

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1197/Issue 4. Dated 21.7.47. To be read in conjunction with K1001, ignoring clauses:- 5.2.1; 5.2.2; 5.3.	<table border="1"> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specn.</u></td><td><u>Valve</u></td></tr> <tr> <td>Restricted</td><td>Unclassified</td></tr> </table>	<u>SECURITY</u>		<u>Specn.</u>	<u>Valve</u>	Restricted	Unclassified
<u>SECURITY</u>							
<u>Specn.</u>	<u>Valve</u>						
Restricted	Unclassified						

<u>TYPE OF VALVE:-</u> Triode for operation as an oscillator at frequencies up to 600 Mc/s.			<u>MARKING</u> See K1001/4.	
<u>CATHODE:-</u> Indirectly Heated, Oxide Coated.				
<u>ENVELOPE:-</u> Glass, see page 3.				
<u>PROTOTYPE:-</u> RL18.			<u>BASE AND DIMENSIONS</u>	
<u>RATING</u>			Note	
Heater Voltage	(V)	6.3	See page 3.	
Heater Current	(A)	0.25		
Max. Anode Voltage	(V)	250		
Max. Anode Dissipation	(W)	2.5		
Max. V_{h-c}	(V)	40		
Anode Current	(mA)	7.5		
g_m	(mA/V)	2.9		
R_a	(ohms)	11,500		
<u>CAPACITANCES (pF.)</u>			<u>GAUGES</u> A.S.E. Gauges Nos. 328 and 329A and B check dimensions. See pages 4 and 5.	
C_{a-c}	(max.)	0.69		
C_{g-c}	(mean)	1.25		
C_{a-g}	(mean)	1.33	<u>PACKAGING</u> See K1005.	

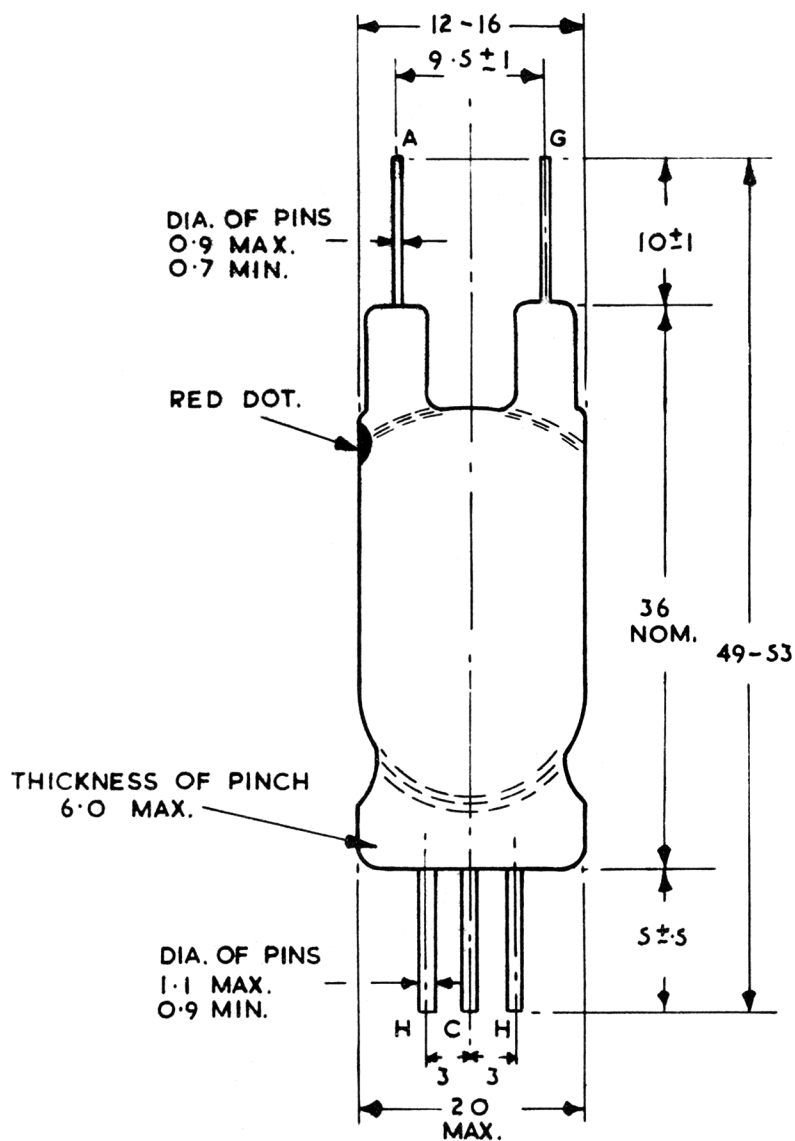
NOTESA. $V_a = 200$ V, $V_g = -3.3$ V.

B. It is desirable that at least one week shall elapse between the pumping and final testing of the valves.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested
	V _h (V)	V _a (V)	V _g (V)		Min.	Max.	
a	6.3	V _a -c = 200 V through 10 megohms with C + ve.		A-C Leak (μA)	-	6.0	5% (5)
b	6.3	V _g -c = 200 V through 10 megohms with C + ve.		G-C Leak (μA)	-	6.0	5% (5)
c	6.3	V _c -h = 50 V through 1 megohm with C + ve.		H-C Leak (μA)	-	14.5	5% (5)
d	6.3			I _h (mA)	225	275	100%
e	6.3	200	0	I _a (mA)	13	26	100%
f	6.3	200	-4	I _a (mA)	3	8	100%
g	6.3	200	-8	I _a (mA)	-	1.0	100%
h	6.3	200	-1.5	Reverse I _g (μA)	-	0.75	100%
	With 0.1 megohms in the cathode grid lead.						
j	6.3	15 AC	15 AC	I _e (mA)	15	-	100%
k	See K1001/AlII.			<u>Capacitances (pF.)</u>			
	Links to H.P.	Links to L.P.	Links to E.				
	TC1	1,2,3.	TC2,4, 5,6,7, 8,9,10.	Ca-c	0.45	0.69	6
	TC2	1,2,3.	TC1,4, 5,6,7, 8,9,10.	Cg-c	1.1	1.4	per
	TC2	TC1	1,2,3, 4,5,6, 7,8,9, 10.	Ca-g	1.15	1.51	week



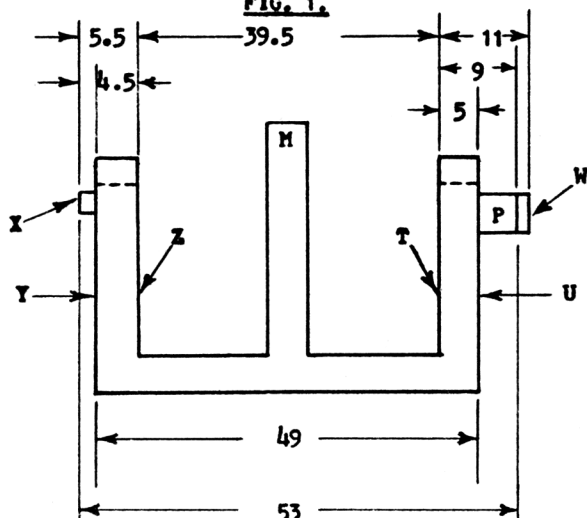
ALL DIMENSIONS ARE IN MILLIMETRES.

GAUGES

A.S.E. gauges Nos. 328 and 329A and B are available for checking the dimensions of

- Gauge No. 328 : Checks:- Max. glass length.
Max. glass body diameter.
Max. and min. seal wire lengths.
Disposition of all seal wires.
Max. overall length.
- Gauge No. 329A
(GO and NOT GO) : Checks:- Max. and min. diameters of
anode and grid seal wires.
- Gauge No. 329B
(GO and NOT GO) : Checks:- Max. and min. diameters of
filament seal wires.

The essential dimensions of these gauges and the method of using are as follows:-

SIDE VIEWFIG. 1.

Dimensions: Millimetres.
Unessential dimensions are not given.

Use: Gauge No. 328.
(See Fig.1.)

- (a) Max. Glass Length. The valve should sit easily in the gauge.
- (b) Seal Disposition. Channels at F and A check filament and anode/grid seals' dispositions respectively.
- (c) Filament Seal Length. Push the glass of the filament seal pinch against the surface Z. Then ends of filament seals should lie between surfaces X (the end of the dowl pin) and Y.

