

## Expanders for spring energized seals | Enerspring V

Enerspring V expanders for energized seals

Materials: **Aisi 301 - Elgiloy - Hastelloy C276 - Inconel X750 NACE approved**

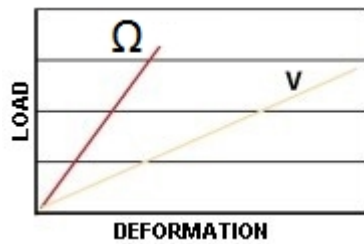
Long term maintenance of pre load

Uncontaminating and sterilizable

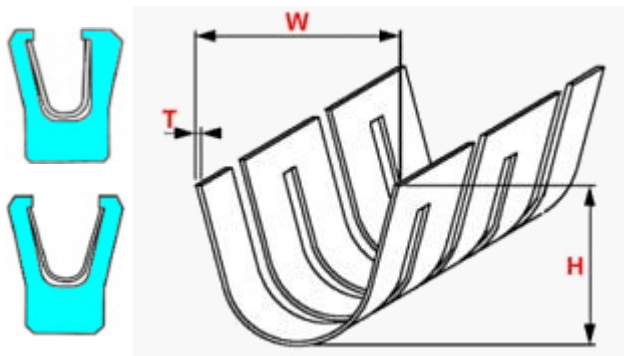
Wide range of chemical resistance

Supplied in coils or made to measure and welded

Enerspring V versus **Omega**  
Comparative Load/Deformation  
graph



Enersprings V allow wider elastic deformation  $\Delta W$  than any O-Ring of comparable cross section



| ENERSPRING V AISI 301 deformation/load |                  |      |     |                                   |                         |
|--|------------------|------|-----|-----------------------------------|-------------------------|
| Size                                   | T<br>$\pm 0.013$ | H    | W   | AISI 302<br>max.<br>$\Delta W$ mm | Spring load F in N/mm   |
|  |                  |      |     |                                   | $F = K \times \Delta W$ |
|  |                  |      |     |                                   | K = N/mm <sup>2</sup>   |
| G                                      | 0,08             | 1,05 | 1,2 | 0,4                               | 2,7                     |
| L                                      | 0,10             | 2,0  | 2,2 | 0,9                               | 1,4                     |
|  | 0,13             | 2,0  | 1,8 | 0,8                               | 2,4                     |
| H                                      | 0,10             | 2,65 | 2,5 | 1,4                               | 0,7                     |
|  |                  | 2,5  | 3,0 |                                   |                         |
|  | 0,15             | 2,7  | 2,6 | 1,3                               | 1,6                     |
| N                                      | 0,15             | 4,5  | 3,7 | 2                                 | 0,55                    |
|  |                  | 4,3  | 4,5 |                                   |                         |



|   |      |     |     |     |     |
|---|------|-----|-----|-----|-----|
|   |      | 4,2 | 5,0 |     |     |
|   |      | 4,0 | 6,0 |     |     |
|   | 0,20 | 4,5 | 3,7 |     | 1   |
|   |      | 4,3 | 4,5 |     |     |
|   |      | 4,2 | 5,0 |     |     |
|   |      | 4,0 | 6,0 |     |     |
| M | 0,20 | 6,1 | 5,0 | 2,5 | 0,5 |
|   |      | 6,0 | 6,0 |     |     |
|   |      | 5,7 | 6,5 |     |     |
|   | 0,25 | 6,0 | 6,2 |     | 0,8 |