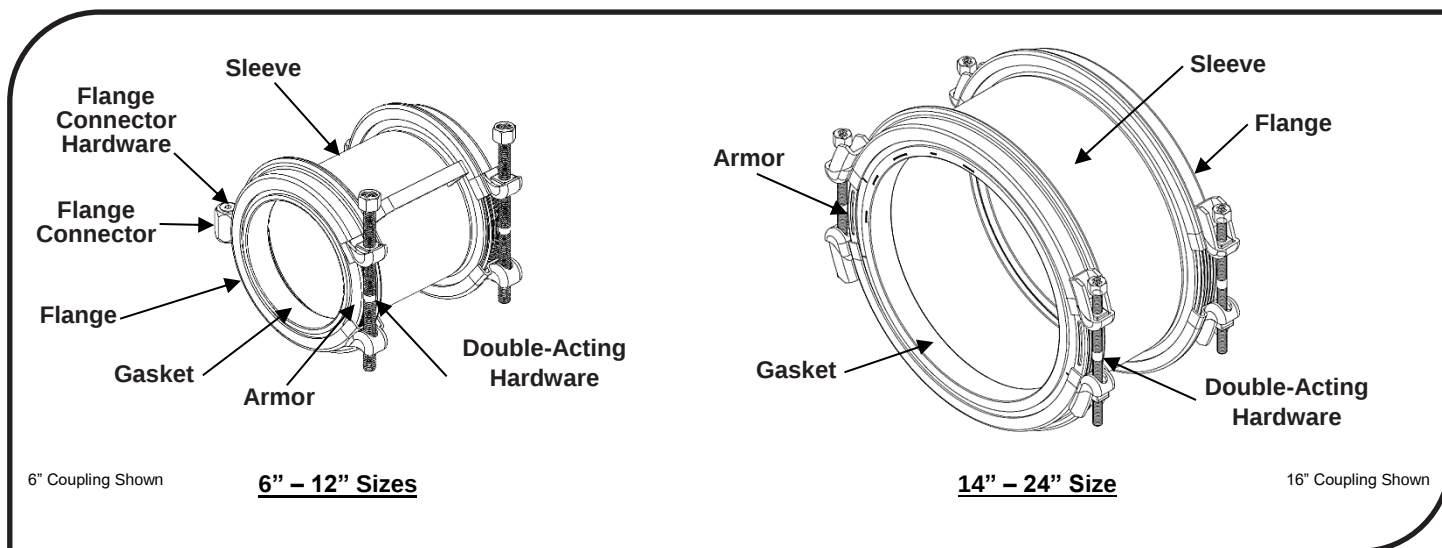


421 TOP BOLT® WIDE RANGE COUPLING



APPLICATIONS

Typical Uses

- Joining plain-end pipe of same outside diameters
- Joining plain-end pipe of different outside diameters within the same nominal pipe size
- Replacing split or excessively damaged pipe

Standard Pipe Sizes

- 2" to 24" nominal
- 10", 12", 16" & 24" Oversize

Type of Pipe

- Carbon Steel, Stainless Steel, Cast Iron, Ductile Iron, PVC (SDR 26 min. thickness), PVCO (CIOD PC235 min. thickness), MDPE, & HDPE (DR 32.5 min. thickness), Asbestos Cement, Copper Tube

Working Pressure / Test Pressure

- 2" – 16", 18", 20" = 260 psi / 390 psi
- 16", 24" (DIPS), 24" OS = 232 psi / 350 psi
- 24" (IPS) = 150 psi / 225 psi

MATERIALS

Sleeve

- Carbon Steel per ASTM A283C, A285A, A36

Flange

- Carbon Steel per ASTM A283C, A285A, A36

Gasket

- Nitrile (Buna-N) per ASTM D2000

Armor

- Type 304 Stainless Steel ASTM A240

Hardware

- Single Acting Bolt (Sizes 2"-4"), Double-Acting Bolt (Sizes 6"-24") & Connector Hardware – Type 304 Stainless Steel per ASTM A193 and A194
- Swivel Hardware – Type 316 Stainless Steel per ASTM A194

Finish

- Fusion Bonded Epoxy
- Anti-Gall Coated Hardware

OPTIONS

- Anode connector for Cathodic Protection
- Chloramine resistant EPDM gasket
- Pipe Stops

LISTINGS

- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Meets applicable portions of AWWA C219
- Flexi-Coat® Fusion-Bonded Epoxy Coating meets requirements of AWWA C213
- Multiple Patents Pending

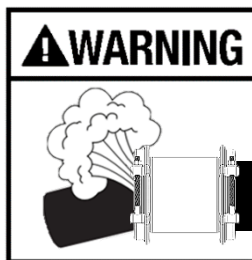
TYPICAL SPECIFICATION

The coupling sleeve shall be made of Carbon Steel per ASTM A283C, A285A, A36 or approved equal. The end flanges shall be made of Carbon Steel per ASTM A283C, A285A, A36 or approved equal. The end flanges shall be made of two segments and held rigidly together with 304 Stainless Steel hex socket flat countersunk head cap screws per ASME B18.3 and 304 Stainless Steel nuts. The open flange side shall have 304 Stainless Steel bolts per ASTM A193 GRB8 or approved equal with Flexi-Coat® Epoxy finish and fluoropolymer coated heavy hex head 304 Stainless Steel nuts. The Double-Acting Bolt Bolt head shall be capable of accepting industry standard-depth sockets. All hardware shall have rolled threads.

The coupling shall have a corrugated armor to bridge the closing ends of the flanges and shall be made of hardened 304 Stainless Steel. The armor is to be vulcanized into the gasket as a permanent fixture.

The gaskets shall be fully molded and be Nitrile (Buna-N), NSF/ANSI/CAN 61 listed, and have a temperature rating of -20 degrees F to +180 degrees F. The gasket shall be compounded to resist: water, oil, acids, alkalies, most (aliphatic) hydrocarbon fluids, and many other chemicals. Each gasket assembly shall be made of two gaskets. The inner gasket shall be nested inside the outer gasket to fit pipe in the smaller range of the coupling. The inner gasket shall be removable to fit the upper end of the coupling range. The inner gasket shall be bi-directional to facilitate the easy insertion back into the outer gasket if it becomes necessary.

The coupling shall have a Flexi-Coat, Fusion Bonded Epoxy finish applied per AWWA C213, and be certified to NSF/ANSI/CAN 61. The coupling shall be independently certified to NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372. The coupling shall be a Smith-Blair, Inc. 421 Wide Range Coupling or approved equal.



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.

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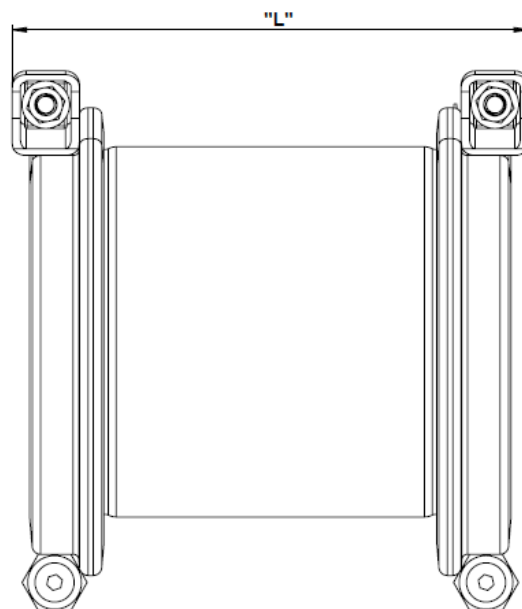
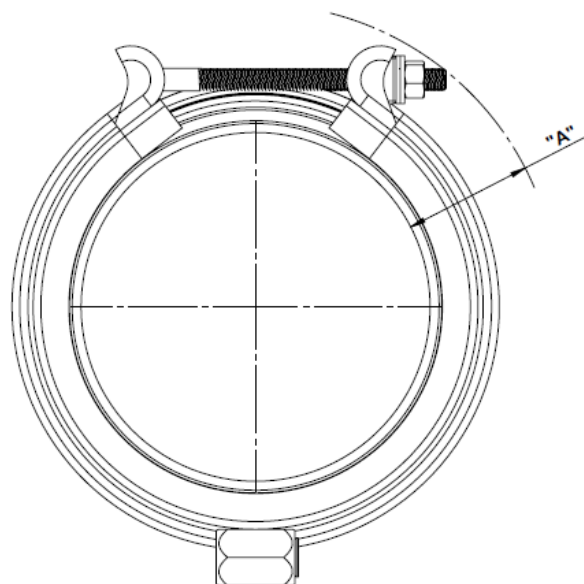


Figure 2: 2"-4" STANDARD COUPLING. 4" COUPLING SHOWN OTHER SIZES SIMILAR.

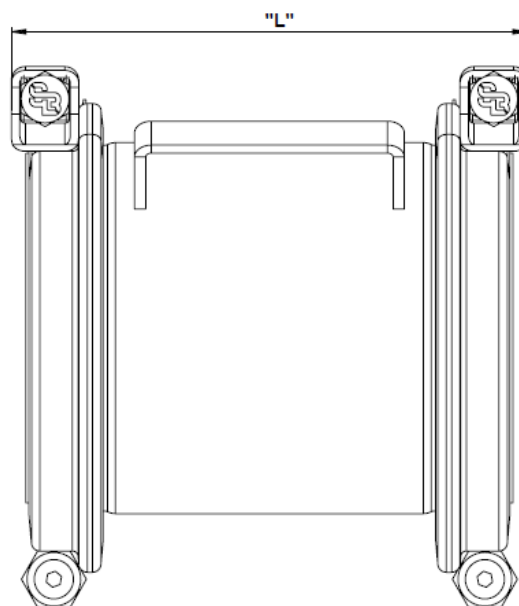
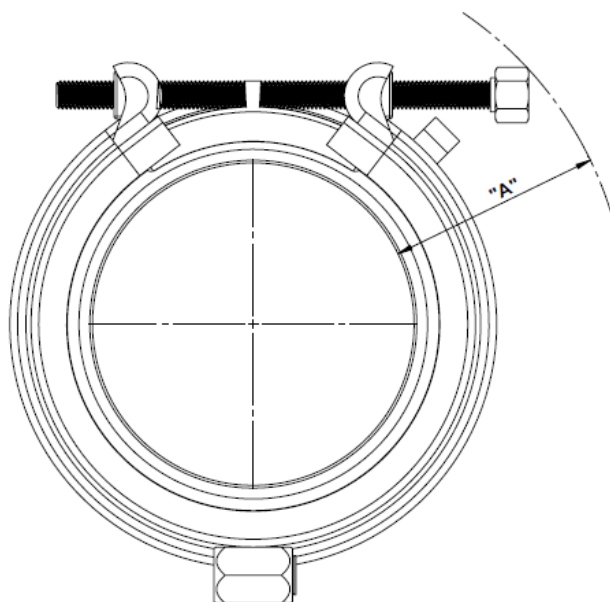


Figure 1: 6"-12" STANDARD COUPLING. 6" COUPLING SHOWN OTHER SIZES SIMILAR.

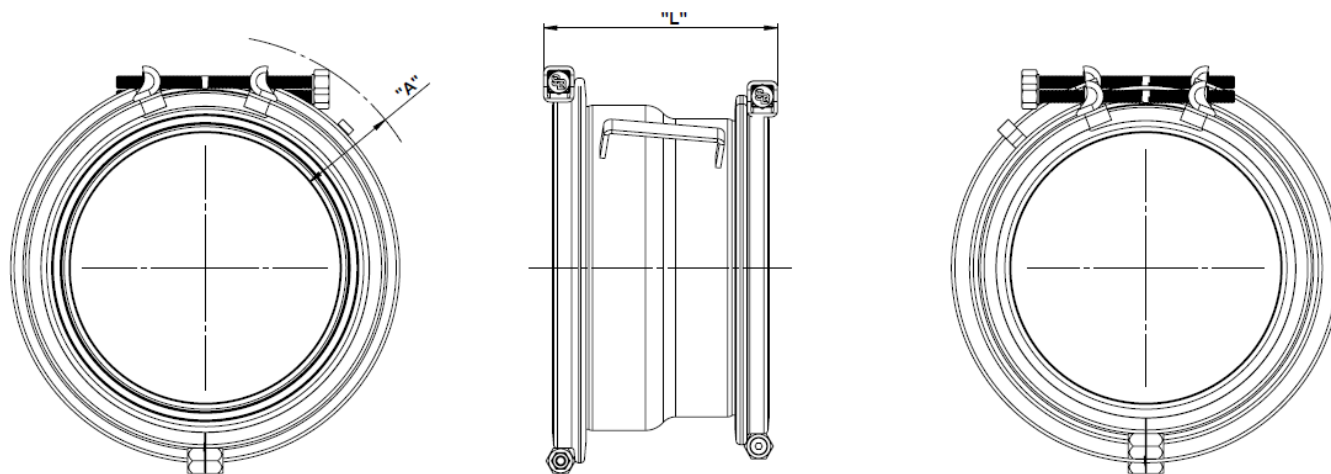


Figure 3: 10", 12" OS COUPLING. 10" OS COUPLING SHOWN OTHER SIZES SIMILAR.

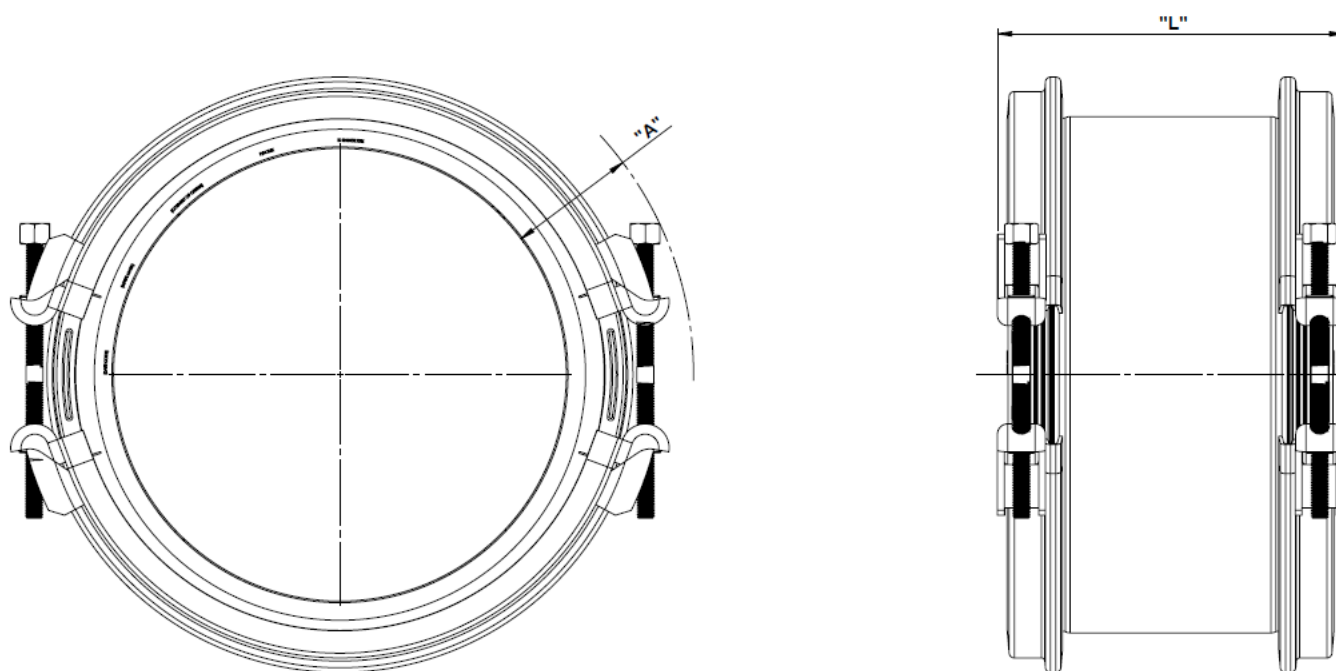


Figure 4: 14"-24" STANDARD COUPLING. 16" COUPLING SHOWN OTHER SIZES SIMILAR.

NOMINAL SIZE (IN)	A	L	BOXED WEIGHT (LBS)
2	5.00 MAX	7.50	9
3	5.00 MAX	9.50	12
4	5.00 MAX	9.75	19
6	5.00 MAX	11.75	27
8	5.00 MAX	11.75	34
10	5.00 MAX	11.75	40
12	5.00 MAX	11.75	47
10 OS	5.00 MAX	11.75	42
12 OS	5.00 MAX	11.75	49
14	5.00 MAX	12.63	65
16	5.00 MAX	12.63	80
16 OS	5.00 MAX	12.63	88
18	5.00 MAX	12.63	94
20	5.00 MAX	12.63	100
24	5.00 MAX	12.63	120
24 OS	5.00 MAX	12.63	126