

OMNI Coupling System

Cast Couplings — Straight & Reducing Transitions

441



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.

Description: Cast Couplings

Application: To join plain end pipes with the same or different O.D.s by changing followers and gaskets.

Key Features:

- Heavy cast Ductile Iron parts for long life
- Meets applicable AWWA C219 Standards
- Flanges and gaskets can be mixed and matched on the same size nominal sleeve
- Most couplings are stab fit, making installation a breeze. No disassembly is required
- Up to 2.4" of range with a single coupling, reducing the need for large coupling inventories
- One sleeve per nominal pipe size takes the guess work out of deciding which sleeve size to choose
- Flanges are color coded by pipe type: Red for iron pipe size O.D.; Blue for Ductile O.D.; and gray for Asbestos Cement O.D.
- Gaskets and flanges are permanently marked with a part number and range to facilitate proper selection
- Sleeves are available in a variety of lengths, and custom length Steel sleeves are available for special applications

Materials Specifications (subject to change)

SLEEVE: Ductile Iron ASTM A536. Ends have smooth inside taper for uniform gasket seating

GASKET: Nitrile (Buna N) certified to NSF/ANSI 61G. Compounded to produce superior storage and performance characteristics while resisting water, acids, alkalies, most (aliphatic) hydrocarbon fluids and other chemicals

FOLLOWER FLANGES: Ductile Iron ASTM A536. Designed for high strength to weight ratio

BOLTS & NUTS: High strength low alloy Steel bolts with heavy, semi-finished hexagon nuts to AWWA C219 (ANSI A21.11) **Optional: Stainless Steel**

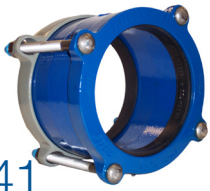
FINISH: Flexi-Coat® Fusion-Bonded Epoxy Finish

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): 2, 2½, 3, 4, 6, 8, 10, 12, 14, 16

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Cast Straight and Cast Transition

NOMINAL PIPE SIZE INCHES	CATALOG NUMBER END CODE (SEE PAGE 14)	O.D.** END 1 INCHES	O.D.** END 2 INCHES	OVERALL BOLT & LAYING LENGTH INCHES	5/8" BOLT QUANTITY REQUIRED	SLEEVE LENGTH INCHES †	APPROXIMATE SHIPPING WEIGHT LBS.
2	441-00000263-900	2.34-2.63	2.34-2.63	8 1/2	2	4	8 1/2
2 1/2	441-00000288-900	2.65-2.88	2.65-2.88	8 1/2	2	4	9
3	441-00000313-900	2.85-3.13	2.85-3.13	8 1/2	4	4	13 1/2
	441-00000350-900	3.44-3.62	3.44-3.62	8 1/2	4	4	13 1/2
	441-00000396-900	3.80-3.96	3.80-3.96	8 1/2	4	4	13 1/2
	441-00000414-900	3.97-4.14	3.97-4.14	8 1/2	4	4	13 1/2
	441-03500313-900	3.44-3.62	2.85-3.13	8 1/2	4	4	13 1/2
	441-03960313-900	3.80-3.96	2.85-3.13	8 1/2	4	4	13 1/2
	441-03960350-900	3.80-3.96	3.44-3.62	8 1/2	4	4	13 1/2
	441-04140313-900	3.97-4.14	2.85-3.13	8 1/2	4	4	13 1/2
	441-04140350-900	3.44-3.62	3.44-3.62	8 1/2	4	4	13 1/2
	441-04140396-900	3.97-4.14	3.80-3.96	8 1/2	4	4	13 1/2
4†	441-00000415-900	4.00-4.15	4.00-4.15	8 1/2	4	5	15
	441-00000450-900	4.22-4.50	4.22-4.50	8 1/2	4	5	15
	441-00000486-900	4.46-4.86	4.46-4.86	8 1/2	4	5	15
	441-00000510-900	4.80-5.10	4.80-5.10	8 1/2	4	5	15
	441-00000545-900	5.11-5.45	5.11-5.45	8 1/2	4	5	15
	441-04500415-900	4.22-4.50	4.00-4.15	8 1/2	4	5	15
	441-04860415-900	4.46-4.86	4.00-4.15	8 1/2	4	5	15
	441-05100415-900	4.80-5.10	4.00-4.15	8 1/2	4	5	15
	441-05100450-900	4.80-5.10	4.22-4.50	8 1/2	4	5	15
	441-05100486-900	4.80-5.10	4.46-4.86	8 1/2	4	5	15
	441-05450415-900	5.11-5.45	4.00-4.15	8 1/2	4	5	15
	441-05450450-900	5.11-5.45	4.22-4.50	8 1/2	4	5	15
	441-05450486-900	5.11-5.45	4.46-4.86	8 1/2	4	5	15
	441-05450510-900	5.11-5.45	4.80-5.10	8 1/2	4	5	15
6†	441-00000615-900	6.00-6.15	6.00-6.15	8 1/2	4	5	25
	441-00000663-900	6.28-6.63	6.28-6.63	8 1/2	4	5	25
	441-00000696-900	6.56-6.96	6.56-6.96	8 1/2	4	5	25
	441-00000722-900	6.90-7.22	6.90-7.22	8 1/2	4	5	25
	441-00000765-900	7.25-7.65	7.25-7.65	8 1/2	4	5	25
	441-06630615-900	6.28-6.63	6.00-6.15	8 1/2	4	5	25
	441-06960615-900	6.56-6.96	6.00-6.15	8 1/2	4	5	25
	441-07220615-900	6.90-7.22	6.00-6.15	8 1/2	4	5	25
	441-07220663-900	6.90-7.22	6.28-6.63	8 1/2	4	5	25
	441-07220696-900	6.90-7.22	6.56-6.96	8 1/2	4	5	25
	441-07650615-900	7.25-7.65	6.00-6.15	8 1/2	4	5	25
	441-07650663-900	7.25-7.65	6.28-6.63	8 1/2	4	5	25
	441-07650696-900	7.25-7.65	6.56-6.96	8 1/2	4	5	25
	441-07650722-900	7.25-7.65	6.90-7.22	8 1/2	4	5	25

Type 441 Couplings will connect any two pipes within the O.D. range without changing parts. Suitable anchorage must be provided when excessive pipe movement could occur.
 ** Published ranges indicate nominal pipe outside diameters. Couplings are designed for pipes within current AWWA standard tolerances. † For longer sleeve length see 442.

Cast Straight and Cast Transition, Continued

NOMINAL PIPE SIZE INCHES	CATALOG NUMBER END CODE (SEE PAGE 14)	O.D.** END 1 INCHES	O.D.** END 2 INCHES	OVERALL BOLT & LAYING LENGTH INCHES	5/8" BOLT QUANTITY REQUIRED	SLEEVE LENGTH INCHES †	APPROXIMATE SHIPPING WEIGHT LBS.
8†	441-00000800-900	8.00-8.16	8.00-8.16	8 1/2	6	5	31
	441-00000863-900	8.40-8.63	8.40-8.63	8 1/2	6	5	31
	441-00000911-900	8.54-9.11	8.54-9.11	8 1/2	6	5	31
	441-00000930-900	9.05-9.30	9.05-9.30	9 1/2	6	5	31
	441-00000945-900	9.05-9.45	9.05-9.45	9 1/2	6	5	31
	441-00000985-900	9.46-9.85	9.46-9.85	9 1/2	6	5	31
	441-08630800-900	8.40-8.63	8.00-8.16	8 1/2	6	5	31
	441-09110800-900	8.54-9.11	8.00-8.16	8 1/2	6	5	31
	441-09300800-900	8.00-8.16	8.00-8.16	8 1/2	6	5	31
	441-09300863-900	8.40-8.63	8.40-8.63	8 1/2	6	5	31
	441-09300911-900	8.54-9.11	8.54-9.11	8 1/2	6	5	31
	441-09450800-900	9.05-9.45	8.00-8.16	9 1/2	6	5	31
	441-09450863-900	9.05-9.45	8.40-8.63	9 1/2	6	5	31
	441-09450911-900	9.05-9.45	8.54-9.11	9 1/2	6	5	31
	441-09850800-900	9.46-9.85	8.00-8.16	9 1/2	6	5	31
	441-09850863-900	9.46-9.85	8.40-8.63	8 1/2	6	5	31
	441-09850911-900	9.46-9.85	8.54-9.11	8 1/2	6	5	31
	441-09850945-900	9.46-9.85	9.05-9.45	8 1/2	6	5	31
10†	441-00001000-900	10.00	10.00	9 1/2	6	6	47
	441-00001075-900	10.50-10.75	10.50-10.75	9 1/2	6	6	47
	441-00001160-900	11.10-11.60	11.10-11.60	11	6	6	47
	441-00001188-900	11.65-11.88	11.65-11.88	9 1/2	6	6	47
	441-00001220-900	11.90-12.20	11.90-12.20	9 1/2	6	6	47
	441-10751000-900	10.50-10.75	10.00	9 1/2	6	6	47
	441-11601000-900	11.10-11.60	10.00	11	6	6	47
	441-11601075-900	11.10-11.60	10.50-10.75	9 1/2	6	6	47
	441-11881000-900	11.65-11.88	10.00	9 1/2	6	6	47
	441-11881075-900	11.65-11.88	10.50-10.75	9 1/2	6	6	47
	441-11881160-900	11.65-11.88	11.10-11.60	11	6	6	47
	441-12201000-900	11.90-12.20	10.00	9 1/2	6	6	47
	441-12201075-900	11.90-12.20	10.50-10.75	9 1/2	6	6	47
	441-12201160-900	11.90-12.20	11.10-11.60	11	6	6	47
	441-12201188-900	11.90-12.20	11.65-11.88	9 1/2	6	6	47

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Cast Straight and Cast Transition, Continued

NOMINAL PIPE SIZE INCHES	CATALOG NUMBER END CODE (SEE PAGE 14)	O.D.** END 1 INCHES	O.D.** END 2 INCHES	OVERALL BOLT & LAYING LENGTH INCHES	5/8" BOLT QUANTITY REQUIRED	SLEEVE LENGTH INCHES †	APPROXIMATE SHIPPING WEIGHT LBS.
12†	441-00001200-900	12.00	12.00	9 1/2	8	6	52
	441-00001275-900	12.50-12.75	12.50-12.75	9 1/2	8	6	52
	441-00001350-900	13.20-13.50	13.20-13.50	11	8	6	52
	441-00001375-900	13.51-13.75	13.51-13.75	9 1/2	8	6	52
	441-00001420-900	13.90-14.20	13.90-14.20	9 1/2	8	6	52
	441-00001440-900	14.21-14.40	14.21-14.40	9 1/2	8	6	52
	441-12751200-900	12.50-12.75	12.00	9 1/2	8	6	52
	441-13501200-900	13.20-13.50	12.00	9 1/2	8	6	52
	441-13501275-900	13.20-13.50	12.50-12.75	9 1/2	8	6	52
	441-13751200-900	13.51-13.75	12.00	9 1/2	8	6	52
	441-13751275-900	13.51-13.75	12.50-12.75	9 1/2	8	6	52
	441-13751350-900	13.51-13.75	13.20-13.50	9 1/2	8	6	52
	441-14201200-900	13.90-14.20	12.00	9 1/2	8	6	52
	441-14201275-900	13.90-14.20	12.50-12.75	9 1/2	8	6	52
	441-14201350-900	13.90-14.20	13.20-13.50	9 1/2	8	6	52
	441-14201375-900	13.90-14.20	13.51-13.75	9 1/2	8	6	52
	441-14401200-900	14.21-14.40	12.00	9 1/2	8	6	52
	441-14401275-900	14.21-14.40	12.50-12.75	9 1/2	8	6	52
	441-14401350-900	14.21-14.40	13.20-13.50	9 1/2	8	6	52
	441-14401375-900	14.21-14.40	13.51-13.75	9 1/2	8	6	52
	441-14401420-900	14.21-14.40	13.90-14.20	9 1/2	8	6	52
14†	441-00001550-900	15.30-15.50	15.30-15.50	9 1/2	8	6	59
	441-00001580-900	15.55-15.80	15.55-15.80	9 1/2	8	6	59
	441-00001622-900	16.22-16.35	16.22-16.35	9 1/2	8	6	59
	441-00001655-900	16.41-16.55	16.41-16.55	9 1/2	8	6	59
	441-00001690-900	16.73-16.90	16.73-16.90	9 1/2	8	6	59
	441-15801550-900	15.55-15.80	15.30-15.50	9 1/2	8	6	59
	441-16221550-900	16.22-16.35	15.30-15.50	9 1/2	8	6	59
	441-16221580-900	16.22-16.35	15.55-15.80	9 1/2	8	6	59
	441-16551550-900	16.41-16.55	15.30-15.50	9 1/2	8	6	59
	441-16551580-900	16.41-16.55	15.55-15.80	9 1/2	8	6	59
	441-16551622-900	16.41-16.55	16.22-16.35	9 1/2	8	6	59
	441-16801550-900	16.73-16.90	15.30-15.50	9 1/2	8	6	59
	441-16901580-900	16.73-16.90	15.55-15.80	9 1/2	8	6	59
	441-16901622-900	16.73-16.90	16.22-16.35	9 1/2	8	6	59
	441-16901655-900	16.73-16.90	16.41-16.55	9 1/2	8	6	59
16†	441-00001780-900	17.40-17.80	17.40-17.80	11	10	6	71
	441-00001890-900	18.46-18.90	18.46-18.90	9 1/2	10	6	71
	441-00001920-900	18.90-19.20	18.90-19.20	9 1/2	10	6	71
	441-18901780-900	18.46-18.90	17.40-17.80	11	10	6	71
	441-19201780-900	18.90-19.20	17.40-17.80	11	10	6	71
	441-19201890-900	18.90-19.20	18.46-18.90	9 1/2	10	6	71

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Cast Reducing Couplings

NOMINAL SIZE INCHES		CATALOG NUMBER END CODE (SEE PAGE 14)	O.D.** END 1 INCHES	O.D.** END 2 INCHES	LAYING LENGTH INCHES	5/8" BOLTS		APPROXIMATE SHIPPING WEIGHT LBS.
END 1	END 2					LENGTH INCHES	QUANTITY REQUIRED	
2 1/2	2	441-02880263-900	2.65-2.88	2.34-2.63	8 1/2	8	2	20
6	4	441-06630415-900	6.28-6.63	4.00-4.15	5	4 1/2	8	25
		441-06630450-900	6.28-6.63	4.22-4.50				
		441-06630486-900	6.28-6.63	4.46-4.86				
		441-06630510-900	6.28-6.63	4.80-5.10				
		441-06630545-900	6.28-6.63	5.11-5.45				
		441-06960415-900	6.56-6.96	4.00-4.15				
		441-06960450-900	6.56-6.96	4.22-4.50				
		441-06960486-900	6.56-6.96	4.46-4.86				
		441-06960510-900	6.56-6.96	4.80-5.10				
		441-06960545-900	6.56-6.96	5.11-5.45				
		441-07220415-900	6.90-7.22	4.00-4.15				
		441-07220450-900	6.90-7.22	4.22-4.50				
		441-07220486-900	6.90-7.22	4.46-4.86				
		441-07220510-900	6.90-7.22	4.80-5.10				
		441-07220545-900	6.90-7.22	5.11-5.45				
		441-07650415-900	7.25-7.65	4.00-4.15				
		441-07650450-900	7.25-7.65	4.22-4.50				
		441-07650486-900	7.25-7.65	4.46-4.86				
		441-07650510-900	7.25-7.65	4.80-5.10				
		441-07650545-900	7.25-7.65	5.11-5.45				
8	6	441-08630615-900	8.40-8.63	6.00-6.15	5	4 1/2	10	35
		441-08630663-900	8.40-8.63	6.28-6.63				
		441-08630696-900	8.40-8.63	6.56-6.96				
		441-08630722-900	8.40-8.63	6.90-7.22				
		441-08630765-900	8.40-8.63	7.25-7.65				
		441-09110615-900	8.54-9.11	6.00-6.15				
		441-09110663-900	8.54-9.11	6.28-6.63				
		441-09110696-900	8.54-9.11	6.56-6.96				
		441-09110722-900	8.54-9.11	6.90-7.22				
		441-09110765-900	8.54-9.11	7.25-7.65				
		441-09450615-900	9.05-9.45	6.00-6.15				
		441-09450663-900	9.05-9.45	6.28-6.63				
		441-09450696-900	9.05-9.45	6.56-6.96				
		441-09450722-900	9.05-9.45	6.90-7.22				
		441-09450765-900	9.05-9.45	7.25-7.65				
		441-09850615-900	9.46-9.85	6.00-6.15				
		441-09850663-900	9.46-9.85	6.28-6.63				
		441-09850696-900	9.46-9.85	6.56-6.96				
		441-09850722-900	9.46-9.85	6.90-7.22				
		441-09850765-900	9.46-9.85	7.25-7.65				