

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV256/Issue 2. Dated 7.3.47. To be read in conjunction with K1001, ignoring clause:- 5.2.	<u>SECURITY</u>	
	<u>Specn.</u> Restricted	<u>Valve</u> Unclassified

<u>TYPE OF VALVE:-</u> Voltage Stabiliser. <u>CATHODE:-</u> Cold. <u>ENVELOPE:-</u> Glass.		<u>MARKING</u> See K1001/4.		
<u>RATING</u>		Note See K1001/ATV/D5.1.	<u>BASE</u> B4	
Maximum striking voltage (V)	140		Pin	Electrode
Max: cathode current (mA)	180		1	Anode
Nominal operating voltage at 50 mA cathode current (V)	97.5		2	Cathode
Max. cathode current for continuous rating (mA)	120		3	No connection
		4	No connection	
		<u>DIMENSIONS</u> See K1001/Al/D1.		
		Dimension	Min. Max.	
		A mm	153 174	
		B mm	45 53	
		<u>PACKING</u> See K1001/7.		

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions	Test	Limits		No. Tested	Note
			Min.	Max.		
a	Applied voltage increased from zero until current flows.	Striking voltage V_a (V)	-	140	100%	1

(Tests Contd. overleaf)

TESTS (CONTD.)

	Test Conditions	Test	Limits		No. Tested	Note
			Min.	Max.		
b	Ia = 180 mA, Va adjusted.	Va noted after 15 minutes.			100%	1 2
c	Ia = 30 mA, Va adjusted.	i. Anode Voltage Va (V)	84	99	100%	1
		ii. Change in Va from value in test 'b' (V)	-	5	100%	
d	Circuit of Fig.2 connected between anode and cathode.	R.M.S. output voltage must be less than 10 mV for any value of Ia between 50 mA and 180 mA.			100%	

NOTES

1. Valve to be tested in circuit of Fig.1.
2. Test 'b' should be done immediately before the remaining tests. If the valve fails any of the tests, it shall be re-tested after 15 minutes of operation at Ia = 180 mA.

Fig.1.Fig.2.

P = Potentiometer

A = Low resistance milliammeter

V = High resistance voltmeter

C₁ = C₂ = 0.02 μF.R₁ = R₂ = 20,000 ohms.