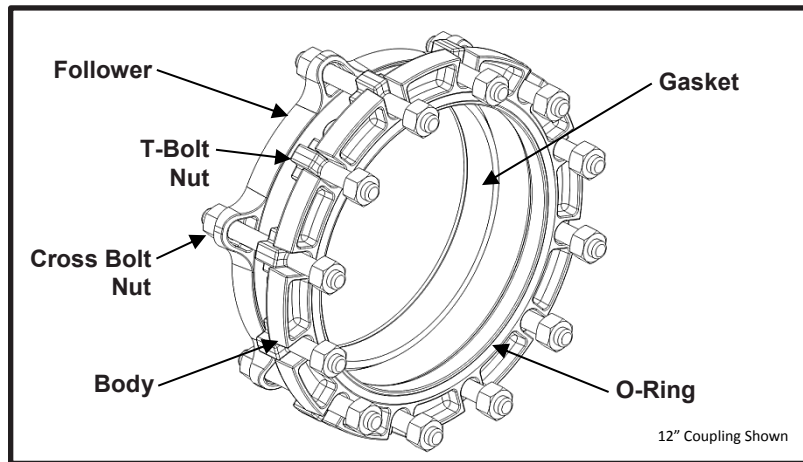


SPECIFICATION

OMNI™ CAST FLANGED COUPLING ADAPTER

MODEL 912-91



APPLICATIONS

- **Typical Uses**
 - Joining plain-end pipe to flanged fittings, meters, valves or other miscellaneous service equipment
 - Replace cracked pipe or spooled flanges
- **Standard Pipe Sizes**
 - 3" to 12" nominal
- **Type of Pipe**
 - Carbon Steel, Stainless Steel, Ductile Iron, Asbestos Cement, PVC, Cast Iron
- **Working Pressure**
 - Up to 250 psi

MATERIALS

- **Follower**
 - Cast using Ductile Iron 65-45-12 per ASTM A536
 - Flexi-Coat® fusion bonded epoxy finish meets requirements of AWWA C213
 - Flanges color coded for rapid and correct installation: Red for Iron pipe size, Blue for Ductile Iron, and Gray for Asbestos Cement
 - Permanently marked with part number and pipe size range for proper selection
- **Body**
 - Cast using Ductile Iron 65-45-12 per ASTM A536
 - Flexi-Coat® fusion bonded epoxy finish meets requirements of AWWA C213
 - Single body design for each nominal pipe size reducing inventory
 - Flange connection compatible with ANSI 125# and 150# bolt hole patterns
- **Gasket and O-ring**
 - Nitrile (Buna-N) per ASTM D2000
 - Compounded to resist water, oil, natural gas, acids, alkalies, most (aliphatic) hydrocarbon fluids, and many other chemicals
 - Temperature range: -20°F to +180°F
 - For Ductile Iron and Asbestos Cement pipe, the gaskets sealing surface has molded in ribs for maximum sealing on textured pipe
 - Gasket permanently marked with part number and pipe size range for proper selection

SPECIFICATION

OMNI™ CAST FLANGED COUPLING ADAPTER

MODEL 912-91

- **T-Bolt**
 - Cast using Ductile Iron 60-40-18 per ASTM A536
 - Sizes: 3"-4" nominal pipe size(s) = 5/8"-11UNC Hex Head
6"-8" nominal pipe size(s) = 3/4"-10UNC Hex Head
10"-12" nominal pipe size(s) = 7/8"-09UNC Hex Head
 - Tee design allows one wrench installation
 - Rolled threads for improved physical characteristics, greater thread accuracy, and smooth surface finish
- **Nut**
 - High Strength Low Alloy (HSLA) Steel per AWWA C111/A21.11
 - Sizes: 3"-4" nominal pipe size(s) = 5/8" Heavy Hex Semi-Finished
6"-8" nominal pipe size(s) = 3/4" Heavy Hex Semi-Finished
10"-12" nominal pipe size(s) = 7/8" Heavy Hex Semi-Finished
- **Cross Bolt**
 - Cast using Ductile Iron 60-40-18 per ASTM A536
 - Sizes: 3"-4" nominal pipe size(s) = 5/8"-11UNC All Thread
6"-8" nominal pipe size(s) = 3/4"-10UNC All Thread
10"-12" nominal pipe size(s) = 7/8"-09UNC All Thread
 - Cross design allows one wrench installation
 - Rolled threads for improved physical characteristics, greater thread accuracy, and smooth surface finish

LISTINGS

- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Meets applicable portions of AWWA C219

OPTIONS

- Alternative gasket material (e.g. Buna-N, EPDM, etc.)
- Anode connector
- Anchor studs (Pipe Restraint)
- Transition gasket for undersized pipe

NOTES

- This product **does not** restrain the pipe from pulling out of the fitting unless optional anchor studs are specified
- Flexi-Coat® is a registered trademark of Smith-Blair Inc.
- OMNI™ is a trademark of Smith-Blair Inc.
- These product specifications were correct at the time of publication and are subject to change without notice
- See the Smith-Blair website for part numbers and ordering information
- See the Smith-Blair website for warranty information
- See the Smith-Blair website for corrosion notice



THIS PRODUCT DOES NOT RESTRAIN PIPE MOVEMENT. Proper anchoring is required to prevent pipe pullout. Failure to anchor or improper anchoring can result in dangerous pipe content escape, property damage, serious injury, or death. Read the product installation instructions prior to installing this product.



SPECIFICATION

OMNI™ CAST FLANGED COUPLING ADAPTER

MODEL 912-91

Minimum 3" pipe insertion required

Total Maximum Allowable Axial Pipe Movement per Coupling

Coupling Size	Allowable Movement
3/4" to 2"	1/16"
2-1/2" to 10"	1/8"
10-3/4" and Larger	3/16"

Pipe End Tolerances

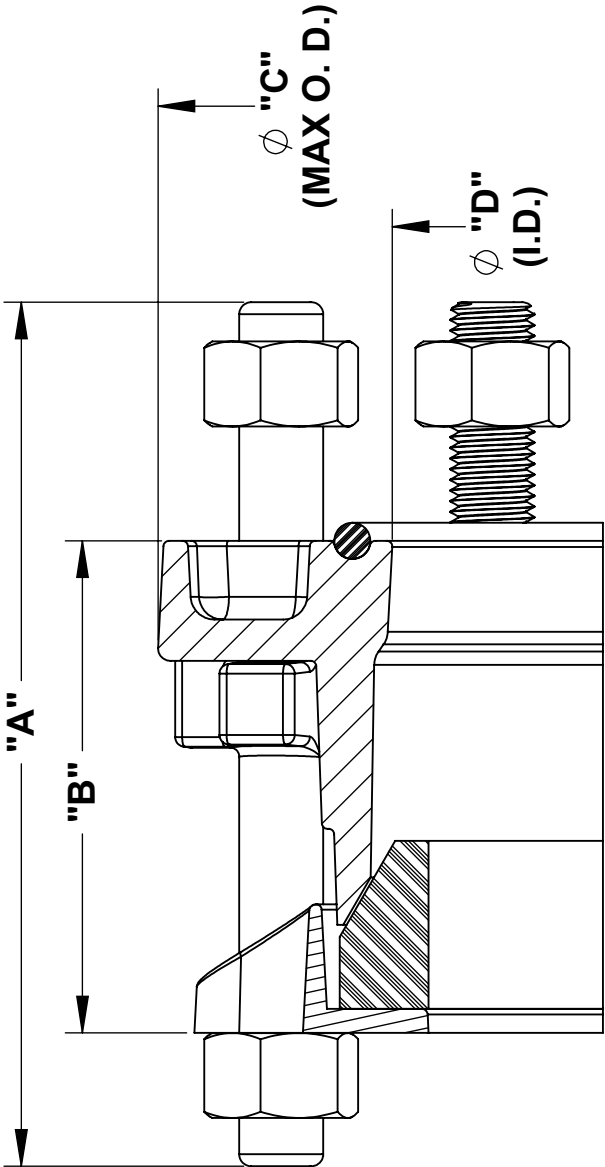
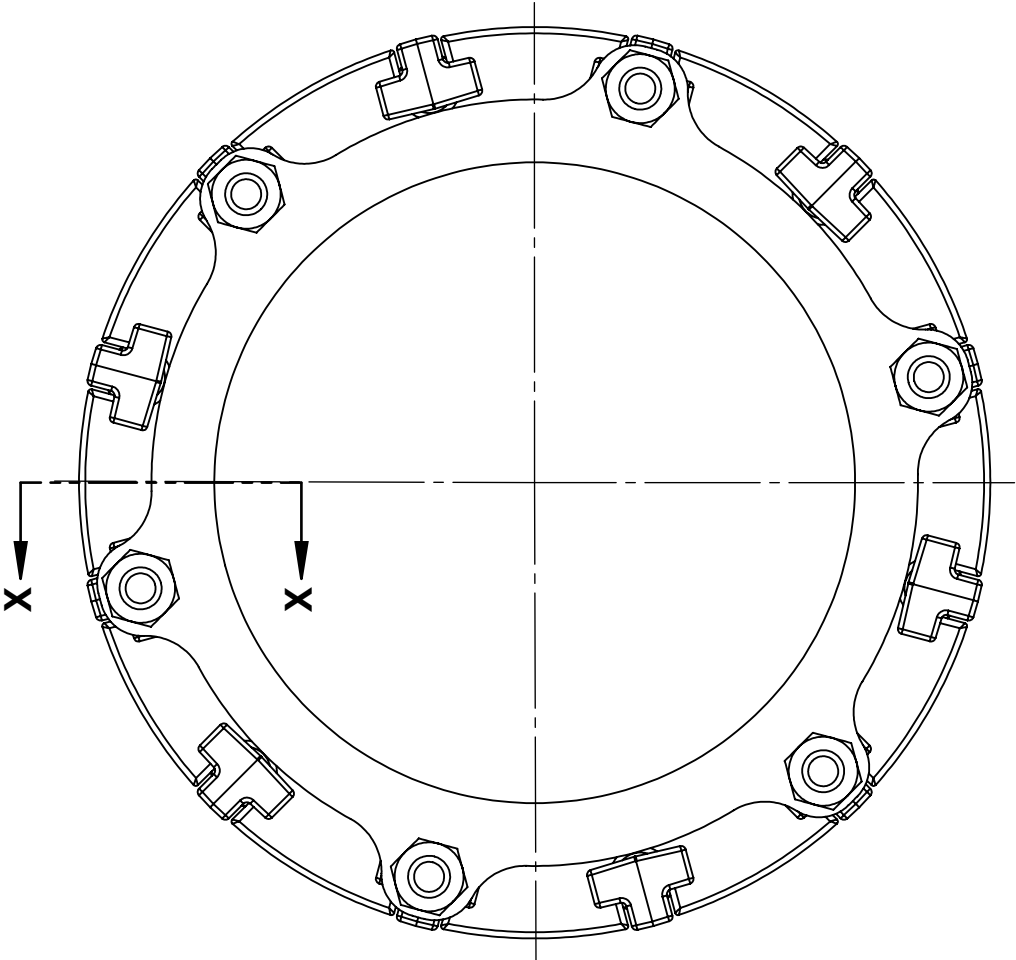
Nominal Pipe Size	Minus Tolerance	Plus Tolerance
1/2" up to 16"	-0.06	+0.06
>16" up to 24"	-0.08	+0.08
>24" up to 42"	-0.10	+0.10
>42"	-0.06	+0.12

Maximum Angular Deflection per Coupling

Nominal Pipe Size	Center Sleeve Length		
	5"	7"	10" and Larger
1/2" up to 2"	3-1/2°	3-1/2°	3-1/2°
>2" up to 12"	2°	2-1/4°	2-1/4°
>12" up to 24"	3/4°	1°	1-1/8°
>24" up to 36"	-	1-3/4°	2°
>36" up to 42"	-	1-1/2°	1-3/4°
>42" up to 60"	-	1-1/4°	1-1/2°
>60" up to 80"	-	-	1-1/4°
>80" up to 100"	-	-	1°
>100"	-	-	-

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WRENCH SIZE CHART	
NUT	SIZE
5/8"-11UNC HH	1-1/16"
3/4"-10UNC HH	1-1/4"
7/8"-9UNC HH	1-7/16"



SECTION X-X

- NOTES:
- SEE SMITH-BLAIR CATALOG FOR ADDITIONAL DETAILS
 - 12" COUPLING SHOWN OTHER SIZES SIMILAR
 - MATING FLANGE NOT SHOWN

CERTIFIED TO NSF/ANSI 61 & NSF/ANSI 372

TOLERANCES U.N.O. XX= ±.03 XXX= ±.015 FRACTIONS= ANGLES=±1° MACH. FIN=	NOTES: REMOVE BURRS AND SHARP EDGES DO NOT SCALE DWG.	APP'D	DATE
		CK'D	DATE
	SCALE: N/A	DRN	DATE
ALL DIMENSIONS ARE IN INCHES.		CHD	1/13/16
TITLE SPECIFICATION OMNI™ CAST FLANGED COUPLING ADAPTER MODEL 912-91			
SMITH-BLAIR, Inc. TEXARKANA, ARKANSAS		P/N N/A	
		SPEC_912-91.DRW	1 OF 1 7/28/16 SHEET REV.