

MINISTRY OF SUPPLY (S.R.D.E.)

Specification: MOS/CV175/Issue 4	<u>SECURITY</u>	
Dated:- 17.8.48.	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K1001.	Restricted	Unclassified

Unclass.

→ indicates a change

<u>TYPE OF VALVE:-</u> Screened grid				<u>MARKING</u>															
<u>CATHODE:-</u> Directly heated				See K1001/4															
<u>ENVELOPE:-</u> Glass - unmetallised																			
<u>PROTOTYPE:-</u> XSG 1.5																			
<u>RATING</u>				<u>BASE</u>															
Notes <table><tr><td>Filament voltage (V)</td><td>1.5</td></tr><tr><td>Filament current (mA)</td><td>75</td></tr><tr><td>Max. anode voltage (V)</td><td>100</td></tr><tr><td>Max. screen voltage (V)</td><td>50</td></tr><tr><td>Anode current (mA)</td><td>0.55</td></tr><tr><td>Mutual conductance (mA/V)</td><td>0.45</td></tr></table>				Filament voltage (V)	1.5	Filament current (mA)	75	Max. anode voltage (V)	100	Max. screen voltage (V)	50	Anode current (mA)	0.55	Mutual conductance (mA/V)	0.45	Hivac 4-pin, 6B.			
				Filament voltage (V)	1.5														
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				Pin		Electrode													
1	Filament																		
2	Filament																		
3	Screen grid																		
4	Control grid																		
T.C	Anode																		
<u>NOTES</u>				<u>DIMENSIONS</u>															
A. Measured at $V_a = 50$ $V_{g2} = 30$ $V_{g1} = 0$				See K1001/AI/D1															
				Dimension		Min	Max												
				A	mm	-	75												
				B	mm	-	16												

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions				Test	Limits		No. Tested
						Min.	Max.	
	Vf	Va	Vg2	Vg1				
a	1.5	-	-	-	If (mA)	72	88	100%
b	1.5	50	30	0	Ia (mA)	0.5	1.1	100%
c	1.5	50	30	0	Ig2 (mA)	-	0.25	100%
d	1.5	50	30	0 to -1	gm (mA/V)	0.3	0.6	100%
e	1.5	50	30	0	Rev. Ig1 (μ A)	-	1.0	100%