## VALVE ELECTRONIC CV954

## ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV254/Issue 2.	SLCURITY		
Dated 1.2.46.	Specification Valve	200	
To be read in conjunction with K1003.	Restricted Restricted	1	

condu coati SCREEN:- WWN23	ostat ally d wit active ng. or YY Note	ic. h N2	MARKING See K1003/7.		
RATING Note			BASE AND CONNECTIONS		
}	6-clip base.				
Heater Voltage (V)	4.0		Pin	Electrode	
Heater Current (Approx)(A)	1.1		1	Cathode	
Max. Va1 (kV)	3.0	В	2	Modulator	
Max. Va2 (focus) (V)	700		3	Heater	
Max. Va3 (kV)	3.0		4	Heater	
Modulator Voltage (Vg)(V)	-25		5	Anode 2	
X-plate sensitivity (mm/V)	600		6	Anode 1	
	Va3		TOP CAPS AND DIMENSIONS See drawings; page 4.		
Y-plate sensitivity (mm/V)	675 Va3				

## NOTES

- A. The construction of the screen shall be such that, when it bears two superimposed traces with any recurrence frequency up to 3,000 per second, the building up of electric charges on the screen shall not cause any appreciable distortion of one trace by another.
- E. The first accelerating anode may be omitted, if desired.

TESTS

To be performed in addition to those applicable in K1003.

			Condi			garan ke salandari di dalah bahasa dagilan serek benterbilan membelangan membelangkan bahasa yaki dagilan membe	Limi	No.	
	Vh (V)	Va3 (kV)	Va2	Va1 (kV)	Vg (V)	Test	Min.	Max.	Tested
а	See	K1003	/5.12	•		Capacitances (pF) (i) Each X-plate to all others.	pro	16	
				(ii) Each Y-plate to all	-	12	10% (20)		
						others. (iii) Either X- plate to either Y- plate.	-	4	
ъ	4.0	_	-	-	-	Ih (A)	1.C	1.2	100%
С	justed justed  Adjust Va2 for optimum focus and Vg to give a spot brilliance equal to that of a standard tube. Deflecting voltages applied to give an open raster traversing the working area of the screen. Values of Va2 and Vg to be noted.			justed mum e a al rd ol-ve ers-a of of ted.	(i) Va2 (V) (ii) Line width   (to be with-   in 2.5 cms.   of centre   of tube). (iii) Uniformity   of focus   and bril-   liance.	The focu brillian be unifor the area 2.5 cms. centre of			
ln	all	tests	peTo	w, un	less	otherwise stated, in test 'c'.	condition	ns snall	De as
đ	Vg adjusted for visual cut-off, or to give a cathode current, neglecting leakage, of 0.1 ALA.			a	(i) Vg (V) (ii) Change in Vg from value found in test 'c'.	4	-25 15	100%	
е	See K1CC3/5.4.2.				Modulator Insulation (M <b>\O</b> )	5	-	100%	
f					Plate sensitivi- ties (mm/V). (i) X-plates. (ii) Y-plates.	550 Va3 550 Va3	650 Va3 800 Va3	100%	

	. Test Conditions		Limi	No.				
	Vh     Va3       (V)     (kV)       Va2     (kV)       (V)     (V)	72 वर्ष	Min.	Max.	Tested.			
Ŧ,		Angle between X- and Y-plate area.	<u> </u>	95 <sup>0</sup>	1(10)5			
h	See X1003/5.10.	Centring (mm deviation).	-	7•5	100%			
i	(i) Brilliance varied from min. to max.  (ii) Vaj altered between 2,700 and 3,300 V.  (iii) VX1 = VX2 = + 10 V.  (iv) Waves of form shown on Fig.1 below applied to one X-plate.  (v) Tube tapped vigorously.	()	During of (i)-(v) shall no in the 1 direction than 0.5	100%				
Con	+ 4,000 V to be con- nected between any one deflecting plate and final anode; the re- maining three deflect- ing plates being cou- nected to the final anode.	High deflecting plate voltage.	No internal breakdown or deterioration shall occur.		100%			
k	(i) X raised to -2000 V with respect to A3 & X2.  (ii) X2 raised to -200 V with respect to X1.  (iii) X1 raised to +5 V with respect to X2.  (iv) X2 raised to +5 V with respect to X1	Deflector plate conductivity (MA)	***	1.C	100%			
	Volts + 100  (1)  (1)  (1)  (1)  (1)  (1)  (1)							

