



Flange-Lock Restrained FCA

Ductile Iron and Steel

FOR CONNECTING AND RESTRAINING FLANGED FITTINGS TO PIPE

Patents US 7484775, US 7748100, CA 2511782

911

IMPORTANT LINKS

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[Standard Limited Warranty](#)

[Sales Terms & Conditions](#)

[Freight Policy](#)

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[Corrosion & Product Selection Notice](#)

NOTE:*300 lb. flanges available for 300 PSI applications. For other flanges, contact Smith-Blair for specific details and pricing. The pass-through feature may not be available with some flanges. 300 PSI rating is limited to series 911 on Ductile Iron pipe only though 16". All 18"-48" 911 on Ductile Iron pipe applications will be limited to 250 PSI. All 911 on Steel pipe 3"-12" will be limited to 250 psi..

Description: A fabricated Steel FCA with integral restraint.

Application: For connecting and restraining plain end D.I. or Steel pipe to flanged pipe fittings, valves, meters, or other flanged equipment.

Key Features:

- Mechanical restraint shall be an integral part of the follower gland utilizing multiple single tooth wedges
- Reducing style available
- Breakaway nut torque per wedge is 45 to 60 ft. lbs.
- Longer adapters available

Materials Specifications (subject to change):

SLEEVE:ASTM A36 A283 Gr. C or Carbon Steel having a minimum yield of 30,000 PSI

FLANGE: *AWWA C207 Class D, ANSI 150 lb. drilling. Flat face

FINISH: Flexi-Coat®, Fusion-Bonded epoxy

Cam-Lock™ Specifications:

GLAND: 65-45-12 Ductile Iron (ASTM A536)

WEDGES: Single Tooth, Ductile Iron, heat treated for Ductile Iron pipe applications

ACTUATING BOLTS: 60-40-18 Ductile Iron (ASTM A536)

BREAKAWAY NUTS: Carbon Steel or Cast Iron

FINISH: Gland is Flexi-Coat® Fusion-Bonded Epoxy, per AWWA C213; Wedges and actuating bolts are E-coated Epoxy

Kit Specifications:

GASKET: SBR Standard Mechanical Joint. AWWA C111 and ANSI A21. 11 SBR or Multi-Seal Gasket

T-BOLTS: High strength, low alloy, per AWWA C111; Optional:304 Stainless Steel, fluoropolymer-coated

Pipe Applications: D.I., Steel

Sizes (in inches):

DUCTILE IRON: 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 30, 36, 42, 48

CARBON STEEL: 3, 4, 6, 8, 10, 12

Working Pressure: 150 PSI

Deflection: Assembled joints into each follower gland through 12" shall allow for five degrees deflection, two degrees 14"-24", 1.5 degrees 18"-24", one degree 30"-48"



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NOMINAL PIPE SIZE INCHES	O.D. RANGE INCHES	NOMINAL FLANGE RANGE INCHES	CATALOG NUMBER	WT. EACH LBS.	DIMENSIONS/INCHES					MAX. JOINT DEFLECTION (DEGREES)
					A	B	C	D	E	
3	3.96	3	911-03960300-000	25.0	9.82	7.50	4.62	8.88	3.00	3
4	4.80	4	911-04800400-000	35.0	10.67	9.00	5.00	8.88	3.00	5
6	6.90	6	911-06900600-000	49.0	11.19	11.00	7.03	8.94	3.00	5
8	9.05	8	911-09050800-000	62.0	13.29	13.50	9.25	8.94	3.00	5
10	11.10	10	911-11101000-000	85.0	16.97	16.00	11.25	8.94	3.00	5
12	13.20	12	911-13201200-000	112.0	19.07	19.00	13.38	9.06	3.00	5
14	15.30	14	911-15301400-000	134.0	21.18	21.00	15.50	9.19	3.00	2
16	17.40	16	911-17401600-000	163.0	23.28	23.50	17.59	9.25	3.00	2
18	19.50	18	911-19501800-000	176.0	25.98	25.00	19.69	9.31	3.00	1.5
20	21.60	20	911-21602000-000	206.0	28.08	27.50	21.78	9.38	3.00	1.5
24	25.80	24	911-25802400-000	264.0	32.28	32.00	26.00	9.50	3.00	1
30	32.00	30	911-32003000-000	563.0	39.42	38.75	32.20	12.88	3.00	1
36	38.30	36	911-38303600-000	749.0	46.29	46.00	38.50	13.13	3.00	1
42	44.50	42	911-44504200-000	1091.0	53.62	53.00	44.70	13.25	3.00	1
48	50.80	48	911-50804800-000	1272.0	60.50	59.50	51.00	13.38	3.00	1

