

PHILIPS**6CK6****VIDEO OUTPUT PENTODE****Physical Specifications**

Cathode	Coated unipotential
Base	Small button noval 9-pin
Bulb	T6½
Maximum overall length	3 1/16"
Maximum seated height	2 13/16"
Bulb length excluding tip	2 7/16" ± 3/32"
Maximum diameter	7/8"
Mounting position	any
Basing connections - JETEC	
basing designation	9AR

Pin 1 - Grid No.2

**Bottom view
of base****Tube outline**

Pin 2 - Grid No.1

Pin 3 - Cathode

Pin 4 - Heater

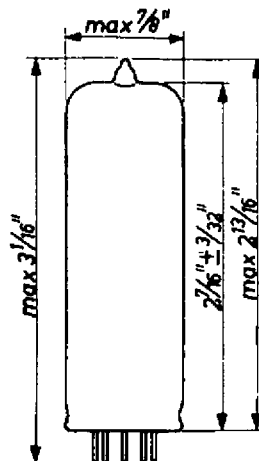
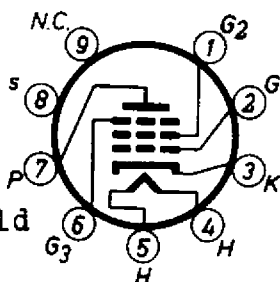
Pin 5 - Heater

Pin 6 - Grid No.3

Pin 7 - Plate

Pin 8 - Internal shield

Pin 9 - Not connected

**General Electrical Data****Heater data**

Heater voltage

6.3 volts

Heater current

0.71 amp

Direct Interelectrode CapacitancesPlate to all other elements except
grid No.1

6.6 μμF

Grid No.1 to all other elements
except plate

11.2 μμF

Plate to grid No.1

max. 0.1 μμF

Grid No.2 to grid No.1

3.2 μμF

Grid No.1 to heater

max. 0.15 μμF

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N.V. PHILIPS 'GLOEILAMPENFABRIEKEN, Eindhoven, Holland.

Ratings (Design center values)

Plate voltage (without current)	max.	550 volts
Plate voltage	max.	300 volts
Plate dissipation	max.	9 watts
Grid No.2 voltage (without current)	max.	550 volts
Grid No.2 voltage	max.	300 volts
Grid No.2 dissipation	max.	2 watts
Cathode current	max.	70 ma
Grid No.1 current starting point.		
Grid No.1 voltage at grid No.1 current = +0.3 μ amp	max.	-1.3 volts
Grid No.1 circuit resistance	max.	1 megohm ¹⁾
Grid No.1 circuit resistance	max.	0.5 megohm ²⁾
External resistance between heater and cathode	max.	20,000 ohms
Voltage between heater and cathode	max.	100 volts

Typical characteristics

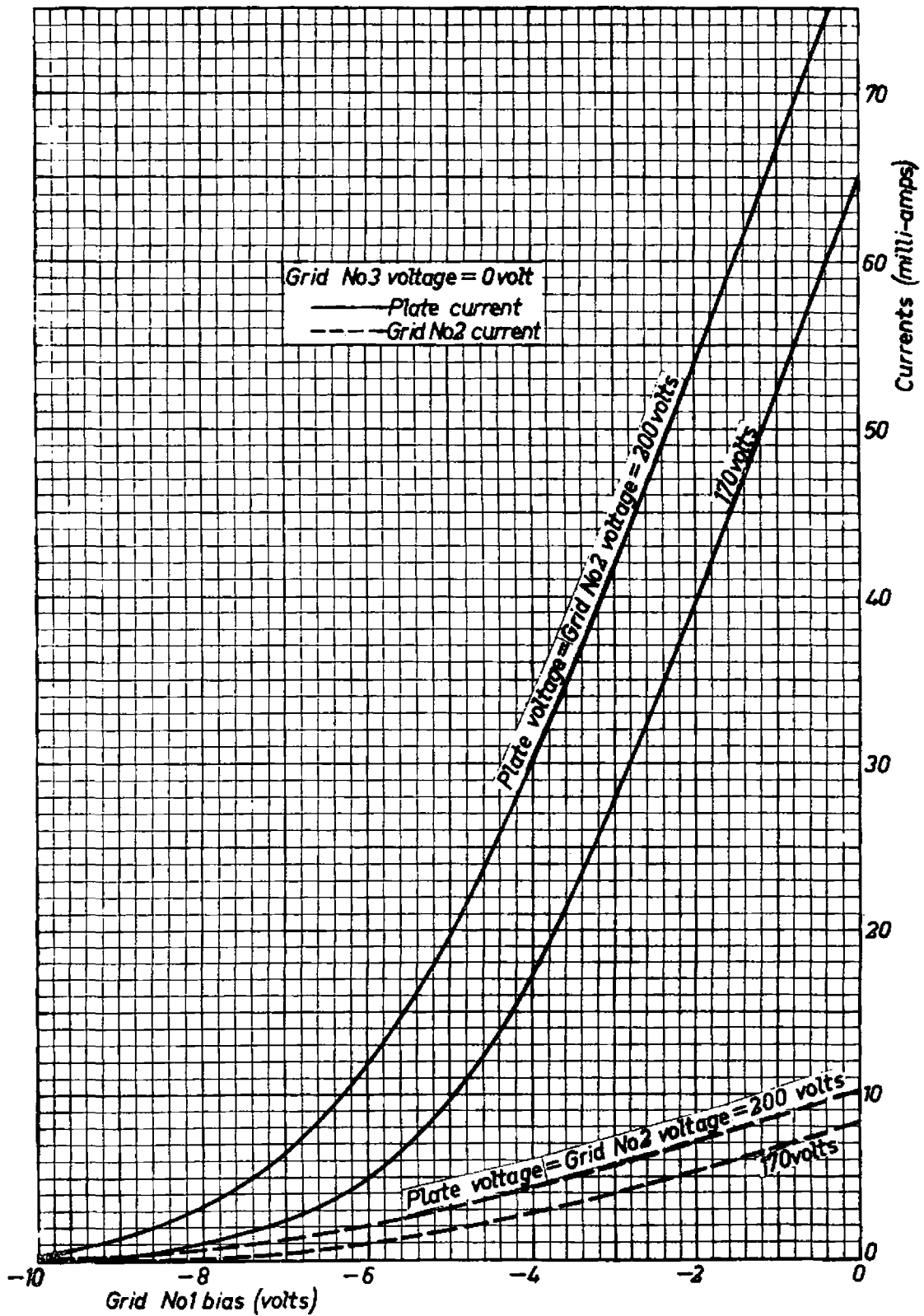
Plate voltage	250 volts
Grid No.3 voltage	0 volt
Grid No.2 voltage	250 volts
Grid No.1 voltage	-5.5 volts
Plate current	36 ma
Grid No.2 current	5 ma
Transconductance	10,000 micromhos
Plate resistance	0.13 megohm
Amplification factor of grid No.2 with respect to grid No.1	24

¹⁾ With automatic grid bias

²⁾ With fixed grid bias

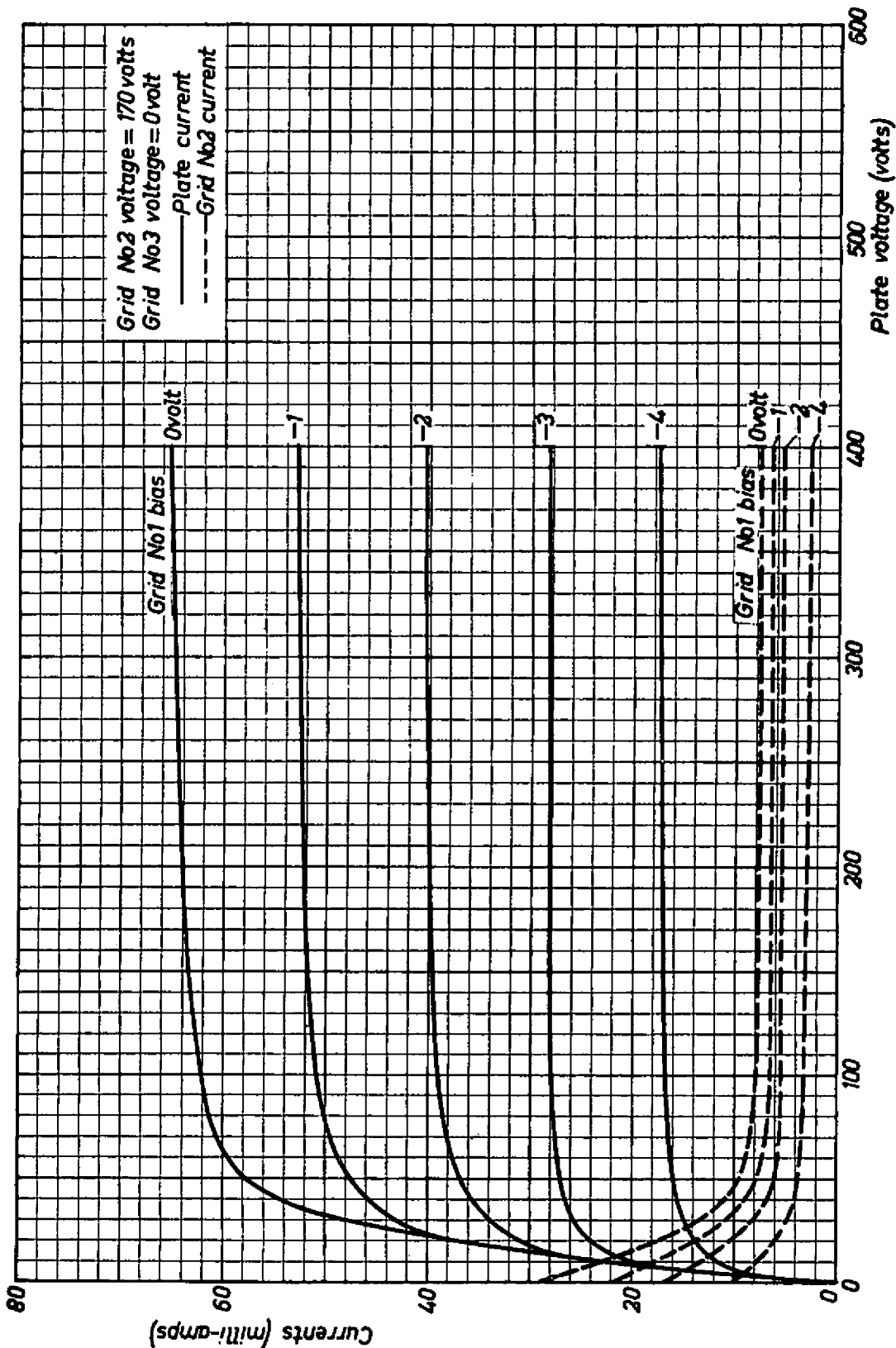
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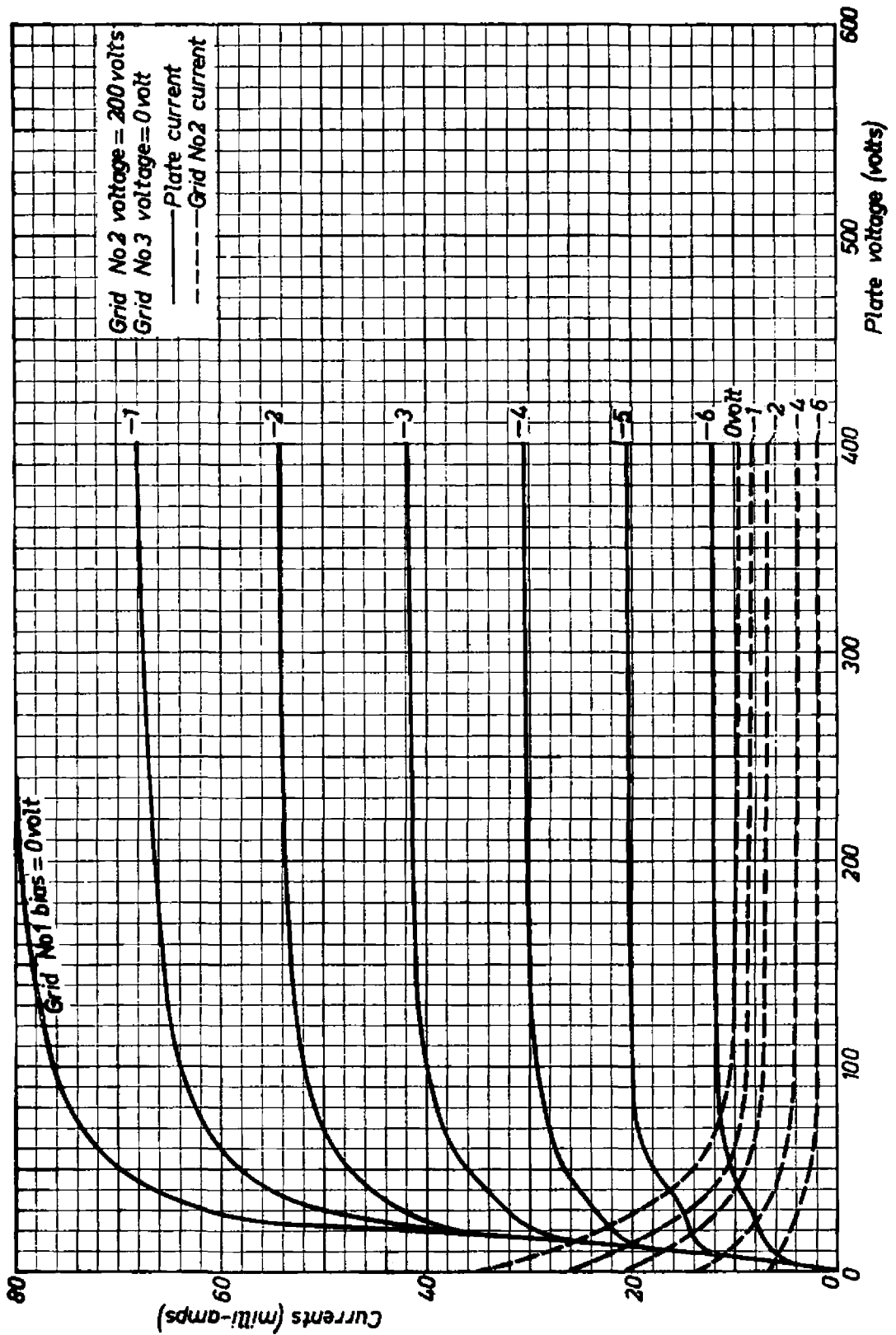
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