

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

Specification MOS/CV1355/Issue 4 Dated:- 19.6.46 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> Restricted

→ 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>	ESU.300			
<u>RATING</u>		Note	<u>BASE</u>	
Filament voltage	(V) 4.0	A	Goliath Edison Screw	
Nominal filament current	(A) 11.5		Pin	Electrode
Max. Peak inverse voltage	(kV) 10.0		1	Filament
Max. D.C. Output Current	(A) 0.75		2	Filament
Max. temp. of condensed mercury	(°C) 60		T.C.	Anode
Min. temp. of condensed mercury	(°C) 25		<u>DIMENSIONS</u>	
Max. frequency of supply	(c/s) 150		See K1001/AI/D1	
Max. Peak anode current	(A) 3		Dimension	Min. Max
Min. choke inductance at max. D.C. output current	(H) 2.5		A mm	- 250
(Ratings apply to choke input filter and 50 c.p.s. supply).			B mm	- 60
<u>NOTES</u>				
A. Filament voltage must be applied at least 5 mins. before anode voltage.				
This valve type is obsolete and this specification is for record purposes only.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	Notes
					Min.	Max.		
a	Vf 4.0AC	Va -	Ia -	If (A)	-	15	100% or S	
b	4.0AC	-	0.75 (A)	Ia (volt drop) (V)	-	15	100%	1
c	4.0AC	-	-	<u>Load Test</u> Conditions shall be:- Rated working peak inverse voltage and rated max. D.C. output current. Run 10 mins - reject for persistent flashover.			100%	

NOTES

1. Voltage to be applied only for sufficient time to obtain a true reading.