

Specification MOSA/CV.426 Issue 3 Dated 26/4/55 To be read in conjunction with K.1001, ignoring clauses 5.2 and 5.8	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

→ Indicates a change

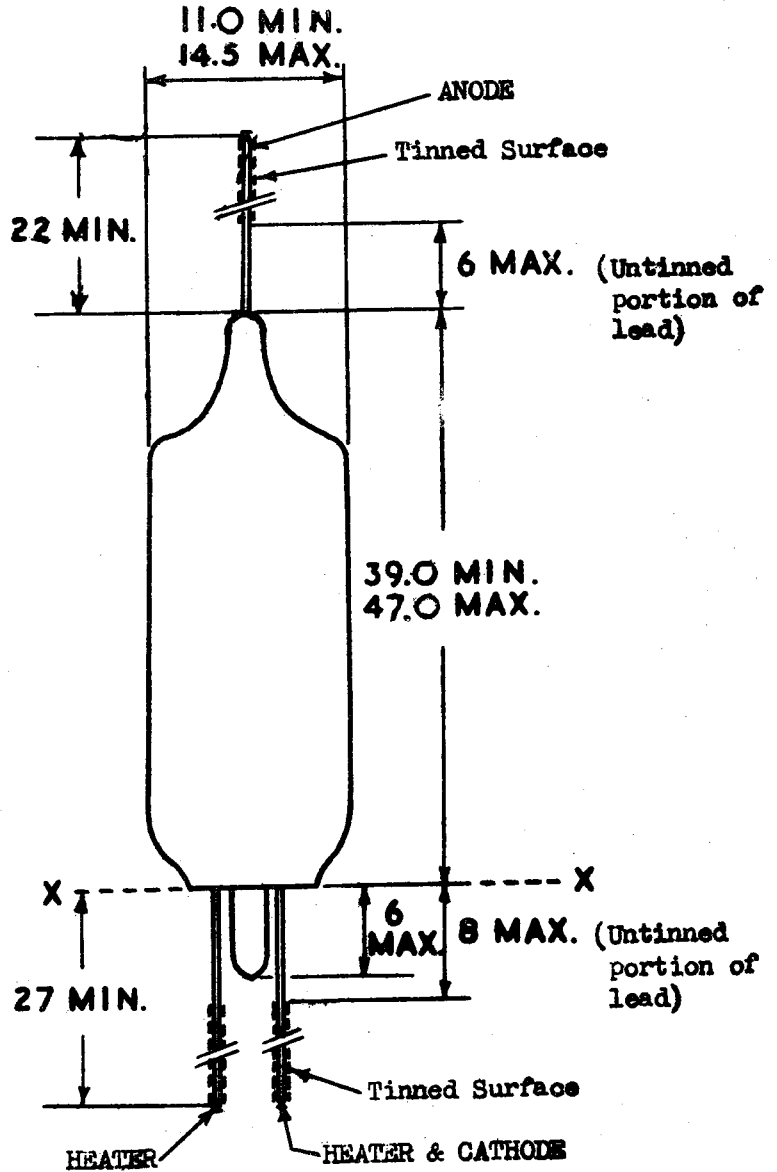
TYPE OF VALVE - High Vacuum, Half Wave, Rectifier CATHODE - Indirectly Heated ENVELOPE - Glass, unmetallised PROTOTYPE - EY 51		<u>MARKING</u> See K.1001/4	
		<u>BASE</u> None	
<u>RATING</u>		Note	<u>DIMENSIONS AND CONNECTIONS</u>
Heater Voltage	(V)	6.3	See page 3 ←
Heater Current	(A)	0.089	
<u>SINUSOIDAL INPUT</u> (up to 500 c/s)			
Max. No Load P.I.V.	(kV)	15	
Max. Mean Rectified Current	(mA)	0.5	
Max. Reservoir Capacity	(μF)	0.1	
Min. Limiting Resistance	(MΩ)	0.1	
<u>PULSE INPUT</u> (See Note B)			
Max. Peak Input Voltage	(kV)	10	
Max. No Load P.I.V.	(kV)	17	
Max. Peak Rectified Current	(mA)	80	
Max. Mean Rectified Current	(μA)	200	
Max. Reservoir Capacity	(pF)	5000	
<u>CAPACITANCE</u> (pF)			
Ca, kh		0.8	
<u>NOTES</u>			
A. For 50 c/s operation. At other frequencies capacitance to be inversely proportional to frequency.			
B. PRF = 10 kc/s, Tp = 5 μseconds.			
C. The anode lead should not be soldered closer than 10 mm from the glass, and the filament leads not closer than 5 mm from the glass.			

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)	.084	.094	100% or S	
	6.3	0					
b	6.3	100 D.C. max.	Ia (mA)	9.8	-	100%	
c	5.7	100 D.C. max.	Ia change in value from test (b)	-	10%	100%	
d	5.3	See K.1001/A V, Method I C charged to 750 volts	Emission (mA)	90	-	100%	
→ e	5.7	Frequency = 100 kc/s Load = 80 MΩ (max) Source Resistance = 100 kΩ Condenser = 0.001 μF P.I.V. = 17.5 kV (min.)	<u>VOLTAGE TEST</u> Run for one minute reject for softness or persistent flashover Load current (μA)	100		100%	

NOTES

Nominal Diameter
of Anode Lead
= 0.35 or 0.6



ALL DIMENSIONS ARE IN MILLIMETRES