## VALVE ELECTRONIC CV6008

Specification MAP/CV6008/Issue 3	SECURITY	
Dated 21.7.49. To be read in conjunction with	Specification	<u>Valve</u>
K1001, ignoring clauses: 5.2, 5.8.	RESTRICTED	UNCLASSIFIED

## Indicates a change

TYPE OF VALVE: Enclosed triggered spark gap.  CATHODE: Cold		MARKING See Kl001/4		
ENVELOPE:	Glass-unmetallised protected (See		BASE CL3	
Note B).		CONNECTIONS		
RATING  Trigger Voltage (kV)  Min. Working Voltage (kV)  Peak Output Power (kW)		A	Pin 1 2 3 T.C.	Electrode Trigger electrode Anode No connection Cathode
			TOP CAP See K1001/A1/D5.11	
			DIMENSI ONS	
			See drawing on Page 4.	

## NOTES

A. Under the following conditions: -

Main Gap Voltage = 7.2 kV. Pulse Length = 0.25  $\mu$ sec. Repetition Frequency = 2500 per sec.

Constant current charging is used and the load and line are matched.

B. The valve shall be provided with adequate splinter proofing.



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To be performed in addition to those applicable in K1001.

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Test	Lir Min.	Max.	No. Tested	Note	
For the purpose of the following tests, all electrode potentials shall be measured with respect to the anode, which encloses the trigger rod.					
A spark shall occur which also delivers power to the load circuit.			100%	1	
Trigger break- down voltage(kV)		5.0	100%		
1. Jitter in µsecs. (total lateral movement of the trailing edge of the monitored pulse).  2. Fluctuations of amplitude		<b>±10%</b>	100%		
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TESTS (Cont'd.)

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To be performed in addition to those applicable in K1001.

	Test Conditions	Test	Limits		No.	
			Min.	Max.	Tested	Note
ð	Cathode Voltage = -8.4 kV. Other test condi- tions as in 'a'	1. Jitter in µsecs. (total lateral movement of the trailing edge of the monitored pulse).  2. Fluctuations of amplitude	-	n.2 ±10%	100%	
e	With the set up as in test 'a' the cathode voltage shall be increased until unstable operation occurs	Negative cathode voltage(kV) at which irregular breakdown (i.e. breakdown not correlated with the trigger pulse) occurs at a rate of between 1 & 6 times per sec.	10.5	60	100% or S	

## NOTE

1. Test clause 'a' must be performed first in the test schedule.

