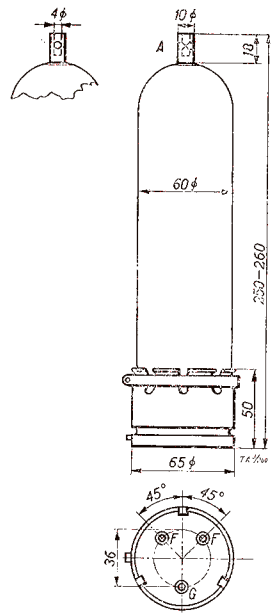


# PHILIPS



29231

TRANSMITTING VALVE

TA 5/200

PHILIPS-EMISSION

REF. 5203-138

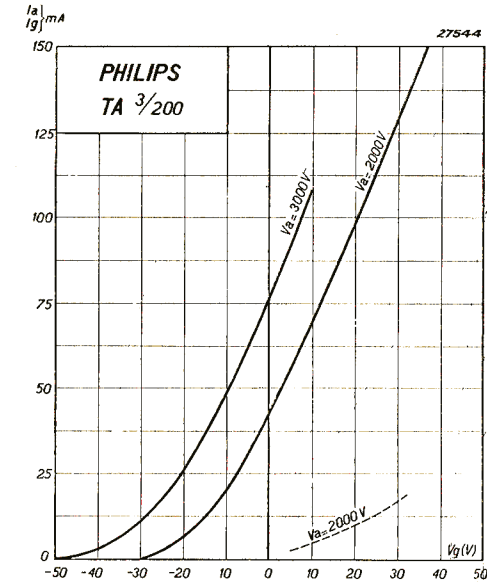
## Description

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	$I_f = \text{appr. } 4 A$
Total emission	$I_s = \text{appr. } 300 mA$
Anode voltage	$V_a = \text{max. } 3000 V$
Max. permissible anode dissipation	$W_a = 150 W$
Anode dissipation during test	$W_{at} = 200 W$
Amplificator factor	$g = \text{appr. } 72$
Mutual conductance at $I_a = 80 mA$	$S_{norm} = \text{appr. } 2.9 mA/V$
Maximum mutual conductance	$S_{max} = \text{appr. } 3.5 mA/V$
Internal resistance at $I_a = 80 mA$	$R_i = \text{appr. } 25000 \text{ ohms}$
Anode/filament capacity	$C_{af} = \text{appr. } 1.6 pF$
Anode/grid capacity	$C_{ag} = \text{appr. } 5.5 pF$
Grid/filament capacity	$C_{fg} = \text{appr. } 11.2 pF$