

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1172/Issue 3. Dated 22.10.45. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

<u>TYPE OF VALVE:-</u> Variable mu, H.F. Pentode.		<u>MARKING</u>		
<u>CATHODE:-</u> Indirectly Heated.		See K1001/4.		
<u>ENVELOPE:-</u> Glass: Metallised.				
<u>PROTOTYPE:-</u> VP4A.				
<u>RATING</u>		Note	<u>BASE</u>	
Heater Voltage (V)	4.0	A	B7. See K1001/D5.3.	
Heater Current (A)	1.2		Pin	Electrode
Anode Voltage (V)	200		1	Metallising
Screen Voltage (V)	100		2	Control Grid
Mutual Conductance (mA/V)	2.5		3	Suppressor Grid
			4	Heater
<u>CAPACITANCES (pF. approx.)</u>			5	Heater
Anode - G1 (max.)	0.006		6	Cathode
Input	12.5		7	Screen Grid
Output	10.2		TC	Anode
<u>NOTES</u>		<u>TOP CAP</u>		
A. At $V_a = 200$ V, $V_{g2} = 100$ V, $V_{g1} = -2$.		See K1001/AI/D5.		
		<u>DIMENSIONS</u>		
		See K1001/AI/D1.		
		Dimension	Min.	Max.
		A mm	-	50
		B mm	-	140

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits		No. Tested
	Vf (V)	Vg1 (V)	Vg2 (V)	Va (V)		Min.	Max.	
a	4				I _f (A)	1.1	1.3	1% (20)
b	4	-2	100	200	-I _g (μA)	-	1.0	100%
c	4	-2	100	200	I _{g2} (mA)	1.0	2.0	10% (50)
d	4	-2	100	200	I _a (mA)	2.5	5.0	100%
e	4	-10	100	200	I _a (mA)	0.02	0.3	100%
f	4	0	100	200	I _a change (mA)	3.5	6.5	100%
Change in I _a from value in test 'd' observed.								