Chicago Metal Hose Corporation

EXPANSION JOINT DIVISION

Maywood, Illinois

District Offices

Atlanta Boston Chicago Cleveland Detroit Ft. Worth
Los Angeles New York Philadelphia Pittsburgh San Francisco

In Canada: Canadian Metal Hose Company, Ltd., Brampton, Ontario

CMH CONTROLLED-FLEXING EXPANSION JOINTS

For pressures up to 300 psi—temperatures to 1600 F

The control rings of CMH Controlled-Flexing Expansion Joints provide guided flexing of the joint and prevent any permanent deformation of corrugations. Control rings are firmly anchored into corrugations to close working dimension tolerances. Expansion travel up to 7½ in. may be secured with a single CMH Expansion Joint.

Standard sizes from 3 in. to 30 in. I.D. in either stainless steel or copper. Available with or without stainless steel internal sleeves.



CMH Controlled-Flexing Expansion Joint with flanged ends.



CMH Controlled-Flexing Expansion Joint with Welding Ends.

CMH FREE-FLEXING EXPANSION JOINTS

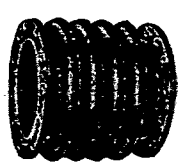
For pressures up to 30 psi . . . temperatures to 1600 F

CMH Free-Flexing Expansion Joints are made with single or multiple corrugations. Designed for expansion travel up to 1 in. per unit. Additionally, misalignment correction or offset motion is calculated at $\frac{1}{16}$ in. per corrugation when two or more corrugations are used.

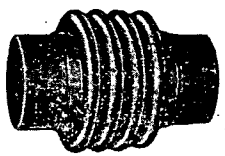
Standard sizes from 3 in. to 30 in. I.D. in either stainless steel or copper. Available with or without stainless steel internal sleeves.



Single Corrugation CMH Free-Flexing Expansion Joint with flanged Ends.



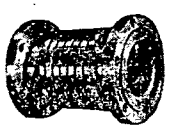
CMH Free-Flexing Expansion Joint with multiple corrugations and flanged ends.



CMH Free-Flexing Expansion Joint with welding ends.

CMH FLEXONIFLEX EXPANSION JOINTS

For pressures to 1500 psi . . . temperatures to 1600°F



CMH FLEXONIFLEX units make it possible to utilize the expansion joint's advantages of compactness and simplicity of installation at pressures far beyond those which had previously been considered safe. 1500 psi is a nominal pressure, units already having been designed and made for pressures well in excess of this.

Standard FLEXONIFLEX units have stainless steel pressure carriers of the bellows type formed within integral control rings and end sections. They are available in single or multiple ply, lined or unlined. Sizes range from ⅜-in. through the normal range of high pressure pipe sizes.

Arthur Harris & Co.

210–218 N. Aberdeen Street **Chicago 7, Ill.**

ENGINEERS AND BRONZE FOUNDERS—FABRICATORS OF NON-FERROUS METALS AND STAINLESS STEEL

Metals Fabricated—Aluminum, Block Tin, Brass, Bronze, Copper, Everdur, Monel. Nickel, Inconel, Stainless Steel and KA2 SMO. Bulletin on request.

Bends



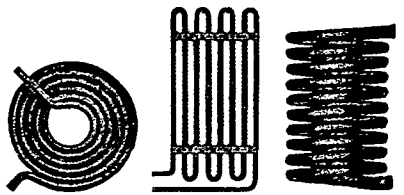
We make bends in every shape from all sizes of copper tube, pipe and tubing in copper, brass, aluminum, stainless steel, monel, tin and nickel. Standard or special connections. U-bends for storage water heaters.

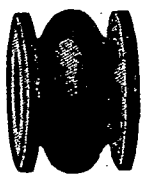
Also special pipe work for industrial installations, plumbing, heating and brewing.

Non-Ferrous Castings—"Dairywhite" nickel silver for Process Industries Equipment. Suitable for milk and food products machinery. Castings also of 88-10-2. 80-10-10, 85-5-5-5, silicon bronze and manganese bronze, and special mixtures.

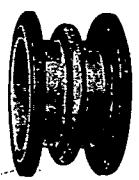
Coils

For heating, cooling and condensing. All shapes made from any size pipe or tube—standard or special connections, of copper, brass, aluminum, stainless steel, KA2 SMO, monel, inconel, nickel, block tin, and Everdur.





B-280 Convex



B-290 Convex

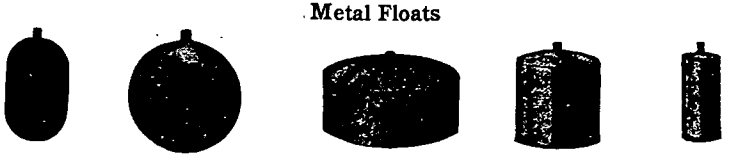


B-281 Concave

Copper Expansion Joints

For low pressure and vacuum. Made in two styles—convex and concave. Sizes 4 in. to 60 in. diameter. Cast iron or steel flanges. Flanges drilled to American standard unless otherwise ordered: B-290 available only in sizes 4 in. to 15 in. inclusive.

Metal Floats



Column *Ball* *Flat Cylindrical* *Cylindrical* *Cylindrical*

Made of copper, plain steel, copper plated steel, stainless steel, KA2 SMO, aluminum, brass, Monel, pure nickel, Admiralty and Everdur, for open tank and all pressures.

Seamless copper ball floats carried in stock in diameters of 3 in., 4 in., 5 in., 6 in., 7 in., 8 in., 10 in., 12 in. for open tank and pressures of 25, 50, 100 and 150 lb. Floats in special sizes and pressures—made to order. Stainless steel ball floats 2½ in. to 12 in. for high pressure and corrosion carried in stock—special stainless steel floats made to order—stainless steel ball floats larger than 12 in. diameter can be made up specially. Float catalog sent on request.