

C.V. 6065
C.V. 6066
C.V. 6067

Specification MQA/CV. 6065 CV. 6066 CV. 6067	<u>SECURITY</u>
Issue No. 1 Dated 14.7.60.	<u>SPECIFICATION</u> <u>VALVE</u>
To be read in conjunction with K.1001, BS.448 and BS.1409	Unclassified Unclassified

TYPE OF VALVE: Corona Stabiliser Valves.			<u>MARKING</u> See K.1001/4.		
CATHODE: Cold.			<u>BASE</u> BS.448/B7G		
ENVELOPE: Glass.					
PRCTCTY-E: SC1/1600, SC1/1800, SC1/2000					
<u>RATINGS</u> (All limiting values are absolute)			<u>CONNECTIONS</u>		
			PIN	ELECTRODE	
<u>Operating Voltage</u>			1	No connection NC	
CV.6065	(V)	1600	2	No connection NC	
CV.6066	(V)	1800	3	No connection FC	
CV.6067	(V)	2000	4	No connection NC	
Normal Operating Current	(μA)	250	5	No connection NC	
Average Incremental Resistance	(KΩ)	50	6	No connection NC	
Temperature Stability	(%/°C)	0.01	7	Cathode	k
Minimum Stable Current	(μA)	20	Top Cap	Anode	a
Maximum Stable Current	(μA)	600			
			<u>DIMENSIONS</u> BS.448/B7G/2.2 Size Ref. No. 4.		
			DIMENSIONS (mm)		MIN. MAX
			"A" Seated Height		57.2 66.7
			"C" Diameter		16 19
			"D" Overall Length		- 73.8
			<u>TOP CAP</u> BS.448/CT1.		
<u>NOTES</u>					
A. For stabilisers to operate within the range 350 to 1400V, see Specification CV2456, 57, 58, 59, 60, 61 and 62.					
B. The Joint Service Catalogue Numbers are:- CV6065:- 5960-99-037-2276 CV6066:- 5960-99-037-2277 CV6067:- 5960-99-037-2278					

To be performed in addition to K.1001

All tests are to be performed in the specified order with the valves mounted in total darkness and except where otherwise stated in an ambient temperature of $20^{\circ} \pm 5^{\circ}\text{C}$.

The tests specified in clauses "b" to "g" inclusive are to be performed at least 28 days after Test "a".

	Test Conditions	Test	Limits		No. Tested	Notes
			Min.	Max.		
a	Adjust $I_a = 250\mu\text{A}$	<u>Operating Voltage</u> CV. 6065 (V) 1560 1640 CV. 6066 (V) 1755 1845 CV. 6067 (V) 1950 2050			100%	1 & 2
b	Adjust $I_a = 250\mu\text{A}$	<u>Operating Voltage</u> CV. 6065 (V) 1560 1640 CV. 6066 (V) 1755 1845 CV. 6067 (V) 1950 2050			100%	1, 2 & 3
c	Adjust $I_a = 600\mu\text{A}$	<u>Current Stability</u> Meter Fluctuations (μA)	-	5	100%	4
d	Adjust $I_a = 20\mu\text{A}$	<u>Current Stability</u> Meter Fluctuations (μA)	-	5	100%	4
e	Adjust $I_a = 225\mu\text{A}$	<u>Regulation (1)</u> (1) Test as in Test 'b' above but with test conditions modified as in Test Condition column at left. (2) Change in operating voltage between values found in Test 'b' and Test 'e(1)':- CV. 6065 (V) - 4.5 CV. 6066 (V) - 5.5 CV. 6067 (V) - 6.5			100%	2 & 5
f	Adjust $I_a = 275\mu\text{A}$	<u>Regulation (2)</u> (1) Test as in Test 'b' above but with test conditions modified as in Test Condition column at left. (2) Change in operating voltage between values found in Test 'b' and Test 'f(1)':- CV. 6065 (V) - 4.5 CV. 6066 (V) - 5.5 CV. 6067 (V) - 6.5			100%	2 & 5

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	Test Conditions	Test	Limits		No. Tested	Notes
			Min.	Max.		
g	The valve to be run for a minimum period of 7 hours with $I_a = 250\mu A$.	<u>Stability Test</u> (1) Test as in Test 'b' above but with test conditions modified as in Test Condition column at left. (2) Change in operating voltage between values found in Test 'b' and Test 'g(1)':- CV. 6065 (V) - 4.0 CV. 6066 (V) - 4.5 CV. 6067 (V) - 5.0			100%	2 & 6
h	Adjust $I_a = 250\mu A$. <i>Ambient Temperature = 20°C</i> Ambient Temperature = $\pm 70^\circ C$	<u>Temperature Stability</u> (1) Test as in Test 'b' but with Test Conditions modified as in Test Condition column at left. (2) Test as in Test 'b' but with Test Conditions modified as in Test Condition column at left. (3) Change in operating voltage between values obtained in Test 'h(1)' and Test 'h(2)' CV. 6065 (V) - 24 CV. 6066 (V) - 27 CV. 6067 (V) - 30			T.A.	2 & 5

NOTES

- The valves shall have been in the ageing rack immediately prior to Test 'b'. They shall be quickly transferred to the test position. Time taken to strike shall be less than 0.5 secs.
- The values of operating voltage are to be recorded.
- An increase in voltage between the value obtained in Test 'b' and that recorded in Test 'a' shall not be greater than 5V.

Should the value of operating voltage recorded in Test 'b' be higher than that specified above, the valves are to be held for a further minimum period of 28 days when if the upward drift is still evident the valve shall be rejected.
- To be performed in an approved circuit.
- Tests to be completed within 30 secs.
- On completion of Test 'f' the valves shall be run for the seven hour stability test. The conditions of Note 1 shall apply.

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION MOA/CV6065, CV6066, CV6067
ISSUE NO. 1 DATED 14.7.60

AMENDMENT NO. 1

Page 3. Clause h. Temperature Stability Test (1)

In Column headed "Test Conditions," immediately under
"Adjust Ia = 250 uA"

Add "Ambient Temperature = -20°C."

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TVC for RAE

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