## neyco

 HEF ${ }^{\text {р }}$ Ротомісs
## TDS

## EDGE WELDED BELLOWS



Edge welded bellows, or diaphragm welded bellows, are flexible connecting elements between vacuum flanges or end fittings of any kind. The edge welded bellow is not a rigid body but can overcome a specified working stroke.

Main applications:

- Feedthrough
- Expansion joint
- Vibration isolator

Edge welded bellows serve as feedthrough to introduce movements into the vacuum or to separate the vacuum chamber from mechanical parts.

Edge welded bellow can be used as compensator to balance thermal


Edge welded bellows are often used for vibration decoupling e. g. between vacuum pump and measuring instrument.

Welded bellows are widely used for transfer with a $Z$ travel both in compression and elongation. Angular adjustment is highly suitable as well.

Welded bellows are available in KF, ISO and CF flanges, or end fittings according to the customer's drawing, fully low UHV compatible.

Lengths upon request, or according to customer's drawing.

Specifications:

- Material
- Temperature
- Leak rate
- Compress rate
- Stretch rate
- Service life
- Convolution rigidity

Stainless steel 304, 304L, 316, 316L, 347, semi austenitic Stainless Steel AM350, Inconel 718, Hastelloy C22, Titanium, ...
$-250 / 450^{\circ} \mathrm{C}$ for $316 \mathrm{~L},-250 / 300^{\circ} \mathrm{C}$ for AM350
< $1.10^{-10} \mathrm{mbar}$. $/ \mathrm{s}$
about 50-70\%
about 5-15\%
100-1000-3000 thousand times (according to the temperature and pressure)
$0.5-20 \mathrm{~N} / \mathrm{mm}$

Standard dimensions :

| Model | OD | ID |
| :---: | :---: | :---: |
| WB-10 | 10.0 | 5.0 |
| WB-10.5 | 10.5 | 5.0 |
| WB-12.5 | 12.5 | 7.0 |
| WB-13.5 | 13.5 | 6.0 |
| WB-15 | 15.0 | 6.5 |
| WB-16.2 | 16.2 | 8.0 |
| WB-18 | 18.0 | 6.5 |
| WB-18 | 18.0 | 9.0 |
| WB-18 | 18.0 | 10.5 |
| WB-20 | 20.0 | 10.0 |
| WB-21.5 | 21.5 | 11.5 |
| WB-24 | 24.0 | 10.0 |
| WB-24 | 24.0 | 12.0 |
| WB-25 | 25.0 | 16.0 |
| WB-26 | 26.0 | 13.7 |
| WB-26 | 26.0 | 13.8 |
| WB-28.3 | 28.3 | 14.1 |
| WB-30.1 | 30.1 | 16.6 |
| WB-31.5 | 31.5 | 16.9 |
| WB-31.8 | 31.8 | 19.0 |
| WB-34 | 34.0 | 21.0 |
| WB-34.2 | 34.2 | 13.8 |
| WB-35 | 35.0 | 12.7 |
| WB-35 | 35.0 | 22.0 |
| WB-36.4 | 36.4 | 17.0 |
| WB-36.7 | 36.7 | 23.0 |
| WB-37 | 37.0 | 19.0 |
| WB-38.1 | 38.1 | 25.4 |
| WB-39.4 | 39.4 | 19.0 |
| WB-40 | 40.0 | 22.0 |
| WB-41.5 | 41.5 | 22.0 |
| WB-42.9 | 42.9 | 30.2 |


| Model | OD | ID |
| :---: | :---: | :---: |
| WB-44.2 | 44.2 | 31.0 |
| WB-44.2 | 44.2 | 28.0 |
| WB-44.4 | 44.4 | 22.4 |
| WB-44.4 | 44.4 | 19.0 |
| WB-44.5 | 44.5 | 19.0 |
| WB-45 | 45.0 | 25.0 |
| WB-46 | 46.0 | 33.0 |
| WB-48 | 48.0 | 31.8 |
| WB-49.4 | 49.4 | 31.4 |
| WB-49.5 | 49.5 | 33.0 |
| WB-50 | 50.0 | 35.0 |
| WB-50.8 | 50.8 | 38.1 |
| WB-51 | 51.0 | 31.4 |
| WB-52 | 52.0 | 28.0 |
| WB-52.4 | 52.4 | 39.6 |
| WB-54 | 54.0 | 41.0 |
| WB-55 | 55.0 | 35.0 |
| WB-55 | 55.0 | 38.0 |
| WB-55.6 | 55.6 | 42.8 |
| WB-57 | 57.0 | 30.0 |
| WB-57.15 | 57.15 | 44.45 |
| WB-58.2 | 58.2 | 46.0 |
| WB-58.9 | 58.9 | 46.05 |
| WB-59 | 59.0 | 39.0 |
| WB-60 | 60.0 | 40.0 |
| WB-61 | 61.0 | 35.0 |
| WB-61.9 | 61,9 | 49.1 |
| WB-62 | 62.0 | 24.0 |
| WB-64.5 | 64.5 | 39.0 |
| WB-65 | 65.0 | 43.0 |
| WB-65 | 65.0 | 45.0 |
| WB-66 | 66.0 | 53.5 |


| Model | OD | ID |
| :---: | :---: | :---: |
| WB-68 | 68.0 | 50.0 |
| WB-70 | 70.0 | 50.0 |
| WB-71.5 | 71.5 | 58.7 |
| WB-74.6 | 74.6 | 61.9 |
| WB-75 | 75.0 | 55.8 |
| WB-75 | 75.0 | 60.0 |
| WB-76.2 | 76.2 | 50.8 |
| WB-79 | 79.0 | 49.0 |
| WB-80 | 80.0 | 58.0 |
| WB-80 | 80.0 | 60.0 |
| WB-85 | 85.0 | 63.0 |
| WB-88 | 88.0 | 65.0 |
| WB-90 | 90.0 | 50.0 |
| WB-90 | 90.0 | 55.0 |
| WB-90 | 90.0 | 58.0 |
| WB-90 | 90.0 | 65.0 |
| WB-92 | 92.0 | 76.0 |
| WB-92 | 92.0 | 76.3 |
| WB-92.02 | 92.02 | 73.08 |
| WB-95 | 95.0 | 65.0 |
| WB-95 | 95.0 | 73.0 |
| WB-98.43 | 98.43 | 81.74 |
| WB-100 | 100.0 | 65.0 |
| WB-105 | 105.0 | 75.0 |
| WB-105 | 105.0 | 80.0 |
| WB-106.7 | 106.7 | 90.7 |
| WB-107.95 | 107.95 | 91.9 |
| WB-107.9 | 107.9 | 96.0 |
| WB-108 | 108.0 | 80.0 |
| WB-108 | 108.0 | 96.0 |
| WB-109 | 109.0 | 80.0 |
| WB-115 | 115.0 | 85.0 |
| WB-119 | 119.0 | 89.0 |
| WB-120 | 120.0 | 80.0 |
| WB-120 | 120.0 | 95.0 |
| WB-120.8 | 120.8 | 101.6 |
| WB-123.78 | 123.78 | 104.8 |
| WB-123.78 | 123.78 | 108.0 |
| WB-125 | 125.0 | 95.0 |
| WB-125 | 125.0 | 102.0 |
| WB-125 | 125.0 | 108.0 |
| WB-127 | 127.0 | 110.95 |
| WB-130 | 130.0 | 90.0 |


| Model | OD | ID |
| :---: | :---: | :---: |
| WB-130 | 130.0 | 110.0 |
| WB-132 | 132.0 | 102.0 |
| WB-140 | 140.0 | 100.0 |
| WB-140 | 140.0 | 110.0 |
| WB-140 | 140.0 | 120.0 |
| WB-145 | 145.0 | 105.0 |
| WB-145 | 145.0 | 110.0 |
| WB-145 | 145.0 | 125.0 |
| WB-147 | 147.0 | 131.0 |
| WB-150 | 150.0 | 110.0 |
| WB-150 | 150.0 | 120.0 |
| WB-160 | 160.0 | 120.0 |
| WB-160 | 160.0 | 130.0 |
| WB-169 | 169.0 | 149.0 |
| WB-170 | 170.0 | 140.0 |
| WB-180 | 180.0 | 140.0 |
| WB-180 | 180.0 | 150.0 |
| WB-185 | 185.0 | 150.0 |
| WB-190 | 190.0 | 150.0 |
| WB-200 | 200.0 | 167.0 |
| WB-200 | 200.0 | 177.0 |
| WB-209.55 | 209.55 | 190.50 |
| WB-218 | 218.0 | 190.0 |
| WB-218 | 218.0 | 198.0 |
| WB-235 | 235.0 | 200.0 |
| WB-254 | 254.0 | 224.0 |
| WB-270 | 270.0 | 207.0 |
| WB-270 | 270.0 | 216.0 |
| WB-270 | 270.0 | 230.0 |
| WB-285 | 285.0 | 252.0 |
| WB-290 | 290.0 | 265.0 |
| WB-310 | 310.0 | 280.0 |
| WB-350 | 350.0 | 300.0 |
| WB-364 | 364.0 | 320.0 |
| WB-430 | 430.0 | 390.0 |
| WB-600 | 600.0 | 550.0 |
| WB-750 | 750.0 | 700.0 |
| WB-800 | 800.0 | 750.0 |
| WB-900 | 900.0 | 800.0 |
| WB-1000 | 1000.0 | 900.0 |

