

VALVE ELECTRONIC

CV216

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV216/Issue 4, Dated 14.2.51. To be read in conjunction with K1001, ignoring clauses :- 5.2, 5.8.	<u>SECURITY</u>	
	<u>Specification</u>	<u>Valve</u>
	Unclassified	Unclassified

<u>TYPE OF VALVE</u> :- Voltage Stabiliser <u>CATHODE</u> :- Gold <u>ENVELOPE</u> :- Glass, unmetallised <u>PROTOTYPE</u> :- OD3/VR150	<u>MARKING</u>	
	See K1001/4.	
	BASE IO	
	See K1001/AIV/D2.	

<u>RATING</u>		Note	Pin	Electrode
Max. Striking Voltage	(V) 180			1
Approx. Operating Voltage	(V) 150		2	Cathode
			3	Connected inter- nally to Pin 7
4	Pin omitted			
5	Anode			
6	Pin omitted			
7	Connected inter- nally to Pin 3			
8	No connection			
Min. Operating Current	(mA) 5			
Max. Operating Current	(mA) 40			
<u>DIMENSIONS</u>				
See K1001/AI/D1				
		<u>Dimension</u>	<u>Min.</u>	<u>Max.</u>
		A mm	96	105
		B mm	-	40
<u>PACKING</u>				
See K1005.				

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions		Test	Limits		No. Tested	Note
	Va (V)	Ia (mA)		Min.	Max.		
a	Increased from zero until Ia flows		Striking Voltage (V)	-	180	100%	1,2
b	Adjusted	40	Va (V)	-	162	100%	2
c	Adjusted	30	Va (V)	-	160	1% (5)	2
d	Adjusted	5	Va (V)	145	-	100%	2
e	50		Leakage Current (μA)	-	10	1% (5)	2
f	<u>Impedance</u>						
	(i) Difference between value of Va in test 'b' and value in test 'd' (V)			-	5.5	100%	
	(ii) Difference between value of Va in test 'c' and value in test 'd' (V)			-	4.0	1% (5)	
g	<u>Noise Test</u>		The valve is to be tested for freedom from oscillation and noise during operation. For this purpose a calibrated amplifier detector having a level response within ± 2 db of its response at 400 c.p.s. over the range of 50-5000 c.p.s. is to be connected between the Anode and Cathode. The Cathode current is to be varied slowly from 5 mA to 40 mA and at no point in this range must the R.M.S. noise input voltage to the amplifier exceed 10 mV. For the purpose of the test the valve shall be operated from a well filtered variable D.C. supply.				100%
<u>NOTES</u>							
1. This test is to be performed at least 24 hours after the valve is sealed off.							
2. With a minimum resistance of 1 K in series with the anode.							