VALVE ELECTRONIC

Specification AD/CV464/Iss Dated 27.11.50. To be read in conjunction	SECURITY Specn. Valve Unclassified Unclassified						
	es a chang	(e					
TYPE OF VALVE: - Cathode Ra TYPE OF DEFLECTION: - Electromagne	MARKING See K1003/7.						
Symmetrical	202 2100 74 10						
BULB: - Internally coated w	BASE IO						
coating. SCREEN: - OOL (Aluminium b	Pin	Electrode					
PROTOTYPE: - 9L01A	1 2	Pin omitted					
RATING	3 4 5	A2 Pin omitted					
Heater Voltage (V) Heater Current (A)	4.0 1.2		6	Modulator Cathode			
Max. Va3 (kV) Typical Working Conditions	9.0		7 8	Heater Heater			
Va3 (kV) Va2 (kV)	8.0 1.3+100 V	A B	CAP				
Va1 (kV)	1.35+ 100 V	В	See K1001/AI/D5.2.				
Beam Current (µA) Vg for cut-off approx.(-V)	150 70	C	Anode 3 and graphite. DIMENSIONS				
CAPACITANCES (pF) Max. Cgc	20	D	See dr	swing page 4.			
Max. C cold cathode to all other electrodes	20						

- As the screen is aluminium backed, the tube may be used with either Anode or Cathode at earth potential.
- The first anode must always be at least 50 V positive to the В. second anode.
- Measured under suitable pulse conditions. C.
- Target to be 15 pF.

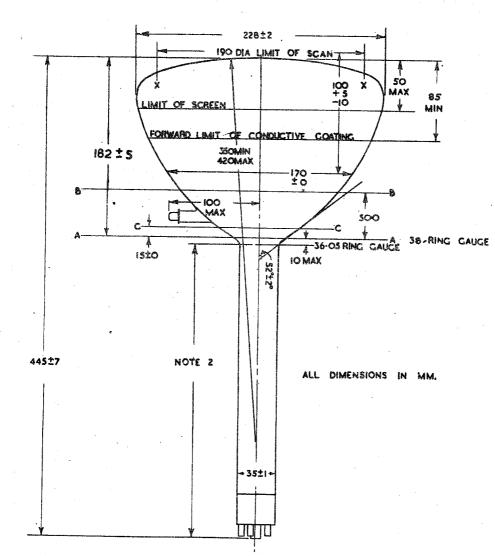
<u>TESTS</u>

To be performed in addition to those applicable in K1003.

	Tes	t Cond:	itions	è			Limits		No.	
	Vh (∀)	Va1 (kV)	Va2 (kV)	Va3 (kV)	Vg (V)	Test	Min.	Max.	Tested	Note
a	a See K1003/5.12.					Capacitances (pF) (i) Cgc (ii) C cold cathode to all other electrodes.	4 00	20 20	6 per we c k	D
Ъ	4.0	400	-	62 *	•	Ih (A)	0.7	1.2	100%	
C	4.0	1.35 <u>+</u> 100 ▼	•	8.0	130	(i) Line width (max)	-	0.8	100%	В
	See K1003/5.7. Va2 adjusted for optimum focus and Vg adjusted for a light intensity of 0.12 candles, from a 130 mm x 130 mm raster.				ed Ty Mara	(ii) Va2 (V) (iii) Beam Current (AA)	1200	1400 5•0	100%	В
đ	4.0	1.35 <u>+</u> 100 V	As in	8.0	Ad- just	Negative Vg for cut-off. To be noted as Vg1. (V)	GMP-	100	100%	
е	4.0	1.35 <u>+</u> 100 V		8.0	ı .	(i) Negative Vg to be noted			400%	
	The beam to be deflected off the usable screen area and Vg adjusted to give beam current of 150 microamps. When Vg is varied from cut-off Vg1, to Vg2, the beam current shall increase continuously.				as Vg2 (V) (ii) Vg1 - Vg2 (V)		50	100%		

TESTS (Contd.)

	I	Test	Condit	ions.						<u> </u>
	Vh	Va1	Va2	Va3	Vg	Test			No.	Note
	(V)	(kV)	(kV)	(kV)	(v)		Min.	Max.	Tested	
f	4.0	1 • 35 <u>+</u> 100V	As in	8.0	Any cur- rent value	Deviation of centre of un- focussed spot from centre of screen (mm)		10	100%	
හු	4.0	1.35± 100V	As in	8.0	As in	Screen graininess	To be no worse than that of a standard tube		100%	
h	4.0	1.35 <u>+</u> 100 V	As in 'c'	8.0	-1 00	Grid insula- tion (Megohms)	10	e de la companya de	10%	
j	4.0	0	0	0	0	Heater		and the second s		
	Cathode at + 100 V. w.r.t. heater.				Cathode Current (puA)	sant-	200	1 00%	terralita (il California) con mallera	
k	Tube to be rotated about the neck.					Radial Movement of edge of screen (mms)	ělγ	5	100%	



NOTES:

- I. ANY PROTUBERANCE DUE TO SEALING OFF OR ANODE CAP MUST LIE BETWEEN A-A & B-B.
- Z. OVER THIS LENGTH STRAIGHTNESS SHALL BE SUFFICIENTLY COOD FOR A GAUGE 37MM MAX. INTERNAL DIA & LOOMM. LENGTH TO SLIDE FREELY OVER NECK & BASE.
- 3. THE ANGLE BETWEEN PLANE THROUGH ANODE CAP & AXIS OF TUBE & PLANE THROUGH SPIGOT KEY & AXIS OF TUBE SHALL NOT EXCEED 150
- 4. THE ANODE CAP SHOULD BE OF THE AMERICAN OCTAL TYPE.
- 5. THE RADIUS OF CURVATURE OF THE FACE OF THE TUBE WILL APPLY OVER THE 190MM SCAN INDICATED BY POINTS X X.
- 6. THE WIDTH OF THE ANODE CAP & STALK OR ADAPTER PROJECTED ON TO A PLANE AT RIGHT ANGLES TO THE CENTRE LINE OF THE TUBE MUST NOT BE CREATER THAN ISMM.
- 7. THE SLOPE OF THE BULB MUST BE 5222° WITH RESPECT TO THE CENTRE LINE OF THE TUBE BETWEEN LINES C.C & A-A.