MINISTRY OF SUPPLY D.L.R.D.(A)/RAE

VALVE ELECTRONIC

CV422

Specification M.O.S.A./CV.422 Issue 4 Dated 2.10.1952 To be read in conjunction with K.1001 excluding clauses 5.2, 5.8.	SECURITY Specification: UNCLASSIFIED Valve: UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Voltage Stabiliser
CATHODE - Cold
ENVELOPE - Glass, unmetallised
PROTOTYPE - VX. 371

MARKING
See K.1001/4

BASE
B8G
See K.1001/AIV/D.12

RATINGS

			Note
Max. Anode take-over voltage	(V)	120	A
Max. Anode current	(mA)	45	
Min. Anode current	(mA)	5	
Mean Voltage drop across valve operating at 25mA.	(V)	108	A
Max. Priming anode current	(mA)	1.0	B

CONNECTIONS

Pin	Electrode
1) 2)	Anode
3	Priming anode ←
4) 5) 6) 7) 8)	Cathode

DIMENSIONS
See K1001/A1/D7

Dimension	Min.	Max.
B (mm)	-	29
A (mm)	70	80

NOTES

A. These conditions apply with the priming electrode connected to 150V. + ve thro' 0.1MΩ

B. If not required for use, the priming electrode shall be joined to the main anode through a resistance of 80,000 Ω

TESTS

To be performed in addition to those applicable in K.1001

	Test Conditions			Test	Limits		No. Tested
					Min.	Max.	
a	Priming Anode Voltage	Main Anode Voltage	Main Anode Current (mA)				
	150V through 0.1 MΩ	0	-	The valve must conduct			100%
b	150V through 0.1 MΩ	Increased until current flows	-	Anode take-over voltage (V)	-	120	100%
→ c	150V through 0.1 MΩ	Adjust	25	Voltage drop between main Anode and Cathode (V)	103	113	100%
d	150V through 0.1 MΩ	Adjust	Changed from 5 to 45	Regulation (V)	-	5	100%
e	150V through 0.1 MΩ	Adjust	Changed from 5 to 25	Regulation (V)	-	2	100%
f	The valve is to be tested for freedom from noise during operation. For this purpose, a calibrated amplifier detector having a response within ± 2db. of its response at 400 c.p.s. over the range of 50-5000 c.p.s. is to be connected between the Anode and Cathode. The Cathode current is to be varied slowly from 45 mA. to 5 mA. and at no point in this range must the R.M.S. noise input voltage to the amplifier exceed 10 mV.						100%