

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

—————> Indicates a change

TYPE OF VALVE - Gas-filled Relay CATHODE - Gold ENVELOPE - Glass unmetallised PROTOTYPE - G150/2D				<u>MARKING</u> See K.1001/4		
				<u>BASE</u> I.O.		
<u>RATINGS</u>		Note	<u>CONNECTIONS</u>			
			Pin	Electrode		
Control Gap Breakdown Voltage	(V)	70	B	1	Metal Base Shell	
Control Gap Maintaining Voltage	(V)	60		2	No connection	
Main Gap Breakdown Voltage	(V)	150	B	3	Anode	
Main Gap Maintaining Voltage	(V)	75		4	No connection	
Transfer Current	(μ A)	5	B	5	Control Electrode	
Max. Peak Control Electrode Current	(mA)	50		6	Connected to pin 7	
Max. Average Control Electrode Current over period of 1 second	(mA)	30		7	Connected to pin 6	
				8	Cathode	
			<u>DIMENSIONS</u> See K.1001/A1/D1			
			Dimension	Min.	Max.	
			A m.m.	-	88	
			B m.m.	-	33.3	
<u>NOTES</u>						
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

	Test Conditions	Test	Limits		No. Tested	Note
			Min.	Max.		
a	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.C. (V)	60	80	100%	
b	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%	
c	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.	Main Gap Breakdown Voltage D.C. (V)	150	—	100%	
d	With conditions as in Test clause 'c', main gap current shall be adjusted to 20 mA.	Main Gap Maintaining Voltage (V)	60	77	100%	
e	With $V_a = 130V$, and with a microammeter 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 (μA)	—	10		