



Steel Transition Coupling

Transition Connection

413



Description: Used to connect pipes of different outside diameters when the maximum O.D. variation does not exceed the listed coupling O.D. range.

Application: Joining plain end pipe of different diameters within the same nominal pipe size.

Key Features:

- Meets applicable AWWA C219 Standards
- Allows for limited expansion and contraction
- Will dampen vibration to reduce pipe fatigue
- Easy to install, no special pipe end preparation required
- Available in a wide variety of pipe O.D. sizes and sleeve lengths
- Most sizes will accommodate anchor studs to restrain the joints
- Can be custom made to fit odd O.D.s or other unusual applications
- Provided with or without pipe stops to accommodate customer needs
- Has good deflection capabilities, allows change in piping direction without the need of elbows, bends, etc

Materials Specifications (subject to change):

SLEEVE: ASTM A53, ASTM A513 or Carbon Steel having a minimum yield of 30,000 PSI

FOLLOWERS: Ductile Iron ASTM A536 or Steel AISI C 1020. Designed for a high strength to weight ratio
Follower thickness determined by coupling size

BOLTS & NUTS: High strength, low alloy Steel with heavy semi-finished hexagon nuts. *Optional: Stainless Steel*

GASKET: Nitrile (Buna N) NSF® 61 compounded to produce superior storage and performance characteristics while resisting water, acids, alkalis, most (aliphatic) hydrocarbon fluids, and other chemicals
Temperature Range: -20°F to 180°F

FINISH: Flexi-Coat® Fusion Bonded Epoxy Finish

Working Pressure: Up to 150 PSI

Pipe Applications: PVC, Steel, Ductile Iron, AC, and others. For other pipe materials, please contact Smith-Blair Engineering.

Sizes (in inches): 2, 2½, 3-4, 4-5, 5-6, 6, 8, 8-12, 12, 12-14, 14, 16, 18, 20, 24, 30, 36, 42, 48

NOTE: Larger sizes available upon request.



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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Straight Sleeve

NOM. PIPE SIZE IN.	*MAXIMUM COUPLING TRANSITION RANGE INCHES	DIMENSIONS		BOLTS			APPROX. SHIP WT. LBS.
		SLEEVE LENGTH (B) IN.	SLEEVE THICK. INCHES	NO.	DIA. IN.	LGTH. IN. (L)	
2	2.07-2.81	5	0.216	2	5/8	8	8
2-3	2.69-3.88	5	0.227	2	5/8	8	9 1/2
3-4	3.44-4.88	5	0.258	3	5/8	8	13
4-5	4.74-5.84	5	0.280	4	5/8	8	20 1/2
5-6	5.47-6.99	5	0.301	5	5/8	8	23 1/2
6	6.57-7.26	5	0.322	5	5/8	8	27 3/4
8	7.94-8.75	5	0.342	6	5/8	8	33 1/2
8	7.94-9.25	5	3/8	6	5/8	8	40 1/2
8	8.56-9.45	5	3/8	6	5/8	8	40 1/2
8-10	9.00-10.38	5	3/8	7	5/8	8	41
10	9.88-10.84	5	1/4	8	5/8	8	32 3/4
10	10.63-11.50	5	3/8	7	5/8	8	46
10-12	11.00-12.06	5	3/8	7	5/8	8	47 1/2
12	11.88-13.10	5	3/8	8	5/8	8	52 1/4
12	12.63-13.70	5	3/8	8	5/8	8	56 1/2
12-14	13.88-14.50	5	3/8	6	5/8	8	62
14	15.30-15.65	7	3/8	8	5/8	11	86
16	17.40-17.80	7	3/8	8	5/8	11	96
18	19.50-19.92	7	3/8	10	5/8	11	108
20	21.60-22.06	7	3/8	10	5/8	11	118
24	25.80-26.32	7	3/8	12	5/8	11	140

Remember to order by stating the exact pipe O.D.'s. Do NOT state the listed transition.

Expanded Sleeve

NOM. PIPE SIZE IN.	*MAXIMUM COUPLING TRANSITION IN.	DIMENSIONS		BOLTS			APPROX. SHIP WT. LBS.
		SLEEVE LENGTH IN. (B)	SLEEVE THICK. INCHES	NO.	DIA. IN.	LGTH. IN. (L)	
14	14.00 to 15.30	12	3/8	8	5/8	15	110
16	16.00 to 17.40	12	3/8	8	5/8	15	125
18	18.00 to 19.50	12	3/8	8	5/8	15	145
20	20.00 to 21.60	12	3/8	10	5/8	15	160
24	24.00 to 25.80	12	3/8	12	5/8	15	180
30	30.00 to 32.00	12	3/8	14	5/8	15	215
36	36.00 to 38.30	12	3/8	16 per End	5/8	4.5	260
42	42.00 to 44.50	12	3/8	18 per End	5/8	4.5	315
48	48.00 to 50.80	12	3/8	20 per End	5/8	4.5	350

*Longer sleeve available on request. Most transitions available on request, up to 10% change in diameter. Consult Smith-Blair engineers for details. Remember to order by stating the exact pipe O.D.'s. Do NOT state the listed transition.