

MINISTRY OF SUPPLY - D.L.R.D.(A)/R.A.E.

Specification MOSA/CV371 Issue 4 Dated 22.1.54 To be read in conjunction with K.1001, ignoring clauses 5.2, 5.8	<table border="1"> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification</td><td>Valve</td></tr> <tr> <td>UNCLASSIFIED</td><td>UNCLASSIFIED</td></tr> </table>	SECURITY		Specification	Valve	UNCLASSIFIED	UNCLASSIFIED
SECURITY							
Specification	Valve						
UNCLASSIFIED	UNCLASSIFIED						

→ Indicates a change

TYPE OF VALVE - Miniature Half Wave High Voltage Rectifier				<u>MARKING</u> See K.1001/4.			
CATHODE - Indirectly heated				<u>BASE</u> B7G.			
ENVELOPE - Glass, unmetallised							
PROTOTYPES - VI2016 and VI6036							
<u>RATING</u>				Note	<u>CONNECTIONS</u>		
					Pin	Electrode	
Heater Voltage	(V)	4.0			1	Cathode	
Heater Current	(A)	0.5			2	Cathode	
Max. Operating Anode Voltage	(kV)	2.5	A		3	Heater	
Max. Working P.I.V.	(kV)	6.0	A		4	Heater	
Max. No Load P.I.V.	(kV)	7.0	A		5	Cathode	
Max. D.C. Output Current	(mA)	30.0	A		6	Cathode	
Max. Peak Anode Current	(mA)	180	A		7	Cathode	
Max. Heater to Cathode Voltage	(V)	10.0	A		T.G.	Anode	
Max. Reservoir Condenser	(μF)	1.1	A				
Max. Limiting Impedance	(Ω)	5,400	A	<u>TOP GAP</u> See K.1001/A1/D5.2			
Min. H.T. Switching Delay Period for full rating (seconds)		20.0		<u>DIMENSIONS</u> See K.1001/A1/D4.			
					Dimension	Min.	Max.
					A mm	-	60
					B mm	-	19.05
					L mm	-	53.00
					F mm	34.00	42.16
<u>NOTE</u>							
A. Absolute maximum values.							

CV371

TESTS

To be performed in addition to those applicable in K.1001.

Test Conditions			Test	Limits		No. Tested	Note
				Min.	Max.		
a	Vh	Va	Ih (A)	0.45	0.55	100% or S	
	4	0					
b	4	55 max.	Ia (mA)	50	-	100%	
c	4	2.5 kV R.M.S. at 50 c/s applied through external impedance of 5,400Ω including effective transformer impedance. Load resistance to give 30 mA with an average valve. Reservoir Condenser = 1.0 μF.	Load conditions to be maintained for 10 seconds, then H.T. voltage switched off and on 3 times (5 seconds off 5 seconds on)	There shall be no persistent sparking blue glow or distortion of the electrodes.		100%	

DATA SHEET

Valve Electronic Type CV 371

RATINGS AND OPERATING CONDITIONS

Max. No-load P.I.V.	7.0	kV
" Working P.I.V.	6.0	kV
" Applied anode voltage (R.M.S.)	2.5	kV
" Mean D.C. Anode Current	30.0	mA
" Peak Anode Current	180	mA
" Heater/Cathode Voltage	10.0	Volts
Min. external circuit limiting impedance	5,400	Ohms
Value of reservoir condenser	1.0	μ F
H.T. switching delay time	20.0	secs
(see Note 2)		

Notes

- (1) The above ratings apply for operation at 50 c/s with a condenser input filter.
- (2) The valve heater must be switched on for at least 20 secs before the application of the anode voltage.
- (3) The external circuit impedance is the effective transformer impedance and must be increased, if necessary, to the minimum value by the addition of a resistance in the anode circuit.

Mounting Position - Vertical, base downwards.

CV371/d/2-4-54/1.

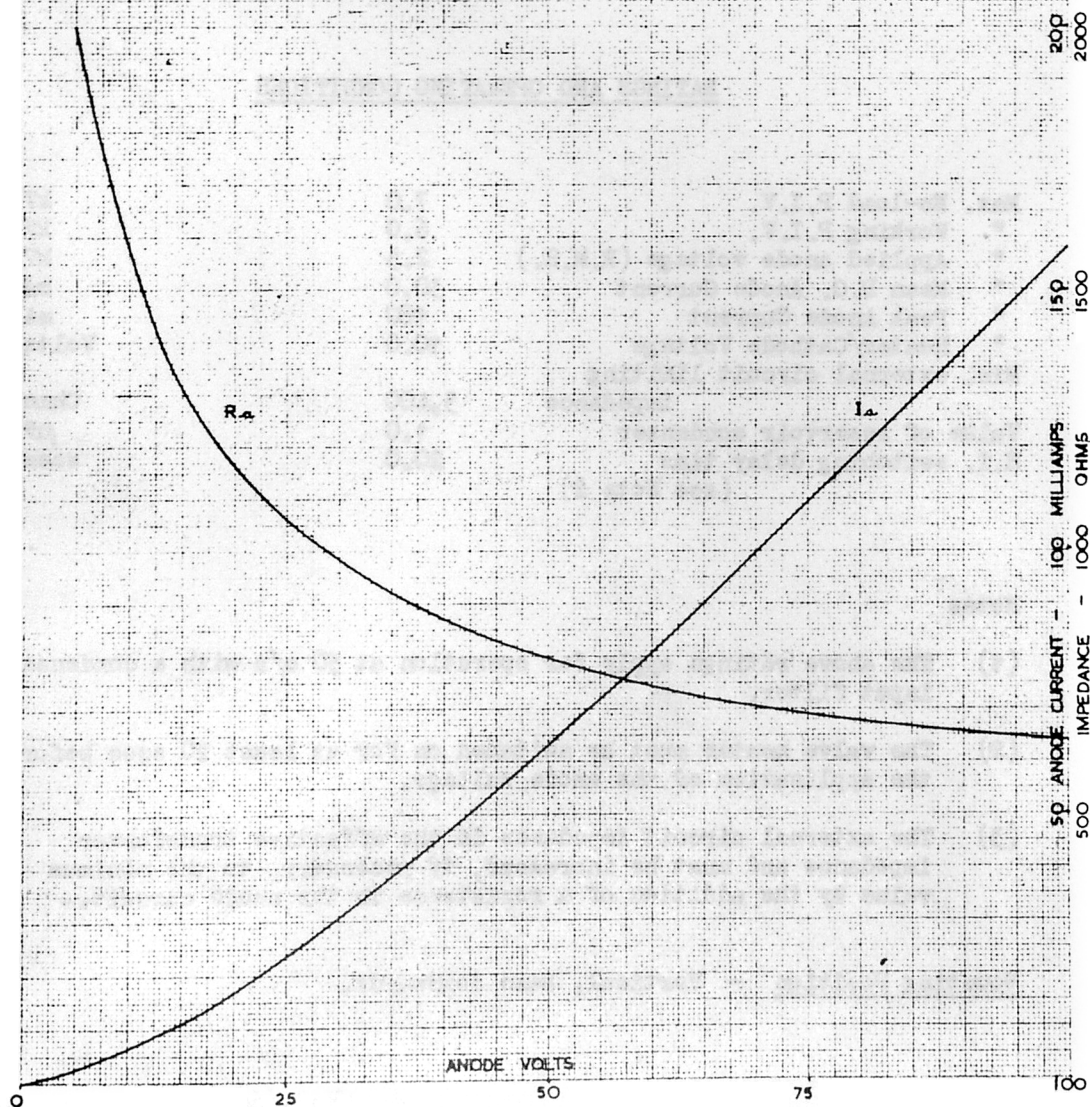
DATA SHEET

Page 2.

CHARACTERISTIC CURVES OF AVERAGE

VALVE TYPE CV 371

(MEAN OF VALVES PRODUCED BY EDISMAN AND ELECTRONIC TUBES.)



CV371/d/2-4-54/2.