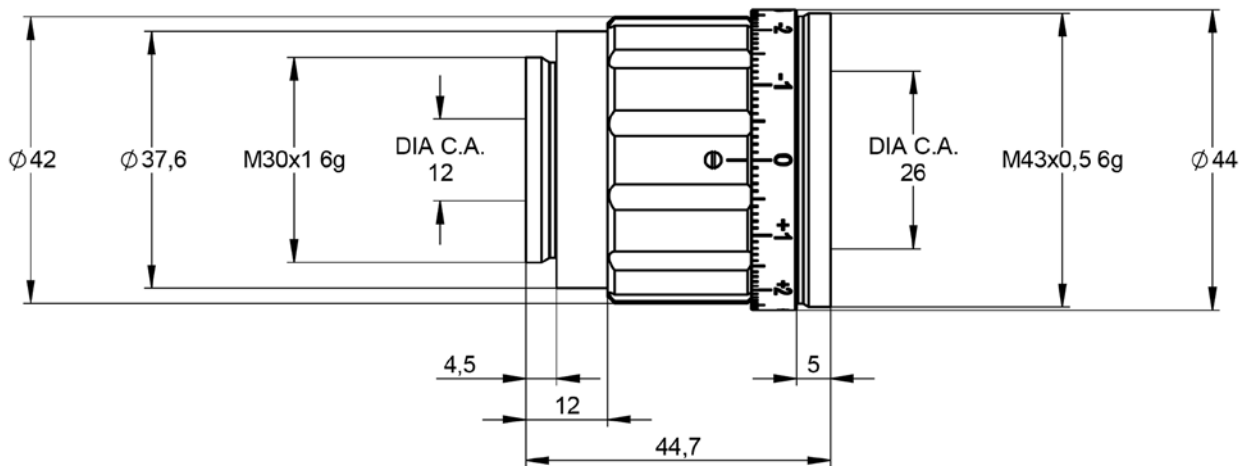


DATA SHEET



S6EXK0020/075 Beamexpander

- magnification 2.0x
- for 355 nm
- fused silica
- standard coating



outline drawing

DATA SHEET



specifications

| | |
|-------------------------------------|--|
| article number | S6EXK0020/075 |
| design wavelength [nm] | 355 |
| magnification factor | 2.0x |
| divergence adjustable | ✓ |
| optical principle | Galilei (no internal focus) |
| mounting thread | M30x1 |
| pointing stability [mrad] | < 1 |
| clear input aperture [mm] | 12.0 |
| clear output aperture [mm] | 26.0 |
| max. input beam diameter [mm] | 10.0 |
| wavefront error ¹⁾ | < $\lambda/10$ for $1/e^2$ diameter ²⁾ of 5.0 |
| total number of lenses | 2 |
| total transmission [%] | 99 |
| lens material | fused silica |
| LIDT (coating) [J/cm ²] | 1.0 (1ns pulse at 50Hz) |
| no internal ghosts [✓/✗] | ✓ |
| no internal ghosts, reversed usage | ✓ |
| weight [kg] | 0.20 |
| accessory | S6MEC0127 - adapter M30x1 to C-mount |

notes

- 1) Wavefront error peak to valley on axis proved by design
2) beam diameter vignetted at $1/e^2$

Data given by design

LIDT = Laser Induced Damage Threshold, valid for the coating at design wavelength and gaussian intensity profil

Total length at divergence setting „0“. Max. lengthening of 3 mm is possible