

## Lightweight Flexible Stainless Steel Coupling

### STYLE 475

Designed to provide a durable mechanical joint for grooved end stainless steel piping systems, Style 475 stainless steel couplings are Type 316 (CF8M) stainless steel for corrosion resistance and strength. See chart on page 2 for pressure ratings.

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 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.



PATENT PENDING

### MATERIAL SPECIFICATIONS

**Housing:** Type 316 stainless steel, conforming to ASTM-A351, A743, and A744 Grade CF-8M.

**Housing Coating:** None

#### Gaskets:

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

- **Grade "E" EPDM**

EPDM (Green color code). Temperature range  $-30^{\circ}\text{F}$  to  $+230^{\circ}\text{F}$  /  $-34^{\circ}\text{C}$  to  $+110^{\circ}\text{C}$ .

Recommended 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 to ANSI/NSF 61 for cold  $+86^{\circ}\text{F}/+30^{\circ}\text{C}$  and hot  $+180^{\circ}\text{F}/+82^{\circ}\text{C}$  potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.

- **Grade "T" nitrile**

Nitrile (Orange color code). Temperature range  $-20^{\circ}\text{F}$  to  $+180^{\circ}\text{F}$  /  $-29^{\circ}\text{C}$  to  $+82^{\circ}\text{C}$ .

Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over  $+150^{\circ}\text{F}/+66^{\circ}\text{C}$  or for hot dry air over  $+140^{\circ}\text{F}/+60^{\circ}\text{C}$ .

Continued on page 2

### JOB OWNER

System No. \_\_\_\_\_

Location \_\_\_\_\_

### CONTRACTOR

Submitted By \_\_\_\_\_

Date \_\_\_\_\_

### ENGINEER

Spec Sect \_\_\_\_\_ Para \_\_\_\_\_

Approved \_\_\_\_\_

Date \_\_\_\_\_

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### MATERIAL SPECIFICATIONS

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#### Optional Gaskets: (specify choice\*)

- **Grade "O" fluoroelastomer**

Fluoroelastomer (Blue color code). Temperature range +20°F to + 300°F/- 7°C to +149°C. Recommended for many oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids and air with hydrocarbons.

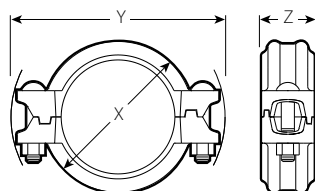
- **Grade "A" white nitrile**

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.

Other gaskets are available. Please refer to 05.01.

**Bolts/Nuts:** 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.

### DIMENSIONS



TYPICAL FOR ALL SIZES

Size		Allowable Pipe End Sep. †	Deflect. From CL †		Bolt/Nut No. – Size	Dimensions – Inches/millimeters			Approx. Wgt. Ea.
Nominal Size In./mm	Actual Outside Diameter In./mm	In./mm	Per Cplg. Deg.	Pipe In./Ft. mm/m	Inches	X	Y	Z	Lbs. kg
1 25	1.315 33.7	0 – 0.06 0 – 1.6	2° – 43′	0.57 48	2 – 3⁄8 x 2	2.45 62	4.36 111	1.63 41	1.6 0.7
1 ¼ 32	1.660 42.4	0 – 0.06 0 – 1.6	2° – 10′	0.45 38	2 – 3⁄8 x 2	2.84 72	4.67 119	1.72 44	2.4 0.9
1 ½ 40	1.900 48.3	0 – 0.06 0 – 1.6	1° – 56′	0.40 33	2 – 3⁄8 x 2	3.22 82	4.74 120	1.72 44	2.6 1.0
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 ½ 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 – ½ x 2 ¾	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 – ½ x 2 ¾	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 – ½ x 2 ¾	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 – 5⁄8 x 3 ½	7.87 200	10.53 268	2.00 51	6.8 3.1

† 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.

‡ Denotes JIS pipe sizes.

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### PERFORMANCE

Size		Schedule 40S			Schedule 10S			Schedule 5S		
Nominal Size In./mm	Actual Outside Diameter In./mm	Max. Joint Work. Press.* psi/kPa	Max. Perm. End Load Lbs./N	Nom. Wall Thick. In./mm	Max. Joint Work. Press.* psi/kPa	Max. Perm. End Load Lbs./N	Nom. Wall Thick. In./mm	Max. Joint Work. Press.* psi/kPa	Max. Perm. End Load Lbs./N	Nom. Wall Thick. In./mm
1 25	1.315 33.7	750 5171	1020 4539	0.133 3.38	500 3447	680 3026	0.109 2.77	325 2241	440 1958	0.065 1.65
1 ¼ 32	1.660 42.4	750 5171	1625 7231	0.140 3.56	500 3447	1080 4806	0.109 2.77	325 2241	700 3115	0.065 1.65
1 ½ 40	1.900 48.3	750 5171	2125 9456	0.145 3.68	500 3447	1415 6295	0.109 2.77	325 2241	920 4094	0.065 1.65
2 50	2.375 60.3	500 3447	2215 9857	0.154 3.91	350 2413	1550 6898	0.109 2.77	225 1551	1000 4450	0.065 1.65
2 ½ 65	2.875 73.0	500 3447	3250 14463	0.203 5.16	350 2413	2275 10124	0.120 3.05	225 1551	1460 6497	0.083 2.11
76.1 mm	3.000 76.1	500 3447	3535 15731	0.203 5.16	350 2413	2475 11014	0.120 3.05	225 1551	1590 7076	0.083 2.11
3 80	3.500 88.9	500 3447	4810 21405	0.216 5.49	350 2413	3370 14997	0.120 3.05	225 1551	2170 9657	0.083 2.11
4 100	4.500 114.3	325 # 2241	5170 23007	0.237 6.02	300 2068	4775 21250	0.120 3.05	200 1379	3180 14150	0.083 2.11
139.7 mm	5.500 139.7	200 1379	4750 21138	0.258 6.55	200 1379	4750 21138	0.134 3.40	125 862	2970 13217	0.109 2.77
165.1 mm	6.500 165.1	200 1379	6640 29550	0.280 7.11	200 1379	6640 29550	0.134 3.40	125 862	4150 18470	0.109 2.77

‡ Denotes JIS pipe sizes.

# Maximum working pressure for 4" Style 475 used with Schedule 40S cut grooved pipe may be increased to 500 psi.

### GENERAL NOTES

- \* **Working Pressure** and **End Load** are total, from all internal and external loads, based on stainless steel pipe, roll grooved with Victaulic rolls in accordance with Victaulic specifications. "RX" rolls must be used for Schedules 5S, 10S and 10. Standard rolls should be used for Schedule 40S and Standard Weight pipe. Contact Victaulic for performance on other pipe or cut grooved pipe.

WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 ½ times the figures shown.

Metric thread size bolts are available for all coupling sizes upon request. Contact Victaulic for details.

WARNING: Depressurize and drain the piping system before attempting to install, remove, or adjust any Victaulic piping products.

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PATENT PENDING

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**WARRANTY**

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

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**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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