Specification AD/07956/Issue 3.

2002220002000 20/ (/4)						
Dated 12.6.47.	Special Valve					
To be read in conjunc	etion with K10	003.	Restric	ted Unclassified		
		AND THE RESIDENCE				
TYPE OF VALVE:	Cathode ray	tube.		MARKING		
TIPE OF DEFLECTION:-	Electrostatio	o.	See K100	3/7.		
. And the second	See Note A.	-		CONTROL CHARLEST AND ADDRESS OF STREET AND ADDRESS OF THE ADDRESS		
TYPE OF FOCUS:	Electrostatio	•	BASE			
	See Note B.		Standard 12-contact			
DITT TO			Contact	The state of the s		
BULB:-	Internally or	oated	1	Mods		
	with conducti	ing	2 3	No commection		
	meterial.			H, C.		
SCREEN:-	- See Note C.					
PROTOTYPE:-						
			5	A1 (See Note F		
RATING	RATING					
Washan Walter /		Note	6	\$2		
,	V) 4.0		7	Conting		
	A) 1.0		8	72		
Max. Va1 (k	V) 2.0		7 8 9	X 2		
Approx. Va2 (focus)(k	V) 1.2	ĺ	10	A3		
Max. Va3		В	11			
	£ 1	1				
			12			
Sensitivity, back	14.90	. 1		DIMENSIONS		
or X-plates (mm/		A	See Draw	ing, Page 4. Note D.		
Sensitivity, front	1270	ľ	wanterston from the similar similar self-	PACKAGING		
or Y-plates (nm/	V) Va3	A	See K100			
	273		DOO NIVV	10		

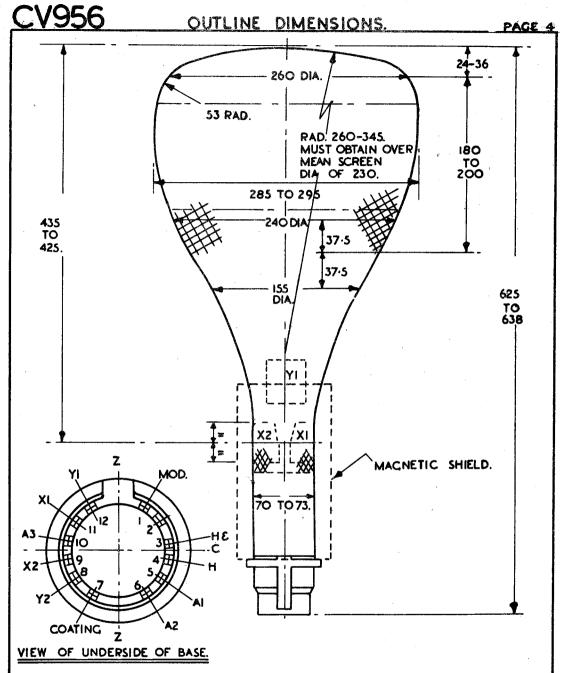
- A. The front or Y-plates, defined as those nearer the screen, shall be suitable for operation with asymmetrical deflecting voltages, and the back or X-plates with symmetrical deflecting voltages.
- B. The tube shall be of three anode construction.
- C. The fluorescence shall be green, with an afterglow which is negligible after an interval not exceeding 0.2 sec. from the cessation of excitation.
- D. The tube shall be supplied fitted with a magnetic shield (length $7\frac{1}{2}$ ", int.dia. $3\frac{3}{4}$ "), secured by rubber spacers and a rubber ring, and fitted with a connecting terminal.
- E. Screen blemishes which impair the performance of the tube must not appear within a rectangle of length 230 mm symmetrical with the X-axis, and width 100 mm. symmetrical with the Y-axis.
- F. Contact No.5 may be left blank, A1 being connected to A2 on contact No.6. Tubes with this type of connection are to be marked with a yellow splash, but may be included in normal deliveries.

TESTS

To be performed in addition to those applicable in K1003.

		Test	Condit	ions			Limits		No.
	٧h	Vmod	Va1	Va2	Va.3	Test	Min.	Max.	Tested
	(A)	(A)	(kV)	(V)	(kV)				
a		!				Capacitances (pF.) i. Each back		20	
		,				plate to all other elec-			6 per
						trodes in- cluding graphite screen.			week
						ii. Each front plate to all other elec- trodes in- cluding graphite screen.	12	20	
ъ	4.0 AC or DC					Ih (A)	0.9	1.2	100%
0	4.0	4.0 Ad- 1.7 Read 6.0 justed		6.0	i. Focus	See K1003/ 5.7. 10		100%	
	Defle	ecting .	voltag	es,		ii. Va2 (V)	960	1440	-
	asymmetrical for front plates and symmetrical for back plates, applied to produce a raster 100 mm square. Vmod adjusted to give a brightness equal to					iii. <u>Sensi-</u> <u>tivities</u>			
						X-plates (mm/V)	1280 Va3	1700 Va3 1400	10 % (2)
	that of standard tube. See K1003/5.7.					Y-plates (front) (mm/V)	1145 Va3	<u>¥83</u>	
						iv. <u>Useful</u> <u>Screen</u> <u>Area</u>	·		
						Along X- axis (mm)	230		100%
						Along Y- axis (mm)	100	-	

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	Test Conditions						Limits		No.
	Vh (∀)	Vmod (V)	Vai (kV)	Va2 (V)	Va3 (kV)	Test	Mn.	Mex.	Tested
å	4.0	Ad- justed	1.7	As test 'c'	6.0	Vmod for cut-off (V)	-22	-50	100%
	See K1003/5.8								
6	4.0		1.7	As test 'c'	6.0	i. Cathode current (mA) ii. Ib	\$60p	600	
	Raster as in test 'c'. Vmod made more +ve by >> 25V. to a value not to be +ve with respect to the cathode.				≯25V。	measured in graphite lead (pA)	ம	750	100%
£	4.0	Ì	1.7	As test 'c'	6.0	Departure of Y-axis from axis	ALL TEACHER CONTROL OF THE CONTROL OF T	15°	100%
	Deflecting voltages applied					ZZ on Drawing, Page 4.			
g	4.0		1.7	As test 'c'	6.0	Deviation of spot from	No. of the Control of	is continued to the state of th	
		See K	1003/	5.10		centre of screen (mm)		25	100%



NOTES: VIEWING THE SCREEN OF THE TUBE WITH THE BASE SPIGOT UPPERMOST AS SHOWN IN THE VIEW OF THE UNDERSIDE OF BASE, A POSITIVE POTENTIAL APPLIED TO CONTACT No II (XI) SHALL DEFLECT THE SPOT TO THE LEFT, AND A POSITIVE POTENTIAL APPLIED TO CONTACT No II (YI) SHALL DEFLECT THE SPOT UPWARDS.

2.ALL DIMENSIONS ARE IN MILLIMETRES.