

Depend-O-Lok FxF Restrained Coupling

**A COUPLING SYSTEM THAT PROVIDES RESTRAINED PIPE JOINTS.
SIMPLE, RUGGED AND DEPENDABLE**

Victaulic Depend-O-Lok FxF restrained couplings meet or exceed quality and performance standards in AWWA, and are able to fully restrain a pipe joint under full test pressure. Depend-O-Lok FxF couplings are much easier to assemble and disassemble than other types of joining methods. Depend-O-Lok couplings are designed to meet system pressure requirements. Coupling and restraint system are easy to protect from corrosion for buried service.

The Depend-O-Lok FxF restraint system consists of restraint rings, furnished with the coupling, that must be welded to the pipe ends. This makes the pipe end preparation easy with the pipe ends reinforcing the rings. Little moment load is transferred to the pipe, which is especially important on light wall pipe.

For quotations, ordering, or technical information call 770-840-0662 or FAX 770-840-8312.



RESTRAINED COUPLING COMPONENTS AND BENEFITS

1 Closure Plates simplify installation by enabling the coupling to seal with fewer bolts (than ordinary sleeve type couplings), and to pull pipes into alignment. This also allows the coupling to be provided in multiple segments, when needed, for ease of handling or installation on existing pipe.

2 Split-sleeve (body) is designed for both high and low pressure applications and maximum pipe protection on "out of round" pipe. The "double arch" shape of the sleeve provides high section modulus and strengthens the pipe joint. Coupling installation is accomplished without the need for jacks, wedges, or sledge hammers.

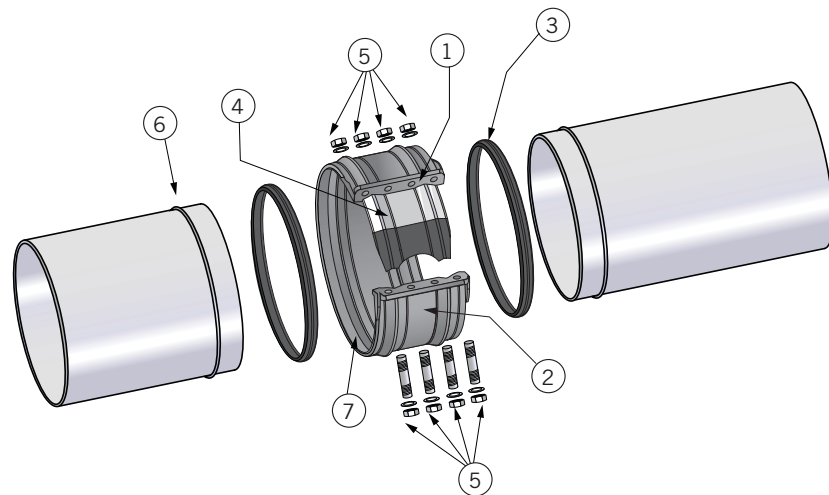
3 O-rings. Proven effective during more than 80 years of use.

4 Sealing Plate/Pad ensures leak-tight seal on joints.

5 Bolts and Nuts are sized to provide yield strength greater than the hoop strength of the coupling body, and utilize flat washers. Stainless steel or hot dipped galvanized bolts are available.

6 Restraint Rings, (provided) must be welded to pipe ends providing the means by which the D-O-L coupling restrains the pipe within the coupling.

7 Shoulders close over the pipe on the outside of the restraint rings to provide end load resistance.



JOB OWNER

System No. _____

Location _____

CONTRACTOR

Submitted By _____

Date _____

ENGINEER

Spec Sect _____ Para _____

Approved _____

Date _____

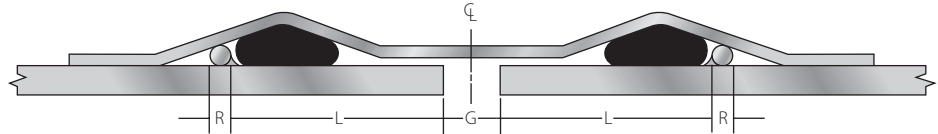
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FxF COUPLINGS PROVIDE RESTRAINED PIPE JOINTS

FxF Type 1 is the basic Depend-O-Lok bolted, split-sleeve coupling that restrains pipe, generally used for small diameter applications at low pressure.



Legend

G = Gap between pipe ends

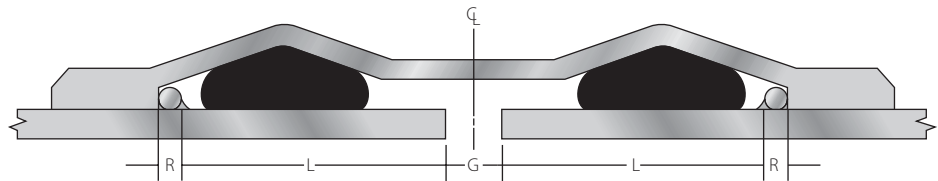
R = Restraint ring diameter

L = From pipe end to leading edge of restraint ring

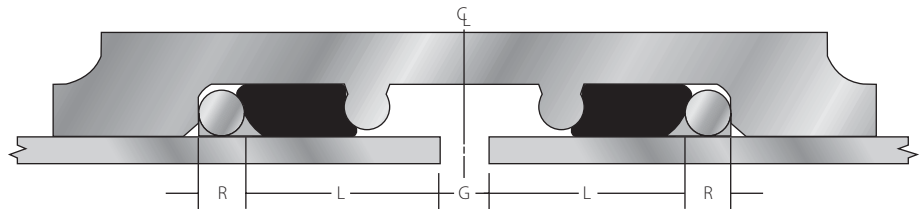


RC STYLE

FxF Type 2 is a shouldered coupling. Project design parameters determine the thickness of the shoulders. This is a heavy duty coupling. **FxF Type 2** couplings are available with additional reinforcement (RC modification – see detail at left) to accommodate higher pressures for certain coupling diameters. See the Standard Designs tables for details.



FxF Type 2 HP is a variation of a Type 2 coupling that includes the RC modification, offset closure plates and thick body design for large diameter restrained couplings at high pressures. The couplings are designed to restrain pipe ends at full axial thrust generated by higher operating pressures but should only be used in applications where angular deflection is not a factor.

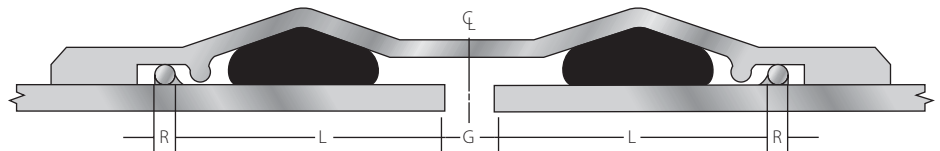


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FxF Type 2 Modified is also a shouldered coupling and project design parameters determine the thickness of the shoulders. As with the standard FxF, the Type 2 Modified coupling is also a heavy duty coupling with a standard width of 12" from 8" through 120" pipe diameters and is available in optional widths. The FxF Type 2 Modified coupling follows the selection criteria with the exception of coupling body width, but is not available as a Type 1 or in a high pressure (HP) configuration. In addition, Modified couplings allow for limited in-service movements including axial expansion/contraction or joint deflection (rotation). The FxF Type 2 Modified couplings are typically utilized in pairs outside of a buried structure to accommodate potential differential settlement of the pipeline and structure. See pages 11-14 for table information.



Segmented Couplings

All FxF couplings are available in two or more segments. This offers an advantage with larger couplings because it reduces shipping and handling costs versus traditional sleeve type couplings. Segmented couplings have the further advantage of reducing the down time to replace a coupling on an existing piping system since the pipe does not have to be moved to allow for a flange ring, gasket, and sleeve as with traditional sleeve couplings.

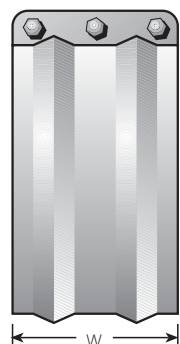
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Depend-O-Lok FxF Restrained Coupling

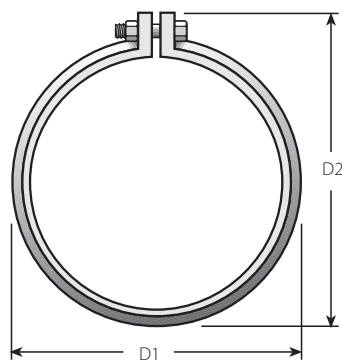
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DIMENSIONS



W = Coupling body width
D1 = Maximum coupling diameter arch to arch
D2 = Maximum coupling diameter including closure plate



Formula:

$$P = \frac{2st}{d}$$

Where:

$s = 12,000$ psi allowable stress for carbon steel

$s = 10,000$ psi allowable stress for stainless steel

$d =$ pipe O.D. (in.)

$P =$ maximum working pressure (psig)

$t =$ coupling body (sleeve) wall thickness (in.)

NOTE: Chart pressures are for Depend-O-Lok FxF restrained couplings. For non-restrained joints, please refer to section 60.10 for additional information.

Gauge:

10 = 0.134 in./3.4 mm 12 = 0.105 in./2.7 mm

11 = 0.120 in./3.1 mm 14 = 0.075 in./1.9 mm

STANDARD DESIGNS FOR DEPEND-O-LOK FxF (RESTRAINED) COUPLINGS ASTM A36 CARBON STEEL

Size	Design Pressure Class	Body Dimensions Inches/mm		Dimensions Inches/mm		Style	No. of Segments	Design Pipe Gap	Max. Allowable Deflection	Restraint Ring Dimensions Inches/mm	
Nominal Pipe Size In./mm	psi	Thick.	Nom. Width (W)	D1	D2	Type	Std.	In./mm	Degrees *	Dia. (R)	Location (L)
6 150	100 - 300 690 - 2068	12 ga. 3	8 203	7.25 184	8.25 210	1	1	0.5 13	4.25	0.19 5	2.16 55
8 200	100 - 250 690 - 1724	11 ga. 3	10 254	9.25 235	10.38 264	1	1	0.75 19	4	0.25 6	2.63 67
	300 2068	10 ga. 3	10 254	9.75 248	11 279	2	1	0.75 19	4	0.25 6	3.38 86
10 250	100 - 250 690 - 1724	10 ga. 3	10 254	11.25 286	12.5 318	1	1	0.75 19	3.5	0.25 6	2.63 67
	300 2068	10 ga. 3	10 254	11.75 286	13 330	2	1	0.75 19	3.5	0.25 6	3.38 86
12 300	100 - 150 690 - 1034	10 ga. 3	10 254	13.25 337	14.5 368	1	1	0.75 19	3.25	0.25 6	2.63 67
	200 - 250 1379 - 1724	10 ga. 3	10 254	13.75 349	15 381	2	1	0.75 19	3.25	0.25 6	3.38 86
	300 2068	3/16 5	10 254	13.88 353	15.13 384	2	1	0.75 19	3.25	0.25 6	3.38 86
14 350	100 - 150 690 - 1034	10 ga. 3	10 254	15.25 387	16.5 419	1	1	0.75 19	3	0.25 6	2.63 67
	200 - 300 1379 - 2068	3/16 5	10 254	15.88 403	17.13 435	2	1	0.75 19	3	0.25 6	3.38 86
16 400	100 - 250 690 - 1724	3/16 5	10 254	17.88 454	19.5 495	2	1	0.75 19	2.5	0.25 6	3.38 86
	300 2068	1/4 6	12 305	18.25 464	19.88 505	2	1	1 25	2.5	0.38 10	4.13 105
18 450	100 - 250 690 - 1724	3/16 5	10 254	19.88 505	21.5 546	2	1	0.75 19	2.25	0.25 6	3.38 86
	300 2068.2	1/4 6	12 305	20.25 514	21.88 556	2	1	1 25	2.25	0.38 10	4.13 105
20 500	100 - 200 690 - 1379	3/16 5	10 254	21.88 556	23.5 597	2	1	0.75 19	2	0.25 6	3.38 86
	250 - 300 1724 - 2068	1/4 6	12 305	22.25 565	23.88 607	2	1	1 25	2	0.38 10	4.13 105
24 600	100 - 150 690 - 1034	3/16 5	10 254	25.88 657	27.5 699	2	1	0.75 19	1.75	0.25 6	3.38 86
	200 - 250 1379 - 1724	1/4 6	12 305	26.25 667	27.88 708	2	1	1 25	1.75	0.38 10	4.13 105
	300 2068.2	3/8 10	12 305	26.5 673	31.25 794	2 RC	2	1 25	1.75	0.38 10	4.13 105
30 750	100 690	3/16 5	10 254	31.88 810	33.5 851	2	1	0.75 19	1.25	0.25 6	3.38 86
	150 - 200 1034 - 1379	1/4 6	12 305	32.25 819	33.88 861	2	1	1 25	1.25	0.38 10	4.13 105
	250 - 300 1724 - 2068	3/8 10	12 305	32.5 826	37.25 946	2 RC	2	1 25	1.25	0.38 10	4.13 105
36 900	100 - 150 690 - 1034	1/4 6	12 305	38.25 972	40.38 1026	2	1	1 25	1	0.38 10	4.13 105
	200 - 250 1379 - 1724	3/8 10	12 305	38.5 978	43.25 1099	2 RC	2	1 25	1	0.38 10	4.13 105
	300 2068	1/2 13	14 356	39 991	44.5 1130	2 RC	2	1 25	1	0.5 13	4.75 121

Shaded areas are gauge/mm. Unshaded areas are in./mm.

* Deflection values shown are for standard Type 1 and Type 2 couplings for installation. In-service values are 1/2 the values shown above.

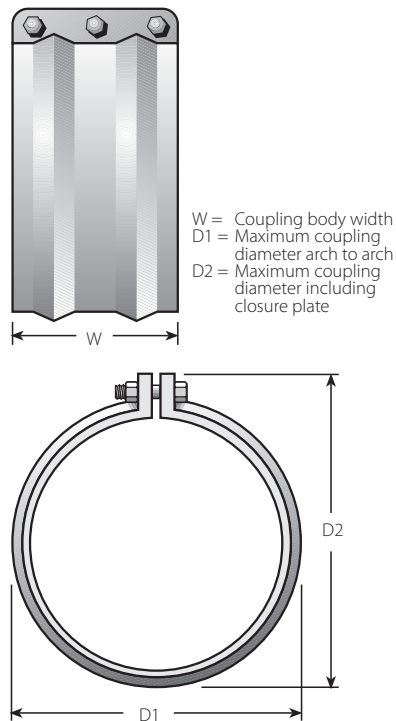
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DIMENSIONS



STANDARD DESIGNS FOR DEPEND-O-LOK FxF (RESTRAINED) COUPLINGS ASTM A36 CARBON STEEL

Size	Design Pressure Class	Body Dimensions Inches/mm		Dimensions Inches/mm		Style	No. of Segments	Design Pipe Gap	Max. Allowable Deflection	Restrainer Ring Dimensions Inches/mm	
Nominal Pipe Size In./mm	psi	Thick.	Nom. Width (W)	D1	D2	Type	Std.	In./mm	Degrees *	Dia. (R)	Location (L)
42 1050	100 - 150 690 - 1034	1/4 6	12 305	44.25 1124	46.38 1178	2	1	1 25	1	0.38 10	4.13 105
	200 1379	3/8 10	12 305	44.5 1130	49.25 1251	2 RC	2	1 25	1	0.38 10	4.13 105
	250 - 300 1724 - 2068	1/2 13	14 356	45 1143	50.5 1283	2 RC	2	1 25	1	0.5 13	4.75 121
48 1200	100 690	1/4 6	12 305	50.25 1276	52.38 1330	2	1	1 25	0.88	0.38 10	4.13 105
	150 1034	3/8 10	12 305	50.5 1283	55.25 1403	2 RC	2	1 25	0.88	0.38 10	4.13 105
	200 - 250 1379 - 1724	1/2 13	14 356	51 1295	56.5 1435	2 RC	2	1 25	0.88	0.5 13	4.75 121
	300 2068	5/8 16	14 356	51.75 1314	57.25 1454	2 RC	2	1 25	0.88	0.75 19	4.5 114
54 1275	100 - 150 690 - 1034	3/8 10	12 305	56.5 1435	61.25 1556	2 RC	2	1 25	0.75	0.38 10	4.13 105
	200 1379	1/2 13	14 356	57 1448	62.5 1588	2 RC	2	1 25	0.75	0.5 13	4.75 121
	250 1724	5/8 16	14 356	57.75 1467	63.25 1607	2 RC	2	1 25	0.75	0.75 19	4.5 114
	300 2068	3/4 19	15 381	57.75 1467	65.25 1657	2 HP	2	1 25	0.5	1 25	3.75 95
60 1575	100 - 150 690 - 1034	3/8 10	12 305	62.5 1588	67.25 1708	2 RC	2	1 25	0.63	0.38 10	4.13 105
	200 1379	1/2 13	14 356	63 1600	68.5 1740	2 RC	2	1 25	0.63	0.5 13	4.75 121
	250 1724	5/8 16	14 356	63.75 1619	69.25 1759	2 RC	2	1 25	0.63	0.75 19	4.5 114
	300 2068	3/4 19	15 381	63.75 1619	71.25 1810	2 HP	2	1 25	0.5	1 25	3.75 95
66 1675	100 690	3/8 10	12 305	68.5 1740	73.25 1861	2 RC	2	1 25	0.63	0.38 10	4.13 105
	150 1034	1/2 13	14 356	69 1753	74.5 1892	2 RC	2	1 25	0.63	0.5 13	4.75 121
	200 1379	5/8 16	14 356	69.75 1772	75.25 1911	2 RC	2	1 25	0.63	0.75 19	4.5 114
	250 1724	3/4 19	15 381	69.75 1772	77.25 1962	2 HP	2	1 25	0.38	1 25	3.75 95
	300 2068	1 25	15 381	70.25 1784	78.25 1988	2 HP	2	1 25	0.38	1 25	3.75 95
72 1875	100 690	3/8 10	12 305	74.5 1892	79.25 2013	2 RC	2	1 25	0.5	0.38 10	4.13 105
	150 1034	1/2 13	14 356	75 1905	80.5 2045	2 RC	2	1 25	0.5	0.5 13	4.75 121
	200 1379	5/8 16	14 356	75.75 1924	81.25 2064	2 RC	2	1 25	0.5	0.75 19	4.5 114
	250 1724	3/4 19	15 381	75.75 1924	83.25 2115	2 HP	2	1 25	0.38	1 25	3.75 95
	300 2068	1 25	15 381	76.25 1937	84.25 2140	2 HP	2	1 25	0.38	1 25	3.75 95

* Deflection values shown are for standard Type 1 and Type 2 couplings for installation. In-service values are 1/2 the values shown above.

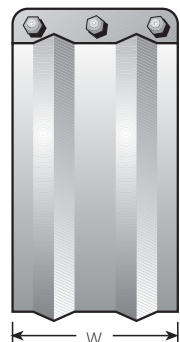
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Depend-O-Lok FxF Restrained Coupling

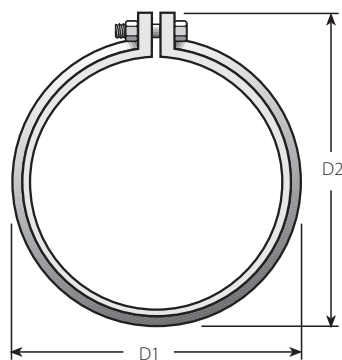
A COUPLING SYSTEM THAT PROVIDES RESTRAINED PIPE JOINTS.
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DIMENSIONS



W = Coupling body width
D1 = Maximum coupling diameter arch to arch
D2 = Maximum coupling diameter including closure plate



STANDARD DESIGNS FOR DEPEND-O-LOK FxF (RESTRAINED) COUPLINGS ASTM A36 CARBON STEEL

Size	Design Pressure Class	Body Dimensions Inches/mm		Dimensions Inches/mm		Style	No. of Segments	Design Pipe Gap	Max. Allowable Deflection	Restraint Ring Dimensions Inches/mm	
Nominal Pipe Size In./mm	psi	Thick.	Nom. Width (W)	D1	D2	Type	Std.	In./mm	Degrees *	Dia. (R)	Location (L)
78 1981	100 690	3/8 10	12 305	80.5 2045	85.25 2165	2 RC	2	1 25	0.5	0.38 10	4.13 105
	150 1034	1/2 13	14 356	81 2057	86.5 2197	2 RC	2	1 25	0.5	0.5 13	4.75 121
	200 1379	3/4 19	15 381	81.75 2076	89.25 2267	2 HP	2	1 25	0.38	1 25	3.75 95
	250 1724	1 25	15 381	82.25 2089	90.25 2292	2 HP	2	1 25	0.38	1 25	3.75 95
84 2150	100 690	3/8 10	12 305	86.5 2197	91.25 2318	2 RC	2	1 25	0.5	0.38 10	4.13 105
	150 1034	1/2 13	14 356	87 2210	92.5 2350	2 RC	2	1 25	0.5	0.5 13	4.75 121
	200 1379	3/4 19	15 381	87.75 2229	95.25 2419	2 HP	2	1 25	0.25	1 25	3.75 95
	250 1724	1 25	15 381	88.25 2242	96.25 2445	2 HP	2	1 25	0.25	1 25	3.75 95
90 2286	100 690	3/8 10	12 305	92.5 2350	97.25 2470	2 RC	2	1 25	0.38	0.38 10	4.13 105
	150 1034	3/8 16	14 356	93.25 2369	99.25 2521	2 RC	2	1 25	0.38	0.75 19	4.5 114
	200 1379	3/4 19	15 381	93.75 2381	101.25 2572	2 HP	2	1 25	0.25	1 25	3.75 95
	250 1724	1 25	15 381	94.25 2394	102.25 2597	2 HP	2	1 25	0.25	1 25	3.75 95
96 2450	100 690	3/8 10	12 305	98.5 2502	103.25 2623	2 RC	2	1 25	0.38	0.38 10	4.13 105
	150 1034	3/8 16	14 356	99.75 2534	105.25 2673	2 RC	2	1 25	0.38	0.75 19	4.5 114
	200 1379	3/4 19	15 381	99.75 2534	107.25 2724	2 HP	2	1 25	0.25	1 25	3.75 95
	250 1724	1 25	15 381	100.25 2546	108.25 2750	2 HP	2	1 25	0.25	1 25	3.75 95
108 2750	75 ** 1905	3/8 10	12 305	110.5 2807	115.25 2927	2 RC	2	1 25	0.38	0.38 10	4.13 105
	100 690	1/2 13	14 356	111 2819	116.25 2953	2 RC	2	1 25	0.38	0.5 13	4.75 121
	150 1034	3/4 19	15 381	111.75 2838	119.25 3029	2 HP	2	1 25	0.25	1 25	3.75 95
	200 1379	1 25	15 381	112.25 2851	120.25 3054	2 HP	2	1 25	0.25	1 25	3.75 95
120 3050	75 ** 1905	3/8 10	12 305	122.5 3112	127.25 3232	2 RC	2	1 25	0.38	0.38 10	4.13 105
	100 690	1/2 13	14 356	123 3124	128.5 3264	2 RC	2	1 25	0.38	0.5 13	4.75 121
	150 1034	3/4 19	15 381	123.75 3143	131.25 3334	2 HP	2	1 25	0.25	1 25	3.75 95
	200 1379	1 25	15 381	124.25 3156	132.25 3359	2 HP	2	1 25	0.25	1 25	3.75 95

* Deflection values shown are for standard Type 1 and Type 2 couplings for installation. In-service values are 1/2 the values shown above.

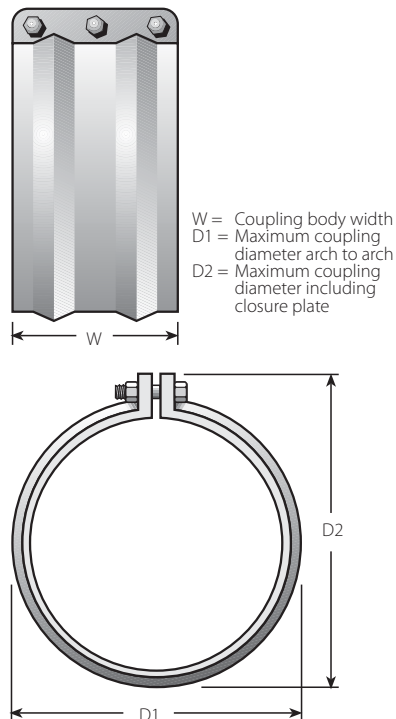
** Pressure class exception.

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DIMENSIONS



STANDARD DESIGNS FOR DEPEND-O-LOK FxF (RESTRAINED) COUPLINGS ASTM A240 316L STAINLESS STEEL

Size	Design Pressure Class	Body Dimensions Inches/mm	Dimensions Inches/mm	Style	No. of Segments	Design Pipe Gap	Max. Allowable Deflection	Restraint Ring Dimensions Inches/mm
Nominal Pipe Size In./mm	psi	Thick. 2	Nom. Width (W) 2	D1 D2	Type	Std.	In./mm	Dia. (R) Location (L)
3 80	25 - 200 172 - 1379	14 ga. 2	5.25 133	4.13 105 5.13 130	1	1	0.38 10	6 0.13 3 1.44 37
4 100	25 - 200 172 - 1379	14 ga. 2	5.25 133	5.13 130 6.13 156	1	1	0.38 10	4.75 0.19 5 1.25 32
6 150	25 - 200 172 - 1379	12 ga. 3	8 203	7.25 184 8.25 210	1	1	0.5 13	4.25 0.19 5 2.16 55
8 200	25 - 200 172 - 1379	11 ga. 3	10 254	9.25 235 10.38 264	1	1	0.75 19	4 0.25 6 2.63 67
10 250	25 - 200 172 - 1379	10 ga. 3	10 254	11.25 286 12.38 314	1	1	0.75 19	3.5 0.25 6 2.63 67
12 300	25 - 200 172 - 1379	10 ga. 3	10 254	13.25 337 14.38 365	1	1	0.75 19	3.25 0.25 6 2.63 67
14 350	25 - 200 172 - 1379	10 ga. 3	10 254	15.25 387 16.38 416	1	1	0.75 19	3 0.25 6 2.63 67
16 400	25 172	3/16 5	10 254	17.38 441 18.5 470	1	1	0.75 19	2.5 0.25 6 2.63 67
	50 - 200 345 - 1379	3/16 5	10 254	17.88 454 19.5 495	2	1	0.75 19	2.5 0.25 6 3.38 86
18 450	25 172	3/16 5	10 254	19.38 492 20.5 521	1	1	0.75 19	2.25 0.25 6 2.63 67
	50 - 200 345 - 1379	3/16 5	10 254	19.88 505 21.5 546	2	1	0.75 19	2.25 0.25 6 3.38 86
20 500	25 172	3/16 5	10 254	21.38 543 22.5 572	2	1	0.75 19	2 0.25 6 2.63 67
	50 - 200 345 - 1379	3/16 5	10 254	21.88 556 23.5 597	2	1	0.75 19	2 0.25 6 3.38 86
24 600	25 172	3/16 5	10 254	25.38 645 26.5 673	1	1	0.75 19	1.75 0.25 6 2.63 67
	50 - 100 345 - 689	3/16 5	10 254	25.88 657 27.5 699	2	1	0.75 19	1.75 0.25 6 3.38 86
	150 - 200 1034 - 1379	1/4 6	12 305	26.25 667 27.88 708	2	1	1 25	1.75 0.38 10 4.13 105
30 750	25 - 100 172 - 689	3/16 5	10 254	31.88 810 33.5 851	2	1	0.75 19	1.25 0.25 6 3.38 86
	150 1034	1/4 6	12 305	32.25 819 33.88 860	2	1	1 25	1.25 0.38 10 4.13 105
	200 1379	3/8 10	12 305	32.5 826 35.75 908	2	2	1 25	1.25 0.38 10 4.13 105
36 900	25 - 50 172 - 345	3/16 5	10 354	37.88 962 39.5 1003	2	1	0.75 19	1 0.25 6 3.38 86
	100 689	1/4 6	12 305	38.25 972 39.88 1013	2	1	1 25	1 0.38 10 4.13 105
	150 - 200 1034 - 1379	3/8 10	12 305	38.5 978 41.75 1060	2	2	1 25	1 0.38 10 4.13 105

Shaded areas are gauge/mm. Unshaded areas are in./mm.

* Deflection values shown are for standard Type 1 and Type 2 couplings for installation. In-service values are 1/2 the values shown above.

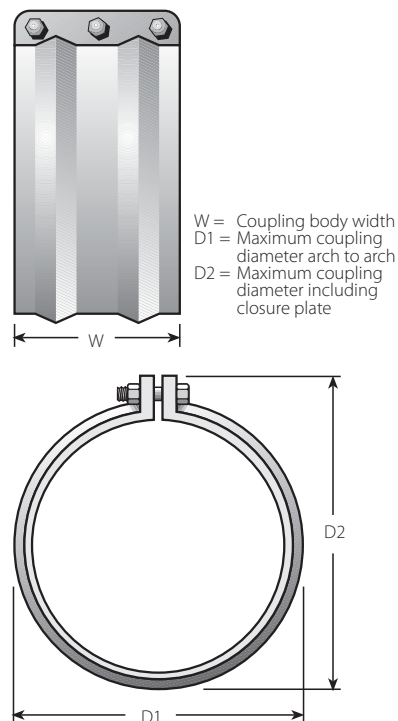
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DIMENSIONS



STANDARD DESIGNS FOR DEPEND-O-LOK FxF (RESTRAINED) COUPLINGS ASTM A240 316L STAINLESS STEEL

Size	Design Pressure Class	Body Dimensions Inches/mm		Dimensions Inches/mm		Style	No. of Segments	Design Pipe Gap	Max. Allowable Deflection	Restrainer Ring Dimensions Inches/mm	
Nominal Pipe Size In./mm	psi	Thick.	Nom. Width (W)	D1	D2	Type	Std.	In./mm	Degrees *	Dia. (R)	Location (L)
42 1050	25 - 100 172 - 689	¼ 6	12 305	44.25 1124	45.88 1165	2	1	1 25	1	0.38 10	4.13 105
	150 1034	⅜ 10	12 305	44.5 1130	47.75 1213	2	2	1 25	1	0.38 10	4.13 105
	200 1379	½ 13	14 356	45 1143	50 1270	2 RC	2	1 25	1	0.5 13	4.75 121
48 1200	25 - 50 172 - 345	¼ 6	12 305	50.25 1276	51.88 1318	2	1	1 25	0.88	0.38 10	4.13 105
	100 689	⅜ 10	12 305	50.5 1283	53.75 1365	2	2	1 25	0.88	0.38 10	4.13 105
	150 1034	½ 13	14 356	51 1295	56 1422	2 RC	2	1 25	0.88	0.5 13	4.75 121
54 1275	25 - 50 172 - 345	¼ 6	12 305	56.25 1429	58.75 1492	2	1	1 25	0.75	0.38 10	4.13 105
	100 689	⅜ 10	12 305	56.5 1435	61.5 1562	2 RC	2	1 25	0.75	0.38 10	4.13 105
	150 1034	½ 13	14 356	57 1448	62 1575	2 RC	2	1 25	0.75	0.5 13	4.75 121
60 1575	25 - 50 172 - 345	¼ 6	12 305	62.25 1581	67.25 1708	2	2	1 25	0.63	0.38 10	4.13 105
	100 689	⅜ 10	12 305	62.5 1588	67.5 1715	2 RC	2	1 25	0.63	0.38 10	4.13 105
	150 1034	½ 13	14 356	63 1600	68 1727	2 RC	2	1 25	0.63	0.5 13	4.75 121
66 1675	25 - 100 172 - 689	⅜ 10	12 305	68.5 1740	73.5 1867	2 RC	2	1 25	0.63	0.38 10	4.13 105
72 1875	25 - 50 172 - 345	⅜ 10	12 305	74.5 1892	79.5 2019	2 RC	2	1 25	0.5	0.38 10	4.13 105
	100 689	½ 13	14 356	75 1905	80 2032	2 RC	2	1 25	0.5	0.5 13	4.75 121
78 1981	25 - 50 172 - 345	⅜ 10	12 305	80.5 2045	85.5 2172	2 RC	2	1 25	0.5	0.38 10	4.13 105
	100 689	½ 13	14 356	81 2057	86 2184	2 RC	2	1 25	0.5	0.5 13	4.75 121
84 2150	25 - 50 172 - 345	⅜ 10	12 305	86.5 2197	91.5 2324	2 RC	2	1 25	0.5	0.38 10	4.13 105
	100 689	½ 13	14 356	87 2210	92 2337	2 RC	2	1 25	0.5	0.5 13	4.75 121
90 2286	25 - 50 172 - 345	⅜ 10	12 305	92.5 2350	97.5 2477	2 RC	2	1 25	0.38	0.38 10	4.13 105
	100 689	½ 13	14 356	93 2362	98 2489	2 RC	2	1 25	0.38	0.5 13	4.75 121
96 2450	25 - 50 172 - 345	⅜ 10	12 305	98.5 2502	103.5 2629	2 RC	2	1 25	0.38	0.38 10	4.13 105

* Deflection values shown are for standard Type 1 and Type 2 couplings for installation. In-service values are ½ the values shown above.

Depend-O-Lok FxF Restrained Coupling

A COUPLING SYSTEM THAT PROVIDES RESTRAINED PIPE JOINTS.
SIMPLE, RUGGED AND DEPENDABLE



AIR PIPING

STAINLESS SYSTEMS

Stainless steel pipe is becoming increasingly popular in water and wastewater treatment plant design. Prior to 1981, stainless steel couplings were not readily available and were overly expensive. Since then Depend-O-Lok stainless steel couplings have been available to provide owners with a total stainless steel system at a reasonable price. Now engineers can design entire stainless steel systems that offer long term economy without the need for carbon steel couplings or ductile iron flanges in contact with the stainless steel pipe.

CAUTION

- Due to the large volumes of air involved in jobsite air testing and the nature of pressurized air or gas, Victaulic urges Engineers and Contractors to limit jobsite test pressure to 25 psi/175 kPa or less.

O-RING GASKET MATERIAL FOR AIR SERVICE

- **EPDM**

Temperature range –30°F to +230°F/–34°C to +110°C. Excellent resistance to the deteriorative effects of ozone, oxygen, heat and most chemicals.

- **Silicone**

Temperature range –30°F to +350°F/–34°C to +177°C. Excellent resistance to ozone. Good resistance to many chemicals.

- **Fluoroelastomer**

Temperature range –20°F to +300°F/–28°C to +149°C. Outstanding resistance to heat and chemicals.

Note: Other gasket compounds are available if required. Contact Victaulic.

Depend-O-Lok Fx F Restrained Coupling

A COUPLING SYSTEM THAT PROVIDES RESTRAINED PIPE JOINTS.
SIMPLE, RUGGED AND DEPENDABLE



WATER PIPING

TESTING

Depend-O-Lok couplings are designed and built to seal air and water at high pressures. Our couplings are randomly tested at the plant to 150 psi/1035 kPa.

STANDARD APPLICATIONS

Piping in:

- Water Plants
- Wastewater Plants
- Force Main Piping
- Slurry Lines
- Penstocks

VACUUM SERVICE

The arched shape of the D-O-L body creates high section modulus. Depend-O-Lok couplings are an excellent choice for vacuum and negative pressure (submerged) service.

O-RING GASKET MATERIAL FOR WATER & SEWAGE SERVICE

- Isoprene
Temperature range -40°F to $+160^{\circ}\text{F}$ / -40°C to $+71^{\circ}\text{C}$. Excellent resistance to water, salt water, and sewage. Good resistance to oxygen and dilute acids.
- EPDM
Temperature range -30°F to $+230^{\circ}\text{F}$ / -34°C to $+110^{\circ}\text{C}$. Excellent resistance to water and salt water.
- Nitrile
Temperature range -20°F to $+180^{\circ}\text{F}$ / -28°C to $+82^{\circ}\text{C}$. Excellent resistance to petroleum oils and gasolines. Good resistance to hydrocarbons, acids and bases.

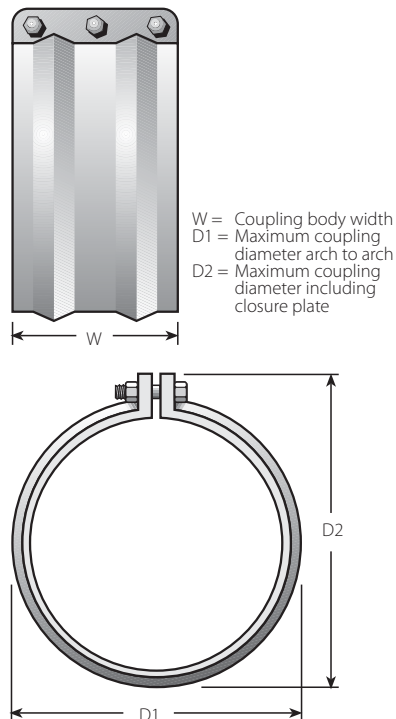
Note: Other gasket compounds are available if required. Contact Victaulic.

Depend-O-Lok FxF Restrained Coupling

A COUPLING SYSTEM THAT PROVIDES RESTRAINED PIPE JOINTS.
SIMPLE, RUGGED AND DEPENDABLE



DIMENSIONS



STANDARD DESIGNS FOR DEPEND-O-LOK FxF MODIFIED (RESTRAINED) COUPLINGS ASTM A36 CARBON STEEL

Size	Design Pressure Class	Body Dimensions Inches/mm		Dimensions Inches/mm		Style	No. of Segments	Design Pipe Gap	Max. Allowable Deflection	Max. Allowable Axial Movement	Restrainer Ring Dimensions Inches/mm	
Nominal Pipe Size In./mm	psi	Thick.	Nominal Width (W)	D1	D2	Type	Std.	In./mm	Degrees *	In./mm *	Dia. (R)	Location (L)
6 150	100 - 300 690 - 2068	12 ga. 3	8 203	7.25 184	8.25 210	2	1	0.75 19	4.25	±0.375 ±10	0.19 5	2.16 55
8 200	100 - 250 690 - 1724	11 ga. 3	12 305	9.25 235	10.38 264	2	1	1 25	4	±0.5 ±13	0.25 6	2.63 67
	300 2068	11 ga. 3	12 305	9.75 248	11 279						0.25 6	3.38 86
10 250	100 - 250 690 - 1724	10 ga. 3	12 305	11.25 286	12.5 318	2	1	1 25	3.5	±0.5 ±13	0.25 6	2.63 67
	300 2068	10 ga. 3	12 305	11.75 286	13 330						0.25 6	3.38 86
12 300	100 - 150 690 - 1034	10 ga. 3	12 305	13.25 337	14.5 368	2	1	1 25	3.25	±0.5 ±13	0.25 6	2.63 67
	200 - 250 1379 - 1724	10 ga. 3	12 305	13.75 349	15 381						0.25 6	3.38 86
	300 2068	¾ 5	12 305	13.88 353	15.13 384						0.25 6	3.38 86
14 350	100 - 150 690 - 1034	10 ga. 3	12 305	15.25 387	16.5 419	2	1	1 25	3	±0.5 ±13	0.25 6	2.63 67
	200 - 300 1379 - 2068	¾ 5	12 305	15.88 403	17.13 435						0.25 6	3.38 86
16 400	100 - 250 690 - 1724	¾ 5	12 305	17.88 454	19.5 495	2	1	1 25	3	±0.5 ±13	0.25 6	3.38 86
	300 2068	¾ 6	12 305	18.25 464	19.88 505						0.38 10	4.13 105
18 450	100 - 250 690 - 1724	¾ 5	12 305	19.88 505	21.5 546	2	1	1 25	3	±0.5 ±13	0.25 6	3.38 86
	300 2068.2	¾ 6	12 305	20.25 514	21.88 556						0.38 10	4.13 105
20 500	100 - 200 690 - 1379	¾ 5	12 305	21.88 556	23.5 597	2	1	1 25	2.5	±0.5 ±13	0.25 6	3.38 86
	250 - 300 1724 - 2068	¾ 6	12 305	22.25 565	23.88 607						0.38 10	4.13 105
24 600	100 - 150 690 - 1034	¾ 5	12 305	25.88 657	27.5 699	2	1	1 25	2	±0.5 ±13	0.25 6	3.38 86
	200 - 250 1379 - 1724	¾ 6	12 305	26.25 667	27.88 708						0.38 10	4.13 105
	300 2068.2	¾ 10	12 305	26.5 673	31.25 794	2 RC	2	1 25	2	±0.5 ±13	0.38 10	4.13 105
30 750	100 690	¾ 5	12 305	31.88 810	33.5 851	2	1	1 25	1.75	±0.5 ±13	0.25 6	3.38 86
	150 - 200 1034 - 1379	¾ 6	12 305	32.25 819	33.88 861						0.38 10	4.13 105
	250 - 300 1724 - 2068	¾ 10	12 305	32.5 826	37.25 946	2 RC	2	1 25	1.75	±0.5 ±13	0.38 10	4.13 105
36 900	100 - 150 690 - 1034	¾ 6	12 305	38.25 972	40.38 1026	2	1	1 25	1.5	±0.5 ±13	0.38 10	4.13 105
	200 - 250 1379 - 1724	¾ 10	12 305	38.5 978	43.25 1099						0.38 10	4.13 105
	300 2068	½ 13	14 356	39 991	44.5 1130	2 RC	2	1.5 38	1.5	±0.5 ±13	0.5 13	4.75 121

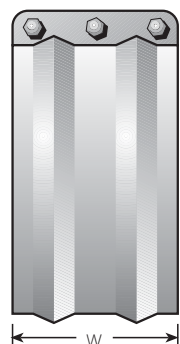
* Allowable deflection and axial movement are nonconcurrent. Indicated deflections are allowed for both installed and in-service conditions. *Continued on next page*

Depend-O-Lok FxF Restrained Coupling

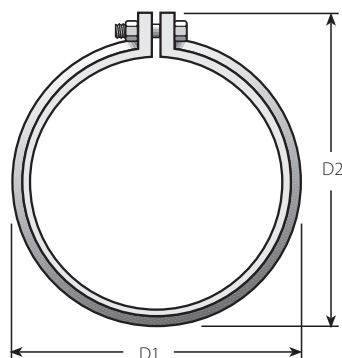
A COUPLING SYSTEM THAT PROVIDES RESTRAINED PIPE JOINTS.
SIMPLE, RUGGED AND DEPENDABLE



DIMENSIONS



W = Coupling body width
D1 = Maximum coupling diameter arch to arch
D2 = Maximum coupling diameter including closure plate



STANDARD DESIGNS FOR DEPEND-O-LOK FxF MODIFIED (RESTRAINED) COUPLINGS ASTM A36 CARBON STEEL

Size	Design Pressure Class	Body Dimensions Inches/mm		Dimensions Inches/mm		Style	No. of Segments	Design Pipe Gap	Max. Allowable Deflection	Max. Allowable Axial Movement	Restraint Ring Dimensions Inches/mm	
Nominal Pipe Size In./mm	psi	Thick.	Nominal Width (W)	D1	D2	Type	Std.	In./mm	Degrees *	In./mm *	Dia. (R)	Location (L)
42 1050	100 - 150 690 - 1034	¾ 6	12 305	44.25 1124	46.38 1178	2	1	1 25	1.25	±0.5 ±13	0.38 10	4.13 105
	200 1379	¾ 10	12 305	44.5 1130	49.25 1251	2 RC	2	1 25	1.25	±0.5 ±13	0.38 10	4.13 105
	250 - 300 1724 - 2068	½ 13	14 356	45 1143	50.5 1283	2 RC	2	1.5 38	1.25	±0.5 ±13	0.5 13	4.75 121
48 1200	100 690	¾ 6	12 305	50.25 1276	52.38 1330	2	1	1 25	1.125	±0.5 ±13	0.38 10	4.13 105
	150 1034	¾ 10	12 305	50.5 1283	55.25 1403	2 RC	2	1 25	1.125	±0.5 ±13	0.38 10	4.13 105
	200 - 250 1379 - 1724	½ 13	14 356	51 1295	56.5 1435	2 RC	2	1.5 38	1.125	±0.5 ±13	0.5 13	4.75 121
54 1275	100 - 150 690 - 1034	¾ 10	12 305	56.5 1435	61.25 1556	2 RC	2	1 25	1	±0.5 ±13	0.38 10	4.13 105
	200 1379	½ 13	14 356	57 1448	62.5 1588	2 RC	2	1.5 38	1	±0.5 ±13	0.5 13	4.75 121
60 1575	100 - 150 690 - 1034	¾ 10	12 305	62.5 1588	67.25 1708	2 RC	2	1 25	0.875	±0.5 ±13	0.38 10	4.13 105
	200 1379	½ 13	14 356	63 1600	68.5 1740	2 RC	2	1.5 38	0.875	±0.5 ±13	0.5 13	4.75 121
66 1675	100 690	¾ 10	12 305	68.5 1740	73.25 1861	2 RC	2	1 25	0.75	±0.5 ±13	0.38 10	4.13 105
	150 1034	½ 13	14 356	69 1753	74.5 1892	2 RC	2	1.5 38	0.75	±0.5 ±13	0.5 13	4.75 121
72 1875	100 690	¾ 10	12 305	74.5 1892	79.25 2013	2 RC	2	1 25	0.75	±0.5 ±13	0.38 10	4.13 105
	150 1034	½ 13	14 356	75 1905	80.5 2045	2 RC	2	1.5 38	0.75	±0.5 ±13	0.5 13	4.75 121
78 1981	100 690	¾ 10	12 305	80.5 2045	85.25 2165	2 RC	2	1 25	0.625	±0.5 ±13	0.38 10	4.13 105
	150 1034	½ 13	14 356	81 2057	86.5 2197	2 RC	2	1.5 38	0.625	±0.5 ±13	0.5 13	4.75 121
84 2150	100 690	¾ 10	12 305	86.5 2197	91.25 2318	2 RC	2	1 25	0.625	±0.5 ±13	0.38 10	4.13 105
	150 1034	½ 13	14 356	87 2210	92.5 2350	2 RC	2	1.5 38	0.625	±0.5 ±13	0.5 13	4.75 121
90 2286	100 690	¾ 10	12 305	92.5 2350	97.25 2470	2 RC	2	1 25	0.625	±0.5 ±13	0.38 10	4.13 105
96 2450	100 690	¾ 10	12 305	98.5 2502	103.25 2623	2 RC	2	1 25	0.5	±0.5 ±13	0.38 10	4.13 105
108 2750	75 ** 1905	¾ 10	12 305	110.5 2807	115.25 2927	2 RC	2	1 25	0.5	±0.5 ±13	0.38 10	4.13 105
	100 690	½ 13	14 356	111 2819	116.25 2953	2 RC	2	1.5 38	0.5	±0.5 ±13	0.5 13	4.75 121
120 3050	75 ** 1905	¾ 10	12 305	122.5 3112	127.25 3232	2 RC	2	1 25	0.375	±0.5 ±13	0.38 10	4.13 105
	100 690	½ 13	14 356	123 3124	128.5 3264	2 RC	2	1.5 38	0.375	±0.5 ±13	0.5 13	4.75 121

* Allowable deflection and axial movement are noncurrent. Indicated deflections are allowed for both installed and in-service conditions.

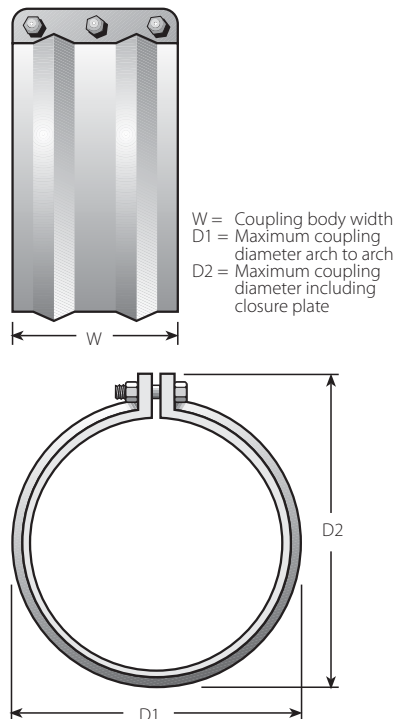
** Pressure class exception.

Depend-O-Lok FxF Restrained Coupling

A COUPLING SYSTEM THAT PROVIDES RESTRAINED PIPE JOINTS.
SIMPLE, RUGGED AND DEPENDABLE



DIMENSIONS



STANDARD DESIGNS FOR DEPEND-O-LOK FxF MODIFIED (RESTRAINED) COUPLINGS ASTM A240 316L STAINLESS STEEL

Size	Design Pressure Class	Body Dimensions Inches/mm		Dimensions Inches/mm		Style	No. of Segments	Design Pipe Gap	Max. Allowable Deflection	Max. Allowable Axial Deflection	Restrainer Ring Dimensions Inches/mm	
Nominal Pipe Size In./mm	psi	Thick.	Nominal Width (W)	D1	D2	Type	Std.	In./mm	Degrees*	In./mm *	Dia. (R)	Location (L)
6 150	25 - 200 172 - 1379	12 ga. 3	8 203	7.25 184	8.25 210	2	1	0.75 19	4.25	±0.375 ±10	0.19 5	2.16 55
8 200	25 - 200 172 - 1379	11 ga. 3	12 305	9.25 235	10.38 264	2	1	1 25	4	±0.5 ±13	0.25 6	2.63 67
10 250	25 - 200 172 - 1379	10 ga. 3	12 305	11.25 286	12.38 314	2	1	1 25	3.5	±0.5 ±13	0.25 6	2.63 67
12 300	25 - 200 172 - 1379	10 ga. 3	12 305	13.25 337	14.38 365	2	1	1 25	3.25	±0.5 ±13	0.25 6	2.63 67
14 350	25 - 200 172 - 1379	10 ga. 3	12 305	15.25 387	16.38 416	2	1	1 25	3	±0.5 ±13	0.25 6	2.63 67
16 400	25 172	3/16 5	12 305	17.38 441	18.5 470	2	1	1 25	3	±0.5 ±13	0.25 6	2.63 67
	50 - 200 345 - 1379	3/16 5	12 305	17.88 454	19.5 495						0.25 6	3.38 86
18 450	25 172	3/16 5	12 305	19.38 492	20.5 521	2	1	1 25	3	±0.5 ±13	0.25 6	2.63 67
	50 - 200 345 - 1379	3/16 5	12 305	19.88 505	21.5 546						0.25 6	3.38 86
20 500	25 172	3/16 5	12 305	21.38 543	22.5 572	2	1	1 25	2.5	±0.5 ±13	0.25 6	2.63 67
	50 - 200 345 - 1379	3/16 5	12 305	21.88 556	23.5 597						0.25 6	3.38 86
24 600	25 172	3/16 5	12 305	25.38 645	26.5 673	2	1	1 25	2	±0.5 ±13	0.25 6	2.63 67
	50 - 100 345 - 689	3/16 5	12 305	25.88 657	27.5 699						0.25 6	3.38 86
	150 - 200 1034 - 1379	1/4 6	12 305	26.25 667	27.88 708						0.38 10	4.13 105
30 750	25 - 100 172 - 689	3/16 5	12 305	31.88 810	33.5 851	2	1	1 25	1.75	±0.5 ±13	0.25 6	3.38 86
	150 1034	1/4 6	12 305	32.25 819	33.88 860						0.38 10	4.13 105
	200 1379	3/8 10	12 305	32.5 826	35.75 908						0.38 10	4.13 105
36 900	25 - 50 172 - 345	3/16 5	12 305	37.88 962	39.5 1003	2	1	1 25	1.5	±0.5 ±13	0.25 6	3.38 86
	100 689	1/4 6	12 305	38.25 972	39.88 1013						0.38 10	4.13 105
	150 - 200 1034 - 1379	3/8 10	12 305	38.5 978	41.75 1060						0.38 10	4.13 105
42 1050	25 - 100 172 - 689	1/4 6	12 305	44.25 1124	45.88 1165	2	1	1 25	1.25	±0.5 ±13	0.38 10	4.13 105
	150 1034	3/8 10	12 305	44.5 1130	47.75 1213						0.38 10	4.13 105
	200 1379	1/2 13	14 356	45 1143	50 1270	2 RC	2	1.5 38	1.25	±0.5 ±13	0.5 13	4.75 121

* Allowable deflection and axial movement are nonconcurrent. Indicated deflections are allowed for both installed and in-service conditions.

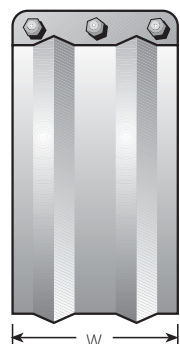
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Depend-O-Lok FxF Restrained Coupling

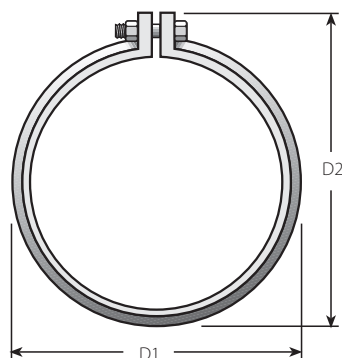
A COUPLING SYSTEM THAT PROVIDES RESTRAINED PIPE JOINTS.
SIMPLE, RUGGED AND DEPENDABLE



DIMENSIONS



W = Coupling body width
D1 = Maximum coupling diameter arch to arch
D2 = Maximum coupling diameter including closure plate



STANDARD DESIGNS FOR DEPEND-O-LOK FxF MODIFIED (RESTRAINED) COUPLINGS ASTM A240 316L STAINLESS STEEL

Size	Design Pressure Class	Body Dimensions Inches/mm		Dimensions Inches/mm		Style	No. of Segments	Design Pipe Gap	Max. Allowable Deflection	Max. Allowable Axial Deflection	Restraint Ring Dimensions Inches/mm	
Nominal Pipe Size In./mm	psi	Thick.	Nominal Width (W)	D1	D2	Type	Std.	In./mm	Degrees*	In./mm *	Dia. (R)	Location (L)
48 1200	25 - 50 172 - 345	¼ 6	12 305	50.25 1276	51.88 1318	2	1	1 25	1.125	±0.5 ±13	0.38 10	4.13 105
	100 689	⅜ 10	12 305	50.5 1283	53.75 1365						0.38 10	4.13 105
	150 1034	½ 13	14 356	51 1295	56 1422	2 RC	2	1.5 38	1.125	±0.5 ±13	0.5 13	4.75 121
54 1275	25 - 50 172 - 345	¼ 6	12 305	56.25 1429	58.75 1492	2	1	1 25	1	±0.5 ±13	0.38 10	4.13 105
	100 689	⅜ 10	12 305	56.5 1435	61.5 1562	2 RC	2	1 25	1	±0.5 ±13	0.38 10	4.13 105
	150 1034	½ 13	14 356	57 1448	62 1575	2 RC	2	1.5 38	1	±0.5 ±13	0.5 13	4.75 121
60 1575	25 - 50 172 - 345	¼ 6	12 305	62.25 1581	67.25 1708	2	2	1 25	0.875	±0.5 ±13	0.38 10	4.13 105
	100 689	⅜ 10	12 305	62.5 1588	67.5 1715	2 RC	2	1 25	0.875	±0.5 ±13	0.38 10	4.13 105
	150 1034	½ 13	14 356	63 1600	68 1727						0.5 13	4.75 121
66 1675	25 - 100 172 - 689	⅜ 10	12 305	68.5 1740	73.5 1867	2 RC	2	1 25	0.75	±0.5 ±13	0.38 10	4.13 105
72 1875	25 - 50 172 - 345	⅜ 10	12 305	74.5 1892	79.5 2019	2 RC	2	1 25	0.75	±0.5 ±13	0.38 10	4.13 105
	100 689	½ 13	14 356	75 1905	80 2032	2 RC	2	1.5 38	0.75	±0.5 ±13	0.5 13	4.75 121
78 1981	25 - 50 172 - 345	⅜ 10	12 305	80.5 2045	85.5 2172	2 RC	2	1 25	0.625	±0.5 ±13	0.38 10	4.13 105
	100 689	½ 13	14 356	81 2057	86 2184	2 RC	2	1.5 38	0.625	±0.5 ±13	0.5 13	4.75 121
84 2150	25 - 50 172 - 345	⅜ 10	12 305	86.5 2197	91.5 2324	2 RC	2	1 25	0.625	±0.5 ±13	0.38 10	4.13 105
	100 689	½ 13	14 356	87 2210	92 2337	2 RC	2	1.5 38	0.625	±0.5 ±13	0.5 13	4.75 121
90 2286	25 - 50 172 - 345	⅜ 10	12 305	92.5 2350	97.5 2477	2 RC	2	1 25	0.625	±0.5 ±13	0.38 10	4.13 105
	100 689	½ 13	14 356	93 2362	98 2489	2 RC	2	1.5 38	0.625	±0.5 ±13	0.5 13	4.75 121
96 2450	25 - 50 172 - 345	⅜ 10	12 305	98.5 2502	103.5 2629	2 RC	2	1 25	0.5	±0.5 ±13	0.38 10	4.13 105

* Allowable deflection and axial movement are nonconcurrent. Indicated deflections are allowed for both "installed" and "in-service" conditions.

Depend-O-Lok FxF Restrained Coupling

A COUPLING SYSTEM THAT PROVIDES RESTRAINED PIPE JOINTS.
SIMPLE, RUGGED AND DEPENDABLE



DISHED HEAD BY D-O-L END SPOOL PIECE

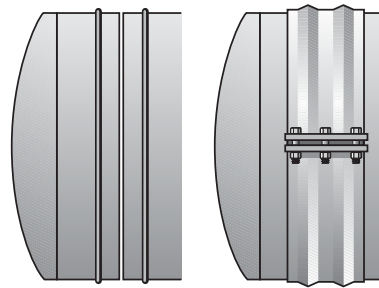
An effective, economical method of:

- Ending a pipeline for future addition.
- Closing of a section of pipeline for air or hydro test of a water pipe or air test of an air pipeline.

CAUTION

- Due to the large volumes of air involved in jobsite air testing and the nature of pressurized air or gas, Victaulic urges Engineers and Contractors to limit jobsite test pressure to 25 psi or less.

The dished head spool end is prepared for Depend-O-Lok FxF couplings. The thickness of the dished head is determined by the test pressure. This method is typical for steel, stainless steel, ductile iron, and polyethylene pipe.



DISHED HEAD SPOOL PIECE

PIPE END PREPARATION FOR JOINTS RESTRAINED BY D-O-L FxF

C.S., S.S. & D.I. Pipe – Restraint rings furnished with the D-O-L couplings are welded to the pipe ends.

Polyethylene Pipe (PE) – D-O-L FxF Type 2 couplings have a shoulder that sits in grooves that are cut into the PE at each pipe end. For gravity to very low pressure applications, the D-O-L couplings may be furnished with bosses around each edge. After installation, holes are drilled into the pipe through each boss and a set screw is threaded through the boss into the wall of the pipe. Contact Victaulic for details.

Depend-O-Lok Fx F Restrained Coupling

A COUPLING SYSTEM THAT PROVIDES RESTRAINED PIPE JOINTS.
SIMPLE, RUGGED AND DEPENDABLE



WARRANTY

Refer to the Warranty section of the current Price List or contact Victaulic for details.

NOTE

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

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