FireLock[®] Rigid Coupling Style 005H with Vic-Plus[™] Gasket System





Product Description:

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

Vic-Plus[™] Gasket System:

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.

Job/Owner

System No.	
Location	
Contractor	
Submitted By	
Date	

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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: (specify choice)

Standard: Orange enamel (North America); red enamel (Europe)

Optional: Hot dipped galvanized

Coupling Gasket: (specify choice)

NOTE: Additional gasket styles are available. Contact Victaulic for details.

Grade "E" EPDM Type A Vic-Plus[™] Gasket System¹

EPDM (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 $+350^{\circ}$ 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.

¹ 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.

Engineer

Spec Section	
Paragraph	
Approved	
Date	

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Dimensions:



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

Nominal	Actual Outside	Maximum Working	Maximum End	Allow. Pipe End			Approx. Weight			
Size	Diameter	Pressure ¹⁴	Load ¹	Separation ²	Bolt/Nut ³	X	Y	Z		
inches	inches	psi	lbs.	inches	No. – size	inches	inches	inches	lbs.	
mm	mm	kPa	N	mm	inches	mm	mm	mm	kg	
1 ¼	1.660	350	755	0.05	2 - 3/8 × 2 1/4	2.75	4.50	1.88	1.2	
32	42.4	2413	3370	1.2		70	114	48	0.5	
1 ½	1.900	350	990	0.05	2 – 3/8 × 2 1/4	3.00	4.75	1.88	1.2	
40	48.3	2413	4415	1.2		76	121	48	0.5	
2	2.375	350	1550	0.07	2 - 3/8 × 2 1/2	3.50	5.25	1.88	1.6	
50	60.3	2413	6900	1.7		89	133	48	0.7	
2½	2.875	350	2270	0.07	2 – 3/8 × 2 1/2	4.00	5.75	1.88	1.9	
65	73.0	2413	10110	1.7		102	146	48	.09	
76.1 mm	3.000 76.1	350 2413	2475 11010	0.07 1.7	2 – 3/8 × 2 1/2	4.13 105	5.75 146	1.88 48	1.9 0.9	
3	3.500	350	3365	0.07	2 – 3/8 × 2 1/2	4.63	6.13	1.88	2.1	
80	88.9	2413	14985	1.7		118	156	48	1.0	
4	4.500	350	5565	0.16	$2 - \frac{3}{8} \times 2\frac{1}{2}$	5.75	7.25	2.13	3.1	
100	114.3	2413	24770	4.1		146	184	54	1.4	
108.0 mm	4.250 108.0	300 2068	4255 18940	0.16 4.1	2-3%×21/2	5.63 143	7.25 184	2.13 54	3.1 1.4	
5	5.563	300	7290	0.16	$2 - \frac{1}{2} \times 3$	6.88	9.00	2.13	4.5	
125	141.3	2068	32445	4.1		175	229	54	2.0	
133.0 mm	5.250 133.0	300 2068	6495 28900	0.16 4.1	$2 - \frac{1}{2} \times 2\frac{3}{4}$	6.63 168	9.00 229	2.13 54	4.5 2.0	
139.7 mm	5.500 139.7	300 2068	7125 31715	0.16 4.1	$2 - \frac{1}{2} \times 2\frac{3}{4}$	6.88 175	9.00 229	2.13 54	4.8 2.2	
6	6.625	300	10340	0.16	$2 - \frac{1}{2} \times 3$	8.00	10.00	2.13	5.0	
150	168.3	2068	46020	4.1		203	254	53	2.3	
159.0 mm	6.250 159.0	300 2068	9200 40955	0.16 4.1	$2 - \frac{1}{2} \times 2\frac{3}{4}$	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	$2 - \frac{1}{2} \times 3$	8.15 207	10.00 254	2.13 54	5.5 2.5	
8	8.625	300	17525	0.19	$2 - \frac{5}{8} \times 4\frac{1}{4}$	10.50	13.14	2.63	11.3	
200	219.1	2068	78000	4.8		267	334	67	5.1	

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 1½ times the figures shown.

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

3 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.

4 Style 005H couplings are VdS and LPC Approved to 16 Bar/235 psi.



Listings/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	1¼ - 3	175	175	175	EL	1¼ - 2	300	N/A	N/A	MT	1¼ - 2	300	N/A	N/A
	1¼ - 3	350	350	350	ET	1¼ - 2	300	N/A	N/A	STF	1¼ - 4	N/A	N/A	300
10, 40	5 - 8	300	300	300	EZ	4 - 6	300 ⁶	N/A	300	Steady Thd.	1¼ - 2	N/A	N/A	300
BLT	1¼ - 2	300	300	N/A	FF	1¼ - 4	N/A	N/A	300	TF	3 - 8	N/A	N/A	300
DF	1¼ - 4	300	300	300	GAL-7	1¼ - 2	300	N/A	N/A	WLS	1¼ - 2	300	300	N/A
DT	1¼ - 2	300	300	N/A	MLT	1¼ - 2	300	N/A	N/A	XL	1¼ - 3	300	300	300
EF	1¼-4	175 ⁷	N/A	175	MF	1¼ - 4	300	N/A	300⁵					

5 FM approved for service in 1 1/2 - 4" pipe.

6 UL Listed for service up to 4" pipe only.

7 UL Listed for service up to 3" only.

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.

