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VALVE ELECTRONIC CVIS (NR88)

ADMIRALITY 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.

SECURITY

Specn.

Valve

Unclassified

the state of the s			+ 			
TYPE OF VALVE:-	as an oscillator at frequencies up to 600 Mc/s.			MARKING See K1001/4.		
ENVELOPE:- PROTOTYPE:-	Oxide Coated. Glass, see page 3. RL18.			BASE AND DIMENSIONS		
Heater Voltage Heater Current Max. Anode Voltag	RATING (V) (A) e (V)	6•3 0,25 250	Note	See page 3.		
Max. Anode Dissip Max. Vh-c Anode Current gm Ra		2.5 40 7.5 2.9 11,500	A A A	GAUCES A.S.E. Gauges Nos. 328 and 329A and B check		
Capacitances Ca-c (max.) Cg-c (mean) Ca-g (mean)	(pF.)	0.69 1.25 1.33		dimensions. See pages 4 and 5. PACKAGING See K1005.		

NOTES

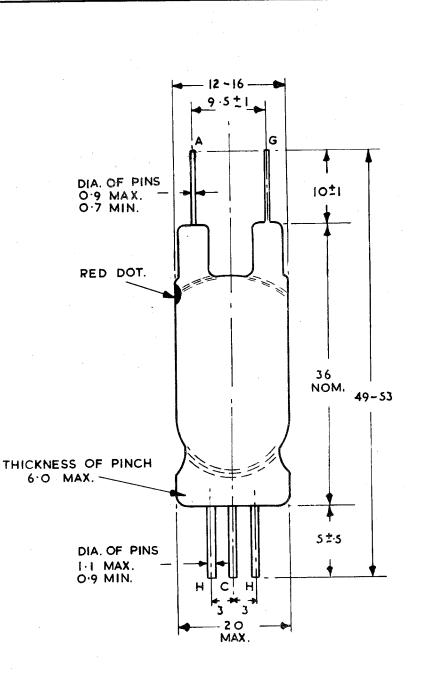
A. Va = 200 V, Vg = -5.3 V.

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.

 1						prophosological veloc		
	Test Conditions			Test		Limits		No.
	Vh (V)	(V)	v g (v)		to tage and a second second	Min.	Max.	Tested
a	6.3	Va-c =	200 ₹	A-C Leak	(ALI)	-	6.0	5 % (5)
	through 10 megohms with C + ve.							
ъ	6.3	Vg-c =	200 V	G_C Leak	(pA)		6.0	5 % (5)
	through 10 megohms with C + ve.							
c	6.3	Vc-h =	50 ₹	H-C Leak	(AA)	-	14.5	5% (5)
	through 1 megohm with C + ve.			·				
đ	6.3			Ih	(mA)	225	275	100%
е	6.3	200	0	Ia	(mA)	13	26	100%
f	6.3	200	-4	Ia	(mA)	3	8	100%
g	6.3	200	- 8	Ia	(mA)		1.0	100%
h	6.3	200	-1.5	Reverse Ig	(µA)	-	0.75	100%
	With 0.1 megohms in the cathode grid lead.					,		
j	6.3	15 AC	15 AC	Ie	(mA)	15		100%
k	k See K1001/AIII.		Capacitances (pF.)			,	
	Links		Links					
	to H.P.	to L.P.	to E.					
	TC1	1,2,3.	TC2,4,			0.5	0.60	6
		•	5 ,6,7, 8 ,9,1 0.	Ca-c		0.45	0.69	
-	TC2	1,2,3.				1.1	1.4	per
							- 	
	TC2	TC1	1,2,3, 4,5,6, 7,8,9,	Ca-g		1.15	1.51	week



ALL DIMENSIONS ARE IN MILLIMETRES.

CVI197

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.

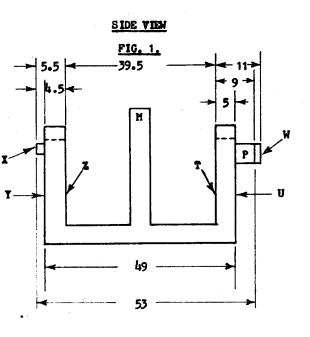
Gauge No. 329A

(GO and NOT GO)

<u>Checks:-</u> Max. and min. diameters of anode and grid seal wires.

Gauge No. 329B : Checks:- Max. and min. diameters of (GO and NOT GO) filament seal wires.

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



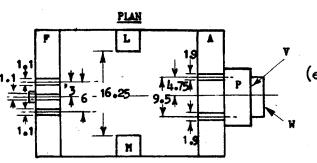
<u>Dimensions</u>: <u>Willimetres</u>.

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.
- 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.



(d) Anode/grid Seals' Length.

Push the glass of the anode/grid seal pinch against the surface T.

Then ends of anode/grid seals should lie between surfaces V (shoulder of platform P) and W.

(e) Overall Length. With ends of filament seals in plane Y, the ends of the anode/grid seals should fall between surfaces U and V.

(f) Max. Width of Bulb. This dimension is proved satisfactory if the valve fits between the uprights L and M.

(A steel rule may conveniently be used in the above operations).

Gauge No. 329A and B. This gauge consists of a piece of metal slotted in four places to widths corresponding to the maximum and minimum permissible diameters of the rilament and anode/grid seals. The wires should "go" into the corresponding "maximum" slot, but not into the corresponding "minimum" slot.