

PASD MG2007 - PowIVac 5kV "K1" Field Checklist Maintenance Table

kV/kA (K factor 1)	5kV/36kA 36"	5kV/50kA 36"	5kV/50kA 36" (5 cycle)	5kV/36kA ND	5kV/50kA ND
VI Part #	C-H WL35914A	C-H WL35925A	C-H WL35914A	C-H WL35914A	C-H WL35925A
VI Assembly#	60501G02	60501G03/*60500G03	60501G02	77014G01	77014G03
Continuous Current	1200, 2000	1200, 2000,*3000	1200, 2000	1200, 2000	1200, 2000
Push Rod	50934G19	50934G20	50934G20	77017G01	77017G02
Spring Color	blue	red	red	green	yellow
Sliding Contact # (qty. of contact fingers)	50952G01 (10)	1200/2000 - 50956G01 (14) 3000 - 50956G02 (14)	1200/2000 - 50956G01 (14)	77015G01 78-80 points	77015G02 92-94 points
Primary Stab #	1200 - ¼" 50403P04 2000 - ½" 50403P01	All bkrs - ½" 50403P01	All bkrs - ½" 50403P01	77210P01 (2) 77211P01 (2)	77210P01 (2) 77211P01 (2)
Contact Stroke	.350" - .450"				
Push Rod over travel (nut gap)	.063" - .625"				
Contact Resistance (maximum allowable)	1200 - 60 2000 - 50	1200 - 60 2000 - 45 3000 - 40	1200 - 70 2000 - 50	1200 - 60 2000 - 50	1200 - 60 2000 - 45
Main Opening Speed	≥42"/sec				
Main Opening Time	3 cycle breakers t < 35ms; 5 cycle breakers t < 55ms				
Main Closing Speed	≥24"/sec.				
Main Closing Time	≤ 60ms				

Contact Stroke	Breaker "contact travel" in inches, determined by measuring the difference between the closed and open position of the lower contact block. Stroke will vary depending upon operational conditions.
Nut gap (Contact Spring Loading Force)	Dimensional measurement of the gap between the push rod operating yoke and the nut on the end of the push rod stud.
Contact Resistance	Maximum conductor path resistance, measured in micro ohms, from the upper to lower primary stabs.
Closing time	Time measurement in milliseconds, initiated at application of closing voltage and stopped at contact touch. Time in cycles based on 60 cycles system.
Closing speed	Determined by 0.25 S (S = breaker stroke measured in inches) divided by Tc (Tc = Elapsed time in milliseconds for the breaker contacts to travel the last 25% of the breaker closing stroke)
Opening time	Time measurement in milliseconds, initiated at application of opening voltage, and stopped at contact part. Time in cycles based on 60 cycles system.
Opening speed	Determined by 0.75 S (S = breaker stroke measured in inches) divided by Tt (Tt = Elapsed time in milliseconds for the breaker contacts to travel the first 75% of the breaker opening stroke)