

MINISTRY OF SUPPLY (D.C.D.)VALVE ELECTRONIC**CV 75**

Specification MAP/CV75/Issue 6 Dated 15.1.49. To be read in conjunction with K1001. ignoring clauses:- 5.2., 5.8.	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification RESTRICTED <i>Unclass</i></td><td>Valve UNCLASSIFIED</td></tr> </table>	SECURITY		Specification RESTRICTED <i>Unclass</i>	Valve UNCLASSIFIED
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→ Indicates a change

<u>TYPE OF VALVE:-</u> Gas-filled Relay	<u>MARKING</u> See K1001/4
<u>CATHODE:-</u> Cold.	<u>PACKING</u> See K1005
<u>ENVELOPE:-</u> Glass	
<u>COMMERCIAL PROTOTYPE:-</u> 4313-C	

<u>RATING</u>	Note	<u>BASE</u> USS4
Control gap breakdown voltage (V)	75	Pin Electrode
Control gap maintaining voltage (V)	60	1 Control Electrode 2 Anode
Main gap breakdown voltage (V)	150	3 No connection 4 Control Electrode
Main gap maintaining voltage (V)	75	<u>DIMENSIONS</u>
Transfer current (μ A)	5	See K1001/AI/D.1.
Maximum peak control electrode current (mA)	30	mms. Min. Max.
Maximum average control electrode current over period of one second (mA)	10	A - 88
Maximum peak reverse current in main gap (mA)	5	B - 30.0

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To be performed in addition to those applicable in K1001.

	Test Conditions	Test	Limits		No. Tested
			Min.	Max.	
a	A D.C. voltage shall be applied between the control electrodes and increased in value until breakdown occurs. The anode shall be left floating. Test to be carried out with each control electrode in turn positive with respect to the other control electrode.	Control Gap Breakdown Voltage (V)	-	90	100%
b	The control gap current shall be set to 20 mA. The anode shall be left floating. Test to be carried out with each control electrode in turn positive with respect to the other control electrode.	Control Gap Maintaining Voltage (V)	-	75	100%
c	A D.C. voltage shall be applied between one control electrode and the anode, and increased until breakdown occurs. Test to be carried out with each control electrode in turn as cathode, the other control electrode being left floating.	Main Gap Breakdown Voltage (V)	145	-	100%
d	The main gap current shall be set to 20 mA. Test to be carried out with each control electrode in turn as cathode, the other control electrode being left floating.	Main Gap Maintaining Voltage (V)	-	90	100%

