

Flexonics Corporation

EXPANSION JOINT DIVISION

1329 S. Third Ave.

Maywood, Illinois

DISTRICT OFFICES

ATLANTA BOSTON CINCINNATI CLEVELAND DETROIT FT. WORTH KANSAS CITY
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IN CANADA: FLEXONICS CORPORATION OF CANADA, LTD., BRAMPTON, ONTARIO

FLEXON EXPANSION COMPENSATORS

FOR STEAM AND HOT WATER HEATING SYSTEMS

Model L for pressures to 60 psig

The Flexon Model L Expansion Compensator consists of a two ply phosphor bronze bellows with copper tube end connections enclosed in a protective shroud of brass. It is especially designed for control of expansion in finned type convectors, baseboard, radiator or heating supply and return lines.

Sizes from $\frac{3}{4}$ in. through 2 in. Suitable for temperatures from -60 F to 250 F and for pressures up to 60 psig. A single unit will handle motion up to $\frac{3}{8}$ in. ($\frac{1}{4}$ in. compression, $\frac{1}{8}$ in. extension). Available with all commonly used fittings.

Model H for pressures to 175 psig

The Flexon Model H Expansion Compensator is used primarily on vertical risers for high pressure steam and hot water lines. However it may also be used on horizontal runs. The Model H consists of a corrosion resistant Flexon Bellows enclosed in an all-welded steel housing. The unit is provided with a positive anti-torque device to prevent possible bellows damage during installation.

Sizes from $\frac{3}{4}$ in. through 3 in. Suitable for temperatures from -60 F to 750 F. Maximum test pressures 50 psi over working pressures shown in table. A single unit will handle motion up to $\frac{1}{4}$ in. ($\frac{1}{8}$ in. compression, $\frac{1}{8}$ in. extension). Mild steel male NPT pipe nipples on both ends are standard. Ground joint unions or weld ends are optional.

FLEXON EXPANSION JOINTS

FOR POWER AND PROCESS PIPING

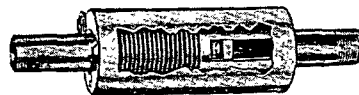
For medium and high pressure piping, Flexonics offers a complete line of corrugated expansion joints in free-flexing and controlled flexing types. Free-flexing units are available in standard sizes from 3 in. to 48 in. ID, for pressures to 30 psi, temperatures to 850 F. Designed for expansion travel up to $3\frac{3}{4}$ in. per unit.

Controlled-flexing units are available in standard sizes from 3 in. to 48 in. ID, for pressures to 300 psi, temperatures to 850 F. Designed for expansion travel up to $7\frac{1}{2}$ in. per unit. Both free-flexing and controlled flexing types are available with flanged or welding ends.



Sizes and Dimensions

Tube Size (in.)	Overall Length, in.		Max. O.D., in.	
	Sweat Ends	Female Threaded Ends	Sweat Ends	Female Threaded Ends
$\frac{3}{4}$	$5\frac{1}{8}$	$7\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$
1	$6\frac{1}{4}$	$8\frac{3}{4}$	$1\frac{7}{8}$	$1\frac{7}{8}$
$1\frac{1}{4}$	$7\frac{3}{4}$	$9\frac{1}{2}$	$2\frac{1}{4}$	$2\frac{1}{4}$
$1\frac{1}{2}$	$7\frac{7}{8}$	$10\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$
2	$8\frac{3}{4}$	$10\frac{3}{4}$	$3\frac{1}{4}$	$3\frac{1}{4}$



Sizes and Dimensions

Pipe Size (in.)	O/A Length (in.)	Max. O.D. (in.)	Working Press (psi)	Unit Wt. (lb.)
$\frac{3}{4}$	$9\frac{5}{8}$	$2\frac{3}{8}$	175	2.6
1	$9\frac{3}{4}$	$2\frac{3}{4}$	175	2.8
$1\frac{1}{4}$	$13\frac{1}{2}$	$3\frac{1}{2}$	150	7.7
$1\frac{1}{2}$	$13\frac{1}{2}$	$3\frac{1}{2}$	150	8.0
2	$12\frac{3}{4}$	$4\frac{1}{4}$	125	10.3
$2\frac{1}{2}$	$13\frac{1}{2}$	5	125	13.7
3	$14\frac{1}{2}$	$5\frac{1}{2}$	125	17.4

U. S. Flexible Metallic Tubing Co.

Since 1905

Keflex Manufacturing Division

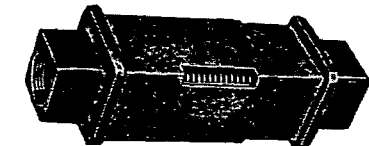
454 East Third St., Los Angeles 13, Calif.

San Francisco 5, Calif.
63 Main St.Division Sales Offices
Portland 9, Oregon
328 N.W. BroadwaySeattle 4, Washington
2425-6th Ave. So.KEFLEX QUADRA-SIDE
TELESCOPIC EXPANSION COMPENSATORS

Provide Maximum Movement in Minimum Space. Low Anchor Load Requirement Reduces Installation Cost. Industry Benefits from Aircraft Engineering and Research.

ROUND

KEFLEX Bellows are made of Laminated Stainless Steel, multiple ply (usually 2 ply or more) for greater strength with minimum force required to move bellows. The minimum force to move 7 Q Keflex Bellows greatly reduces the need for additional anchoring above that required to handle line pressure thrust force as the force to move Keflex 7 Q only is always less than 100 lb.



Type 7Q

Pat.
Pending

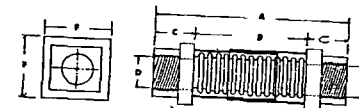
FLAT

KEFLEX FLAT GUIDES offer so many advantages it is difficult to mention them all. Briefly: The KEFLEX FLAT OUTSIDE GUIDE (shroud) is made of brass USUALLY formed square of required length—one unit end will telescope over other unit end. The flat surfaces slide over and in one another—practically eliminating possibility of torque as result of faulty installation. This ASSISTS PROPER GUIDING.

STANDARD UNITS

Pressure 300 psi
Temperature 800 F
Compression Force Less than 100 lb

KEFLEX DATA



For: 1.50 in. Axial Travel

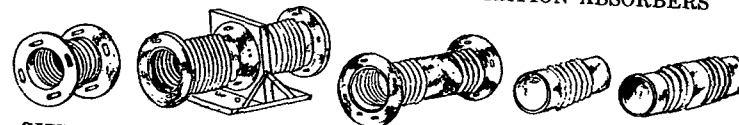
D Nom. IPS	A Overall Length	B Live Length	C Comp. Len.	F. Max OD
$\frac{3}{4}$ -1.00-1.25"	6.50"	4.00"	1.25"	2.00"
1.50	6.50	4.00	1.25	2.50
2.00	6.50	4.00	1.25	3.00
2.50	6.50	4.00	1.25	3.50
3.00	6.50	4.00	1.25	4.00

KEFLEX SQUARE END FITTINGS are made of heavy, non-porous, square, bronze stock, and threaded tapered female pipe size. They are attached to the KEFLEX 7 Q bellows and the outside guides by silver brazing. The result is an easy moving expansion joint that will absorb either the slightest or the greatest thermal pipe expansion and with practically no load on the anchors. The heavy bronze ends, which will not crush during normal installations, assures safe and leakproof joints.

Eliminates copper pipe buckling. Ask for Bulletin KQ-1

For $\frac{3}{4}$ in. axial travel overall length A 4.50 in. other dimensions same as above.

KEFLEX EXPANSION JOINTS—AND VIBRATION ABSORBERS



SIZES 1.25" ID TO 36.00" ID LARGER TO FIT JOB REQUIREMENT