

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.	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Unclassified

→ indicates a change

<u>TYPE OF VALVE:-</u> Half-wave Mercury Vapour Rectifier.		<u>MARKING</u>			
<u>CATHODE:-</u>	Directly heated.	See K1001/4			
<u>ENVELOPE:-</u>	Glass-unmetallised.				
<u>PROTOTYPE:-</u>	866A, 2V/400A.				
<u>RATING</u>		<u>BASE</u>			
Filament Voltage (V)	2.5	USM4B See K1001/AIV/D4.6			
Filament Current, Nominal (A)	5.0				
Max. Working Peak Inverse Voltage (kV)	10.0	A	Pin	Electrode	
Max. D.C. Output Current (A)	0.25		1	Filament	
Max. Temperature of Condensed Mercury (°C)	60		2	No connection	
Min. Temperature of Condensed Mercury (°C)	25		3	No connection	
Max. Frequency of Supply c.p.s.	150		4	Filament	
Max. Peak Anode Current (A)	1.0		TC	Anode	
Min. Choke Inductance at max. D.C. Output Current (H)	5.0		<u>TOP CAP</u>		
(Ratings apply to choke input filter and 50 c.p.s. supply)			See K1001/AI/D5.5		
			<u>DIMENSIONS</u>		
			See K1001/AI/D1		
			Dimension	Min.	Max.
			A mm	-	170
			B mm	-	66
			<u>PACKING</u>		
			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.	<u>Load Test.</u> Run 5 mins. Reject for persistent flashover.			100%