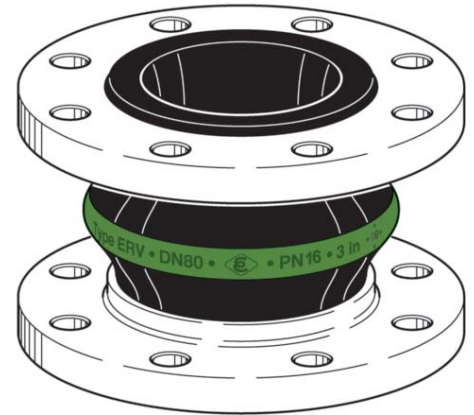




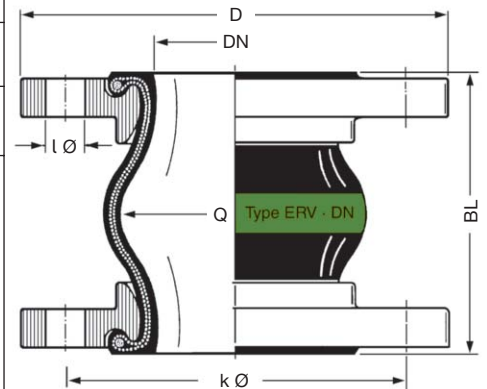
| Section<br>1 | Weight<br>≈ kg | Effect.<br>Area<br>Q [cm <sup>2</sup> ] | Size<br>DN |     | Press<br>bar | Flanges <sup>1)</sup><br>Measurements [mm] |         |               | Length<br>mm<br>BL | Part <sup>1)</sup><br>Number<br>Type |
|--------------|----------------|---|------------|-----|--------------|--|---------|---------------|--------------------|--------------------------------------|
|              |                |   | in.        | mm  |              | D  | k Ø     | l x Ø         |                    |                                      |
|              | 1,9            | 15                                      | 1"         | 25  | 16           | 115  | 85      | 4 x 14        | 130                | ERV-GR 25.16 <sup>2)</sup>           |
|              | 3,4            | 15                                      | 1 1/4"     | 32  |              | 140  | 100     | 4 x 18        |                    | ERV-GR 32.16                         |
|              | 4,0            | 20                                      | 1 1/2"     | 40  |              | 150  | 110     |               |                    | ERV-GR 40.16                         |
|              | 4,6            | 30                                      | 2"         | 50  |              | 165  | 125     |               |                    | ERV-GR 50.16                         |
|              | 5,3            | 50                                      | 2 1/2"     | 65  |              | 185  | 145     |               |                    | ERV-GR 65.16                         |
|              | 6,9            | 85                                      | 3"         | 80  |              | 200  | 160     | 8 x 18        |                    | ERV-GR 80.16                         |
|              | 8,0            | 125                                     | 4"         | 100 |              | 220  | 180     |               |                    | ERV-GR 100.16                        |
|              | 9,9            | 185                                     | 5"         | 125 |              | 250  | 210     |               |                    | ERV-GR 125.16                        |
|              | 12,3           | 250                                     | 6"         | 150 |              | 285  | 240     | 8 x 22        |                    | ERV-GR 150.16                        |
|              | 16,5           | 400                                     | 8"         | 200 |              | 340  | 295     |               |                    | ERV-GR 200.10                        |
|              | 21,6           | 600                                     | 10"        | 250 | 395          | 350  | 12 x 22 | ERV-GR 250.10 |                    |                                      |
|              | 29,3           | 800                                     | 12"        | 300 | 445          | 400  |         | ERV-GR 300.10 |                    |                                      |
|              | 43,0           | 1000                                    | 14"        | 350 | 505          | 460  | 16 x 22 | ERV-GR 350.10 |                    |                                      |
|              | 46,0           | 1375                                    | 16"        | 400 | 565          | 515  |         | 16 x 26       | ERV-GR 400.10      |                                      |
|              | 57,0           | 2185                                    | 20"        | 500 | 10           | 670  | 620     | 20 x 26       | 200                | ERV-GR 500.10                        |
|              | 70,0           | 3080                                    | 24"        | 600 |              | 780  | 725     | 20 x 30       |                    | ERV-GR 600.10                        |
|              | 117,0          | 4800                                    | 28"        | 700 |              | 895  | 840     | 24 x 30       |                    | ERV-GR 700.10                        |

## Type ERV-GR



**GREEN BAND** expansion joints for chemicals, acids, alkalis and aggressive chemical waste water. For oil-contaminated compressed air up to +90°C. Temperature range (depending on medium) -20°C up to +100°C, temporarily up to 110°C. Electrically non-conductive.

- Liner : Hypalon (CSM), seamless, high abrasion resistance
- Reinforcement : PA textile cord
- Cover : Hypalon (CSM)
- Marking : Green band, ERV DN ..., PN ..., production date
- Flanges <sup>1)</sup> : Swiveling, PN 10/16, carbon steel, zinc plated



1) Examples. - Other flange standards and materials see catalogue pages 1-31/3.

2) For rubber expansion joints DN 25 bellows DN 32 are used.

## Range of Movement Type ERV-GR

| ERV-GR         |                     | installation length |              | Allowable static range of movement in service with usage of collar flanges up to 50° C |             |         |         |
|----------------|---------------------|---------------------|--------------|--|-------------|---------|---------|
|                |                     | EL min. [mm]        | EL max. [mm] | L min. [mm]  | L max. [mm] | I [mm]  | angular |
| Length BL [mm] | Bellow Size DN [mm] |                     |              | axial  |             | lateral |         |
| 130            | 25 - 80             | 120                 | 135          | 100  | 150         | ± 30    | ± 30    |
|                | 100 - 150           | 120                 | 135          | 100  | 150         | ± 30    | ± 20    |
|                | 200                 | 115                 | 140          | 105  | 160         | ± 30    | ± 10    |
|                | 250 - 300           | 125                 | 140          | 120  | 160         | ± 15    | ± 5     |
| 200            | 350 - 600           | 190                 | 210          | 160  | 235         | ± 30    | ± 8     |

## Permissible Vacuum [mbar]

| DN                | 32   | 40   | 50   | 65   | 80   | 100  | 125  | 150  | 200  | 250  | 300  | 350  | 400  | 500  | 600  | 700 | 800 | 900 | 1000 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|------|
| without VSD / VSR | max. | max. | max. | -700 | -600 | -400 | -300 | -300 | -300 | -200 | -100 |      |      |      |      |     |     |     |      |
| with VSD          |      |      | max. | max. | max. | max. | max. | max. | -600 | -400 | -200 |      |      |      |      |     |     |     |      |
| with VSR          |      |      |      |      |      |      | max. | max. | max. | max. | max. | max. | max. | -700 | -700 |     |     |     |      |
| with VSRV         |      |      |      |      |      |      |      |      |      |      |      |      |      | max. | max. |     |     |     |      |

Data measured at room temperature with new expansion joints and non swelling media. For swelling media use a safety factor. A compressed installation improves the in the table listed vacuum resistance. The maximum permissible elongation (L max.) reduces the vacuum resistance by 50%. For this case we recommend to use vacuum support spirals or vacuum support rings (see catalogue page 1-36).

Dependencies of overpressure, range of movement and temperature please see table on catalogue page 1-6.

## Approvals

This certificate for type ERV-GR can be downloaded from [www.flexej.co.uk](http://www.flexej.co.uk)



Overview of all certificates on catalogue page 1-2