MG6-2 MU6-2 MY6-2

#### COLOUR TELEVISION PROJECTION TUBES

#### SCREEN

For screen properties please refer to front of this section

Useful screen diameter = min. 55 mm

#### HEATING

Indirect by A.C. or D.C.

Heater voltage Vr = 6.3 V Heater current Ir = 0.3 A

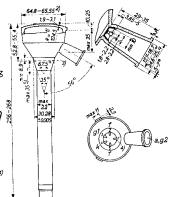
Dimensions in mm

Base: V

Net weight 145 g

Shipping weight (10 pieces) 7850 g

a,g2



The tolerance of the position of the base with respect to the tube is  $\pm \ 10^{\circ}$ 

<sup>1)</sup> Inner radius of curvature of the face plate The deviation of the centre of the outer radius of curvature with respect to the centre line of the neck is max. 2 mm

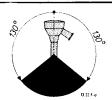
<sup>2)</sup> Eccentricity of the face plate with respect to the centre line of the neck is max. 0.9 mm

Negerence line, determined by the diameter of 30.28 ± 0.005 mm

<sup>4)</sup> Spark trap and outer coating. This connection must be earthed

<sup>5)</sup> The distance from the deflection centre to the reference line should not exceed 35 mm

#### MOUNTING POSITION



#### CAPACITANCES

Grid No.1 to all other electrodes	Cg1	=	6.3 pF
Cathode to all other electrodes	$C_{\mathbf{k}}$	=	6.3 pF
Anode and grid No.2 to outer conductive coating	Ca,g2-m	=	450 pF

### FOCUSING Magnetic

OCUSING Magnetic				
Focusing coil with iron casing				i
Number of ampere-turns at an anode and grid No.2 voltage of 25 kV		92	20	1)
Air gap	11	to 1	13	om
Distance from the centre of the air gap to the reference line	83	to 8	37	mm
Inner diameter of the inner bush		27.	.5	2020
For centring it is necessary that the can be tilted over $\mathfrak{Z}^{0}$ to either side	focusi	ing	co	11

#### DEFLECTION Magnetic

#### OPERATING CHARACTERISTICS

Anode and grid No.2 voltage	$-v_{a,g_2} =$	25 kV
Negative grid No.1 voltage for cut-off	$-v_{g_1}(i_{\ell}=0) = 40 \text{ to}$	90 V

<sup>1)</sup> Without saturation of the iron casing
In order to reduce the influence of voltage fluctuations
it is, however, advisable to saturate the iron to such
an extent that the required number of ampere-turns
becomes about 10 % higher

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#### REMARKS

Measures should be taken for the beam current to be switched off immediately when one of the time-base circuits becomes defective

An X-ray radiation shielding with an equivalent lead thickness of 0.5 mm is required to protect the observer. When the tube is used in an optical box, the screening by the box will in general be sufficient

#### LIMITING VALUES (Design centre limits)

FITTING VILLED	•				
Anode and grid No.2 voltage	$v_{a,g2}$	=	max.	25	kV1)
Negative grid No.1 voltage	-Vg1	=	max.	200	v 2)
External grid No.1 resistance	Rg <sub>1</sub>	=	max.	1.5	MΩ
External resistance between heater and cathode	Rkf	=	max.	20	kΩ
Voltage between heater and cathode	$v_{kf}$	=	max.	125	γ2)

$$-V_{g1} = max. 300 V$$
  
 $V_{kf} = max. 250 V$ 

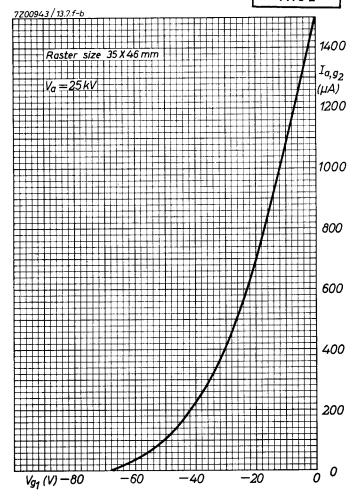
<sup>1)</sup> At nominal mains voltage and with a raster area of at least 14 cm<sup>2</sup> and a spot velocity of at least 450 m/s the load curve of the E.H.T. unit should not at any point go beyond the curve I on page B. It is desirable that under these conditions the design load curve is in accordance with curve II

The total charge of the filter capacitors in the supply unit should not exceed 130  $\mu\text{C}$ 

The curves on page B refer to application in normal colour television receivers. In case of other applications the average current should be limited to 200 uA

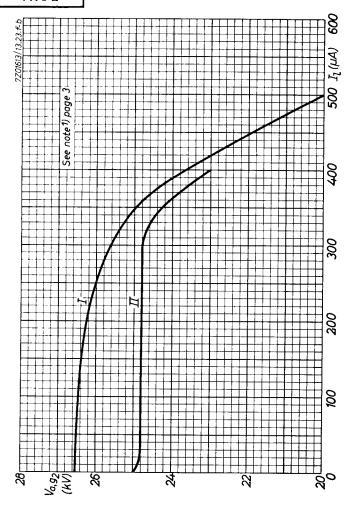
<sup>2)</sup> During the operation of the security circuit.

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# **PHILIPS**





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3	3	1963.03.03
4	Α	1963.03.03
5	В	1963.03.03
6	FP	1999.09.11