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CV2456,57,58,59, CV2460,61,62

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

Specification NDS/CV.2456, CV.2457, CV.2458, CV.2459, CV.2460, CV.2461, CV.2462.		ITY
Issue No. 1 Dated 1.4.58	SPECIFICATION	<u> avlav</u>
To be read in conjunction with K.1001, BS.448 and BS.1409	Unclassified	Unclassified
	1	

TYPE OF VALVE:	Corona Stabili	ser Valves.			İ	MARKIN	<u>G</u>	
CATHODE: Cold			See K. 1001/4.					
ENVELOPE:	Glass.							
PROTOTYPE:	SC1/350, SC1/4	00, SC1/600,	<b>SC1/</b> 800	ο,		BASE		
	SC1/1000, SC1/	1200, SC1/140	ω. ΄			BS.448/E	7G.	
(All	RATINGS limiting values		)			CONNECTI	ONS	
•	·				PIN	EI	ECTROI	OE SIC
Normal Operating		( µA )	250		1	No conn		
Average Increment Temperature Stal		(KΩ) (% per °C)	50 0.01		2 3	No conn		
remperature Stat	JIIIUy	(% per o)	0.01		4	No conn		
CV. 2456		(**)	750		5	No conn		
Operating Voltage Max. Stable Cur:		(V) (ДД)	350 300		7	No conn		ı NC k
Min. Stable Cur		$(\mu \Delta)$	5		Top Cap	Anode		8.
CV. 2457		(11)	400			DT) ANNUT C		
Operating Voltage Max. Stable Cur:		(V) (AL)	300		DIMENSIONS			
Min. Stable Cur		(μ <u>λ</u> ) (μ <b>λ</b> )	5		BS.446/B7G/2.2 Size Ref. No.			No.4
CV.2458 Operating Voltage	7 <b>e</b>	(v)	600		DIMENSIC	NS (mm)	MIN.	MAX.
Max. Stable Cur	rent	$(\mu \mathbf{A})$	300		"A" Seated Height 55.5		55.5	65
Min. Stable Cur	rent	(μ <b>λ</b> )	10		"C" Diam	-	57.2 16	65-7
CV.2459					"D" Over		10_	72.5
Operating Voltag		(v)	800 400		Leng	th	_	73.8
Min. Stable Cur		(μΑ) (μΑ)	15					L
<b>CV.</b> 2460						TOP CA	P	
Operating Voltage	ge	(ν)	1000			BS.448/0	T1.	
Max. Stable Cur:	rent	(μλ.)	400					
Min. Stable Cur	rent	( <i>µ</i> <b>A</b> )	20					
CV. 2461		(77)	4000		1			
Operating Voltage Max. Stable Cur:		(∀) ( <u>#</u> A)	1200 500		1			
Min. Stable Cur		( )	20					
CV.2462								
Operating Volta		(V)	1400		1			
Max. Stable Cur.		(μ <b>λ</b> ) (μ <b>λ</b> )	500 20					
wite prepre car.	LAUC	(AR)	20		1			

## TESTS

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°  $\pm$  5°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		Notes
_			Min.	Max.	Tested	
a	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
Ъ	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	CV.2456 = 300μΔ CV.2457 = 300μΔ CV.2458 = 300μΔ CV.2459 = 400μΔ CV.2460 = 400μΔ CV.2461 = 500μΔ CV.2462 = 500μΔ	Current Stability  Meter Fluctuations (µA)	-	5	100%	4
a	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 (µA)	•	5	100%	4

_	Test Conditions	Test		its	No.	Notes
	1090 0010101010		Min.	Max.	Tested	
	Adjust Ia = 225μA	Regulation (1)  (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)':-				
and and the same of the same o		CV.2456 (V) CV.2457 (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		
		Regulation (2)			100%	2 & 5
	Adjust Ia = 275µA	(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)':-				
		CY.2456 (Y) CY.2457 (Y) CY.2458 (Y) CY.2459 (Y) CY.2460 (Y) CY.2461 (Y) CY.2462 (Y)	-	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 = 250\(\mu\)A	(1) Test as in Test 'b' above but with test conditions modified as in Test Condition column at left.			100%	2 <b>&amp;</b> 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)	-	2.0 2.0 2.0 2.0 2.5 3.0 3.5		
<b></b>			L	L	L	ــــــ

	Test Conditions	Test		Limits		Notes
	Test Conditions			Max.	Tested	noces
	Adjust Ia = 250µA.	Temperature Stability  (1) Test as in Test 'b' but			T.A.	2 & 5
	Ambient Temperature = -20°C.	with Test Conditions modified as in Test Condition column at left.				Ĭ
h	Ambient Temperature = +70°C.	(2) Test as in Test 'b' but with Test Conditions modified as in Test Condition column at left.				
n		(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)	-	17.5 4.0 6.0 8.0 10.0 12.0		
		CV,2462 (V)	-	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.
- 2. 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.
- On completion of Test 'f' the valves shall be run for the seven hour stability test. The conditions of Note 1 shall apply.

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

# AMENDMENT No. 1 DATED 1.3.59.

#### Dimensions Page 1

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

DIM	ENSIONS (mm)	MIN.	$\overline{\text{MAX}}$
	Seated Height	57•2	66.7
	Overall Length	-	73.8

Pebruary, 1959

T.V.C. for R.A.E.

N.54377/D

JUES