

Ministry of Aviation D.L.R.D./R.A.E.

Specification M.O.A./CV.8487 Issue No.1 Dated 4-9-64 To be read in conjunction with K1001, BS448, and B.S. 1409	<table border="1"> <tr> <th colspan="2">SECURITY</th></tr> <tr> <th>Specification</th><th>Valve</th></tr> <tr> <td>Unclassified</td><td>Unclassified</td></tr> </table>	SECURITY		Specification	Valve	Unclassified	Unclassified
SECURITY							
Specification	Valve						
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TYPE OF VALVE: Corona Stabiliser Valve.			<u>MARKING</u>		
CATHODE: Cold.			See K1001/4.		
ENVELOPE: GLASS.			<u>BASE</u>		
PROTOTYPE: CV2458.			BS.448/B7G.		
<u>RATINGS</u> (All limiting values are absolute)			<u>CONNECTIONS</u>		
			PIN	ELECTRODE	
Normal Operating Current	(μA)	250	1	No connection NC	
Average Incremental Resistance	($\frac{\Omega}{A}$)	50	2	No connection NC	
Temperature Stability	(% per C)	0.01	3	No connection NC	
			4	No connection NC	
Operating Voltage	(V)	600	5	No connection NC	
Max. Stable Current	(μA)	300	6	No connection NC	
Min. Stable Current	(μA)	10	7	Cathode	k
			Top Cap	Anode	a
<u>NOTES</u> A. The Joint Service Catalogue number is:- 5960-99-037-3717			<u>DIMENSIONS</u>		
			BS.448/B7G/2.2 Size Ref.No.4		
			DIMENSIONS(mm)	MIN.	MAX.
			"A" Seated Hgt.	57.2	66.7
			"C" Diameter	16	19
			"D" Overall Length	-	73.8
			<u>TOP CAP</u>		
			BS.448/CT1		

(228857)

TESTSTo be performed in addition to K1001

All tests are to be performed in the specified order with the valves mounted in total darkness except where otherwise stated, in an ambient temperature of $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$							
	Test Conditions	Test	Test Unit	Limits		No. Tested	Notes
				Min	Max		
a	Ia 250 μa	<u>Operating Voltage</u> After $\frac{1}{2}$ min. run in air at $25 \pm 5^{\circ}\text{C}$	V	580	620	100%	-
b	Ia varied between 10 and 300 μa	<u>Noise Voltage</u> After $\frac{1}{2}$ min. run at $25 \pm 5^{\circ}\text{C}$	mV	-	300	100%	1. 2.
c	Ia 250 μa	<u>Noise Voltage</u> During first 10 min. after immersion in oil at $120 \pm 2^{\circ}\text{C}$	mV	-	300	100%	1. 2.
d	Ia 250 μa	<u>Operating Voltage</u> After 10 min. in oil at $120 \pm 2^{\circ}\text{C}$ running at 250 μa	V	-	-	100%	3.
e	Ia 250 μa	<u>Operating Voltage</u> After 230 \pm 10 min. in oil at $120 \pm 2^{\circ}\text{C}$ and running at 225 \pm 25 μa	V	-	-	100%	3.
f	Ia varied between 10 and 300 μa	<u>Noise Voltage</u> After run as in test 'e'	mV	-	300	100%	1. 2.
g	Repeat tests 'a' and 'b'	28 day storage at room temperature		as for 'a' and 'b' above			

Note 1. Voltage refers to peak value.

Note 2. Measured by an oscilloscope of approx. 500,000 ohms input impedance and sensitivity of about 1v per cm. Oscilloscope coupled to anode of tube by a 1000 pf capacitor. The minimum value of resistance in series with tube under test is to be 330,000 ohms.

Note 3. The voltage on an individual tube is to be within + 2% and - 2% of the value obtained in test "a".