MINISTRY OF SUPPLY - D. L.R.D. (A)/R.A.E.

VALVE RIECTRONIC

CV413

Specification MOSA/CV.413
Issue 3 Dated 29.5.1953
To be read in conjunction with K.1001
excluding clauses: 5.2; 5.8

SECURITY
Specification
UNCLASSIFIED

<u>Valve</u> UNCLASSIFIED

Indicates a change

TIPE OF VALVE - Gas-filled Relay CATHODS - Cold ENVELOPS - Glass wastellised PROTOTIPS - G150/20					MARKING See K.1001/4 RASE I.0.				
Control Gap Breakdown Voltage Control Gap Maintaining Voltage Main Gap Breakdown Voltage Main Gap Maintaining Voltage Transfer Current Max.' Peak Control Electrode Current Max. Average Control Electrode Gurrent over period of 1 second	(V) (V) (V) (A4) (mA)	70 60 150 75 5 50	В	Dime	Metal No con Anode No con Contro Connec Connec Cathoo	mection of Elect oted to p ted to p	ell rode pin 7 pin 6		

RETON

- A. Valve to be suitable for operation at 50 μ A.
- B. Gap current = 20 mA.

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

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Test Conditions		Test	Limits Min. Max.		No. Tested	Note
8.	A D.C. voltage not exceeding 55 volts shall be applied between trigger electrode and cathode, positive to trigger with anode floating and increased steadily at a rate not exceeding 25 V. per sec. until the valve strikes.	Control Gap Striking Voltage D.G. (V)	60	80	100%	
Ъ	With conditions as in Test clause 'a', control gap current shall be adjusted to 20 mA.	Control Gap Maintaining Voltage D.C. (V)	_	70	100%	
o	A D.C. voltage not exceeding 100 volts shall be applied between anode and cathode, positive to anode with trigger floating, and increased steadily at a rate not exceeding 25 volts per second until the valve strikes.	Hain Gap Breakdown Voltage D.C. (V)	150		100%	
đ	With conditions as in Test clause 'c', main gap current shall be adjusted to 20 mA.	Main Gap Maintaining Voltage (V)	60	77	100%	
0	With Va = 130V, and with a microsumeter in series with R = 2 Megohms connected in series with the trigger electrode, the voltage to this electrode shall be increased steadily until the valve strikes. The current flowing in the trigger/cathode circuit immediately before the valve strikes shall not exceed the value specified.	Transfer Current (μΔ)		10		