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ADMIRALTY SIGNAL ESTABLISHMENT

VALVE ELECTRONIC CV298

Specification AD/CV298/Issue 2	SECURITY	
Dated 8.10.46. To be read in conjunction with K1001	Specn.	<u>Valve</u> Unclassified
	Una class.	

TYPE OF VALVE:- ENVELOPE:- PROTOTYPE:-	Single-pole double throw vacuum switch Kovar/Glass FA15		oh .	MARKING See K1001/4. Additional Marking:- (See Note E)	
RATING Not			Note	BASE See Page 3.	
Max. Voltage between any two Contacts		3000	A	. 100 1 ago ya	
Max.Continuous Current Ambient Temperatu	(A)(RMS)	15	В	<u>DIMENSIONS</u> See Page 3.	
Range	(∞)	-40 to +100		PACKING	
Max. Contact Pressure	(gms)	500		See K1001/7.	
Recommended Conta Pressure	ct (gms)	75	С		

NOTES

- A. At sea level, 50% humidity.
- B. The life of the switch depends upon the interrupting rating, with a resistance load, as follows:-

V (RMS)	Current (A)	Operation (Total Life)		
3000	10	1000		
3000	3	100,000		
3000	1	1,000,000		

Notes continued overleaf ...

NOTES (Contd.)

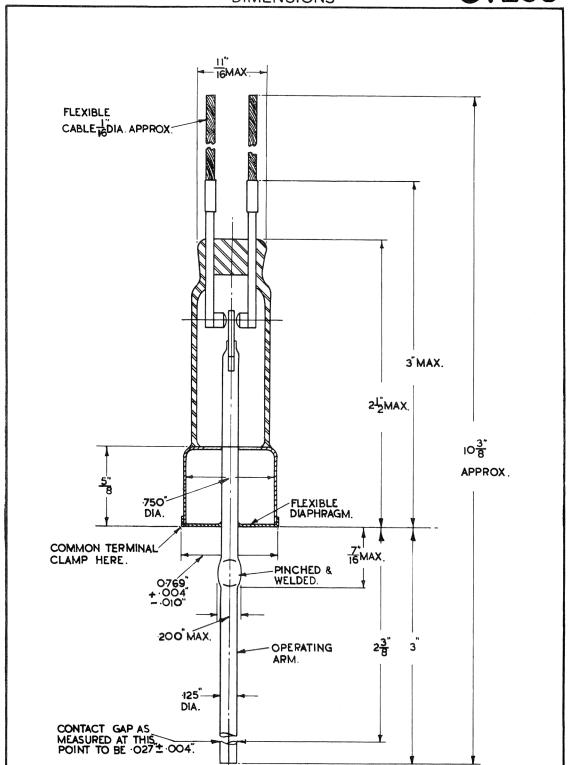
- C. Applied at a distance of $2\frac{3}{8}$ " from the flexible diaphragm; the pressure must be capable of closing the gap in either direction from any position.
- D. All metal parts of the valve must be smeared with vaseline after sand blasting.
- E. All valves shall be graded according to the measurement of contact gap at each 0.001" from 0.023" to 0.031" and the gap indicated by a marking on the switch and on the carton.

The contact gap is to be measured at a point $2\frac{3}{8}$ distant from the flexible diaphragm.

TESTS
To be performed in addition to those applicable in K1001.

	Test Conditions	Test	*******	its Max	No. Test ed
a	Moving contact made alternately to each fixed contact, and a voltage of 6000 V. peak applied between each fixed contact and the moving contact.	There shall be no bre between the contacts appreciable glow dis due to remanent gas.	100%		
ď	Moving contact to be made to each fixed contact alternately with a pressure of 75 grams applied at a point $2\frac{3}{8}$ " from the flexible diaphragm.	Contact resistance measured between the point of applied pressure and the flexible lead not to exceed 100 milliohms with a current of 10 A.		100%	

CV298/2/111



AMENDMENT "A" TO SPECIFICATION

AD/CV298 ISSUE 2, DATED 8.10.46

Test Clause 'b'

Delete Test Clause and insert new Test Clause:

"The resistance measured between common terminal and either flexible lead is not to exceed 25 milliohms with a current of 10 amperes flowing".

N.50340