Valve Electronic CV5119

SPECIFICATION MOS/CV.5119	SECURITY				
ISSUE NO. 1 DATED 10.2.58	SPECIFICATION	<u>VALVE</u>			
	Unclassified	Unclassified			

TYPE OF VALVE: Cathode Ray Tube with concave face.		MARKING				
TYPE OF DEFLECTION: Magnetic.		See K. 1001/4				
TYPE OF FOCUS: Magnetic.						
ENVELOPE: Glass with internal conductive coating.						
SCREEN: GG5 with aluminium backing and anti- reflection coated front face.						
PROTOTYPE: 31C2/P1 (Mod.)					V	
RATING (all limiting values are abso	lute)	NOTES	B ase Bss.448/bl2A			
Heater Voltage (V) Heater Current (A)			CONNECTORS			
Max. Anode Voltage (KV) Max. Heater Cathode Voltage (V)	0.6 12.5 150		PIN	ELECTRODE		
Typical Operating Conditions Anode Voltage (KV) Grid Voltage (cut off) (V)	9•5 68		1 2 3,4,5,6, 7,8,9 10 11 12 Side Contact	Heater Grid No pin No connection Cathode Heater Anode	h gl NP NC k h	
CAPACITANCES (pF) Cathode to all (max.) Grid to all (max.)	10 10		SIDE CONTACT Recess Cap BS.448/CT8			
			DIMENSIONS See drawing on page 3			

NOTES

1. Heater negative.

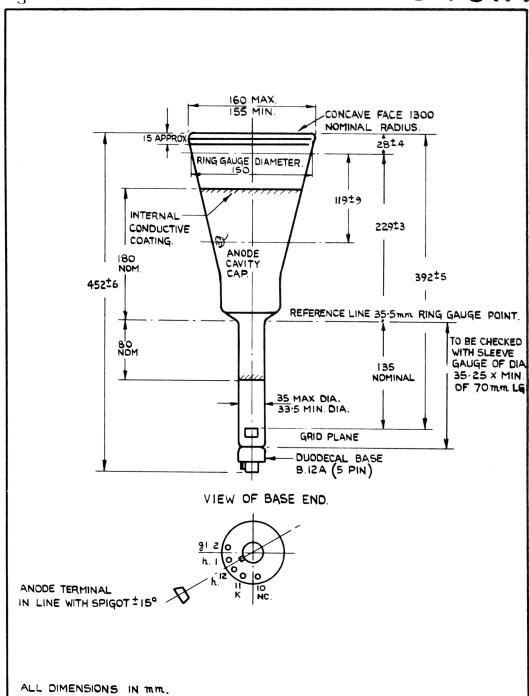
The tube has a linear bearing scale on its inner front face as shown in drawing on page 4.

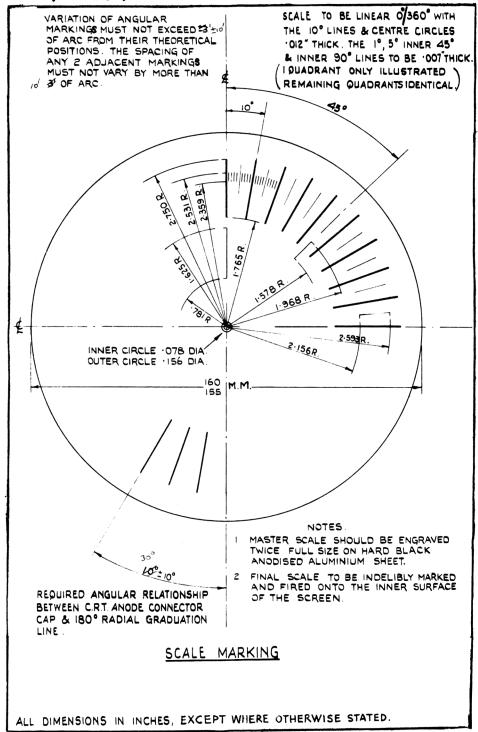
To be performed in addition to K1001

Test Conditions		Test		mits	No.	Notes
				Max.	Tested	Noves
a	See K.1001/5A.13	Capacitances (pF) Grid to all other electrodes Cathode to all other electrodes	-	10 10	}5% (5)	
	Vh Va Vg (V) (KV) (V)					
Ъ	6.3	Heater Current (A)	. 53	.67	100%	
С	6.3 9.5 Adjust to cut-off Measured with a 140mm long focussed line.	Negative Grid Volts (→V)	43	93	100%	
đ	6.3 9.5 Adjust Adjust for optimum focus.	1) Negative grid volts (V)	28	-	100%	
	Vg adjusted to give a light output of 0.15 candela.	2) Change in value of Vg from test 'C'. (V)	-	15	100%	
е	6.3 9.5 Adjust Adjust for optimum focus. Vg adjusted to give a light output of 0.15 candela with a linear of sine wave scan of 50 c/s nom. and line of length lu0mm in the X and Y directions successively. The line width to be measured at the centres.	Line width. (mm)	-	1.3	100%	1
f	6.3 9.5 -100 For recommended method see K1001/5A.3.2 Resistance = 10 MΩ	Crid Insulation 1) Leakage Current (μA) or 2) Increase in voltmeter reading.	-	10	100%	
g	6.3 9.5 Any convenient values.	Deviation of Spot from (mm) centre of screen.	-	10	100%	
	See #1001/54.11.1.					
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NOTES

1. Centre of focus coil gap to be 41 mm from grid face.





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AMENDMENT No. 1.

Page 4.

Note in Top left hand corner. Amend the note to read as follows: -"Variation of angular markings must not exceed 10' of arc from

their theoretical positions. The spacing of any 2 adjacent markings must not vary by more than 10' of arc". b) Beneath lower left hand quadrant

of face plate:-The dimension quoted as $10^{\circ} \pm 10^{\circ}$ amend to read: -

"30° ± 10°"

Royal Aircraft Establishment.

January 1960

N 12448

