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.

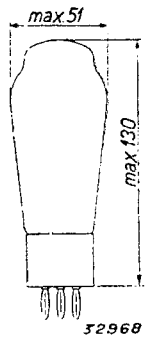

Fig. 1
Dimensions in mm.

FILAMENT RATINGS

Heating: direct by A.C.

Heater voltage	V_f	= 4 V
Heater current	I_f	= 3.75 A

MAXIMUM RATINGS

Secondary (A.C) voltage of the power transformer on no load	V_{tr}	= max. 2×500 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 $C = 64$ μF . . . . . R_l = min. 200 ohms
with $C = 32$ μF . . . . . R_l = min. 150 ohms
with $C = 16$ μF . . . . . R_l = min. 100 ohms

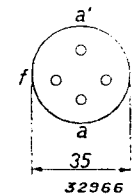

Fig. 2
Arrangement of base connections and electrodes.

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

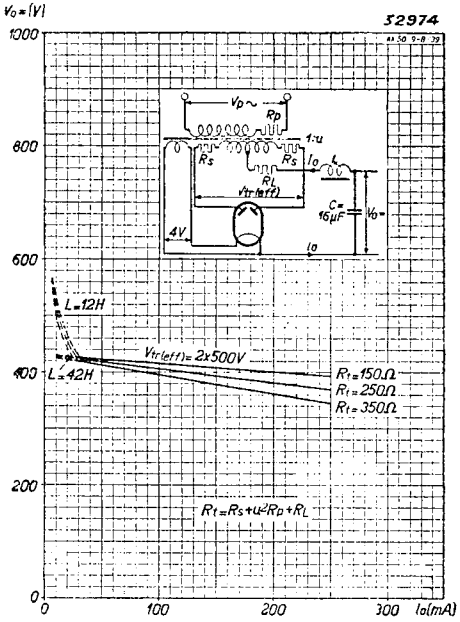

Fig. 3

Loading curves (direct voltage as a function of the output current) with respect to different values of the total resistance $Rt = (R_L + Rs + n^2\ Rp)$ 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.

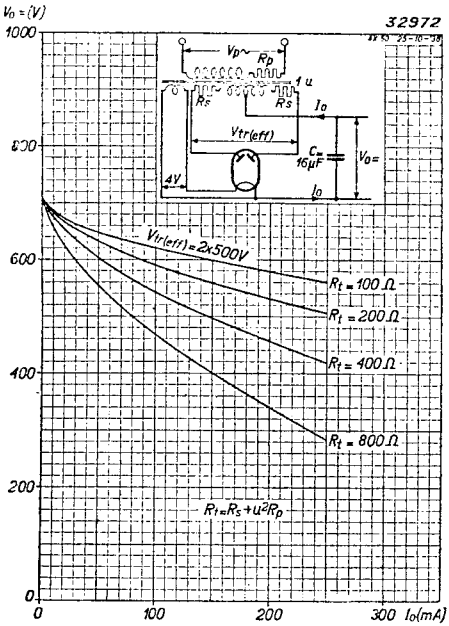

Fig. 4

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