

Specification MAP/CV1120/Issue 7 Dated 8.1.46. To be read in conjunction with K1001 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>RESTRICTED</td><td>RESTRICTED</td></tr> </table>	SECURITY		Specification	Valve	RESTRICTED	RESTRICTED
SECURITY							
Specification	Valve						
RESTRICTED	RESTRICTED						

→ Indicates a change

<u>TYPE OF VALVE</u> - High Vacuum Half-Wave Rectifier			<u>MARKING</u> See K1001/4														
<u>CATHODE</u> - Indirectly Heated																	
<u>ENVELOPE</u> - Glass-unmetallised																	
<u>RATING</u>			<u>BASE</u> B.4.														
			<u>Note</u>														
Heater Voltage (V)	2.0		Pin	Electrode													
Heater Current (A)	1.5		1	No connection													
Max. Applied R.M.S. Voltage (V)	5000		2	No connection													
Max. Working Peak Inverse Voltage (V)	14000		3	Heater and Cathode													
Max. No Load Peak Inverse Voltage (V)	15000		4	Heater													
Max. Mean D.C. Rectified Current (mA)	5.0		T.C.	Anode													
Max. Peak Anode Current (mA)	100		<u>PLUG TOP CAP</u> See K1001/AI/D5.1														
Max. Reservoir Con- denser (μ F)	0.25		<u>DIMENSIONS</u> See K1001/AI/D1														
Min. Limiting Resistance Introduced Externally(Ω)	10000																
<u>NOTE</u> A:- Ratings apply to condenser filter and 50 c.p.s. supply.			<table><tr><td colspan="2">Dimensions</td><td>Min.</td><td>Max.</td></tr><tr><td>A</td><td>(mm)</td><td>120</td><td>134</td></tr><tr><td>B</td><td>(mm)</td><td>-</td><td>51</td></tr></table> Base shell diameter not to exceed 33mm. for a height of 6.5mm. from the bottom of the base moulding.			Dimensions		Min.	Max.	A	(mm)	120	134	B	(mm)	-	51
Dimensions		Min.	Max.														
A	(mm)	120	134														
B	(mm)	-	51														

To be performed in addition to those applicable in K1001

	Test Conditions		Test	Limits		No. Tested	Note
	Vh	Va		Min.	Max.		
a	2.OV. AC.or DC.	-	Ih (A)	-	2.2	100% or S	
b	2.OV. AC.or DC.	200V.D.C.Max.	Ia (mA)	50	-	100%	1
c	2.OV. A.C.	Input Voltage 5000V. R.M.S. Frequency 50cps. D.C.Load 5mA. (nom.) Reservoir Condenser 0.25 μ F Effective Resistance per anode introduced externally 10,000 Ω	<u>Load Test</u> Run 1 minute - Reject for softness or persistent flashover.			100%	

NOTE

1:- Applied only for sufficient time to obtain steady reading
(approx. 2 secs.)

DATA SHEET

CV1120
VALVE VU120.
 RAF Ref. No. 10E/121.

Issue	Date
a	18th Feb.43.

TYPE OF VALVE : High vacuum, half-wave rectifier.
CATHODE : Indirectly heated.
BULB : Clear.
COMMERCIAL PROTOTYPE : SU2150A

RATING

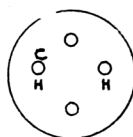
Filament volts	2.0 V.
Filament current	1.5 A approx.
Filament heating time	18 secs.
Max. peak inverse voltage	15,000 V.
Max. peak anode current	100 mA.
Max. RMS applied anode volts	5000 V.
Max. DC output anode current	5 mA.
Suggested smoothing capacitance	0.25 μ F.

DIMENSIONS

Max. overall length	134 mm.
Min. " "	120 mm.
Max. " diameter	51 mm.

BASE AND CONNECTIONS ETC.

Type of Base : British 4-pin.
 Type of top cap : Thimble type.



Bottom View



VU120/a/i.

VU120.

ANODE CURRENT AND ANODE VOLTAGE CURVES.

(Source : Cossor Catalogue sheet for SU2150A)

