voltage classes, cantilever loads, and flange configurations available. Type-test reports per ANSI C29.8 / IEC 60273. Third-party inspection (SGS, BV, Intertek) welcome at any production stage. Contact: inquiry@vuulcaninsulators.com · vuulcaninsulators.com

Disclaimer: Information believed accurate but provided without warranty. Specifications subject to change without notice. Users should independently evaluate product suitability. This document does not constitute a contractual obligation. For binding specs, refer to purchase order confirmation and test reports.