

Lightweight Flexible Stainless Steel Coupling

Style 475



17.14



1" – 4"/25 – 165.1MM

Approvals/Listings:

See Victaulic [Publication 02.06](#) for potable water approvals if applicable.

Product Description:

Designed to provide a durable mechanical joint for grooved end stainless steel piping systems, Style 475 stainless steel couplings are available in Type 316 (CF8M). See page 3 for pressure ratings based on ANSI wall thicknesses and page 4 for pressure ratings for ISO wall thicknesses. The Style 475 comes standard with WRAS-certified, Grade “EW” EPDM gasket material with approved microbiological resistance.

Stainless steel track bolts, which provide single-wrench tightening, are provided as standard.

The Victaulic system accommodates expansion/contraction/deflection and permits designers to take advantage of these characteristics. Elimination or reduction of special vibration accessories, expansion loops and settlement allowance are among the options. Request [publication 26.01](#), [26.02](#) and [26.04](#) for additional details.

Unique design features of the Style 475 coupling permit assembly by removing one nut/bolt and scissoring housing over gasket. This reduces the number of components to handle during assembly, which speeds and eases installation.

NOTE: For duplex and super duplex options, please see submittal [publication 17.34](#) for Style 475DX.



WARNING

- **Victaulic RX roll sets must be used when grooving light-wall/thin-wall stainless steel pipe for use with Victaulic Couplings.**

Failure to use Victaulic RX roll sets when grooving light-wall/thin-wall stainless steel pipe may cause joint failure, resulting in serious personal injury and/or property damage.

NOTICE

- **Victaulic RX grooving rolls must be ordered separately. They are identified by a silver color and the designation RX on the front of the roll sets.**

Job/Owner

System No.	
Location	

Contractor

Submitted By	
Date	

Engineer

Spec Section	
Paragraph	
Approved	
Date	



Material Specifications:

Housing: Type 316 stainless steel, conforming to ASTM-A351, A743, and A744 Grade CF8M.

Housing Coating: None

Standard Gaskets:

Grade “EW” EPDM: EPDM (Green “W” color code). Temperature -30°F to +230°F/ -34°C to +110°C. May be specified for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. WRAS-certified material with approved microbiological resistance to BS 6920 for cold and hot potable water service up to +149°F/+65°C. UL Classified in accordance with ANSI/NSF 61 for cold +73°F/+23°C and hot +180°F/+82°C potable water service and ANSI/NSF 372. NOT COMPATIBLE FOR PETROLEUM SERVICES.

Optional Gaskets: (specify choice)

Grade “E” EP DM: EPDM (Green stripe color code). Temperature range -30°F to +250°F/-34°C to +110°C. May be specified for cold and hot water service within the specified temperature range plus a variety of dilute acids, oil free air and many chemical services. UL Classified in accordance with ANSI/NSF 61 for cold +73°F/+23°C and hot +180°F/+82°C potable water service and ANSI/NSF 372. NOT COMPATIBLE FOR PETROLEUM SERVICES.

Grade “T” nitrile Nitrile (Orange stripe color code). Temperature range -20°F to +180°F/-29°C to +82°C. May be specified for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not compatible for hot water services over +150°F/+66°C or for hot dry air over +140°F/+60°C.

Grade “O” fluoroelastomer: Fluoroelastomer (Blue stripe color code). Temperature range +20°F to + 300°F/- 7°C to +149°C. May be specified for many oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids and air with hydrocarbons.

Grade “A” White Nitrile: White nitrile (White gasket). Temperature range +20°F to +180°F/-7°C to +82 °C. No carbon black content. May be used for food services. Meets FDA requirements and conforms to CFR Title 21 Part 177.2600.

* Services listed are General Service Guidelines only. It should be noted that there are services for which these gaskets are not compatible. Reference should always be made to the latest Victaulic Gasket Selection Guide (05.01) for specific gasket service guidelines and for a listing of services which are not compatible.

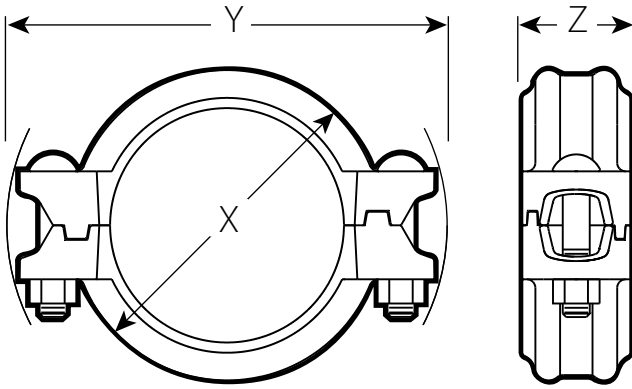
Other gaskets are available. Please refer to [05.01](#).

Hardware:

Bolts: Type 316 stainless steel, oval neck track bolts and heavy hex nuts with chemical and physical properties of ASTM F-593, Group 2, Condition CW and special anti-galling coating.

Nuts: Heavy hex nut, ASTM F-594, Group 2 (316 stainless steel), condition CW with special antigalling coating

Dimensions:



Typical for all sizes

Nominal Size	Actual Outside Diameter	Allow. Pipe End Sep. ¹	Deflection from Centerline ¹		Bolt/Nut No.-Size	Dimensions – Inches/mm			Approx. Weight Each
			Per Coupling Degrees	Pipe In./Ft. mm/m		X	Y	Z	
1 25	1.315 33.7	0 – 0.06 0 – 1.6	2° – 43'	0.57 48	2 – 3/8 x 2	2.13 54	3.98 101	1.63 41	1.3 0.6
1 1/4 32	1.660 42.4	0 – 0.06 0 – 1.6	2° – 10'	0.45 38	2 – 3/8 x 2	2.46 63	4.45 113	1.72 44	1.4 0.6
1 1/2 40	1.900 48.3	0 – 0.06 0 – 1.6	1° – 56'	0.40 33	2 – 3/8 x 2	2.72 69	4.52 115	1.72 44	1.5 0.7
2 50	2.375 60.3	0 – 0.06 0 – 1.6	1° – 30'	0.32 26	2 – 3/8 x 2	3.30 84	5.03 128	1.80 46	1.7 0.8
2 1/2 65	2.875 73.0	0 – 0.06 0 – 1.6	1° – 15'	0.26 22	2 – 3/8 x 2	3.88 99	5.59 142	1.80 46	1.9 0.9
76.1 mm	3.000 76.1	0 – 0.06 0 – 1.6	1° – 12'	0.25 21	2 – 3/8 x 2	4.00 102	5.73 146	1.80 46	1.9 0.9
3 80	3.500 88.9	0 – 0.06 0 – 1.6	1° – 1'	0.21 18	2 – 1/2 x 2 3/4	4.50 114	6.67 169	1.80 46	2.9 1.3
4 100	4.500 114.3	0 – 0.13 0 – 3.2	1° – 35'	0.33 28	2 – 1/2 x 2 3/4	5.75 146	7.96 202	2.00 51	4.2 1.9
139.7 mm	5.500 139.7	0 – 0.13 0 – 3.2	1° – 18'	0.27 23	2 – 1/2 x 2 3/4	6.81 173	8.97 228	2.00 51	4.9 2.2
165.1 mm	6.500 165.1	0 – 0.13 0 – 3.2	1° – 6'	0.23 19	2 – 3/8 x 3 1/2	7.87 200	10.53 268	2.00 51	6.8 3.1

¹ Allowable Pipe End Separation and Deflection figures show the maximum nominal range of movement available at each joint for standard roll grooved pipe. Figures for standard cut grooved pipe may be doubled. These figures are maximums; for design and installation purposes these figures should be reduced by: 50% for 3/4 – 3 1/2"/20 – 90 mm; 25% for 4"/100 mm and larger.

Performance on ANSI Wall Thicknesses:

Nominal Size inches mm	Actual Outside Diameter inches mm	Pipe Wall Thickness		Groove Type	Maximum	
		inches mm	ANSI Schedule Number		Working Pressure PSI kPa	End Load Lbs N
1 25	1.315 33.7	0.179 4.9	80S	C	500 3447	679 3021
		0.133 3.6	40S	Std/C	500 3447	679 3021
		0.109 2.8	10S	RX	350 2413	475 2114
		0.065 1.7	5S	RX	225 1551	306 1359
1 1/4 32	1.660 42.4	0.191 4.9	80S	C	500 3447	1082 4813
		0.140 3.6	40S	Std/C	500 3447	1082 4813
		0.109 2.8	10S	RX	350 2413	757 3369
		0.065 1.7	5S	RX	225 1551	487 2166
1 1/2 40	1.900 48.3	0.200 5.1	80S	C	500 3447	1418 6306
		0.145 3.7	40S	Std/C	500 3447	1418 6306
		0.109 2.8	10S	RX	350 2413	992 4414
		0.065 1.7	5S	RX	225 1551	638 2837
2 50	2.375 60.3	0.218 5.5	80S	C	500 3447	2215 9853
		0.154 3.9	40S	Std/C	500 3447	2215 9853
		0.109 2.8	10S	RX	350 2413	1550 6897
		0.065 1.7	5S	RX	225 1551	997 4433
2 1/2 65	2.875 73.0	0.276 7.0	80S	C	500 3447	3246 14438
		0.203 5.2	40S	Std/C	500 3447	3246 14438
		0.120 3.1	10S	RX	350 2413	2272 10106
		0.083 2.1	5S	RX	232 1600	1506 6699
3 80	3.500 88.9	0.300 7.6	80S	C	500 3447	4811 21398
		0.216 5.5	40S	Std/C	500 3447	4811 21398
		0.120 3.1	10S	RX	350 2413	3367 14978
		0.083 2.1	5S	RX	232 1600	2232 9929
4 100	4.500 114.3	0.337 8.6	80S	C	500 3447	5169 22994
		0.237 6.0	40S	Std/C	500 3447	5169 22994
		0.120 3.1	10S	RX	350 2413	4771 21224
		0.083 2.1	5S	RX	232 1600	3690 16413

RX= Roll Set for light wall stainless steel pipe marked with the prefix "RX"
 Std= Standard roll set marked with the prefix "R"
 C= Cut groove

Performance on ISO Wall Thicknesses:

Nominal Size mm inches	Actual Outside Diameter mm inches	Pipe Wall Thickness mm inches	Groove Type	Maximum	
				Working Pressure kPa PSI	End Load N Lbs
25 1	33.7 1.315	4.5 0.177	C	3447 500	3021 679
		3.2 0.126	Std	2930 425	3021 679
		2.6 0.102	RX	2241 325	1963 441
		2.3 0.091	RX	2065 300	1812 407
		2.0 0.079	RX	1724 250	1510 340
		1.6 0.063	RX	1551 225	1359 306
32 1 1/4	42.4 1.660	5.0 0.197	C	3447 500	4813 1082
		3.6 0.142	Std/C	3447 500	4813 1082
		3.2 0.126	Std	2930 425	4091 920
		2.6 0.102	RX	2241 325	3129 703
		2.0 0.079	RX	1724 250	2407 541
		1.6 0.063	RX	1551 225	2166 487
40 1 1/2	48.3 1.900	5.0 0.197	C	3447 500	6306 1418
		3.6 0.142	Std/C	3275 475	5991 1347
		3.2 0.126	Std	2758 400	5045 1134
		2.6 0.102	RX	2241 325	4099 921
		2.0 0.079	RX	1724 250	3153 709
		1.6 0.063	RX	1551 225	2837 368
50 2	60.3 2.375	5.6 0.220	C	3447 500	9853 2215
		4.0 0.157	Std/C	3447 500	9853 2215
		3.6 0.142	Std	3103 450	8868 1994
		3.2 0.126	Std	2758 400	7882 1772
		2.9 0.114	Std	2413 350	6897 1551
		2.6 0.102	RX	2241 325	6404 1440
		2.3 0.091	RX	2065 300	5912 1329
		2.0 0.079	RX	1724 250	4927 1108
		1.6 0.063	RX	1551 225	4433 997

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Performance on ISO Wall Thicknesses:

Nominal Size mm inches	Actual Outside Diameter mm inches	Pipe Wall Thickness mm inches	Groove Type	Maximum	
				Working Pressure kPa PSI	End Load N Lbs
76.1 mm	76.1 3.000	7.1 0.280	C	3447 500	15721 3534
		6.4 0.252	C	3447 500	15741 3534
		5.0 0.197	Std/C	2930 425	13363 3004
		4.0 0.157	Std	2758 400	12577 2827
		3.6 0.142	Std	2586 375	11791 2651
		3.1 0.122	Std	2413 350	11004 2474
		2.9 0.114	RX	2241 325	10219 2297
		2.6 0.102	RX	2065 300	9433 2121
		2.3 0.091	RX	1724 250	7861 1767
		2.1 0.083	RX	1600 232	7295 1640
		2.0 0.079	RX	1600 232	7295 1640
		80 3	88.9 3.500	8.0 0.315	C
5.6 0.220	Std/C			3447 500	21398 4811
4.0 0.157	Std			2758 400	17119 3848
3.6 0.142	Std			2586 375	16049 3608
3.2 0.126	Std			2313 350	14979 3367
2.9 0.114	RX			20241 325	13909 3127
2.6 0.102	RX			2065 300	12839 2886
2.3 0.091	RX			1724 250	10699 2405
2.0 0.079	RX			1600 232	9929 2232

For pressure ratings on wall thicknesses not mentioned please contact Victaulic

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 C= Cut groove

Performance on ISO Wall Thicknesses:

Nominal Size mm inches	Actual Outside Diameter mm inches	Pipe Wall Thickness mm inches	Groove Type	Maximum	
				Working Pressure kPa PSI	End Load N Lbs
100 4	114.3 4.500	8.8 0.346	C	2241 325	22994 5169
		6.3 0.248	C	2241 325	22994 5169
		4.5 0.177	Std	2065 300	21224 4771
		3.6 0.142	Std	2065 300	21224 4771
		2.9 0.114	RX	2065 300	21224 4771
		2.6 0.102	RX	1896 275	19455 4374
		2.0 0.079	RX	1600 232	16413 3690
139.7 mm	139.7 5.500	10.0 0.394	C	1600 232	24518 5512
		7.1 0.280	C	1600 232	24518 5512
		6.6 0.260	Std	1600 232	24518 5512
		6.6 0.260	C	1600 232	24518 5512
		6.3 0.248	Std/C	1600 232	24518 5512
		5.6 0.220	Std/C	1600 232	24518 5512
		5.0 0.197	Std	1600 232	24518 5512
		4.0 0.157	Std	1600 232	24518 5512
		3.4 0.134	RX	1207 175	18494 4158
		3.2 0.126	RX	1034 150	15852 3564
		2.8 0.110	RX	862 125	13113 2970

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Std= Standard roll set marked with the prefix "R"
C= Cut groove

Installation

Reference should always be made to the [I-100 Victaulic Field Installation Handbook](#) for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

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.

Trademarks

Victaulic is a registered trademark of Victaulic Company.