Specification MOSA/CV1591 to CV1595 inclusive	SECU	RITY
Issue 6 Datedll.ll.55 To be read in conjunction with B.S.448,B.S.1409 & Kl001	Specification UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

----- Indicates a change

TYPE OF VALUES - TYPE OF DEFLECTION -	<u>MARKING</u> See Kl001/4					
TYPE OF FOCUS - BULB - SCREENS -	Electrostatic. Internally coated w conductive coating. Afterglow YYM5 -	CV1591	<u>BASE</u> B • S • 4448/B12D			
PROTOTYPES -	YYM36 - GCM7 - GCM27 - YYM31 - VCR517A - CV1591 VCR517B - CV1593 VCR517C - CV1594 VCR517E - CV1594	CV1593 CV1594	,	<u>co</u>	NNECTIONS Electrode	
Heater Voltage Heater Current Max. Final Anode Volt Max. First Anode Volt x plate Sensitivity y plate Sensitivity TYPICAL OPERATING CON Final Anode Voltage Second Anode Voltage First Anode Voltage	(V) (A) age (kV) age (kV) (mm/V)	4 1 6 2 720/Va3 880/Va3 3 525 2	Note		g k h h al a2 IC y2 x2 x2 x3 x1 y1	

NOTES

- A. This rating applies only at normal atmospheric pressure.
- B. The tube shall be adequately free from microphony.
- C. Absolute Value.

CVI591 TO TO be performed in addition to those applicable in Klool Page 2

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			T	est Condi	tions		Test	Min.	Max.	No. Tested	Note
	2		See	K1001/5A	.13		CAPACITANCES (pF) (1) Each x or y plate to all other electrodes. (2) Grid to all other electrodes (3) One x to one y plate	-	25 25 5	5% (10) 5% (10) 5% (10)	
	Ī	۷h	Va3 (kV)	Va 2	Val (kV)	∇g					
	1	4	0	0	0	0	Ih (A)	0.7	1.3	100%	
,		4	3	Adjust for optimum focus		Adjust to cut-off	Vg (V) Value to be noted	-	-80	100%	
Ċ	1		put o	ditto ted to give f 0.032 ca a close ra	mdel		(1) Vg (V) (2) Change in value of Vg from test (o) (V)	İ	-	100%	
*		tim a l	e bas	ditto ON With a of 10 kc ength of 1 d y direct cocessively	o/s no 130 m otion	om. and m. in	(1) Line width (mm) (2) Va2 (V)		0.8 675	100% 100% 100%	
f		4 3 Any 2 -80 conven- ient value Recommended method Kl001/5A.3.2. Resistor = 5 Megohms				i.	CRID INSULATION (1) Leakage Current (μΑ) (2) Increase in Voltmeter reading	-	16 100%	100%	
8	3	4	3	Adjust for optimum focus	2	Any con- venient value	DEFLECTION SENSITIVITIES (1) x plate (mm/V) (2) y plate (mm/V)	Vaj	790/ Va3 970/ Va3	10% (10) 10% (10)	
h		4	3	ditto	2	ditto	Deviation of spot (mm) from centre of screen	-	10	100%	
CV	I	cir	ole ce	ditto ons to coventred on screen.			USEFUL SCREEN AREA Diameter (mm)	130	-	100%	

TESTS (Continued)

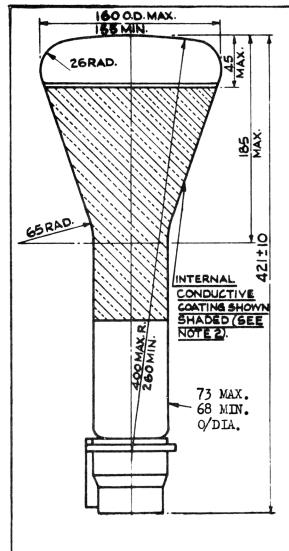
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	Test Conditions			Test	Limits		No.	Note		
							Min.	Max.	Tested	110 66
	٧h	Va3 (kV)	Va2	Val (kV)	۷g					
k	4	3	Adjust for Optimum focus	2	Any	TRAPEZOIDAL DISTORTIONS (1) Angles between opposite sides. (2) Angles between adjacent sides	175° 85°	185° 95°	100%	
1	4	3	ditto	2	ditto	(1) Orientation of x axis of deflection relative to 00' on the drawing. (2) Angle between x and y axes of deflection.	80°	100°	100%	
m	4	3	Un- focussed	2	ditto	The screen shall not be worse for graininess and non-uniformity than a standard tube or pattern			100%	
n	4	3	Adjusted for optimum focus	2	ditto	Afterglow (secs)	5	-	100%	2
р			ditto ster size rightness E.F.C.	of 8		SPECTRAL DISTRIBUTION Ratio:- Light Output Light Output Thro' C2 Filter	_	3	100%	1

NOTE

- It will normally be satisfactory to make a visual examination of the colour of the screen and to apply Test "p" only in cases of doubt.
- This test shall be performed using an approved test set
 The specified figure is for Test Set 331, A.M. Ref. No. 108/696.

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NOTE:

- WHEN VIEWING THE SCREEN WITH THE TUBE POSITIONED SUCH THAT THE BASE SPIGOT IS UPPERMOST, A POSITIVE VOLTAGE APPLIED TO THE TERMINAL XI SHALL DEFLECT THE SPOT TO THE LEFT AND A POSITIVE VOLTAGE APPLIED TO THE TERMINAL YI SHALL DEFLECT THE SPOT UPWARDS.
- 2 THE INTERNAL CONDUCTIVE
 COATING SHALL BE OF SUCH
 DIMENSIONS THAT IT
 FUNCTIONS EFFECTIVELY BUT
 DOES NOT OBSCURE THE
 REQUIRED USEFUL SCREEN
 AREA.
- THE NECK DIA.MAY BE
 REDUCED TO A MINIMUM
 OF 58MM.PROVIDED THAT
 RUBBER RINGS OR OTHER
 APPROVED PACKING IS
 SUPPLIED WITH THE TUBE
 TO BRING THE OVERALL DIA.
 WITHIN THE STATED
 TOLERANCES.

ALL DIMENSIONS IN MILLIMETRES.