MEDITALITY VALVE SPECIFICATIONS

SPECIFICATION MOS/CV2486 ISSUE 1, DATED 2.10.58

AMENDMENT NO. 1

Page 2 Clause (a), 1st Line

In column headed "Test Conditions",

Delete "58" Substitute "56"

In column headed "Limits Min.",

Delete "62" Substitute "60"

In column headed "Limits Max.",

Delete "74" Substitute "72".

^stober, 1960 -.34244/D T.V.C. for S.R.D.E.

Specification MOS(A)/CV2286	SECURITY		
Issue 2 Dated 1. 4. 54.	Specification	<u>Valve</u>	
To be read in conjunction with K1001	UNCLASSIFIED	UNCLASSIFIED	

-	Indi	cates	A	change

			-	JE 00 B	a onange	'		
TIPE OF VALUE - Cathode Ray Tube TIPE OF DEFLECTION - Electrostatic, symmetrical TIPE OF FOCUS - Electrostatic						MARKING Sec Kl001/4		
BULB - Internally coated with conductive coating SCREEN - YY6						BASE B120		
PROTOTYPE	- VCRX393			CONNECTIONS				
	RATING				Pin	Electrode		
Heater Voltage Heater Current Max. Fourth Anode Voltax. Third Anode Voltax. First Anode Voltage Tourth Anode Voltage Third Anode Voltage Second Anode Voltage First Anode Voltage I-plate Sensitivity Y-plate Sensitivity	tage tage mditions	(V) (MY) (MV) (MV) (MV) (MV) (MM) (V) (MM) (V) (MM) (V)	4.0 1.1 6.0 4.0 2.5 4.0 2.5 350 2.0 0.18 0.24	A A A	Sr DIMENS	G C H H A1 A2 Internally coated (See Note D) Y2 X2 A3 X1 Y1 A4 SIDE CONTACT Dap Terminal. SIONS AND CONNECTIONS Drawing on Page 4		

NOTES

- A. The tube shall operate with Val = 2.5 kV, Vaj = 3kV, and Val = 6kV under conditions of reduced pressure equivalent to 6 ins of mercury at 15°C.
- B. The tube shall be adequately free from microphony.
- C. The tube shall be of the post deflection acceleration type, and the design shall be such that with Val = 2.5kV the focus shall be substantially unaffected by varying the value of Va4 to that of Va3. A change of ± 10% in Va2 shall not produce an appreciable change in cut-off voltage.
- D. The tube will normally be operated with A3 and conductive coating tied, and if the manufacturer so desires these electrodes may be strapped internally with the connection emitted from contact marked "internal coating".

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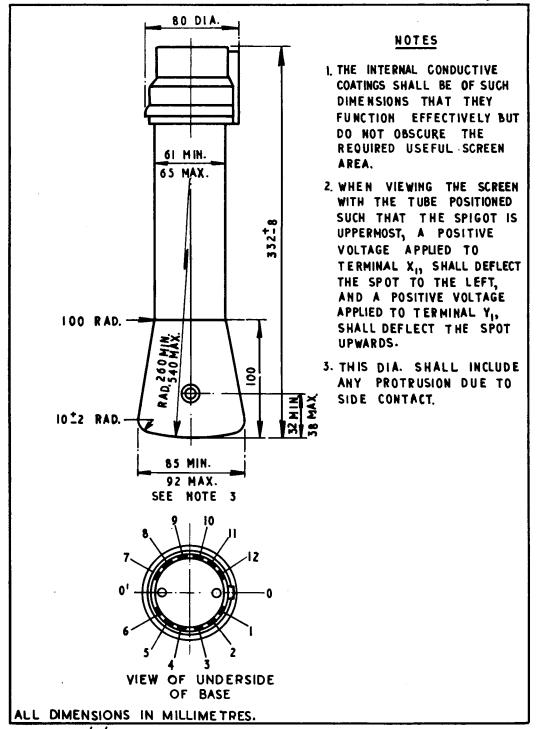
To be performed in addition to those applicable in Kl001

			t Ca	ndi tiʻons			Test	Limits		No.	Note
	Vh (V)	Va4 (kV)	Vaj (W)	Va2 (kV)	Val	Vg (V)		Min.	Max.	Tested	Note
	Defl	ecti or	vol	tagos sh	all b	applie	d symmetrically in	all c	α 308 .		
a	Sec	K1001/	/5A.1	3			Capacitances (pF) 1. Each X or Y-plate to all other clectrodes. 2. One X-plate to one Y-plate 3. Grid to all other electrodes.	-	25 6 25	%(10) %(10) %(10)	
ъ	4.0	0	0	0	0	0	Ih (A)	0.8	1.3	100%	
٥	4.0	4.0	2.0	Adjust for optimum focus		Adjust to cutoff	Vg (V) Value to be noted	-	-100	100%	
đ	4.0	4.0	2.0	As for Test (c)	2.0	-	1. Vg (V) 2. Change in Vg from Test	-1	1	100%	
		st Vg •032 c		ive a li	ght ou	ıtput	(c) (V) J. Within the range of grid voltage from cut-off to standard light output the beam current shall increase continuously.		35	100%	
е	4.0	4.0	2.0	As for Test (c)	2.0	-	l. Line Width (mm) 2. Va2 (V)	1	0.6 425	100%	
	DEFLECTION - With a sine wave time-base of 10 kc/s nom. and line length of 66 mm in the X direction and 70 mm in the Y direction successively, the line width shall be measured at the centre of the trace. (GRID - The grid will be pulsed positively from cut-off with amplitude equal to the value obtained in Test (d.2). Nom. Tp = 100 / usecs. Nom. PRF = 100 c/s.						·				

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	Test Conditions						Limits No.	Note
П	Vh (V)	Va4 (kV)	Va3	Va2 (kV)	Val (kV)	Vg (V)	Min. Max. Tested	1016
f	4.0	4.0	2.0	Any con- vonient value	2.0 or = 3	- 80	Grid Insulation 1. Loakage current (µA) - 8 100% 2. Increase in voltmeter reading - 100% 100%	
g	4.0	4.0	2.0	As for Test (f)	2.0	Any con- venient value	Deflection Sensitivities 1. X-plate (mm/V) 0.16 0.20 5%(10) 2. Y-plate (mm/V) 0.21 0.27 5%(10)	
h	4.0	4.0	2.0	As for Test (f)	2.0	As for Test (g)	Deviation of spot from centre of seroen (mm) - 6 100%	
3	50 x	4.0 4.0 2.0 As for Test (f) As for Test (g) Measurement to be made on a raster 50 x 55 mm in the X and Y directions successively.		Useful Screen Area 1. Deflections to cover stated rectangle 2. Deviation of contre of boundary lines of raster from				
							a true roctangle (mm) - ±2 5%	
k	4.0	4.0	2.0	As for Test (f)	2.0	As for Test (g)	1. Orientation of X axis of deflection relative to 00' on drawing 2. Orientation of the diameter through the centre of the snap terminal relative to	
							00' 80° 100° 100%	
m	4.0	4.0	2.0	As for Test (f)	2.0	As for Test (g)	Angle between X and Y axes of deflection 88° 92° 100%	
n	Test tost	shal	l be and	As for Test (f) performed a close ra			Persistence (secs) 4 16 100%	
	-							

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