

AX 50 Full-wave gas-filled rectifying valve

The AX 50 is a full-wave gas-filled rectifying valve for use in fairly large amplifier equipment.

FILAMENT RATINGS

Heating: direct by A.C.	
Heater voltage	$V_f = 4 \text{ V}$
Heater current	$I_f = 3.75 \text{ A}$

MAXIMUM RATINGS

Secondary (A.C) voltage of the power transformer on no load.	V_{tr}	= max. $2 \times 500 \text{ V}_{eff}$
D.C. output	I_o	= max. 250 mA
Voltage drop in the valve	V_{arc}	= max. 15 V
Permissible capacitance of capacitor across input of the smoothing circuit: C		= max. 64 μF
When a capacitor is connected across the smoothing circuit: The ohmic resistance in the D.C. circuit, with $C = 64 \mu\text{F}$ R_t == min. 200 ohms		
with $C = 32 \mu\text{F}$ R_t		= min. 150 ohms
with $C = 16 \mu\text{F}$ R_t		= min. 100 ohms

For the correct operation of this valve reference should be made to the notes on the AX 1.

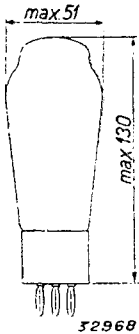


Fig. 1
Dimensions in mm.

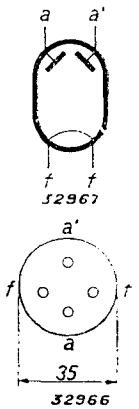


Fig. 2
Arrangement of
base connections
and electrodes.

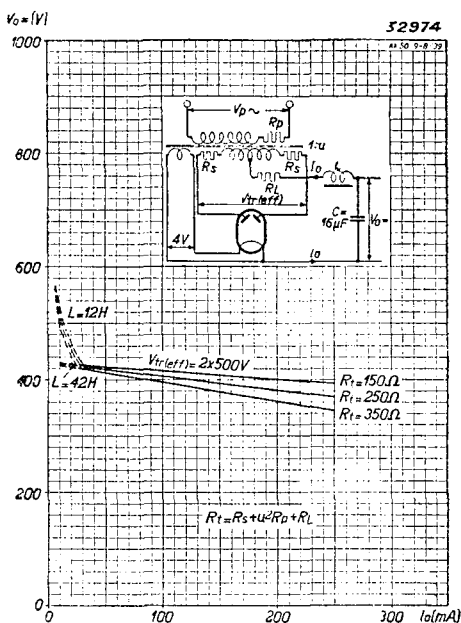


Fig. 3

Loading curves (direct voltage as a function of the output current) with respect to different values of the total resistance $R_t = (R_L + R_s + n^2 R_p)$ in a smoothing circuit in which a choke is the first component. The voltage curves relating to lower values of current for chokes of 12 and 42 H are shown by the broken lines.

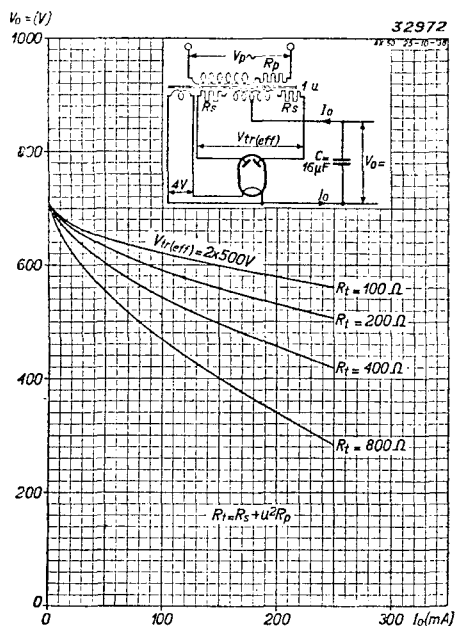


Fig. 4

Loading curves (direct voltage as a function of the output current) for different values of the total resistance $R_t = R_s + n^2 R_p$ in a smoothing circuit in which the first component is a capacitor.