

HUBBELL
Power Systems

CATALOG

Station Post Insulators

for 15 kV Applications & Above



Silicone Polymer Station Posts

Features and Benefits

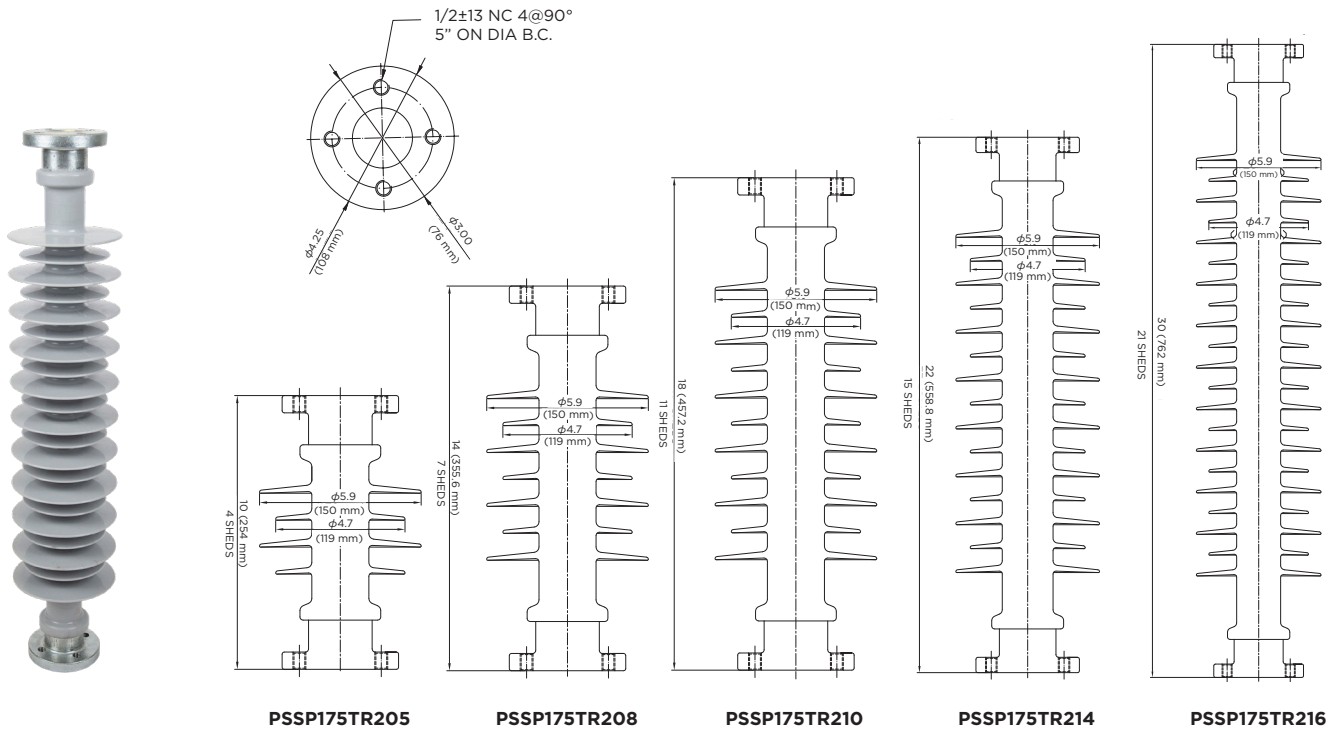
- Hydrophobic, silicone polymer for improved contamination performance
- Over-molded design to prevent moisture ingress
- Lightweight, vandalism resistant
- Price competitive compared to porcelain



Station Post Insulators Cross Reference Table

Station Post Technical Reference Number	Obsolete Hi*Lite Part Number	New Silicone Part Number	Alternate Porcelain Part Number
TR205	2334603001	PSSP175TR205	PSP2053001
TR208	2326863001	PSSP175TR208	PSP2083001
TR210	2326853001	PSSP175TR210	PSP2103001
TR214	2331923001	PSSP175TR214	PSP2143001
TR216	2331873001	PSSP175TR216	PSP2163001
TR278	2323363001	PSSP250TR278	PSP2783002
TR286	2323373001	PSSP250TR286	PSP2863001
TR288	2323383001	PSSP250TR288	PSP2883001
TR291	2323393001	PSSP250TR291	PSP2913001
TR304	2323753001	PSSP250TR304	PSP3043001

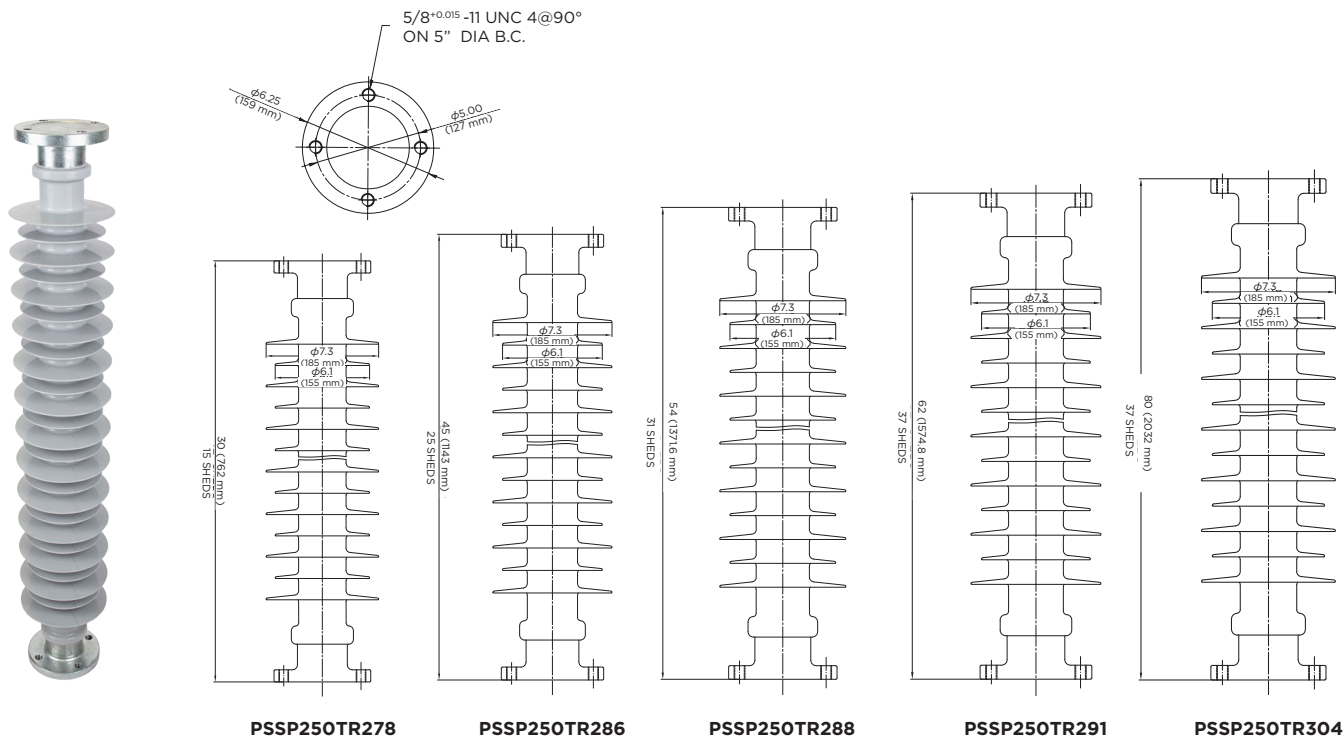
Silicone Station Post Characteristics - 110 kV to 350 kV BIL



Mechanical and Electrical Characteristics

Catalog Number	PSSP175TR205	PSSP175TR208	PSSP175TR210	PSSP175TR214	PSSP175TR216
BIL kV	110	150	200	250	350
Nominal System Voltage kV	15	25	35	46	69
Technical Reference Number	205P	208P	210P	214P	216P
Height in. (mm)	10 (254)	14 (357)	18 (457)	22 (559)	30 (762)
Leakage Distance in. (mm)	17.7 (450)	30.3 (770)	46.1(1170)	61.8 (1570)	86.6 (2200)
Critical Impulse Flashover Pos kV	125	165	225	280	390
60 Hz Low Frequency Wet Withstand kV	40	60	85	110	155
Specified Cantilever Load lbs. (kN)	7420 (33)	4766 (21.2)	3507 (15.6)	2788 (12.4)	1978 (8.8)
Max Design Cantilever Load lbs. (kN)	3710 (16.5)	2383 (10.6)	1754 (7.8)	1394 (6.2)	989 (4.4)
Specified Tensile Load lbs. (kN)	20000 (89)	20000 (89)	20000 (89)	20000 (89)	20000 (89)
Compression Strength lbs. (kN)	20000 (89)	20000 (89)	20000 (89)	20000 (89)	20000 (89)
Torsion Strength in-lbs. (N-m)	6000 (677)	6000 (677)	6000 (677)	6000 (677)	6000 (677)
Number of Weathersheds	4	7	11	15	21
Bolt Circle in. (mm) Top / Base	3 (76) / 3 (76)	3 (76) / 3 (76)	3 (76) / 3 (76)	3 (76) / 3 (76)	3 (76) / 3 (76)
Weight lbs. (kg)	8.62 (3.91)	9.94 (4.51)	11.33 (5.14)	12.74 (5.78)	15.30 (6.94)

Silicone Station Post Characteristics - 350 kV to 900 kV BIL

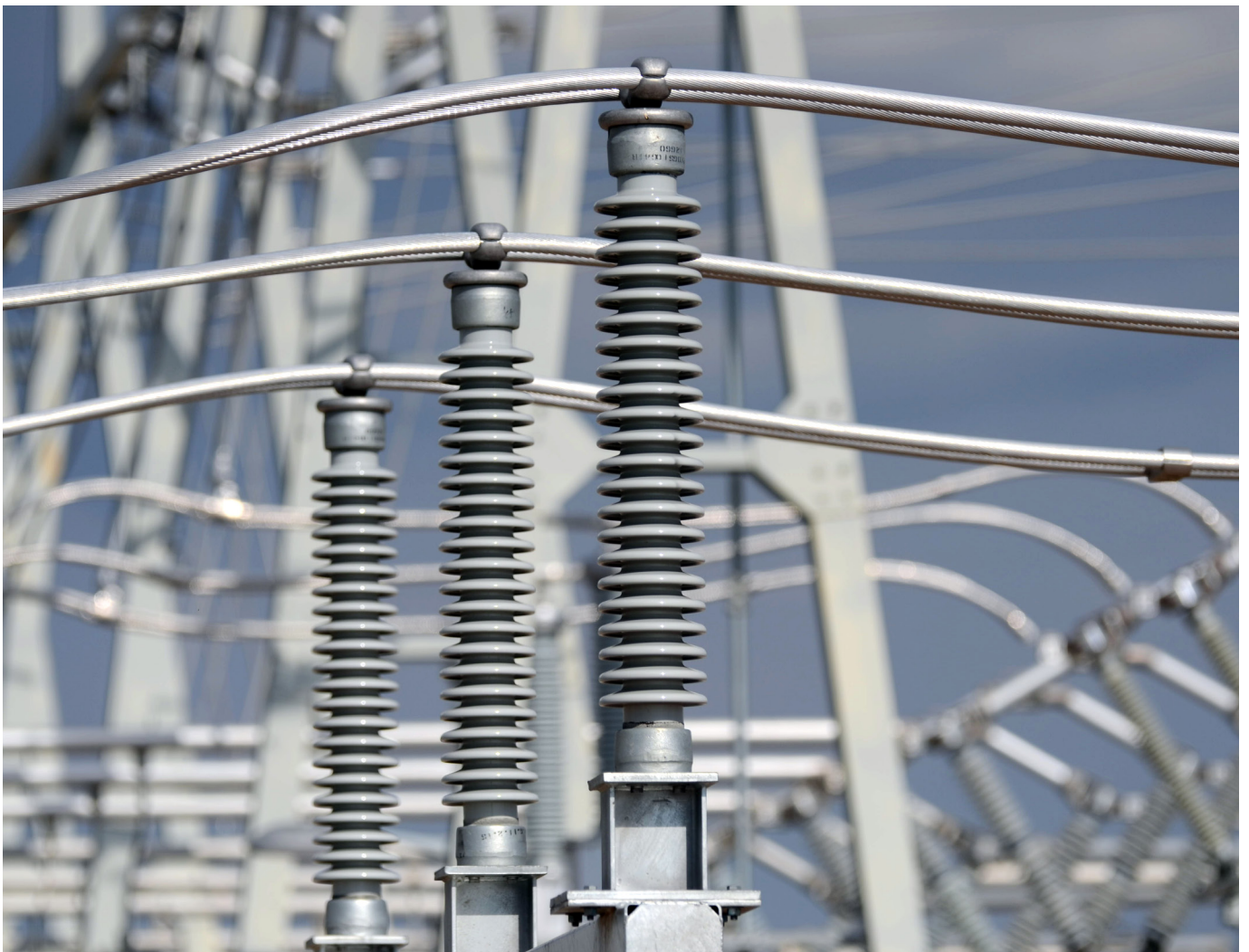


Mechanical and Electrical Characteristics

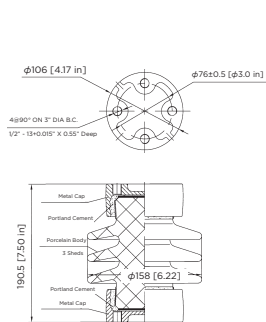
Catalog Number	PSSP250TR278	PSSP250TR286	PSSP250TR288	PSSP250TR291	PSSP250TR304
BIL kV	350	550	650	750	900
Nominal System Voltage kV	69	115	138	161	230
Technical Reference Number	278P	286P	288P	291P	304P
Height in. (mm)	30 (762)	45 (1143)	54 (1372)	62 (1575)	80 (2032)
Leakage Distance in. (mm)	61 (1550)	118.1(3000)	145.7 (3700)	173.2 (4400)	228.6 (5800)
Critical Impulse Flashover Pos kV	390	610	710	810	1010
60 Hz Low Frequency Wet Withstand kV	150	250	280	330	395
Specified Cantilever Load lbs. (kN)	5867(26.1)	3709(16.5)	3035 (13.5)	2608(11.6)	1978 (8.8)
Max Design Cantilever Load lbs. (kN)	2934 (13.05)	1855(8250)	1517 (6.8)	1304 (5.8)	989 (4.4)
Specified Tensile Load lbs. (kN)	30000 (133)	30000 (133)	30000 (133)	30000 (133)	30000 (133)
Compression Strength lbs. (kN)	30000 (133)	30000 (133)	30000 (133)	30000 (133)	30000 (133)
Torsion Strength in-lbs. (N·m)	18000 (2030)	18000 (2030)	18000 (2030)	18000 (2030)	18000 (2030)
Number of Weathersheds	15	25	31	37	49
Bolt Circle in. (mm) Top / Base	5 (127) / 5 (127)	5 (127) / 5 (127)	5 (127) / 5 (127)	5 (127) / 5 (127)	5 (127) / 5 (127)
Weight lbs. (kg)	33.33 (15.12)	43.95 (19.93)	50.03 (22.69)	55.65 (25.24)	67.80(30.75)

Features and Benefits

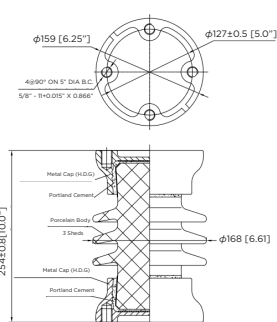
- Meets or exceeds ANSI C29.9 standards for mechanical and electrical ratings
- Solid-core construction with gray porcelain glaze as standard
- Long lasting durability with galvanized end caps and proven interface system



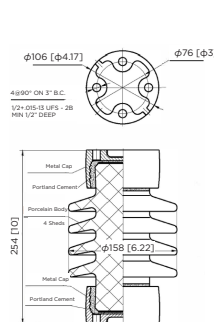
Porcelain Station Post Characteristics - 95kV to 110kV BIL



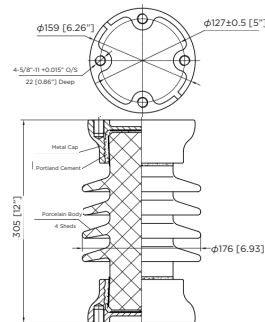
PSP2023001



PSP2223002



PSP2053001

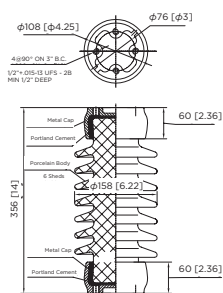


PSP2253002

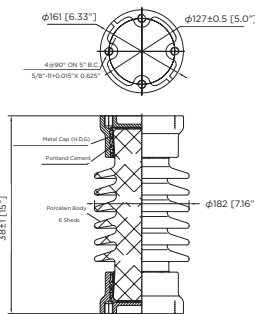
Mechanical and Electrical Characteristics

Catalog Number	PSP2023001	PSP2223002	PSP2053001	PSP2253002
BIL kV	95	95	110	110
Nominal System Voltage kV	7.5	7.5	15	15
Technical Reference Number	TR202	TR222	TR205	TR225
Height in. (mm)	7.5 (190.5)	10 (254)	10 (254)	12 (305)
Leakage Distance in. (mm)	10.5 (267)	10.5 (267)	15.5 (394)	15.5 (394)
Critical Impulse Flashover Pos kV	105	105	125	125
60 Hz Low Frequency Wet Withstand kV	30	30	45	45
Cantilever Strength lbs. (kN)	2000 (8.9)	4000 (17.8)	2000 (8.9)	4000 (17.8)
Tensile Strength lbs. (kN)	8542 (38)	15000 (67)	8500 (38)	20000 (89)
Compression Strength lbs. (kN)	10000 (44.5)	20000 (89)	10000 (44.5)	20000 (89)
Torsion Strength in-lbs. (N·m)	7000 (791)	12000 (1356)	7000 (791)	14000 (1582)
Number of Weathersheds	3	3	4	4
Bolt circle in. (mm) Top / Base	3 (76) / 3 (76)	5 (127) / 5 (127)	3 (76) / 3 (76)	3 (76) / 3 (76)
Weight lbs. (kg)	9.9 (4.5)	21.6 (9.8)	15.4(7.0)	24.7 (11.2)

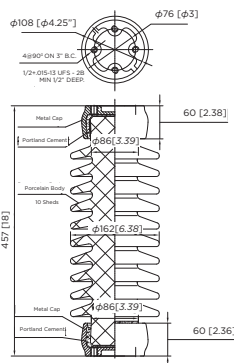
Porcelain Station Post Characteristics - 150kV to 200kV BIL



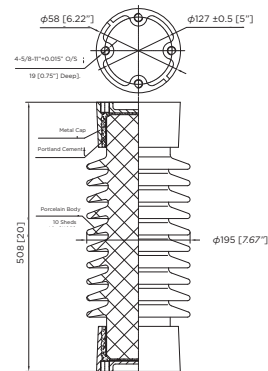
PSP2083001



PSP2273002



PSP2103001

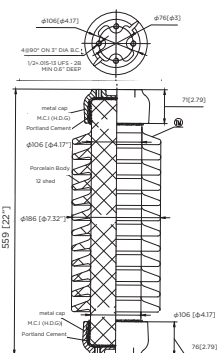


PSP2313002

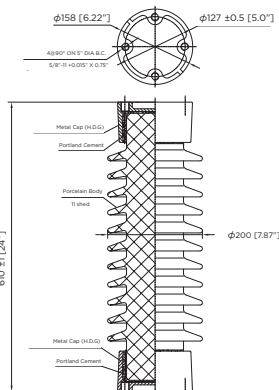
Mechanical and Electrical Characteristics

Catalog Number	PSP2083001	PSP2273002	PSP2103001	PSP2313002
BIL kV	150	150	200	200
Nominal System Voltage kV	23	23	34.5	34.5
Technical Reference Number	TR208	TR227	TR210	TR231
Height in. (mm)	14 (356)	15 (381)	18 (457)	20 (508)
Leakage Distance in. (mm)	24 (610)	24 (610)	37.4 (950)	37.4 (950)
Critical Impulse Flashover Pos kV	170	170	225	225
60 Hz Low Frequency Wet Withstand kV	60	60	80	80
Cantilever Strength lbs. (kN)	2000 (8.9)	4000 (17.8)	2000 (8.9)	4000 (17.8)
Tensile Strength lbs. (kN)	10000 (45)	20000 (89)	12000 (53)	25000 (111.2)
Compression Strength lbs. (kN)	10000 (45)	20000 (89)	15000 (66.7)	30000 (133)
Torsion Strength in-lbs. (N-m)	8000 (904)	16000 (1808)	10000 (1130)	20000 (2260)
Number of Weathersheds	7	6	10	10
Bolt circle in. (mm) Top / Base	3 (76) / 3 (76)	5 (127) / 5 (127)	3 (76) / 3 (76)	5 (127) / 5 (127)
Weight lbs. (kg)	27.5 (12.5)	42.9 (19.5)	34.4 (15.6)	55 (25)

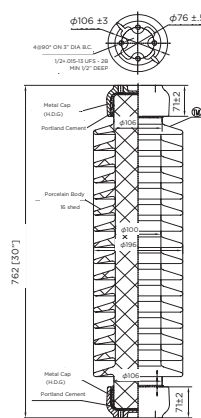
Porcelain Station Post Characteristics - 250kV to 350kV BIL



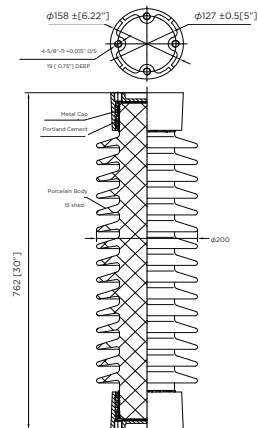
PSP2143001



PSP2673002



PSP2163001

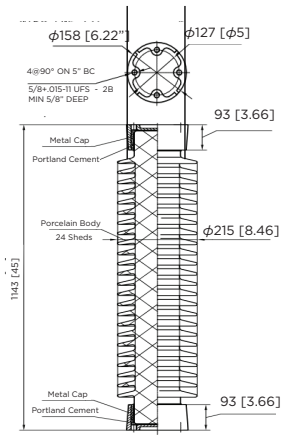


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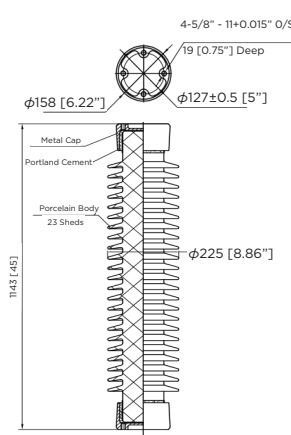
Mechanical and Electrical Characteristics

Catalog Number	PSP2143001	PSP2673002	PSP2163001	PSP2783002
BIL kV	250	250	350	350
Nominal System Voltage kV	46	46	69	69
Technical Reference Number	TR214	TR267	TR216	TR278
Height in. (mm)	22 (559)	24 (610)	30 (762)	30 (762)
Leakage Distance in. (mm)	43 (1092)	43 (1092)	72 (1829)	72 (1829)
Critical Impulse Flashover Pos kV	280	280	390	390
60 Hz Low Frequency Wet Withstand kV	100	100	145	145
Cantilever Strength lbs. (kN)	2000 (8.9)	4000 (17.8)	1500 (6.7)	3000 (13.3)
Tensile Strength lbs. (kN)	13938 (62)	25000 (111.2)	16000 (72)	25000 (111.2)
Compression Strength lbs. (kN)	14995 (66.7)	60000 (267)	25000 (112)	60000 (267)
Torsion Strength in-lbs. (N·m)	12000 (1356)	20000 (2260)	15000 (1700)	40000 (4520)
Number of Weathersheds	12	11	16	15
Bolt circle in. (mm) Top / Base	3 (76) / 3 (76)	5 (127) / 5 (127)	3 (76) / 3 (76)	5 (127) / 5 (127)
Weight lbs. (kg)	45.2 (20.5)	61.7 (28)	66 (30)	101 (46)

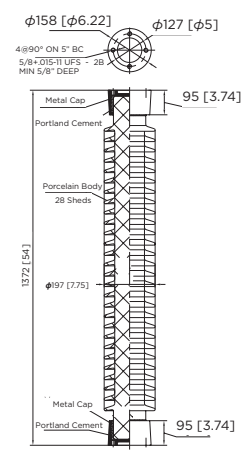
Porcelain Station Post Characteristics - 550kV to 650kV BIL



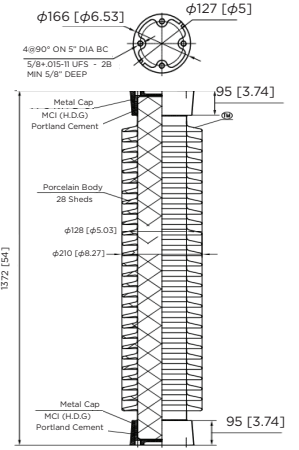
PSP2863001



PSP2873002



PSP2883001

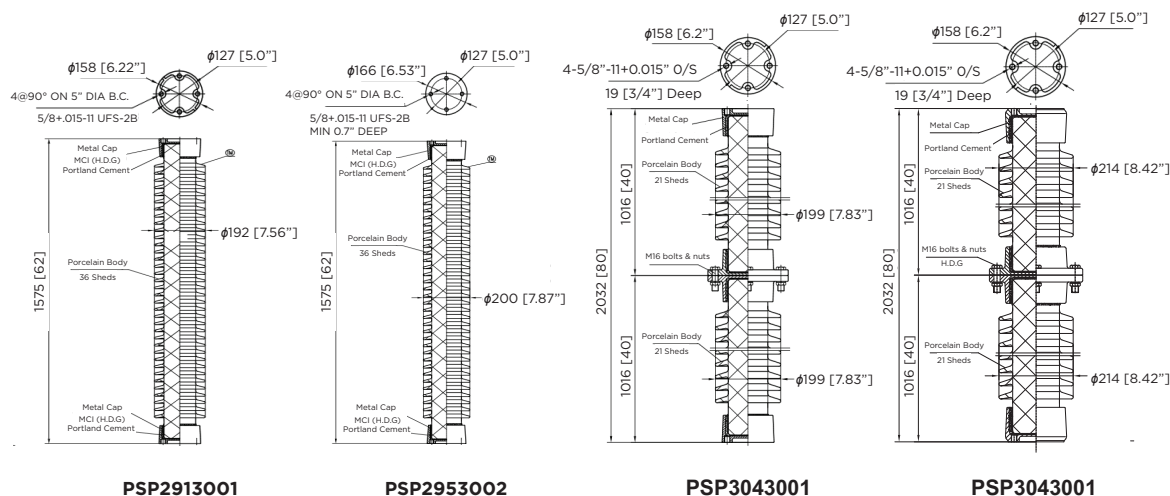


PSP2893002

Mechanical and Electrical Characteristics

Catalog Number	PSP2863001	PSP2873002	PSP2883001	PSP2893002
BIL kV	550	550	650	650
Nominal System Voltage kV	115	115	138	138
Technical Reference Number	TR286	TR287	TR288	TR289
Height in. (mm)	45 (1143)	45 (1143)	54 (1372)	54 (1372)
Leakage Distance in. (mm)	99 (2515)	99 (2515)	116 (2947)	116 (2947)
Critical Impulse Flashover Pos kV	610	610	710	710
60 Hz Low Frequency Wet Withstand kV	230	230	275	275
Cantilever Strength lbs. (kN)	1700 (7.6)	2600 (11.6)	1460 (6.5)	2203 (9.8)
Tensile Strength lbs. (kN)	20000 (89)	25000 (111.2)	20000 (89)	24998 (111.2)
Compression Strength lbs. (kN)	60000 (267)	75000 (333.6)	60000 (266.9)	74996 (333.6)
Torsion Strength in-lbs. (N-m)	40000 (4520)	90000 (10169)	60000 (6779)	90012 (10170)
Number of Weathersheds	24	23	28	28
Bolt circle in. (mm) Top / Base	5 (127) / 5 (127)	5 (127) / 5 (127)	5 (127) / 5 (127)	5 (127) / 5 (127)
Weight lbs. (kg)	142.2 (64.5)	157.6 (71.5)	150 (68)	169.3 (76.8)

Porcelain Station Post Characteristics - 750kV to 900kV BIL

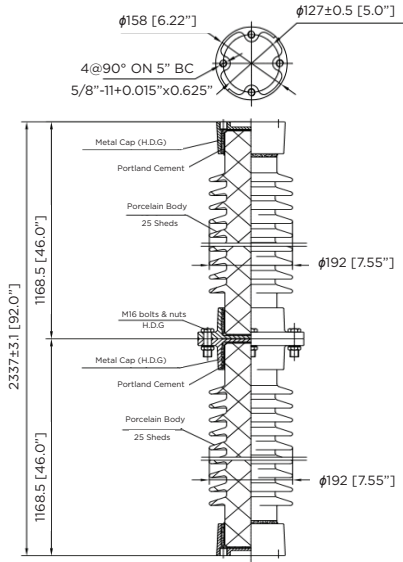


Mechanical and Electrical Characteristics

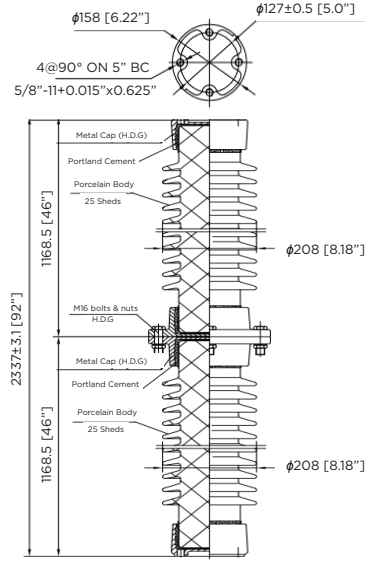
Catalog Number	PSP2913001	PSP2953002	PSP3043001	PSP3083002
BIL kV	750	750	900	900
Nominal System Voltage kV	161	161	230	230
Technical Reference Number	TR291	TR295	TR304	TR308
Height in. (mm)	62 (1575)	62 (1575)	80 (2032)	80 (2032)
Leakage Distance in (mm)	132 (3353)	132 (3353)	165 (4191)	165 (4191)
Critical Impulse Flashover Pos kV	810	810	1010	1010
60 Hz Low Frequency Wet Withstand kV	315	315	385	385
Cantilever Strength lbs. (kN)	1200 (5.4)	1866 (8.3)	966 (4.3)	1461 (6.5)
Max Design Cantilever Loads lbs. (kN)	600 (2.7)	933 (4.2)	483 (2.1)	731 (3.3)
Tensile Strength lbs. (kN)	20000 (89)	25000 (111.2)	20000 (89)	25000 (111.2)
Compression Strength lbs. (kN)	60000 (267)	75000 (333.6)	60000 (267)	75000 (333.6)
Torsion Strength in-lbs. (N·m)	40000 (4520)	90000 (10170)	40000 (4520)	90000 (10170)
Number of Weathersheds	36	36	42	42
Bolt circle in. (mm) Top / Base	5 (127) / 5 (127)	5 (127) / 5 (127)	5 (127) / 5 (127)	5 (127) / 5 (127)
Weight lbs. (kg)	168.6 (76.5)	218.5 (99.1)	238 (108)	300 (136)

Weight lbs. (kg)

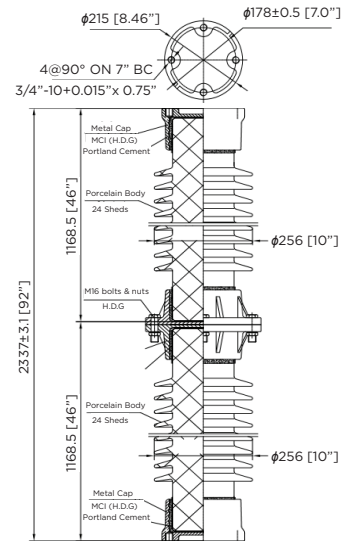
Porcelain Station Post Characteristics - 1050kV BIL



PSP3123001



PSP3163002

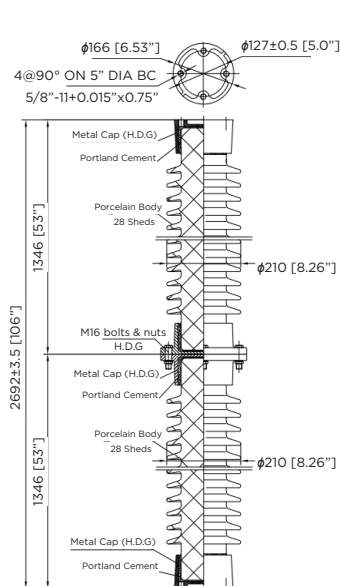


PSP3623003

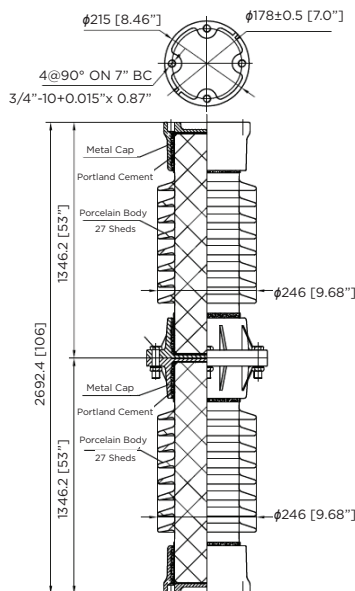
Mechanical and Electrical Characteristics

Catalog Number	PSP3123001	PSP3163002	PSP3623003
BIL kV	1050	1050	1050
Nominal System Voltage kV	230	230	230
Technical Reference Number	TR312	TR316	TR362
Height in. (mm)	92 (2337)	92 (2337)	92 (2337)
Leakage Distance in (mm)	198 (5030)	198 (5030)	198 (5030)
Critical Impulse Flashover Pos kV	1210	1210	1210
60 Hz Low Frequency Wet Withstand kV	455	455	455
Cantilever Strength lbs. (kN)	800 (3.6)	1250 (5.6)	2300 (10.3)
Tensile Strength lbs. (kN)	20000 (89)	25000 (111.2)	40000 (178)
Compression Strength lbs. (kN)	60000 (267)	75000 (334)	100000 (444.8)
Torsion Strength in-lbs. (N·m)	40000 (4520)	90000 (10169)	120000 (13558)
Number of Weathersheds	so	so	48
Bolt circle in. (mm) Top / Base	5 (127) / 5 (127)	5 (127) / 5 (127)	7 (178) / 7 (178)
Weight lbs. (kg)	255.7 (116)	308.6 (140)	471.7 (214)

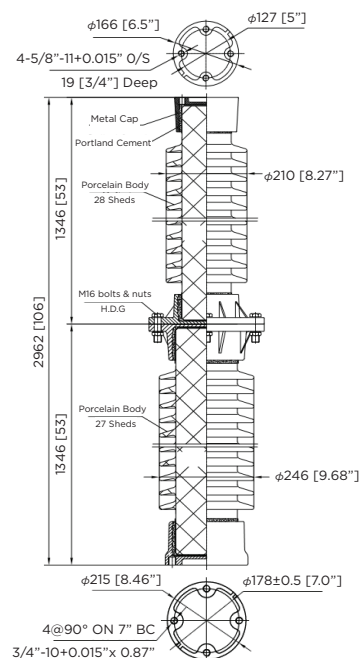
Porcelain Station Post Characteristics - 1300kV BIL



PSP3243002



PSP3683003

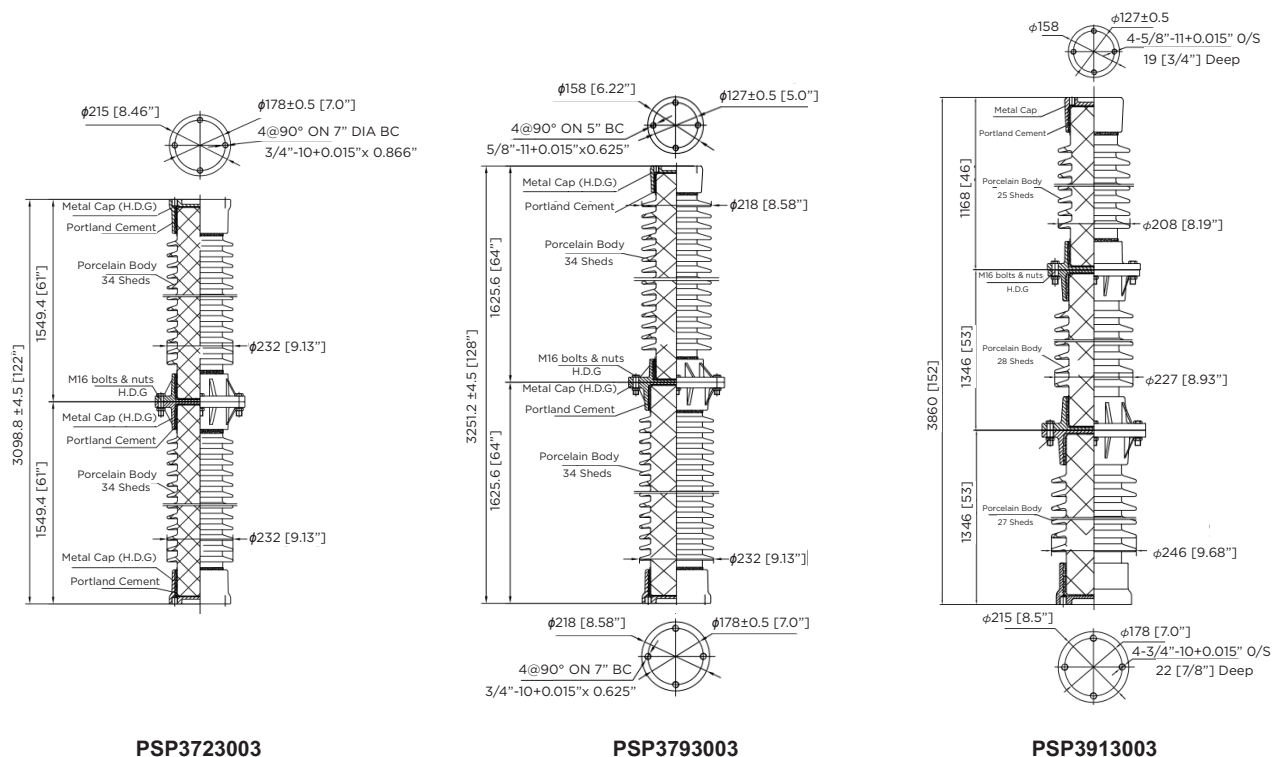


PSP3693003

Mechanical and Electrical Characteristics

Catalog Number	PSP3243002	PSP3683003	PSP3693003
BIL kV	345	345	345
Nominal System Voltage kV	1300	1300	1300
Technical Reference Number	TR324	TR369	TR369
Height in. (mm)	106 (2692)	106 (2692)	106 (2692)
Leakage Distance in. (mm)	231 (5868)	231 (5868)	231 (5868)
Catalog Number	PSP3243002	PSP3683003	PSP3693003
Critical Impulse Flashover Pos kV	1410	1410	1410
60 Hz Low Frequency Wet Withstand kV	525	525	525
Cantilever Strength lbs. (kN)	1000 (4.5)	2000 (8.9)	2052 (9.13)
Tensile Strength lbs. (kN)	25000 (111.2)	40000 (178)	25000 (111.2)
Compression Strength lbs. (kN)	75000 (334)	100000 (444.8)	90000 (400.4)
Torsion Strength in-lbs. (N-m)	90000 (10169)	120000 (13558)	90000 (10169)
Number of Weathersheds	56	54	56
Bolt circle in. (mm) Top / Base	5 (127) / 5 (127)	7 (178) / 7 (178)	5 (127) / 7 (178)
Weight lbs. (kg)	343.9 (156)	520.2 (236)	447 (203)

Porcelain Station Post Characteristics - 1470kV to 1800kV BIL



Mechanical and Electrical Characteristics

Catalog Number	PSP3723003	PSP3793003	PSP3913003
BIL kV	500	500	500
Nominal System Voltage kV	1470	1550	1800
Technical Reference Number	TR372	TR379	TR391
Height in. (mm)	122 (3098.8)	128 (3251.2)	152 (3860)
Leakage Distance in. (mm)	264 (6706)	280 (7112)	330 (8390)
Catalog Number	PSP3723003	PSP3793003	PSP3913003
Critical Impulse Flashover Pos kV	1610	1710	2000
60 Hz Low Frequency Wet Withstand kV	590	620	710
Cantilever Strength lbs. (kN)	1750 (7.8)	1700 (7.6)	1410 (6.3)
Tensile Strength lbs. (kN)	40000 (178)	25000 (111.2)	20000 (89)
Compression Strength lbs. (kN)	100000 (445)	90000 (400)	60000 (267)
Torsion Strength in-lbs. (N·m)	120000 (13558)	90000 (10170)	40000 (4520)
Number of Weathersheds	68	72	80
Bolt circle in. (mm) Top / Base	7 (178) / 7 (178)	5 (127) / 7 (178)	5 (127) / 7 (178)
Weight lbs. (kg)	562.1(255)	562.2 (255)	644.8 (292.5)

HUBBELL

Power Systems

Hubbell Power Systems, Inc. (HPS) manufactures a wide variety of transmission, distribution, substation, OEM and telecommunications products used by utilities.

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