

# FireLock® Rigid Coupling






 \$ LPC and VdS Approved, see notes on page 4  
**SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS**

**STYLE 005**

**WITH VIC-PLUS™ GASKET SYSTEM (NORTH AMERICA ONLY)**

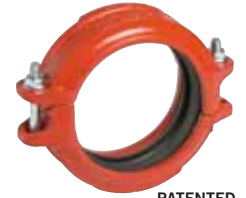
FireLock® Style 005 rigid coupling has a unique, patented angle-pad design which allows the housings to offset while clamping the grooves. By permitting the housings to slide on the angled bolt pads, rigidity is obtained.

Support and hanging requirements correspond to NFPA 13 Sprinkler Systems. Angle-pad design permits assembly by removing one nut/bolt and swinging the housing over the gasket. This reduces components to handle during assembly.

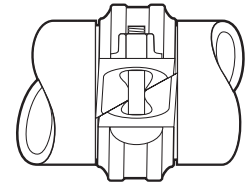
**Style 005 FireLock coupling are designed and recommended for use ONLY on fire protection systems.**

**Vic-Plus™ Gasket System:**

In North America, Victaulic® offers a gasket system which requires no field lubrication on wet pipe systems that are hydrostatically tested. The Vic-Plus™ System (patented) is dry, clean, and non-toxic. It reduces assembly time substantially and eliminates the mess and chance of over-lubrication. Please refer to the latest copy of the Victaulic Field Installation Handbook (I-100) for supplemental lubrication requirements and dry pipe fire protection system notes.



PATENTED



Exaggerated for clarity

**LISTING/APPROVALS**

The information provided below is based on the latest listing and approval data at the time of publication. Listings/Approvals are subject to change and/or additions by the approvals agencies. Contact Victaulic for performance on other pipe and the latest listings and approvals.

Related Working Pressure – psi					Related Working Pressure – psi					Related Working Pressure – psi				
Pipe Sch.	Size Inches	UL	ULC	FM	Pipe Sch.	Size Inches	UL	ULC	FM	Pipe Sch.	Size Inches	UL	ULC	FM
5	1 ¼ – 3	175	175	175	EL	1 ¼ – 2	300	N/A	N/A	MT	1 ¼ – 2	300	N/A	N/A
	1 ¼ – 4	350	350	350	ET	1 ¼ – 2	300	N/A	N/A	STF	1 ¼ – 4	N/A	N/A	300
10, 40	5 – 8	300	300	300	EZ	4 – 6	300#	N/A	300	Steady Thd.	1 ¼ – 2	N/A	N/A	300
	BLT	1 ¼ – 2	300	300	N/A	FF	1 ¼ – 4	N/A	N/A	300	TF	3 – 8	N/A	N/A
DF	1 ¼ – 4	300	300	300	GAL - 7	1 ¼ – 2	300	N/A	N/A	WLS	1 ¼ – 2	300	300	N/A
DT	1 ¼ – 2	300	300	N/A	MLT	1 ¼ – 2	300	N/A	N/A	XL	1 ¼ – 3	300	300	300
EF	1 ½ – 4	175@	N/A	175	MF	1 ¼ – 4	300	N/A	300*					

\* FM approved for service in 1 ½ – 4" pipe.  
 # UL Listed for service up to 4" pipe only.  
 @ UL Listed for service up to 3" only.

**JOB/OWNER**

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

**CONTRACTOR**

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

**ENGINEER**

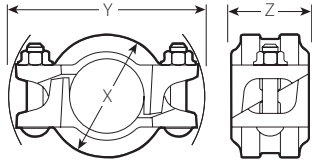
Spec Sect \_\_\_\_\_ Para \_\_\_\_\_  
 Approved \_\_\_\_\_  
 Date \_\_\_\_\_

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#### DIMENSIONS



Rated for wet and dry sprinkler systems at 350 psi/2413 kPa for 1 ¼ – 4 7/32 – 100 mm sizes and 300 psi /2068 kPa for 4 ¼ – 8 7/108 – 200mm sizes; Schedule 10 roll grooved or Schedule 40 cut or roll grooved steel pipe. Style 005 is rigid and does not accommodate expansion, contraction or angular deflection.

Size		Max. Work Pressure § *	Max. End Load *	Allow. Pipe End Sep. †	Bolt/Nut@ No – Size	Dimensions – Inches/mm			Approx. Wgt. Each
Nominal Size Inches/mm	Actual Outside Diameter Inches/mm	PSI kPa	Lbs. N	Inches mm	Inches mm	X	Y	Z	Lbs. kg
1 ¼ 32	1.660 42.4	350 2413	755 3370	0.05 1.2	2 – ¾ x 2 ¼	2.75 70	4.50 114	1.88 148	1.2 0.5
1 ½ 40	1.900 48.3	350 2413	990 4415	0.05 1.2	2 – ¾ x 2 ¼	3.00 76	4.75 121	1.88 148	1.2 0.5
2 50	2.375 60.3	350 2413	1550 6900	0.07 1.7	2 – ¾ x 2 ½	3.50 89	5.25 133	1.88 148	1.6 0.7
2 ½ 65	2.875 73.0	350 2413	2270 10110	0.07 1.7	2 – ¾ x 2 ½	4.00 102	5.75 146	1.88 148	1.9 .09
76.1 mm	3.000 76.1	350 2413	2475 11010	0.07 1.7	2 – ¾ x 2 ½	4.13 105	5.75 146	1.88 148	1.9 0.9
3 80	3.500 88.9	350 2413	3365 14985	0.07 1.7	2 – ¾ x 2 ½	4.63 118	6.13 156	1.88 148	2.1 1.0
4 100	4.500 114.3	350 2413	5565 24770	0.16 4.1	2 – ¾ x 2 ½	5.75 146	7.25 184	2.13 54	3.1 1.4
108.0mm	4.250 108.0	300 2068	4255 18940	0.16 4.1	2 – ¾ x 2 ½	5.63 143	7.25 184	2.13 54	3.1 1.4
5 125	5.563 141.3	300 2068	7290 32445	0.16 4.1	2 – ½ x 3	6.88 175	9.00 229	2.13 54	4.5 2.0
133.0mm	5.250 133.0	300 2068	6495 28900	0.16 4.1	2 – ½ x 2 ¾	6.63 168	9.00 229	2.13 54	4.5 2.0
139.7mm	5.500 139.7	300 2068	7125 31715	0.16 4.1	2 – ½ x 2 ¾	6.88 175	9.00 229	2.13 54	4.8 2.2
6 150	6.625 168.3	300 2068	10340 46020	0.16 4.1	2 – ½ x 3	8.00 203	10.00 254	2.13 53	5.0 2.3
159.0mm	6.250 159.0	300 2068	9200 40955	0.16 4.1	2 – ½ x 2 ¾	7.63 194	10.00 254	2.13 54	5.5 2.5
165.1 mm	6.500 165.1	300 2068	9955 44295	0.16 4.1	2 – ½ x 3	8.15 207	10.00 254	2.13 54	5.5 2.5
8 200	8.625 219.1	300 2068	17525 78000	0.19 4.8	2 – ¾ x 4 ¼	10.50 267	13.14 334	2.63 67	11.3 5.1

\* Working Pressure and End Load are total, from all internal and external loads, based on standard weight (ANSI) steel pipe, standard roll or cut grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.  
 WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 1/2 times the figures shown.

† The allowable pipe separation dimension shown is for system layout purposes only. Style 005 couplings are considered rigid connections and will not accommodate expansion or contraction of the piping system.

@ Number of bolts required equals number of housing segments. Metric thread size bolts are available (color coded gold) for all coupling sizes upon request. Contact Victaulic for details.

§ Style 005 couplings are VdS and LPC Approved to 12 Bar/175 psi.

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### MATERIAL SPECIFICATIONS

**Housing:** Ductile iron conforming to ASTM A-536, grade 65-45-12. Ductile iron conforming to ASTM A-395, grade 65-45-15, is available upon special request.

**Housing Coating:** Orange enamel (North America); red enamel (Europe)

- **Optional:** Hot dipped galvanized

#### Gasket:

- **Grade “E” EPDM – Type A Vic-Plus™ Gasket System Δ**  
(Violet color code). FireLock products have been Listed by Underwriters Laboratories Inc. and Approved by Factory Mutual Research for wet and dry (oil free air) sprinkler services up to the rated working pressure using the Grade “E” Type A Vic-Plus™ Gasket System, requiring no field lubrication for most installation conditions.
- Grade “L” Silicone  
Recommended for dry heat, air without hydrocarbons to +350°F and certain chemical services.

For dry services, Victaulic continues to recommend the use of Grade “E” Type A FlushSeal® Gasket. Contact Victaulic for details.

**Bolts/Nuts:** Heat-treated plated carbon steel, trackhead meeting the physical and chemical requirements of ASTM A-449 and physical requirements of ASTM A-183.

Δ Standard gasket and FlushSeal gasket approved for dry pipe systems to –40°F/–40°C. Based on “typical” pipe surface conditions, supplemental lubricant is recommended for services installed below 0°F/–18°C and for all dry pipe systems or systems to be subjected to air tests prior to being filled with water. Supplemental lubrication may also be required on pipe with raised or undercut weld seams or pipe that has voids and/or cracks at the weld seams. Victaulic continues to recommend the use of FlushSeal gaskets for dry services.

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**GENERAL NOTES**

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

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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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**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](http://www.victaulic.com).



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For complete contact information, visit [www.victaulic.com](http://www.victaulic.com)

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