

MINISTRY OF SUPPLY (S.R.D.E.)

Specification: MOS/CV20/Issue 3

Dated: 30/11/46

To be read in conjunction with K1001,  
ignoring clauses: 5.2 and 5.8SECURITYSpecification  
RestrictedValve  
Unclassified ←

→ indicates a change

TYPE OF VALVE: High vacuum half wave  
RectifierCATHODE: Directly heatedENVELOPE: Glass unmetallisedPROTOTYPE: V1906MARKING

See K1001/4 ←

RATING

Filament voltage	4.0	
Nominal filament current (A)	2.5	
Max. applied R.M.S. volts	1550	A
Max. working Peak inverse volts	4000	
Max. no load peak inverse volts	4400	
Max. mean D.C. rectified current (mA)	75	
Max. peak anode current (mA)	600	
Max. reservoir condenser (μF)	2	
Min. limiting resistance introduced externally (ohms)	500	

(Ratings apply to condenser input filter and 50 c.p.s. supply)

Note

BASE  
B 4

Pin	Electrode
1	No connection
2	No connection
3	Filament
4	Filament
T.C.	Anode

TOP CAP

See K1001/AI/D5.1

DIMENSIONS

See K1001/AI/D1

Dimensions	Min.	Max.
A mm	159	168
B mm	-	68
L mm	143	152

NOTES.

- A. Filament voltage to be applied for at least 10 seconds before anode supply.

This valve type is obsolete and this specification is for record purposes only.

TESTS

To be performed in addition to those applicable in K1001

	Test conditions		Test	Limits		No: tested
	Vf	Va		Min.	Max.	
a	4.0 A.C. or D.C.		If (A)	-	2.75	100% or 3
b	4.0 A.C. or D.C.	65 D.C. max	Ia (mA)	150	-	100%
e	4.0 A.C.	Input voltage 1550V. R.M.S. Frequency 50 c.p.s. D.C. Load 75 mA (Nominal) Reservoir conden- ser 2 $\mu$ F Effective resist- ance per anode introduced exter- nally 500 ohms	<u>Load Test</u> Run 3 minutes - after the 1st minute switch anode supply off and on - repeat this switching every succeeding $\frac{1}{2}$ minute until the end of a total 3 minutes - reject for softness or persistent flash- over			100%