

Flange-Lock Restrained FCA

PVC Pipe

FOR CONNECTING AND RESTRAINING FLANGED FITTINGS TO PIPE

Patents US 7484775, US 7748100, CA 2511782

920

IMPORTANT LINKS

Click appropriate words to go to:

[Standard Limited Warranty](#)

[Sales Terms & Conditions](#)

[Freight Policy](#)

[Returns Policy](#)

[Corrosion & Product Selection Notice](#)

NOTE:*300 lb. flanges available for higher pressures. For other flanges, contact Smith-Blair for specific details and pricing. The pass-through feature may not be available with some flanges. All 911 on Steel pipe 3"-12" and all 920 on PVC applications through 24" will be limited to 250 PSI, 150 PSI on 30" and 125 PSI on 36".

Description: A fabricated Steel Flanged Coupling Adapter with integral restraint.

Application:

For connecting and restraining PVC 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 coupling available
- Multi-Seal Gasket for more flexibility in nominal sizes 4"-12"
- Breakaway nut torque per wedge is 45 to 60 ft. lbs.
- Longer sleeves 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 Ductile 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.

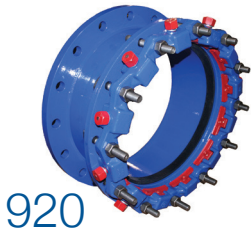
T-BOLTS: High Strength, low alloy, per AWWA C111; *Optional: 304 Stainless Steel, fluoropolymer-coated*

Pipe Applications: PVC Pipe

Sizes (in inches): 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 30, 36, 42, 48

Working Pressure: Through 30" 150 PSI ; 36" 125 PSI, both at 1.5:1 Safety Factor

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



920

Flange-Lock Restrained FCA

PVC Pipe

FOR CONNECTING AND RESTRAINING FLANGED FITTINGS TO PIPE

Patents US 7484775, US 7748100, CA 2511782

For DI OD PVC Pipe

NOMINAL PIPE SIZE INCHES	O.D. RANGE INCHES	NOMINAL FLANGE RANGE INCHES	CATALOG NUMBER	WEIGHT EACH LBS.	DIMENSIONS/INCHES					MAX. JOINT DEFLECTION (DEGREES)
					A	B	C	D	E	
10	10.25-11.10	10	920-11101000-100	86	13.29	13.50	9.25	7.88	3.00	5
10	10.75	10	920-10751000-000	86	16.97	16.00	11.25	7.88	3.00	5
10	11.10	10	920-11101000-000	86	16.97	16.00	11.25	7.88	3.00	5
12	12.75-13.20	12	920-13201200-100	113	19.07	19.00	13.38	7.88	3.00	5
12	12.75	12	920-12751200-000	113	19.07	19.00	13.38	7.88	3.00	5
12	13.20	12	920-13201200-000	113	19.07	19.00	13.38	7.88	3.00	5
14	15.30	14	920-15301400-000	136	21.18	21.00	15.50	7.88	3.00	2
16	17.40	16	920-17401600-000	165	23.28	23.50	17.59	7.88	3.00	2
18	19.50	18	920-19501800-000	178	25.98	25.00	19.69	7.88	3.00	1.5
20	21.60	20	920-21602000-000	209	28.08	27.50	21.78	7.88	3.00	1.5
24	25.80	24	920-25802400-000	268	32.28	32.00	26.00	7.88	3.00	1
30	32.00	30	920-32003000-000	566	39.42	38.75	32.20	11.13	3.00	1
36	38.30	36	920-38303600-000	752	46.29	46.00	38.50	11.13	3.00	1

Other sizes and sleeve length (D) available.

For PVC Pipe

NOMINAL PIPE SIZE INCHES	O.D. RANGE INCHES	NOMINAL FLANGE RANGE INCHES	CATALOG NUMBER	WEIGHT EACH LBS.	DIMENSIONS/INCHES					MAX. JOINT DEFLECTION (DEGREES)
					A	B	C	D	E	
3	3.50	3	920-03500300-000	26.0	9.82	7.50	4.62	7.88	3.00	3
4	4.50-4.80	4	920-04800400-100	35.0	10.67	9.00	5.00	7.88	3.00	5
4	4.50	4	920-04500400-000	35.0	10.67	9.00	5.00	7.88	3.00	5
4	4.80	4	920-04800400-000	35.0	10.67	9.00	5.00	7.88	3.00	5
6	6.63-6.90	6	920-06900600-100	49.0	11.19	11.00	7.03	7.88	3.00	5
6	6.63	6	920-06630600-000	49.0	11.19	11.00	7.03	7.88	3.00	5
6	6.90	6	920-06900600-000	49.0	11.19	11.00	7.03	7.88	3.00	5
8	8.63-9.05	8	920-09050800-100	62.0	13.29	13.50	9.25	7.88	3.00	5
8	8.63	8	920-08630800-000	62.0	13.29	13.50	9.25	7.88	3.00	5
8	9.05	8	920-09050800-000	62.0	13.29	13.50	9.25	7.88	3.00	5

