

VALVE ELECTRONIC **CV 1733**

GENERAL POST OFFICE: E-IN-C ( S )

(PO TCR1)

Specification: G.P.C./CV 1733/Issue 1 Dated: 11-4-47 To be read in conjunction with K 1003	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

-----> indicates a change

<u>TYPE OF DEFLECTION:</u> Electrostatic <u>CATHODE:</u> Directly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE:</u> 4018 AG			<u>MARKING</u>  See K 1003/7	
<u>RATING</u>		Note	<u>BASE</u> See drawing on page 3	
Filament voltage	(V) 0.7		<u>CONNEXIONS</u> See drawing on page 3	
Nominal filament current	(A) 0.85	A	<u>DIMENSIONS</u> See drawing on page 3	
Anode voltage	(V) 300.0		<u>PACKING</u> See K 1003/8	
Shield voltage	(V) 60.0			
X - plate sensitivity	(mm/V) 1.15			
Y - plate sensitivity	(mm/V) 1.0			
Afterglow of screen	(mS) 10.0			
<u>NOTE</u>  A. Green spot for visual work.				

TESTS

To be performed in addition to those applicable in K 1003

	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
	If (A)	Va	Vs		Min.	Max.		
(a)	0.85	-	-	V <sub>f</sub> (V)	-	0.7	100%	
(b)	0.85	300	Read	V <sub>s</sub> (V)	-	70.0	100%	1
(c)	A sinusoidal 50 c/s voltage of 23 volts R.M.S. shall be applied between the X & Y plates via a suitable phase-splitting device, adjusted to produce a circular trace upon the fluorescent screen.				-	-	100%	
(d)	0.85	300	Note 2	Diameter of circular trace (mm)	50.0	60.0	100%	2,3
(e)	0.85	300	Note 2	Spot diameter (mm)	-	1.0	100%	2
(f)	0.85	300	Note 2	Deviation of spot from centre of screen (mm)	-	10.0	100%	2
(g)	0.85	300	Note 2	Focus and brilliance	To be no worse than a standard tube		100%	2
(h)	The complete trace shall be visible in detail and of stationary pattern when a sinusoidal 5000 c/s voltage of 25 volts R.M.S. is introduced in series with the anode potential.				-	-	100%	
<u>NOTES</u>								
1. V <sub>s</sub> adjusted to produce optimum brilliance and definition of the circular trace								
2. V <sub>s</sub> = value obtained in test (b)								
3. The diameter of the circular trace produced shall not deviate by more than 3 mm.								

## OUTLINE DRAWING

