VALVE ELECTRONIC **CV32**

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV32/Issue 5. Dated 8.10.46. To be read in conjunction with K1001, ignoring clauses:- 5.2, 5.8 and 7.2.	SECURITY Specification: ~~Restricted~~ Unclass Valve: Unclassified

→ indicates a change

TYPE OF VALVE:- Half-wave Mercury Vapour Rectifier.
CATHODE:- Directly heated.
ENVELOPE:- Glass-unmetallised.
PROTOTYPE:- 866A, 2V/400A.

MARKING

See K1001/4

RATING			Note
Filament Voltage	(V)	2.5	
Filament Current, Nominal	(A)	5.0	
Max. Working Peak Inverse Voltage	(kV)	10.0	A
Max. D.C. Output Current	(A)	0.25	
Max. Temperature of Condensed Mercury	(°C)	60	
Min. Temperature of Condensed Mercury	(°C)	25	
Max. Frequency of Supply c.p.s.		150	
Max. Peak Anode Current	(A)	1.0	
Min. Choke Inductance at max. D.C. Output Current	(H)	5.0	

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

BASE

USM4B
See K1001/AIV/D4.6

Pin	Electrode
1	Filament
2	No connection
3	No connection
4	Filament
TC	Anode

TOP CAP

See K1001/AI/D5.5

DIMENSIONS

See K1001/AI/D1

Dimension	Min.	Max.
A mm	-	170
B mm	-	66

PACKING

See K1001/7

NOTE

A. Filament voltage must be applied at least 5 minutes before anode voltage.

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions		Test	Limits		No. Tested
	Vf	Ia		Min.	Max.	
a	2.5 A.C.		If (A)	-	5.5	100% or S
b	2.5 A.C.	1.0 A	Va	-	16	100%
c	2.5 A.C.	At rated maximum working peak inverse voltage and rated maximum D.C. output current.	Load Test. Run 5 mins. Reject for persistent flashover.			100%