ESTABLISHED 1841

E. B. Badger & Sons Co.

Manufacturers of Expansion Joints for High and Low Pressure

OFFICE AND WORKS
63-75 Pitts Street, BOSTON, MASS.

SALES OFFICE
101 Park Avenue, NEW YORK

Badger Self-Equalizing Expansion Joints

The Badger Self-Equalizing Expansion Joints are made from special seamless copper tubing, fitted with cast iron or steel rings to control the expansion and provide equal distribution over each corrugation.

The joint is made in Standard and Extra Heavy patterns, and unless otherwise specified will be furnished with standard flanges for pressure up to 125 pounds and extra heavy flanges for all pressures from 125 pounds to 200 pounds.

Monel metal sleeves can be furnished fitting inside of the corrugations, for use with super-heated steam and other high temperature fluids, at additional cost.

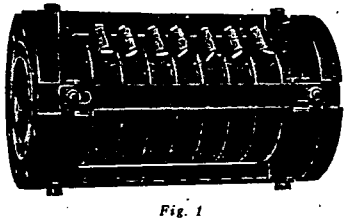


Fig. 1

This type of Joint is furnished in 4 in. and 5 in. sizes, with four and eight corrugations to take 1 in. and 2 in. of expansion. For smaller sizes, we furnish a 4-in. joint with companion flanges, bolts and gaskets, tapped for the size required.

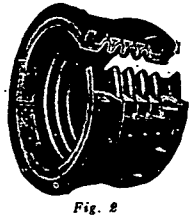


Fig. 2

This type of joint is made in sizes from 6 in. to 20 in. inclusive, with two, three, four or five corrugations, 2¼ in. deep, each corrugation taking ½ in. of expansion.

Specifications on Badger Expansion Joints

Fig. 1

Size Inches	FOUR-CORRUGATION			EIGHT-CORRUGATION			Add to List Prices for Extra Heavy Flanges
	Face to Face Inches	Finished Weight Pounds	Price Each	Face to Face Inches	Finished Weight Pounds	Price Each	
4	12⅜	65	$76.00	19⅜	95	$102.00	$4.60
5	12⅜	78	82.00	19⅜	110	110.00	5.35

For sizes up to 3½ in. inclusive, add $4.00 net to price of 4-in. joint for American Standard 125 pound companion flanges, bolts and gaskets; and $5.00 net for Extra Heavy American Standard flanges, bolts and gaskets, tapped to size required.

Fig. 2

Size Inches	Two Corrugation			Three Corrugation			Four Corrugation			Five Corrugation			Add to List Prices for Ex. Hy. Flanges
	F/F Inches	Fin. wt. Pound	Price Each	F/F Inches	Fin. wt. Pounds	Price Each	F/F Inches	Fin. wt. Pounds	Price Each	F/F Inches	Fin. wt. Pounds	Price Each	
6	12½	146	$126.00	16	200	$155.00	19	236	$187.00	22½	285	$216.00	$ 7.43
8	12½	187	156.00	16	250	188.00	19	293	211.00	22½	345	243.00	13.25
10	12½	258	182.00	16	325	219.00	19	395	254.00	22½	465	291.00	17.05
12	13	338	222.00	16½	410	262.00	19½	493	300.00	23	570	340.00	21.63
14	13½	404	252.00	17	490	296.00	20	576	337.00	23½	660	381.00	24.55
16	13½	476	285.00	17	570	334.00	20	672	382.00	23½	765	431.00	34.15
18	14	546	320.00	17½	645	374.00	21	760	428.00	24	851	483.00	53.84
20	15	669	388.00	18½	765	450.00	21½	911	511.00	24¼	1010	573.00	56.48

Sizes larger than 20 in. can be furnished on special order.

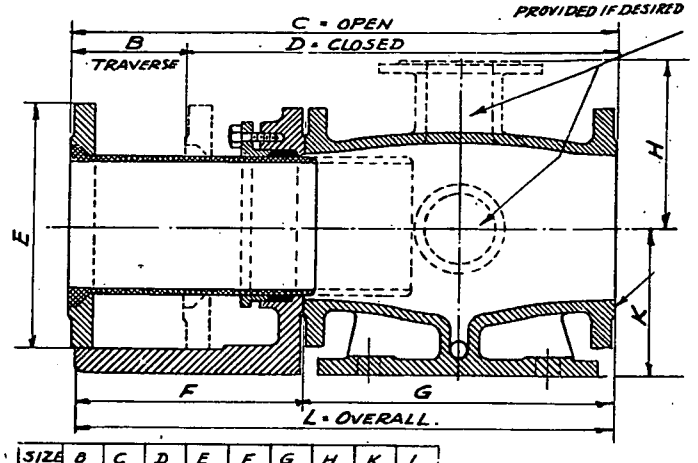
R. W. Sharon Co.

Offices 8060-61 Jenkins Arcade

PITTSBURGH :-: :-: :-: **PENNSYLVANIA**

SOLE MANUFACTURERS

We also manufacture the following articles under the Tyler Patents: Wall Brackets, Pipe Rests, Condensation Meters and Hot Water Meters



SIZE	B	C	D	E	F	G	H	K	L
1½									
2	2½	19⅝	17⅞	6¾	9⅜	10	5	5	19⅝
2½	2½	21⅜	18⅞	7¼	9⅜	11½	5⅛	5⅛	21⅜
3	2¾	23⅜	20⅝	8½	9⅜	13½	6¾	5½	23⅜
3½	3	24⅛	21⅜	9⅛	9⅜	14	7	6	23⅜
4	3¼	24⅜	21⅝	10½	10⅜	14½	7¼	6⅜	24⅜
4½	3½	26⅜	23⅜	10¾	10⅛	16	7⅜	6⅜	26⅜
5	4	28⅜	24⅜	11⅛	10⅞	17	8½	6⅜	27⅜
6	5	30⅜	25⅜	12⅜	11⅜	18	9	8	29⅜
7	6	32⅜	26⅞	14⅛	12⅜	19½	9¾	8½	32⅜
8	7	35⅜	28⅜	15⅛	13⅜	21°	10½	9⅛	34⅜
9	7	36⅜	29⅜	16½	13⅜	22	11	9⅜	35⅜
10	7	37⅜	30⅜	17⅜	13⅜	23½	11⅜	10½	37⅜
12	8	40⅜	32⅜	20¼	14⅜	25½	12⅜	13⅜	40⅜
14	10	45⅜	35⅜	23⅜	16⅜	28½	14⅜	13¾	45⅜
15	10	47⅜	37⅜	24⅜	16⅜	30	15	13⅜	46⅜
16	10	48⅜	38⅜	25⅜	16⅜	31	15½	14½	47⅜
18	10	50⅜	40⅜	28½	16⅜	33	16½	15½	49⅜

Dimension Sheet for Style No. 1 Single Expansion Joint
All dimensions in inches

Specifications given in this Table for estimation purposes only. Working dimensions furnished on request.

Semi-steel construction for pressures up to 250 lbs.

Cast steel construction for pressures in excess of 250 lbs.

Sizes on single and double Expansion Joints larger than 18 in. and up to 36 in. can be furnished.

Tyler Joints never stick

Tyler Guided Single Expansion Joints

Type No. 102—Style No. 1