FLEXZORBER
THE MOTION ABZORBER
Flex-Hose Co.’s FLEXZORBER rubber connectors and expansion joints are capable of handling the following movements:

- Axial Compensation
- Axial Deflection
- Parallel Offset
- Angular Deflection
- Vibration

### Features and Benefits

The FLEXZORBER styles NNS, NND, and NNRD expansion joints are designed to provide cost-effective solutions to reducing pipeline stress. Expansion joints are precision machined under high pressure to ensure joint integrity. The integral rubber flanges are manufactured with an neoprene tube which provides resistance to a wide variety of media including glycol applications.

Control units consist of two or more tie rods connecting mating flanges. The control units prevent damage due to excessive connecting mating flanges.

### Control Units

- Control units prevent damage due to excessive movement.
- Units are not designed as a replacement for proper pipeline anchoring.
- Additional protection against over-compression has been controlled by installation of pipe spacers.
- Each control unit end plate is triangular with three holes drilling. The holes both enhance and provide security to flanges. The final holes are commensurate with the gasket connection to the tie rod.
- Rubber washers between the plate, rod head, and rod make substantially more resistance to vibration.

### Reinforcement

The integral rubber flange valve main retaining ring is attached against facing flanges.

### FLEXZORBER Rubber Connectors and Expansion Joints

- **Flex-Hose Co.**'s FLEXZORBER rubber connectors and expansion joints are capable of handling the following movements.

### Table: FLEXZORBER Rubber Connectors and Expansion Joints

| I.D. LENGTH (PSI) RATING COMPRESSION EXTENSION PARALLEL ANGULAR WT. |
|---|---|---|---|---|---|---|---|---|
| 1.5 | 8 | 150 | 150 | 167⁄8 | 1⁄4 | 7⁄8 | 45° | 4 |
| 1.25 | 8 | 150 | 150 | 167⁄8 | 1⁄4 | 7⁄8 | 45° | 3 |
| 1.0 | 8 | 150 | 150 | 167⁄8 | 1⁄4 | 7⁄8 | 45° | 3 |
| 3⁄4 | 8 | 150 | 150 | 167⁄8 | 1⁄4 | 7⁄8 | 45° | 2 |
| 1.0 | 8 | 150 | 150 | 167⁄8 | 1⁄4 | 7⁄8 | 45° | 3 |
| 0.75 | 8 | 150 | 150 | 167⁄8 | 1⁄4 | 7⁄8 | 45° | 2 |
| 0.625 | 8 | 150 | 150 | 167⁄8 | 1⁄4 | 7⁄8 | 45° | 1.5 |

### Note:

- Sizes available up to 12" I.D.
- Consult factory for materials such as rubber, cover, neoprene face, and gaskets.
Design Variations

**Tapered**

Flex-Hose Co.’s Tapered expansion joints can be designed to connect piping of unequal diameters.

**Multiple Arch**

Standard joint with two or three arches. Recommended for greater movement where face-to-face dimensions are not limited.

**Flexible Rubber Pipe**

Flexible rubber pipe is used to control vibration and reduce noise from pumps, compressors, etc. Also available in slip-on ends for low pressures.

**Metal Retaining Rings**

Retaining rings must be used with all rubber flange applications. Retaining rings are installed on the back side of the expansion joint rubber flange and are utilized to distribute joint pressure evenly. Standard material is ASTM A-36 carbon steel, 3/8" thick. Alternate materials are available upon request.

**INSTALLATION GUIDELINES**

Standard joint with two or three arches. Recommended for greater movement where face-to-face dimensions are not limited.

Flex-Hose Co.’s Tapered expansion joints can be designed to connect piping of unequal diameters.

Flexible rubber pipe is used to control vibration and reduce noise from pumps, compressors, etc. Also available in slip-on ends for low pressures.

Retaining rings must be used with all rubber flange applications. Retaining rings are installed on the back side of the expansion joint rubber flange and are utilized to distribute joint pressure evenly. Standard material is ASTM A-36 carbon steel, 3/8" thick. Alternate materials are available upon request.
Make the Right Connection with our Representative:

Visit us on the web: [www.flexhose.com](http://www.flexhose.com)