VALVE ELECTRONIC CV 1733

(PO TCR1)

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

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

---> indicates a change

TYPE OF DEFLECTION: Electrostatic
CATHODE: Directly heated
ENVELOPE: Unmetallised glass
PROTOTYPE 4018 AG

MARKING

See K 1003/7

RATING			Note
Filament voltage	(V)	0.7	
Nominal filament current	(A)	0.85	
Anode voltage	(V)	300.0	
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	A

BASE

See drawing on page 3

CONNEXIONS

See drawing on page 3

DIMENSIONS

See drawing on page 3

PACKING

See K 1003/8

NOTE

A. Green spot for visual work.

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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	-	-	Vf (V)	-	0.7	100%	
(b)	0.85	300	Read	Vs (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%	

NOTES

1. Vs adjusted to produce optimum brilliance and definition of the circular trace
2. Vs = value obtained in test (b)
3. The diameter of the circular trace produced shall not deviate by more than 3 mm.

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OUTLINE DRAWING