# VALVE ELECTRONIC CV 2278

#### ADMIRALITY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV2278/Issue 2.	SECURITY		
Dated: 22.7.53.	Specification	Valve	
To be read in conjunction with K1001.	Unclassified	Unclassified	

Backing).  PHOTOTYPE: VCRX353.  RATING  RATING  Note  Pin  Note  Heater Voltage  (V) 4.0 Heater Current  (A) 1.0  Pin  The string of the strin	See K1001/4.  BASE		
PROTOTYPE: VCRX353.  RATING:  RATING:  Note  Pin  Note  Heater Voltage  (V) 4.0  Heater Current  (A) 1.0  7 Heat  Maximum Anode Voltage (kV) 5.0  Rating Anode Voltage (kV) 5.0  Rating Anode Voltage (kV) 5.0  Catil	IO		
RATING 2 Hear Pin Note 4 Pin Heater Voltage (V) 4.0 6 Pin Heater Current (A) 1.0 7 Hear Maximum Anode Voltage (kV) 5.0 8 Catal	Electrode		
RATING 3 Pin Note 4 Pin Heater Voltage (V) 4.0 6 Pin Heater Current (A) 1.0 7 Heat Maximum Anode Voltage (kV) 5.0 8 Cati	o connection		
Heater Voltage (V) 4.0 6 Pin Heater Current (A) 1.0 7 Heat Maximum Anode Voltage (kV) 5.0 8 Cati	in omitted		
Contact Ano Side Contact-	in omitted eater athode mode		

#### NOTE

The gun assembly shall be sufficiently robust to withstand considerable mechanical shocks without suffering displacement.

Z.5106.R.

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To be performed in addition to those applicable in K1001.

	Tes	t Condi	tions	·		Limi ts		No.
	Vh	Va(kV)	<b>∀g</b> ;	Test	Nin.	Max.	Tested	
				Capacitance	(pF)			5%
				Grid to all electrodes.		•	25	(5)
Ъ	4.0	0	0	Ih	(A)		1.2	100%
C	4.0	4.0	Adjus <b>te</b> d	Line Width	(mm)	-	0.5	100%
	Focus adjusted for optimum.			Deflection - With a linear scan, with a repetition frequency of 10 Kc/s. and a line length 180 mm, the line width will 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' the nominal value of pulse duration and recurrence rate being 100 usecs. and 100 c/secs. respectively.				and a th will trace. sitively l to the cominal crence
đ			Adjusted		/2	To be at least 1V negative to cathode		100%
	a light output of 0.13 candles.			ii. Focus o	(mA)	.80	120	T.A.
•	4.0	4.0	Adjusted to cut off	ii. Increas	rom	<b>-3</b> 0	<b>-</b> 65 30	100%

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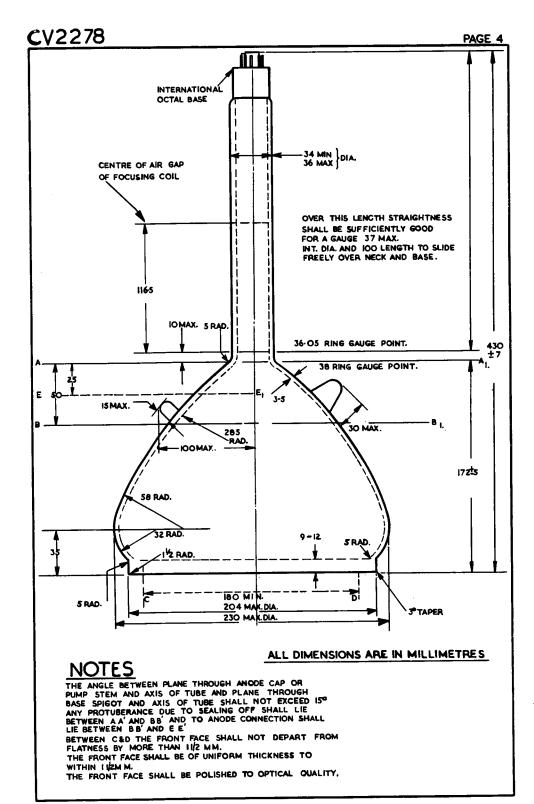
## TESTS (Contd.)

	Test Conditions		tions		Limita		No
	Vh	As(KA)	Vg	Test	Min.	Kaz.	Tested
f	ohms		-65 10 <b>Neg</b> -	Grid Insulation Leakage current (MA) Increase in volt- meter reading.		6•5 100%	100%
g	4.0	4.0	Within working range	Useful Screen Area	180	-	100%
	Focus adjusted to optimum.		<b>604 00</b>				
h	4.0	4.0	Within working range.	Deviation of spot from centre of screen. (sm)		10	100%
	No focussing coil energisation.		_				
j	Test close venic	Set 33	done with t using a r of con- e, and an	Afterglow (secs).	8	•	10%

### NOTE

For the purpose of tests 'c', 'd', 'e', 'g' and 'j' the focusaing fields required are to be obtained by means of an approved focus coil in the position shown on the drawing.

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