

Specification MOSA/CV371 Issue 4 Dated 22.1.54 To be read in conjunction with K.1001, ignoring clauses 5.2, 5.8	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> 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		<u>CONNECTIONS</u>	
PROTOTYPES - VX2016 and VX6036		<u>RATING</u>	<u>Pin</u>
		Note	<u>Electrode</u>
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.C. Anode
Max. Reservoir Condenser (µF)	1.1	A	
Max. Limiting Impedance (Ω)	5,400	A	
Min. H.T. Switching Delay Period for full rating (seconds)	20.0		<u>TOP CAP</u> See K.1001/A1/D5.2
			<u>DIMENSIONS</u> See K.1001/A1/D4.
			Dimension      Min.      Max.
			A mm            -            60
			B mm            -            19.05
			L mm            -            53.00
			F mm            34.04    42.16

NOTE

A. Absolute maximum values.

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TESTS

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

Test Conditions		Test	Limits		No. Tested	Note	
			Min.	Max.			
a	Vh	Va	0.45	0.55	100% or S		
	4	0					Ih (A)
b	4	55 max.	Ia (mA)	50	-	100%	
c	4	2.5 kV R.M.S. at 50 o/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	$\mu$ 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.

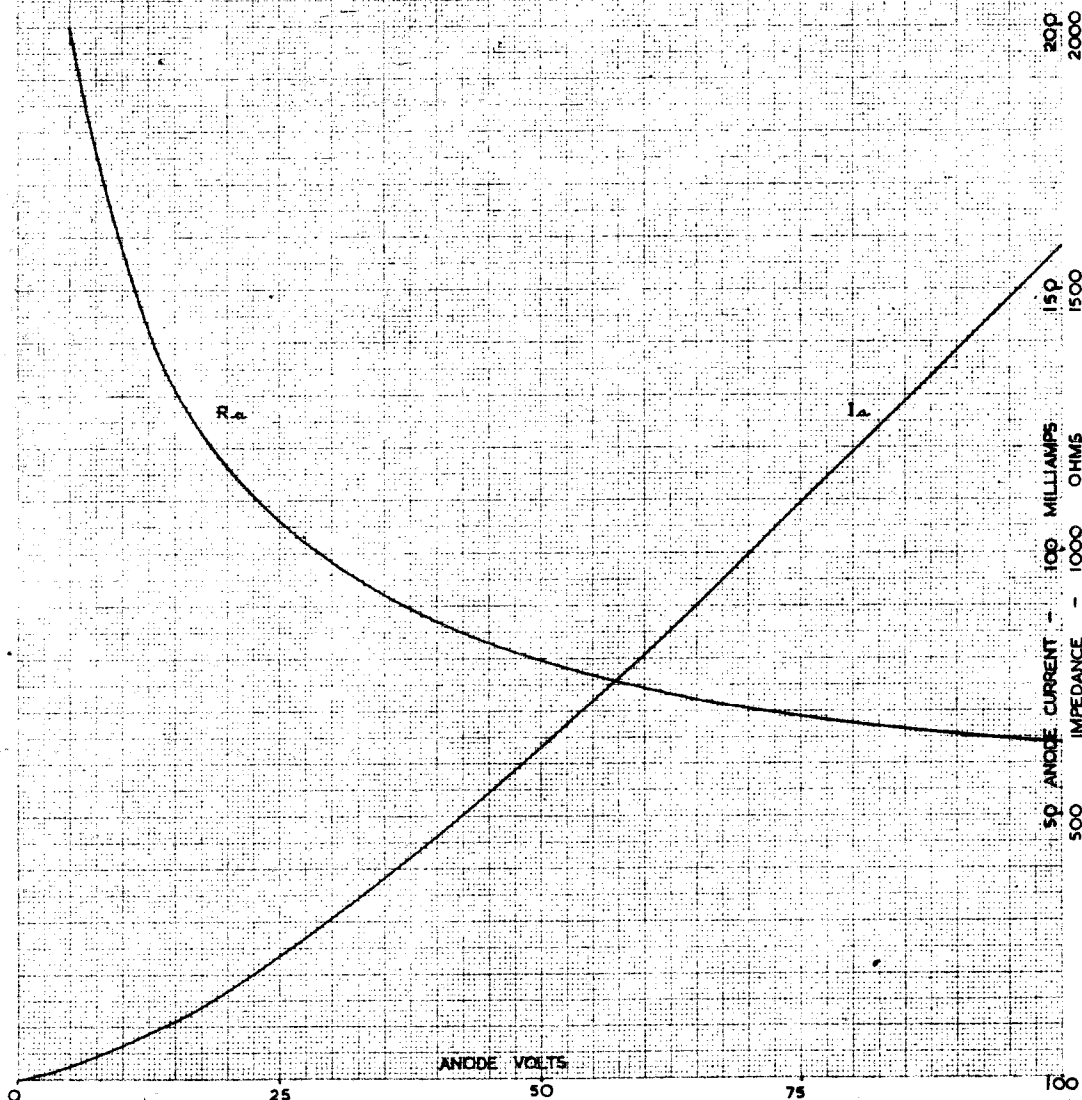
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CHARACTERISTIC CURVES OF AVERAGE

VALVE TYPE CV 371

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



CV371/a/2-4-54/2.