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# VALVE ELECTRONIC CV1070

Specification MAP/CV1070/Issue 9

Dated 20.7.50

To be read in conjunction with K.1001, ignoring clause: - 5.2.

Specification Valve
UNCLASSIFIED

WINCLASSIFIED

### --- Indicates a change

TYPE OF VALVE - Gas filled voltage stabiliser.  CATHODE - Cold ENVELOPE - Glass, unmetallised PROTOTYPE - 7475			MARK See K.		
RATING  Max. Striking Voltage (V) 140 Normal Operating Voltage (V) 100 Quiescent Current (mA) 4 Max. Cathode Current (mA) 8 Min. Cathode Current (mA) 1 Max. A.C. Resistance (\Omega) 300	Note	Pin  1 2 3 4  Diameter A B	Anode Cathod No con No con DIMENSI See K.1001/	nection nection	Max. 85 33

#### NOTE

To allow the use of the valve as an indicator, the design shall be such that the glow produced by the gas discharge shall be visible at the end of the valve remote from the base.

### **CV1070**

#### TESTS

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

	Test Conditions	1	Limits		No.
		Test	Min.	Max.	Tested
	Tests shall be carried out in that shown in Fig. 1 below.	a circuit similar to			
a	Increase the voltage applied to the valve until current flows	Striking voltage (V)	_	140	100%
	Before the tests given below a be run with the cathode current a period of 5 minutes.				
ъ	Cathode current adjusted to 4mA.	Output voltage (V)	90	110	100%
С	Cathode current changed from 10 ma. to 1 mA.	Output voltage change (V)	um .	5.0	100% or S
đ	Valve is to be tested for freed. For this purpose a calibrated as substantially linear response of to be connected between the anocurrent is to be varied slowly point in this range must the R. I amplifier exceed 100 mV.	mplifier-detector have ver the range 50-5000 de and cathode. The from 8 mA. to 1 mA. a	ing a c.p.s. cathode nd at n	is o	100% or S
	<u>TE:</u>	FIG. I ST CIRCUIT	· · · · · · · · · · · · · · · · · · ·		
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