

## Variable Beam Expanders

### Typical Items

| Wavelength, nm | Expansion range | Max input beam diameter*, mm | Housing dimensions, mm | Product ID  |                       |
|----------------|-----------------|------------------------------|------------------------|-------------|-----------------------|
| 343-355        | 1x-4x           | 1X                           | 4.0                    | Ø41 x 120   | VBE-1X-4X-0343-0355-B |
|                |                 | 2X                           | 5.5                    |             |                       |
|                |                 | 3X                           | 3.0                    |             |                       |
|                |                 | 4X                           | 3.0                    |             |                       |
|                | 2x-8x           | 2X                           | 5.0                    | Ø41 x 145   | VBE-2X-8X-0343-0355-B |
|                |                 | 3X                           | 5.0                    |             |                       |
|                |                 | 4X                           | 4.0                    |             |                       |
|                |                 | 5X                           | 3.0                    |             |                       |
|                |                 | 6X                           | 2.5                    |             |                       |
|                |                 | 7X                           | 2.25                   |             |                       |
| 515-532        | 1x-4x           | 1X                           | 4.5                    | Ø41 x 120   | VBE-1X-4X-0515-0532-B |
|                |                 | 2X                           | 6.5                    |             |                       |
|                |                 | 3X                           | 4.0                    |             |                       |
|                |                 | 4X                           | 4.0                    |             |                       |
|                | 2x-8x           | 2X                           | 5.0                    | Ø41 x 147.5 | VBE-2X-8X-0515-0532-B |
|                |                 | 3X                           | 5.0                    |             |                       |
|                |                 | 4X                           | 4.0                    |             |                       |
|                |                 | 5X                           | 3.0                    |             |                       |
|                |                 | 6X                           | 2.5                    |             |                       |
|                |                 | 7X                           | 2.25                   |             |                       |
| 1030-1064      | 1x-4x           | 1X                           | 4.5                    | Ø41 x 120   | VBE-1X-4X-1030-1064-B |
|                |                 | 2X                           | 7.0                    |             |                       |
|                |                 | 3X                           | 5.0                    |             |                       |
|                |                 | 4X                           | 4.0                    |             |                       |
|                | 2x-8x           | 2X                           | 5.0                    | Ø41 x 147.5 | VBE-2X-8X-1030-1064-B |
|                |                 | 3X                           | 5.0                    |             |                       |
|                |                 | 4X                           | 5.0                    |             |                       |
|                |                 | 5X                           | 4.0                    |             |                       |
|                |                 | 6X                           | 3.0                    |             |                       |
|                |                 | 7X                           | 2.5                    |             |                       |
|                | 8X              | 2.5                          |                        |             |                       |

\* Max input beam diameter at 1/e<sup>2</sup> intensity level ensuring diffraction limited performance