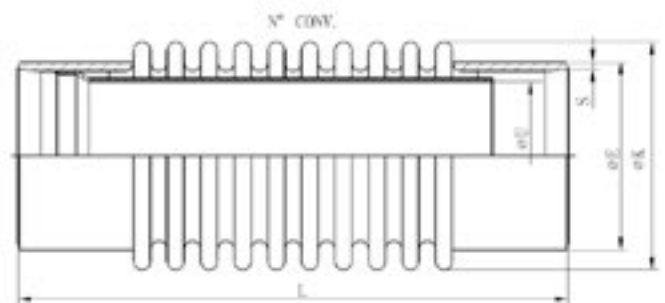


## METAL EXPANSION JOINT, WELDING ENDS

### Features

- Metal Expansion Joint.
- Made of Stainless Steel AISI 1.4301 (AISI 304).
- Welding ends.
- Reduced vibration.
- Inner Sleeve to avoid excessive load losses and possible product accumulation inside the bellows which could reduce work capacity.
- Unidirectional design (see arrow of flow direction).
- Max. Working pressure 10 bar.
- Max. Working temperature 300 °C.



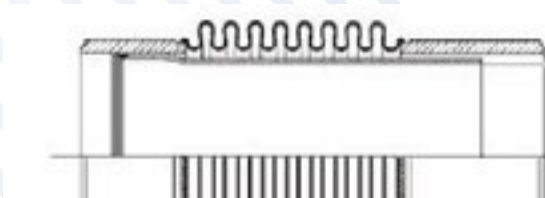
| N° | Name         | Material               | Surface Treatment |
|----|--------------|------------------------|-------------------|
| 1  | End Pipe     | S.S. 304               | -----             |
| 2  | Bellows      | Stainless Steel 1.4301 | -----             |
| 3  | Inner Sleeve | Stainless Steel 1.4301 | -----             |

## GENERAL DIMENSIONS

| Nominal Size In. | DN  | PSI | Dimensions (mm) |     |           |     |     | WEIGHT (Kg) | Ordering Code |
|------------------|-----|-----|-----------------|-----|-----------|-----|-----|-------------|---------------|
|                  |     |     | Nº Conv.        | Ø U | Ø E x S   | Ø K | L   |             |               |
| 1½"              | 40  | 10  | 10              | 31  | 48.3x3.5  | 56  | 200 | 0.750       | 2834 08       |
| 2"               | 50  | 10  | 10              | 41  | 60.3x4    | 70  | 275 | 1.500       | 2834 09       |
| 2½"              | 65  | 10  | 10              | 56  | 76.1x4    | 90  | 275 | 1.900       | 2834 10       |
| 3"               | 80  | 10  | 10              | 72  | 88.9x4    | 108 | 275 | 2.400       | 2834 11       |
| 4"               | 100 | 10  | 10              | 92  | 114.3x4   | 137 | 300 | 3.400       | 2834 12       |
| 5"               | 125 | 10  | 10              | 124 | 139.7x4   | 167 | 300 | 4.400       | 2834 13       |
| 6"               | 150 | 10  | 10              | 140 | 168.3x4.5 | 193 | 350 | 7.200       | 2834 14       |
| 8"               | 200 | 10  | 8               | 190 | 219.1x5.9 | 250 | 350 | 10.600      | 2834 16       |

## PERFORMANCE PARAMETER

| Nominal Size In. | DN  | Working Pressure (bar) | Working Temperature (°C) | Axial compensation in different cycle (mm) |             |              | Axial Stiffness ( N/mm ) | Ordering Code |
|------------------|-----|------------------------|--------------------------|--------------------------------------------|-------------|--------------|--------------------------|---------------|
|                  |     |                        |                          | ≤1000 Cycle                                | ≤5000 Cycle | ≤10000 Cycle |                          |               |
| 1½"              | 40  | 10                     | 300                      | ±11                                        | ±7          | ±6           | 83                       | 2834 08       |
| 2"               | 50  |                        |                          | ±19                                        | ±11         | ±10          | 97                       | 2834 09       |
| 2½"              | 65  |                        |                          | ±22                                        | ±12         | ±11          | 140                      | 2834 10       |
| 3"               | 80  |                        |                          | ±25                                        | ±14         | ±12          | 87                       | 2834 11       |
| 4"               | 100 |                        |                          | ±42                                        | ±24         | ±21          | 182                      | 2834 12       |
| 5"               | 125 |                        |                          | ±47                                        | ±26         | ±22          | 179                      | 2834 13       |
| 6"               | 150 |                        |                          | ±53                                        | ±30         | ±26          | 214                      | 2834 14       |
| 8"               | 200 |                        |                          | ±60                                        | ±34         | ±29          | 400                      | 2834 16       |



→ Flow direction

Inner Sleeve detail

### Kv VALUES

Kv = Flow rate of water in cubic meter per hour (m<sup>3</sup>/h) generating a pressure drop of 1 bar across the expansion joint.

| 1½" | 2"  | 2½" | 3"  | 4"  | 5"   | 6"   | 8"   |
|-----|-----|-----|-----|-----|------|------|------|
| 63  | 114 | 248 | 445 | 748 | 1989 | 2120 | 4630 |

### PRESSURE TEMPERATURE RATING

