



HYDROFIRE ΕΠΕ

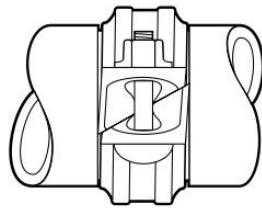
Buildings - Industry - Marine – Waterworks
END OF AG. PANTELEIMONOS Str. (ELEONAS)
GR-12241 EGALEO,
Tel.: +30 210 3412 749-750 Fax: +30 210 3412 406
www.hydrofire.gr, email: info@hydrofire.gr



Victaulic® FireLock™ Rigid Coupling Style 005H



Patented



Exaggerated for clarity

1.0 PRODUCT DESCRIPTION

Available Sizes

- 1 ¼ – 8"/DN32 – DN200

Maximum Working Pressure

- Up to 350 psi/2413 kPa

Function

- Joins carbon steel pipe with grooved ends conforming to [publication 25.01](#)
- This product is designed for fire protection systems only

Pipe Material

- Schedule 10, Schedule 40 or specialty carbon steel pipe listed in Section 5. For use with alternative materials and wall thicknesses please contact Victaulic
- For exceptions reference section 6.0 Notifications

2.0 CERTIFICATION/LISTINGS



104-1a/02

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

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3.0 SPECIFICATIONS – MATERIAL

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)

- Orange coating.
- Red coating (standard for EMEA-I and Asia Pacific).
- Optional: Hot dipped galvanized.

Coupling Gasket (specify choice):

- 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°F and certain chemical service.
For dry services, Victaulic continues to recommend the use of Grade “E” Type A FlushSeal® Gasket. Contact Victaulic for details.

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.

NOTE

- Additional gasket styles are available. Contact Victaulic for details.

Bolts/Nuts: Carbon steel oval neck track bolt(s) meeting the mechanical property requirements of ASTM A449 (imperial) and ISO 898-1 Class 9.8 (M10-M16) Class 8.8 (M20 and greater). Carbon steel hex nuts meeting the mechanical property requirements of ASTM A563 Grade B (imperial) and ASTM A563M Class 9 (metric). Track bolts and hex nuts are zinc electroplated per ASTM B633 Fe/Zn 5, finish Type III (imperial) or Type II (metric).



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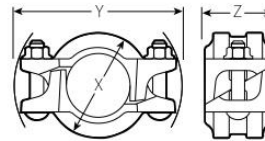


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4.0 DIMENSIONS

Style 005H

Rated for wet and dry sprinkler systems at 350 psi/2413 kPa for 1 ¼ – 4”/32 – 100 mm sizes and 300 psi /2068 kPa for 4 ¼ – 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.



Style 005H

Size		Maximum Working Pressure ^{1 4}	Maximum End Load ¹	Allow. Pipe End Separation ²	Bolt/Nut ³	Dimensions			Approx. Weight Each
Nominal inches mm	Actual Outside Diameter inches mm					X inches mm	Y inches mm	Z inches mm	
1 ¼	1.660	350	755	0.05	2 – ¾ × 2 ¼	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 – ¾ × 2 ¼	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 – ¾ × 2 ½	3.50	5.25	1.88	1.6
50	60.3	2413	6900	1.7		89	133	48	0.7
2 ½	2.875	350	2270	0.07	2 – ¾ × 2 ½	4.00	5.75	1.88	1.9
65	73.0	2413	10110	1.7		102	146	48	.09
76.1 mm	3.000	350	2475	0.07	2 – ¾ × 2 ½	4.13	5.75	1.88	1.9
	76.1	2413	11010	1.7		105	146	48	0.9
3	3.500	350	3365	0.07	2 – ¾ × 2 ½	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 – ¾ × 2 ½	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	300	4255	0.16	2 – ¾ × 2 ½	5.63	7.25	2.13	3.1
	108.0	2068	18940	4.1		143	184	54	1.4
5	5.563	300	7290	0.16	2 – ½ × 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	300	6495	0.16	2 – ½ × 2 ¾	6.63	9.00	2.13	4.5
	133.0	2068	28900	4.1		168	229	54	2.0
139.7 mm	5.500	300	7125	0.16	2 – ½ × 2 ¾	6.88	9.00	2.13	4.8
	139.7	2068	31715	4.1		175	229	54	2.2
6	6.625	300	10340	0.16	2 – ½ × 3	8.00	10.00	2.13	5.0
150	168.3	2068	46020	4.1		203	254	54	2.3
159.0 mm	6.250	300	9200	0.16	2 – ½ × 2 ¾	7.63	10.00	2.13	5.5
	159.0	2068	40955	4.1		194	254	54	2.5
165.1 mm	6.500	300	9955	0.16	2 – ½ × 3	8.15	10.00	2.13	5.5
	165.1	2068	44295	4.1		207	254	54	2.5
8	8.625	300	17525	0.19	2 – ¾ × 4 ¼	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.



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5.0 PERFORMANCE

Style 005H

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					Related Working Pressure					Related Working Pressure				
psi					psi					psi				
Pipe Sch.	Size	UL	ULC	FM	Pipe Sch.	Size	UL	ULC	FM	Pipe Sch.	Size	UL	ULC	FM
	inches					inches					inches			
5	1¼ – 3	175	175	175	EL	1¼ – 2	300	N/A	N/A	MT	1¼ – 2	300	N/A	N/A
10, 40	1¼ – 3	350	350	350	ET	1¼ – 2	300	N/A	N/A	STF	1¼ – 4	N/A	N/A	300
	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	300 ⁵					

⁵ FM approved for service in 1½ – 4" pipe.

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

⁷ UL Listed for service up to 3" only.