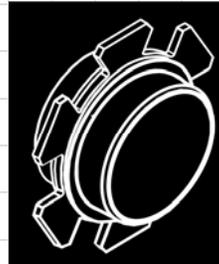


**IN FACT** MADE IN U.S.A. 

INFAC T CORPORATION  
WATERWORKS PRODUCTS



**FOSTER ADAPTOR  
SPECIFICATIONS**

**WATERWORKS  
PRODUCTS**

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# FOSTER ADAPTOR



U. S. Patent No. 5174615, Canadian Pat. 2078799, Mexican Pat. 180410

## BOLT-THRU MECHANICAL JOINT RESTRAINT RESTRAIN MJ VALVES AND FITTINGS TO EACH OTHER



**BOLT-THROUGH  
MJ RESTRAINT**

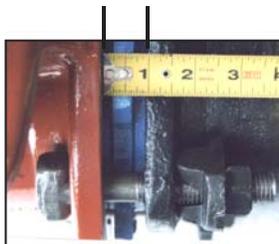
Simple  
Secure

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**PRODUCT APPLICATIONS**

Valves to tees, crosses

90's, 45's other fittings



**APPROXIMATE DRAW-UP LENGTHS**

3 to 12-in	1-inch
14 to 24-in	2-inches
30 to 36-in	3-inches

**PRODUCT BENEFITS**

- 1** No pipe to saw
- 2** Space saving and light-weight
- 3** No possibility of pipe damage since no pipe connection is used
- 4** Secure bolt-through design makes for labor-saving, easy and fast installation
- 5** Made in U.S.A., ductile iron  
3 to 24-inch: 350psi rating  
30 to 36-inch: 250psi rating
- 6** Up to four times fewer bolts to tighten
- 7** Comes complete with all accessories
- 8** Close-coupled connections allow you to pre-assemble valves and fittings, then transport to the job site
- 9** Less chance for leakage. Two MJ's are connected using one accessory kit rather than the standard two
- 10** Available in standard asphalt or epoxy coating. Sizes 14 to 36-inch ship standard with epoxy coating

**COATINGS** Asphalt or Epoxy on sizes 3 to 12-inch; 14-inch and above, epoxy is standard

**ACCESSORY PAKS** Corten included, Teflon® blue and stainless optional  
  
Special Long-bolt Accessory Paks available for C110 full-body fittings and certain butterfly valves with thicker bolt flanges

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ENGINEERING DATA / PRODUCT CHECKLIST

**FOSTER  
ADAPTOR**



U. S. Patent No. 5174615, Canadian Pat. 2078799, Mexican Pat. 180410

**BOLT-THRU  
MECHANICAL JOINT RESTRAINT**  
RESTRAIN MJ VALVES AND FITTINGS TO EACH OTHER



<b>SIZES</b>	3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 30, 36
<b>TYPICAL USES</b>	<p>Restrains valves to tees and valves to crosses</p> <p>Restrains reducers and other fittings to tees or crosses</p> <p>Restrains 90's and other fittings to each other</p>
<b>ADVANTAGES (Product)</b>	<ul style="list-style-type: none"> <li>✓ Tough, BOLT-THROUGH Restraint</li> <li>✓ Takes the place of <u>two</u> bolt-on lug type products</li> <li>✓ No pipe to saw and no lug bolts to tighten</li> <li>✓ Ultra-compact; saves critical space; 1 to 2-inch draw-up length</li> <li>✓ Quicker to install than to saw pipe and tighten up to 4 times more bolts</li> <li>✓ One accessory kit to install (included in price)</li> <li>✓ Integral casting, no welds</li> <li>✓ 14, 16, 18, 20, 24, 30, 36-in epoxy coated — standard</li> </ul>
<p><b>ADVANTAGES (Manufacturer)</b></p> <p>INFAC T PRODUCTS ARE AVAILABLE FROM YOUR LOCAL WATERWORKS DISTRIBUTOR</p>	<ul style="list-style-type: none"> <li>✓ Products made in U. S. A. and Infact is an American-owned company</li> <li>✓ SAME DAY shipping (orders received before noon)</li> <li>✓ BIG inventory; backorders are extremely rare</li> <li>✓ No extra charge to drop ship</li> <li>✓ No minimum order</li> </ul>
<b>WATCH</b>	<p>1) Tees and crosses — Fosters may not fit on <u>both</u> the “branch” and “run” of <u>compact</u> tees or crosses because the longer bolts may obstruct each other. When installing on compact fittings, connect Fosters across from each other, but not at right angles.</p> <p>2) Due to bolt clearance issues, the Foster Adaptor is not recommended for <u>direct</u> connection to hydrant shoes.</p>
<b>OPTIONS</b>	<p>Epoxy adaptors with Corten, Teflon® blue, or stainless steel kits</p> <p>Optional accessory paks (no extra charge):</p> <ol style="list-style-type: none"> <li>1) <i>Long-bolt Paks</i>, to restrain C110 full-bodied fittings, certain butterfly valves, etc. with thicker bolt flanges</li> <li>2) <i>Non-eyebolt Paks</i>, when wide-body resilient wedge valves will definitely not be part of the installation</li> </ol>

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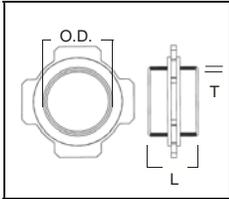
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# FOSTER ADAPTOR

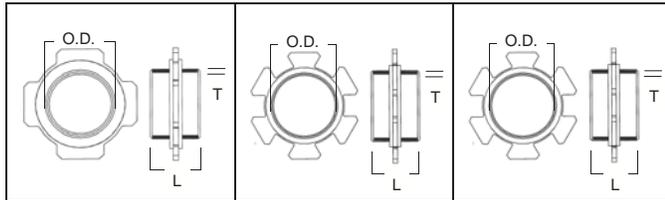


U. S. Patent No. 5174615, Canadian Pat. 2078799, Mexican Pat. 180410

## BOLT-THRU MECHANICAL JOINT RESTRAINT RESTRAIN MJ VALVES AND FITTINGS TO EACH OTHER



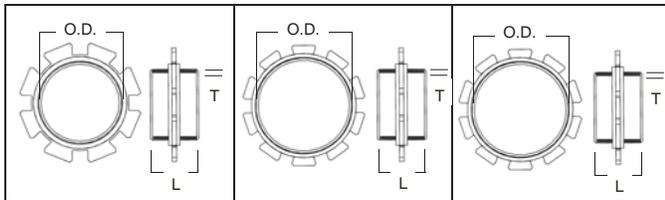
3-INCH



4-INCH

6-INCH

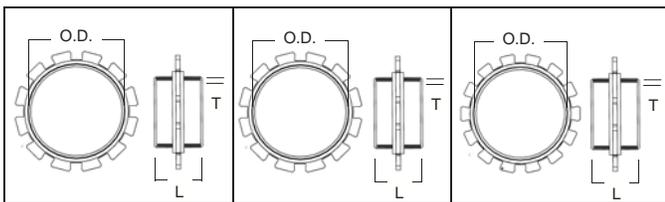
8-INCH



10-INCH

12-INCH

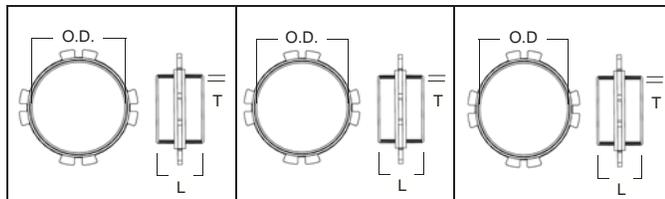
14-INCH



16-INCH

18-INCH

20-INCH



24-INCH

30-INCH

36-INCH

LATEST SIZES ADDED: 3-inch, 30-inch, and 36-inch

SIZE, inches	DIMENSIONS, inches			ADAPTOR Weight	PAK Weight	TOTAL Weight
	O. D.	T	L	lbs.	lbs.	lbs.
<b>3</b>	3.96	.34	4	6	6	12
<b>4</b>	4.80	.35	4	8	6	14
<b>6</b>	6.90	.37	4	15	8	23
<b>8</b>	9.05	.39	4	19	8	27
<b>10</b>	11.10	.40	4	24	12	36
<b>12</b>	13.20	.43	4.5	31	12	43
<b>14</b>	15.30	.48	6.75	55	16	71
<b>16</b>	17.40	.51	6.75	60	16	76
<b>18</b>	19.50	.55	6.75	92	16	108
<b>20</b>	21.60	.58	6.75	101	17	118
<b>24</b>	25.80	.62	6.75	117	18	135
<b>30</b>	32.00	.66	7.75	153	68	221
<b>36</b>	38.30	.75	7.75	220	86	306

Adaptor sizes, dimensions and weights are nominal



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ENGINEERING DATA / SPECIFICATIONS

**FOSTER  
ADAPTOR**



U. S. Patent No. 5174615, Canadian Pat. 2078799, Mexican Pat. 180410

**BOLT-THRU  
MECHANICAL JOINT RESTRAINT  
RESTRAIN MJ VALVES AND FITTINGS TO EACH OTHER**



**STANDARD ADAPTORS, STANDARD ACCESSORIES**

*The Foster Adaptor is a patented product, made in the U. S. A. It meets the ductile iron and working pressure specifications of AWWA compact fittings, ANSI/AWWA C153/A21.53 — American National Standard for Ductile Iron Compact Fittings, 3-Inch Through 36-Inch (76mm Through 914mm) for Water Service.*

**SAMPLE SPECIFICATION:** Mechanical joint (MJ) valves and fittings shall be connected using a bolt-through positive restraint mechanism manufactured of U. S. A. ductile iron conforming to ASTM A536, 80-55-06. The positive restraint device shall connect the valves and/or fittings at a linear distance not to exceed three (3) inches and without attachment to pipe. The device shall come complete with all accessories, including standard styrene butadiene rubber (SBR) MJ gaskets conforming to the latest revision of AWWA C111/ASTM F-477 and weathering steel (Corten) bolts conforming to AWWA C111/A21.11 and ASTM A242. Nuts for 4 through 12-inch sizes shall be SAE Grade 5 steel with black oxide coating. Nuts for 14-inch and larger adaptors shall be heavy hex Corten steel conforming to ASTM A242. Sizes 4-12-inch of the bolt-through MJ positive restraining device shall be supplied with an NSF 61 asphaltic seal coating in accordance with ANSI/AWWA C104/A21.4. Sizes 14-36-inch shall be supplied with NSF 61, 7-mil. fusion bonded epoxy. [Epoxy coating, blue Teflon® coated, and stainless steel hardware are available for all sizes.] The device shall be used with standard mechanical joint fittings (AWWA C110 or C153) and valves. The device shall be Infact Corporation FOSTER ADAPTOR or equal.

**EPOXY ADAPTORS, BLUE FLUOROCARBON (TEFLON®) OR STAINLESS STEEL ACCESSORIES**

*The Foster Adaptor is a patented product, made in the U. S. A. It meets the ductile iron and working pressure specifications of AWWA compact fittings, ANSI/AWWA C153/A21.53 — American National Standard for Ductile Iron Compact Fittings, 3-Inch Through 36-Inch (76mm Through 914mm) for Water Service.*

**SAMPLE SPECIFICATION:** Mechanical joint (MJ) valves and fittings shall be connected using a bolt-through positive restraint mechanism manufactured of U. S. A. ductile iron conforming to ASTM A536, 80-55-06. The positive restraint device shall connect the valves and/or fittings at a linear distance not to exceed three (3) inches and without attachment to pipe. The device shall come complete with all accessories, including standard styrene butadiene rubber (SBR) MJ gaskets conforming to the latest revision of AWWA C111/ASTM F-477 and [stainless steel / blue Teflon® coated] bolts conforming to AWWA C111/A21.11. The bolt-through MJ positive restraining device and the ductile iron spacers shall be supplied with an NSF 61, 7-mil. fusion bonded epoxy. The bolts and nuts shall be ASTM A193 type 304 stainless and the nuts shall be Teflon® coated. The device shall be used with standard mechanical joint fittings (AWWA C110 or C153) and valves. The device shall be Infact Corporation FOSTER ADAPTOR or equal.

**NOTE:** 1) Due to bolt clearance limitations on hydrant connections, the Foster Adaptor is not recommended for direct connection to hydrants. 2) The Adaptor may not fit on both the "branch" and the "run" of compact tees or crosses because of the longer bolts and spacers. Use the Infact Flex Adaptor on the branch and the Foster Adaptor on the run. 3) The *Standard Foster Adaptor Accessory Pak* is for restraining C153 compact fittings and valves. When connecting to C110 full-body fittings, certain butterfly valves, etc. that have thicker bolt flanges, longer bolts may be required. Request *Infact Long-bolt Paks* when you place your order (no extra charge). 4) Other options available: *No-Eyebolt Paks*.



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### Installer's Guide

PRODUCT	DESCRIPTION	INSTALLED DRAW-UP DISTANCE	TYPE OF JOINT		RECOMMENDED APPLICATIONS		
			MJ	FLANGE	VALVES	FITTINGS	HYDRANTS
<b>FOSTER ADAPTOR</b>	Bolt-thru MJ Adaptor 	Sizes 3-12: 1-inch --- Sizes 14-24: 2-inches --- Sizes 30-36: 3-inches	✓		✓	✓	
<b>FLEX T-2</b>	Self-Restraining 2-way Tee 	0 inches --- (Direct Restraint)	✓	✓	✓	✓	
<b>FLEX T-3</b>	Self-Restraining 3-way Tee 	0 inches --- (Direct Restraint)	✓	✓	✓	✓	
<b>FLEX ADAPTOR</b>	Ultra-Compact Coupling 	8 1/2 inches	✓	✓	✓	✓	✓
<b>FLEX REDUCER</b>	Ultra-Compact Reducer 	8 1/2 inches	✓	✓	✓	✓	✓



**WATERWORKS**

# Work-Savers

MADE IN U.S.A.

## FOSTER ADAPTOR

BOLT-THRU MJ RESTRAINT FOR VALVES AND FITTINGS

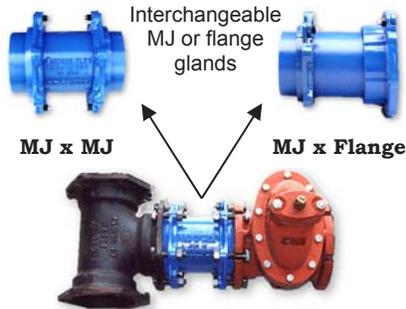


- No pipe to cut
- Up to 75% fewer bolts
- Saves space
- Easier to lift and install

U. S. PATENT NO. 5174615  
CANADIAN PAT. 2078799, MEXICAN PAT. 180410

## FLEX ADAPTOR

EZ-ALIGN MJ OR FLANGE RESTRAINT FOR VALVES AND FITTINGS

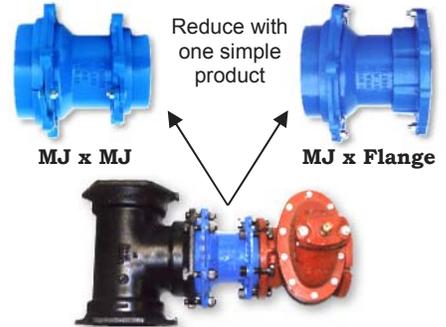


- Rotating and deflecting MJ glands make this the easiest way to align and restrain MJ or flange valves, fittings, and hydrants
- Available in 6-inch MJ x MJ, MJ x flange, flange x flange

U. S. PATENT NO. 6015170

## FLEX REDUCER

SPACE-SAVING MJ OR FLANGE REDUCER FOR VALVES AND FITTINGS



- Save up to 2-feet of space
- Faster, simpler installation
- No pipe to saw or couplings to install, and less chance for leaks

U. S. PATENT NO. 6015170

## FLEX T-2

DIRECT-TO-TEE RESTRAINT FOR MJ OR FLANGE VALVES AND FITTINGS



- Restrain 2 valves or fittings to the T-2
- FAST installation — no couplings needed
- EZ-to-align MJ glands spin and deflect
- MJ x MJ, MJ x flange, or flange x flange
- Same glands fit all Flex products

U. S. PATENT NO. 6015170

## FLEX T-3

DIRECT-TO-TEE RESTRAINT FOR MJ OR FLANGE VALVES AND FITTINGS



- Restrain 3 valves or fittings to the T-3
- Choose MJ or flange glands
- Heavy-duty split glands
- Epoxy coating standard
- Direct-to-tee restraint

U. S. PATENT NO. 6015170

## MUD PLUGS, INSULATION

VALVE BOX DEBRIS PLUGS  
METER BOX, VAULT INSULATION PADS



- Simple push-in, pull-out installation
- Won't absorb water or freeze
- Flexible, non-conductive poly handle

North America's largest  
waterworks insulation manufacturer

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