

PASD MG2003 – 15kV PowlVac “K1” Field Checklist & Maintenance Table

kV/kA (K factor 1)	15kV/25kA	15/36kA	15kV/50kA	15kV/63kA
VI Part # VI Assembly#	C-H WL35911 60501G01	C-H WL35296A 60500G01	C-H WL35297A 60500G03	C-H WL35949
Continuous Current	1200, 2000	1200, 2000	1200, 2000, 3000	1200, 2000, 3000
Push Rod Spring Color	50934G18 silver	50934G19 blue	50934G20 red	50934G21
Sliding Contact # (qty. of contact fingers per side)	50952G01 (10)	50952G01 (10)	1200/2000 - 50956G01 (14) 3000 - 50956G02 (14)	60500P01 Multilam
Primary Stab #	1200 – ¼” 50403P04 2000 - ½” 50403P01	1200 – ¼” 50403P04 2000 - ½” 50403P01	12,20,3000 – ½” 50403P01	Upper - 50403P11(left) Upper - 50403P13(right) Lower – 50403P12
Contact Stroke	.350" - .450"			.450" - .550"
Push Rod over travel (nut gap)	.063" - .625"			.188" - .875"
Contact Resistance (maximum allowable)	1200 - 70 2000 - 50	1200 - 60 2000 - 50	1200 - 60 2000 - 45 3000 - 40	1200 – 20 2000 – 20 3000 – 20
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 stab assemblies.
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)
Auxiliary contacts	Time measurement in milliseconds, initiated at application of opening or closing voltage, and stopped when contact changes state. Time in cycles based on 60 cycles system.