

# KC 3 Triode

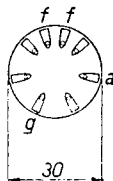
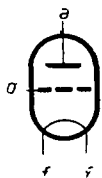


Fig. 2  
Arrangement of  
electrodes and  
base connections.

This triode is a driver valve for Class B output stages in which the grid of the output valve passes a certain amount of current. In view of the high power required for the excitation of a Class B output circuit in which grid current flows, the filament consumption is on the high side. The KC 3 should be employed only in conjunction with the Class B output valve KDD 1, using a driver transformer having a ratio of 2 : (1 + 1). The sensitivity of the combination of KC 3 and KDD 1 valves is so high that the KF 4, connected as A.F. amplifier or detector, may precede it only when operating below its maximum amplification; otherwise the receiver becomes microphonic.



Fig. 1  
Dimensions in mm

## FILAMENT RATINGS

Heating: direct by battery; parallel supply.  
Filament voltage. . . . .  $V_f = 2.0 \text{ V}$   
Filament current . . . . .  $I_f = 0.21 \text{ A}$

## CAPACITANCES

$C_{ag} = \text{max. } 6.3 \mu\mu\text{F}$

## STATIC DATA

|                                |                |             |
|--------------------------------|----------------|-------------|
| Anode voltage . . . . .        | $V_a = 90$     | 135 V       |
| Grid bias. . . . .             | $V_g = -1.6$   | -2.8 V      |
| Anode current . . . . .        | $I_a = 2$      | 3 mA        |
| Mutual conductance. . . . .    | $S = 2.2$      | 2.5 mA/V    |
| Internal resistance . . . . .  | $R_i = 14,000$ | 12,000 ohms |
| Amplification factor . . . . . | $\mu = 25$     | 25          |

## MAXIMUM RATINGS

$V_a = \text{max. } 150 \text{ V}$   
 $W_a = \text{max. } 1 \text{ W}$   
 $I_k = \text{max. } 7 \text{ mA}$   
 $V_g (I_g = \pm 0.3 \mu\text{A}) = \text{max. } -0.4 \text{ V}$   
 $R_{yf} = \text{max. } 3 \text{ M ohms}$

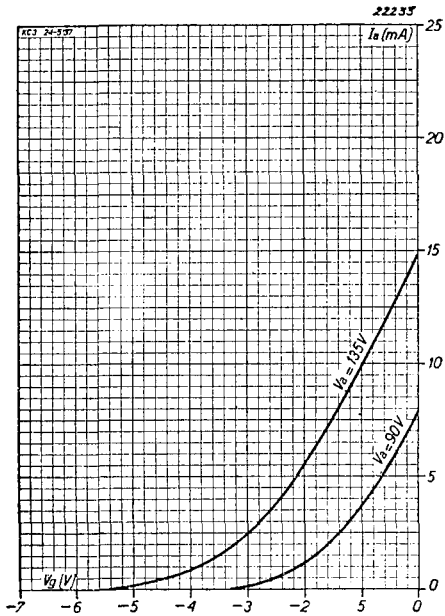


Fig. 3  
Anode current as a function of the grid bias.

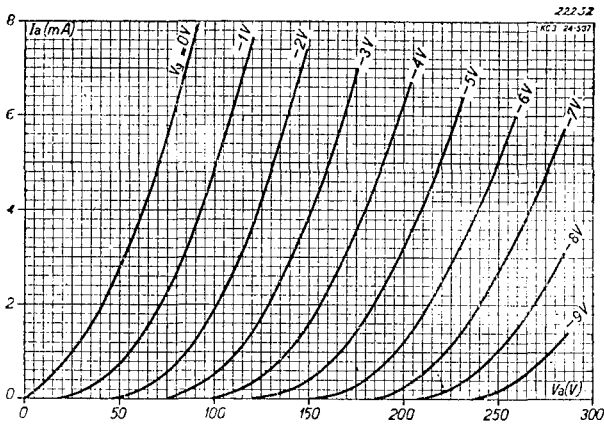


Fig. 4  
Anode current as a function of the anode voltage for different values of grid bias.