

## VACUUM GAUGE HEAD , BAYARD-ALPERT TYPE

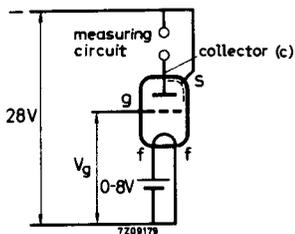
Glass envelope, ultra-high vacuum gauge head of the Bayard-Alpert type. Measuring range  $10^{-3}$  torr to  $10^{-10}$  torr; sensitivity approx. 12 per torr.

The gauge head is provided with two filaments, one of tungsten and one of lanthanum hexaboride.

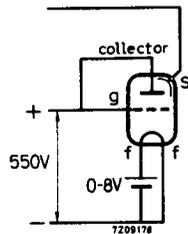
### CHARACTERISTICS

Pressure range	$10^{-3}$ to $10^{-10}$ torr
Sensitivity (for nitrogen)	approx. 12 per torr
Emission current range	$1 \mu\text{A}$ to 75 mA
Filament characteristics	see page 3
Insulation resistance	
collector to other electrodes	min. $10^{14} \Omega$
grid to other electrodes	min. $10^{12} \Omega$

### TYPICAL OPERATING CONDITIONS



Measurement



Outgassing

Grid voltage, in combination with fil. 1  
in combination with fil. 2

$V_g$	+145 V
	+178 V

Emission current (see also page 3 )

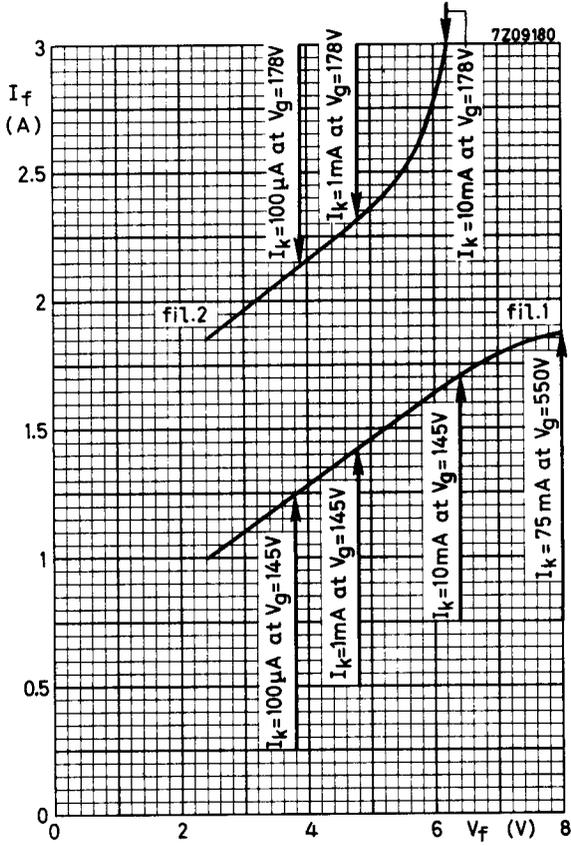
measurement

$100 \mu\text{A}$ , 1 mA or 10 mA

outgassing

75 mA





# PHILIPS

Data handbook



Electronic  
components  
and materials

## IOG17

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