DIMENSIONS K1001/A1/D11

MOUNTING POSITION Any

Min.

16

38

Max. 47.5

19

Dimension (mm)

A.Seated height B.Diameter

C.Lead length

## ADMIRALTY (A.S.R.E.)

Specification Adm/CV4053	SECURITY								
Issue 1 Dated 24. 10. 55.	Specification	<u>Valve</u>	<u>e</u>						
To be read in conjunction with Kid	Unclassified Unclassifi								
TYPE OF VALVE - Reliable gas-fille	ed voltage				MAR	KING			
stabiliser with flexible leads.				K1001/4					
CATHODE - Cold									
ENVELOPE - Glass				BASE					
PROTOTYPE - VI9133	<u>TYPE</u> - <b>VI</b> 9133				B7G/F				
RATIN									
			Note						
Max. Striking Voltage	s. Striking Voltage (V) 180			CONNECTIONS					
Nominal Stabilised Voltage	(A)	150			COLUMN	2210110			
Max. Anode Current	( MAI )	<b>1</b> 5							
Min. Anode Current	(224)	2							
Voltage Regulation over	,\	1		Lead		Electrode			
Current Range	(∀)	4.5			<u> </u>				
Max. Acceleration	(g)	2,5							
(Continuous Operation)	(8)	ره		1		Anode	a.		
Max. Shock (Short Duration)	(g)	500		2		Cathode	k		
served need factors a new news				3	Int	ernally Connected Cathode	k		
				4 5	1	Anod e	a.		
				6	Int	ernally Connected	a		
	ŀ			7	1	Cathode	k		

NOTES

A. All limiting values are absolute.

To be performed in addition to those applicable in K1001

Tests are to be performed in the specified order unless otherwise agreed with the Inspecting Authority.

Test conditions, unless otherwise specified:-

A D.C. voltage not exceeding 100 volts shall be applied between anode and cathode through a limiting resistance of 5 K ohms, and shall be increased steadily at a rate not exceeding 25V/Sec. until the valve strikes. The ripple content of the supply shall not exceed 0.25%.

After the valve has struck the supply voltage shall be further increased until the anode current is 10mA. It shall be maintained constant for 3 mins. before any characteristic other than striking voltage is measured.

			1	T	Τ	1		T	T
к1001	Test	Test Conditions	AQL	Insp.	Symbol	Limits			1
			%		L	Min.	Max.	Units	Notes
11.1	Vibration	No voltages		100%	1				1
	Lead continuity	No voltages	١.	100%					l
7.1	Class strain	No voltages	<b>6.</b> 5	1					
	GROUP A								
	Leakage.	Va = 50V		100%		-	20	/UA	1
	Striking voltage.			100%	y <sub>s</sub>	-	180	V	1
	Maintaining voltage			100%	A.B.	146	154	٧	
	Regulation.	SVm for change in Ia from 2 to 15 mA		100%	٧r	-	4.5	V	
	Electrical noise.	I <sub>a</sub> varied over the range 2 to 15 mA		100%	Va A.C.	-	50	mV P/P	2
	Voltage jumps.	Ia varied over the range 2 to 15 mA		100%		-	1	٧	2
	GROUP B								
	Lead fragility	No voltages	6.5	IA					
	GROUP C	Combined AQL	6.5						
11.2	Resonance Search(1)	Frequency 25-500 c/s		46					
	Noise output due to resonance.		2,5		Va A.C.		25	mV P/P	
11.3	Fatigue Test,	No voltages Duration 3 x 23 hrs. Acceleration = 5g. Frequency = 170 c/s		IA					
	Post Fatigue Test					1			
	Striking Voltage.		2.5		v <sub>s</sub>	1	180	v	
	Change of		2.5		8Vm		±2.0	v	
	maintaining voltage							1	
11.4	Shock Test	No voltages		IA				1	
		Hammer angle = 300							
	Post Shock Test Striking Voltage.		2,5		v <sub>s</sub>		180	v	
					- 1			v	-
	Change of maintaining voltage		2,5		8 V <sub>m</sub>		± 2.0	<b>'</b>	
			-					DOUD D	

к1001	Test	Test Conditions	AQL %	Insp. Level	Symbol	Limits		Units	Notes
						Min.	Max.		
AVI/5	GROUP D	Combined AQL	6.5						
	Life Test.			IA					
	Intermediate point 200 hrs.								
i i	Maintaining Voltage change		2•5		&v <sub>m</sub>		<b>±2.</b> 0	Λ	
	End point 1000 hrs. Inoperatives. Striking Voltage.		2 <b>.</b> 5		٧s		181	Δ	
	Maintaining Voltage change from 200 hrs. to		2.5		& v <sub>m</sub>		<b>-</b> 1.5	v	
	1000 hrs.								
A1X/2.5	GROUP E	Combined AQL	2•5						
	Electrical re-test after 28 days holding period.	-		100%					
	Inoperatives.		0.5						
	Striking Voltage		0•5		v <sub>s</sub>		181	v	
	Maintaining Voltage		0.5		v <sub>m</sub>	145	155	v	

## NOTES

- This test shall be performed only once and by the valve manufacturing department in order to remove catastrophic failures.
- 2. A calibrated amplifier detector having a substantially linear response over the range from 25 to 5000 c/s is to be connected between anode and cathode. The anode current is to be varied slowly from 2.0 to 15.0 mA at least three times, the rate of sweep being not more than 1 mA per second.

cv4053/1/3