VACUUM GAUGE HEAD, PENNING TYPE

Glass envelope, high vacuum gauge head of the Penning type (ccld-cathode, ionisation type). Pressure range $2x10^{-3}$ torr to 10^{-5} torr.

CHARACTERISTICS

Pressure range $2x10^{-3}$ to 10^{-5} torr

see page 3

Sensitivity

Notes:

- 1. The graph on page 3 is correct within a factor two for air, hydrogen, argon and carbon dioxide. The inaccuracy can be reduced to plus or minus 5% by calibrating for the gas composition in question.
- Water vapour contamination of the gauge head may cause misreadings; in this case it is advisable to take readings some minutes after application of the anode supply voltage.

TYPICAL OPERATING CONDITIONS

CIG-22 combined with magnet type 95380

Anode supply voltage $$V_{ba}$$ 2000 $\,V$ d.c. Anode resistor $\,R_a\,$ 1 $\,M\Omega$

LIMITING VALUES

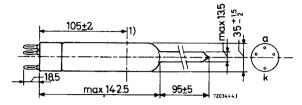
CIG-22 combined with magnet type 95380

Anode voltage $\begin{array}{cccc} \text{max.} & 2500 & \text{V} \\ \text{Anode current} & \text{max.} & 2 & \text{mA} \end{array}$

MECHANICAL DATA

Dimensions in mm

Material of tubulation: 01 soft glass



1) Line through the centres of the cathode plates and axis of the magnetic flux lines.

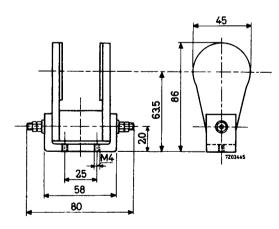
Mounting position: any

Note: When in operation the gauge has a pumping effect; to prevent misreadings due to pressure losses in the connecting tubulation, the connection to the vacuum chamber should be wide and short. Recommended dimensions are: diameter min. 10 mm and length max. 100 mm.

ASSOCIATED COMPONENTS

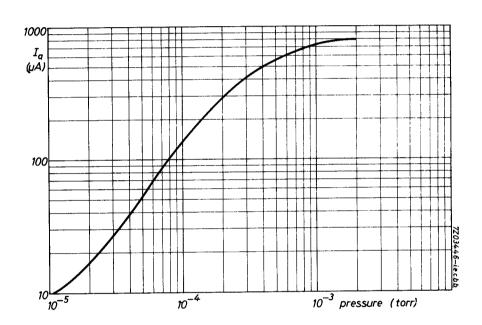
Magnet

95380



Magnet type 95380







CIG22

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