

8-60

Vrijgaverapport

D14-120 en

D14-121.

Vrijgaverapport D14-120.. en D14-121..

Omschrijving:

Oscillograafbuis met metal backing, rechthoekig scherm (10x8 cm²) en gaasje.
De deflectieplaatverbindingen zijn bij de D14-120.. aan de voet en bij de D14-121.. d.m.v. zijkontakten uitgevoerd.

Inhoud:

1. Situatie rapport
2. Verslag vrijgavebespreking
3. Opbrengst resultaten proeffabrikage
4. Resultaten Kwaliteitslab.
5. Meeteisen
6. Samenstellingstekening + stuklijst
7. Publikatiegegevens

Vrijgave: FABRIKAGE

Type: D14-120GH/GP

Datum vergadering: 21-8-1968

Aanw. HH:

| | Opmerkingen. | Te beh.door |
|--|--------------|-------------|
| <p>A. <u>Algemeen:</u></p> | | |
| <p>1. Omschrijving: GOEDKOPE RECHTHOEKIGE</p> | | |
| <p>(DIAGONAAL 14CM) OSC. BUIS MET GAASJE</p> | | |
| <p>2. Ontw. type nr: 47 D14 GH/GP</p> | | |
| <p>3. Comm. type nr: D14-120 GH/GP</p> | | |
| <p>4. Ontwikkeld op initiatief van: C.A.</p> | | |
| <p>5. Budget nr: OK. 5033</p> | | |
| <p>6. Ontw. gestart d.d: Nov. '65</p> | | |
| <p>7. Vrijgegeven voor proeff. d.d: -</p> | | |
| <p>B. <u>Publicatie- en meetgegevens.</u></p> | | |
| <p>1. Target spec. d.d: 29-8-'67</p> | | |
| <p>2. Voorl. public. gegevens:</p> | | |
| <p>d.d: Sept. '66</p> | | |
| <p>3. Def. public. gegevens:</p> | | |
| <p>d.d: Jan. '68</p> | | |
| <p>4. Concept meeteisen d.d: Mei '68</p> | | |
| <p>5. Lab. eisen d.d: -</p> | | |
| <p>6. F.+II eisen d.d: IN BEWERKING</p> | | |
| <p>C. <u>Constructie + fabricage gegevens.</u></p> | | |
| <p>1. Tekeningen + samenstellingen:</p> | | |
| <p>d.d: 25-6-'68</p> | | |
| <p>2. Montage voorschrift kanon:</p> | | |
| <p>d.d: 20-12-67</p> | | |
| <p>3. Ballon bewerkingsvoorschriften:</p> | | |
| <p>d.d: 16-4-68 TOEGEVOEGD AAN</p> | | |
| <p>d.d: RV 3-6-68/A402</p> | | |
| <p>d.d:</p> | | |
| <p>d.d:</p> | | |
| <p>4. Pompvoorschrift: TOEGEVOEGD AAN DH13-78</p> | | |
| <p>d.d: 16-4-'68</p> | | |
| <p>5. Afvonkvoorschrift d.d:</p> | | |
| <p>Brandvoorschrift d.d: } TOEGEVOEGD AAN</p> | | |
| <p>Sweepvoorschrift d.d: } 23-1-'68</p> | | |
| <p>6. Glaskeuringsvoorschrift d.d:</p> | | |
| <p>TOEGEVOEGD RV 3-6-52/A440</p> | | |
| <p>7. AFW. VOORSCHRIFT:</p> | | |
| <p>TOEGEVOEGD D10-170 GH 23-1-'68</p> | | |

D. Onderdelen situatie.

- 1. Metalen onderdelen gemaakt/geleverd door: J.R. Schoenmakers
- 2. Gecodeerd: Ja
Te wijzigen onderdelen: /
- 3. Glasonderdelen gemaakt/geleverd door: GLASFAB. A / HR. OTTO

E. Montage gereedschap.

Provisoirisch/Definitief. KAT. + pl. st. lasapp. voorlopig bij ONTW.
Nog te wijzigen: /

F. Bijzondere apparatuur.

G. Sterkte onderzoek.

1 x 4,9 ATM VERSCHILDRUK: STUK

H. Verpakking.

1 x 5 ATM VERSCHILDRUK: GOED

I. Kostprijs.

WACHT OP GOEDKEURING VAN EEN GOEDKOPE VERPAKKING (SCHUIMBLOKKEN ZIJN VERNANGEN DOOR HOEKROLLEN)

~~de~~ kostprijs calculatie d.d: Jan '68
Gecalculeerd door: Hr. NIDDEL

Bij jaarserie van: KL SERIE stuks.

Prijs excl. I.K: f 175,- zie ook rapport vrijgave bespreking-

~~de~~ kostprijs calculatie d.d:

Gecalculeerd door:

Bij jaarserie van: stuks.

Prijs excl. I.K:

J. Resultaten proeffabricage.

- 1. Voorgecalculeerde uitval: 30% kl serie %
- 2. Aantal ingesmolten buizen: 132
- 3. Aantal afgeleverde buizen: 102
- 4. Opbrengst proeffabricage: 75,8 %
- 5. Conclusie:

K. Resultaten levensduur.

1. Pract. bedrijfsomstandigheden.

Spanning: 1500 / 10.000 V

Stroom: 10 μ A

2. Levensduur testcondities.

Spanning: 1500 / 10.000 V

Stroom: 25 μ A

3. Gegarandeerde levensduur: 1000 uur.

4. Resultaten levensduurproeven:

L. Octrooi situatie.

M. Zwakke punten.

- 1. Scherm: /
- 2. Electrisch: /
- 3. Mechanisch: /

N. Bijzonderheden vrijgave serie.

O. Conclusie.

Buis vrijgeven voor: FABRIKAGE

Aantal:

acc. Ontw. J.R. PEPER

acc. Kwal. Lab. H.R. BOOMSTRA

acc. (proef) fabricage. H.R. RADSTAKE

acc. C.A. H.R. WEYER

J.R. Peper
Boomstra
Radstake
Weyer

P. Opmerkingen.

Vrijgave: FABRIKAGE

Type: D14-121 GH/GP

Datum vergadering: 21-8-68

Aanw. HH:

| | Opmerkingen. | Te beh. door |
|--|--------------|--------------|
| A. <u>Algemeen:</u> | | |
| 1. Omschrijving: GOEDKOPE RECHTHOEKIGE (DIAG. 14CM) OSC. buis MET GAASJE EN ZY-UITVOEREN VOOR X, Y EN GAASJE 2. Ontw. type nr: 53 D14 GH/GP 3. Comm. type nr: D14-121 GH/GP 4. Ontwikkeld op initiatief van: C.A. 5. Budget nr: OK 5033 6. Ontw. gestart d.d: JAN. '66 7. Vrijgegeven voor proeff. d.d: — | | |
| B. <u>Publicatie- en meetgegevens.</u> | | |
| 1. Target spec. d.d: 15-12-67 2. Voorl. public. gegevens: d.d: Jan '68 3. Def. public. gegevens: d.d: 4. Concept meeteisen d.d: Mei '68 5. Lab. eisen d.d: — 6. F.+II eisen d.d: IN BEWERKING | | |
| C. <u>Constructie + fabricage gegevens.</u> | | |
| 1. Tekeningen + samenstellingen: d.d: STUKLYST VERSCH. SAMP. TEK. IN BEWERKING 2. Montage voorschrift kanon: d.d: 20-12-67 3. Ballon bewerkingsvoorschriften: d.d: 16-4-68 TOEGEVOEGD RV 3-6-68/A 402 d.d: d.d: d.d: 4. Pompvoorschrift: TOEGEVOEGD AAN D113-78 d.d: 16-4-68 5. Afvonkvoorschrift d.d: Brandvoorschrift d.d: } TOEGEVOEGD D7-1906H Sweepvoorschrift d.d: } 23-1-68 6. Glaskeuringsvoorschrift d.d: TOEGEVOEGD RV 3-6-52/A440 7. AFWERKINGS VOORSCHRIFT TOEGEVOEGD D13-17 GH 16-4-68 | | |

D. Onderdelen situatie.

- 1. Metalen onderdelen gemaakt/geleverd door: J.R. SCHOENMAKERS
- 2. Gecodeerd: JA
Te wijzigen onderdelen: /
- 3. Glasonderdelen gemaakt/geleverd door: GLASFABR. A/HR.OTTO

E. Montage gereedschap.

~~Provisoirisch~~/Definitief. KAT. + pl. st. lassen voorlopig bij ONTW.
Nog te wijzigen: /

F. Bijzondere apparatuur.

G. Sterkte onderzoek.

Druk 4,9 ATM. VERSCHILDRUK: STUK

H. Verpakking. " 5 " " : GOED

I. Kostprijs.

WACHT OP GOEDKEURING

1e kostprijs calculatie d.d: JAN. '68
 Gecalculeerd door: HR. MIDDEL
 Bij jaarserie van: KL. SERIE stuks.
 Prijs excl. I.K: f 182,- : zie ook rapport

vrijgave bespreking

2e kostprijs calculatie d.d:
 Gecalculeerd door:
 Bij jaarserie van: stuks.
 Prijs excl. I.K:

J. Resultaten proeffabricage.

- 1. Voorgecalculeerde uitval: 30% KL. SERIE
- 2. Aantal ingesmolten buizen: 189
- 3. Aantal afgeleverde buizen: 137
- 4. Opbrengst proeffabricage: 72,5
- 5. Conclusie:

K. Resultaten levensduur.

- 1. Pract. bedrijfsomstandigheden.
Spanning: 1500/10.000 V
Stroom: 10 μ A
- 2. Levensduur testcondities.
Spanning: 1500/10.000 V
Stroom: 25 μ A
- 3. Gegarandeerde levensduur: 1000 uur.
- 4. Resultaten levensduurproeven:

L. Octrooi situatie.

M. Zwakke punten.

- 1. Scherm: /
- 2. Electrisch: //
- 3. Mechanisch: //

N. Bijzonderheden vrijgave serie.

GEEN

O. Conclusie.

Buis vrijgeven voor: FABRIKAGE

Aantal:

acc. Ontw. J.A. PEPER

acc. Kwal. Lab. Hr. BOOMSTRA

acc. (proef) fabricage. Hr. RADSTAKE

acc. C.A. Hr. WEYER

P. Opmerkingen.

Rapport vrijgavebespreking D14-120 en D14-121

d.d. 21.8.1968.

Aanwezig HH.: Boomstra, Cox, Peper, Thijssen, Radstake,
Verhoeven, Wassenaar, Weyer en Willems.
Modderman

Publikatie: Limiting values: V max = 10 ± 1 kV
Grid drive max 20 V.

Typical values:

1. defl.factor y: gemiddeld 4.2 V/cm
 y max 4.6 "
 x gemiddeld 15.5 "
 x max 16 "

De deflectiefactor bij groter uitsturing wordt nog door het Kwal.lab. bepaald uit reeds gemeten lineairiteitsmetingen.

N.B. De resultaten zijn in grafiek weergegeven: M_x en $M_y = f$ (uitsturing)

2. Focusspanning: V_{g3} 250 - 350 V. gemeten werd gemiddeld 310 V op CJZ. Bij hogere stromen wordt deze iets lager.
3. Afknijpspanning: $-V_{g1}$ 20 - 60 V.
 gemeten: gemiddeld $V_{g1} = 38$ V.
4. „Grid drive" voor 10 μ A approx. 12 V.
5. Rastervervorming: (publ.) 75 x 95 - 73.6 x 92.8 mm., dit is gelijk aan II-eis
F-eis wordt: 75 x 95 - 73.6 x 93 mm.
6. Lineairiteit: max. 2% voor 25% uitsturing t.o.v. 75% uitsturing.
7. Hoekverdraaiing: x-trace t.o.v. scherm-as max. $\pm 5^\circ$
naversnellingskontakt t.o.v. scherm max. $\pm 10^\circ$.
8. Penlengte: detail toevoegen, lengte wijzigen.
9. Schermafmetingen: hoogte max. 100 (gemeten \bar{x} 98.03 mm)
 breedte " 120 (gemeten \bar{x} 119 mm)
 diagonaal
 max. 151

Verpakking: Nieuwe (goedkope) verpakking met hoekrollen is niet goed. Het V.O.B. werkt dit verder uit.

| <u>Prijzen (+IK)</u> | Met Wertheim ballon: | D14-120 | D14-121 |
|----------------------|--|----------|----------|
| | 70% voorcalculatie | f. 158.- | f. 165.- |
| | 80% " | f. 143.- | f. 149.- |
| | Philips ballon (70% voorcalculatie) | f. 187.- | f. 194.- |

Overzicht D14-120Serie 816-818-819

Totaal ingezet: 138 buizen
 Totaal afgel. : 108 buizen
 Uitval: 30 buizen
 Retour kwal.lab. 6 buizen
 Opbrengst: 74%

Uitval specificatie:

| | |
|---------------------|---|
| 1) Rastervervorming | 5 |
| 2) Losse draad | 3 |
| 3) Geplakte draad | 2 |
| 4) Emissie | 3 |
| 5) Breuk ballon | 3 |
| 6) Vuil Xpl. | 3 |
| 7) Vuil diafragma | 2 |
| 8) Losse las | 2 |
| 9) Scherm | 1 |
| 10) Gas | 1 |
| 11) Breuk multiform | 1 |
| 12) Geen getter | 2 |
| 13) Afschaduwen | 1 |
| 14) Sluiting | 1 |

Retouren kwal.lab.

| | |
|----------------|---|
| Losse draad | 2 |
| Vuil gaas | 1 |
| Geplakte draad | 1 |
| Spot oplading | 1 |
| Afschaduwen X | 1 |

| VOLGORDE NO. KANON | | 1 2 3 4 5 6 7 8 9 10 | | | | | | | | | | GOED NA REP. FAB. | | GOED NA REP. LAB. | | DEFINITIEF UITVAL | | BUISTYPE D14-120 GH | | PARTY NO. 819 | |
|---------------------|---|--|--|---------------------|--|---------------------|--|---------------------|--|---------------------|--|---------------------|--|---------------------|--|---------------------|--|---------------------|--|---------------|--|
| DIRECT GOED | | NIET AFTEKNYPEN NIET ZICHTBAAR STROOISTRALEN OVERIGE ASTIEN. NIET IN TE STELLEN FOKUS NIET IN TE STELLEN SCHEERSTROOD TE LAAG EXCENTRICITEIT TE GROOT UITSTURING (Y) GEVOELIGHEID (X) RASTERERV. (VERT.) AFSCHMADUWEN EXC. TE GROOT (Y) UITST. TE KLEIN (X) GEVOELIGHEID (Y) RASTERERV. (HOR.) AFSCHMADUWEN SCHEER GRABBE: VUIJ LOSSE DRAAD GEPL. DRAAD GEDY. DRAAD DNR. SPOED LOSSE DELEN LOSSE LAS SLUITINGEN | | | | | | | | | | GOED NA REP. FAB. | | GOED NA REP. LAB. | | DEFINITIEF UITVAL | | BUISTYPE D14-120 GH | | PARTY NO. 819 | |
| X = UITVALPOST FAB. | | X = UITVALPOST FAB. | | X = UITVALPOST FAB. | | X = UITVALPOST FAB. | | X = UITVALPOST FAB. | | X = UITVALPOST FAB. | | X = UITVALPOST FAB. | | X = UITVALPOST FAB. | | X = UITVALPOST FAB. | | X = UITVALPOST FAB. | | | |
| O = UITVALPOST LAB. | | O = UITVALPOST LAB. | | O = UITVALPOST LAB. | | O = UITVALPOST LAB. | | O = UITVALPOST LAB. | | O = UITVALPOST LAB. | | O = UITVALPOST LAB. | | O = UITVALPOST LAB. | | O = UITVALPOST LAB. | | O = UITVALPOST LAB. | | | |
| DATUM NAAR KWALLAB. | | DATUM NAAR KWALLAB. | | DATUM NAAR KWALLAB. | | DATUM NAAR KWALLAB. | | DATUM NAAR KWALLAB. | | DATUM NAAR KWALLAB. | | DATUM NAAR KWALLAB. | | DATUM NAAR KWALLAB. | | DATUM NAAR KWALLAB. | | DATUM NAAR KWALLAB. | | | |
| GOED NA REP. | | GOED NA REP. | | GOED NA REP. | | GOED NA REP. | | GOED NA REP. | | GOED NA REP. | | GOED NA REP. | | GOED NA REP. | | GOED NA REP. | | GOED NA REP. | | | |
| DEF. UITVAL | | DEF. UITVAL | | DEF. UITVAL | | DEF. UITVAL | | DEF. UITVAL | | DEF. UITVAL | | DEF. UITVAL | | DEF. UITVAL | | DEF. UITVAL | | DEF. UITVAL | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | |
| 4 | X | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | X | | | | | | | | | | | | | | | | | | | | |
| 10 | X | | | | | | | | | | | | | | | | | | | | |
| 11 | X | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | |
| 14 | X | | | | | | | | | | | | | | | | | | | | |
| 15 | X | | | | | | | | | | | | | | | | | | | | |
| 16 | X | | | | | | | | | | | | | | | | | | | | |
| 17 | X | | | | | | | | | | | | | | | | | | | | |
| 18 | X | | | | | | | | | | | | | | | | | | | | |
| 19 | X | | | | | | | | | | | | | | | | | | | | |
| 20 | X | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | |
| 22 | X | | | | | | | | | | | | | | | | | | | | |
| 23 | X | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | |
| 29 | X | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | | | | | | | | | | |
| 34 | | | | | | | | | | | | | | | | | | | | | |
| 35 | X | | | | | | | | | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | | | | | | | | | |
| 39 | X | | | | | | | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | | | | | |
| 41 | X | | | | | | | | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | | | | | | | | | |
| 43 | X | | | | | | | | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | | | | | | |
| 45 | X | | | | | | | | | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | | | | | | | | | | |
| 48 | X | | | | | | | | | | | | | | | | | | | | |
| 49 | | | | | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | | | | | |

bl. 1+2

| | | |
|-------|----|-----|
| % Tot | % | TOT |
| 100 | 56 | |
| 375 | 21 | |

3

3

1

1

1

43 24

195 11

LOSSE DR. KL X
GEPL. DR. KL X

VUIJ GAAS KL X

GAS

LOSSE DR. KL X

AFSCH. KL X

SPR. SCHERM

VUIJ Xpl
K-G. sl. KL X

Overzicht D14-121Serie 819-820-821-822

Totaal ingezet: 204 buizen
 Totaal afgeleverd: 143 buizen
 Uitval: 61 buizen
 Retour kwal.lab. 7 buizen
 Opbrengst: 66,6%

Uitval specificatie:

| | |
|--------------------------------|----|
| 1) Sprong hals,ballon,stengel: | 16 |
| 2) K-G1 sluiting | 12 |
| 3) Losse las | 7 |
| 4) Scherm | 5 |
| 5) Ingebrand | 1 |
| 6) Losse draad | 3 |
| 7) Vuil gaasje | 3 |
| 8) Fokus scheef | 1 |
| 9) Emissie | 3 |
| 10) Te nauwe hals | 1 |
| 11) Vuil Xpl. | 2 |
| 12) Vuil diafragma | 1 |
| 13) Rastervervorming | 1 |
| 14) losse delen | 1 |
| 15) Afschaduwen | 1 |
| 16) Oplading | 1 |
| 17) Centreerplaat krom | 2 |

Retouren kwal.lab.

| | |
|----------------|---|
| Losse draad | 2 |
| Metal backing | 2 |
| Gas | 1 |
| Sluiting G5/G6 | 1 |
| Rasterverv. | 1 |

| % Tot | % | TOT |
|-------|----|-----|
| 100 | 16 | |
| 50 | 8 | |
| | 1 | |
| | 1 | |
| | 1 | |
| 6.3 | 1 | |
| 43.7 | 7 | |
| | | 1 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|----|---|---|---|---|---|---|---|---|----|
| 1 | X | | | | | | | | |
| 2 | | X | | | | | | | |
| 3 | X | | | | | | | | |
| 4 | X | | | | | | | | |
| 5 | X | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | X | | | | | | | | |
| 9 | X | | | | | | | | |
| 10 | | X | | | | | | | |
| 11 | | | | | | | | | |
| 12 | X | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | X | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |

VOLGORDEN: KANDON
 DIRECT GOED
 NIET AF TE KNYPEN
 NIET ZICHTBAAR
 STRAALSTRALEN
 OVERIGE
 1
 2
 3
 4
 5
 6
 7
 8
 9
 10

ASTIG. NIET IN TE STELLEN
 FOKUS NIET IN TE STELLEN
 SCHEERSTROOD TE LAAG
 EXCENTRICITEIT TE GROOT
 UITSTURING (Y)
 GEVOELIGHEID (X)
 RASTERVERV. (VERT.)
 AFSCHEMIDUNGEN
 EXC. TE GROOT (Y)
 UITST. TE KLEIN (X)
 GEVOELIGHEID (Y)
 RASTERVERV. (HOR.)
 AFSCHEMIDUNGEN
 SCHEER
 GAARDE: VUIJ
 LOSSE DRAAD
 GEPL. DRAAD
 GEDE. DRAAD
 ONR. SPOED
 LOSSE DELEN
 LOSSE LAS
 SLUITINGEN

BUISTYPE D14-121 GH
 PARTYNR. 819
 X = UITVALPOST FAG.
 O = UITVALPOST LAB.

| DATUM NAAR KWALAB. | GOED NA REP. | DEF. UITVAL |
|--------------------|--------------|------------------|
| 21-5 | | |
| 12-6 | | |
| 21-5 | | |
| 21-5 | | |
| 21-5 | | |
| | X | SPR. HALS |
| | X | SPR. HALS |
| 21-5 | | |
| 21-5 | | RASTERVERT. K.L. |
| | X | INGEBRAND |
| | X | SPR. SCHEER |
| 21-5 | | |
| | X | K-G. |
| 21-5 | | |
| | X | DREUK STENGE |
| | X | Xpl. Los |

GH

| | | | |
|---|-----|---|-----|
| % | Tot | % | Tot |
| | | | |

| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | BUISTYPE D14-121 GP | | | |
|----|---|----------------------------|---|---|---|---|---|---|---|---|----|----------------------------|--------------|-------------|---|
| | | VOLGORDEN? KANON | | | | | | | | | | PARTY N ^o : 821 | | | |
| | | DIRECT GOED | | | | | | | | | | X = UITVALPOST FAB. | | | |
| | | NIET AFTE KNYPEN | | | | | | | | | | O = UITVALPOST LAB. | | | |
| | | NIET ZICHTBAAR | | | | | | | | | | DATUM NAAR | | | |
| | | STROPISTRALEN | | | | | | | | | | KWALAB. | GOED NA REP. | DEF. UITVAL | |
| | | OVERIGE | | | | | | | | | | | | | |
| | | ASTIGN. NIET IN TE STELLEN | | | | | | | | | | | | | |
| | | FOKUS NIET IN TE STELLEN | | | | | | | | | | | | | |
| | | SCHEIDSTROOD TE LAAG | | | | | | | | | | | | | |
| | | EXCENTRICITEIT TE GROOT | | | | | | | | | | | | | |
| | | UITSTURING (Y) | | | | | | | | | | | | | |
| | | GEVOELIGHEID (X) | | | | | | | | | | | | | |
| | | RASTERVERV. (VERT.) | | | | | | | | | | | | | |
| | | AFSCHMADUWEN | | | | | | | | | | | | | |
| | | EXC. TE GROOT (Y) | | | | | | | | | | | | | |
| | | UITST. TE KLEIN (X) | | | | | | | | | | | | | |
| | | GEVOELIGHEID (Y) | | | | | | | | | | | | | |
| | | RASTERVERV. (HOR.) | | | | | | | | | | | | | |
| | | AFSCHMADUWEN | | | | | | | | | | | | | |
| | | . SCHEID | | | | | | | | | | | | | |
| | | GAASDE: VUIL | | | | | | | | | | | | | |
| | | LOSSE DRAAD | | | | | | | | | | | | | |
| | | GEPL. DRAAD | | | | | | | | | | | | | |
| | | GEEX. DRAAD | | | | | | | | | | | | | |
| | | ONR. SPOED | | | | | | | | | | | | | |
| | | LOSSE DELEN | | | | | | | | | | | | | |
| | | LOSSE LAS | | | | | | | | | | | | | |
| | | SLUITINGEN | | | | | | | | | | | | | |
| | | GOED NA REP. FAB. | | | | | | | | | | | | | |
| | | GOED NA REP. LAB. | | | | | | | | | | | | | |
| | | DEFINITIEF UITVAL | | | | | | | | | | | | | |
| 51 | X | | | | | | | | | | | 7-6 | KRAS | KL | X |
| 52 | X | | | | | | | | | | | 7-6 | Vuil GAAS | KL | X |
| 53 | X | | | | | | | | | | | 7-6 | | | |
| 54 | X | | | | | | | | | | | 7-6 | | | |
| 55 | | | X | | | | | | | | | 7-6 | | | |
| 56 | X | | | | | | | | | | | 7-6 | | | |
| 57 | X | | | | | | | | | | | 7-6 | | | |
| 58 | | | | | | | | | | | | 7-6 | GASKRUIS | | X |
| 59 | | | X | | | | | | | | | 7-6 | Xpl. | | |
| 60 | X | | | | | | | | | | | 7-6 | | | |
| 61 | | | | | | | | X | | | | 7-6 | | | |
| 62 | | | | | | | | | | | | 7-6 | LUCHTBEL | | |
| 63 | | | | | | | | X | | | | 7-6 | | | |

| VOLGORDE N° KANON | | DEFINITIEF UITVAL | | | | | | | | | | BUISTYPE D14-121 GP | | PARTY N° 822 | | | | | |
|----------------------------|---|-------------------|--|--|---|--|--|--|--|--|--|---------------------|--|---------------------|--|--|------|------------------|----------------------|
| DIRECT GOED | | GOED NA REP. FAB. | | | | | | | | | | X = UITVALPOST FAB. | | O = UITVALPOST LAB. | | | | | |
| NIET AFTE KNYPEN | | GOED NA REP. LAB. | | | | | | | | | | DATUM NAAR | | KVALAB. | | | | | |
| NIET ZICHTBAAR | | DEFINITIEF UITVAL | | | | | | | | | | | | GOED NA REP. | | | | | |
| STRORISTRALEN | | | | | | | | | | | | | | DEF. UITVAL | | | | | |
| OVERIGE | | | | | | | | | | | | | | | | | | | |
| ASTIGD. NIET IN TE STELLEN | | | | | | | | | | | | | | | | | | | |
| FOKUS NIET IN TE STELLEN | | | | | | | | | | | | | | | | | | | |
| SCHEMESTROOD TE LAAG | | | | | | | | | | | | | | | | | | | |
| EXCENTRICITEIT TE GROOT | | | | | | | | | | | | | | | | | | | |
| UITSTURING (Y) | | | | | | | | | | | | | | | | | | | |
| GEVOELIGHEID (X) | | | | | | | | | | | | | | | | | | | |
| RASTERVERV. (V.BAT.) | | | | | | | | | | | | | | | | | | | |
| AFSCHMADUWEN | | | | | | | | | | | | | | | | | | | |
| EXC. TE GROOT (Y) | | | | | | | | | | | | | | | | | | | |
| UITST. TE KLEIN (X) | | | | | | | | | | | | | | | | | | | |
| GEVOELIGHEID (Y) | | | | | | | | | | | | | | | | | | | |
| RASTERVERV. (HOR.) | | | | | | | | | | | | | | | | | | | |
| AFSCHMADUWEN | | | | | | | | | | | | | | | | | | | |
| SCHEMID | | | | | | | | | | | | | | | | | | | |
| GRANDE: VUIL | | | | | | | | | | | | | | | | | | | |
| LOSSE DRAAD | | | | | | | | | | | | | | | | | | | |
| GEPL. DRAAD | | | | | | | | | | | | | | | | | | | |
| GEEX. DRAAD | | | | | | | | | | | | | | | | | | | |
| DNR. SPOED | | | | | | | | | | | | | | | | | | | |
| LOSSE DELEN | | | | | | | | | | | | | | | | | | | |
| LOSSE LAS | | | | | | | | | | | | | | | | | | | |
| SLUITINGEN | | | | | | | | | | | | | | | | | | | |
| GOED NA REP. FAB. | | | | | | | | | | | | | | | | | | | |
| GOED NA REP. LAB. | | | | | | | | | | | | | | | | | | | |
| DEFINITIEF UITVAL | | | | | | | | | | | | | | | | | | | |
| 1 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 3 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 4 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 5 | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | X | | | | | | | | | | | | | X | PUNT DES |
| 7 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 8 | X | | | | | | | | | | | | | | | | 12-6 | METALLOS K.L. | X |
| 9 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 10 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 11 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 12 | | | | | | | | | | | | | | | | | 12-6 | K-G. ISOL. RS KL | X |
| 13 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 14 | | | | | | | | | | | | | | | | | | X | DR. STENGEI |
| 15 | | | | | | | | | | | | | | | | | | X | SPR. VOET |
| 16 | | | | | | | | | | | | | | | | | | X | |
| 17 | | | | | | | | | | | | | | | | | | X | LAS BOL |
| 18 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 19 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 20 | | | | | | | | | | | | | | | | | | X | |
| 21 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 22 | | | | | | | | | | | | | | | | | | X | |
| 24 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 25 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 26 | | | | | | | | | | | | | | | | | | X | opl. |
| 27 | | | | | | | | | | | | | | | | | | X | opl. |
| 28 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 29 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 30 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 31 | | | | | | | | | | | | | | | | | | X | CENTR. PL. INGEDEUKT |
| 32 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 33 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 34 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 35 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 36 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 37 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 38 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 39 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 40 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 41 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 42 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 43 | | | | | | | | | | | | | | | | | | X | |
| 44 | | | | | | | | | | | | | | | | | | X | VERV. INSCHUIVEN |
| 45 | | | | | | | | | | | | | | | | | | X | Xpl. LOS |
| 46 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 47 | | | | | | | | | | | | | | | | | | X | PUNT DES |
| 48 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 49 | X | | | | | | | | | | | | | | | | 12-6 | | |
| 50 | X | | | | | | | | | | | | | | | | 12-6 | | |

bl. 142

| % | TOT | % | TOT |
|-----|-----|---|-----|
| 100 | 60 | | |
| 64 | 39 | | |

3

2 1

1

1 3 3

1

7

14

D14-120 en D14-121 uitvaloverzicht Kwaliteitslab.

| | | | | |
|----------------|-----------------------------------|---|---------------|--------|
| 1 ^e | Proeffabricage-serie | D14-120 | GH | 22 st. |
| | 1 st. afschaduwen | | | |
| | 3 st. kras op het scherm | | | |
| | 2 st. na rep. afgeleverd aan mag. | | | |
| 2 ^e | Vrijgave-serie | D14-120 | GH | 40 st. |
| | 818 - 25 | vuil op defl.plaat | | |
| | 818 - 48 | spotoplading | | |
| | 818 - 29 | vuil op gaasje | | |
| | 818 - 16 | afschaduwen na rep. afgeleverd aan mag. | | |
| 3 ^e | Proeffabricage-serie | D14-120 | GH | 45 st. |
| | 819 - 38 | vuil op gaasje | | |
| | 819 - 25 | centreerveren + rastervervorming | | |
| | 819 - 49 | vuil op gaasje | | |
| | 819 - 56 | vuil op gaasje | | |
| | 819 - 2 | sluiting k/g1 | | |
| | 819 - 48 | rastervervorming t.g.v. oplading | | |
| | 818 - 48 | spotoplading t.g.v. bundel scheef | | |
| 3 ^e | Proeffabricage-serie | D14-121 | GH | 8 st. |
| | 819 - 9 | rastervervorming | | |
| 4 ^e | Proeffabricage-serie | D14-121 | GP | 32 st. |
| | 820 - 60 | sluiting g5/g6 | | |
| | 820 - 43 | rastervervorming in vrijgaveserie | | |
| 5 ^e | Vrijgave-serie | D14-121 | GP | 54 st. |
| | | D14-121 | GH | 2 st. |
| | 821 - 57 | gaskruis | GH | |
| | 821 - 20 | excentrisch | vrijgaveserie | |
| | 821 - 52 | vuil op gaasje | | |
| | 820 - 61 | strooistralen | | |
| | 821 - 51 | kras op het scherm | | |
| | 821 - 15 | strooistralen | | |
| | 821 - 13 | rastervervorming | vrijgaveserie | |
| 6 ^e | Vrijgave-serie | D14-121 | GP | 46 st. |
| | 822 - 8 | metaallaag beschadigd, deeltje in buis | | |

| | | |
|---------|-----------------|---|
| Totaal: | vuil gaas | 5 |
| | afschaduwen | 2 |
| | vuil defl.plaat | 1 |
| | spotoplading | 2 |
| | punt in scherm | 1 |
| | kras op scherm | 2 |
| | sluiting | 2 |
| | rasterverv. | 5 |
| | excentrisch | 1 |
| | strooistralen | 2 |
| | los deel | 1 |

Totaal ontvangen: 249

Totaal uitval: 24 = ca. 10%.

K. Wassenaar,
Kwal.lab.K.S.B.,
14 aug. 1968.

| Vf | STEMPEL | | ONTVANGEN OP | | | | VOOR VERGARE. | | | | GEZIEN | | | | ONDERVERM. TING. | |
|-----------|---------|-------|--------------|------|------|------|---------------|------|------|------|--------|------|------|------|------------------|------|
| | (N=1) | (N=2) | b,3 | b,3 | b,3 | b,3 | b,3 | b,3 | b,3 | b,3 | b,3 | b,3 | b,3 | b,3 | | b,3 |
| | INST | INST | INST | INST | INST | INST | INST | INST | INST | INST | INST | INST | INST | INST | INST | INST |
| D14-1209H | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219P | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219G | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219B | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219A | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219C | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219D | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219E | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219F | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219G | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219H | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219I | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219J | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219K | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219L | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219M | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219N | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219O | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219P | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219Q | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219R | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219S | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219T | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219U | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219V | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219W | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219X | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219Y | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| D14-1219Z | 2300 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |

D 14-120

BEWÄHRUNG LINIARITÄT
DER DIVISIE

10-6-68

g.g.

X

Y

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+6

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0.6-6

0.19-20

0.18-36

0.18-19

0.16-8

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0.18-19

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0.16-8

0.16-6

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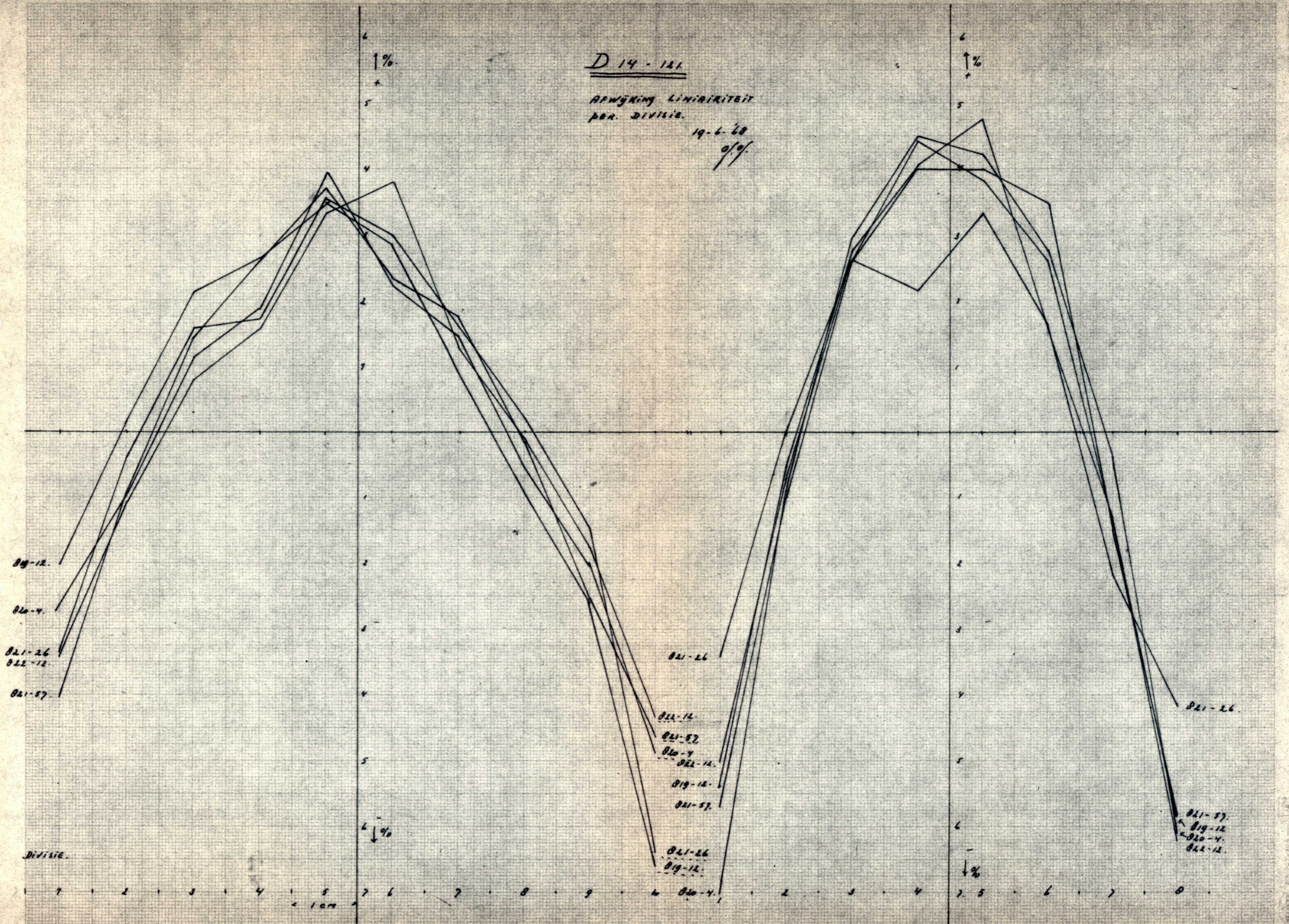
1cm

1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8

D 14 - 121

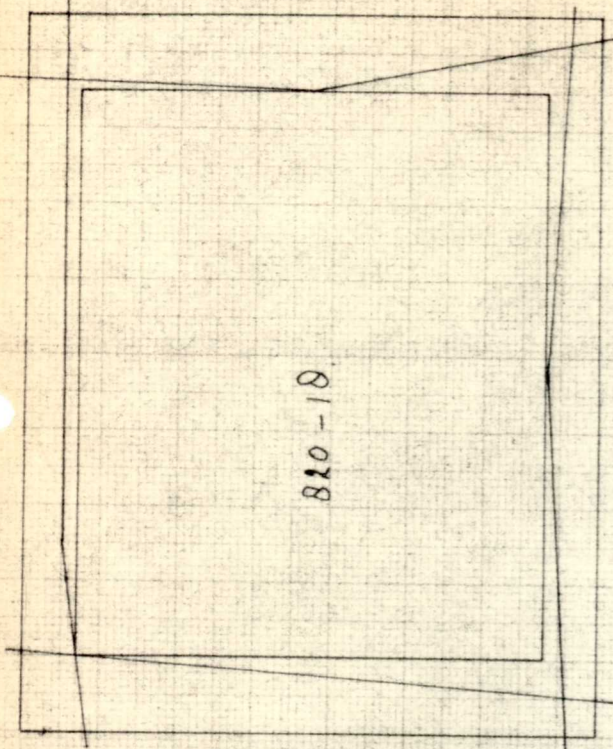
AFWĪKING LINIARITEIT
POR. DIVISIE.

19-6-68
g/g

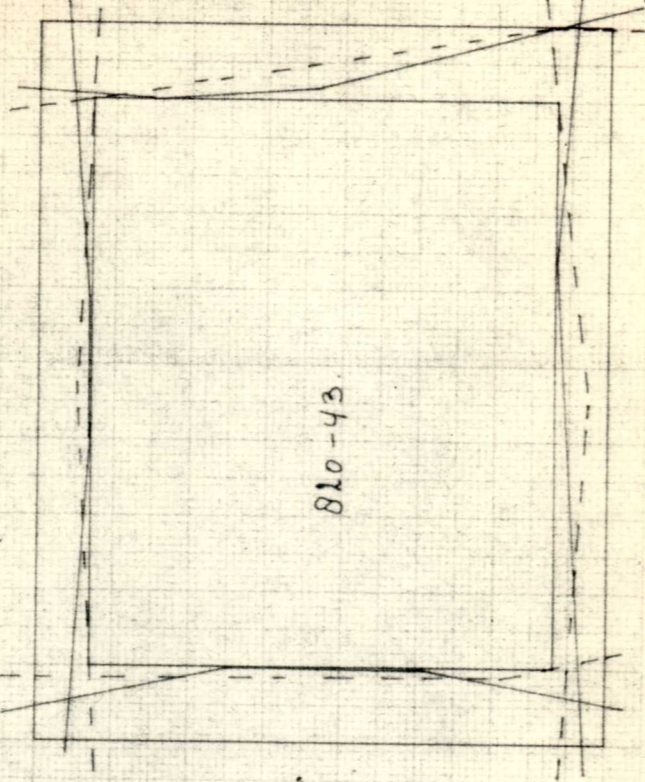


D 14-121 9P
MBO
MBE

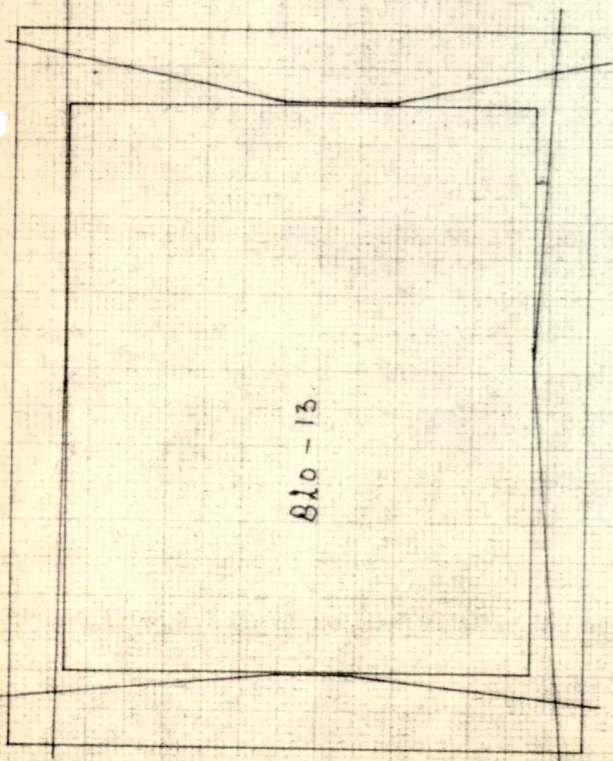
London Con
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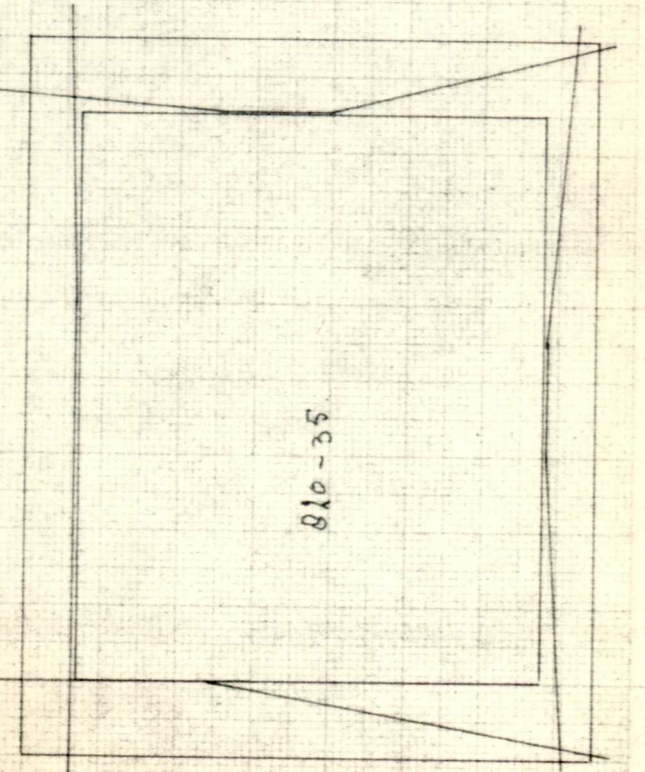
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810-43

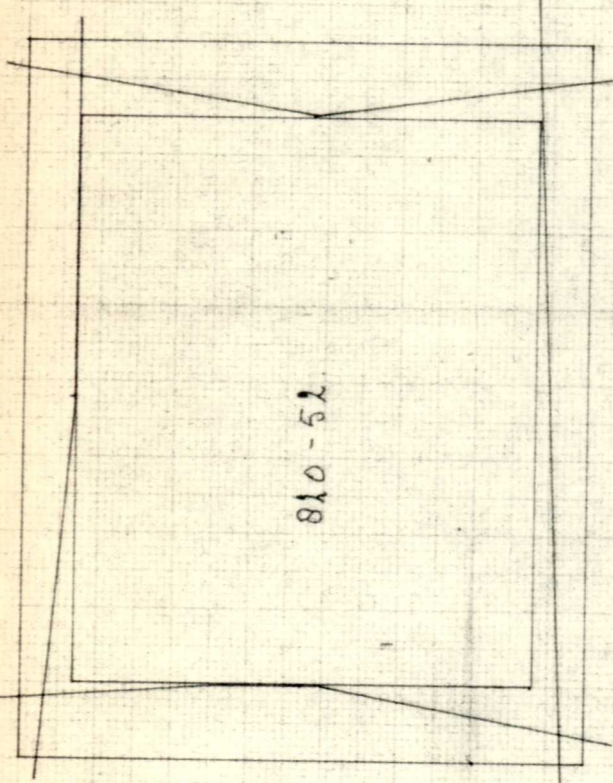


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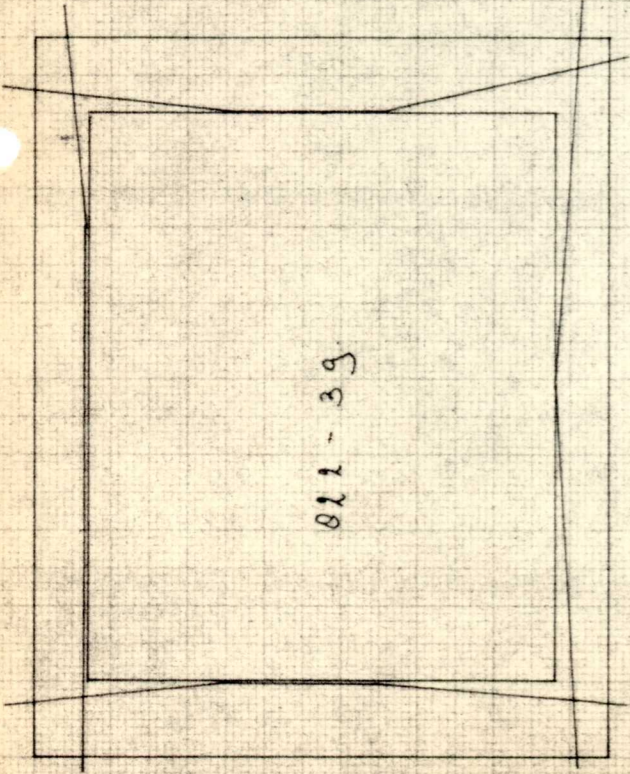


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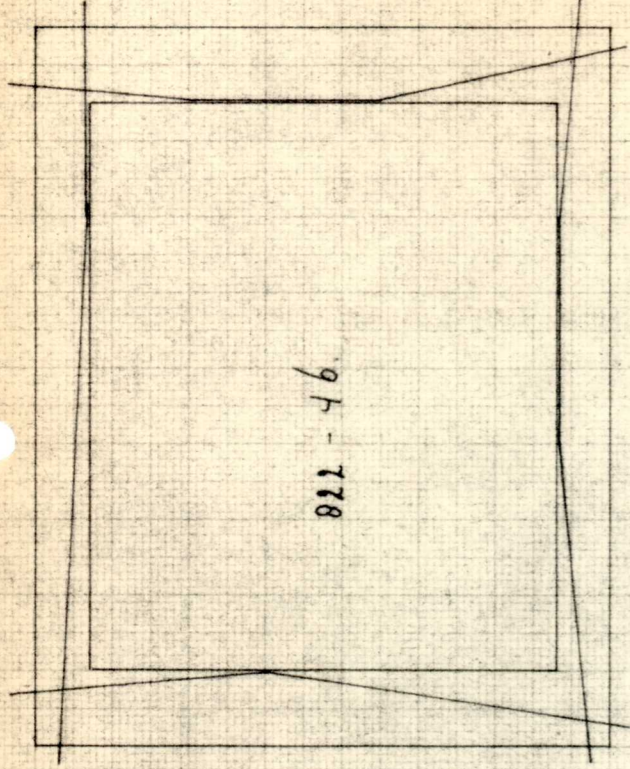
D 14-121 9P
MBO
MBE



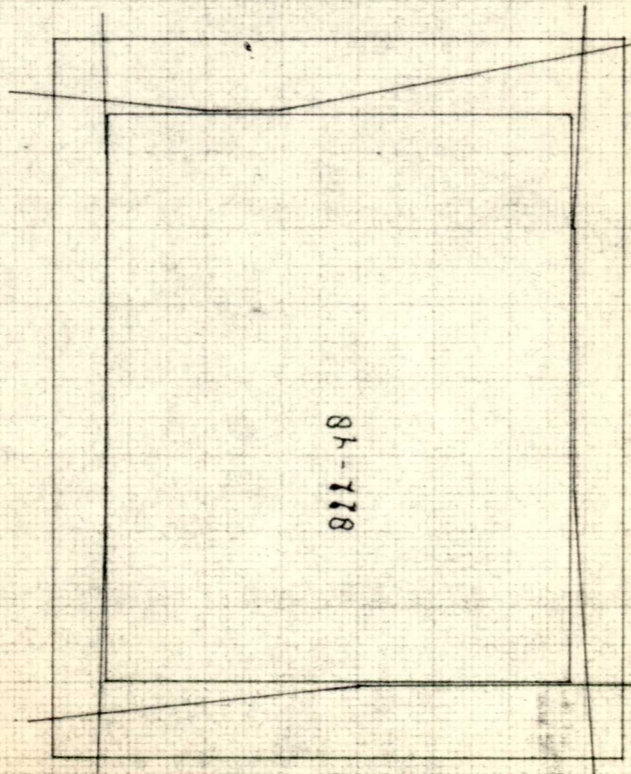
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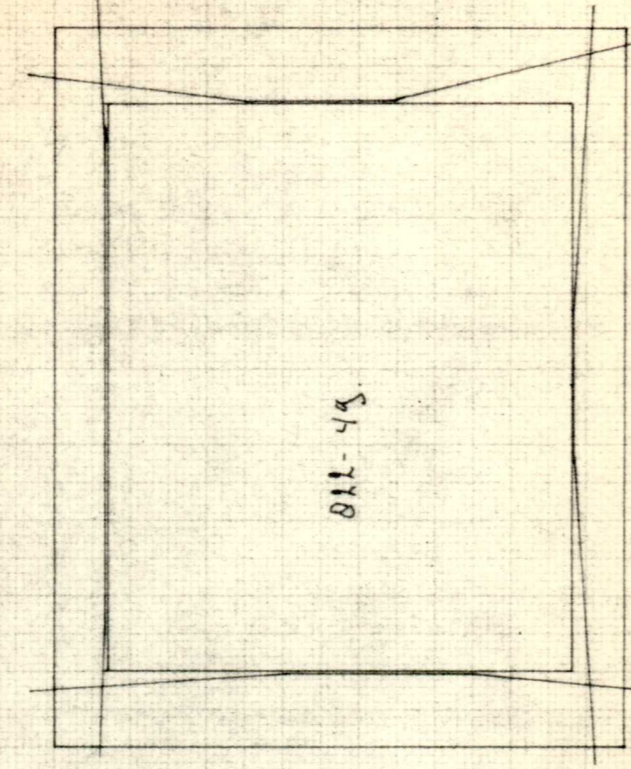
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811-46



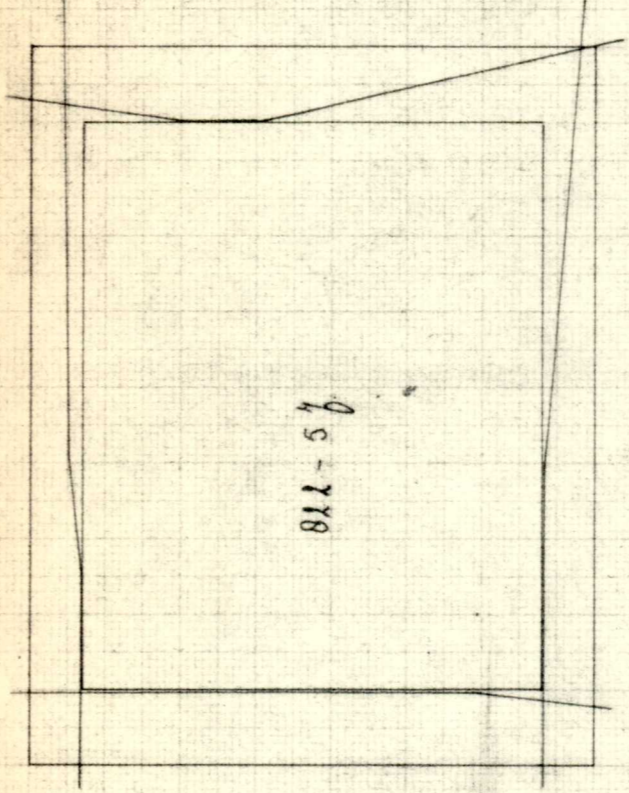
811-48



811-49

D/4-121 SP

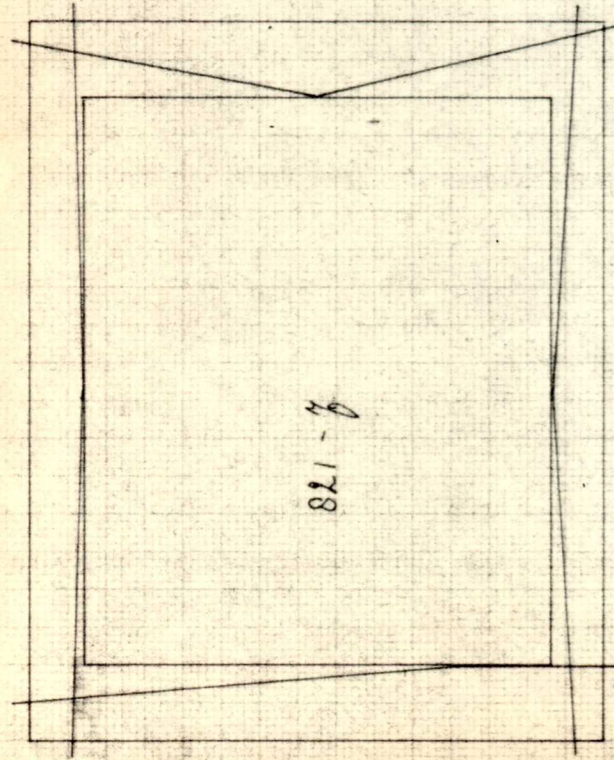
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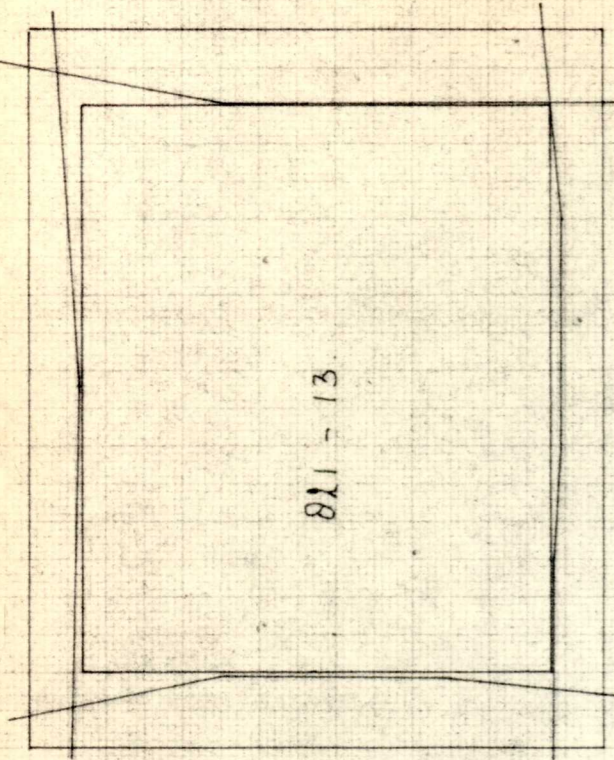
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D/4-121 SP

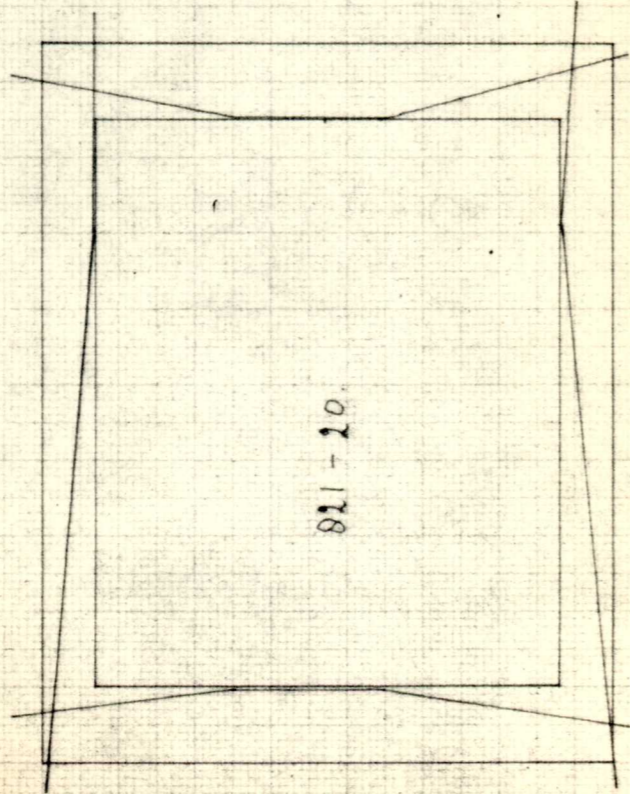
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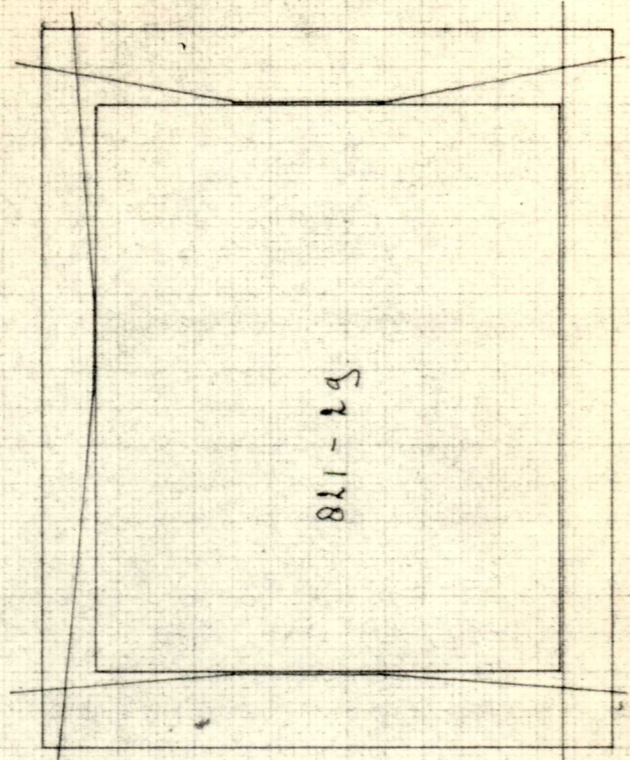
821-8



821-13



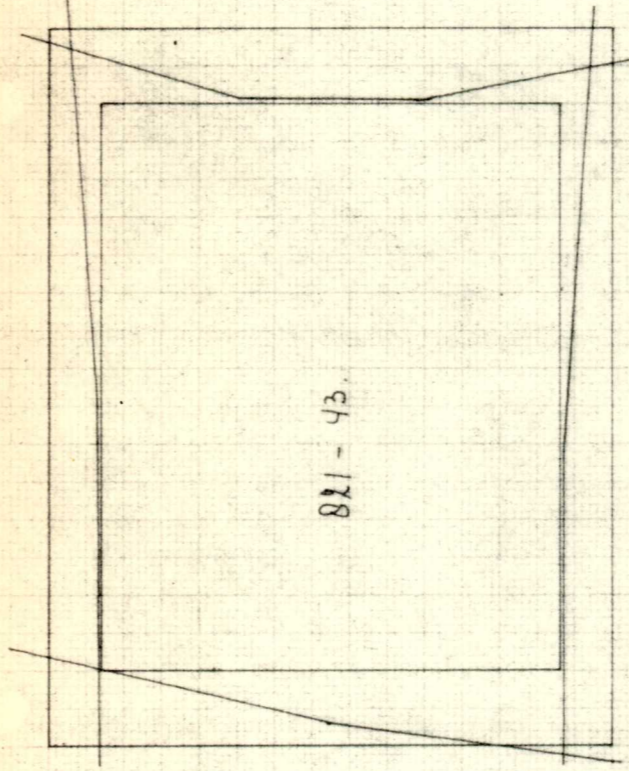
821-20



821-29

D 14-121 GP

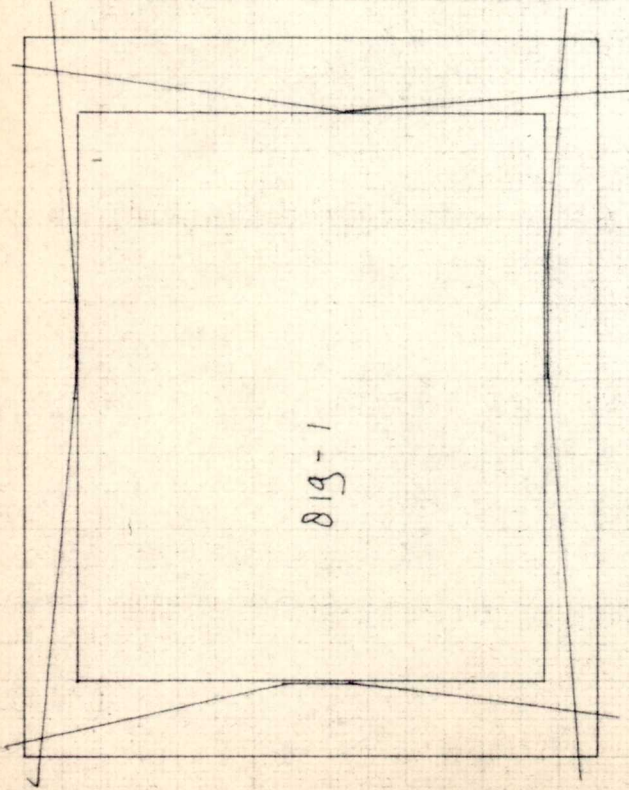
N B O
/m B F I



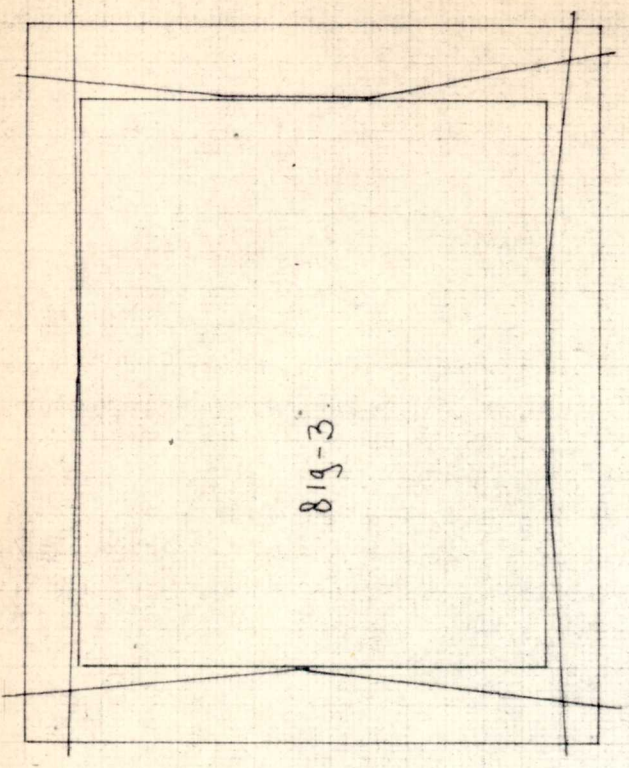
821-43

D 14-121 GP

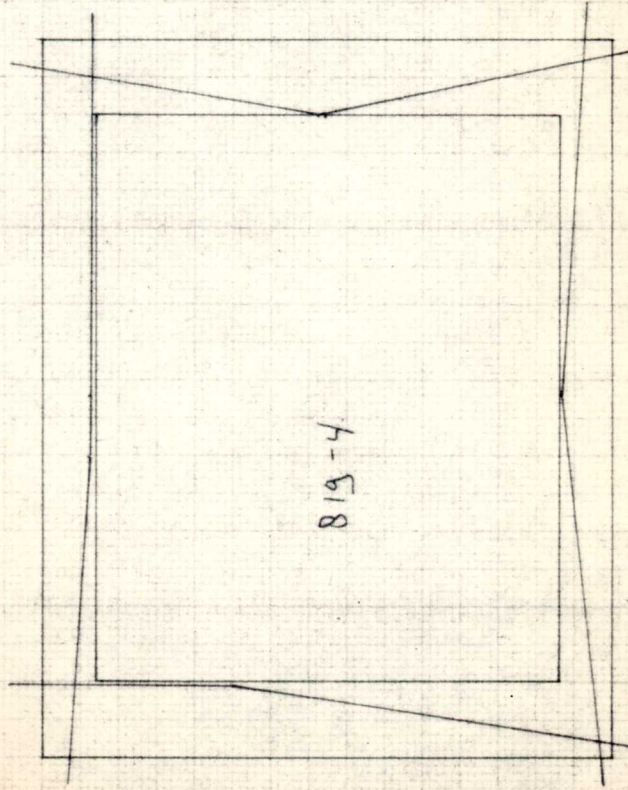
N B O
/m B F I



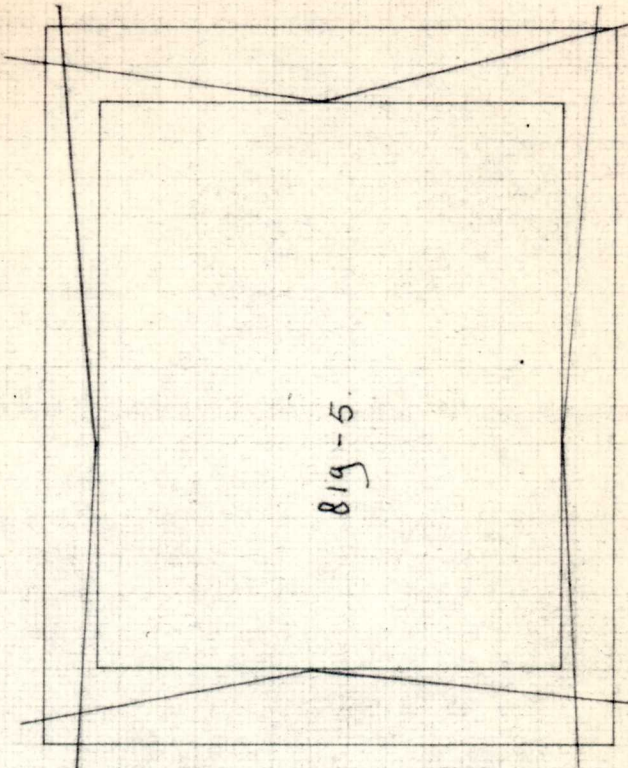
819-1



819-3



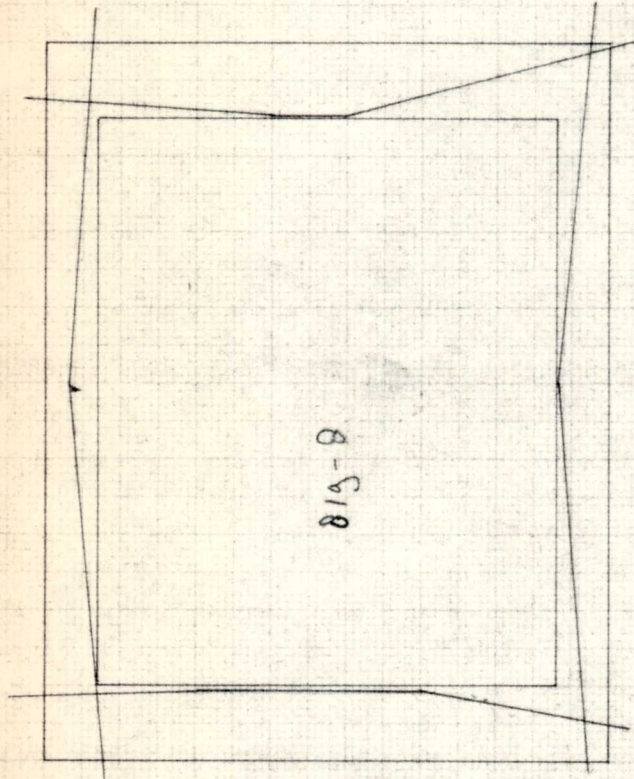
819-4



819-5

D14-1219H

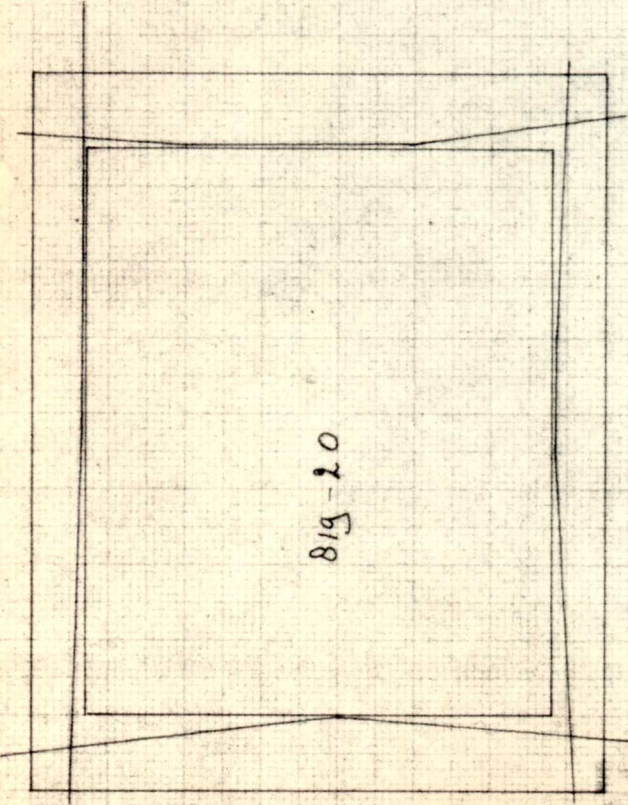
MRO
/m8E



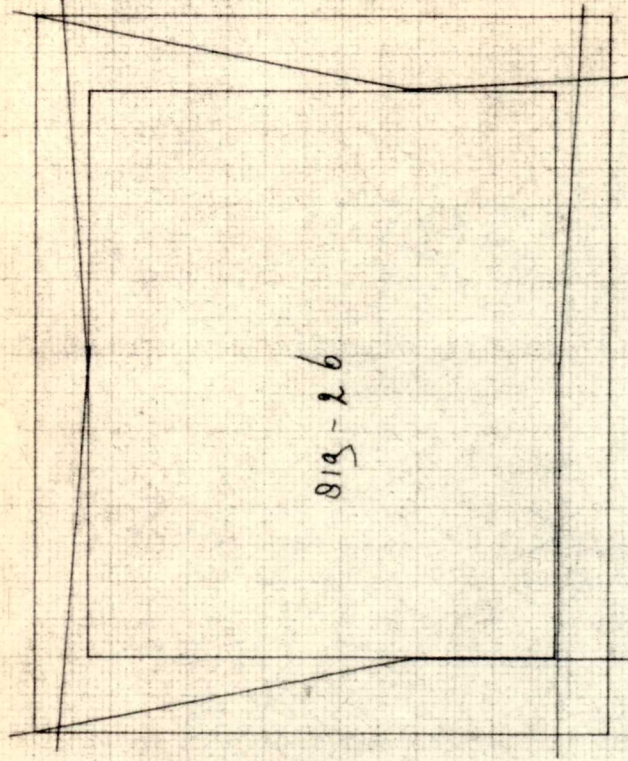
819-8

D14-1219H

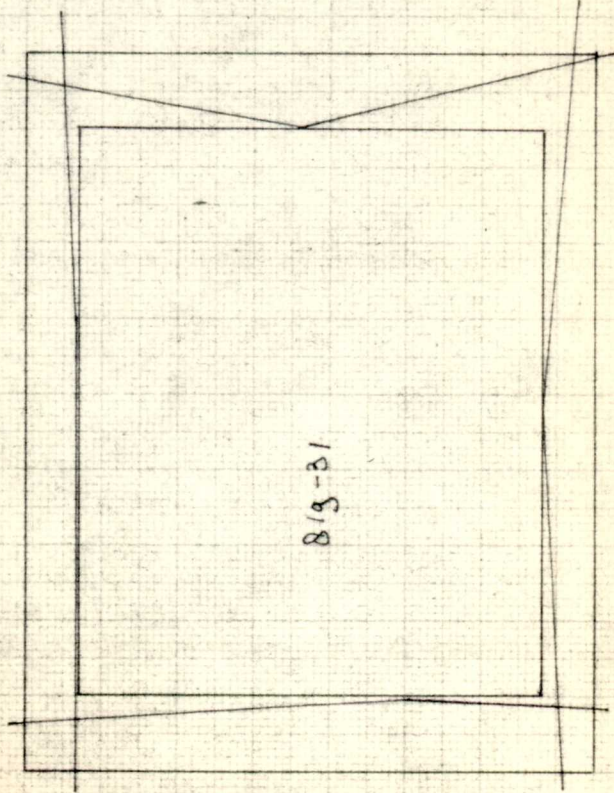
MRO
/m8E



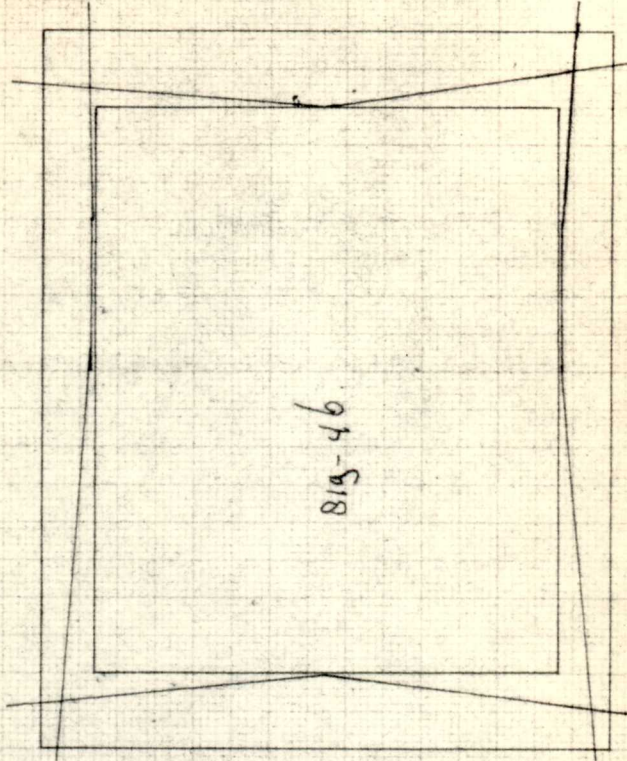
819-20



819-26



819-31

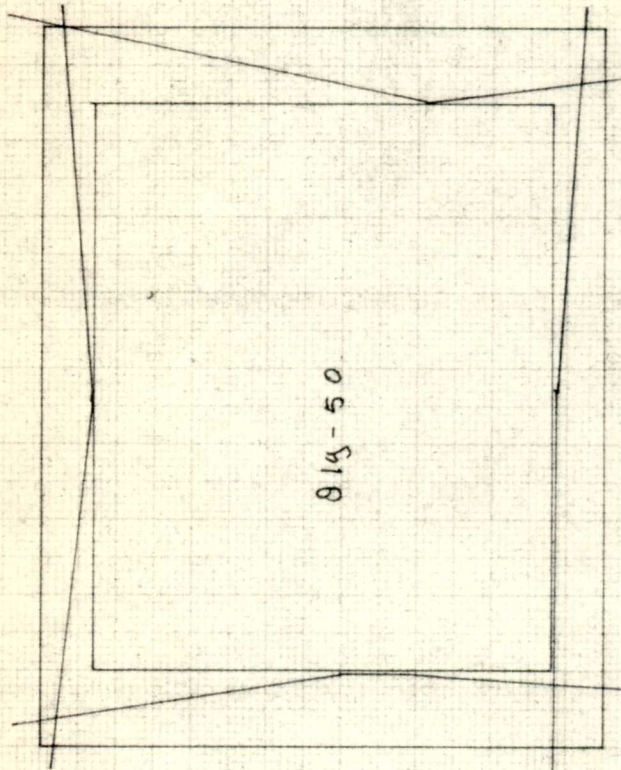


819-46

$Y = 83.6 - 75$
 $X = 93 - 95$

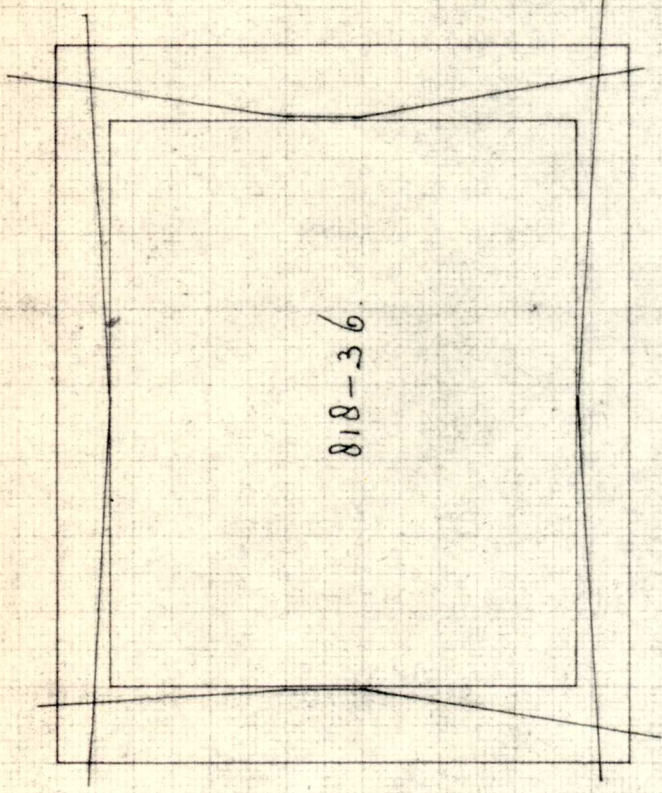
D 14-120 9H

$\frac{L50}{m8E}$



819-50

D 14-120 9H $Y = 83.6 - 75$
 $X = 93 - 95$
 $\frac{L50}{m8E}$



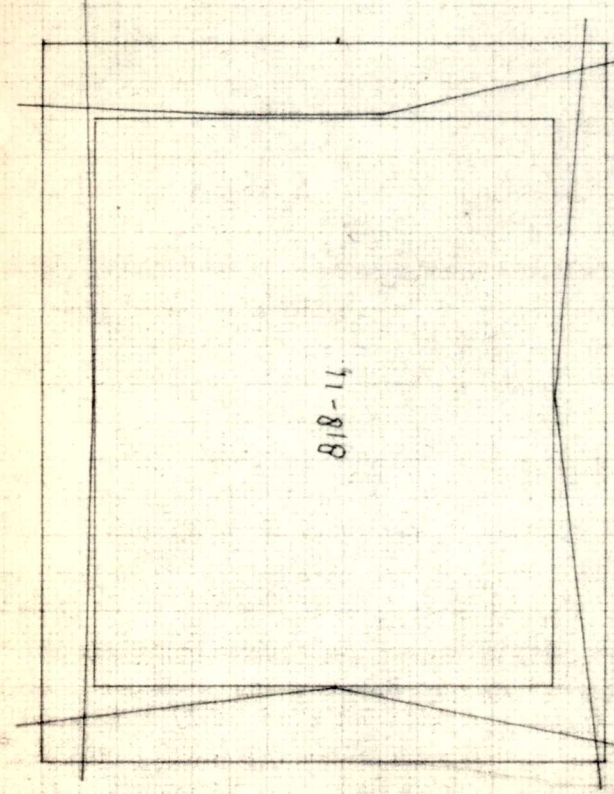
818-36

D14-120 GH

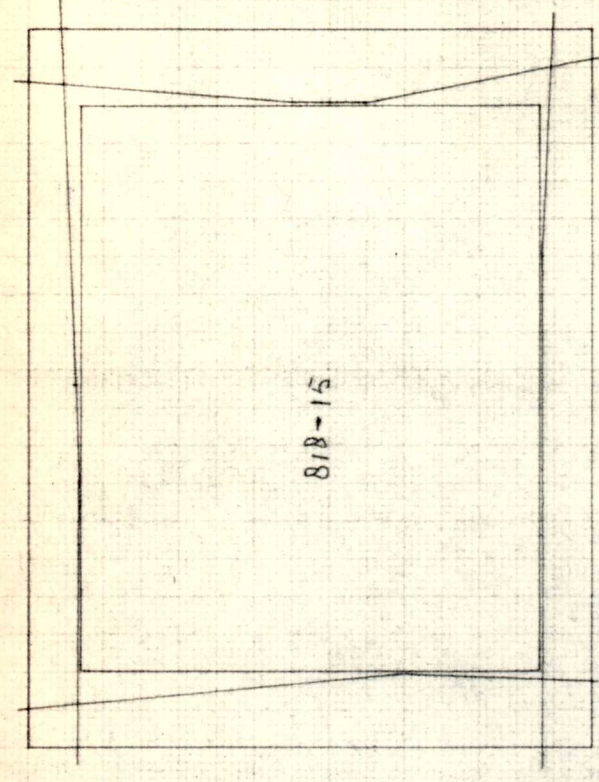
$\frac{L50}{m8E}$

$Y = 73.6 - 75$

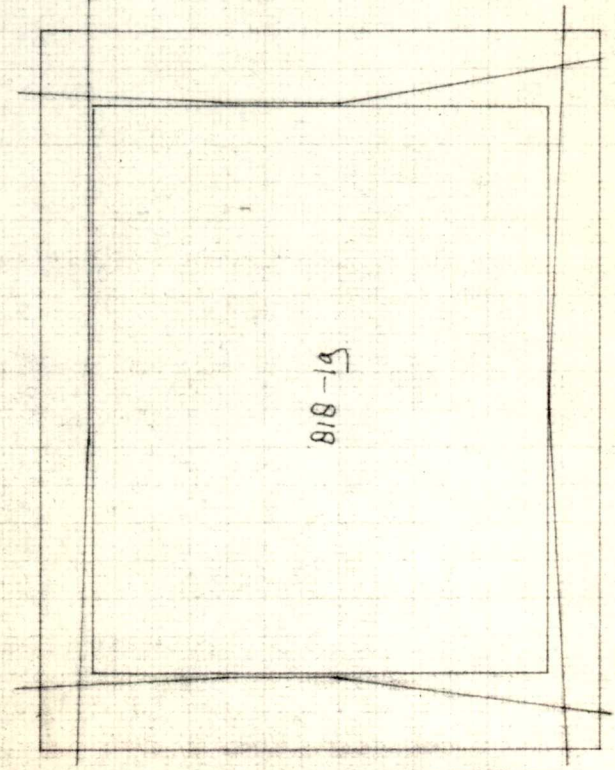
$X = 93 - 95$



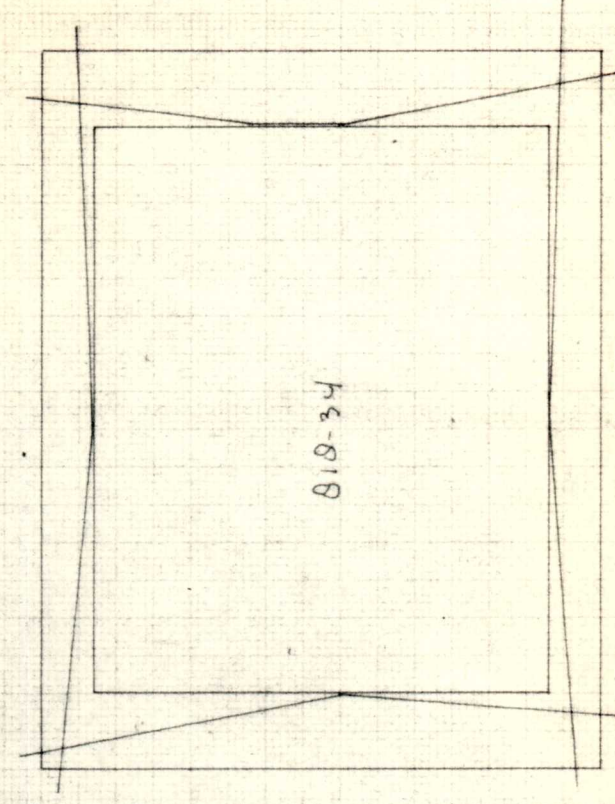
818-11



818-15



818-19



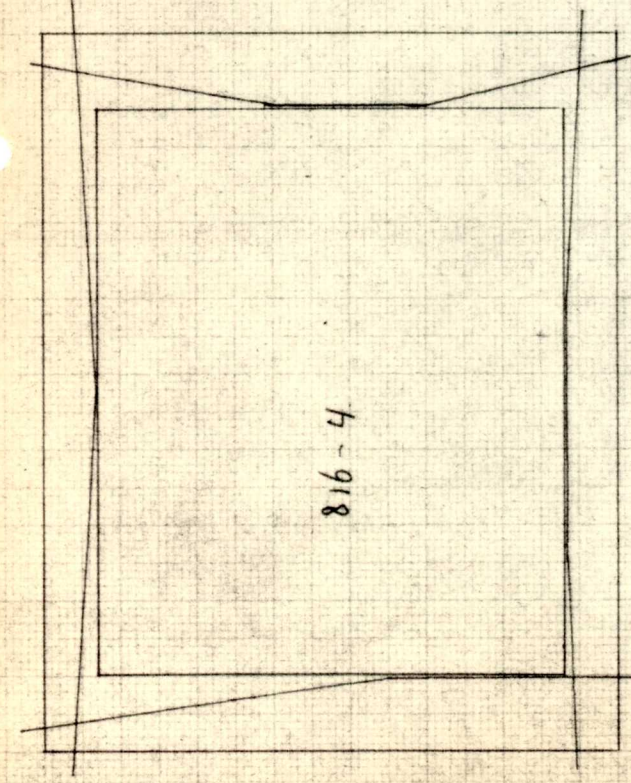
818-34

$Y = 73.6 - 75$

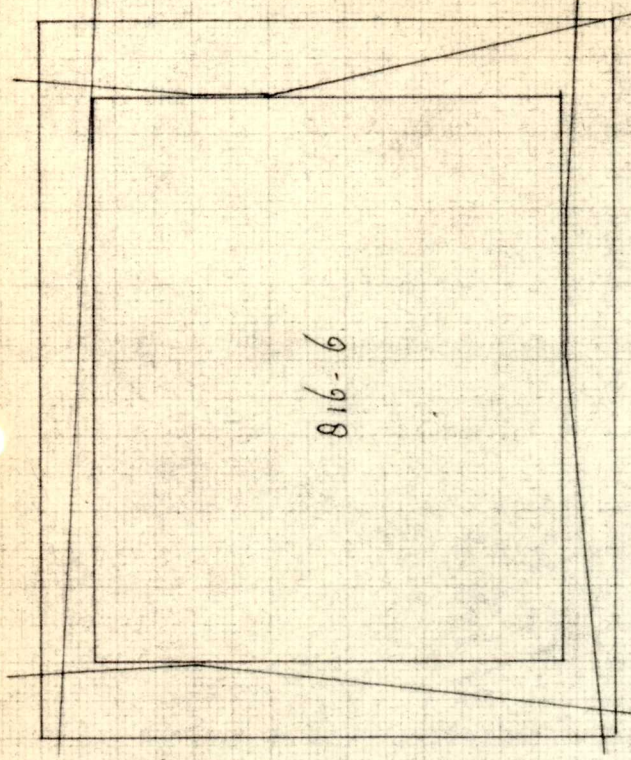
$X = 93 - 95$

D14-120 GH

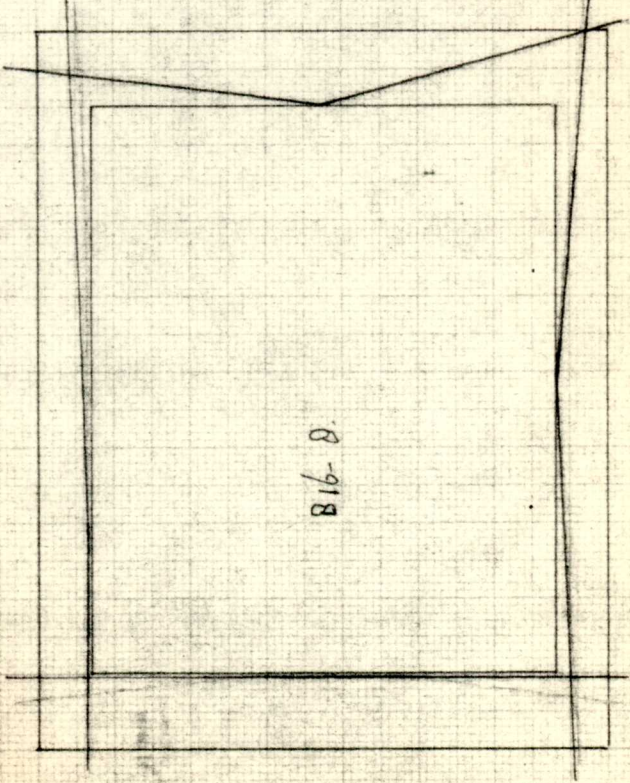
$\frac{L50}{m8E}$



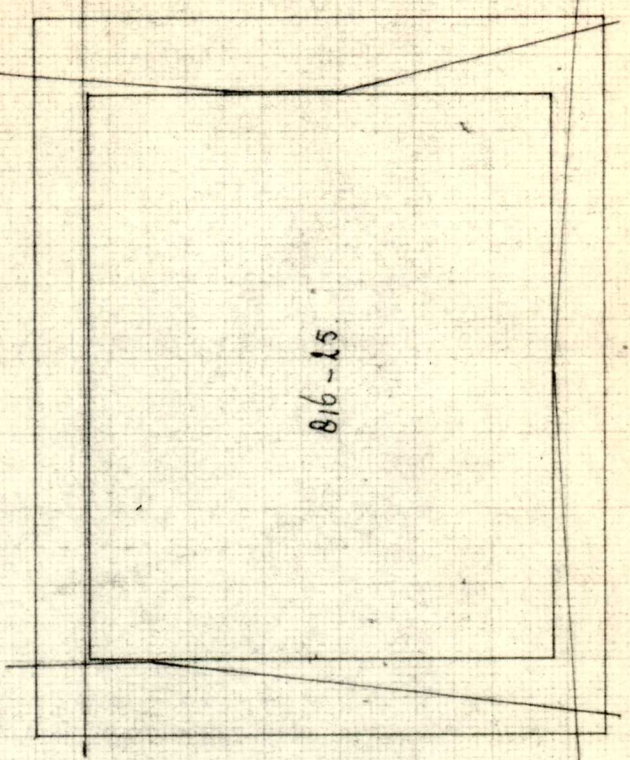
816-4



816-6



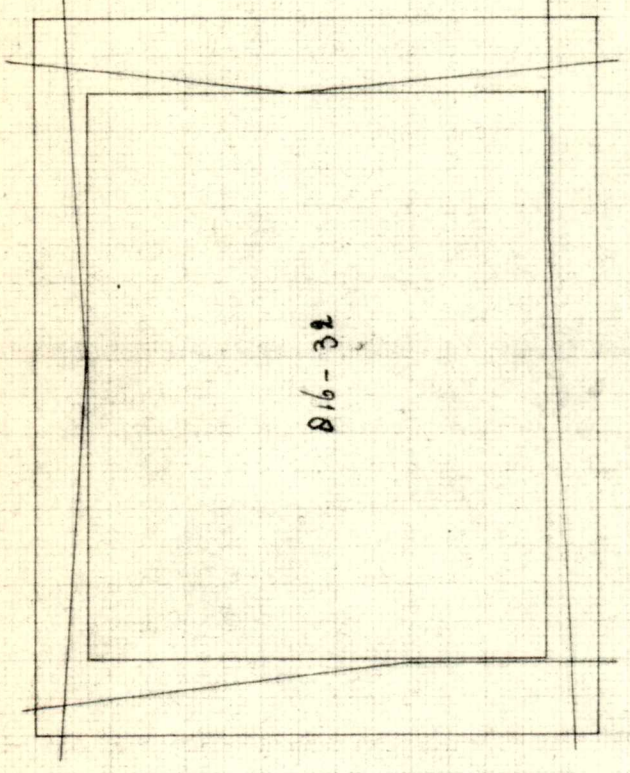
816-8



816-15

$Y = 736 - 75$
 $X = 93 - 95$

D14-120 9H
 $\frac{L50}{m8E}$



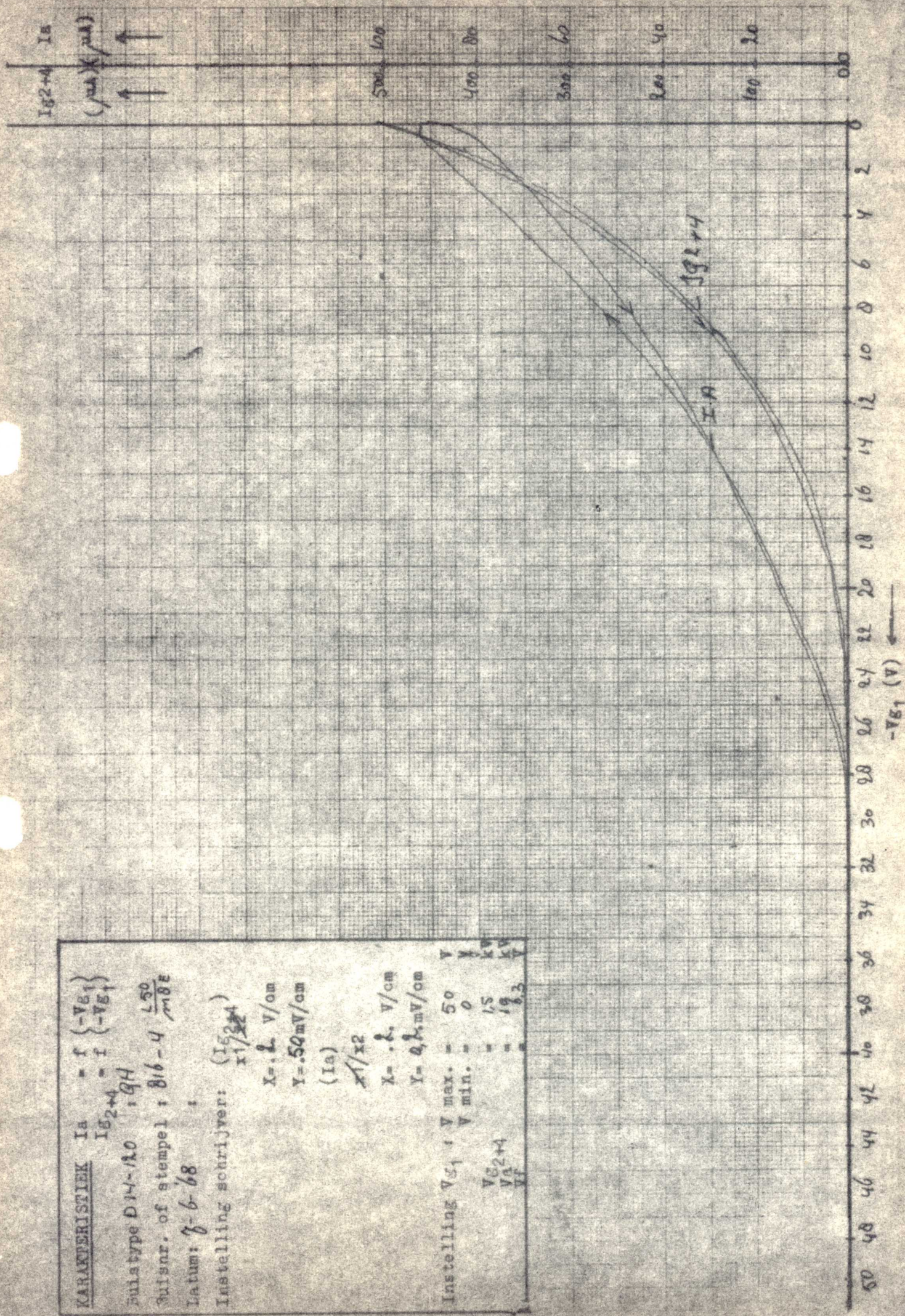
816-32

D14-120 9H

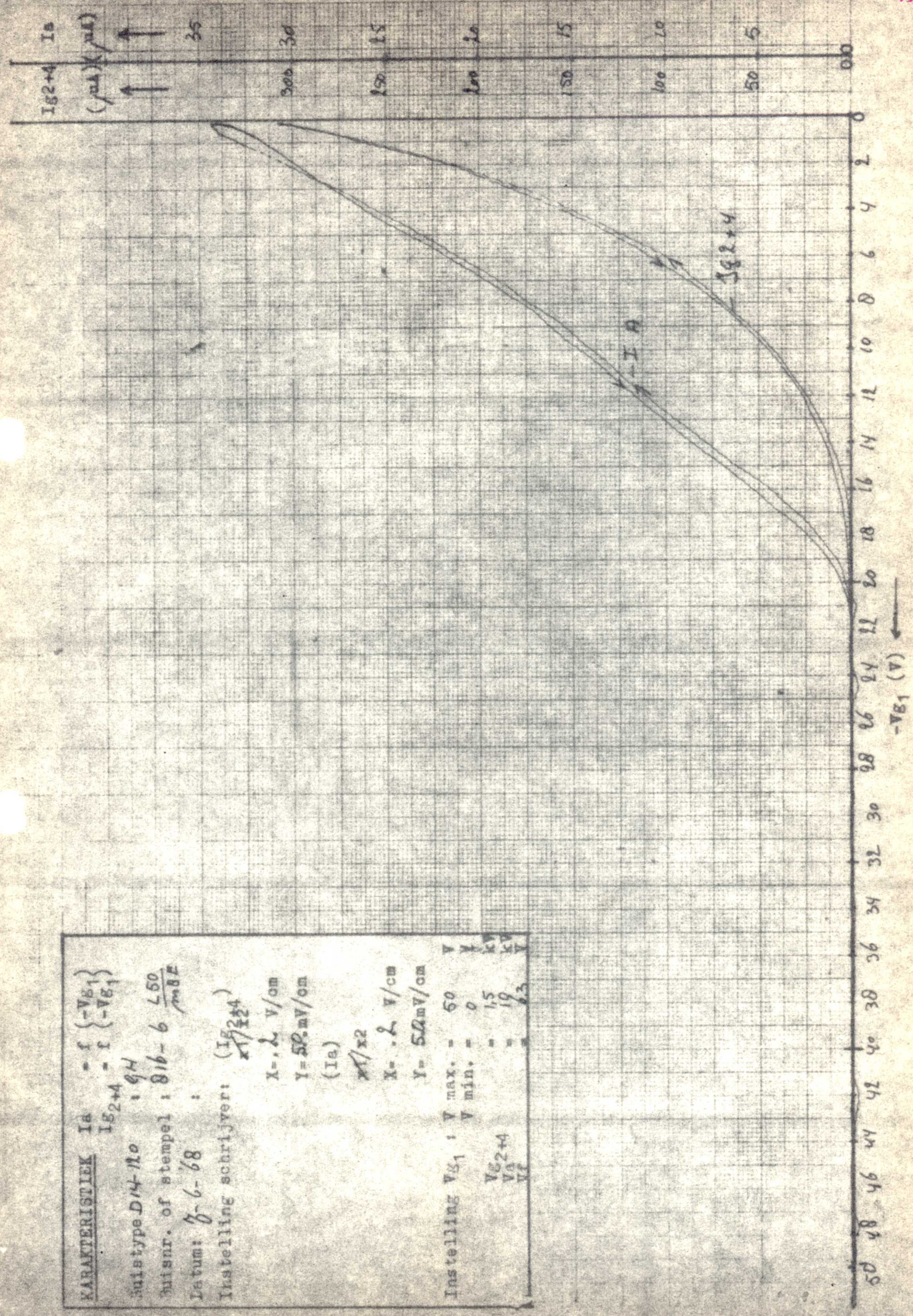
$\frac{L50}{m8E}$

$Y = 736 - 75$
 $X = 93 - 95$

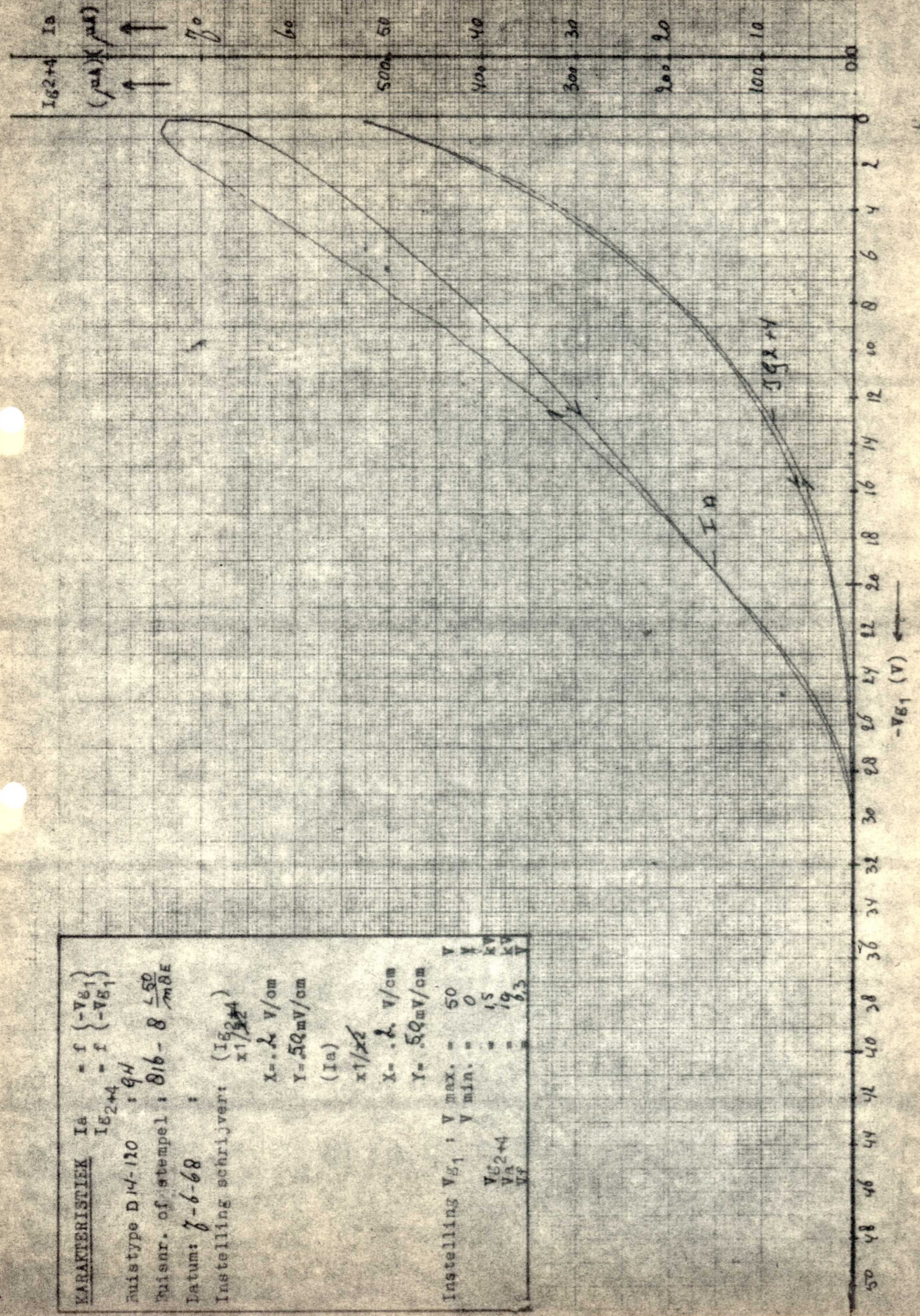
KARAKTERISTIEK I_a - $f(-V_{G1})$
 I_{G2+4} - $f(-V_{G1})$
 Bulstype D14-110 : 9H
 Bulsnr. of stempel : 816-4 $\frac{L50}{m8E}$
 Datum: 8-6-68
 Instelling schrijver: (I_{G2+4})
 $X = .2$ V/cm
 $Y = 50$ mV/cm
 (Ia)
 $X/x2$
 $X = .2$ V/cm
 $Y = 4$ mV/cm
 Instelling V_{G1} : V max. = 50 V
 V min. = 0 V
 V_{G2+4}
 V_A
 V_f



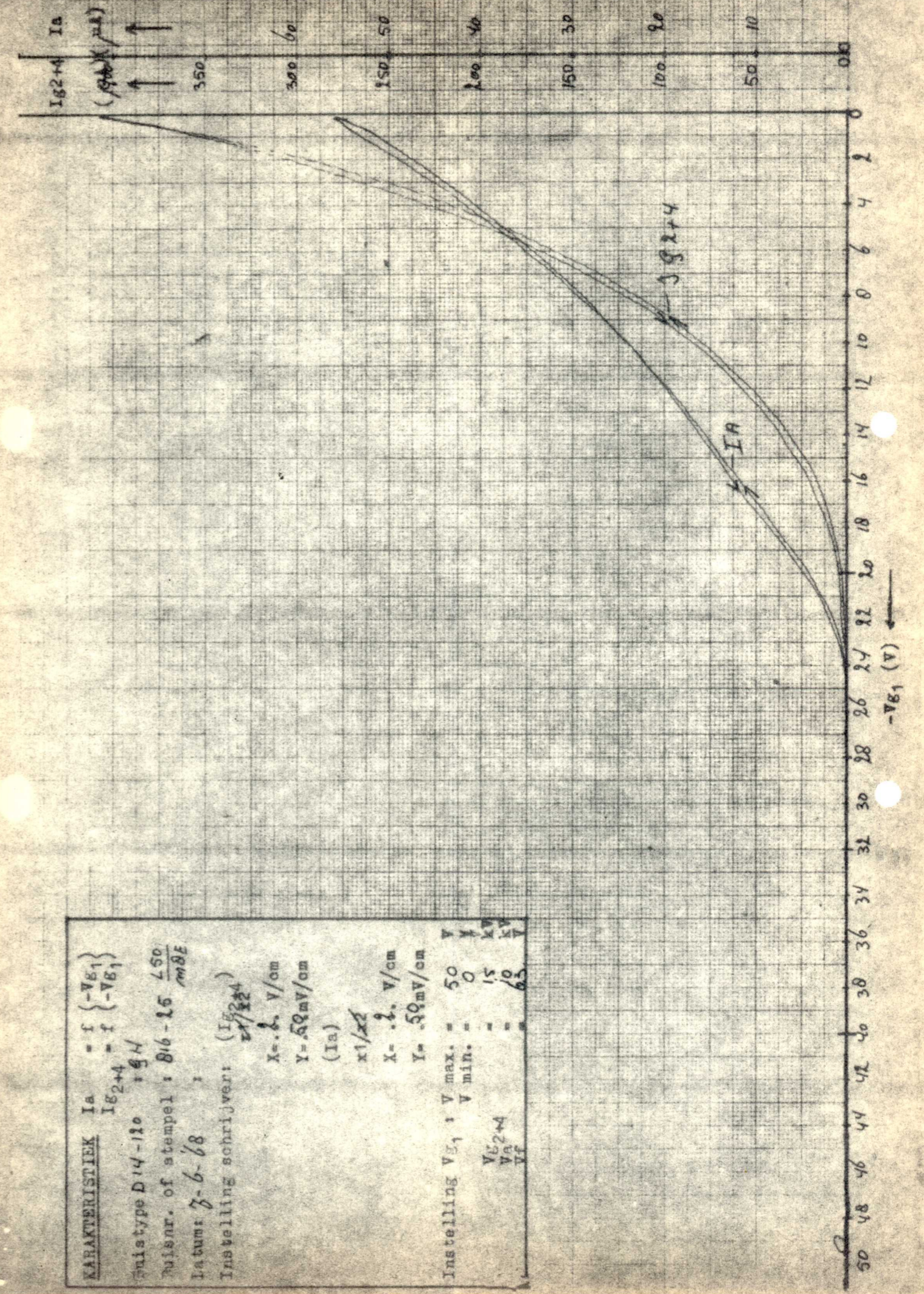
KARAKTERISTIEK I_a - $f(-V_{G1})$
 I_{G2+4} - $f(-V_{G1})$
 Bulstype D14-110 : 9H
 Bulsnr. of stempel : 816-6 $\frac{L50}{m8E}$
 Datum: 8-6-68
 Instelling schrijver: (I_{G2+4})
 $X = .2$ V/cm
 $Y = 50$ mV/cm
 (Ia)
 $X/x2$
 $X = .2$ V/cm
 $Y = 50$ mV/cm
 Instelling V_{G1} : V max. = 50 V
 V min. = 0 V
 V_{G2+4}
 V_A
 V_f



KARAKTERISTIEK $I_a = f(-V_{G1})$
 $I_{E2+4} = f(-V_{E1})$
 Buistype D14-110 : 9H
 Buisnr. of stempel : 816-8 $\frac{50}{m8E}$
 Datum: 7-6-68
 Instelling schrijver: (I_{E2+4})
 $x1/2$
 $X = .2$ V/cm
 $Y = 50$ mV/cm
 (Ia)
 $x1/2$
 $X = .2$ V/cm
 $Y = 50$ mV/cm
 Instelling V_{G1} : V max. = 50 V
 V min. = 0 V
 V_{E2+4} : V max. = 15 kV
 V min. = 0 V



KARAKTERISTIEK $I_a = f(-V_{G1})$
 $I_{E2+4} = f(-V_{E1})$
 Buistype D14-110 : 9H
 Buisnr. of stempel : 816-15 $\frac{50}{m8E}$
 Datum: 7-6-68
 Instelling schrijver: (I_{E2+4})
 $x1/2$
 $X = .2$ V/cm
 $Y = 50$ mV/cm
 (Ia)
 $x1/2$
 $X = .2$ V/cm
 $Y = 50$ mV/cm
 Instelling V_{G1} : V max. = 50 V
 V min. = 0 V
 V_{E2+4} : V max. = 15 kV
 V min. = 0 V



KARAKTERISTIEK

Buis type D14-110
 Afsnr. of stempel: 816-32 L50
 Datum: 7-6-68

Instelling schrijver: (I_{g2+4})

X = 2 V/cm

Y = 50 mV/cm

(I_a)

X/x2 = 2 V/cm

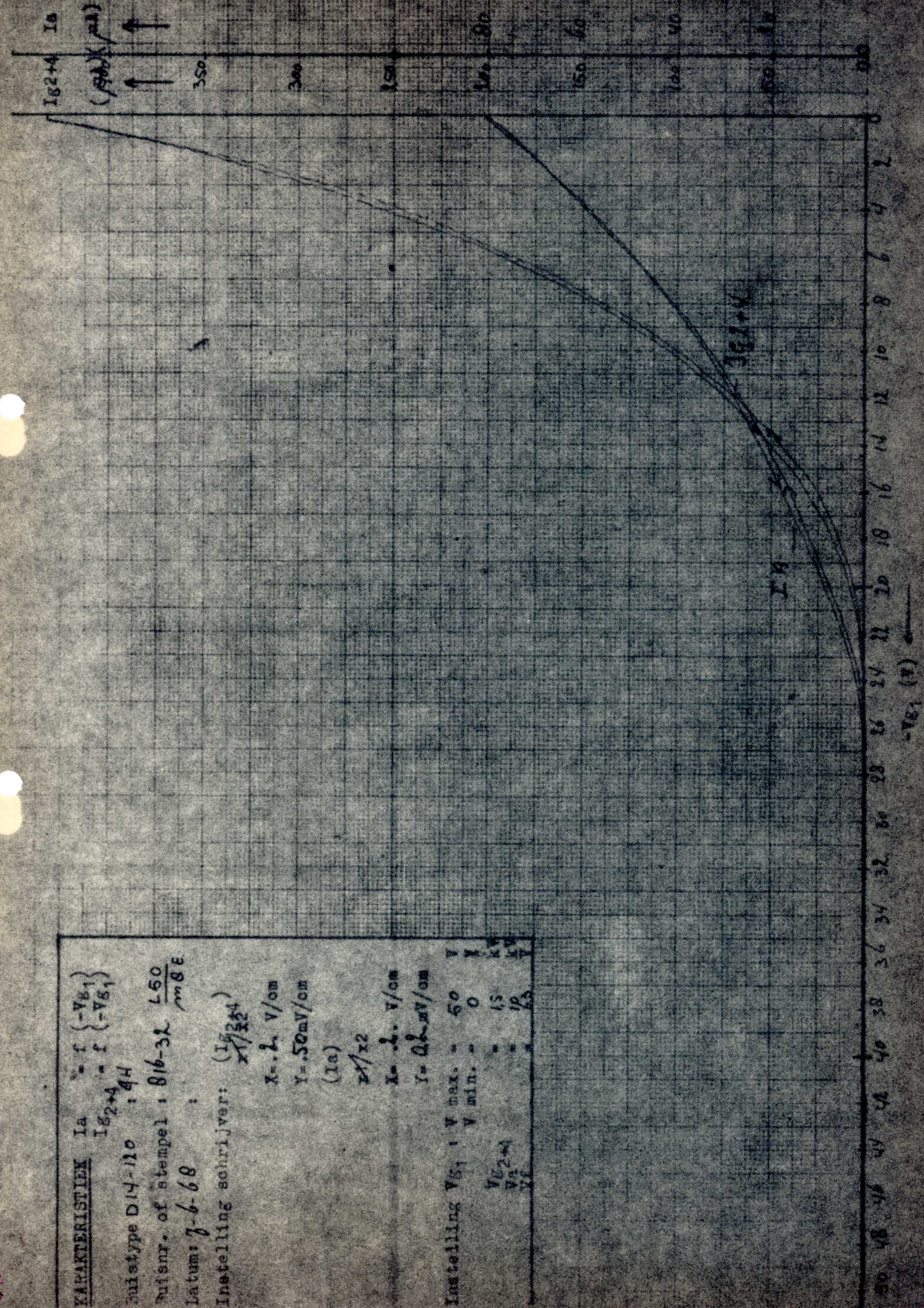
Y = 0.2 mV/cm

Instelling V_{B1}: V max. = 50 V

V min. = 0 V

V_{B2+4}: V = 15 kV

V_f: V = 10 kV



KARAKTERISTIEK

Buis type D14-120
 Afsnr. of stempel: 818-11 L50
 Datum: 12-6-68

Instelling schrijver: (I_{g2+4})

X = 2 V/cm

Y = 50 mV/cm

(I_a)

X/x2 = 2 V/cm

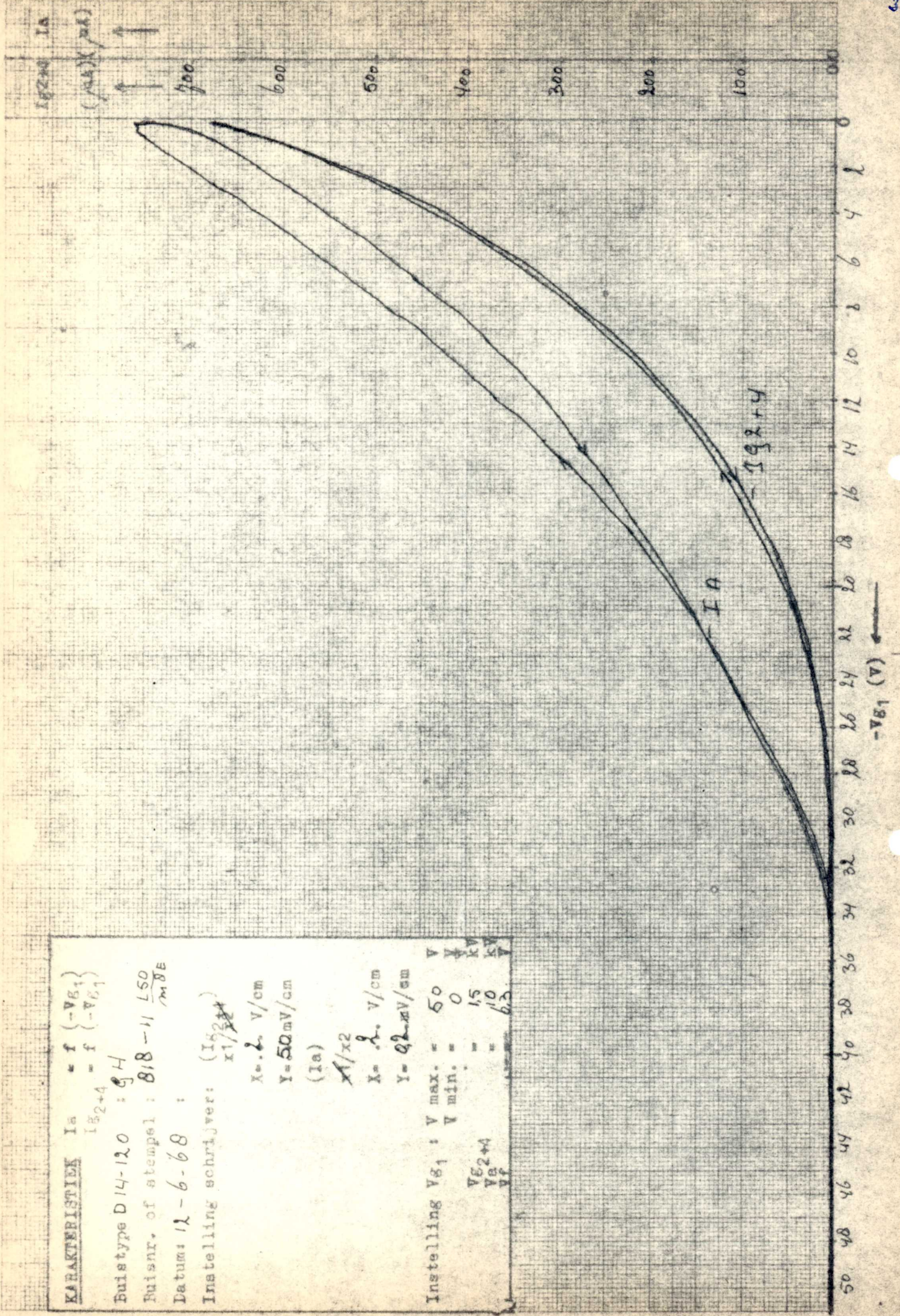
Y = 0.2 mV/cm

Instelling V_{B1}: V max. = 50 V

V min. = 0 V

V_{B2+4}: V = 15 kV

V_f: V = 10 kV



KARAKTERISTIEK

$I_a = I(-V_{E1})$
 $I_{E2+4} = I(-V_{E1})$

Buistype D 14 120 : 97

Buisnr. of stempel : 818-15 $\frac{L50}{m8E}$

Datum: 12.6.68

Instelling schrijver: (I_{E2+4})
 $\frac{1}{1/32}$

$X = 2$ V/cm

$Y = 50$ mV/cm

(I_a)

$\frac{1}{1/32}$

$X = 2$ V/cm

$Y = 20$ mV/cm

Instelling V_{E1} : V max. = 50

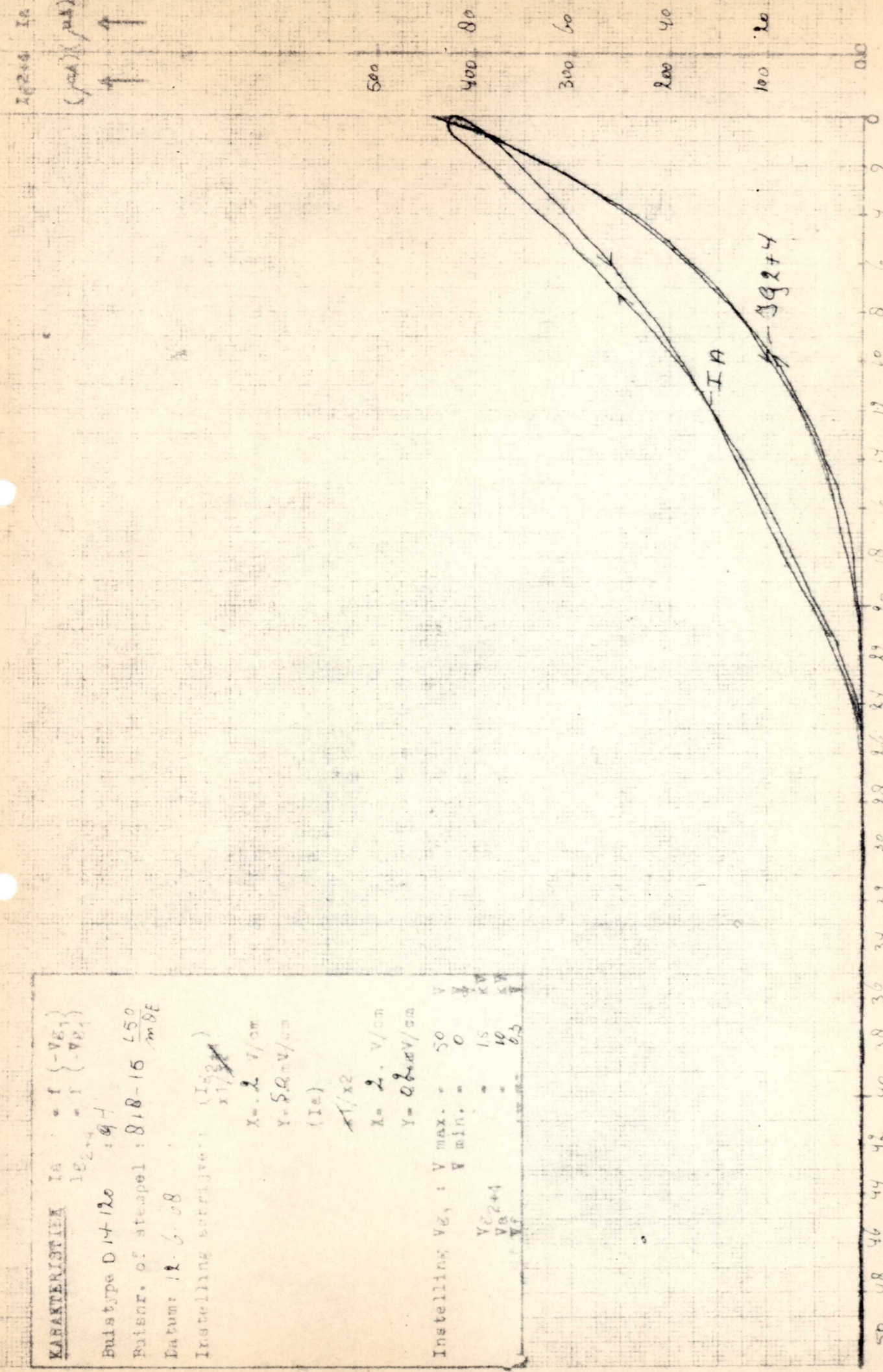
V min. = 0

V_{E2+4} : V max. = 15

V min. = 10

V_f : V max. = 6.2

V min. = 0



KARAKTERISTIEK

$I_a = I(-V_{E1})$
 $I_{E2+4} = I(-V_{E1})$

Buistype D 14 120 : 97

Buisnr. of stempel : 818-19 $\frac{L50}{m8E}$

Datum: 12.6.68

Instelling schrijver: (I_{E2+4})
 $\frac{1}{1/32}$

$X = 2$ V/cm

$Y = 50$ mV/cm

(I_a)

$\frac{1}{1/32}$

$X = 2$ V/cm

$Y = 20$ mV/cm

Instelling V_{E1} : V max. = 50

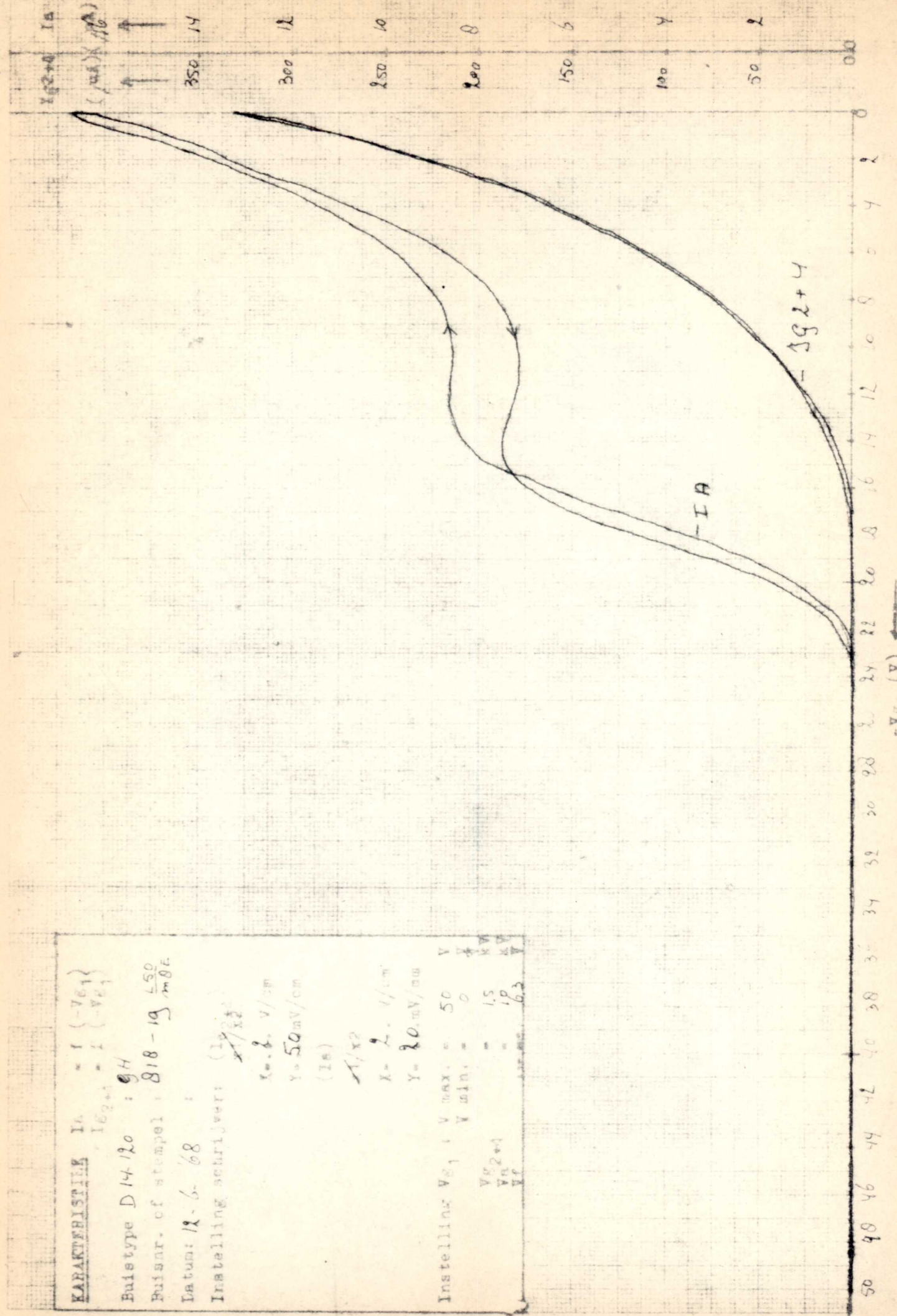
V min. = 0

V_{E2+4} : V max. = 15

V min. = 10

V_f : V max. = 6.2

V min. = 0



KARAKTERISTIEK

$I_a = f(-V_{G1})$
 $I_{b2+4} = f(V_{G1})$

Buistype D14-120
 Buismr. of stempel: 818-34 L50 m8E

Datum: 12-6-68

Instelling schrijver: (19/24)

X = 2 V/cm
 Y = 50 mV/cm

(I_a)

X₁/X₂

X = 2 V/cm

Y = 0.2 mV/cm

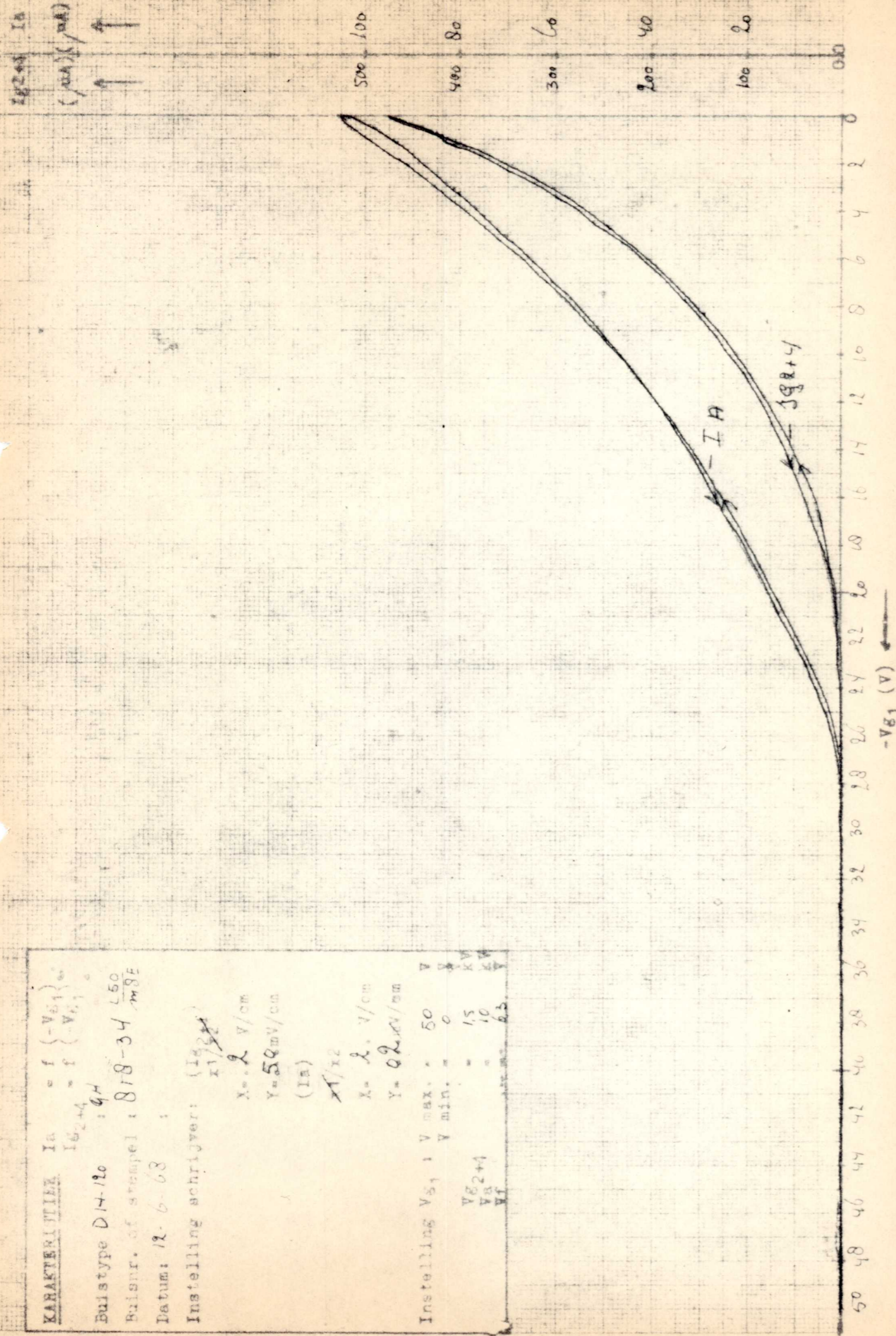
Instelling V_{G1} : V max. = 50

V min. = 0

V_{B2+4} : V = 15

V_A : V = 10

V_F : V = 6.5



KARAKTERISTIEK

$I_a = f(-V_{G1})$
 $I_{b2+4} = f(V_{G1})$

Buistype D14-120
 Buismr. of stempel: 818-36 L50 m8E

Datum: 12-6-68

Instelling schrijver: (19/24)

X = 2 V/cm
 Y = 50 mV/cm

(I_a)

X₁/X₂

X = 2 V/cm

Y = 0.2 mV/cm

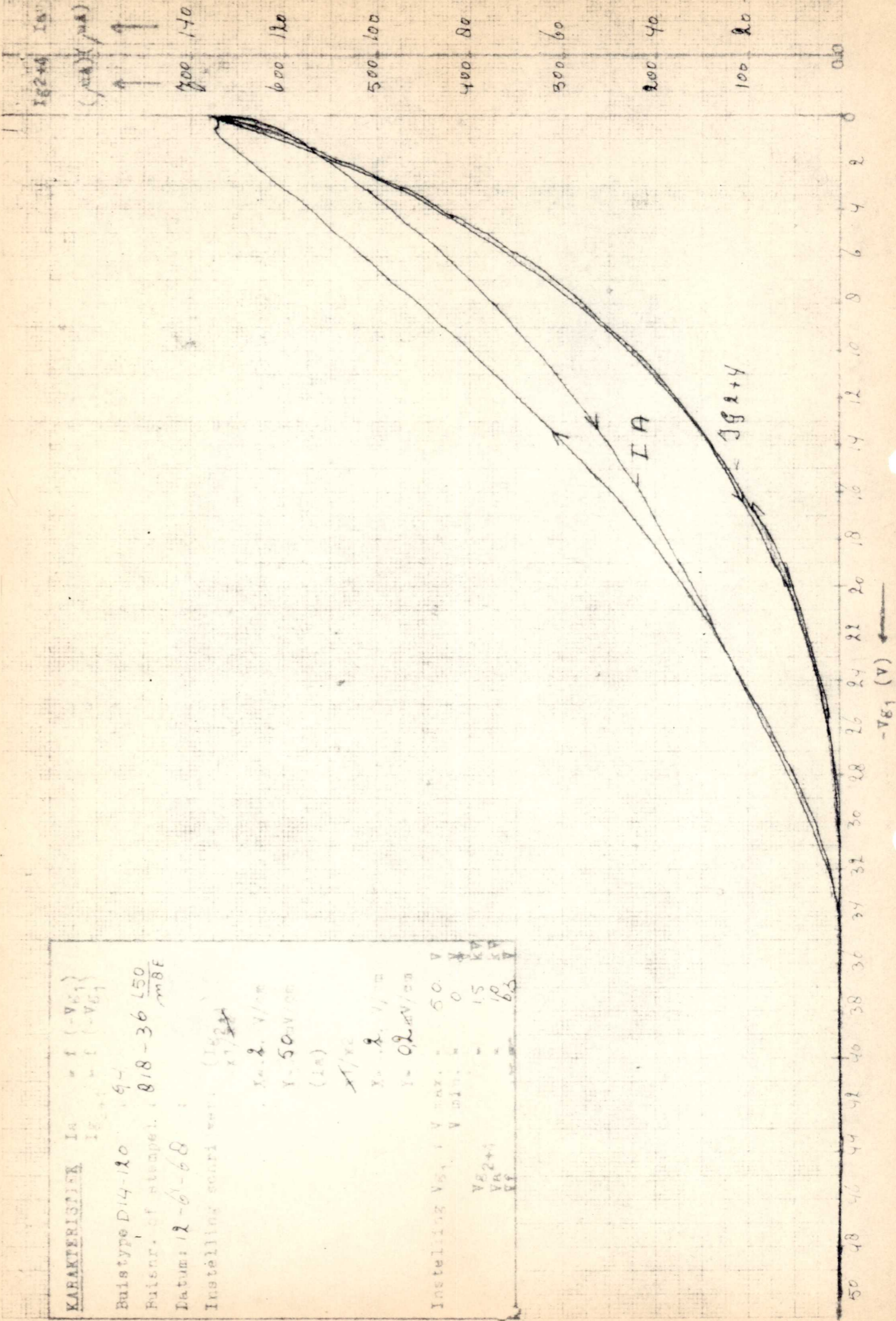
Instelling V_{G1} : V max. = 50

V min. = 0

V_{B2+4} : V = 15

V_A : V = 10

V_F : V = 6.5



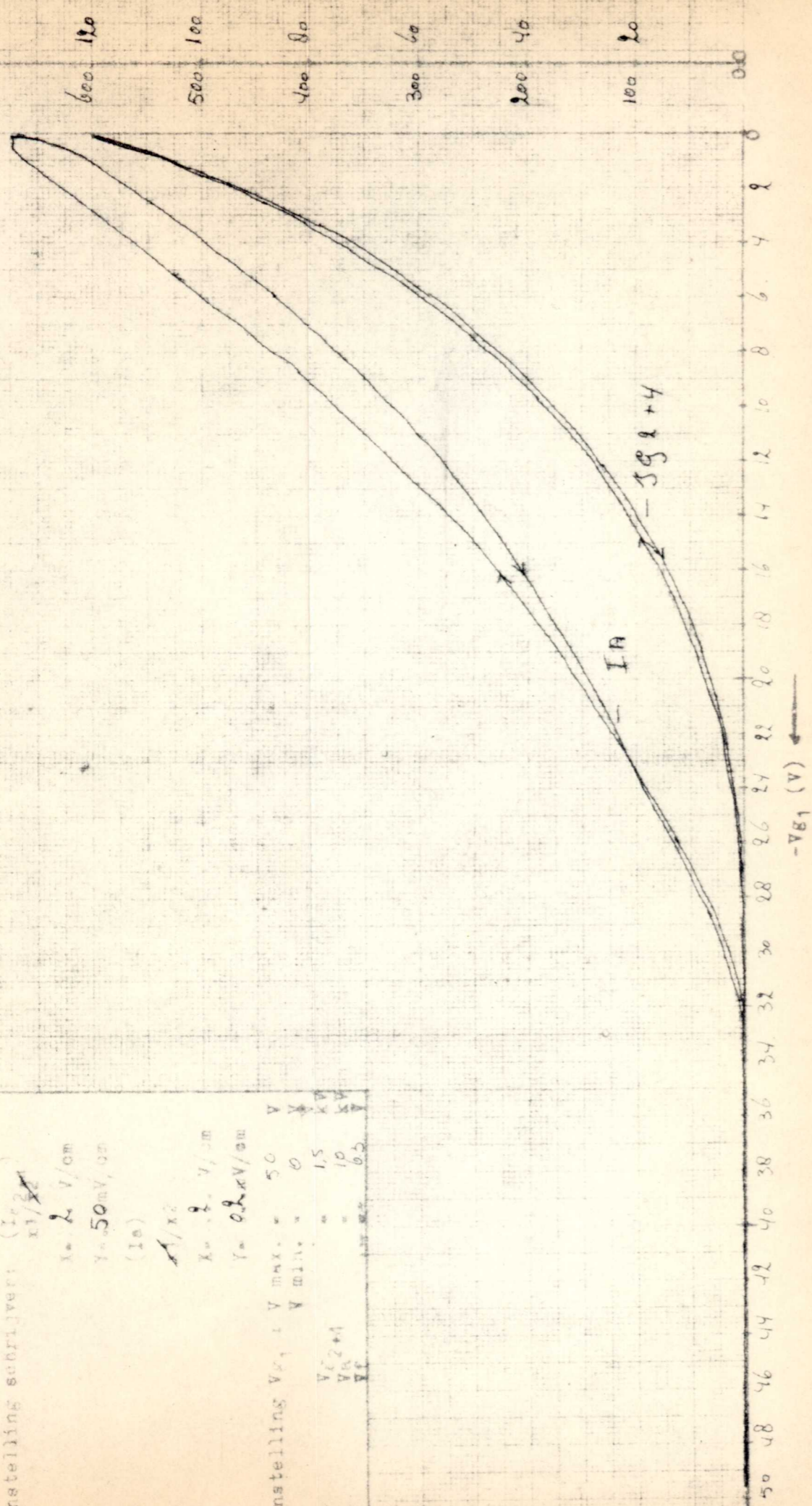
KARAKTERISTIK

Einsteiltype D14-120 19H
 Pulswert, of steilheit: 819-20 50
 Datum: 18-6-68 mBE

Instellings schriftver: (I_{g2})

X = 2 V/cm
 Y = 50 mA/cm
 (I_g)
 X = 2 V/cm
 Y = 0.2 mA/cm

Instellings V_{g1}: V max. = 50 V
 V min. = 0 V
 V_{g2+4} = 1.5 kV
 V_{g3} = 10 kV
 V_{g4} = 0.5 kV



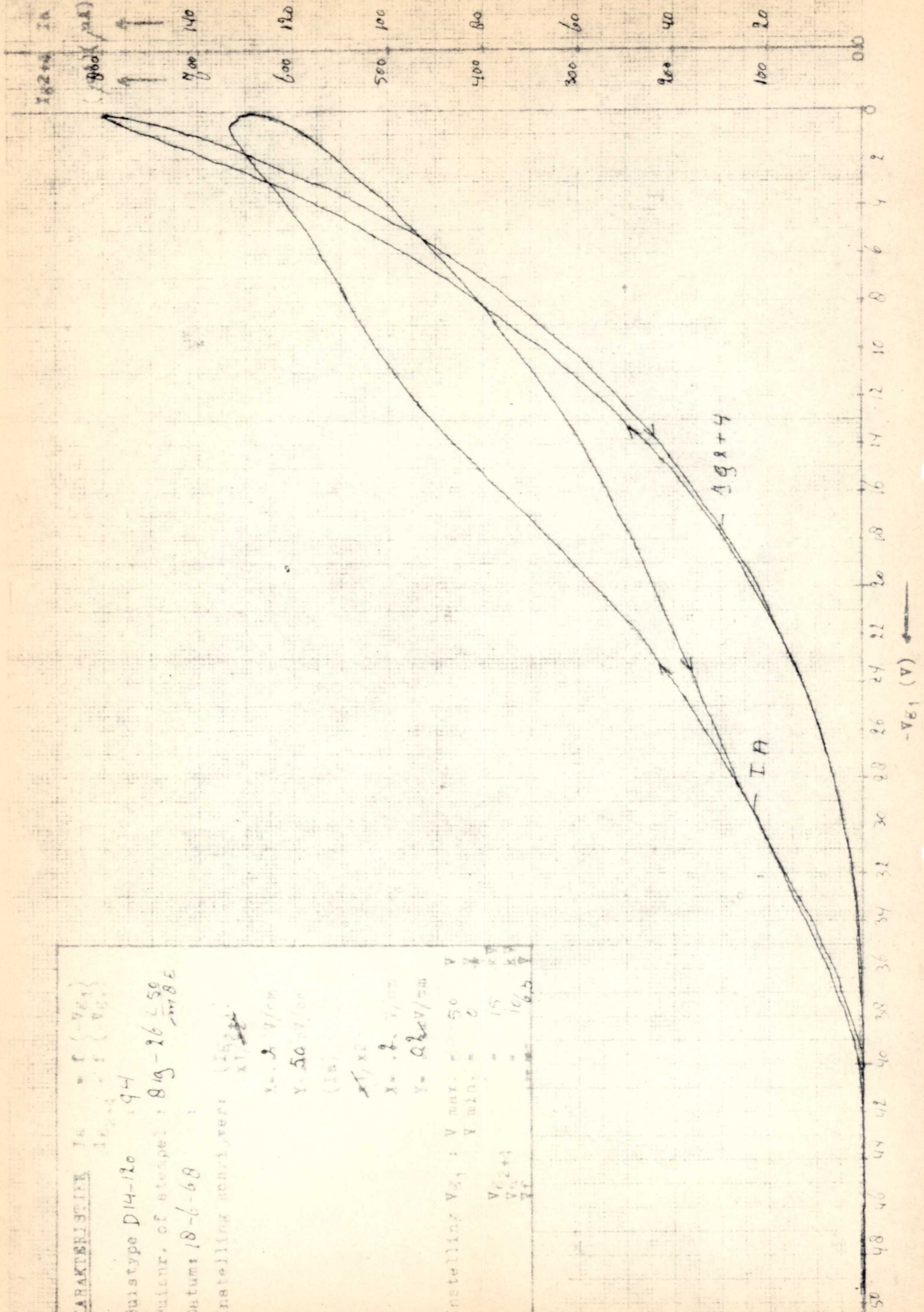
KARAKTERISTIK

Einsteiltype D14-120 19H
 Pulswert, of steilheit: 819-20 50
 Datum: 18-6-68 mBE

Instellings schriftver: (I_{g2})

X = 2 V/cm
 Y = 50 mA/cm
 (I_g)
 X = 2 V/cm
 Y = 0.2 mA/cm

Instellings V_{g1}: V max. = 50 V
 V min. = 0 V
 V_{g2+4} = 1.5 kV
 V_{g3} = 10 kV
 V_{g4} = 0.5 kV



KARAKTERISTIEK

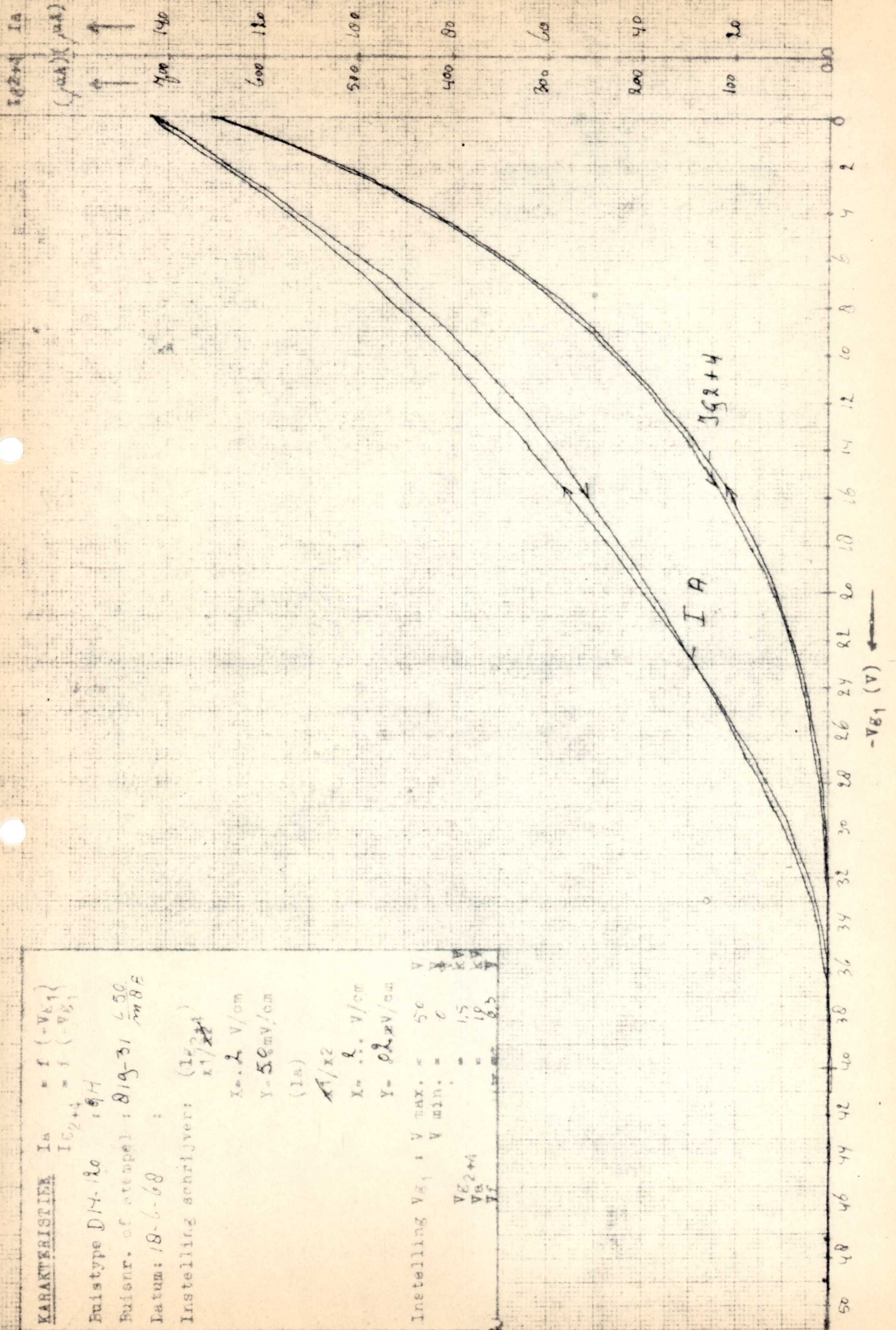
$I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$
Eenstypetype D/4-120 : 19H
Buisnr. of stampel : 819-31 650
Datum: 18-6-68 mBE

Instelling schrijver: (I_{G2+4})
 $K1/2A$

$X = 2$ V/cm
 $Y = 50$ mV/cm

(I_a)
 $X1/x2$
 $X = 2$ V/cm
 $Y = 0.2$ mV/cm

Instelling V_{G1} : V max. = 50
V min. = 0
 V_{G2+4} : V = 1.5
 V_{G1} : V = 1.5
 V_{G2+4} : V = 1.5
 V_{G1} : V = 1.5



KARAKTERISTIEK

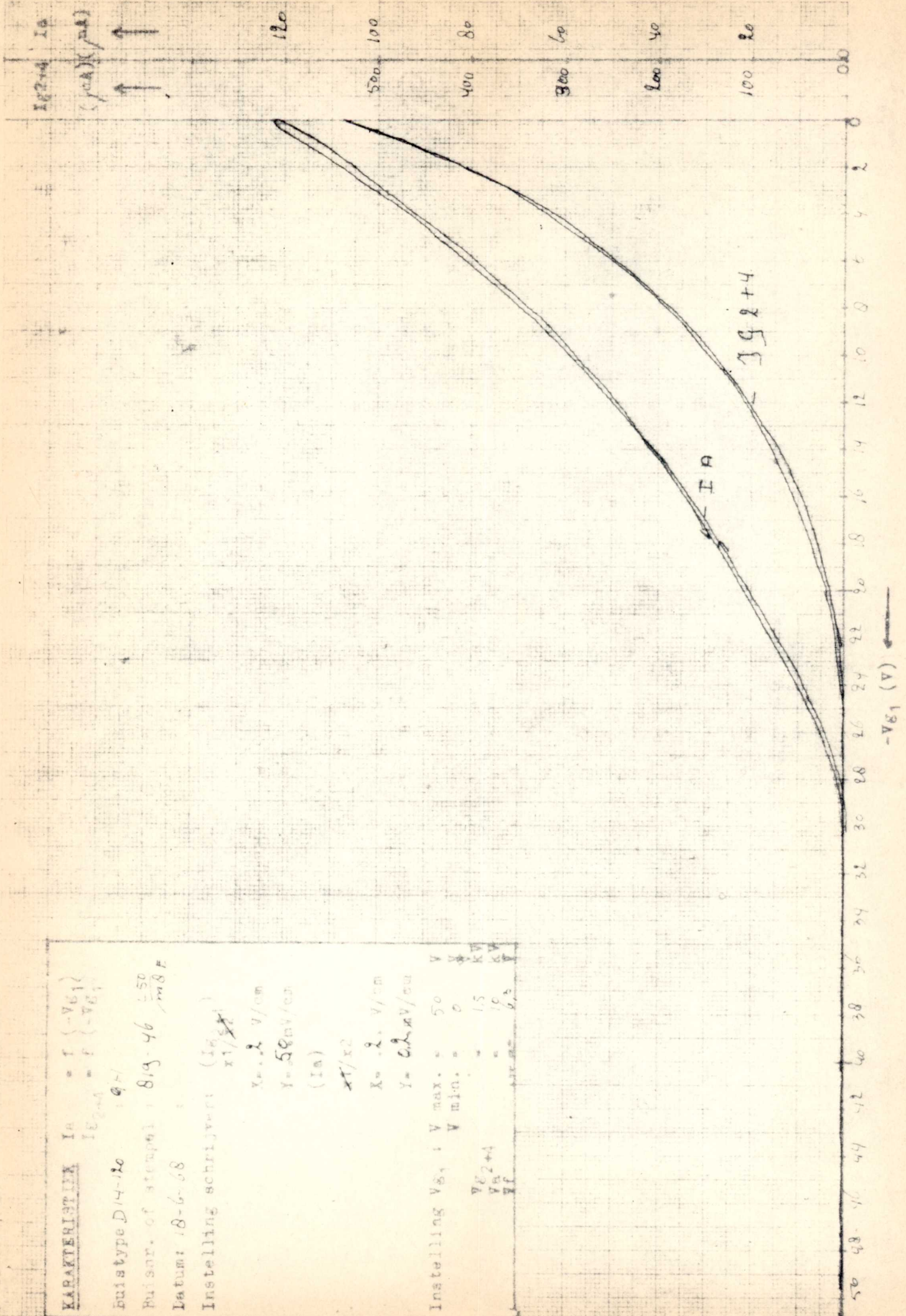
$I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$
Eenstypetype D/4-120 : 19H
Buisnr. of stampel : 819-46 650
Datum: 18-6-68 mBE

Instelling schrijver: (I_{G2+4})
 $K1/2A$

$X = 2$ V/cm
 $Y = 50$ mV/cm

(I_a)
 $X1/x2$
 $X = 2$ V/cm
 $Y = 0.2$ mV/cm

Instelling V_{G1} : V max. = 50
V min. = 0
 V_{G2+4} : V = 1.5
 V_{G1} : V = 1.5
 V_{G2+4} : V = 1.5
 V_{G1} : V = 1.5



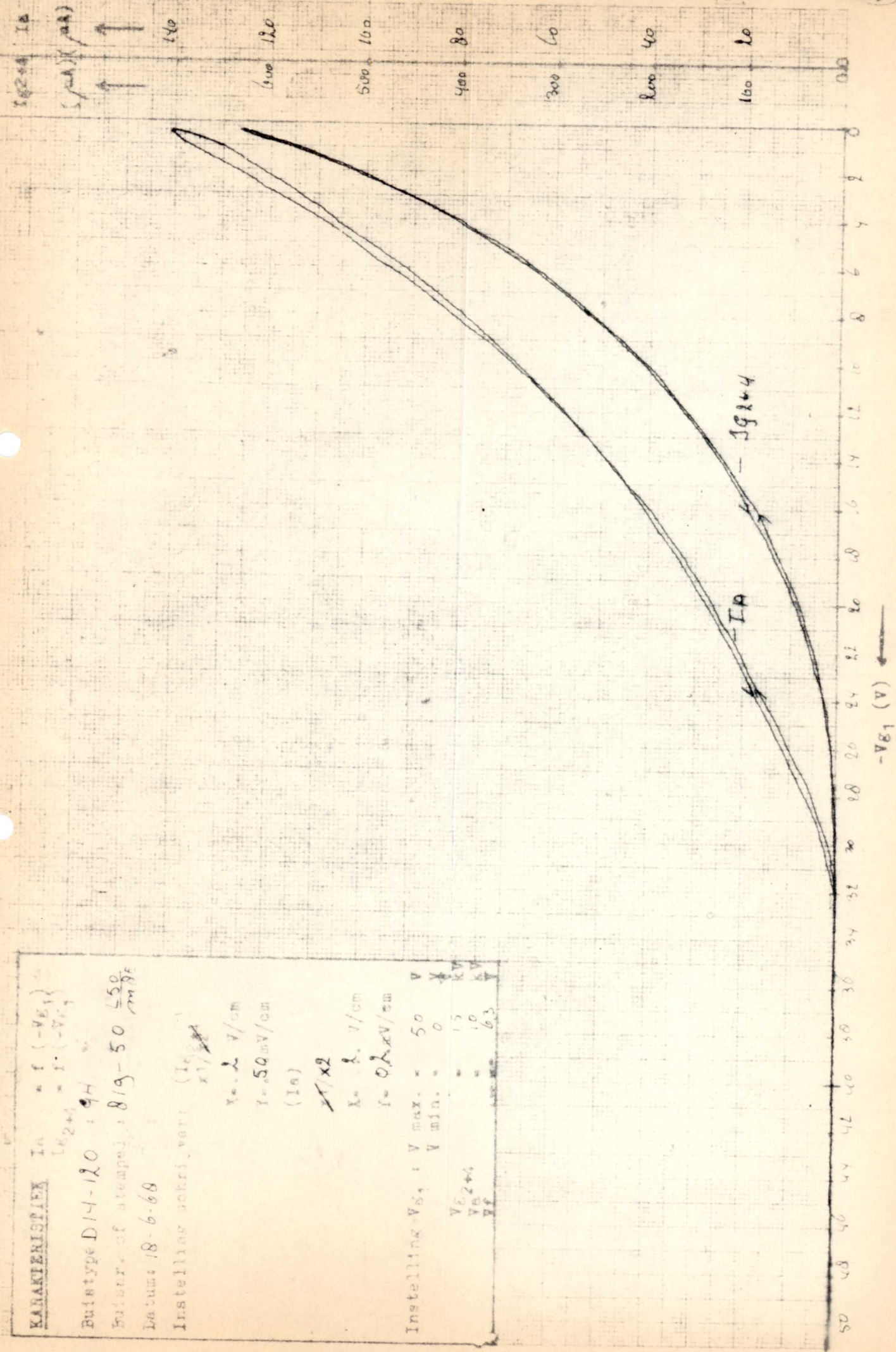
KARAKTERISTIEK

Buistype D/4-120 : 9H
 Buisnr. of stempel : 819-50 550
 Datum: 18-6-68

Instelling schrijver: (I_{G2+4})

X = 2 V/cm
 Y = 50 mV/cm
 (I_a)
 X1/x2
 X = 2 V/cm
 Y = 0,2 mV/cm

Instelling V_{G1}: V max. = 50 V
 V min. = 0
 V_{G2+4} = 1,5 KV
 V_A = 10 KV
 V_f = 6,5 KV



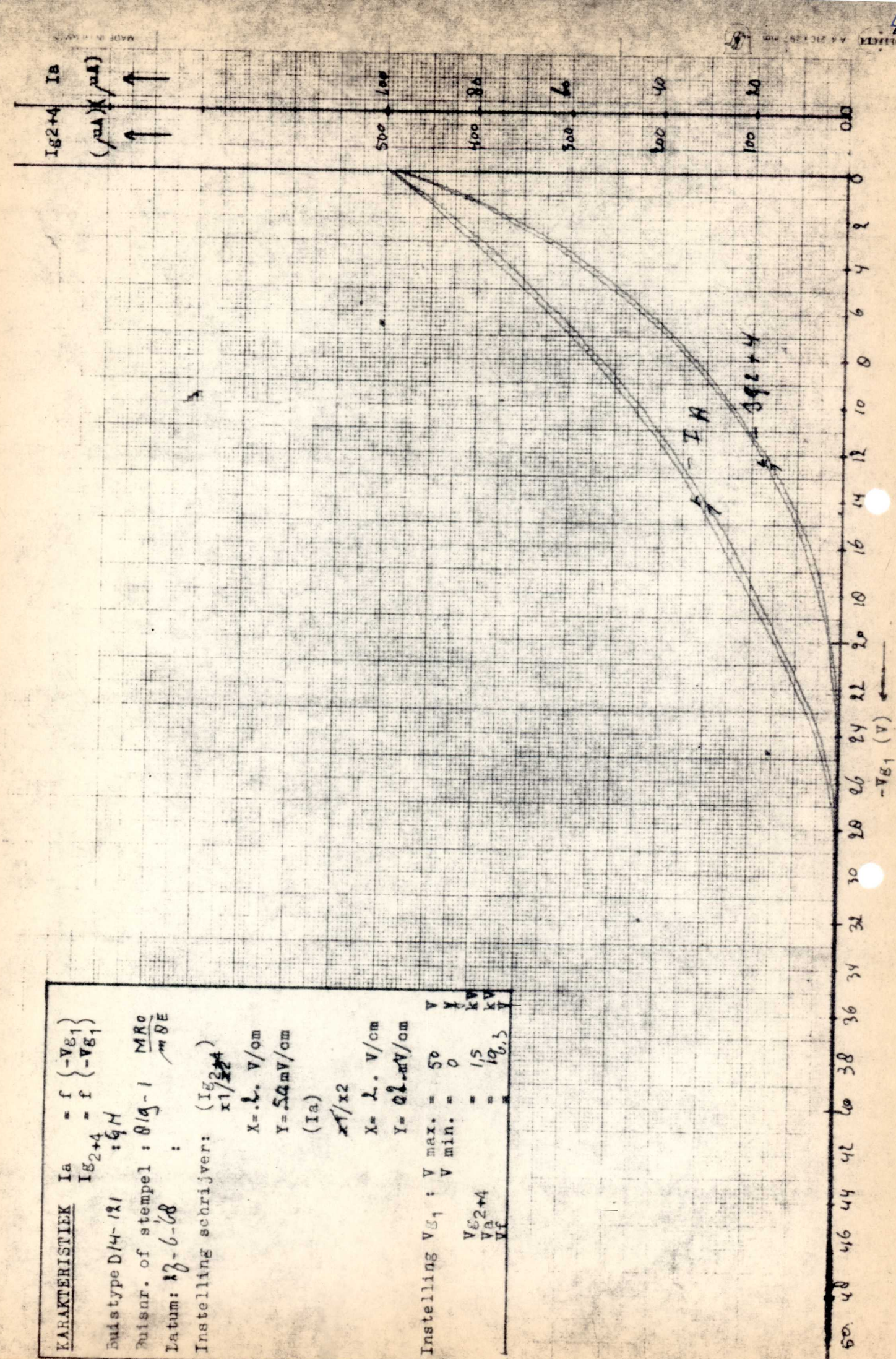
KARAKTERISTIEK

Buistype D/4-121 : 9H
 Buisnr. of stempel : 819-1 MRO
 Datum: 13-6-68

Instelling schrijver: (I_{G2+4})

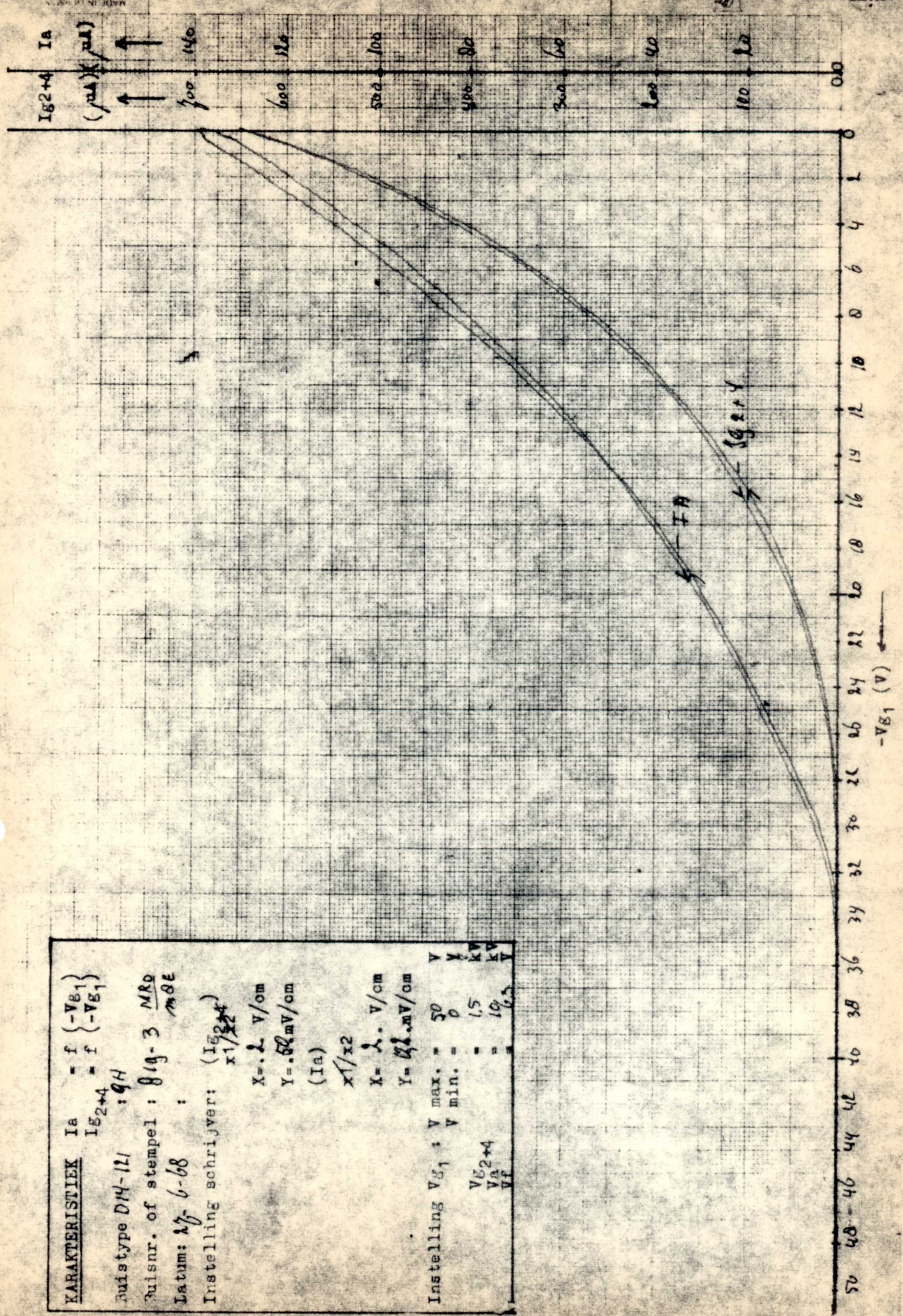
X = 2 V/cm
 Y = 50 mV/cm
 (I_a)
 X1/x2
 X = 2 V/cm
 Y = 0,2 mV/cm

Instelling V_{G1}: V max. = 50 V
 V min. = 0
 V_{G2+4} = 1,5 KV
 V_A = 10 KV
 V_f = 6,5 KV



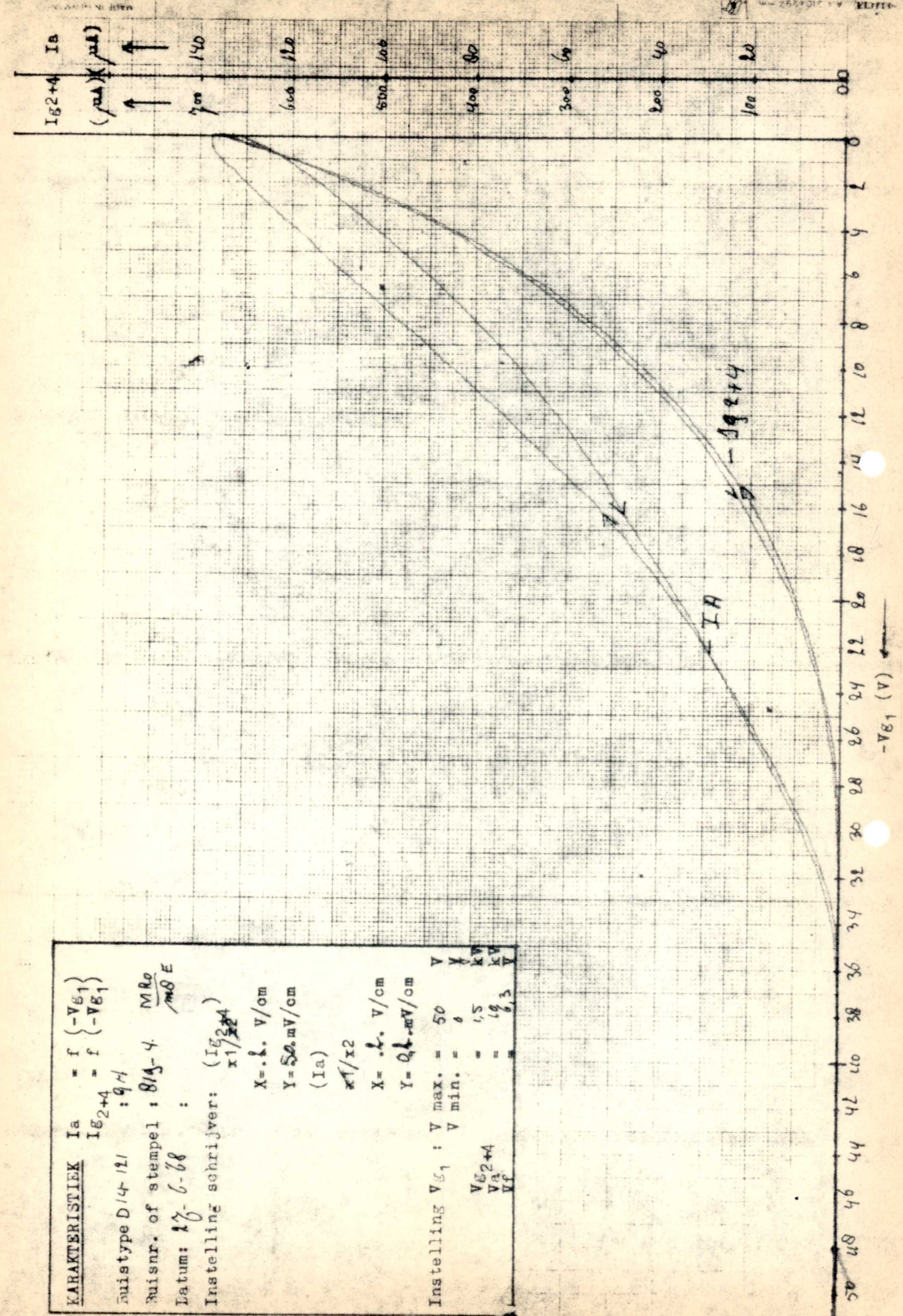
KARAKTERISTIEK $I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$
 buistype D/4-1/1 : 9H
 buisnr. of stempel : 8/4-3 MR0
 Latum : 17-6-68 MBE
 Instelling schrijver: (I_{G2+4})
 $X = 2.2 \text{ V/cm}$
 $Y = 50 \text{ mV/cm}$
 (I_a)
 $X/x2$
 $X = 2.2 \text{ V/cm}$
 $Y = 50 \text{ mV/cm}$

Instelling V_{G1} : V max. = 50
 V min. = 0
 V_{G2+4} : V max. = 1.5
 V min. = 0



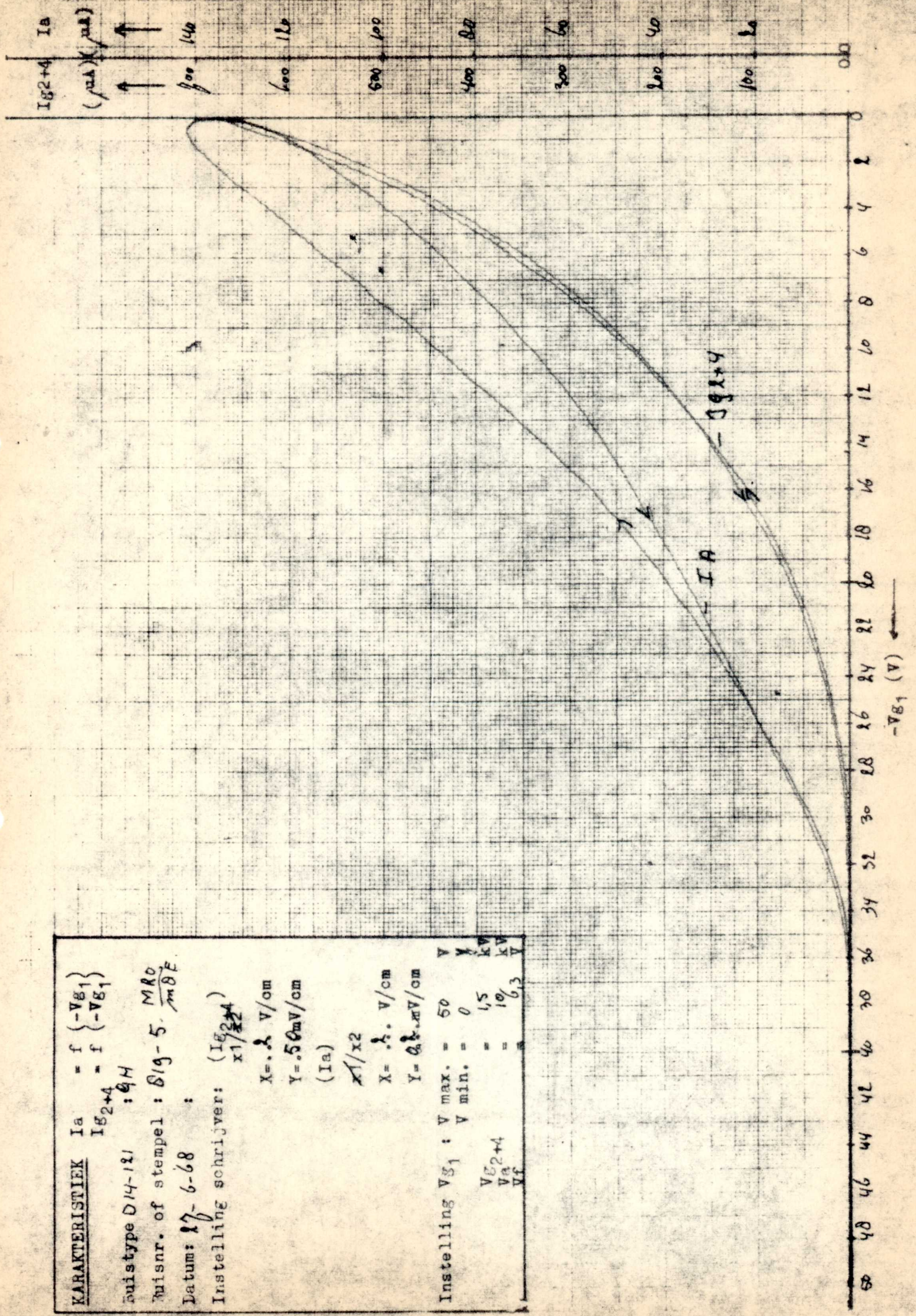
KARAKTERISTIEK $I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$
 buistype D/4-1/1 : 9H
 buisnr. of stempel : 8/4-4 MR0
 Latum : 17-6-68 MBE
 Instelling schrijver: (I_{G2+4})
 $X = 2.2 \text{ V/cm}$
 $Y = 50 \text{ mV/cm}$
 (I_a)
 $X/x2$
 $X = 2.2 \text{ V/cm}$
 $Y = 50 \text{ mV/cm}$

Instelling V_{G1} : V max. = 50
 V min. = 0
 V_{G2+4} : V max. = 1.5
 V min. = 0



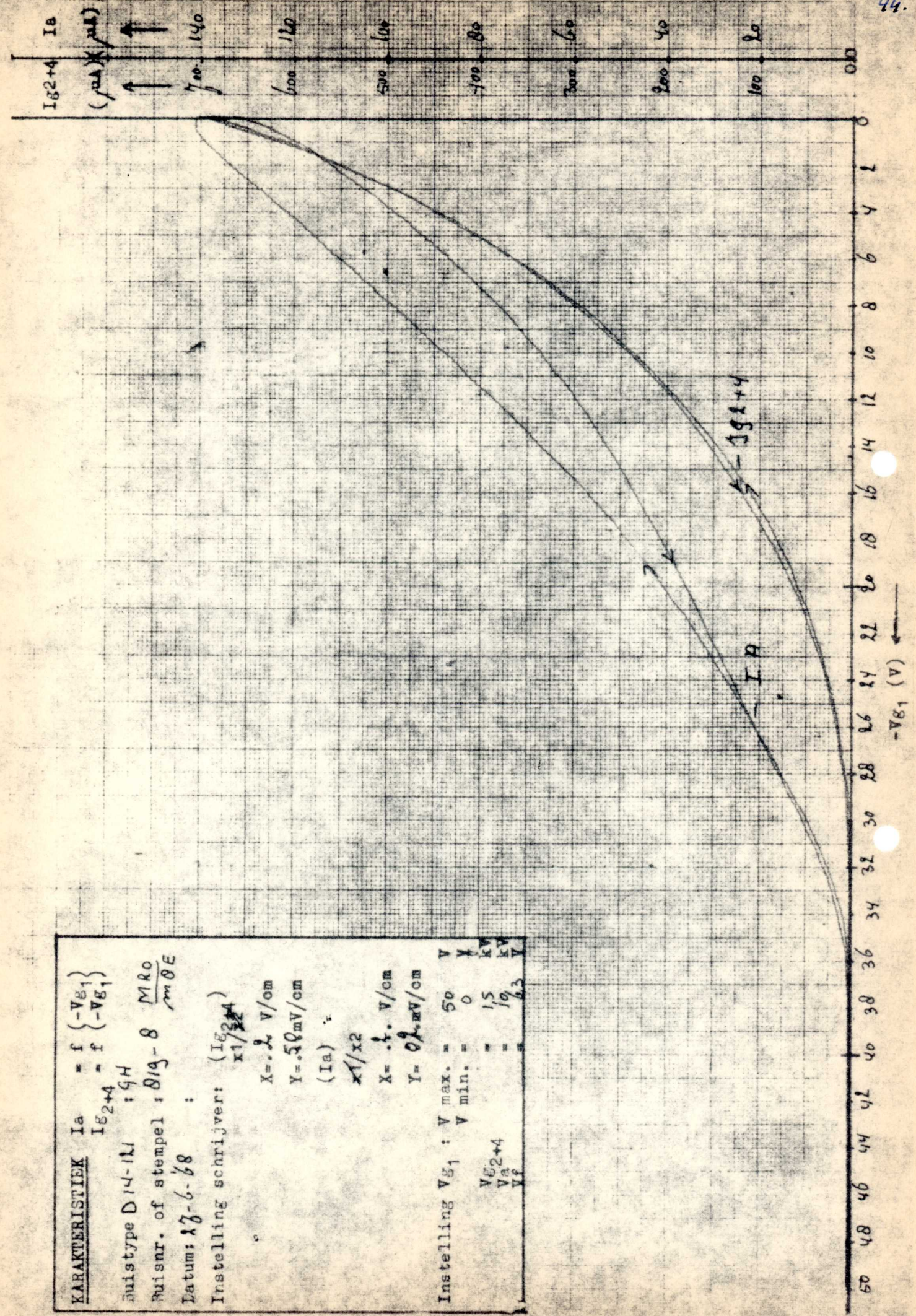
KARAKTERISTIEK
 $I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$
 buistype D14-121 : 9H
 buisnr. of stempel : 819-5 MRO
 mDE
 Datum: 17-6-68
 Instelling schrijver: (I_{G2+4})
 $x1/224$
 $X = .2 \text{ V/cm}$
 $Y = .50 \text{ mV/cm}$
 (Ia)
 $x1/x2$
 $X = .2 \text{ V/cm}$
 $Y = .02 \text{ mV/cm}$

Instelling V_{G1} : V max. = 50
 V min. = 0
 V_{G2+4} = 1,5
 V_f = 10
 6,3

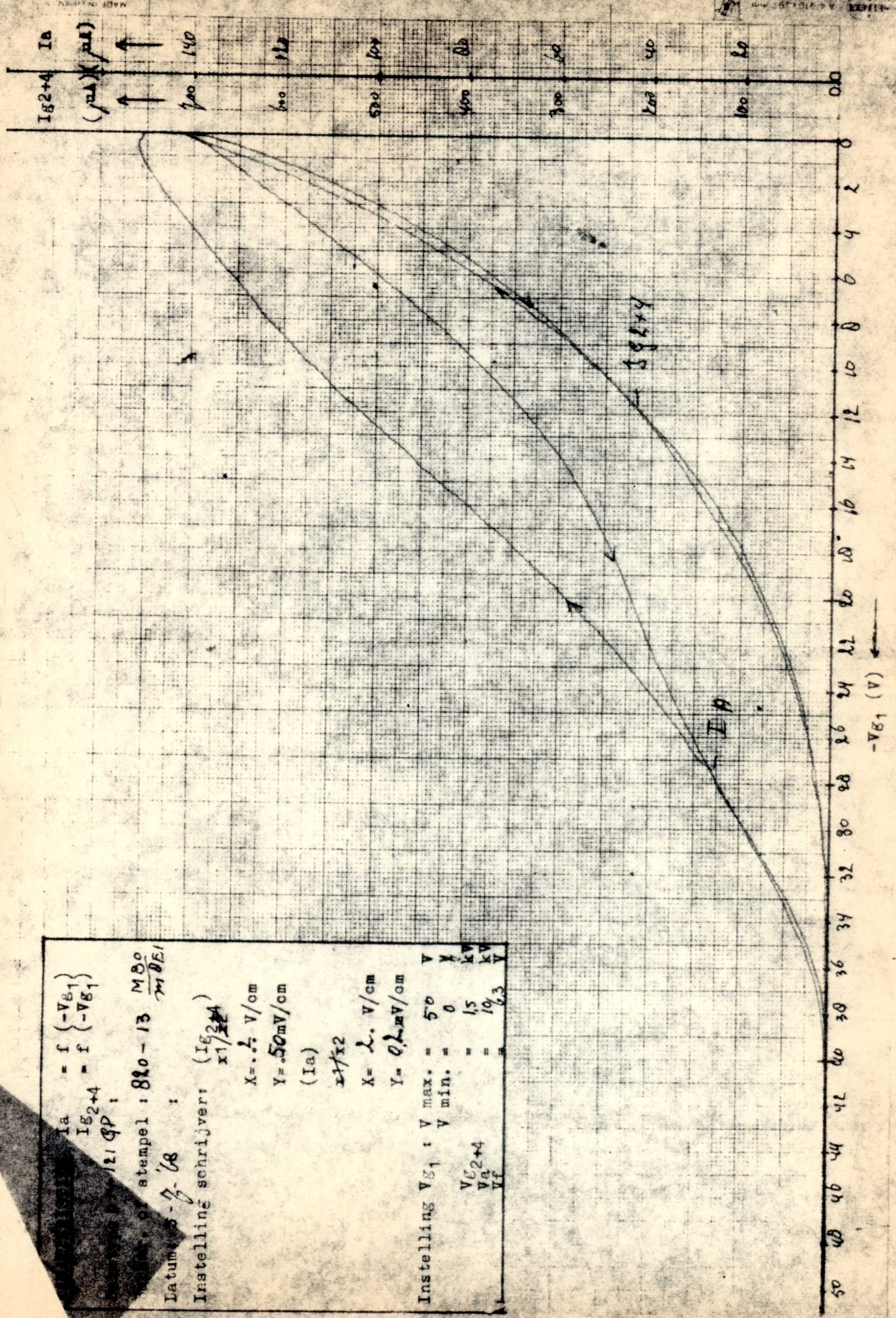


KARAKTERISTIEK
 $I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$
 buistype D14-121 : 9H
 buisnr. of stempel : 819-8 MRO
 mDE
 Datum: 17-6-68
 Instelling schrijver: (I_{G2+4})
 $x1/224$
 $X = .2 \text{ V/cm}$
 $Y = .50 \text{ mV/cm}$
 (Ia)
 $x1/x2$
 $X = .2 \text{ V/cm}$
 $Y = .02 \text{ mV/cm}$

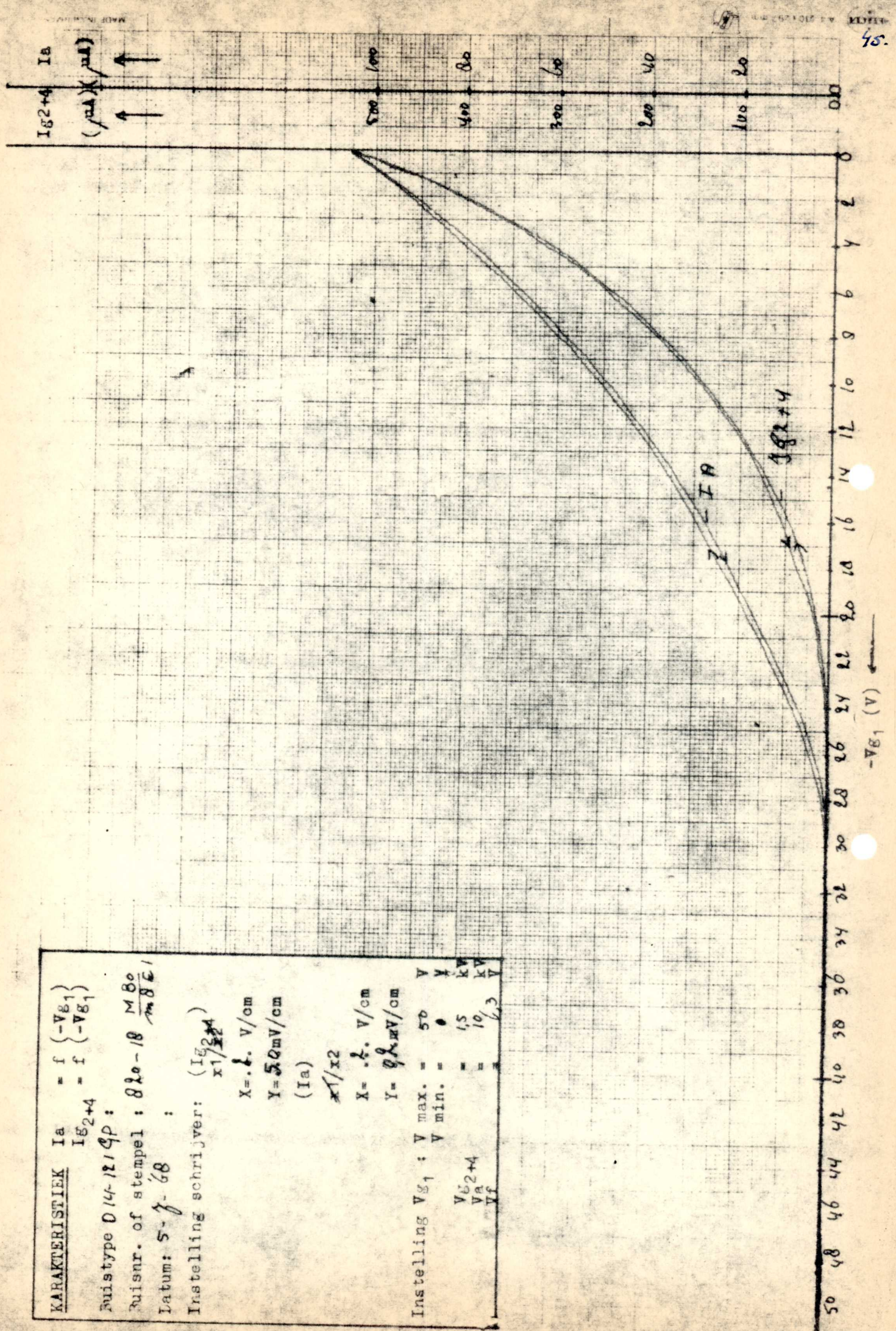
Instelling V_{G1} : V max. = 50
 V min. = 0
 V_{G2+4} = 1,5
 V_f = 10
 6,3



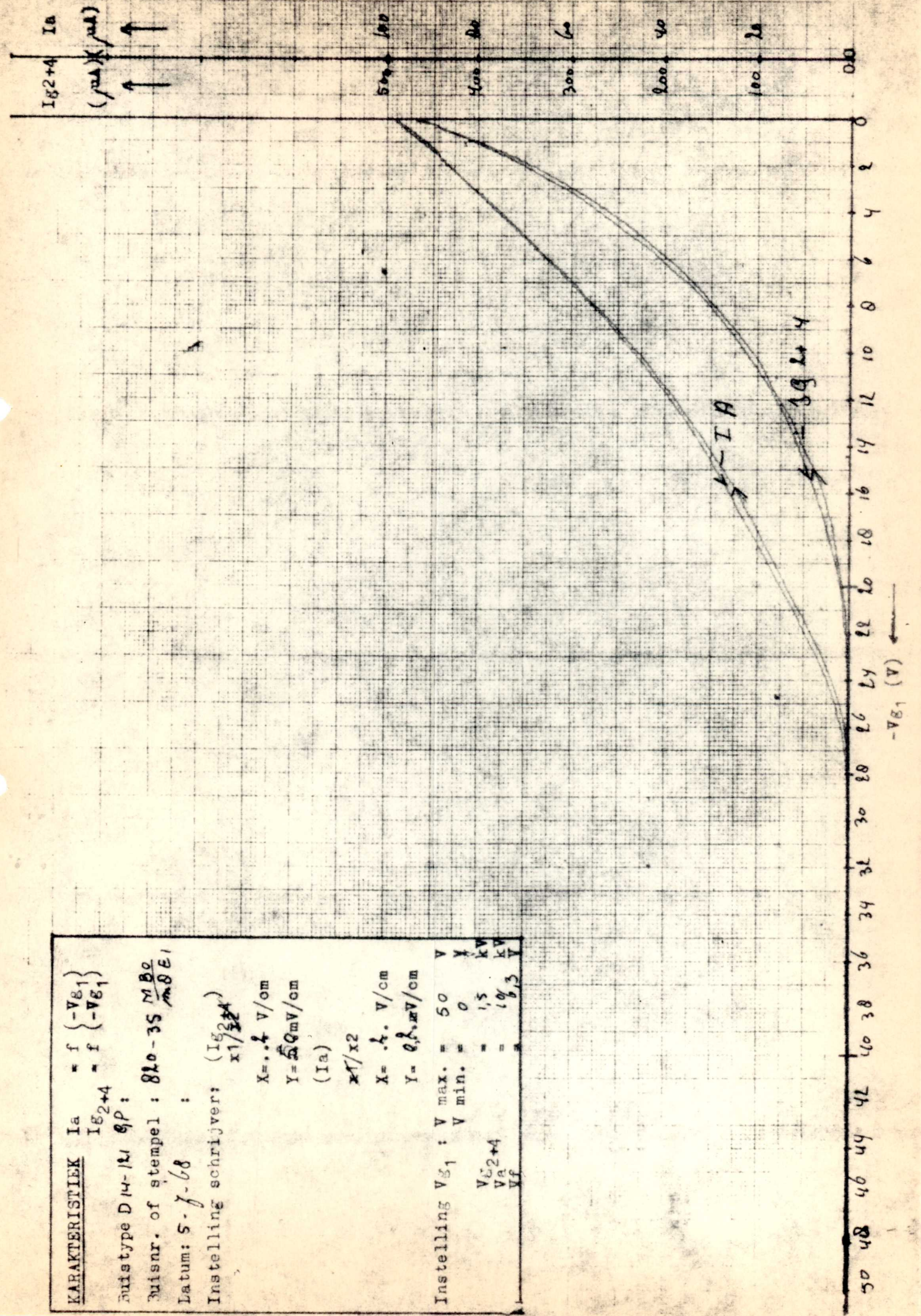
$I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$
 Datum: 5-7-68
 stempel: 810-13 MBO
 Instelling schrijver: (I_{G2+4})
 $X = 1.5 \text{ V/cm}$
 $Y = 50 \text{ mV/cm}$
 (I_a)
 $x1/x2$
 $X = 2. \text{ V/cm}$
 $Y = 0.2 \text{ mV/cm}$
 Instelling V_{G1} : V max. = 50
 V min. = 0
 V_{G2+4}
 $V_A = 1.5 \text{ kV}$
 $V_f = 10.3 \text{ kV}$



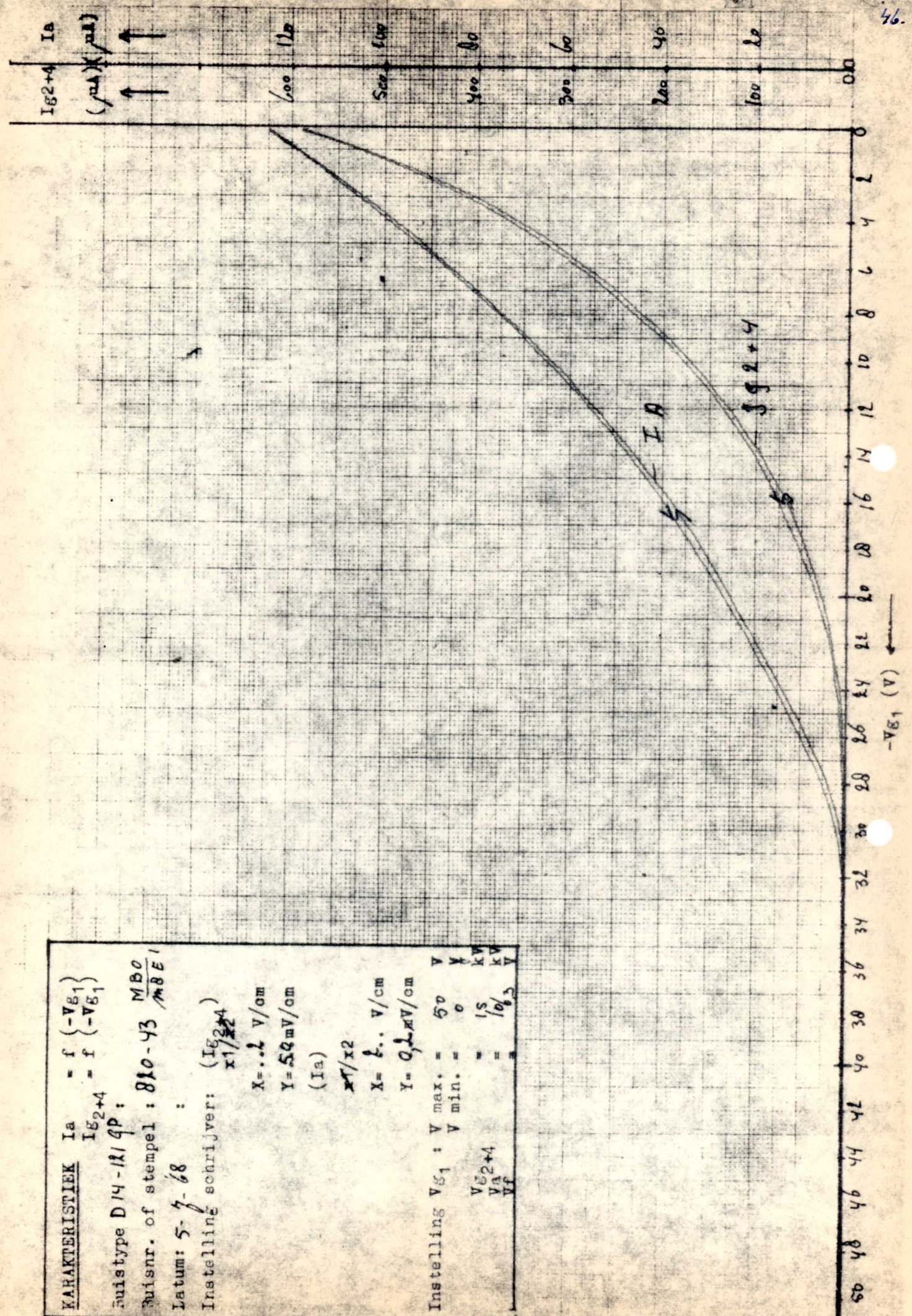
KARAKTERISTIEK
 $I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$
 Buistype D14-121GP
 Buisnr. of stempel: 810-18 MBO
 Datum: 5-7-68
 Instelling schrijver: (I_{G2+4})
 $X = 1.5 \text{ V/cm}$
 $Y = 50 \text{ mV/cm}$
 (I_a)
 $x1/x2$
 $X = 2. \text{ V/cm}$
 $Y = 0.2 \text{ mV/cm}$
 Instelling V_{G1} : V max. = 50
 V min. = 0
 V_{G2+4}
 $V_A = 1.5 \text{ kV}$
 $V_f = 10.3 \text{ kV}$



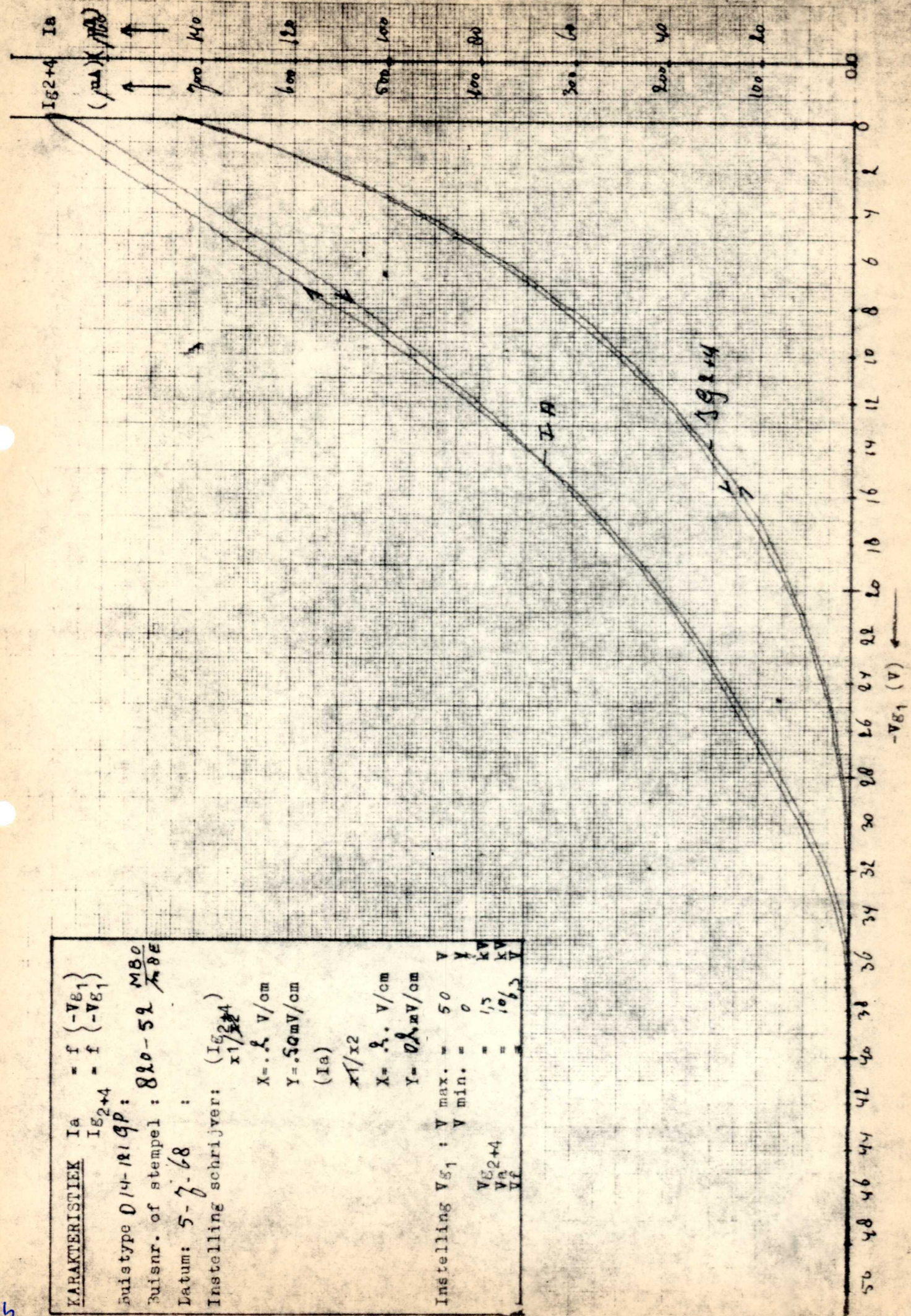
KARAKTERISTIEK $I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$
 Buistype D14-181 GP:
 Buisnr. of stempel : 810-35 MBO
 Datum: 5-7-68
 Instelling schrijver: (I_{G2+4})
 $X = 0.4 \text{ V/cm}$
 $Y = 50 \text{ mV/cm}$
 (I_a)
 $X1/X2$
 $X = 1.5 \text{ V/cm}$
 $Y = 0.2 \text{ mV/cm}$
 Instelling V_{G1} : $V_{\text{max.}} = 50$
 $V_{\text{min.}} = 0$
 V_{G2+4} : $= 1.5$
 V_f : $= 10.3$



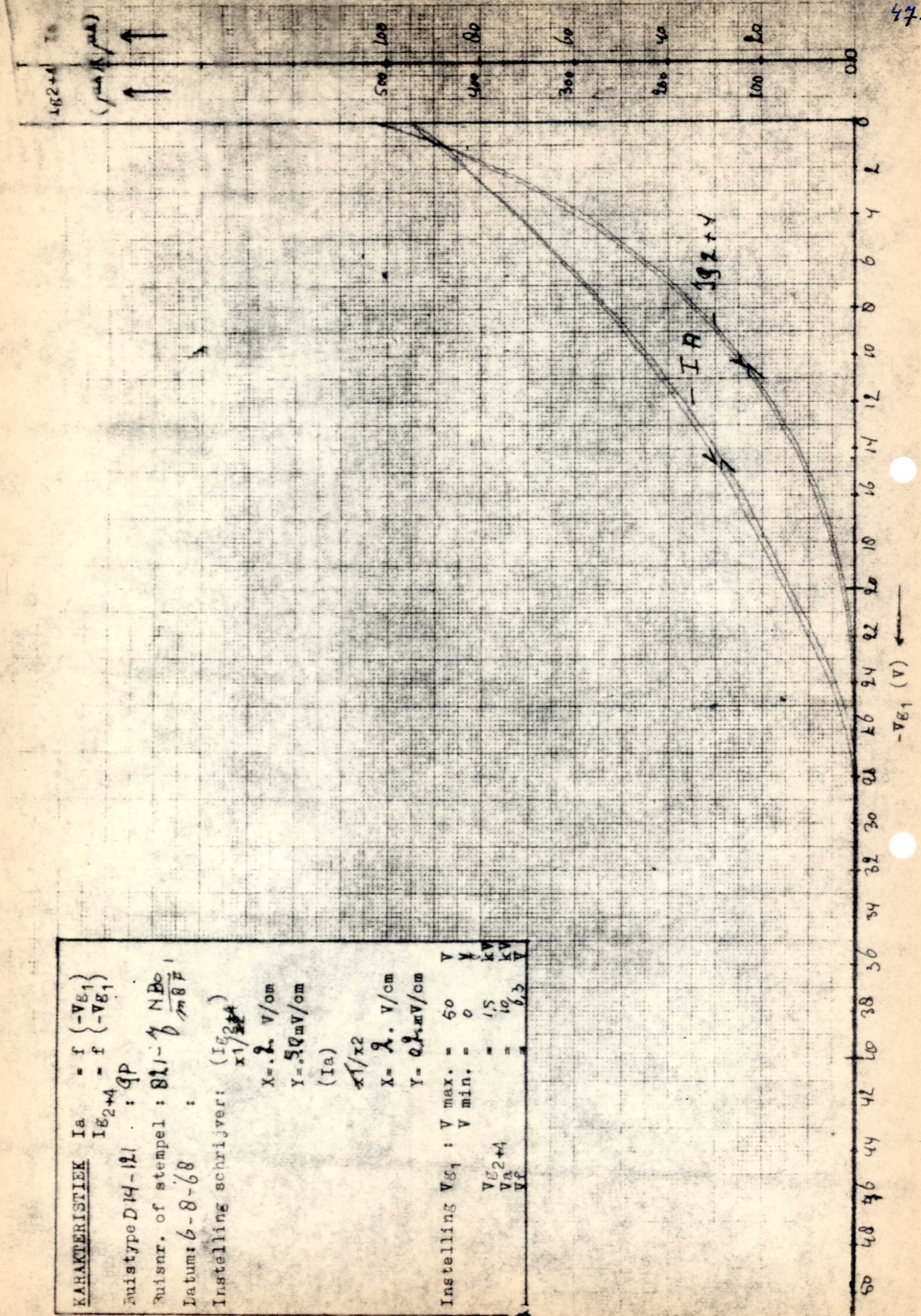
KARAKTERISTIEK $I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$
 Buistype D14-181 GP:
 Buisnr. of stempel : 810-43 MBO
 Datum: 5-7-68
 Instelling schrijver: (I_{G2+4})
 $X = 0.2 \text{ V/cm}$
 $Y = 50 \text{ mV/cm}$
 (I_a)
 $X1/X2$
 $X = 1.5 \text{ V/cm}$
 $Y = 0.2 \text{ mV/cm}$
 Instelling V_{G1} : $V_{\text{max.}} = 50$
 $V_{\text{min.}} = 0$
 V_{G2+4} : $= 1.5$
 V_f : $= 10.3$



KARAKTERISTIEK $I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$
 buistype D14-121 9P : 820-52 $\frac{MBO}{MDE}$
 buisnr. of stempel :
 Datum: 5-7-68
 Instelling schrijver: (I_{G2+4})
 $x1/x2$
 $X = 2 \text{ V/cm}$
 $Y = 50 \text{ mV/cm}$
 (Ia)
 $x1/x2$
 $X = 2 \text{ V/cm}$
 $Y = 0,2 \text{ mV/cm}$
 Instelling V_{G1} : V max. = 50 V
 V min. = 0 V
 V_{G2+4} : V max. = 1,5 kV
 V min. = 10,5 kV

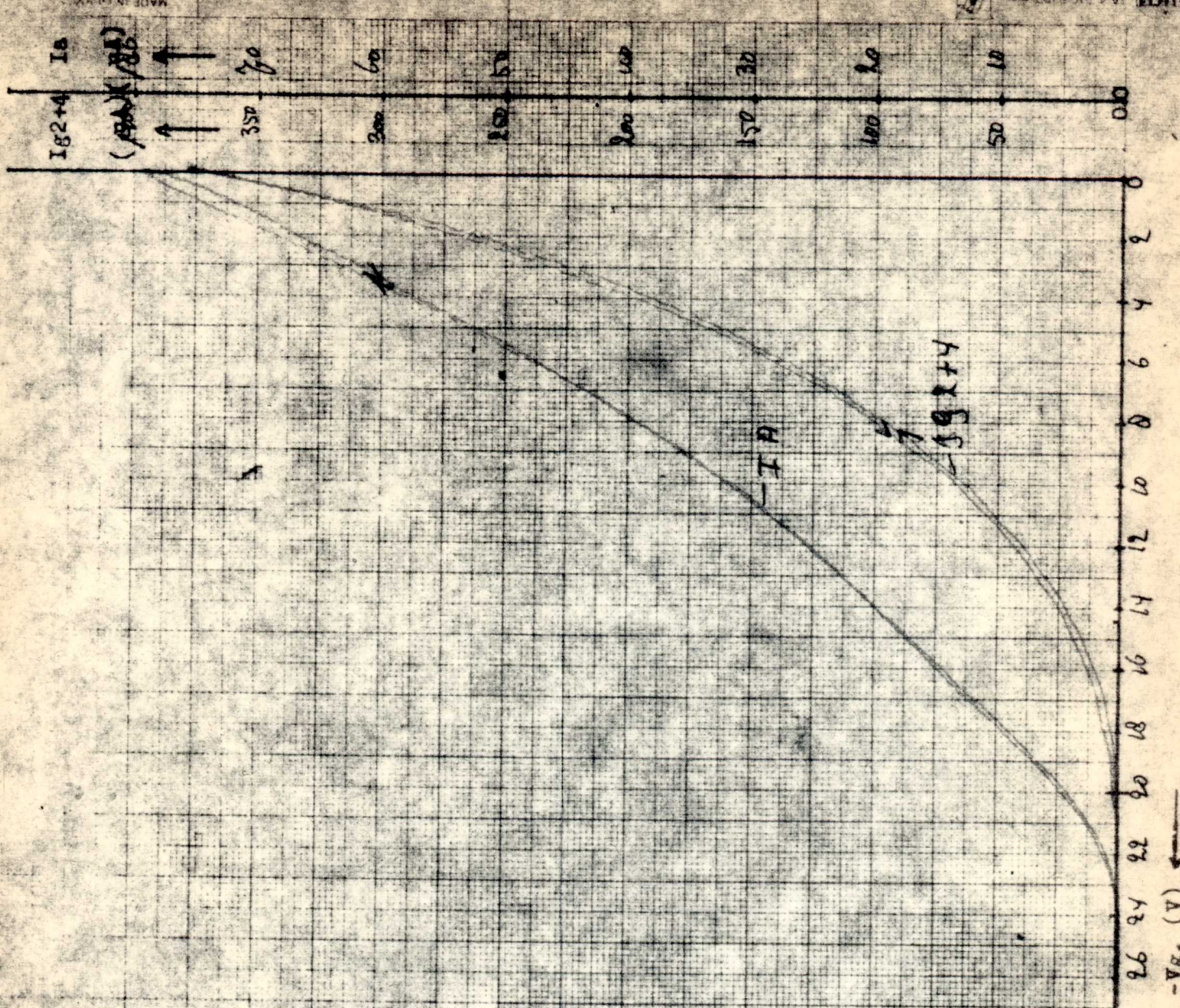


KARAKTERISTIEK $I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$
 buistype D14-121 : 9P
 buisnr. of stempel : 821-7 $\frac{MBO}{MDE}$
 Datum: 6-8-68
 Instelling schrijver: (I_{G2+4})
 $x1/x2$
 $X = 2 \text{ V/cm}$
 $Y = 50 \text{ mV/cm}$
 (Ia)
 $x1/x2$
 $X = 2 \text{ V/cm}$
 $Y = 0,2 \text{ mV/cm}$
 Instelling V_{G1} : V max. = 50 V
 V min. = 0 V
 V_{G2+4} : V max. = 1,5 kV
 V min. = 10,5 kV



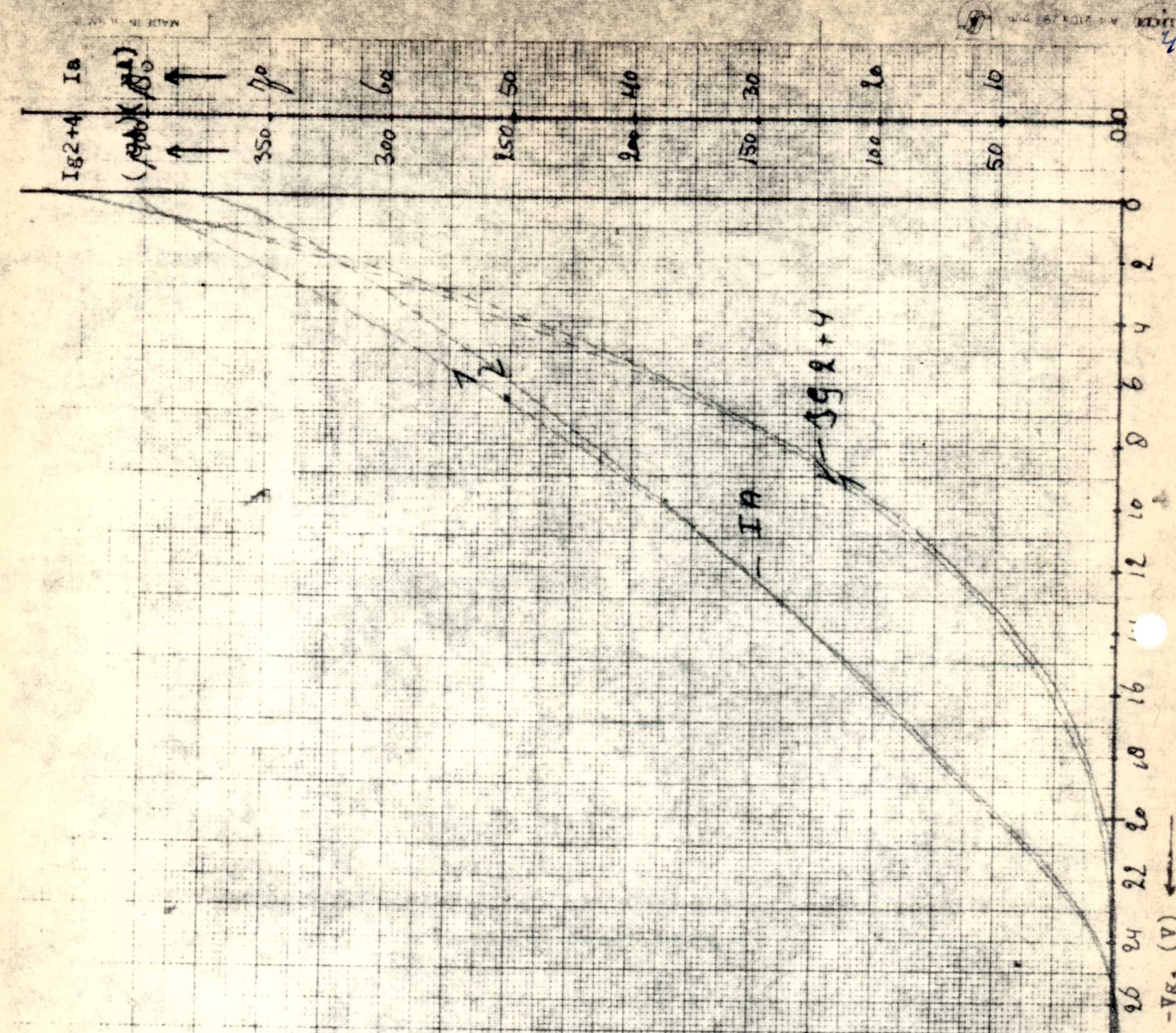
KARAKTERISTIEK I_a = f $\left\{ \begin{matrix} -V_{G1} \\ -V_{G2} \end{matrix} \right\}$
 I_{G2+4} = f $\left\{ \begin{matrix} -V_{G1} \\ -V_{G2} \end{matrix} \right\}$
 Buistype D 14-121 : GP
 PUISNR. of stempel : 81-13 NBO / mBF
 Datum : 6-8-68
 Instelling schrijver : (I_{G2+4})
 $x1/x2$
 $X = 2.5$ V/cm
 $Y = 50$ mV/cm
 (Ia)
 $x1/x2$
 $X = 2.5$ V/cm
 $Y = 50$ mV/cm

Instelling V_{G1} : V max. = 50
 V min. = 0
 V_{G2+4} : V max. = 15
 V min. = 10
 V_f : V max. = 6.5
 V min. = 0

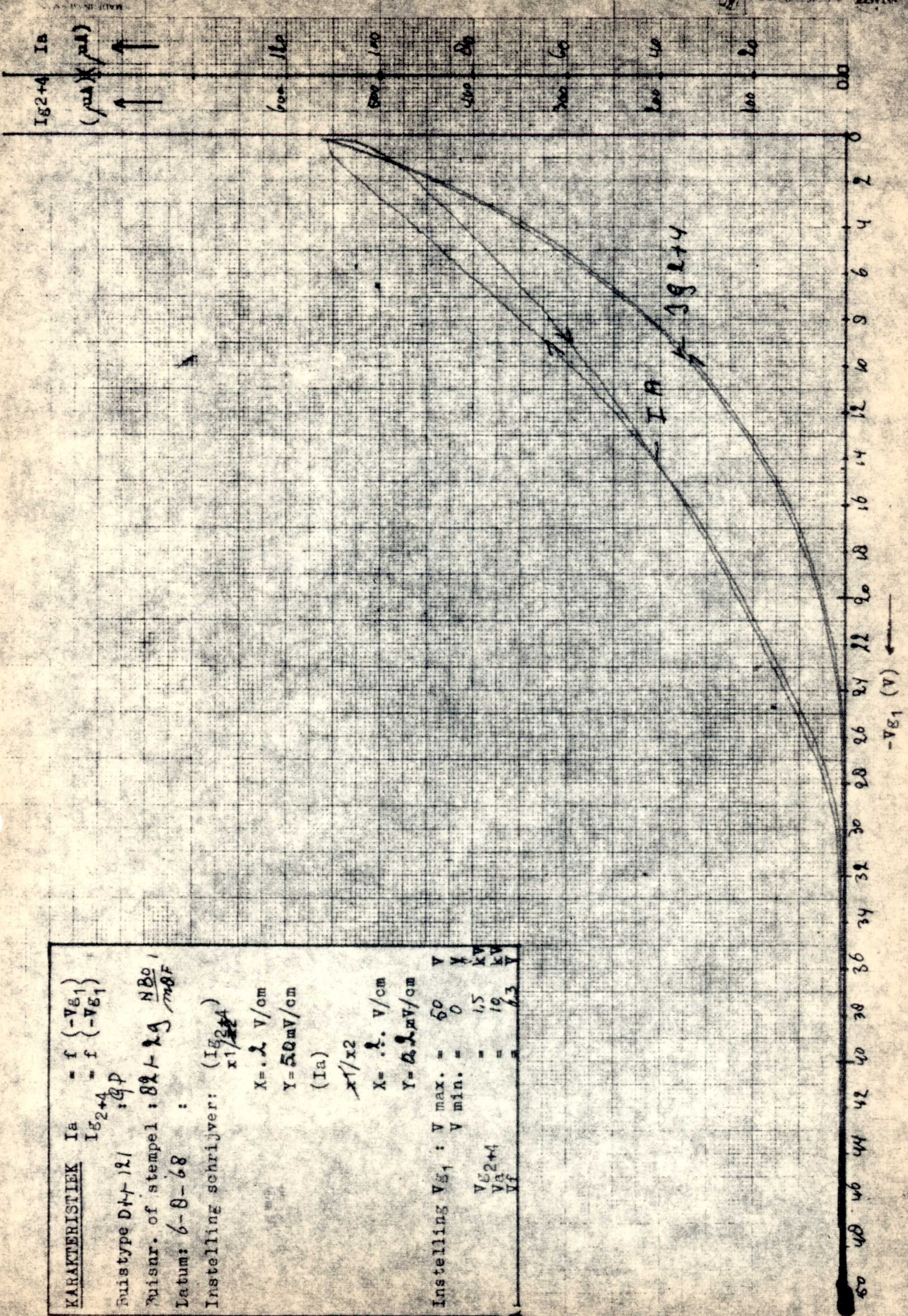


KARAKTERISTIEK I_a = f $\left\{ \begin{matrix} -V_{G1} \\ -V_{G2} \end{matrix} \right\}$
 I_{G2+4} = f $\left\{ \begin{matrix} -V_{G1} \\ -V_{G2} \end{matrix} \right\}$
 Buistype D 14-121 : GP
 PUISNR. of stempel : 81-13 NBO / mBF
 Datum : 6-8-68
 Instelling schrijver : (I_{G2+4})
 $x1/x2$
 $X = 2.5$ V/cm
 $Y = 50$ mV/cm
 (Ia)
 $x1/x2$
 $X = 2.5$ V/cm
 $Y = 50$ mV/cm

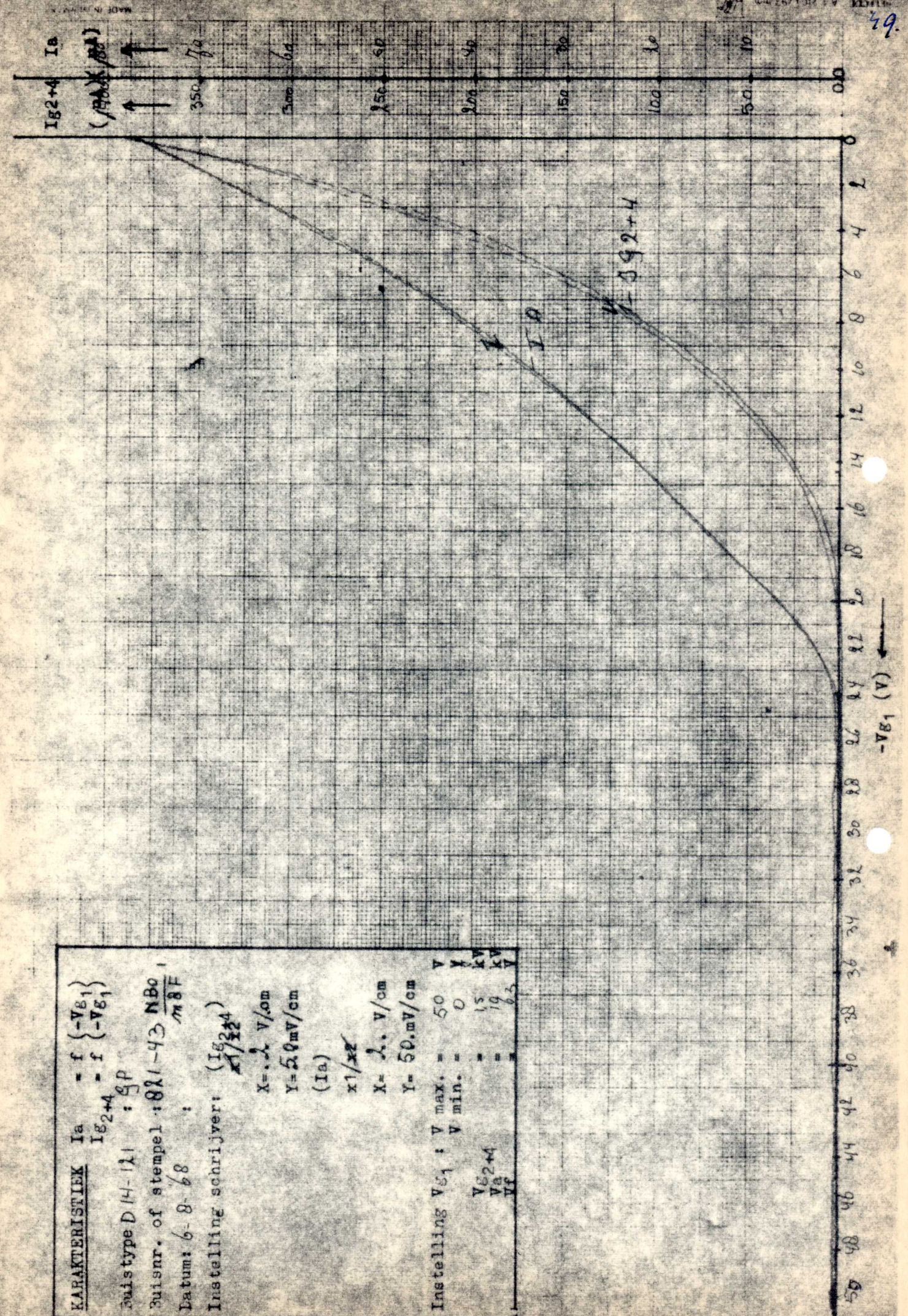
Instelling V_{G1} : V max. = 50
 V min. = 0
 V_{G2+4} : V max. = 15
 V min. = 10
 V_f : V max. = 6.5
 V min. = 0



KARAKTERISTIEK I_a - $f(-V_{G1})$
 I_{G2+4} - $f(-V_{G1})$
 Buistype D4-121 : GP
 Buisnr. of stempel : 821-29 NBO / m8F
 Datum: 6-8-68
 Instelling schrijver: (I_{G2+4})
 $x1/x2$
 $X = 2$ V/cm
 $Y = 50$ mV/cm
 (Ia)
 $x1/x2$
 $X = 2$ V/cm
 $Y = 50$ mV/cm
 Instelling V_{G1} : V max. = 50
 V min. = 0
 V_{G2+4} : V = 15
 V_A : V = 19
 V_f : V = 63



KARAKTERISTIEK I_a - $f(-V_{G1})$
 I_{G2+4} - $f(-V_{G1})$
 Buistype D4-121 : GP
 Buisnr. of stempel : 821-43 NBO / m8F
 Datum: 6-8-68
 Instelling schrijver: (I_{G2+4})
 $x1/x2$
 $X = 2$ V/cm
 $Y = 50$ mV/cm
 (Ia)
 $x1/x2$
 $X = 2$ V/cm
 $Y = 50$ mV/cm
 Instelling V_{G1} : V max. = 50
 V min. = 0
 V_{G2+4} : V = 15
 V_A : V = 19
 V_f : V = 63



KARAKTERISTIEK $I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$

Buisstype D14-1L1 : 9P
 Buisnr. of stempel : 812-39 NB02
 Datum: 8-6-68

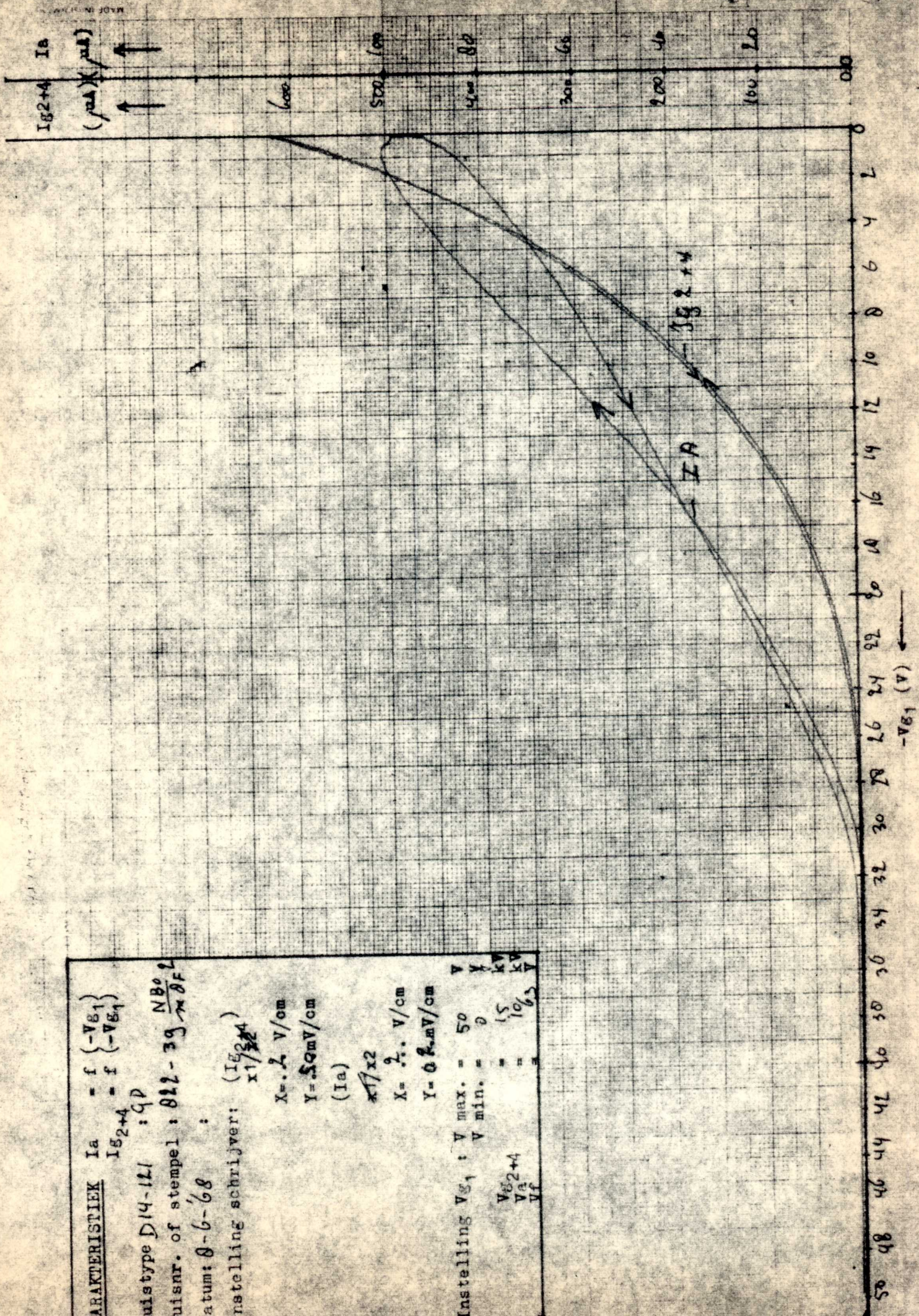
Instelling schrijver: (I_{G2+4})
 $x1/224$

$X = 2$ V/cm
 $Y = 50$ mV/cm
 (Ia)

$x1/x2$
 $X = 2$ V/cm
 $Y = 0.2$ mV/cm

Instelling V_{G1} : V max. = 50 V
 V min. = 0 V

V_{G2+4} : V max. = 15 KV
 V_{G1} : V min. = 10 KV
 V_f : V min. = 0 V



KARAKTERISTIEK $I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$

Buisstype D14-1L1 : 9P
 Buisnr. of stempel : 812-46 NB02
 Datum: 8-6-68

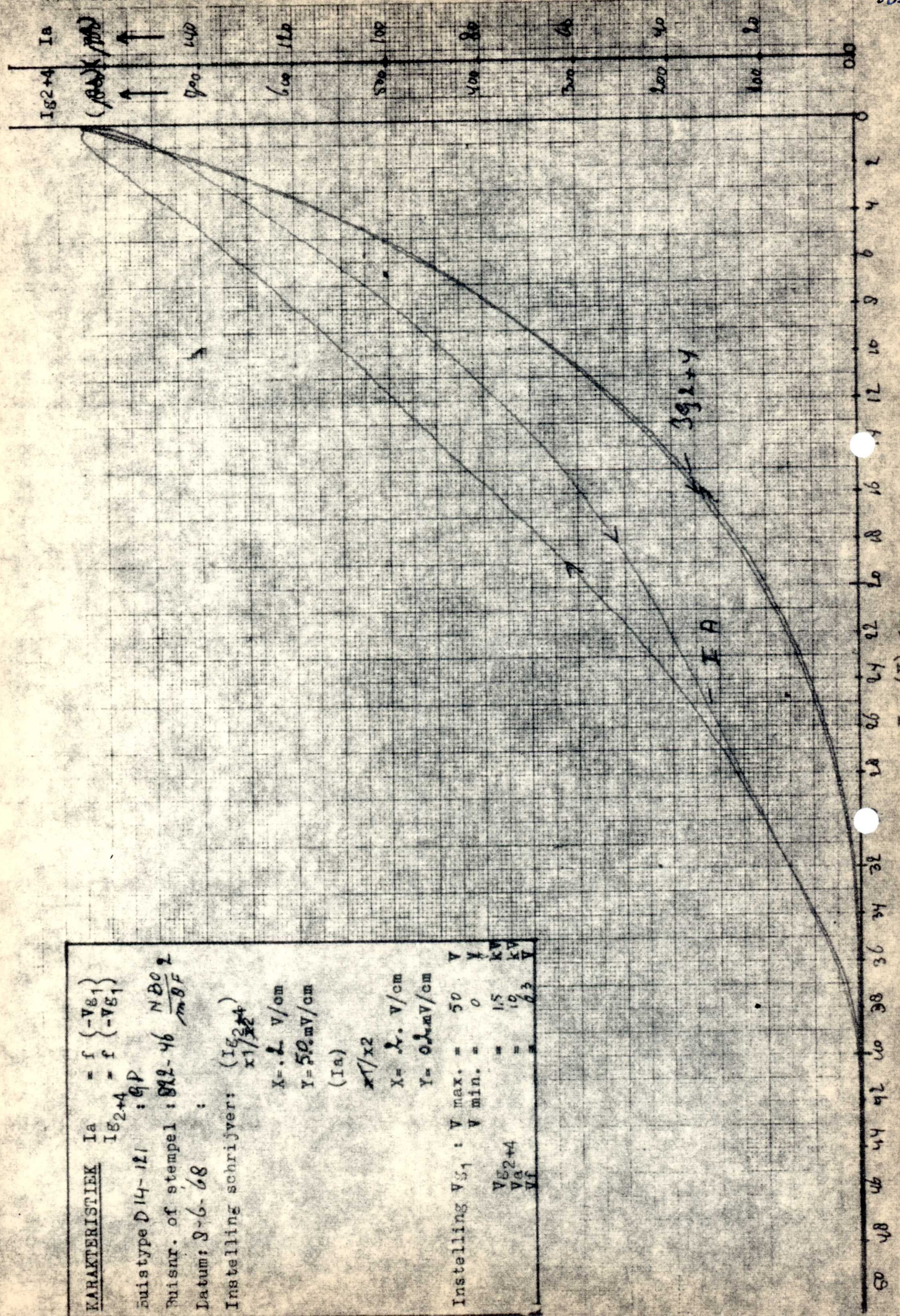
Instelling schrijver: (I_{G2+4})
 $x1/224$

$X = 2$ V/cm
 $Y = 50$ mV/cm
 (Ia)

$x1/x2$
 $X = 2$ V/cm
 $Y = 0.2$ mV/cm

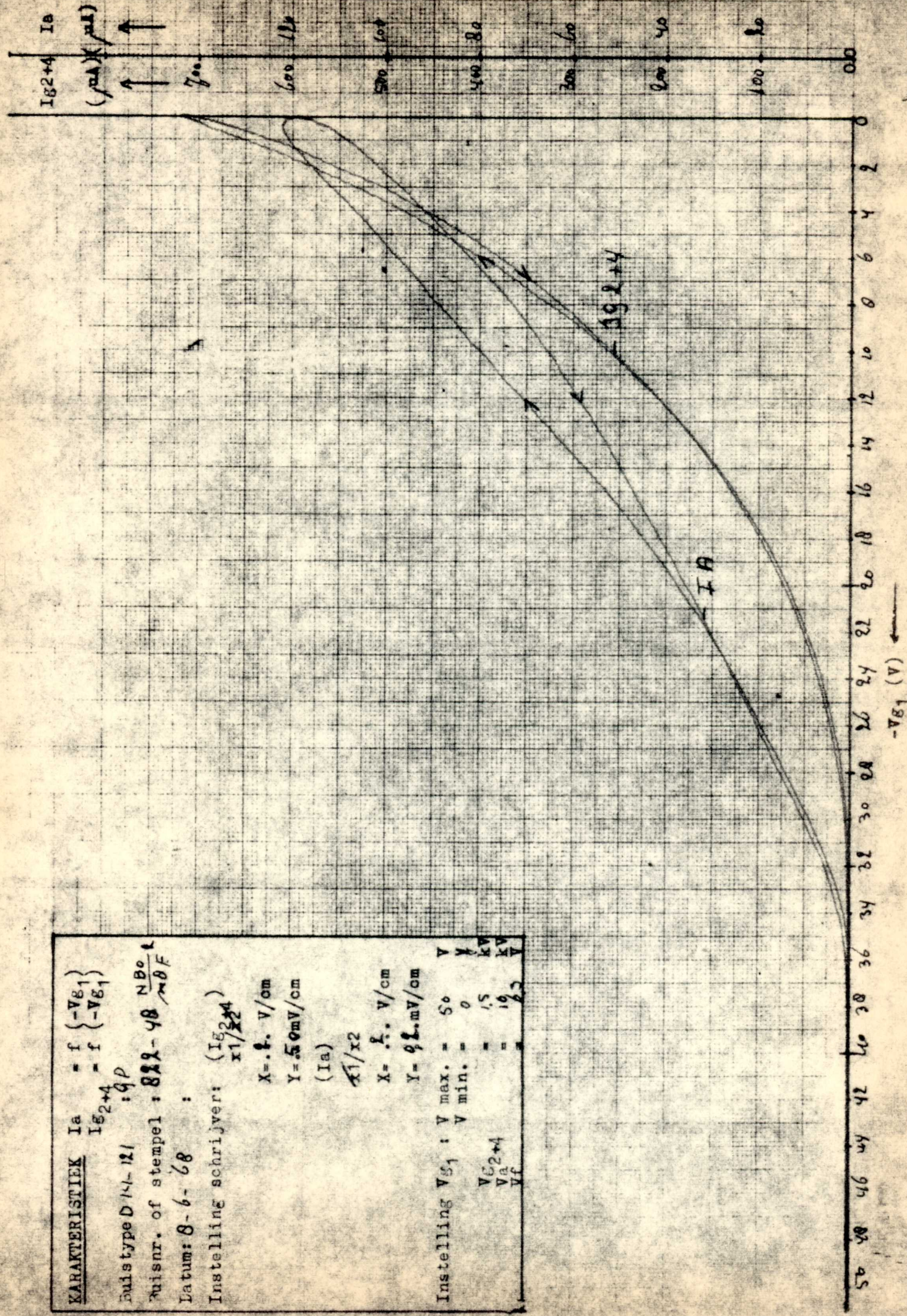
Instelling V_{G1} : V max. = 50 V
 V min. = 0 V

V_{G2+4} : V max. = 15 KV
 V_{G1} : V min. = 10 KV
 V_f : V min. = 0 V

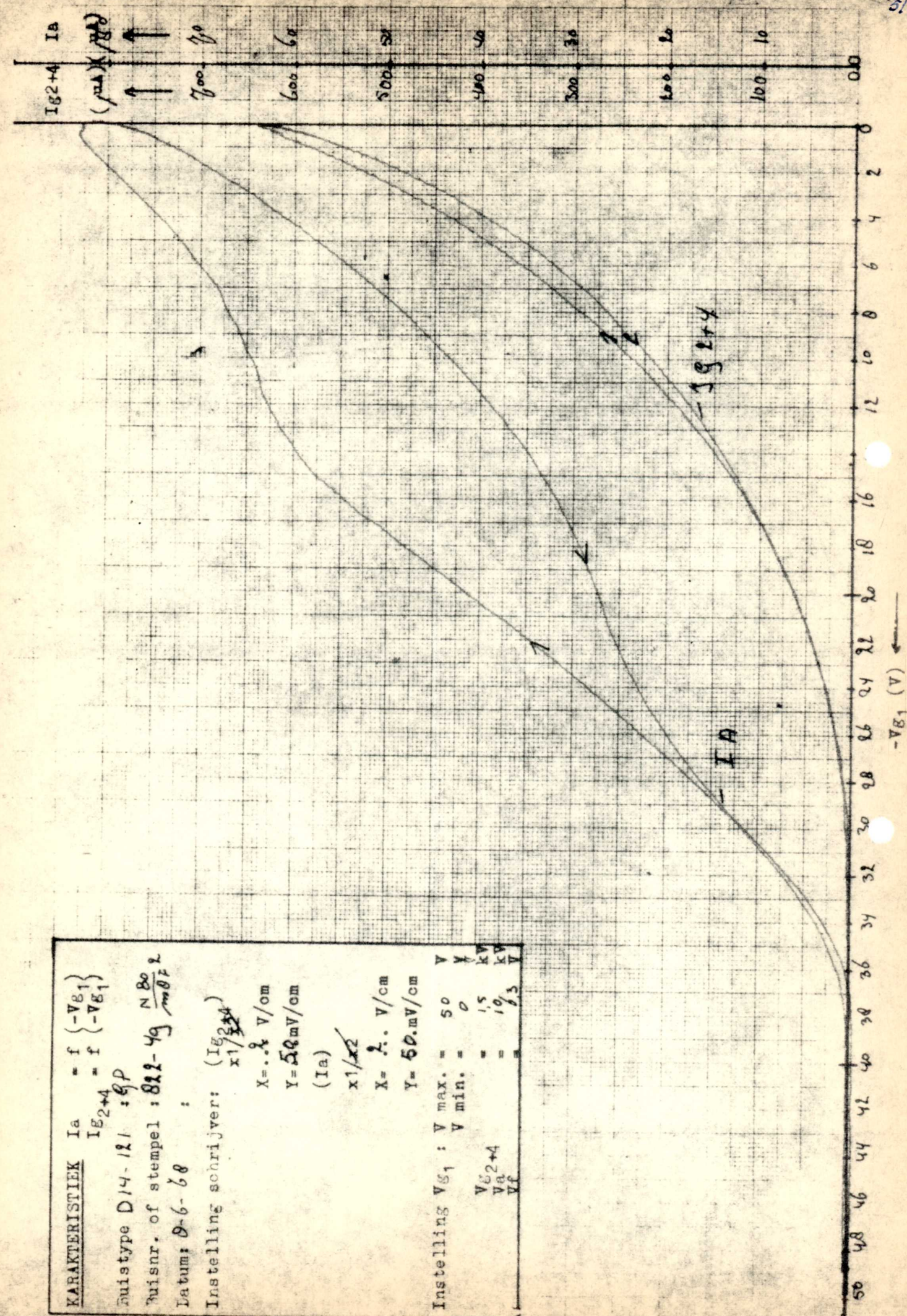


15

KARAKTERISTIEK $I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$
 Hulstype D14-121 : 9P
 Nuismr. of stempel : 822-48 $\frac{NB0}{mBF}$
 Datum: 8-6-68
 Instelling schrijver: (I_{G2+4})
 $X = 1. V/cm$
 $Y = 50 mV/cm$
 (I_a)
 $X1/x2 = 1. V/cm$
 $Y = 92. mV/cm$
 Instelling V_{G1} : $V_{max.} = 50$ V
 $V_{min.} = 0$ V
 V_{G2+4} : $V_{max.} = 15$ kV
 $V_{min.} = 10$ kV
 $V_f = 2.5$ V



KARAKTERISTIEK $I_a = f(-V_{G1})$
 $I_{G2+4} = f(-V_{G1})$
 Hulstype D14-121 : 9P
 Nuismr. of stempel : 822-49 $\frac{NB0}{mBF}$
 Datum: 8-6-68
 Instelling schrijver: (I_{G2+4})
 $X = 1. V/cm$
 $Y = 50 mV/cm$
 (I_a)
 $X1/x2 = 1. V/cm$
 $Y = 50. mV/cm$
 Instelling V_{G1} : $V_{max.} = 50$ V
 $V_{min.} = 0$ V
 V_{G2+4} : $V_{max.} = 15$ kV
 $V_{min.} = 10.5$ kV
 $V_f = 2.5$ V



15

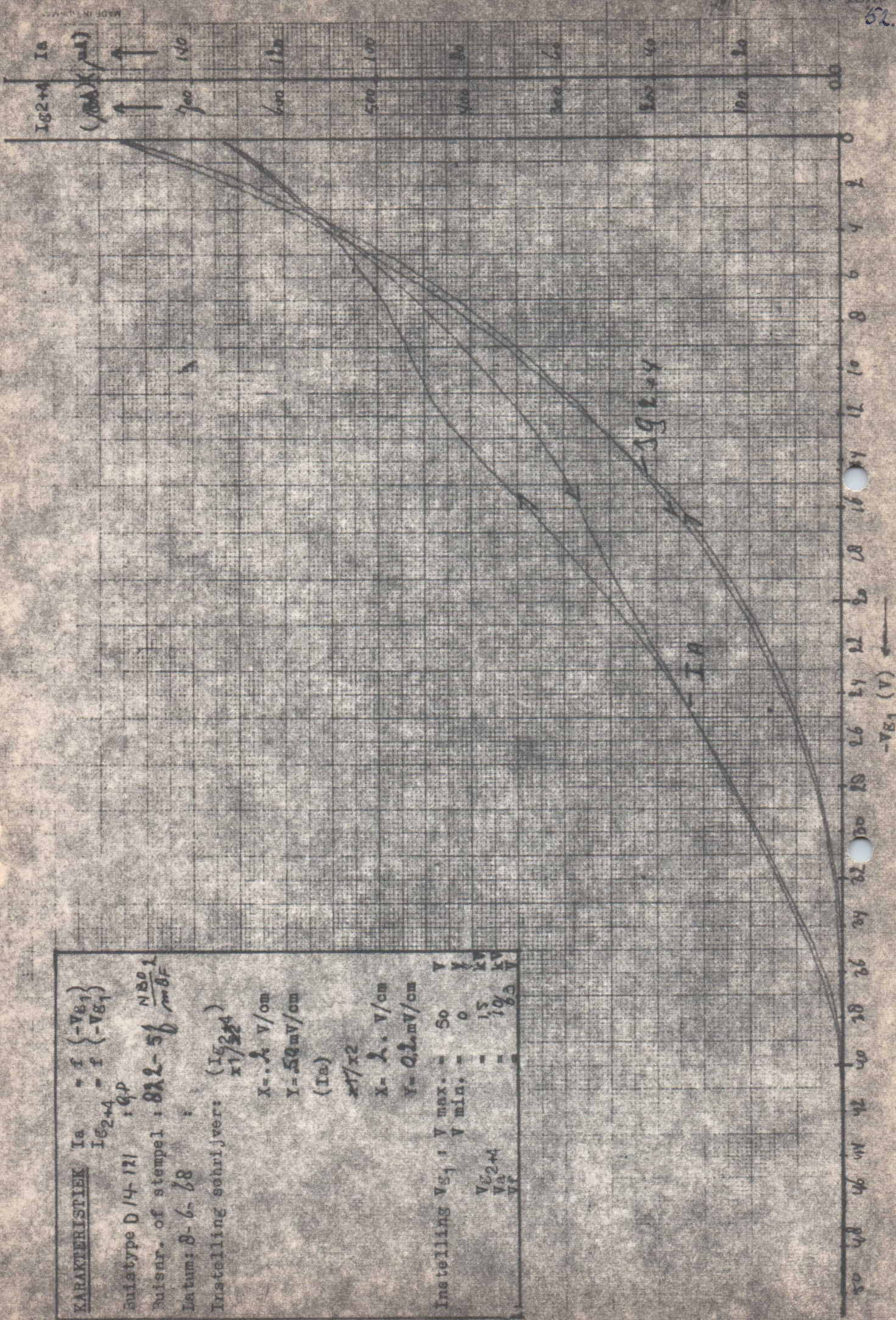
KARAKTERISTIEK

$I_a = f(-V_{g1})$
 $I_{g2+4} = f(-V_{g1})$
 autotype D 14-111 : 9P
 Pulsnr. of stempel : 822-56 $\frac{MBO1}{mDF}$
 Datum: 8-6-68

Instelling schrijver: (I_{g2+4})
 $x1/324$

$X = 2 \text{ V/cm}$
 $Y = 50 \text{ mV/cm}$
 (Ia)
 $x1/x2$
 $X = 2 \text{ V/cm}$
 $Y = 0.2 \text{ mV/cm}$

Instelling V_{g1} : V max. = 50 V
 V min. = 0 V
 V_{g2+4} : = 15 KV
 = 10 KV



D14-120
D14-121

Y-deflectie factor = f (deflectie)

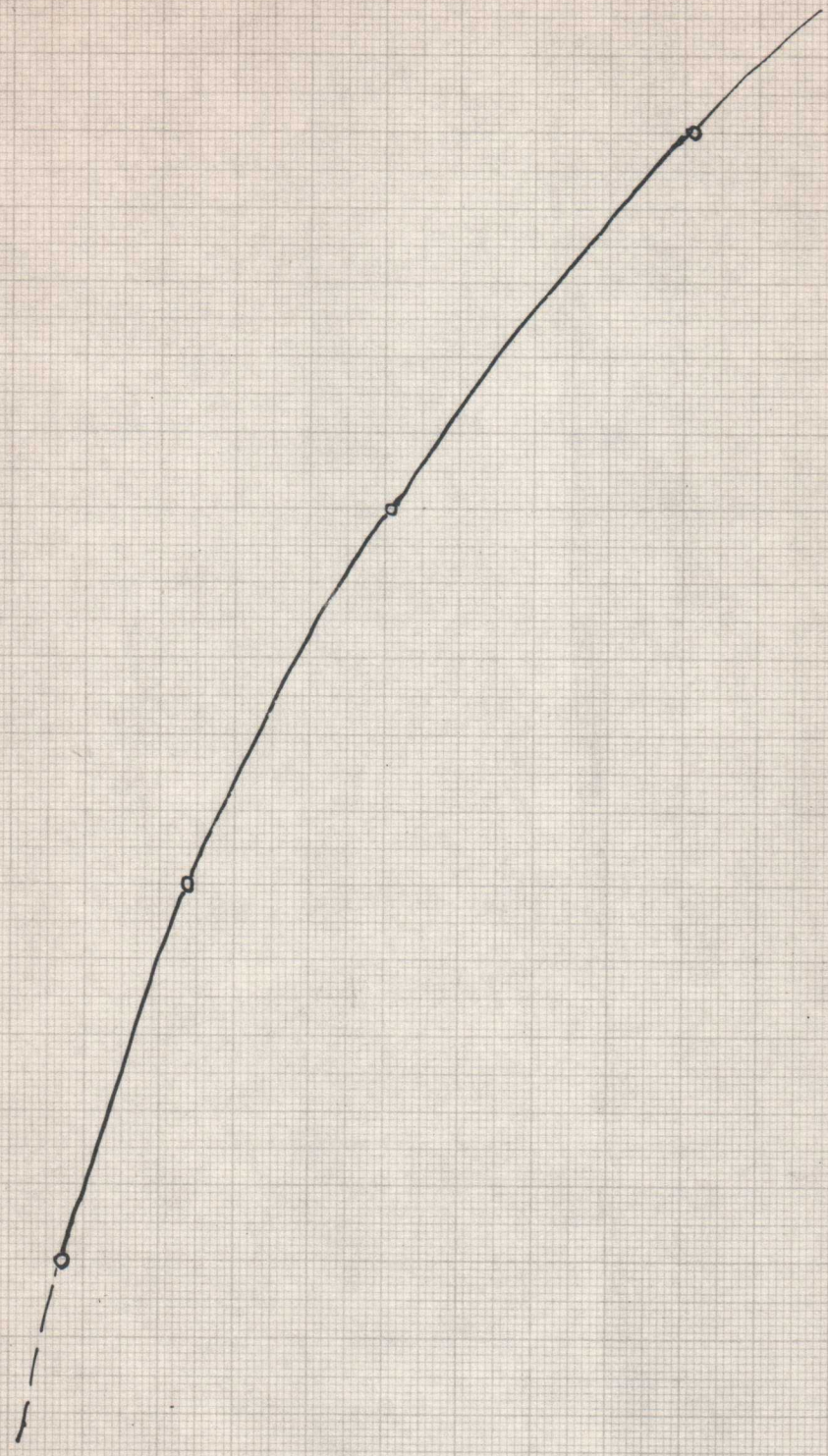
4,3

defl. factor
(V/cm)

4,2

4,1

4,0



23-0-70
fw

deflectie (mm)

40

20

10

0

54
55

X-deflectiefactor = f(deflectie)

D14-120..
D14-121..

15,5
15,4
15,3
15,2
15,1
15,0
0

defl.
factor
(V/cm)

deflectie (mm)³⁰

40

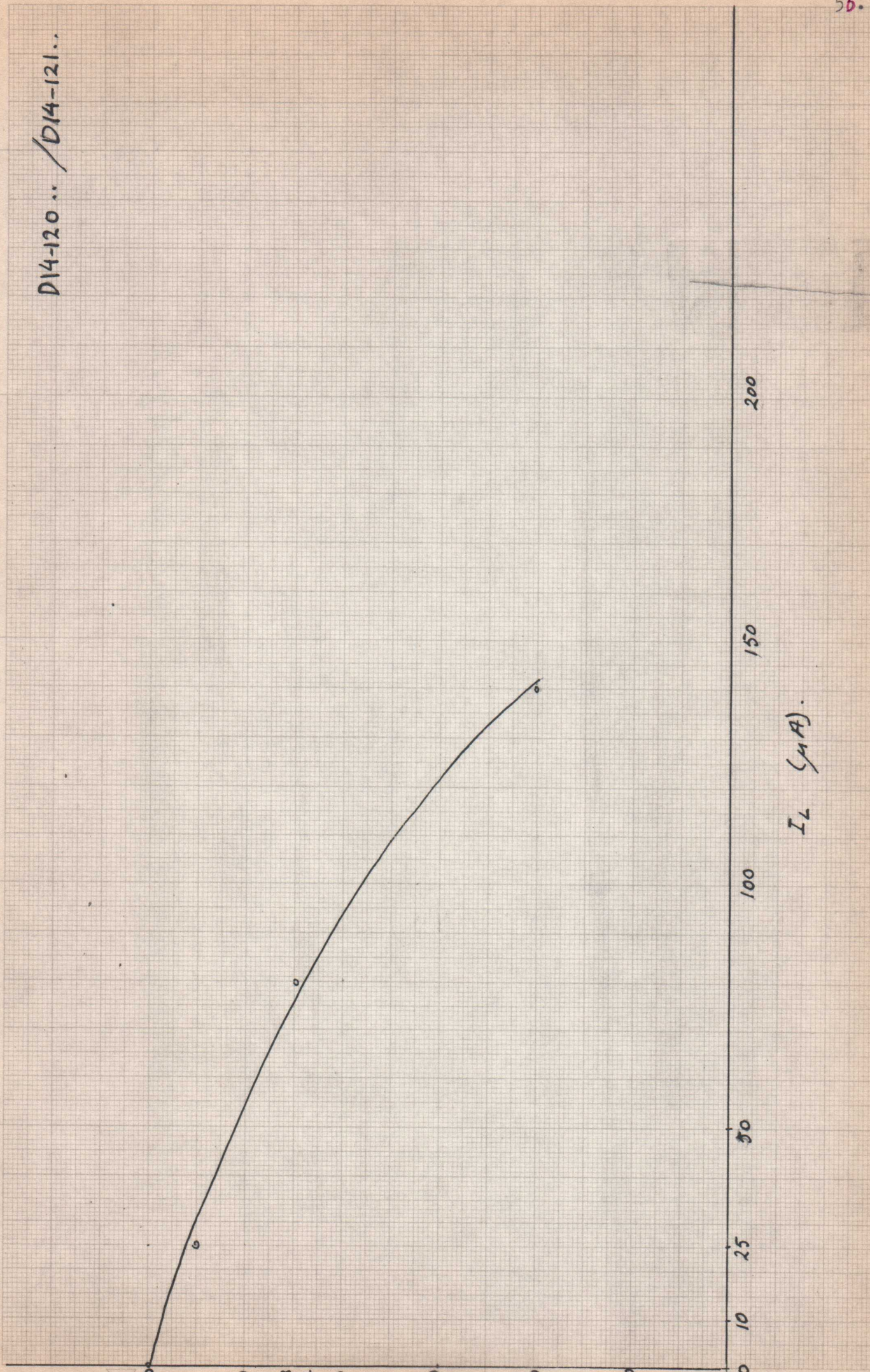
50

2.3-0-61

fw

58

D14-120... / D14-121..



Druktest D14-120/D14-121,

d.d. 9.8.1968 op de afdeling van de heer Koole.

De buis met de zwakste ballon is genomen n.l. de D14-121
(met zijkontakten).
2 stuks.

1. Geïmploedeerd bij 4.6 ata (drukverschil)
2. Goed gebleven gedurende 1 minuut bij 5 ata (drukverschil)

Eis:

Als eis wordt aangehouden de MIL test „methode 1141 Pressure”.
45 pounds per square inch gedurende 60 seconden (afgerond op
3.5 ata).

D14-12 Schok- en trilproef voor vrijgave

| 1) Voor schokken | -Vg1 | mod. | Excentr. | | focus | ast. | gaas- | losse delen | |
|---|------|------|----------|------|-------|------|-------|-------------|------------------------------|
| buisnr. | | -Vg1 | y | x | | | kw. | | |
| 822 - 39 | 34 | 15 | -1.1 | -0.8 | 304 | -8 | goed | | goed |
| 822 - 46 | 44 | 16 | 0 | 0 | 303 | +5 | " | | glasdeeltjes |
| 821 - 43 | 25 | 13 | +1.0 | -3.1 | 302 | -4 | " | | " |
| 2) Na schokken 50 g 3 kl. x richting 3 kl. y richting | | | | | | | | | |
| | | | | | | | | versch. | |
| | | | | | | | | exc. | |
| 822 - 39 | 33 | 13 | -1.4 | -1.0 | 303 | -6 | goed | 1.0 | goed |
| 822 - 46 | 43 | 14 | -0.1 | -1.0 | 303 | +2 | " | 1.0 | glasdeeltjes |
| 821 - 43 | 25 | 13 | +0.8 | -3.2 | 304 | -3 | " | 0.5 | " |
| 3) Na schokken 75 g 3 x x, 3 x y richting | | | | | | | | | |
| 822 - 39 | 35 | 14 | -1.5 | -1.1 | 303 | -6 | goed | 0.4 | goed |
| 822 - 46 | 43 | 14 | -1.2 | -1.2 | 304 | +1 | " | 0.5 | glasdeeltjes |
| 821 - 43 | 25 | 13 | +1.0 | -3.1 | 305 | -6 | " | 0.5 | " |
| 4) Na schokken 90 g 3 x x, 3 x y | | | | | | | | | |
| 822 - 39 | 36 | 14 | -1.5 | -1.1 | 305 | -5 | goed | 0.1 | glasdeeltje |
| 822 - 46 | 44 | 14 | -0.5 | -0.2 | 306 | +2 | " | 0.5 | glasdeeltjes |
| 821 - 43 | 25 | 13 | +1.2 | -3.5 | 305 | -8 | " | 0.5 | " |
| 5) Na schokken 125 g | | | | | | | | | |
| 822 - 39 | 35 | 14 | +0.5 | -3.5 | 303 | -9 | goed | 3.0 | glasschilfertje |
| 822 - 46 | 44 | 14 | -0.5 | -0.2 | 304 | -9 | " | 0 | glasdeeltjes |
| 821 - 43 | 26 | 13 | +1.0 | -4.0 | 305 | -3 | " | 0.5 | " + multiformdeeltjes |
| 6) Na trillen 5 min. 75 hz (resonantie) in y richting 0.5 mm. | | | | | | | | | |
| 822 - 39 | 34 | 13 | +0.5 | -3.5 | 303 | -4 | goed | 0 | glasschilfertjes |
| 822 - 46 | 43 | 14 | -1.0 | -0.2 | 303 | 0 | " | 0.5 | glasdeeltjes |
| Na trillen 2 min. 78 hz (resonantie) in x richting 0.5 mm. | | | | | | | | | |
| 822 - 39 | 37 | 14 | -0.2 | -3.2 | 303 | -5 | goed | 0.8 | glasschilfertje ^x |
| 822 - 46 | 44 | 14 | -0.6 | -0.7 | 303 | +1 | " | 0.6 | glasdeeltjes |

Schokken goed t/m 75 g.

x
+ lasballetje + centreer-
veren omgebogen door trillen

gemeten d.d. 12.8.'68.

| FVAR | INSTELLING - AJUSTEMENT EINSTELLUNG - ADJUSTMENT | | | | | | | EIS - EXIGENCE ANFORDERUNG - LIMIT | | (T) | (T) | |
|------|---|-----------|-----------|-----------|------------|----------|--------------|---------------------------------------|-------------------|---|------------------------------------|-------|
| | Vf V= | Vg2 V= | Vg3 V= | Vg1 V= | VX V= | VY V= | Ig2g4 /uA | | Eenhed Unit | Schema Schaltung Diagramme Circuit | Omerkingen Remarques Remarks | |
| 1 | Voorverwarmen | 7 | | | | | | | 3 | min | | |
| 2 | Gas | 6,3 | 350 | -15 | inst | | 50 | | ≤ 45 | m/uA | A3 | |
| 3 | Voorverwarmen | 7 | | | | | | | 3 | min | | |
| 4 | Isolatie +k/-f | 7 | | | Visol=150V | | | | ≤ 45 | /uA | A2 | 1 |
| 5 | -k/+f | 7 | | | Visol=150V | | | | ≤ 45 | /uA | A2 | 1 |
| 6 | +kfg1g5 -g3g4g2g6XY | 7 | | | Visol=300V | | | | ≤ 3 | /uA | A2 | 2 |
| 7 | +kfg1g4g2X -g3g5g6Y | 7 | | | Visol=300V | | | | ≤ 3 | /uA | A2 | 2 |
| 8 | +kfg1g3X -g2g4g5g6Y | 7 | | | Visol=300V | | | | ≤ 3 | /uA | A2 | 2 |
| 9 | +kfg5Y -g1g2g4g3g6X | 7 | | | Visol=300V | | | | ≤ 9 | /uA | A2 | 2 |
| | | Vf | Vg2g4 | Vg7 | Vg3 | Vg1 | VY | VX | Ig7 | Ik | | |
| | | V= | kV= | kV= | V= | V= | V= | V= | /uA= | /uA= | | |
| 10 | Voorverwarmen | 7 | | | | | | | | 3 | min | |
| 11 | Overspanning g2+g4 | 6,3 | 1,8 | 11 | foc inst | raster | | 100 | (T) opm. 21 | | A1 | 3 |
| 12 | Gaskruis | 6,3 | 1,5 | 10 | foc inst | raster | | 100 | Geen gaskruis | | A1 | 3-11 |
| 13 | Schermkwal. | 6,3 | 1,5 | 10 | foc inst | raster | | 2 | zie RV-6-4-57/410 | | A1 | |
| 14 | Helderheid BE | 6,3 | 1,5 | 10 | foc inst | raster | | 5 | | | A1 | 3-9 |
| | GH | | | | | 40x40 | | | ≥ 25 | mc/cm² | | |
| | GP | | | | | | | | | | | |
| | GM | | | | | | | | | | | |
| 15 | Blinde str.str. | 6,3 | 1,5 | 10 | foc afk | raster | | af1 | ≤ 8 | /uA | A1 | 3-7 |
| 16 | Mod. Vg1 | 6,3 | 1,5 | 10 | foc inst | raster | 15 | | ≤ 16 | V | A1 | 27 |
| 17 | -Vg1 | 6,3 | 1,5 | 10 | foc af1 | cirkel | CJZ | | 20-57 | V | A1 | 3 |
| 18 | Hoek der lijnen | 6,3 | 1,5 | 10 | foc inst | lijnlijn | LJZ | | 89-91 | ° | A1 | |
| 19 | Rastervervorming | 6,3 | 1,5 | 10 | foc inst | lijnlijn | LJZ | | 75x95-73,6-93 | mm | A1 | 13-41 |
| 20 | Ton/kussen g6 | 6,3 | 1,5 | 10 | foc inst | lijnlijn | LJZ | | -13/0 | V | A1 | 13-17 |
| 21 | Aansluiting | 6,3 | 1,5 | 10 | foc inst | 0/120 | 0/120 PJZ | | (T) opm. 20 | | A1 | 11 |

★ WIJZIGINGEN - ANDERUNG - MODIFICATIONS - ALTERATION

(T) ZIE - SIEHE - VOIR - SEE RV-6-4-0/403

| | | | | | | | |
|---------------------|----------|------------------|--|----------|--------|------------|-----------|
| DATE | 15.10.68 | | | | PAR : | BLADEN : | BLAD : |
| DATE | | | | | PAR : | BLÄTTER : | BLATT : |
| | | | | | PAR : | FEUILLES : | FEUILLE : |
| | | | | | SIGN : | SHEETS : | SHEET : |
| CONTROLE - CONTROLE | | KONTROLLE - TEST | | CODE Nr. | | D14-120 | |
| | | | | F | | | |
| | | | | TYPE | | | |

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| | INSTELLING - AJUSTEMENT EINSTELLUNG - ADJUSTMENT | | | | | | | | EIS - EXIGENCE ANFORDERUNG - LIMIT | | | Schema Schaltung Diagramme Circuit | Opmerkingen Remarques Remarks |
|--|---|------|-----|-----|------|--------|--------|-----|---------------------------------------|-----------------|-----------------------------------|---|-------------------------------------|
| | Vf | Vg2 | Vg7 | Vg3 | Vg1 | VY | VX | Ig7 | Ik | Einheit Unit | Schaltung Diagramme Circuit | | |
| | V= | kV= | kV= | V= | V= | V= | V= | μA | μA | | | | |
| 22 Defl.fakt. Y | 6,3 | 1,5 | 10 | foc | inst | afl | 0 | 2 | | 4-4,5 | V/cm | A1 | 15-23 |
| 23 Defl.fakt. X | 6,3 | 1,5 | 10 | foc | inst | 0 | afl | 2 | | 14,7 - 16,3 | V/cm | A1 | 15-23 |
| 24 Focusspanning | 6,3 | 1,5 | 10 | afl | inst | cirkel | | CJZ | | 270 - 330 | V | A1 | 3-17 |
| 25 Astigm.corr. | 6,3 | 1,5 | 10 | foc | inst | cirkel | | CJZ | | +45/-45 | V | A1 | 3-28 |
| 26 Uitsturing Y | 6,3 | 1,5 | 10 | foc | inst | raster | | 2 | | ≥ 40 | mm | A1 | 15-17 31-35 69 |
| 27 Uitsturing X | 6,3 | 1,5 | 10 | foc | inst | raster | | 2 | | ≥ 50 | mm | A1 | 13-17 29-31 35 |
| 28 Overspanning g7 | 6,3 | 1,65 | 11 | foc | inst | raster | | 100 | (T) opm. 21 | | | A1 | 3 |
| 29 Strooistralen | 6,3 | 1,65 | 11 | foc | inst | 0/lijn | | LJZ | | geen strooistr. | | A1 | 3-8 |
| 30 Hoek X lijn t.o.v.scherm | 6,3 | 1,5 | 10 | foc | inst | 0 | lijn | LJZ | | ≤ 5 | ° | A1 | 12 |
| 31 Hoekverdr.corr. na versn.contact | 6,3 | 1,5 | 10 | foc | inst | 0 | lijn | LJZ | | ≤ 9 | ° | A1 | 36 |
| 32 Lengte zonder stengel | | | | | | | | | | 356-364 | mm | A1 | |
| 33 Lengtestengel | | | | | | | | | | ≤ 18,5 | mm | A1 | |
| 34 Uiterlijke controle | | | | | | | | | | | | | |
| 35 Gaaskwaliteit | 6,3 | 1,5 | 10 | foc | inst | lijn | raster | 5 | | | | A1 | 68 |

* WIJZIGINGEN - ÄNDERUNG - MODIFICATIONS - ALTERATION

(I) IE - SIEHE - VOIR - SEE RV-6-4-0/403

| | | | | | | | |
|---------------------|----------|--|--|----------|--------|------------|-----------|
| DAT. | 15.10.68 | | | | PAR : | BLADEN : | BLAD : |
| DATE. | | | | | PAR : | BLÄTTER : | BLATT : |
| | | | | | PAR : | FEUILLES : | FEUILLE : |
| | | | | | SIGN : | SHEETS : | SHEET : |
| CONTROLE - CONTROLE | | | | CODE Nr. | | D14-120 | |
| KONTROLLE - TEST | | | | F | | 361-2 | |
| | | | | TYPE | | | |

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| FVAR | INSTELLING - AJUSTEMENT EINSTELLUNG - ADJUSTMENT | | | | | | | EIS - EXIGENCE ANFORDERUNG - LIMIT | | (T) | (T) |
|--------------------------|---|-------|-----|-------------|----------|----|-----------|---------------------------------------|------------------|---|---------------------------------------|
| | Vf | Vg2g4 | Vg3 | Vg1 | VX | VY | Ig2g4 | | Einheit Unit | Schema Schaltung Diagramme Circuit | Opmerkingen Bemerkungen Remarks |
| | V= | V= | V= | V= | V= | V= | /uA | | | | |
| 1 Voorverwarmen | 7 | | | | | | | | 3 | min | |
| 2 Gas | 6,3 | 350 | -15 | inst | | | 50 | | ≤ 45 | m/uA | A3 |
| 3 Voorverwarmen | 7 | | | | | | | | 3 | min | |
| 4 Isolatie +k/-f | 7 | | | V isol=150V | | | | | ≤ 50 | /uA | A2 1 |
| 5 -k/+f | 7 | | | V isol=150V | | | | | ≤ 50 | /uA | A2 1 |
| 6 +kfg1g5 -g3g4g2g6XY | 7 | | | V isol=300V | | | | | ≤ 4 | /uA | A2 2 |
| 7 +kfg1g4g2X -g3g5g6Y | 7 | | | V isol=300V | | | | | ≤ 4 | /uA | A2 2 |
| 8 +kfg1g3X -g2g4g5g6Y | 7 | | | V isol=300V | | | | | ≤ 4 | /uA | A2 2 |
| 9 +kfg5Y -g1g2g4g3g6X | 7 | | | V isol=300V | | | | | ≤ 10 | /uA | A2 2 |
| | Vf | Vg2g4 | Vg7 | Vg3 | Vg1 | VY | VX | Ig7 | Ik | | |
| | V= | kV= | kV= | V= | V= | V= | V= | /uA | /uA | | |
| 10 Voorverwarmen | 7 | | | | | | | | | 3 | min |
| 11 Overspanning g2-g4 | 6,3 | 1,8 | 11 | foc inst | raster | | | 100 | (T) opm. 21 | | A1 3 |
| 12 Gaskruis | 6,3 | 1,5 | 10 | foc inst | raster | | | 100 | Geen gaskruis | | A1 3-11 |
| 13 Schermkwal. | 6,3 | 1,5 | 10 | foc inst | raster | | 2 | | zie RV-6-457/410 | | A1 |
| 14 Helderheid BE | 6,3 | 1,5 | 10 | foc inst | raster | | 5 | | | | A1 3-9 |
| | | | | | 40x40 | | | | | | |
| | | | | | | | | | ≥ 25 | mcd/cm² | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 15 Blinde str.str. | 6,3 | 1,5 | 10 | foc afkn | raster | | | af1 | ≤ 10 | /uA | A1 3-7 |
| 16 Mod. Vg1 | 6,3 | 1,5 | 10 | foc inst | raster | | 15 | | ≤ 17 | V | A1 27 |
| | | | | | 60x80 | | | | | | |
| 17 -Vg1 | 6,3 | 1,5 | 10 | foc af1 | cirkel | | CJZ | | 19 - 58 | V | A1 3 |
| | | | | | 35 ø | | | | | | |
| 18 Hoek der Lijnen | 6,3 | 1,5 | 10 | foc inst | lijnlijn | | LJZ | | 89-91 | ° | A1 |
| 19 Rastervervorming | 6,3 | 1,5 | 10 | foc inst | lijnlijn | | LJZ | | 75x95-73,6x93 | mm | A1 15-41 |
| 20 Ton.kussen g6 | 6,3 | 1,5 | 10 | foc inst | lijnlijn | | LJZ | | -14/0 | V | A1 |
| 21 Aansluiting | 6,3 | 1,5 | 10 | foc inst | 0/120 | | 0/120 PJZ | | (T) opm. 20 | | A1 11 |

★ WIJZIGINGEN - ÄNDERUNG - MODIFICATIONS - ALTERATION (T) IE - SIEHE - VOIR - SEE RV-6-4-0/403

| | | | | | | | |
|---|----------|--|--|----------|-----------------------------------|---|---|
| DAT. DATE. | 15.10.68 | | | | PAR : PAR : PAR : SIGN : | BLADEN : BLATTES : FEUILLES : SHEETS : 2 | BLAD : BLATT : FEUILLE : SHEET : 366-1 |
| CONTROLE - CONTROLE KONTROLLE - TEST | II | | | CODE Nr. | D14-120 | | |
| N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND. | | | | | | | |

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| FVAR | INSTELLING - AJUSTEMENT EINSTELLUNG - ADJUSTMENT | | | | | | | | EIS - EXIGENCE (T) ANFORDERUNG - LIMIT | | | (T) | (T) |
|-------------------------------------|---|------|-----|-----|------|--------|--------|------|---|----------------|-----------|---------|----------------------|
| | Vf | Vg2 | Vg7 | Vg3 | Vg1 | VY | VX | Ig7 | Ik | Einheit | Schaltung | | |
| | V= | kV= | kV= | V= | V= | V= | V= | /uA= | /uA= | Unit | Unit | Circuit | Bemerkungen |
| 22 Defl.fakt. Y | 6,3 | 1,5 | 10 | foc | inst | afl | 0 | 2 | | 3,95 - 4,55 | Vcm | A1 | 15-23 |
| 23 Defl.fakt. X | 6,3 | 1,5 | 10 | foc | inst | 0 | afl | 2 | | 14,6 - 16,4 | Vcm | A1 | 15-23 |
| 24 Focusspanning | 6,3 | 1,5 | 10 | afl | inst | cirkel | | CJZ | | 265 - 335 | V | A1 | 3-17 |
| 25 Astigm.corr. | 6,3 | 1,5 | 10 | foc | inst | cirkel | | CJZ | | + 46/ -46 | V | A1 | 3-28 |
| 26 Uitsturing Y | 6,3 | 1,5 | 10 | foc | inst | raster | | 2 | | ≥ 40 | mm | A1 | 13-17 31-35 69 |
| 27 Uitsturing X | 6,3 | 1,5 | 10 | foc | inst | raster | | 2 | | ≥ 50 | mm | A1 | 13-17 28-31 35 |
| 28 Overspanning g7 | 6,3 | 1,65 | 11 | foc | inst | raster | | 100 | (T) opm. 21 | | | A1 | 3 |
| 29 Strooistralen | 6,3 | 1,65 | 11 | foc | inst | 0 | lijn | LJZ | | geen stroostr. | | A1 | 3-8 |
| 30 Hoek X lijn t.o.v. scherm | 6,3 | 1,5 | 10 | foc | inst | 0 | lijn | LJZ | | = 5 | ° | A1 | 12 |
| 31 Hoekverdr.corr. na vacu. contact | 6,3 | 1,5 | 10 | foc | inst | 0 | lijn | LJZ | | = 9,5 | ° | A1 | 36 |
| 32 Lengte zonder stengel | | | | | | | | | | 356-364 | mm | A1 | |
| 33 Lengte stengel | | | | | | | | | | ≤ 18,5 | mm | | |
| 34 Uiterlijke controle | | | | | | | | | | | | | |
| 35 Gaaskwaliteit | 6,3 | 1,5 | 10 | foc | inst | lijn | raster | 5 | | | | A1 | 68 |

* WIJZIGINGEN - ÄNDERUNG - MODIFICATIONS - ALTERATION

(T) ZIE - SIEHE - VOIR - SEE RV-6-4-0/403

| | | | | | |
|---|----------|--------------------------|---|---|-------|
| DAT. DATE: | 15.10.68 | PAR : PAR : SIGN : | BLADEN : BLATTER : FEUILLES : SHEETS : | BLAD : BLATT : FEUILLE : SHEET : | 366-2 |
| CONTROLE - CONTROLE KONTROLLE - TEST | II | | CODE Nr. | D14-120 | |
| N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND. | | | | | |

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| FVAR | INSTELLING - AJUSTEMENT EINSTELLUNG - ADJUSTMENT | | | | | | | EIS - EXIGENCE ANFORDERUNG - LIMIT | | (T) | (T) | |
|------|---|-------|-------|-----|----------------------|-----|-------|---------------------------------------|------------------|------------------------|---------------------------|-------|
| | Vf | Vg2g4 | Vg3 | Vg1 | VX | VY | Ig2g4 | | Einheit Unit | Schaltung Diagramme | Omerkingen Bemerkungen | |
| | V= | V= | V= | V= | V= | V= | /uA | | | | Remarks | |
| 1 | Voorverwarmen | 7 | | | | | | | 3 | min | | |
| 2 | Gas | 6,3 | 350 | -15 | inst | | 50 | | ≤ 45 | m/uA | A3 | |
| 3 | Voorverwarmen | 7 | | | | | | | 3 | min | | |
| 4 | Isolatie +k/-f | 7 | | | V isol=150V | | | | ≤ 45 | /uA | A2 | 1 |
| 5 | -k/+f | 7 | | | V isol=150V | | | | ≤ 45 | /uA | A2 | 1 |
| 6 | +kfg1g5 -g3g4g2g6XY | 7 | | | V isol=300V | | | | ≤ 3 | /uA | A2 | 2 |
| 7 | +kfg1g4g2X -g3g5g6Y | 7 | | | V isol=300V | | | | ≤ 3 | /uA | A2 | 2 |
| 8 | +kfg1g3X -g2g4g5g6Y | 7 | | | V isol=300V | | | | ≤ 3 | /uA | A2 | 2 |
| 9 | +kfg5Y -g1g2g4g3g6X | 7 | | | V isol=300V | | | | ≤ 9 | /uA | A2 | 2 |
| | | Vf | Vg2g4 | Vg8 | Vg3 | Vg1 | VY | VX | Ig8 | IK | | |
| | | V= | kV= | kV= | V= | V= | V= | V= | /uA= | /uA= | | |
| 10 | Voorverwarmen | 7 | | | | | | | 3 | min | | |
| 11 | Overspanning g2+g4 | 6,3 | 1,8 | 11 | foc inst raster | | | 100 | (T) opm. 21 | | A1 | 3 |
| 12 | Gaskruis | 6,3 | 1,5 | 10 | foc inst raster | | | 100 | Geen gaskruis | | A1 | 3-11 |
| 13 | Schermkwal. | 6,3 | 1,5 | 10 | foc inst raster | | 2 | | zie RV-6-457/410 | | A1 | |
| 14 | Helderheid BE | 6,3 | 1,5 | 10 | foc inst raster | | 5 | | | | A1 | 3-9 |
| | GH | | | | 40x40 | | | | ≥ 25 | med-sm ² | | |
| | GP | | | | | | | | | | | |
| | GM | | | | | | | | | | | |
| 15 | Blinde str.str. | 6,3 | 1,5 | 10 | foc afkn raster | | | af1 | ≤ 8 | /uA | A1 | 3-7 |
| | | | | | 60x80 | | | | | | | |
| 16 | Mod. Vg1 | 6,3 | 1,5 | 10 | foc inst raster | | 15 | | ≤ 16 | V | A1 | 27 |
| | | | | | 60x80 | | | | | | | |
| 17 | -Vg1 | 6,3 | 1,5 | 10 | foc afl cirkel | | CJZ | | 20-57 | V | A1 | 3 |
| | | | | | 356 | | | | | | | |
| 18 | Hoek der lijnen | 6,3 | 1,5 | 10 | foc inst lijn lijn | | LJZ | | 89-91 | ° | A1 | |
| 19 | Rastervervorming | 6,3 | 1,5 | 10 | foc inst lijn lijn | | LJZ | | 75-95- 73,6x93 | mm | A1 | 13-41 |
| 20 | Ton.kussen g7 g6= 10V | 6,3 | 1,5 | 10 | foc inst lijn lijn | | LJZ | | +95/-95 | V | A1 | 13-41 |
| 21 | Aansluiting | 6,3 | 1,5 | 10 | foc inst 0/120 0/120 | | PJZ | | (T) opm. 20 | | A1 | 11 |

★ WIJZIGINGEN - ANDERUNG - MODIFICATIONS - ALTERATION

(T) ZIE - SIEHE - VOIR - SEE RV-6-4-0/403

| | | | | |
|---------------------|----------|----------|------------|-----------|
| DAT. | 15.10.68 | PAR : | BLADEN : | BLAD : |
| DATE. | | PAR : | BLÄTTER : | BLATT : |
| | | PAR : | FEUILLES : | FEUILLE : |
| | | SIGN : | SHEETS : | SHEET : |
| CONTROLE - CONTROLE | | CODE Nr. | D14-121 | |
| KONTROLLE - TEST | | TYPE | | |



| | INSTELLING - AJUSTEMENT EINSTELLUNG - ADJUSTMENT | | | | | | | | | EIS - EXIGENCE ANFORDERUNG - LIMIT | | (T) | (T) |
|----|---|-------|------|-----|----------|------------|----|------------|-----|---------------------------------------|-----------------------------------|--------------------------|----------------------|
| | Vf | Vg2g4 | Vg8 | Vg3 | Vg1 | VY | VX | Ig8 | Ik | Einheit Unit | Schaltung Diagramme Circuit | Opmerkingen Remarques | Remarks |
| | V= | kV= | kV= | V= | V= | V= | V= | /uA | /uA | | | | |
| 22 | Defl.fakt. Y | 6,3 | 1,5 | 10 | focinst | afl | 0 | 2 | | 4-4,5 | Vcm | A1 | 15-23 |
| 23 | Defl.fakt. X | 6,3 | 1,5 | 10 | focinst | afl | 0 | 2 | | 14,7-16,3 | Vcm | A1 | 15-23 |
| 24 | Focusspanning | 6,3 | 1,5 | 10 | afl inst | cirkel | | CJZ | | 270-330 | V | A1 | 3-17 |
| 25 | Astigm.corr. | 6,3 | 1,5 | 10 | foc inst | cirkel | | CJZ | | +45/-45 | V | A1 | 3-28 |
| 26 | Uitsturing Y | 6,3 | 1,5 | 10 | foc inst | rastraster | | 2 | | ≥ 40 | mm | A1 | 13-17 31-35 69 |
| 27 | Uitsturing X | 6,3 | 1,5 | 10 | foc inst | rastraster | | 2 | | ≥ 50 | mm | A1 | 13-17 29-31 35 |
| 28 | Overspanning g8 | 6,3 | 1,65 | 11 | foc inst | rastraster | | | 100 | (T) opm. 21 | | A1 | 3 |
| 29 | Strooistralen | 6,3 | 1,65 | 11 | foc inst | 0 lijn | | LJZ | | geen strooistr. | | A1 | 3-8 |
| 30 | Hoek X lijn t.o.v. scherm | 6,3 | 1,5 | 10 | foc inst | 0 lijn | | LJZ | | ≤ 5 | ° | A1 | 12 |
| 31 | Hoekverd.corr. na vers.contact | 6,3 | 1,5 | 10 | foc inst | 0 lijn | | LJZ | | ≤ 9 | ° | A1 | 36 |
| 32 | Lengte zonder stengel | | | | | | | | | 356-364 | mm | A1 | |
| 33 | Lengte stengel | | | | | | | | | ≤ 18,5 | mm | A1 | |
| 34 | Viterlijke controle | | | | | | | | | | | | |
| 35 | Gaaskwaliteit | 6,3 | 1,5 | 10 | foc inst | lijn | | rastraster | 5 | | | A1 | 68 |

★ WIJZIGINGEN - ANDERUNG - MODIFICATIONS - ALTERATION

(T) ZIE - SIEHE - VOIR - SEE RV-6-4-0/403

| | | | | |
|------------|----------|--------|------------|-----------|
| DAT. DATE: | 15.10.68 | PAR : | BLADEN : | BLAD : |
| | | PAR : | BLÄTTER : | BLATT : |
| | | PAR : | FEUILLES : | FEUILLE : |
| | | SIGN : | SHEETS : | SHEET : |

| | | | |
|---|----------|------------------|---------|
| CONTROLE - CONTROLE KONTROLLE - TEST | F | CODE Nr. TYPE | D14-121 |
|---|----------|------------------|---------|

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| | INSTELLING - AJUSTEMENT EINSTELLUNG - ADJUSTMENT | | | | | | | | EIS - EXIGENCE ANFORDERUNG - LIMIT | | (T) | (T) |
|-----------------------------|---|-------|-----|----------|-------------------------|----|-------|------|---------------------------------------|---|------------------------------------|-----|
| | Vf | Vg2g4 | Vg3 | Vg1 | VX | VY | Ig2g4 | | Einheit Unit | Schema Schaltung Diagramme Circuit | Omerkingen Remarques Remarks | |
| | V= | V= | V= | V= | V= | V= | /uA | | | | | |
| 1 Voorverwarmen | 7 | | | | | | | | 3 | min | | |
| 2 Gas | 6,3 | 350 | -15 | inst | | | 50 | | ≤ 45 | m/uA | A3 | |
| 3 Voorverwarmen | 7 | | | | | | | | 3 | min | | |
| 4 Isolatie +k/-f | 7 | | | | V isol=150V | | | | ≤ 50 | /uA | A2 1 | |
| 5 +k/+f | 7 | | | | V isol=150V | | | | ≤ 50 | /uA | A2 1 | |
| 6 +kfg1g5 -g3g4g2g6XY | 7 | | | | V isol=300V | | | | ≤ 4 | /uA | A2 2 | |
| 7 +kfg1g4g2X -g3g5g6Y | 7 | | | | V isol=300V | | | | ≤ 4 | /uA | A2 2 | |
| 8 +kfg1g3X -g2g4g5g6Y | 7 | | | | V isol=300V | | | | ≤ 4 | /uA | A2 2 | |
| 9 +kfg5Y -g1g2g4g3g6X | 7 | | | | V isol=300V | | | | ≤ 10 | /uA | A2 2 | |
| | Vf | Vg2g4 | Vg8 | Vg3 | Vg1 | VY | VX | Ig8 | Ik | | | |
| | V= | kV= | kV= | V= | V= | V= | V= | /uA= | /uA= | | | |
| 10 Voorverwarmen | 7 | | | | | | | | 3 | min | | |
| 11 Overspanning g2+g4 | 6,3 | 1,8 | 11 | foc inst | raster | | | 100 | (T) opm. 21 | | A1 3 | |
| 12 Gaskruis | 6,3 | 1,5 | 10 | foc inst | raster | | | 100 | Geen gaskruis | | A1 3-11 | |
| 13 Scherm.kwal. | 6,3 | 1,5 | 10 | foc inst | raster | 2 | | | zie RV-6-457/410 | | A1 | |
| 14 Helderheid BE | 6,3 | 1,5 | 10 | foc inst | raster | 5 | | | | | A1 3-9 | |
| | | | | | 40x40 | | | | ≥ 25 | mod cm ² | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 15 Blinde str.str. | 6,3 | 1,5 | 10 | foc a/c | raster | | | afl | ≤ 10 | /uA | A1 3-7 | |
| 16 Mod. Vg1 | 6,3 | 1,5 | 10 | foc inst | raster | | | 15 | ≤ 17 | /uA | A1 27 | |
| | | | | | 60x80 | | | | | | | |
| 17 -Vg1 | 6,3 | 1,5 | 10 | foc a/c | cirkel | | | CJZ | 19-58 | V | A1 3 | |
| | | | | | 356 | | | | | | | |
| 18 Hoek de lijnen | 6,3 | 1,5 | 10 | foc inst | lijnlijn | | | LJZ | 89-91 | ° | A1 | |
| 19 Rastervervorming | 6,3 | 1,5 | 10 | foc inst | lijnlijn | | | LJZ | 75x95-73,6x93 | mm | A1 13-41 | |
| 20 Ton.kussen g7 g6=-10V | 6,3 | 1,5 | 10 | foc inst | lijnlijn | | | LJZ | +95/-95 | V | A1 13-17 | |
| 21 Aansluiting | 6,3 | 1,5 | 10 | foc inst | 0/120 ⁰ /120 | | | PJZ | (T) opm. 20 | | A1 11 | |

★ WIJZIGINGEN - ÄNDERUNG - MODIFICATIONS - ALTERATION

(T) ZIE - SIEHE - VOIR - SEE RV-6-4-0/403

| | | | | | | | | | |
|---------------|----------|--|--|--|-----------------------------------|---|---|---|-------|
| DAT. DATE. | 15.10.68 | | | | PAR : PAR : PAR : SIGN : | BLADEN : BLÄTTER : FEUILLES : SHEETS : | 2 | BLAD : BLATT : FEUILLE : SHEET : | 366-1 |
|---------------|----------|--|--|--|-----------------------------------|---|---|---|-------|

| | | | |
|---|----|------------------|---------|
| CONTROLE - CONTROLE KONTROLLE - TEST | II | CODE Nr. TYPE | D14-121 |
|---|----|------------------|---------|

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| FVAR | INSTELLING - AJUSTEMENT EINSTELLUNG - ADJUSTMENT | | | | | | | | EIS - EXIGENCE ANFORDERUNG - LIMIT | | (T) | (T) | | |
|--------------------------------------|---|------|-----|-----|------|--------|--------|-----|---------------------------------------|------|-----------------|--------------------------------|-------------------------------------|----------------------|
| | Vf | Vg2 | Vg4 | Vg8 | Vg3 | Vg1 | VY | VX | Ig8 | Ik | Einheit Unit | Schema Diagramme Circuit | Opmerkingen Remarques Remarks | |
| | V= | kV= | kV= | V= | V= | V= | V= | V= | /uA= | /uA= | | | | |
| 22 Defl.fakt. Y | 6,3 | 1,5 | 10 | foc | inst | afl | 0 | 2 | | | 3,95-4,55 | Vcm | A1 | 15-23 |
| 23 Defl.fakt. X | 6,3 | 1,5 | 10 | foc | inst | 0 | afl | 2 | | | 14,6-16,4 | Vcm | A1 | 15-23 |
| 24 Focusspanning | 6,3 | 1,5 | 10 | afl | inst | cirkel | | | CJZ | | 265-335 | V | A1 | 3-17 |
| 25 Astigm.corr. | 6,3 | 1,5 | 10 | foc | inst | cirkel | | | CJZ | | +46/-46 | V | A1 | 3-28 |
| 26 Uitsturing Y | 6,3 | 1,5 | 10 | foc | inst | raster | | 2 | | | ≥ 40 | mm | A1 | 13-17 31-35 69 |
| 27 Uitsturing X | 6,3 | 1,5 | 10 | foc | inst | raster | | 2 | | | ≥ 50 | mm | A1 | 13-17 29-31 35 |
| 28 Overspanning g8 | 6,3 | 1,65 | 11 | foc | inst | raster | | | 100 | | (T) opm. 21 | | A1 | 3 |
| 29 Strooistralen | 6,3 | 1,65 | 11 | foc | inst | 0 | lijn | LJZ | | | geen strooistr. | | A1 | 3-8 |
| 30 Hoek X lijn t.o.v. scherm | 6,3 | 1,5 | 10 | foc | inst | 0 | lijn | LJZ | | | ≤ 5 | ° | A1 | 12 |
| 31 Hoekverdr. corr. naversn. contact | 6,3 | 1,5 | 10 | foc | inst | 0 | lijn | LJZ | | | ≤ 9,5 | ° | A1 | 36 |
| 32 Lengte zonder stengel | | | | | | | | | | | 356-364 | mm | A1 | |
| 33 Lengte stengel | | | | | | | | | | | ≤ 18,5 | mm | A1 | |
| 34 Interlijke controle | | | | | | | | | | | | | | |
| 35 Gaaskwaliteit | 6,3 | 1,5 | 10 | foc | inst | lijn | raster | 5 | | | | | A1 | 68 |

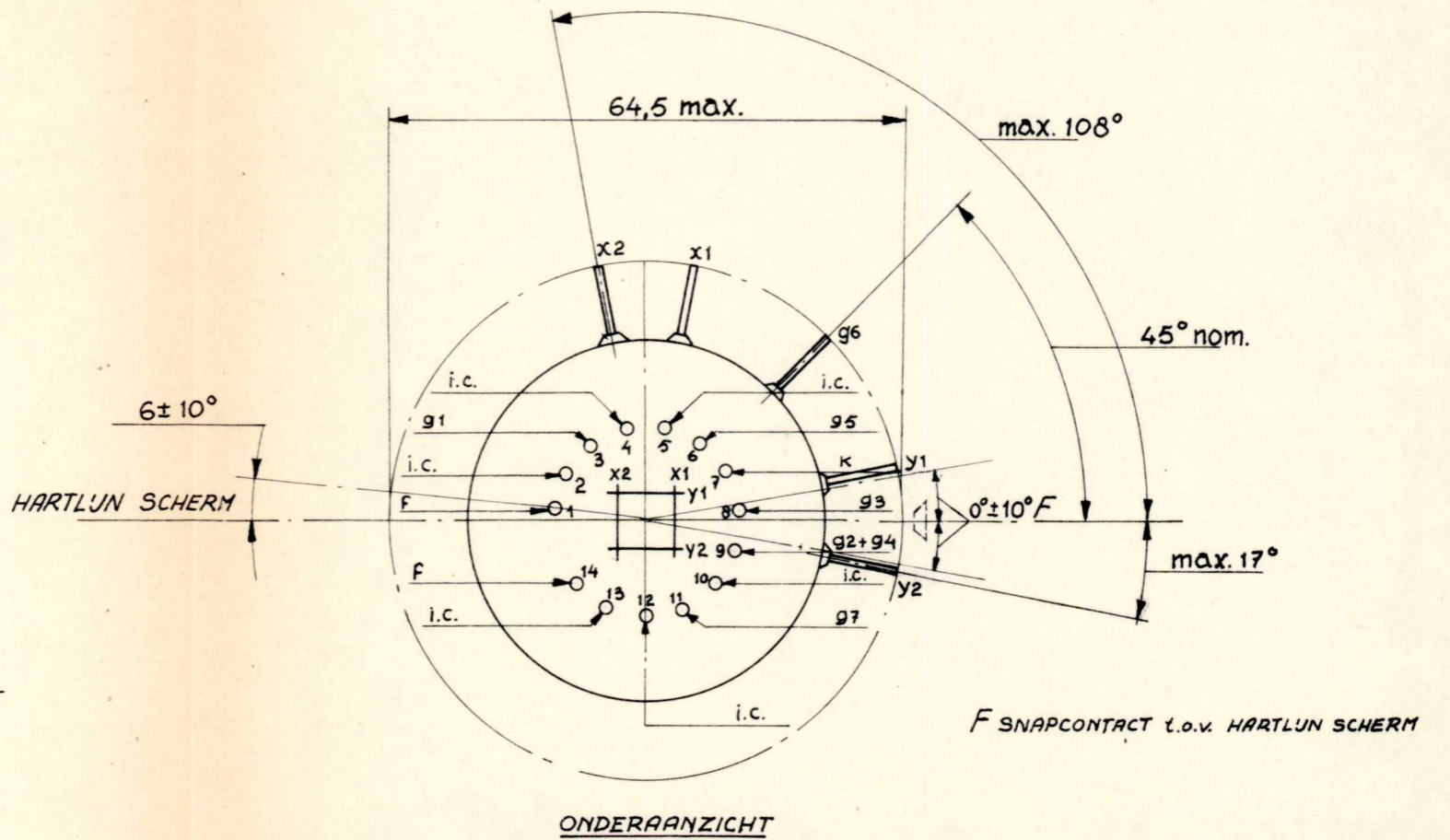
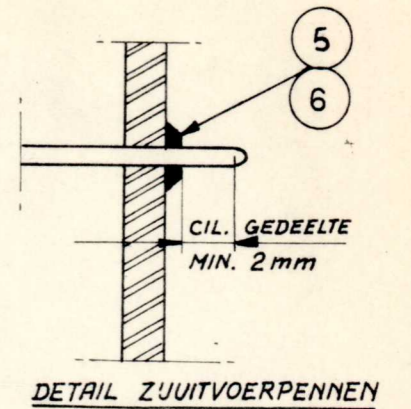
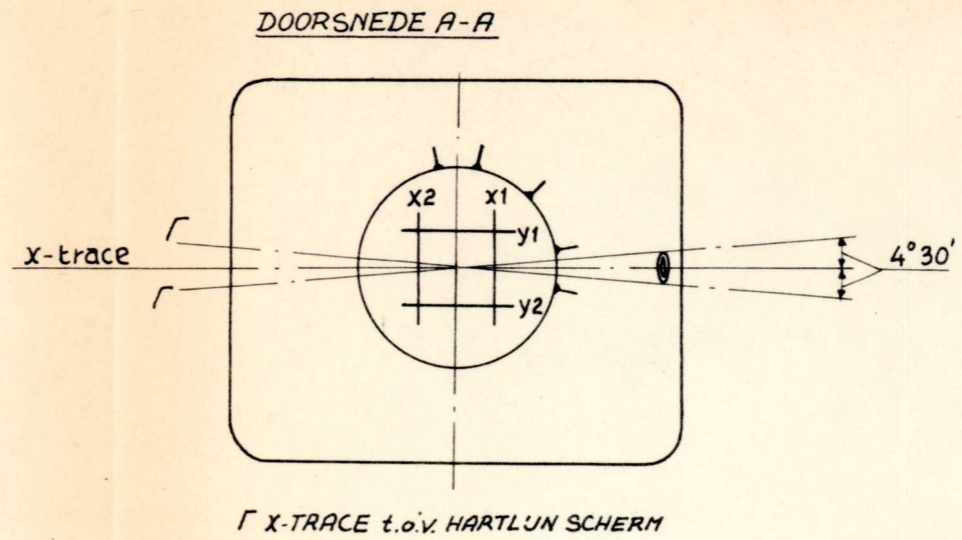
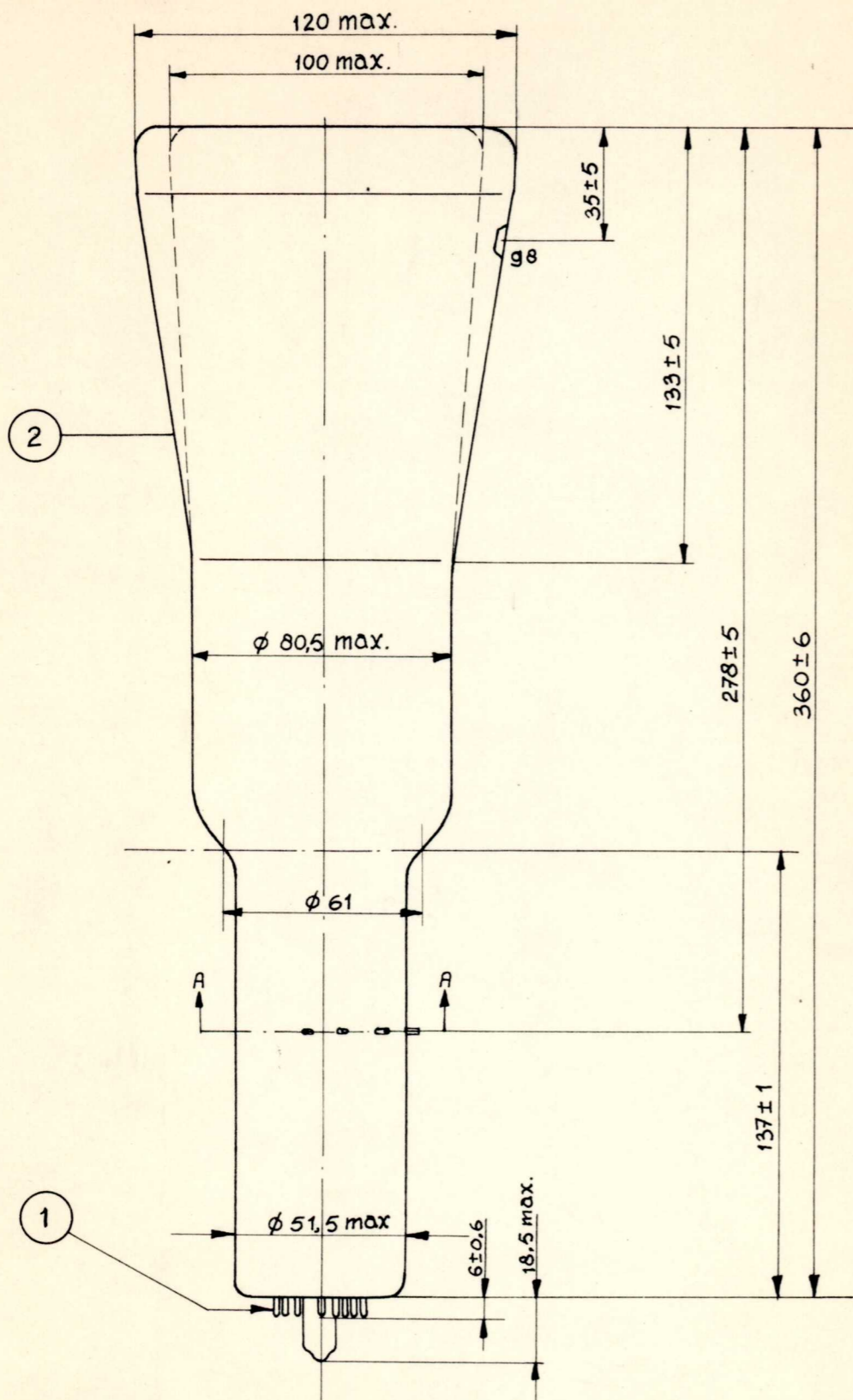
* WIJZIGINGEN - ANDERUNG - MODIFICATIONS - ALTERATION

(T) - SIEHE - VOIR - SEE RV-6-4-0/403

| | | | |
|---------------|--------|------------|---------------|
| DAT. 15.10.68 | PAR : | BLADEN : | BLAD : |
| DATE : | PAR : | BLATTER : | BLATT : |
| | PAR : | FEUILLES : | FEUILLE 366-2 |
| | SIGN : | SHEETS : | SHEET : |

| | | | |
|---------------------|----|----------|---------|
| CONTROLE - CONTROLE | II | CODE Nr. | D14-121 |
| KONTROLLE - TEST | | TYPE | |

N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND.



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| | | | |
|--|----------|--------------------------------|------------|
| SAM. TEKENING | 15.10.68 | D14-121GP D14-121GH | |
| | | | |
| N.V. PHILIPS' GLOEILAMPENFABRIEKEN EINDHOVEN NEDERLAND | | AANT. BL: 1 | BLAD 110-1 |
| | | | Form. A3 |

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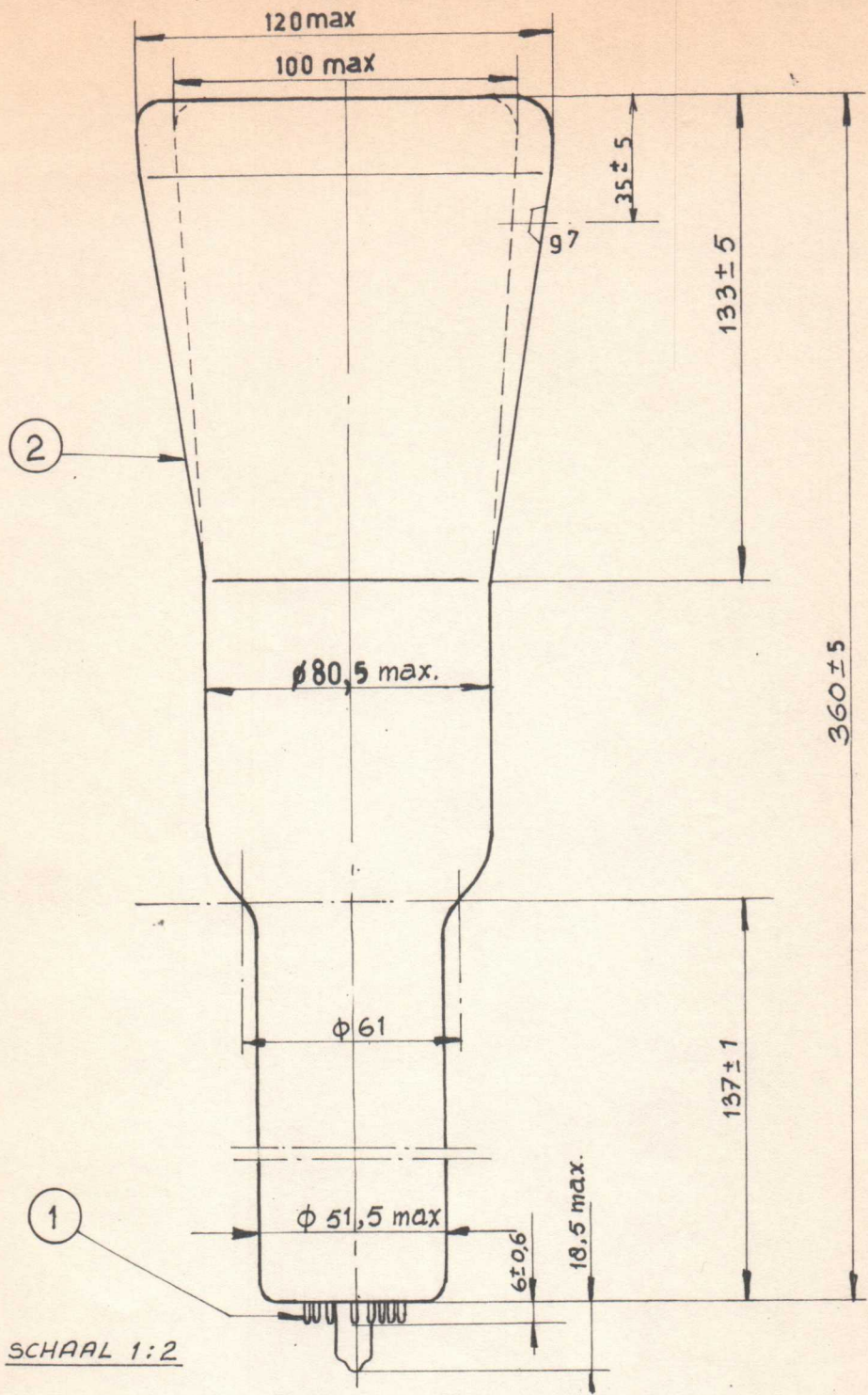
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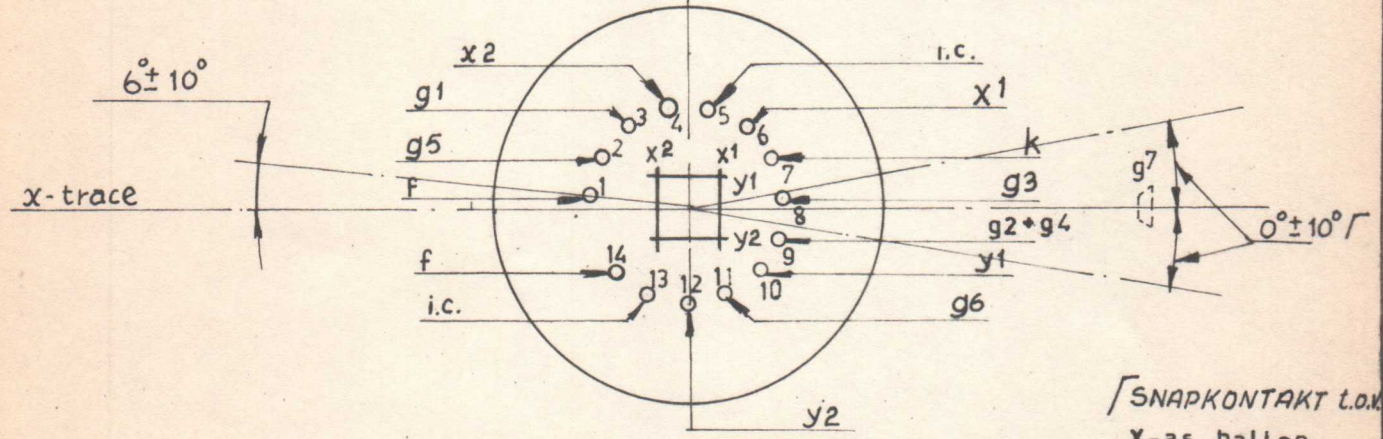
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| LINE LIJN | QUANTITY HOEVEELHEID | | LEVEL NIVEAU | DESCRIPTION OMSCHRIJVING | STANDARD NORM | QDS | CODE | ITEM POST |
|--------------|-------------------------|------|-----------------|---|------------------|-----|----------------|--------------|
| | NUM. VALUE | UNIT | | | | | | |
| 1 | | | 1 | SAM. KANON (zie afzonderlijke stuklijst) | | | 3322 142 15401 | 1 |
| 1 | | | 1 | SAM. BALLON (GH-scherm) | | | 3322 050 14601 | 2 |
| 1 | | | 1 | of | | | | |
| 1 | | | 1 | SAM. BALLON (GP-scherm) | | | 3322 050 11401 | |
| 1 | | | 2 | Ballon | | | 3322 050 14801 | |
| 1 | | | 3 | Scherm + conus + hals | | | | |
| 1 | | | 4 | 168 glas | | | | |
| 1 | | | 3 | Snapcontact | | | 3322 131 08801 | |
| 1 | | | 4 | Snapcontact-n.geëmailleerd | | | 3322 063 85801 | |
| 14 (1/2x28) | mm | | 5 | NiCrFeband 47/5 dieptr.kwal. 0,3x52 | N 238 | | 0122 088 00007 | |
| | | | 2 | Fluorescentiescherm / | | | | |
| | | | 2 | Vlies / | | | | |
| | | | 2 | Zwartlaag / | | | | |
| | | | 2 | Al.laag F | | | | |
| 1 | | | 3 | Haak | | | 3322 064 11801 | |
| 1 | | | 4 | Haak-niet gebeitst | | | 3322 066 01201 | |
| 14,4 | mm | | 5 | Al.dr.half hard ø 1,5 | T 003 | | 0422 015 02017 | |
| | | | 1 | SYNTHETISCHE VERNIS / | | | | 3 |
| | | | 1 | STEMPELVERF / | | | | 4 |
| | | | | <u>DIVERSEN F</u> <u>Voor aanbrengen Al.laag per 8 ballons</u> | | | | |
| 1 | | | 1 | OPDAMPSPIRAAL | | | 3322 064 38401 | |
| 1 | | | 2 | Opdampspiraal-n.gebeitst | | | 3322 064 38411 | |
| 1 | | | 3 | Staaft | | | 3322 999 60025 | |
| 136,5 | mm | | 4 | Wdr.D gereinigd geslagen 3x0,65ø | P 081 | | 0522 025 18007 | |
| | | | | <u>Hals-voor reparatie per 10 ballons</u> | | | | |
| 5 | | | 1 | Hals-afgebot | | | 3322 041 75401 | |
| | | | 2 | 168 glas | | | | |
| 1 | | | 1 | BUISHOUDER type 55566 | | | | |
| | | | | / Zie chemicalieënstuklijst | | | | |

| | | | | | |
|---|--------------------|------------------------|---------------------------|--------------------------------|----------------------------|
| DESCRIPTION - OMSCHRIJVING | | CODE | MARK. CODE STEMP. CODE | TYPE | ALTER: DATE WIJZ. DATUM |
|  PARTS LIST STUKLIJST | | | | NB. D14-121GP Mr. D14-121GH | 9.7.68 |
| NAME NAAM | SUPERS: VERV. : | CONT. SH. VOLG. BL. | 1 | SH. BL. 120-1 | CHECK CONTR. |
| PROPERTY OF: N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN | | | | | FIRST DATE 1° DATUM |
| | | | | | FORM A4 |



SCHAAL 1:2




ONDERAANZICHT SCHAAL 1:1

SNAPKONTAKT t.o.m.
 X-as ballon

| | | | | | | | |
|---|--------|---------|-----------------------------------|---|---|---|-------|
| DAT. DATE | 9.7.68 | 1-10468 | PAR : PAR : PAR : SIGN : | BLADEN : BLÄTTER : FEUILLES : SHEETS : | 1 | BLAD : BLATT : FEUILLE : SHEET : | 110-1 |
| SAM. TEKENING | | | CODE No. | D14-120 GP | | | |
| | | | TYPE | D14-120 GH | | | |
| N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND. | | | | | | | |

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| LINE LIJN | QUANTITY HOEVEELHEID | | LEVEL NIVEAU | DESCRIPTION OMSCHRIJVING | STANDARD NORM | QDS | CODE | ITEM POST |
|--------------|---------------------------|---------------|-----------------|--|------------------|-----|----------------|--------------|
| | NUM. VALUE NUM. WAARDE | UNIT EENH. | | | | | | |
| 1 | | | 1 | SAM.KANON (zie afzonderlijke stuklijst) | | | 3322 142 15201 | 1 |
| 1 | | | 1 | SAM.BALLON (GH scherm) of | | | 3322 050 14601 | 2 |
| 1 | | | 1 | SAM.BALLON (GP-scherm) | | | 3322 050 11401 | |
| 1 | | | 2 | Ballon | | | 3322 050 14801 | |
| 1 | | | 3 | Scherm + conus + hals | | | | |
| 1 | | | 4 | 168 glas | | | | |
| 1 | | | 3 | Snapcontact | | | 3322 131 08801 | |
| 1 | | | 4 | Snapcontact-n.geëmailleerd | | | 3322 063 85801 | |
| 14(1/2 x 28) | mm | | 5 | NiCrFeband 47/5 dieptr.kwal. 0,3x52 | N238 | | 0122 088 00007 | |
| 1 | | | 2 | Fluorescentiescherm / | | | | |
| 1 | | | 2 | Vlies / | | | | |
| 1 | | | 2 | Zwartlaag / | | | | |
| 1 | | | 2 | Al.laag / | | | | |
| 1 | | | 3 | Haak | | | 3322 064 11801 | |
| 1 | | | 4 | Haak-niet gebeitst | | | 3322 066 01201 | |
| 14,4 | mm | | 5 | Al.dr.half hard ø 1,5 | T 003 | | 0422 015 02017 | |
| | | | 1 | SYNTHETISCHE VERNIS / | | | | 3 |
| | | | 1 | STEMPELVERF / | | | | 4 |
| | | | | <u>DIVERSEN</u> / | | | | |
| | | | | <u>Voor aanbrengen Al.laag per 8 ballons</u> | | | | |
| 1 | | | 1 | OPDAMPSPIRAAL | | | 3322 064 38401 | |
| 1 | | | 2 | Opdampspiraal-n.gebeitst | | | 3322 064 38411 | |
| 1 | | | 3 | Staaft | | | 3322 999 60025 | |
| 136,5 | mm | | 4 | Wdr.D gereinigd geslagen 3x0,65ø | P 081 | | 0522 025 18007 | |
| | | | | <u>Hals-voor reparatie per 10 ballons</u> | | | | |
| 5 | | | 1 | HALS-afgebot | | | 3322 041 43001 | |
| | | | 2 | 168 glas | | | | |
| 1 | | | 1 | BUISHOUDER type 55566 | | | | |
| | | | | / Zie chemicaliënstuklijst | | | | |

| | | | | | |
|---|--------------------|------------------------|---------------------------|------------------------|----------------------------|
| DESCRIPTION - OMSCHRIJVING | | CODE | MARK. CODE STEMP. CODE | TYPE | ALTER: DATE WIJZ. DATUM |
|  PARTS LIST STUKLIJST | | | NS. D14-120GP | | 9.7.68 |
| | | | L5. D14-120GH | | 17.9.68 |
| NAME NAAM v.d.Boom/MCH | SUPERS: VERV. : | CONT. SH. VOLG. BL. | 1 | SH. BL. 120-1 | CHECK CONTR. |
| PROPERTY OF: N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN | | | | FIRST DATE 1° DATUM | FORM A4 |



T A R G E T S P E C I F I C A T I O N

REMARK : The information included in this target specification should not be considered as final. The reader is kindly requested therefore not to use the target information for publication purposes.

TYPE : Commercial: D 14-120GH Experimental: 47 D 14-GH

DESCRIPTION : 14 cm diagonal, rectangular flat faced oscilloscope tube with mesh and metal backed screen.

QUICK REFERENCE DATA :

| | | |
|---|----------|-----------------|
| Final accelerator voltage $V_{g7}(L)$ | 10 | kV ₂ |
| Display area | 100 x 80 | mm |
| Deflection factor, horizontal M_x (approx.) | 15.5 | V/cm |
| vertical M_y (approx.) | 4.2 | V/cm |

SCREEN : Metal backed phosphor
 Luminescence green
 Persistence medium short
 Minimum useful screen dimensions 100 horizontal mm
 80 vertical mm
 Useful scan at $V_{g7}(L)/V_{g2,g4} = 6.7$ 100 min. horizontal mm
 80 min. vertical mm
 Spot excentricity in hor. and vert. direction ± 6 mm

HEATING : Indirect by A.C. or D.C.; parallel supply
 Heater voltage V_f 6.3 V
 Heater current I_f 300 mA

MECHANICAL DATA : see also sheet 4.

Mounting position Note 1.) any
 Dimensions and connections : see also sheet 4
 Overall length (socket included) (approx.) 385 max. mm₂
 Face dimensions 100 x 120 max. mm
 Net weight (approx.) 900 g
 Base 14 pins all glass
 Socket type 55566
 Final accelerator contact connector type 55563
 Mu-metal shield type 55581

CAPACITANCES :

| | | | |
|--|---------------|-----|----|
| x_1 to all other elements except x_2 | $C_{x1}(x_2)$ | 7 | pF |
| x_2 to all other elements except x_1 | $C_{x2}(x_1)$ | 7 | pF |
| y_1 to all other elements except y_2 | $C_{y1}(y_2)$ | 5 | pF |
| y_2 to all other elements except y_1 | $C_{y2}(y_1)$ | 5 | pF |
| x_1 to x_2 | C_{x1x2} | 2.5 | pF |
| y_1 to y_2 | C_{y1y2} | 2 | pF |
| Control grid to all other elements | C_{g1} | 6 | pF |
| Cathode to all other elements | C_k | 5 | pF |

FOCUSING : electrostatic

DEFLECTION : double electrostatic
 x plates symmetrical
 y plates symmetrical

If use is made of the full deflection capabilities of the tube the deflection plates will intercept part of the electron beam; hence a low impedance deflection plate drive is desirable.

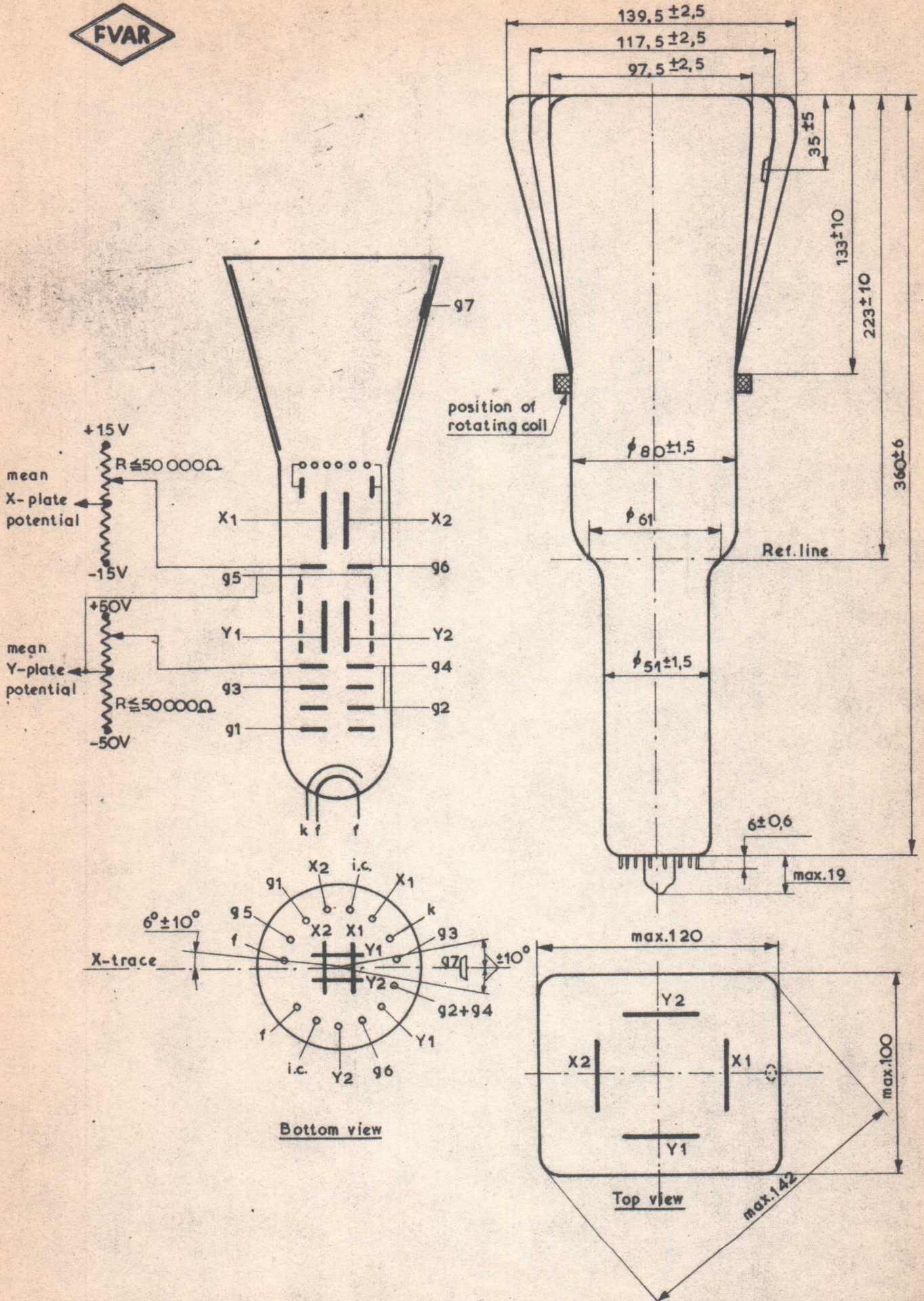
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|---|---------|----------|--|--|-----------------------------------|---|---|
| DAT. DATE | 29-8-67 | 13-10-67 | | | PAR : PAR : PAR : SIGN.: | BLADEN : BLÄTTER : FEUILLES : SHEETS : 5 | BLAD : BLATT : FEUILLE : SHEET : 1 |
| T A R G E T S P E C I F I C A T I O N | | | | | CODE No. Commercial : D14-120GH | | |
| | | | | | TYPE Experimental: 47D14-GH | | |
| N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND. | | | | | | | |



NOTES. (Concerning sheet 1 and 2)

- 1.) The tube should not be supported by the base alone and under no circumstances should the socket be allowed to support the tube.
- 2.) A rotating coil with 50 amp.turns, positioned as indicated, should be used to rotate the whole display, so that the x-trace will be parallel to the horizontal axis of the screen.
- 3.) This tube is designed for optimum performance when operating at a ratio not higher than $V_{g7}/V_{g2,g4} = 6.7$.
 The geometry control voltage should be adjusted within the indicated range with respect to the mean x potential.
 A negative control voltage will cause some pincushion distortion with less background light and a positive control voltage will give some barrel distortion and a slight increase of background light.
- 4.) Deflection plate shield voltage should be equal to the mean y-plate voltage.
 The mean x- and y-plate potentials should be equal for optimum spot quality.
- 5.) The astigmatism control electrode voltage should be adjusted for optimum spot shape. For any necessary adjustment its potential will be within the stated range. $R \leq 50.000 \Omega$

| | | | | | | | | |
|---|---------|--|--|--|--|-----------------------------------|---|---|
| DAT. DATE | 29-8-67 | | | | | PAR : PAR : PAR : SIGN.: | BLADEN : BLÄTTER : FEUILLES : SHEETS : | BLAD : BLATT : FEUILLE : SHEET : 3 |
| TARGET SPECIFICATION | | | | | | CODE No. Commercial : | D14-12GH | |
| | | | | | | TYPE Experimental: | 47D14-GH | |
| N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND. | | | | | | | | |



| | | | | |
|------|---------|--------|------------|-----------|
| DATE | 29-8-67 | PAR : | BLADEN : | BLAD : |
| DATE | | PAR : | BLÄTTER : | BLATT : |
| | | PAR : | FEUILLES : | FEUILLE : |
| | | SIGN.: | SHEETS : | SHEET : |

TARGET SPECIFICATION

CODE No. Commercial : D14.12GH
 TYPE Experimental : 47D14-GH



ALTERATION SHEET OF TARGET SPECIFICATION 47D14-GH.

Alterations of 13-10-67.

Sheet 1. Quick reference data:
Deflection factor, vertical My (approx.) 4 V/cm has been changed to 4.2 V/cm.

Mechanical data:
Mu-metal shield has been added, type no. 55581

Capacitances:
The following values have been changed:

- C_{x1(x2)} from 5 to 7 pF.
- C_{x2(x1)} from 5 to 7 pF.
- C_{y1(y2)} from 4 to 5 pF.
- C_{y2(y1)} from 4 to 5 pF.
- C_{xlx2} from 3 to 2.5 pF.

Sheet 2. Typical operating conditions:
Deflection factor, vertical My (approx.) 4 V/cm has been changed to 4.2 V/cm.

Limiting values:
Interplate shield voltage (geometry control) Vg5 has been changed to Vg6.

First accelerator and astigmatism control electrode voltage Vg2,g4 has been added, 2200 V max.

Cathode heater voltage V_{kf}=+125V has been changed to max. 125 V and min. -125 V.

Alteration of 15-12-67

Sheet 2. Typical operating conditions:
Focusing electrode voltage Vg3 360 V approx. has been changed to 310 V approx.

| | | | | |
|---|--------------------------------------|-----------------------------------|---|---|
| DAT. DATE | 29-8-67 13-10-67 15-12-67 | PAR : PAR : PAR : SIGN.: | BLADEN : BLÄTTER : FEUILLES : SHEETS : | BLAD : BLATT : FEUILLE : SHEET : 5 |
| T A R G E T S P E C I F I C A T I O N . | | CODE No. Commercial: | D14-120GH | |
| | | TYPE Experimental: | 47D14-GH | |
| N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND. | | | | |

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NOTES. (Concerning sheet 1 and 2)

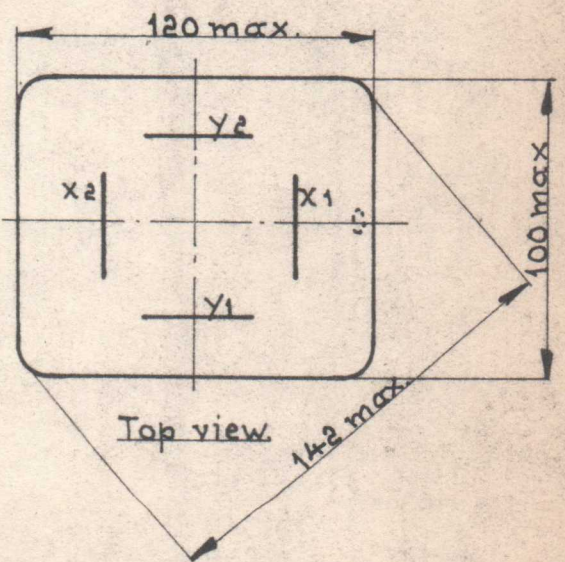
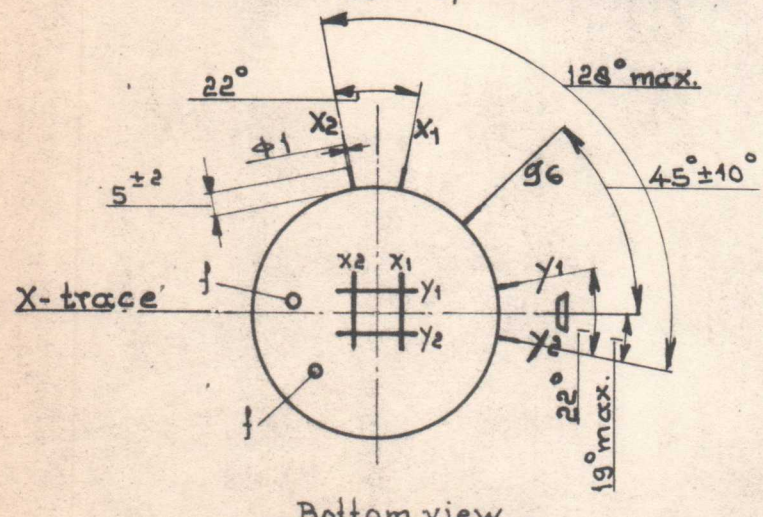
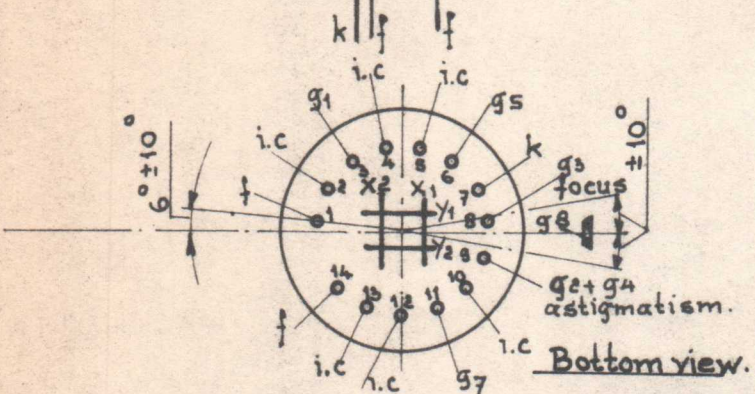
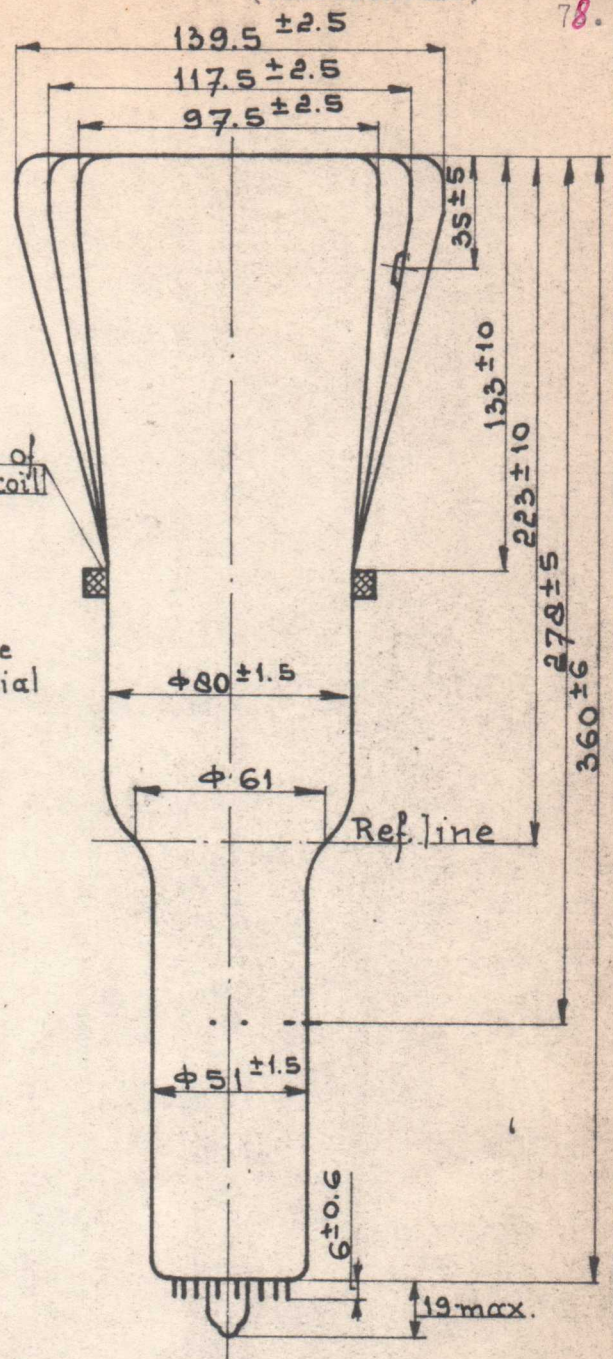
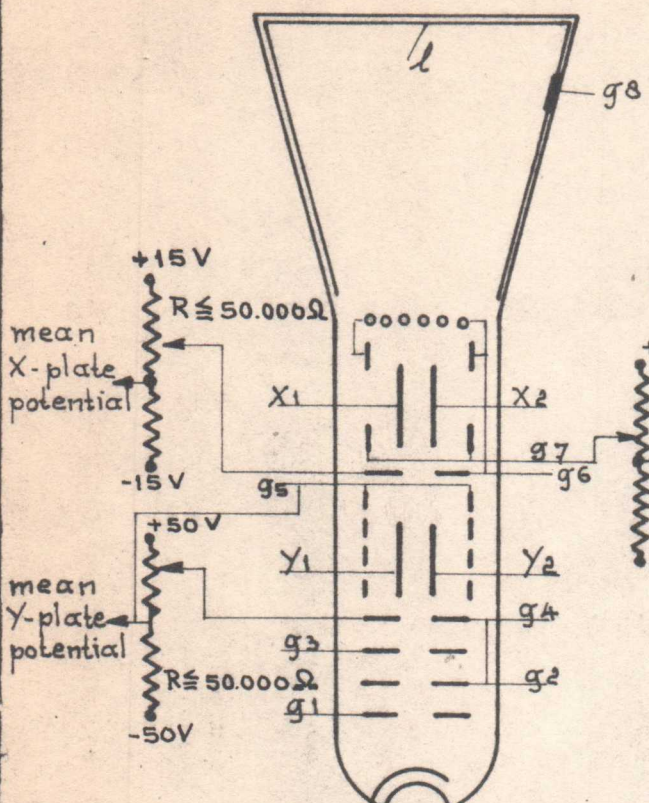
- 1.) The tube should not be supported by the base alone and under no circumstances should the socket be allowed to support the tube.
- 2.) A rotating coil with 50 amp. turns, positioned as indicated, should be used to rotate the whole display, so that the x-trace will be parallel to the horizontal axis of the screen.
- 3.) This tube is designed for optimum performance when operating at a ratio not higher than $V_{g8}/V_{g2,g4} = 6.7$.
 The geometry control voltage (V_{g7}) should be adjusted within the indicated ranges with respect to the mean X-plate potential.
 A negative control voltage on g_6 , also with respect to the mean X-plate potential, will cause some pincushion distortion with less background light and a positive control voltage will give some barrel distortion and a slight increase of background light.
 By the use of the two voltages V_{g6} and V_{g7} it is possible to find a compromise between background light and raster distortion.
- 4.) Deflection plate shield voltage should be equal to the mean y-plate potential.
 The mean x- and y-plate potentials should be equal for optimum spot quality.
- 5.) The astigmatism control electrode voltage should be adjusted for optimum spot shape. For any necessary adjustment its potential will be within the stated range. $R \leq 50.000 \Omega$

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|---|----------|--|--|--|--|-----------------------------------|---|---|
| DAT. DATE | 15-12-67 | | | | | PAR : PAR : PAR : SIGN.: | BLADEN : BLÄTTER : FEUILLES : SHEETS : | BLAD : BLATT : FEUILLE : SHEET : 3 |
| T A R G E T S P E C I F I C A T I O N . | | | | | | CODE No. Commercial: | D14-121GH | |
| | | | | | | TYPE | Experimental: 53D14-GH | |
| N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND. | | | | | | | | |



(Confidential)

78.



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| DAT. 15-12-67 DATE | PAR : PAR : SIGN : | BLADEN : BLÄTTER : FEUILLES : SHEETS : | BLAD : BLATT : FEUILLE : SHEET : 4 |
|-----------------------|--------------------------|---|---|

TARGET SPECIFICATION. CODE No. Commercial: D14-121GH
 TYPE Experimental: 53D14-GH

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79.



ALTERATION SHEET OF TARGET SPECIFICATION 53D14-GH.

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|---|----------|--|--|--|--|-----------------------------------|---|---|
| DAT. DATE | 15-12-67 | | | | | PAR : PAR : PAR : SIGN.: | BLADEN : BLÄTTER : FEUILLES : SHEETS : | BLAD : BLATT : FEUILLE : SHEET : 5 |
| TARGET SPECIFICATION. | | | | | | CODE No. Commercial: | D14-121GH | |
| | | | | | | TYPE Experimental: | 53D14-GH | |
| N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND. | | | | | | | | |