



Quantum Coupling

Patent 6,168210B1

461



Description: Wide Range Cast Couplings

Application: Joining plain end pipe of all outside diameters within the coupling range.

Key Features:

- Great for reducing coupling inventory
- Heavy cast Ductile Iron parts for long life
- Meets applicable AWWA C219 Standards
- Stab fit, making installation a breeze. No disassembly required
- Bolts and nuts are coated for superior corrosion resistance and better torque capabilities
- Up to 1.65" of range with a single gasket and flange, reducing the need for large coupling inventories
- One coupling per nominal pipe size takes the guess work out of deciding which coupling size to choose

Materials Specifications (subject to change):

SLEEVE: High Strength Ductile Iron ASTM A536

FLANGES: High Strength Ductile Iron ASTM A536

GASKET: Nitrile (Buna N) NSF 61 approved

FINISH: Flexi-Coat® Fusion-Bonded Epoxy Finish

BOLTS: HSLA Steel per ANSI A21.11 (AWWA C111) with Flexi-Coat® Fusion-Bonded Epoxy Finish to prevent galling (Stainless Steel optional)

NUTS: Heavy hex HSLA Steel per ANSI A21.11 with fluoropolymer Finish to prevent galling

Temperature Range: -20°F to +180°F

Working Pressure: Up to 250 PSI

Pipe Applications: Steel, Cast Iron, Asbestos Cement, PVC and other. For other pipe materials, please contact Smith-Blair Engineering.

Sizes (in inches): 1½, 2, 2½, 3, 4, 6, 8, 10, 12



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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Standard Coupling

NOM. SIZE (IN.)	O.D. RANGE (IN.)	WITH EPOXY COATED ALLOY BOLTS & NUTS	WITH STAINLESS STEEL BOLTS & NUTS	SLEEVE LENGTH (IN.)	5/8" BOLT QUANTITY	LAYING LENGTH (IN.)	WT. (LBS.)
		CATALOG NUMBER	CATALOG NUMBER				
1 1/2	1.81 - 2.28	461-01810228-000	461-01810228-031	4	2	10.5	8.2
2	2.34 - 2.85	461-02340285-000	461-02340285-031	4	2	10.5	10
2 1/2	2.84 - 3.35	461-02840335-000	461-02840335-031	4	2	10.5	10
3	3.46 - 4.21	461-03460421-000	461-03460421-031	5	4	10.5	15
4	4.46 - 5.60	461-04460560-000	461-04460560-031	5.5	4	10.5	26
6	6.54 - 7.65	461-06540765-000	461-06540765-031	6	4	10.5	33
8	8.54 - 9.85	461-08540985-000	461-08540985-031	6	4	10.5	44
10	10.65 - 12.20	461-10651220-000	461-10651220-031	7.5	8	13.5	72
12	12.75 - 14.40	461-12751440-000	461-12751440-031	7.5	8	13.5	89

Metric Coupling

NOM. SIZE		O.D. RANGE	
(IN)	(MM)	(IN)	(MM)
1 1/2	40	1.81 - 2.28	46 - 58
2	50	2.34 - 2.85	59 - 72
2 1/2	65	2.84 - 3.35	72 - 85
3	80	3.46 - 4.21	88 - 107
4	100	4.46 - 5.60	113 - 142
6	150	6.54 - 7.65	166 - 194
8	200	8.54 - 9.85	217 - 250
10	250	10.65 - 12.20	271 - 310
12	300	12.75 - 14.40	324 - 366

Long Sleeve Coupling

NOM. SIZE (IN.)	O.D. RANGE (IN.)	WITH EPOXY COATED ALLOY BOLTS & NUTS	WITH STAINLESS STEEL BOLTS & NUTS	SLEEVE LENGTH (IN.)	5/8" BOLT QUANTITY	LAYING LENGTH (IN.)	WT. (LBS.)
		CATALOG NUMBER	CATALOG NUMBER				
4	4.46 - 5.60	462-04460560-000	462-04460560-031	12	4	17	31.4
6	6.54 - 7.65	462-06540765-000	462-06540765-031	12	4	17	42.3
8	8.54 - 9.85	462-08540985-000	462-08540985-031	12	4	17	55.3
10	10.65 - 12.20	462-10651220-000	462-10651220-031	12	8	17	73.0
12	12.75 - 14.40	462-12751440-000	462-12751440-031	12	8	17	87.0