

Specification MAP/CV. 2180 Issue 2 Dated 8.10.1951 To be read in conjunction with K1001 excluding clauses 5.2, 5.3, 5.8	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Half Wave Rectifier CATHODE - Indirectly Heated ENVELOPE - Glass unmetallised PROTOTYPE - VX.6095				<u>MARKING</u> See K1001/4	
				<u>BASE</u> I.O.	
<u>RATING</u>			Note	<u>CONNECTIONS</u>	
				Pin	Electrode
Heater Voltage	(V)	2.5		1	No connection
Heater Current	(A)	1.7		2	H
Max. Applied R.M.S. Voltage	(KV)	8.3		3	No connection
Max. Working P.I.V.	(KV)	20		4	No connection
Max. No Load P.I.V.	(KV)	23		5	No connection
Max. Mean D.C. Rectified Current	(mA)	30		6	No connection
Max. Peak Anode Current	(mA)	180		7	H + K
Max. Reservoir Condenser	( $\mu$ F)	0.5	C	8	No connection
Min. Limiting Resistance introduced externally	(ohms)	18,000		Top Cap	Anode
H.T. switching delay period for full ratings	(secs)	10	B	<u>TOP CAP</u> See K1001/A1/D5.2	
<u>DIMENSIONS</u>					
				Dimensions	Min.    Max.
				Length(mm)	115    129
				Diameter(mm)	40

NOTES

- A. Ratings apply to operation with condenser input filter and a supply frequency of 50 c.p.s.
- B. The valve shall withstand direct switching for reduced ratings i.e. 5kV applied voltage at 5mA.
- C. For a supply frequency of 1600 c.p.s. the Reservoir condenser shall be 0.01 $\mu$ F
- D. Valve holder contacts 1,3,4,5,6 & 8, should be connected to contact 7. The Reservoir condenser shall also be connected to contact 7.

# CV2180

## TESTS

To be carried out in addition to those applicable in K1001

Test Conditions			Test	Limits		No Tested	Note
	Vh	Va		Min.	Max.		
a	2.5	-	Ih (A)	1.53	1.87	100% or 3	
b	2.5	115V D.C. Max.	Ia (mA)	52	-	100%	1
c	2.5	Input Voltage 8.5kV R.M.S. Frequency 50 c.p.s. D.C. Load current 30mA (nominal) Reservoir condenser 0.5μF Effective resistance introduced externally 18,000 ohms	Load Test Run for 1 minute Reject for soft- ness and persistent flash- over.			100%	

### NOTES

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