





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

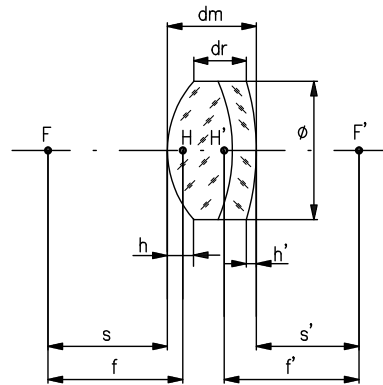
- Minimale chromatische Längsaberration
- Minimale sphärische Aberration
- Minimale Wellenfrontdeformation
- Sehr enge Brennweitentoleranz
- Mit Breitband-Antireflexschicht ARB2 VIS
- Kompatibel zur Mikrobank  oder Nanobank 

- Zwei Linsen verkittet
- Belastbarkeit > 2 kW/cm<sup>2</sup> cw (488/514 nm)
- Belastbarkeit > 200 mJ/cm<sup>2</sup> 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/cm<sup>2</sup> cw (488/514 nm)*
- *Damage thresholds > 200 mJ/cm<sup>2</sup> for pulses of 10 ns (1064 nm)*



|       |                                  |
|-------|----------------------------------|
| f     | focal length                     |
| s     | object distance                  |
| s'    | image distance                   |
| Ø     | 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: ±1%  
Image distance s': ±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' <sub>546 nm</sub> (mm) | f' <sub>546 nm</sub> (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' <sub>546 nm</sub> (mm) | f' <sub>546 nm</sub> (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.