

LINOS Beam Expander

2 – 8x, 355nm, fused silica

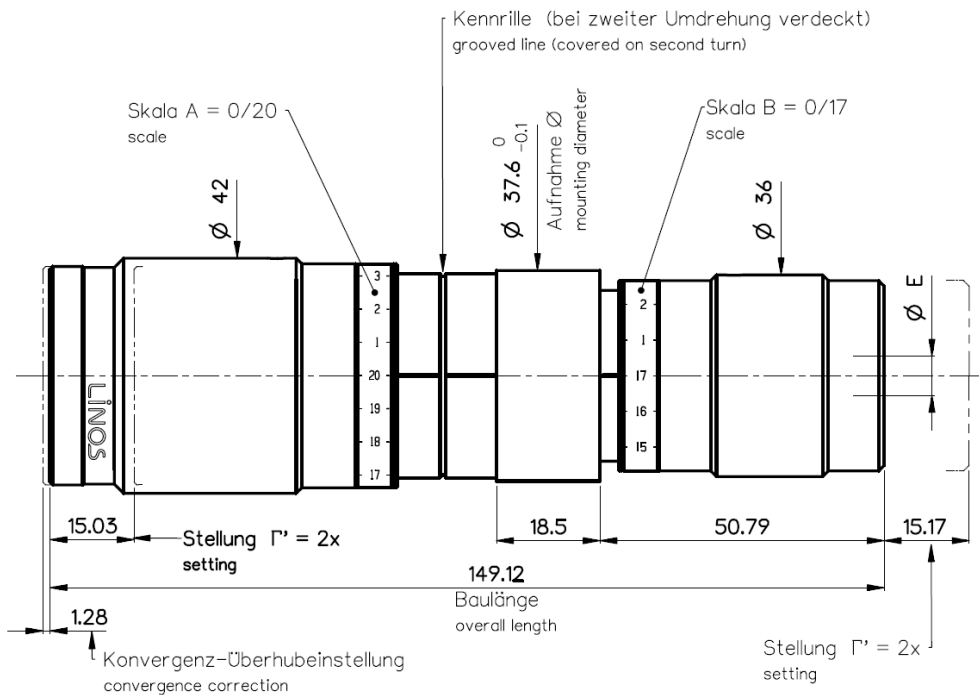


Part number	4401-402-000-20		
Design wavelength	λ	(nm)	355
Expansion	Γ'		2x – 8x
Lens material			Fused silica
Material			Aluminium, black anodized
Max. entrance beam diameter ($1/e^2$ truncated) for $2.0 \leq \Gamma \leq 7.0$	$E_{\max} \varnothing$	(mm)	3.4
Max. entrance beam diameter ($1/e^2$ truncated) for $7.0 < \Gamma \leq 8.0$	$E_{\max} \varnothing$	(mm)	$-1.4 \times \Gamma' + 13.2$ (mm)
LIDT coating @ 355nm, 5ns, 100Hz		(J/cm ²)	5

Subject to technical change

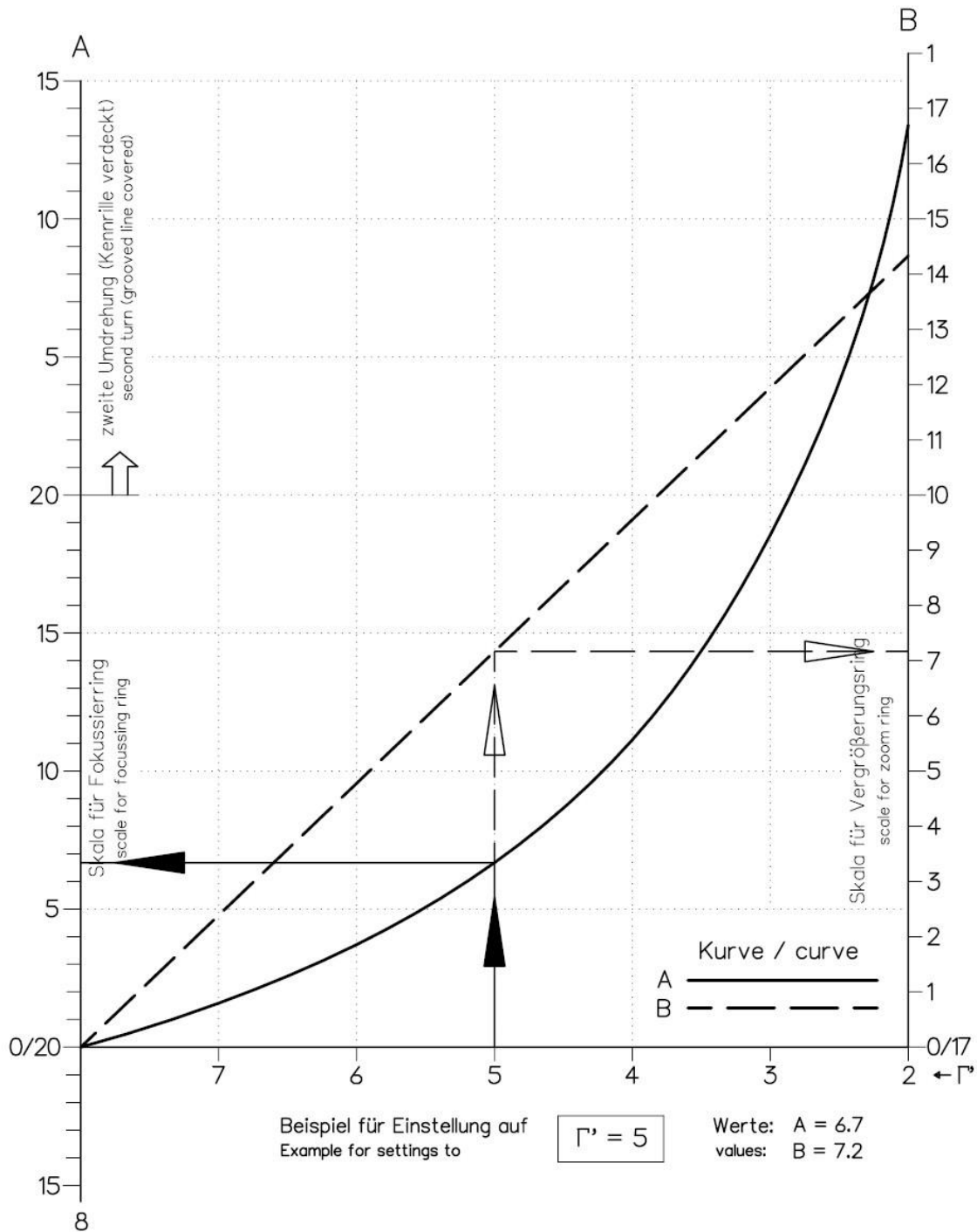
Mechanical drawing

Beam Expander displayed in setting $\Gamma' = 8x$



Dimensions without tolerances are nominal values and illustration not to scale

Setting values for a given expansion Γ'



Notes

For technical explanations, see our homepage.

[LINOS Laser Material Processing Optics | Excelitas](https://www.excelitas.com)

The actual LIDT of the Beam Expander, as well as effects such as thermal focus shift, depend on the specific system setup and laser parameters. We recommend testing the respective optical components before use. We are happy to support and advise you in selecting the right Beam Expander!