VALVE ELECTRONIC C.V.539.

SECURITY

Valve

Specification

ADMIRALTY SIGNAL AND RADAR ESTABLISHMENT

Specification AD/CV539 incorporating

	be read in conjunction with K1006 Unclassified Unclassified			
TYPE OF VALVE: PROTOTYPE:	T.R. Switch Separate Cavity Type. 1B23	MARKING See K1001/		
	RATINGS ait Ignitor Voltage (V) -10	DIMENSION See Drawing		

NOTE

(AUA)

(Mc/s)

200

945

A. All limiting values are absolute.

Min. Open Circuit Ignitor Voltage (V)

Max. Ignitor Current

Nominal Operating Frequency

CV539

Maximum: 200 -800 10,000 Minimum: -800 -800 10,000 Ref. Test Conditions Min. Max. Ref. Test Qualification Approval: Required for JAN Marking 4.9.18.1.8 Carton Drop: (d) Package Group 1; Carton Size F 4.9.49.18.1.8 Salt Spray: Omit 4.9.6 "Glass Strain: 2-5g 4.18.1 Ignitor Firing Time: Ebb=800Vdc;R=3.25megohms t: -5.0 sec 4.18.2 Ignitor Voltage Drop: Iz=100uAdc Ex: 375 525 Vdc 4.18.3 "Ignitor Cacillation: Note 2 Iz: -70 uAdc 4.18.4 Insertion Loss: Note 3; F=950Mc Li: -1.6 db 4.18.5.1 "Ignitor Interaction: Iz=200uAdc ALI: -0.2 db 4.18.2 Water Vapor Content: Note 4 F: -100% 4.18.2 Water Vapor Content: Note 5 Fo2/Pol: -0.55 4.11.4 Life Test End Point: Ignitor Interaction Mater Vapor Content Po2/Pol: -0.8 Note 2: No tube shall require more than the stated maximum ignitor current to prevent relax ation oscillations when tested in the standard circuit. Note 3: This measurement shall be made with the tube mounted in test cavity per drawing 162-ior approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162-INN or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162-INN or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162-INN or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162-INN or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162-INN or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162-INN or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162-INN or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162-INN or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162-INN or approved equivalent. Note 3: This measurement s	Ratings: Absolute	Iz	Open Circu Ignitor Vol Vdc	tage Alt.
Ref. Test Conditions Min. Max. 3.1 Qualification Approval: Required for JAN Marking 4.9.18.1.8 Carton Drop: (d) Fackage Group 1; Carton Size F 4.9.19.1 *Vibration: C=10; R=50; t=60; Note 1 4.9.19.1 *Vibration: C=10; R=50; t=60; Note 1 4.9.19.6 *Glass Strain: 4.9.6 *Glass Strain: 4.18.1 Ignitor Piring Time: Ebb=800Vdc; R=3.25megohms t: — 5.0 sec 4.18.2 Ignitor Voltage Drop: Iz=100uAdc Ez: 375 525 Vdc 4.18.3 *Ignitor Oscillation: Note 2 Iz: — 70 uAdc 4.18.4.7 Tuning: Note 1 F:936.5 955.5 Mc 4.18.4.3 Insertion Loss: Note 3; F=950Mc Id: — 1.6 db 4.18.5.1 *Ignitor Interaction: Iz=200uAdc Aii: — 0.2 db 4.18.2 High Level Protection: Note 4 P: — 100% 4.18.2 Water Vapor Content: Note 5 Po2/Pol: — 0.55 4.11.4 Idfe Test End Foint: Ignitor Interaction Aii: — 0.2 db Mater Vapor Content: Note 5 Po2/Pol: — 0.55 4.11.4 Idfe Test End Foint: Ignitor Interaction Aii: — 0.2 db Mater Vapor Content: Note 5 Po2/Pol: — 0.8 Note 1: This measurement shall be made with the tube mounted in test cavity per drawing 162—in approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162—IAN or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162—IAN or approved equivalent and the relative transmitted power noted. The db loss in transmit power due to the insertion of the tube shall not be more than the specified amount. SENDANCE. IN STRUCKING TUBS, TR. MIL-E-1/21 In Force SPECIFICATION SHEET MIL-E-1/21 In Force	Maximum Minimum	: 200	-1000	ft. 10,000
Qualification Approval: Required for JAN Marking 4.9.18.1.8 Carton Drop: (d) Package Group 1; Carton Size F 4.9.19.1 *Vibration: G=10; P=50; t=60; Note 1 4.9.8 Salt Spray: P-5h 4.9.6 *Glass Strain: R-5g 4.18.1 Ignitor Firing Time: Ebb=800Vdc; R=3.25megohms t: — 5.0 sec 4.18.2 Ignitor Voltage Drop: Iz=100uAdc Ex: 375 525 Vdc 4.18.3 *Ignitor Cecillation: Note 2 Iz: — 70 uAdc 4.18.7 Tuning: Note 1 F:936.5 955.5 Mc 4.18.4.3 Insertion Loss: Note 3; P=950Mc Li: — 1.6 db 4.18.23 High Level Protection: Note 4 P: — 100% 4.18.22 Water Vapor Content: Note 5 Fo2/Pol: — 0.55 4.11.4 Life Test End Point: Ignitor Interaction Mater Vapor Content Water Vapor Content Po2/Pol: — 0.2 db Water Vapor dequivalent. Note 2: Note 1: This measurement shall be made with the tube mounted in test cavity per drawing 162—10 or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162—10 or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162—10 or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162—10 or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162—10 or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162—10 or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162—10 or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162—10 or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162—10 or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162—10 or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162—10 or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162—10 or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162—10 or approved equivalent. Note	Pack in set type number	aled moisture resistant bag r shall be stamped thereon.	g or approved equivalent. If	opaque bag is used, the tube
4.9.18.1.8 Carton Drop: (d) Package Group 1; Carton Fe-6a(Sh) 4.9.19.1 *Vibration: C=10; F=50; t=60; Note 1 4.9.8 Salt Spray: Chit 4.9.6 *Class Strain: F-5g 4.18.1 Ignitor Firing Time: Ebb=800Vdc; R=3.25megohms t: — 5.0 sec 4.18.2 Ignitor Voltage Drop: Iz*100uAdc Ez: 375 525 Vdc 4.18.3 *Ignitor Oscillation: Note 2 Iz: — 70 uAdc 4.18.7 Tuning: Note 1 F:936.5 955.5 Mc 4.18.4.3 Insertion Loss: Note 3; F=950Mc Li: — 1.6 db 4.18.5.1 *Ignitor Interaction: Iz=200uAdc ALi: — 0.2 db 4.18.2 Water Vapor Content: Note 4 P: — 100% 4.18.2 Water Vapor Content: Note 5 Po2/Fol: — 0.55 4.11 Life Test Group C; Iz=200uAdc; Note 6 t: 500 — hr 4.11.4 Life Test End Point: Ignitor Interaction ALi: — 0.2 db Water Vapor Content Po2/Fol: — 0.8 Note 1: This measurement shall be made with the tube mounted in test cavity per drawing 162—or approved equivalent. Note 2: No tube shall require more than the stated moximum ignitor current to prevent relaxation oscillations when tested in the standard circuit. Note 2: No tube shall require more than the stated moximum ignitor current to prevent relaxation oscillations when tested in the standard circuit. Note 2: No tube shall require more than the stated moximum ignitor current to prevent relaxation oscillations when tested in the standard circuit. Note 3: This measurement shall be made in test cavity per drawing 162—IAN or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162—IAN or approved equivalent. Solution Scillations when tested in the standard circuit. Note 3: This measurement shall be made in test cavity per drawing 162—IAN or approved equivalent. Solution Scillations when tested in the standard circuit. Note 3: This measurement shall be made in test cavity per drawing 162—IAN or approved equivalent. Solution Scillations when tested in the standard circuit. Solution Scillations when tested in the standard circuit. Note 3: This measurement shall be made in test cavity per drawing 162—IAN or approved equivalent. Solution	Ref.	Test	Conditions	Min. Max.
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4.9.8 Salt Spray: Onit 4.9.6 *Class Strain: P-5g 4.18.1 Ignitor Firing fime: Ebb=800Vdc;R=3.25megohms 4.18.2 Ignitor Voltage Drop: Iz=100uAdc 4.18.3 *Ignitor Oscillation: Note 2 4.18.7 Tuning: Note 1 F:936.5 955.5 Mc 4.18.4.3 Insertion Loss: Note 3;F=950Mc 4.18.5.1 *Ignitor Interaction: Iz=200uAdc 4.18.5.1 *Ignitor Interaction: Note 4 4.18.22 High Level Protection: Note 4 4.18.22 Water Vapor Content: Note 5 Fo2/Fol:		Carton Drop:	(d) Package Group 1; Carto Size F	n
### ##################################	4.9.19.1	*Vibration:	G=10; F=50; t=60; Note 1	
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4.18.2 Ignitor Voltage Drop: Iz=100uAdc Ez: 375 525 Vdc 4.18.3 *Ignitor Oscillation: Note 2 Iz: 70 uAdc 4.18.7 Tuning: Note 1 F:936.5 955.5 Mc 4.18.4.3 Insertion Loss: Note 3; F=950Mc Li: 1.6 db 4.18.5.1 *Ignitor Interaction: Iz=200uAdc ALi: 0.2 db 4.18.23 High Level Protection: Note 4 P: 100% 4.18.22 Water Vapor Content: Note 5 Po2/Pol: 0.55 4.11 Life Test Group C; Iz=200uAdc; Note 6 t: 500 hr 4.11.4 Life Test End Point: Ignitor Interaction ALi: 0.2 db Note 1: This measurement shall be made with the tube mounted in test cavity per drawing 162 or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162-JAN or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162-JAN or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162-JAN or approved equivalent. Note 3: This measurement shall be made in test cavity per drawing 162-JAN or approved equivalent. With the cavity calibrator in position the cavity shall be tuned to resonance and the transmitted power noted. The db loss in transmit power due to the insertion of the tube shall not be more than the specified amount.		*Glass Strain:		
*Ignitor Oscillation: Note 2 Iz: 70 uAdc 4.18.7 Tuning: Note 1 F:936.5 955.5 Mc 4.18.4.3 Insertion Loss: Note 3; F=950Mc Li: 1.6 db 4.18.5.1 *Ignitor Interaction: Iz=200uAdc ALI: 0.2 db 4.18.23 High Level Protection: Note 4 P: 100% 4.18.22 Water Vapor Content: Note 5 Po2/Po1: 0.55 4.11 Life Test Croup C; Iz=200uAdc; Note 6 T: 500 hr 4.11.4 Life Test End Point: Ignitor Interaction ALI: 0.2 db **A-11.4 Life Test End Point: Ignitor Interaction Po2/Po1: 0.8 Note 1: This measurement shall be made with the tube mounted in test cavity per drawing 162- Those shall require more than the stated maximum ignitor current to prevent relaxation oscillations when tested in the standard circuit. Note 3: This measurement shall be made in test cavity per drawing 162-JAN or approved equivalent. With the cavity calibrator in position the cavity shall be tuned to resonance and the relative transmitted power noted. With the tube inserted, the cavity then be tuned to resonance and the transmitted power noted. The db loss in transmit power due to the insertion of the tube shall not be more than the specified amount. SPECIFICATION SHEET MIL-E-1/21 MIL-E-1/21	4.18.1	Ignitor Firing Time:	Ebb=800Vdc; R=3.25megohms	t: 5.0 sec
4.18.3 *Ignitor Oscillation: Note 2	4.18.2	Ignitor Voltage Drop:	Iz#100uAdc	Ez: 375 525 Vde
4.18.7 Tuning: Note 1 F:936.5 955.5 Mc 4.18.4.3 Insertion Loss: Note 3;F=950Mc Li: — 1.6 db ALi: — 0.2 db ALi: — 0.2 db ALi: — 0.2 db ALi: — 0.55 High Level Protection: Note 4 P: — 100% ALi: — 0.55 ALi: — 0.55 ALi: — 0.55 ALi: — 0.55 ALi: — 0.2 db ALi: — 0.2	4.18.3	*Ignitor Oscillation:	Note 2	
A.18.4.3 Insertion Loss: Note 3; F=950Mc Li: 1.6 db A.18.5.1 *Ignitor Interaction: Iz=200uAdc ALI: 0.2 db A.18.23 High Level Protection: Note 4 P: 100% A.18.22 Water Vapor Content: Note 5 Po2/Fol: 0.55 A.11 Life Test Group C; Iz=200uAdc; Note 6 t: 500 hr A.11.4 Life Test End Point: Ignitor Interaction ALI: 0.2 db Mater Vapor Content Po2/Pol: 0.8 Note 1: This measurement shall be made with the tube mounted in test cavity per drawing 162-ior approved equivalent. Note 2: No tube shall require more than the standard circuit. Note 3: This measurement shall be made in test cavity per drawing 162-JAN or approved equivalent. With the cavity calibrator in position the cavity shall be tuned to resonance and the relative transmitted power level noted. With the tube inserted, the cavity then be tuned to resonance and the transmitted power noted. The db loss in transmit power due to the insertion of the tube shall not be more than the specified amount.	4.18.7	Tuning:	Note 1	
#.18.5.1 *Ignitor Interaction: Iz=200uAdc #.18.23 High Level Protection: Note 4 P: — 100% #.18.22 Water Vapor Content: Note 5 Po2/Pol: — 0.55 #.11 Life Test Group C; Iz=200uAdc; Note 6 t: 500 — hr #.11.4 Life Test End Point: Ignitor Interaction ALi: — 0.2 db #.11.4 Life Test End Point: Ignitor Interaction Po2/Pol: — 0.8 #.11.5 Note 1: This measurement shall be made with the tube mounted in test cavity per drawing 162—or approved equivalent. #.11.4 Note 2: No tube shall require more than the stated meximum ignitor current to prevent relaxation oscillations when tested in the standard circuit. #.11.4 Note 3: This measurement shall be made in test cavity per drawing 162—JAN or approved equivalent. With the cavity calibrator in position the cavity shall be tuned to resonance and the relative transmitted power level noted. With the tube inserted, the cavity then be tuned to resonance and the transmitted power noted. The db loss in transmit power due to the insertion of the tube shall not be more than the specified amount. #### SPECIFICATION SHEET ##################################	4.18.4.3	Insertion Loss:	Note 3; F=950Mc	_
Water Vapor Content: Note 5 Po2/Pol: 0.55 A-11 A-11	4.18.5.1	*Ignitor Interaction:	Iz=200uAde	
Group C; Iz=200uAdc; Note 6 t: 500 hr Life Test End Point: Ignitor Interaction Mater Vapor Content Po2/Fol: 0.8 Note 1: This measurement shall be made with the tube mounted in test cavity per drawing 162-or approved equivalent. Note 2: No tube shall require more than the stated maximum ignitor current to prevent relexation oscillations when tested in the standard circuit. Note 3: This measurement shall be made in test cavity per drawing 162-JAN or approved equivalent. With the cavity calibrator in position the cavity shall be tuned to resonance and the relative transmitted power level noted. With the tube inserted, the cavity then be tuned to resonance and the transmitted power noted. The db loss in transmit power due to the insertion of the tube shall not be more than the specified amount. SPECIFICATION SHEET GAS SMITCHING TUBE, TR. MIL-E-1/21	.18.23	High Level Protection:	Note 4	P: — 100%
Group C;Iz=200uAdc;Note 6 t: 500 — hr 1.11.4 Life Test End Point: Ignitor Interaction ALi: — 0.2 db 1.2.4b Water Vapor Content Po2/Pol: — 0.8 1.2.4c Note 1: This measurement shall be made with the tube mounted in test cavity per drawing 162—or approved equivalent. 1.2.4 Note 2: No tube shall require more than the stated meximum ignitor current to prevent relaxation oscillations when tested in the standard circuit. 1.3.5 This measurement shall be made in test cavity per drawing 162—JAN or approved equivalent. With the cavity calibrator in position the cavity shall be tuned to resonance and the relative transmitted power level noted. With the tube inserted, the cavity then be tuned to resonance and the transmitted power noted. The db loss in transmit power due to the insertion of the tube shall not be more than the specified amount. 1.2.5 SPECIFICATION SHEET 1.2.6 MIL-E-1/21 1.3.7 MIL-E-1/21 1.3.8 MIL-E-1/21	.18.22	Water Vapor Content:	Note 5	Po2/Pol : 0.55
Water Vapor Content Po2/Pol: — 0.8 Note 1: This measurement shall be made with the tube mounted in test cavity per drawing 162— or approved equivalent. Note 2: No tube shall require more than the stated maximum ignitor current to prevent relaxation oscillations when tested in the standard circuit. Note 3: This measurement shall be made in test cavity per drawing 162—JAN or approved equivalent. With the cavity calibrator in position the cavity shall be tuned to resonance and the relative transmitted power level noted. With the tube inserted, the cavity then be tuned to resonance and the transmitted power noted. The db loss in transmit power due to the insertion of the tube shall not be more than the specified amount. SPECIFICATION SHEET GAS-SWITCHING TUBE, TR. MIL-E-1/21		infe Test	Group C;Iz=200uAdc;Note 6	
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Note 3: This measurement shall be made in test cavity per drawing 162-JAN or approved equiva lent. With the cavity calibrator in position the cavity shall be tuned to resonance and the relative transmitted power level noted. With the tube inserted, the cavity then be tuned to resonance and the transmitted power noted. The db loss in transmit power due to the insertion of the tube shall not be more than the specified amount. SPECIFICATION SHEET avy-Bureau of Ships ir Force GAS SWITCHING TUBE, TR. MIL-E-1/21	ote 1: Thi	s measurement shall be made approved equivalent.	with the tube mounted in te	st cavity per drawing 162-JA
and the relative transmitted power level noted. With the tube inserted, the cavity then be tuned to resonance and the transmitted power noted. The db loss in transmit power due to the insertion of the tube shall not be more than the specified amount. SPECIFICATION SHEET avy-Bureau of Ships ir Force GAS SWITCHING TUBE, TR. MIL-E-1/21	Note 2: No ati	tube shall require more the	an the stated maximum ignitor d in the standard circuit.	current to prevent relax-
Army-Signal Corps Vary-Bureau of Ships Air Force SPECIFICATION SHEET GAS SWITCHING TUBE, TR. MIL-E-1/21	and the	the relative transmitted on be tuned to resonance a	ator in position the cavity a power level noted. With the nd the transmitted power note	tube inserted, the cavity sh
dir Force GAS SWITCHING TUBE, TR. MIL-E-1/21	rmy-Signal C	orps SPECI	FICATION SHEFT	
PROCLIBEMENT SPECIFICATION SEPARATE CAVITY TYPE 1B23 SHEET 1 OF	ir Force	GAS S	WITCHING TUBE, TR.	

Other interest: Army -CMOT Navy - AMCMd OrS

- When the tube is fired by the application of high power in cavity per drawing 162-JAN Note 4: or approved equivalent which is at resonance, the transmitted power obtained shall be less than that of a standard tube filled with pure hydrogen to a pressure of 25 millimeters of mercury. The power level at the input shall be sufficient to fire the rf gap of the tube and to insure that the measurement is being made on the flat part of the "power in the gap vs. leakage power" characteristic. If the main discharge gap does not fire it is caused to be fired by a short application of ignitor voltage.
- With the tube operating as outlined in Note 4, s small portion of the tube envelope Note 5: shall be cooled by the application of solid CO₂. The ratio of the minimum reading of the output meter (Po2) to that obtained before the application of solid CO₂ (Po1) shall be less than the given value, and the Finel reading shall be less than the initial one.
- Note 6: The specified life is based on ignitor life only. This will be reduced if the tube is operated under full rated rf conditions.
- Note 7: Referenced specification shall be of the issue in effect on the date of invitation for bids.

When Government drawing, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the fulled Gates Government may have formulated, for mined may way another the second of the fact of the data is not to be regarded by implicit or any other data is not to be regarded by implicit or any man processed on the fact of the f custosums. Army-Signal Curps Navy-Bureau of Ships SPECIFICATION SHEET MIL-E-1/21 NOTICE: no respons GAS SUITCRIEG TUBE, TR. Air Force SEPARATE CAVITY TIPE 1B23 PROCUREMENT SPECIFICATION MIL_P_

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Army - CHOT Havy- MONSOr6 Other interest:

