

Achromate VIS, Positiv, Durchmesser 3 - 31.5 mm, gefasst

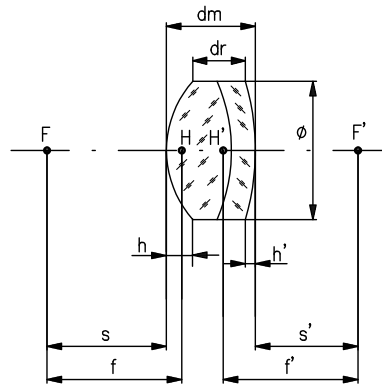
- Minimale chromatische Längsaberration
- Minimale sphärische Aberration
- Minimale Wellenfrontdeformation
- Sehr enge Brennweitentoleranz
- Mit Breitband-Antireflexschicht ARB2 VIS
- Kompatibel zur Mikrobank oder Nanobank

- Zwei Linsen verkittet
- Belastbarkeit > 2 kW/cm² cw (488/514 nm)
- Belastbarkeit > 200 mJ/cm² für Pulse 10 ns (1064 nm)

Achromats VIS, Positive; Dia. 3 mm to 31.5 mm, Mounted

- *Minimal longitudinal chromatic aberration*
- *Minimal spherical aberration*
- *Minimal wavefront distortion*
- *Tight focal length tolerance*
- *Broadband anti-reflection coated with ARB2 VIS*
- *Achromats in Nanobench and Microbench mounts fitting directly to these LINOS systems*

- *Cemented doublets*
- *Damage thresholds > 2 kW/cm² cw (488/514 nm)*
- *Damage thresholds > 200 mJ/cm² for pulses of 10 ns (1064 nm)*



| | |
|---------------|----------------------------------|
| f | focal length |
| s | object distance |
| s' | image distance |
| \varnothing | lens diameter |
| dm | center thickness |
| dr | edge thickness |
| h | primary vertex ($h=dm-dr-h'$) |
| h' | sagittal height secondary vertex |
| F, F' | focal points |
| H, H' | principal points |

Tolerances:
Focal length f: $\pm 1\%$
Image distance s': $\pm 1\%$

A closer look



Die Spezifikationen der Fassungen wie Abmessungen, Toleranzen etc. finden Sie im Kapitel "Aufbaumaterial", Abschnitt "Mikrobank- und Nanobank Fassungen".

For specifications of the mounts, such as dimensions, tolerances, etc., please look at chapter "Mounts and Posts", section "Mounts for Microbench and Nanobench".

Achromate VIS, Positiv, Durchmesser 3 - 31.5 mm, gefasst
Achromats VIS, Positive; Dia. 3 mm to 31.5 mm, Mounted

| Fassung | Brennweite (mm) | Ø (mm) | Freier-Ø (mm) | Fassung, Außen-Ø D (mm) | dm (mm) | dr (mm) | h' (mm) | s' _{546 nm} (mm) | f' _{546 nm} (mm) | C* | Part No. |
|---------|-------------------|--------|---------------|-------------------------|---------|---------|---------|---------------------------|---------------------------|----|------------|
| Mount | Focal length (mm) | Ø (mm) | Clear Ø (mm) | Mount, outer-Ø D (mm) | dm (mm) | dr (mm) | h' (mm) | s' _{546 nm} (mm) | f' _{546 nm} (mm) | C* | Part No. |
| ☒ | 4 | 3 | 2.5 | 16 | 2.4 | 1.8 | 0.2 | 2.83 | 4 | 1 | G052001000 |
| ☒ | 5 | 3 | 2.5 | 16 | 3.1 | 2.6 | 0.2 | 3.6 | 5 | 1 | G052002000 |
| ☒ | 6 | 3 | 2.5 | 16 | 2.7 | 2.2 | 0.1 | 4.68 | 5.95 | 1 | G052003000 |
| ☒ | 8 | 6 | 5 | 16 | 5 | 3.7 | 0.4 | 5.48 | 8 | 1 | G052021000 |
| ☒ | 10 | 6 | 5 | 16 | 3 | 2.1 | 0.2 | 8.88 | 10.38 | 1 | G052004000 |
| ☒ | 13 | 6 | 5 | 16 | 4.9 | 4.1 | 0.2 | 10.53 | 13 | 1 | G052022000 |
| ☒ | 18 | 6 | 5 | 16 | 3.7 | 3.2 | 0.1 | 16.07 | 18 | 1 | G052023000 |
| ☒ | 16 | 8 | 7 | 16 | 3.5 | 2.4 | 0.2 | 14.53 | 16.32 | 2 | G052005000 |
| ☒ | 20 | 10 | 9 | 16 | 4.1 | 2.8 | 0.3 | 18.44 | 20.6 | 2 | G052006000 |
| ☒ | 25 | 12.5 | 11.5 | 16 | 5.5 | 4 | 0.3 | 22.38 | 25.33 | 2 | G052007000 |
| ☒ | 30 | 12.5 | 11.5 | 16 | 5 | 3.7 | 0.3 | 27.59 | 30.24 | 2 | G052008000 |
| ☒ | 35 | 12.5 | 11.5 | 16 | 5 | 3.9 | 0.2 | 32.39 | 35.04 | 2 | G052009000 |
| ☒ | 40 | 12.5 | 11.5 | 16 | 6.3 | 5.1 | 0.4 | 37.24 | 40.09 | 2 | G052010000 |
| ☒ | 45 | 12.5 | 11.5 | 16 | 5.5 | 4.4 | 0.3 | 42.51 | 45.02 | 2 | G052011000 |
| ☒ | 50 | 12.5 | 11.5 | 16 | 5 | 4.1 | 0.3 | 47.65 | 50.01 | 2 | G052012000 |
| ☒ | 60 | 12.5 | 11.5 | 16 | 5.3 | 4.5 | 0.3 | 57.69 | 59.99 | 2 | G052013000 |
| ☒ | 80 | 12.5 | 11.5 | 16 | 5.5 | 5.1 | 0.2 | 77.57 | 79.94 | 2 | G052014000 |
| ☒ | 100 | 12.5 | 11.5 | 16 | 5.3 | 4.8 | 0.2 | 97.81 | 99.99 | 2 | G052015000 |
| ☒ | 300 | 12.5 | 11.5 | 16 | 4 | 3.8 | 0.1 | 297.57 | 299.85 | 2 | G052016000 |
| ☒ | 40 | 18 | 17 | 25 | 7 | 4.5 | 0.6 | 36.04 | 40.16 | 3 | G063127000 |
| ☒ | 50 | 18 | 17 | 25 | 6.5 | 4.6 | 0.3 | 45.95 | 50.04 | 3 | G063125000 |
| ☒ | 60 | 18 | 17 | 25 | 6 | 4.4 | 0.2 | 56.33 | 60.11 | 3 | G063126000 |
| ☒ | 80 | 18 | 17 | 25 | 5.8 | 4.6 | 0.2 | 76.62 | 80.13 | 3 | G063128000 |
| ☒ | 100 | 18 | 17 | 25 | 5.8 | 4.8 | 0.1 | 96.43 | 100.11 | 3 | G063129000 |
| ☒ | 50 | 22.4 | 21.4 | 25 | 7.5 | 5.2 | 0.4 | 45.76 | 50.04 | 4 | G063141000 |
| ☒ | 60 | 22.4 | 21.4 | 25 | 7 | 5.1 | 0.4 | 56.74 | 60.47 | 4 | G063142000 |
| ☒ | 80 | 22.4 | 21.4 | 25 | 7 | 5.1 | 0.6 | 77.05 | 80.34 | 4 | G063143000 |
| ☒ | 100 | 22.4 | 21.4 | 25 | 9 | 7.5 | 0.5 | 95.89 | 100.16 | 4 | G063144000 |
| ☒ | 140 | 22.4 | 21.4 | 25 | 8 | 6.9 | 0.4 | 136.2 | 140.07 | 4 | G063146000 |
| ☒ | 200 | 22.4 | 21.4 | 25 | 6 | 5.2 | 0.2 | 197.38 | 200.26 | 4 | G063148000 |
| ☒ | 500 | 22.4 | 21.4 | 25 | 6 | 5.7 | 0.1 | 495.99 | 499.43 | 4 | G063149000 |
| ☒ | 60 | 25.4 | 24 | 30 | 8.9 | 6.2 | 0.7 | 55.47 | 60.1 | 4 | G063212000 |
| ☒ | 80 | 25.4 | 24 | 30 | 7 | 4.6 | 0.8 | 77.05 | 80.34 | 4 | G063213000 |
| ☒ | 100 | 25.4 | 24 | 30 | 9 | 7.1 | 0.6 | 95.89 | 100.16 | 4 | G063214000 |
| ☒ | 120 | 25.4 | 24 | 30 | 7 | 5.4 | 0.5 | 116.77 | 120.1 | 4 | G063215000 |
| ☒ | 140 | 25.4 | 24 | 30 | 8 | 6.6 | 0.5 | 136.2 | 140.07 | 4 | G063235000 |
| ☒ | 160 | 25.4 | 24 | 30 | 8.6 | 7.4 | 0.4 | 155.95 | 160 | 4 | G063236000 |
| ☒ | 200 | 25.4 | 24 | 30 | 6 | 5 | 0.3 | 197.38 | 200.26 | 4 | G063237000 |
| ☒ | 300 | 25.4 | 24 | 30 | 7 | 6.4 | 0.2 | 297.19 | 300.23 | 4 | G063238000 |
| ☒ | 500 | 25.4 | 24 | 30 | 6 | 5.5 | 0.1 | 495.99 | 499.43 | 4 | G063239000 |
| ☒ | 80 | 31.5 | 30 | 35 | 10.5 | 6.7 | 1.2 | 74.84 | 80.1 | 5 | G063200000 |
| ☒ | 100 | 31.5 | 30 | 35 | 9.5 | 6.5 | 1 | 95.34 | 100.09 | 5 | G063201000 |
| ☒ | 120 | 31.5 | 30 | 35 | 9.5 | 7 | 0.8 | 115.6 | 119.91 | 5 | G063202000 |
| ☒ | 140 | 31.5 | 30 | 35 | 8 | 5.9 | 0.7 | 136.2 | 140.07 | 5 | G063203000 |
| ☒ | 150 | 31.5 | 30 | 35 | 8.6 | 6.6 | 0.7 | 145.85 | 150.03 | 5 | G063232000 |
| ☒ | 160 | 31.5 | 30 | 35 | 8.6 | 6.7 | 0.6 | 155.95 | 160 | 5 | G063204000 |
| ☒ | 200 | 31.5 | 30 | 35 | 7 | 5.5 | 0.4 | 197.21 | 200.41 | 5 | G063205000 |
| ☒ | 250 | 31.5 | 30 | 35 | 7 | 5.8 | 0.4 | 247.42 | 250.45 | 5 | G063206000 |
| ☒ | 300 | 31.5 | 30 | 35 | 7 | 6 | 0.3 | 297.19 | 300.23 | 5 | G063207000 |
| ☒ | 400 | 31.5 | 30 | 35 | 7 | 6.3 | 0.2 | 397.05 | 400.08 | 5 | G063208000 |
| ☒ | 600 | 31.5 | 30 | 35 | 7 | 6.5 | 0.2 | 597.3 | 600.34 | 5 | G063209000 |
| ☒ | 1330 | 31.5 | 30 | 35 | 6.6 | 6.4 | 0.1 | 1326.3 | 1329.4 | 5 | G063210000 |

C* Eine Tabelle mit weiteren Spezifikationen finden Sie zu Beginn dieses Kapitels.
 Please find more specifications in the table at the beginning of this chapter.