

VALVE ELECTRONIC **CV1141**

(NGT1)

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1141/Issue 4. Dated 11.11.46. To be read in conjunction with K1001.				<u>SECURITY</u> Specification RestrictedValveUnclassified	
<u>TYPE OF VALVE:-</u> Argon filled gas discharge triode. <u>CATHODE:-</u> Indirectly heated. <u>ENVELOPE:-</u> Glass. <u>PROTOTYPE:-</u> GDT4C.				<u>MARKING</u> See K1001/4.	
				<u>BASE</u> B5 See K1001/AIV/D5.2.	
<u>RATING</u>			<u>Note</u>	<u>Pin</u>	<u>Electrode</u>
Heater Voltage (V)	4.0	A		1	No connection
Heater Current (A)	1.75		2	Grid	
Max. Voltage between electrodes (V)	350		3	Heater	
Max. Anode Current (peak) (A)	1.0		4	Heater	
Max. Anode Current (mean) (A)	0.2		5	Cathode	
Grid Control Ratio	40	A	TC	Anode	
				<u>TOP CAP</u> See K1001/AI/D5.1.	
<u>NOTE</u> A. Min. Cathode heating time: 30 secs. Ia should not be allowed to flow before this time.				<u>DIMENSIONS</u> See K1001/AI/D.1.	
				<u>Dimension</u>	<u>Min.</u> <u>Max.</u>
				A mm	- 130
				B mm	- 45
				<u>PACKING</u> See K1001/7.	

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits		No. Tested	Note
	Vh (V)	Va (V)	Vg (V)	Ia (mA)		Min.	Max.		
a	A voltage of 250 V will be applied with the cathode cold.				Cathode-Anode Insulation (Megohms)	20	-	100%	
b	4.0	See Note A			Ih (A)	1.65	1.90	100%	
c	4.0	Raised until Ia flows	0		Va striking (V)	-	25	100%	
d	4.0	100 with 1,000 ohms in series	Reduced until discharge occurs		Vg striking (V)	-2	-4	100%	
e	4.0	300 with 1,000 ohms in series	As test 'd'		Vg striking (V)	-5	-8.5	100%	
f	4.0	As in test 'e', but with 10 megohms, in series with grid.			Change in Vg from value noted in test 'e' (V)	-	2.0	100%	
g	4.0		0	50	Va, voltage drop (V)	-	20	100%	1
				200					
				600					

NOTE

1. 600 mA reading in test 'g' is a spot reading.