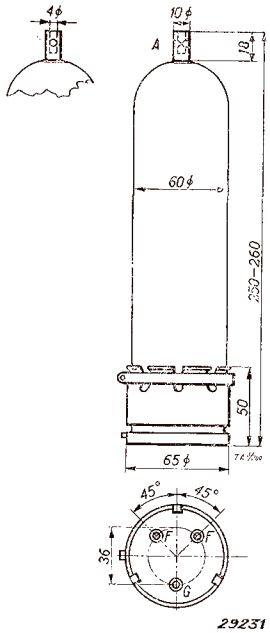


PHILIPS-EMISSION

R.E. 520 E 11-38

PHILIPS

TRANSMITTING VALVE

TA 5/200

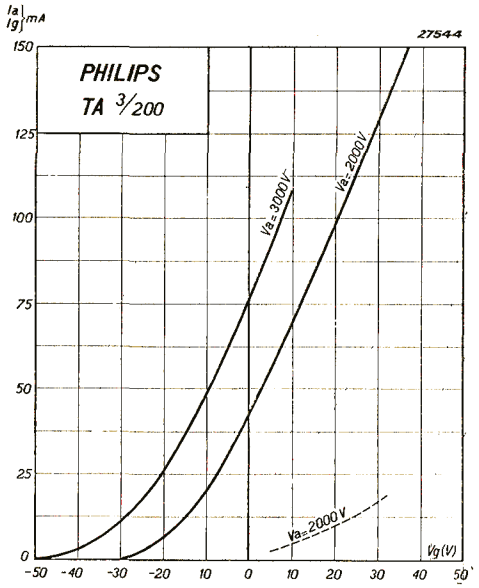
Description

This valve with tungsten filament has been constructed in such a way that compact mounting of the transmitter plant is facilitated. The TA 3/200 can be used in telegraphy or telephony transmitters on wavelengths down to 100 metres. The anode current may not exceed 80 milliamps.

In the following table the output of this valve is indicated as a function of the efficiency. The values apply to an anode voltage of 3000 volts.

Efficiency	Input	Output	Anode dissipation
40 %	240 watts	95 watts	145 watts
50 %	240 watts	120 watts	120 watts
60 %	240 watts	145 watts	95 watts
70 %	240 watts	170 watts	70 watts

The necessary connections are indicated on the dimensioned drawing.



Technical Data

Filament voltage	V_f	= 14·0 V
Filament current	I_f	= appr. 4 A
Total emission	I_s	= appr. 300 mA
Anode voltage	V_a	= max. 3000 V
Max. permissible anode dissipation	W_a	= 150 W
Anode dissipation during test	W_{at}	= 200 W
Amplificator factor	g	= appr. 72
Mutual conductance at I_a = 80 mA	S_{norm}	= appr. 2·9 mA/V
Maximum mutual conductance	S_{max}	= appr. 3·5 mA/V
Internal resistance at I_a = 80 mA	R_i	= appr. 25000 ohms
Anode/filament capacity	C_{af}	= appr. 1·6pF
Anode/grid capacity	C_{ag}	= appr. 5·5pF
Grid/filament capacity	C_{fg}	= appr. 11·2pF