SPECIFICATION MOS/CV-2456,57,58,59,60,61,62. ISSUE No.1 DATED 1.4.58.

AMENDMENT No. 1 DATED 1.3.59.

Page 1 Dimensions

Amend the dimensions for "A" Seated Height and "D" Overall Length to read as follows:-

DIMENSIONS (mm)	MIN.	$\underline{\text{MAX}}$
"A" Seated Height	57.2	66.7
"D" Overall Length	_	73.8

February, 1959 N.54377/D T.V.C. for R.A.E.

VALVES ELECTRONIC

Page No. 1 (No. of Pages 4)

MINISTRY OF SUPPLY D. L. R. D. /R.A.E.

CV2456,57,58,59,

CV 2460, 61, 62

Specification MOS/CV.2456, CV.2457, CV.2458, CV.2459, CV.2460, CV.2461, CV.2462.	SECURITY			
Issue No. 1 Dated 1.4.58	SPECIFICATION VALVE			
To be read in conjunction with K.1001, BS.448 and BS.1409	Unclassified Unclassified			

TYPE OF VALVE:	Corona Stabili	ser Valves.			MARKIN	<u>G</u>			
CATHODE:	Cold				See K. 1001/4.				
envelope:	Glass.				BASE				
Prototy pe:	SC1/350, SC1/4 SC1/1000, SC1/	.00, SC1/600, 1200, SC1/140	sc 1/800, 00.		BS.448/B7G.				
(<u>A</u> 11:	RATINGS limiting values		·)		CONNECTI	ONS			
·	_			PIN	RI	ECTROD	E		
Normal Operating Average Increment Temperature Stab	tal Resistance	(μA) (KΩ) (% per °C)	250 50 0.01	1 2 3 4	No conn No conn No conn	ection ection	NC NC		
CV.2456 Operating Voltag Max. Stable Curr Min. Stable Curr	rent	(V) (AA) (AA)	350 300 5	5 6 7 Top Ç a p	No conn No conn Cathode Anode	ection			
CV. 2457 Operating Voltag Max. Stable Curr Min. Stable Curr	rent	(V) (μλ) (μλ)	400 300 5	BS.446/B	DIMENSIONS BS.446/B75/22 Size Ref. No.4				
CV. 2458 Operating Voltag Max. Stable Curr Min. Stable Curr	rent	(V) (µA) (µA)	600 300 10	"A" Seat	"A" Seated Height 55.5 6		MAX. 65		
CV. 2459 Operating Voltag Max. Stable Curr Min. Stable Curr	rent	(V) (<u>A</u> A)	800 400				72.5		
CV. 2460 Operating Voltag Max. Stable Curr Min. Stable Curr	ge rent	(V) (MA)	1000 400 20		TOP CAP BS.448/CT1.				
CV.2461 Operating Voltag Max. Stable Cur: Min. Stable Cur:	rent	(V) (µk) (µk)	1200 500 20						
CV.2462 Operating Voltag Max. Stable Cur: Min. Stable Cur:	rent '	(V) (µA) (µA)	1400 500 20				, i		

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 25° ± 5°C.

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

		Test Conditions	Teat	Limits		No.	
		Test Conditions	Test	Min.	Max.	Tested	Notes
	A	Adjust Ia = 250μA.	Operating Voltage CV.2456 (V) CV.2457 (V) CV.2458 (V) CV.2459 (V) CV.2460 (V) CV.2461 (V)	335 380 580 780 975 1170 1365	365 420 620 820 1025 1230 1435	100%	1&2
	b	Adjust Ia = 250μA.	Operating Voltage CV.2456 (V) CV.2457 (V) CV.2458 (V) CV.2459 (V) CV.2460 (V) CV.2461 (V) CV.2462 (V)	335 380 580 780 975 1170 1365	365 420 620 820 1025 1230 1435	100%	1, 2 & 3
	c	Adjust Ia:- CV.2456 = 300µA CV.2457 = 300µA CV.2458 = 300µA CV.2459 = 400µA CV.2460 = 400µA CV.2461 = 500µA CV.2462 = 500µA	Current Stability Meter Fluctuations (µA)		5	100%	4
	đ	Adjust Ia:- CV.2456 = 5µA CV.2457 = 5µA CV.2458 = 10µA CV.2459 = 15µA CV.2460 = 20µA CV.2461 = 20µA CV.2462 = 20µA	Current Stability Meter Fluctuations (μΔ)	84	5	100%	4

CV.2456/1/2

	Test Conditions Test			nits	No. Tested	Notes
		Regulation (1)				
	Adjust Ia = 225μA	(1) Test as in Test 'b' above but with test conditions modified as in Test Condition column at left.			100%	2 & 5
е		(2) Change in operating voltage between values found in Test 'b' and Test 'e(1)':-				
		CV.2456 (V) CV.2456 (V) CV.2458 (V) CV.2459 (V) CV.2460 (V) CV.2461 (V) CV.2462 (V)	-	1.0 1.0 1.5 2.0 2.5 3.0 3.5		
				,,,		
	Adjust Ia = 275µA	Regulation (2) (1) Test as in Test 'b' above but with test conditions modified as in Test Condition column at left.			100%	2 & 5
f		(2) Change in operating voltage between values found in Test 'b' and Test 'f(1)':-		-		
		CV.24.56 (V) CV.24.57 (V) CV.24.58 (V) CV.24.59 (V) CV.24.60 (V) CV.24.61 (V)	-	1.0 1.0 1.5 2.0 2.5 3.0 3.5		
		Stability Test				
	The valve to be run for a minimum period of 7 hours with Ia = 250µA	(1) Test as in Test 'b' above but with test conditions modified as in Test Condition column at left.			100%	2 & 6
g		(2) Change in operating voltage between values found in Test 'b' and Test 'g(1)':-				·
		CV.2456 (V) CV.2457 (V) CV.2458 (V) CV.2459 (V) CV.2460 (V) CV.2461 (V) CV.2462 (V)	111111	2.0 2.0 2.0 2.0 2.5 3.0 3.5		

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CV2460,61,62

	Test Conditions	Test		Test Limits	nits	No.	Notes
	1050 00110110110			Max.	Tested	Notes	
		Temperature Stability					
	Adjust Ia = 250µA. Ambient Temperature = -20°C.	(1) Test as in Test 'b' but with Test Conditions modified as in Test Condition column at left.			T.A.	2 & 5	
h	Ambient Temperature = +70°C.	(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.2456 (V) CV.2457 (V) CV.2458 (V) CV.2459 (V) CV.2460 (V) CV.2461 (V) CV.2462 (V)	11111	17.5 4.0 6.0 8.0 10.0 12.0 21.0			

NOTES

- 1. 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.
- 3. An increase in voltage between the value obtained in Test 'b' and that recorded in Test 'a' within the following limits is permissible:-

Valve Type	Allowable increase in Test 'b' from Test 'a'
CV.2456, CV.2457	10 volts.
CV.2458, CV.2459, CV.2460, CV.2461, CV.2462.	5 volts.

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.

- 4. To be performed in an approved circuit.
- 5. Tests to be completed within 30 secs.
- 6. On completion of Test 'f' the valves shall be run for the seven hour stability test. The conditions of Note 1 shall apply.

CV.2456/1/4