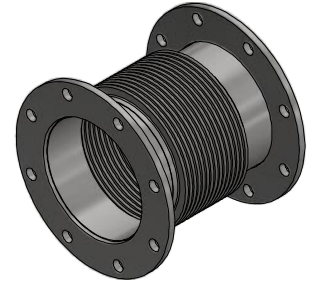
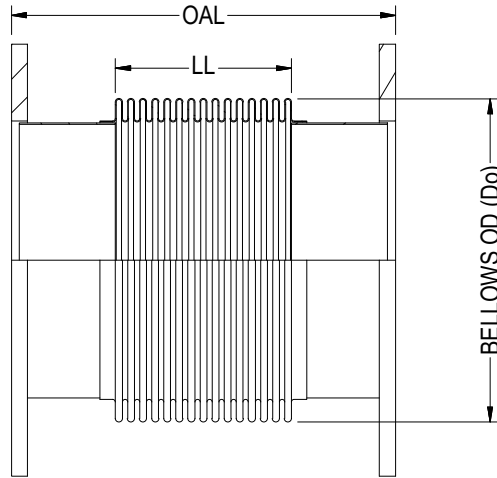


# TYPE SU-01



ISOMETRIC VIEW

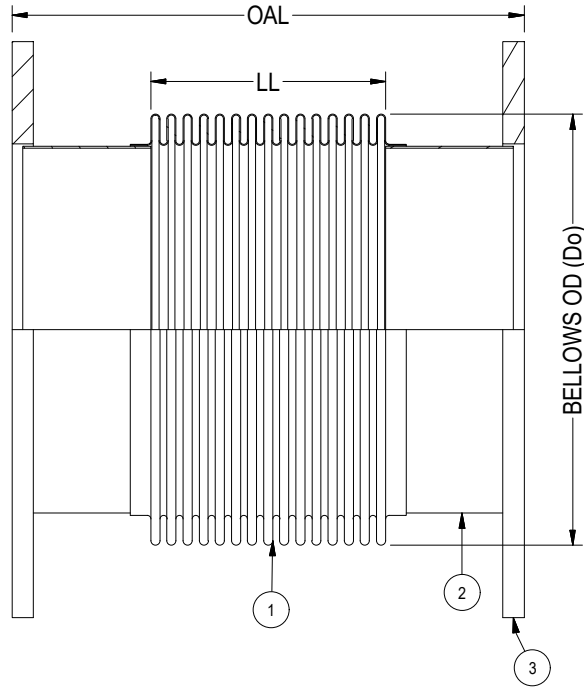
| PIPE SIZE | BELLOWS OD (Do) | LIVE LENGTH (LL) | OVERALL LENGTH (OAL) |
|-----------|-----------------|------------------|----------------------|
| 2         | 3.10            | 2.00             | 6.00                 |
| 2         | 3.10            | 6.00             | 12.00                |
| 2-1/2     | 3.70            | 2.00             | 6.00                 |
| 2-1/2     | 3.70            | 6.00             | 12.00                |
| 3         | 4.40            | 2.00             | 6.00                 |
| 3         | 4.40            | 6.00             | 12.00                |
| 4         | 5.36            | 2.50             | 6.00                 |
| 4         | 5.36            | 5.50             | 12.00                |
| 4         | 5.15            | 9.00             | 18.00                |
| 5         | 6.70            | 3.00             | 8.00                 |
| 5         | 6.55            | 5.50             | 12.00                |
| 6         | 7.70            | 3.00             | 8.00                 |
| 6         | 7.63            | 5.50             | 12.00                |
| 8         | 10.10           | 4.13             | 8.00                 |
| 8         | 10.10           | 5.50             | 12.00                |
| 10        | 12.00           | 2.00             | 4.00                 |
| 10        | 12.10           | 4.00             | 8.00                 |
| 10        | 12.00           | 5.50             | 12.00                |
| 12        | 14.80           | 6.00             | 12.00                |
| 12        | 14.00           | 8.00             | 18.00                |
| 12        | 14.30           | 13.50            | 23.00                |
| 14        | 16.30           | 1.25             | 4.50                 |
| 14        | 16.00           | 4.50             | 12.00                |

| PIPE SIZE | BELLOWS OD (Do) | LIVE LENGTH (LL) | OVERALL LENGTH (OAL) |
|-----------|-----------------|------------------|----------------------|
| 14        | 15.75           | 13.00            | 23.00                |
| 16        | 17.75           | 8.00             | 16.00                |
| 16        | 17.75           | 13.50            | 23.00                |
| 18        | 20.20           | 4.00             | 12.00                |
| 18        | 20.20           | 10.00            | 18.00                |
| 18        | 20.20           | 13.00            | 23.00                |
| 20        | 22.00           | 4.00             | 6.00                 |
| 20        | 22.25           | 4.50             | 12.00                |
| 20        | 21.91           | 9.00             | 18.00                |
| 20        | 21.75           | 13.50            | 23.00                |
| 24        | 25.90           | 4.50             | 12.00                |
| 24        | 26.00           | 12.00            | 18.00                |
| 24        | 26.00           | 13.00            | 22.00                |
| 24        | 25.75           | 20.00            | 36.00                |
| 26        | 27.75           | 14.00            | 22.00                |
| 26        | 27.75           | 18.00            | 30.00                |
| 28        | 30.70           | 12.50            | 24.00                |
| 30        | 31.75           | 4.00             | 10.00                |
| 30        | 32.00           | 8.00             | 16.00                |
| 30        | 31.75           | 18.00            | 29.00                |
| 36        | 38.25           | 2.50             | 7.00                 |
| 36        | 38.40           | 6.00             | 12.00                |
| 36        | 37.97           | 9.00             | 17.00                |

**NOTES:**

1. FLANGES ARE OF 150# LW PLT-1/2" THK. (ANSI B16.5 BOLT PATTERN)
2. FLANGE MATERIAL: ASTM A-36. FOR OTHER OPTIONAL MATERIAL PLEASE CONTACT BSI.
3. OAL IS BASED ON LIVE LENGTH. FOR OTHER OPTIONAL LENGTH PLEASE PROVIDE THEM IN THE SPECIFICATION SHEET.
4. BELLOWS MATERIAL: ASTM A-240 GRADE 321. OTHER MATERIALS (STAINLESS STEEL, NICKEL ALLOYS ETC.) ARE AVAILABLE ON REQUEST.
5. AVAILABLE IN 1 PLY, 2 PLY (STD) OR 3 PLY DESIGNS.
6. SPECIFY DESIGN/OPERATING PRESSURE & TEMPERATURE IN PAGE 2.
7. FOR MOVEMENTS AND LIFE CYCLE REFER TO BELLOWS CATALOG OR CONTACT BSI ENGINEERING.

|  |                  |            |     |  |                       |   |                          |
|--|------------------|------------|-----|--|-----------------------|---|--------------------------|
|  |                  |            |     |  <b>Bellows Systems</b> |                       | BELLOWS SYSTEMS, INC.<br>Houston, TX<br>www.bellows-systems.com |                          |
|  |                  |            |     |  |                       | SINGLE EXPANSION JOINT<br>STD. TYPE SU-01 W/ 150# LW PLT FLG    |                          |
| REV.   | DESCRIPTION      | DATE:      | BY: | CHKD:  | APPD:                 | CAGE CODE: 22727  |                          |
| E  | UPDATED TYPE NO. | 11/8/2023  | UG  |  |                       |   |                          |
| D  | UPDATED NOTES    | 09/11/2023 | UG  |  |                       |   |                          |
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|  |                  |            |     |  |                       | DRAWING NUMBER: 130-CAT-0001                                    | SHEET#: 1 OF 2<br>REV. E |



|   |                       | 1 | 2 | 3 | 4 |
|---|-----------------------|---|---|---|---|
| <b>DIM.:</b>  | PIPE/ NOMINAL SIZE:   |   |   |   |   |
|   | OVERALL LENGTH (OAL): |   |   |   |   |
| <b>DESIGN:</b>  | PRESSURE:             |   |   |   |   |
|   | TEMPERATURE:          |   |   |   |   |
| <b>MOV. &amp; LIFE CYLS:</b>  | AXIAL COMPRESSION:    |   |   |   |   |
|   | AXIAL EXPANSION:      |   |   |   |   |
|   | LATERAL:              |   |   |   |   |
|   | ANGULAR:              |   |   |   |   |
|   | NO. OF CYCLES:        |   |   |   |   |
| <b>MATL'S:</b>  | ① BELLOWS:            |   |   |   |   |
|   | ② WELD NECK:          |   |   |   |   |
|   | ③ FLANGE:             |   |   |   |   |
| <b>DESIGN CODES/STANDARDS:</b><br>(EJMA/ ASME SECT VII DIV I/ ASME B 31.1/ ASME B 31.3) |                       |   |   |   |   |
| <b>APPLICATION NOTES:</b>   |                       |   |   |   |   |
| <b>QUANTITY:</b>  |                       |   |   |   |   |

**OPTIONAL FEATURES:**

1. FLOW LINER (SEE TYPE-21).
2. FIXED & FLOATING FLANGE (SEE TYPE-31).
3. CONTROL RODS (SEE TYPE-41).
4. EXTERNAL COVER.

|  |             |                        |                    |                  |                 |   |                              |                |        |
|--|-------------|------------------------|--------------------|------------------|-----------------|---|------------------------------|----------------|--------|
|    |             |                        |                    |                  |                 | <b>BELLOWS SYSTEMS, INC.</b><br>Houston, TX<br><a href="http://www.bellows-systems.com">www.bellows-systems.com</a> |                              |                |        |
|  |             |                        |                    |                  |                 | SINGLE EXPANSION JOINT<br>TYPE SU-01 SPECIFICATION SHEET  |                              |                |        |
| REV.   | DESCRIPTION | DATE:                  | BY:                | CHKD:            | APPD:           | CAGE CODE: 22727  | DRAWING NUMBER: 130-CAT-0001 | SHEET#: 2 OF 2 | REV. E |
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