Victaulic FireLock[™] Innovative Groove System I IGS[™] for 1"/DN25 Sprinkler Pipe







No. 142 Welded Outlet



Style 922 Outlet-T



Style 920N Mechanical-T Outlet



No. 101 Installation-Ready™ 90° Elbow



Style 108 Installation-Ready™ Rigid Coupling



No. 102 Installation-Ready[™] Tee



Style 115 OGS x IGS™ Reducing Coupling



No. 148 Sprinkler Reducer, NPT or BSPT sprinkler outlet



No. 65 Grooved End of Run Fitting



No. 144 OGS x IGS™ Grooved Concentric Reducer



No. 145 Female NPT or BSPT Threaded x Groove 90° Elbow



No. 143 Close Nipple



No. 140 Male NPT or BSPT Threaded x Groove Adapter



No. 141 Female NPT or BSPT Threaded x Groove Adapter



No. 146 Cap



RG2100 Roll Grooving Tool



VicFlex™ Series AH2-CC Braided Flexible Hose with Captured Coupling (Refer to publication 10.85)



VicFlex™ Series AH1-CC Braided Flexible Hose with Captured Coupling (Refer to publication 10.95)

1.0 PRODUCT DESCRIPTION

Pipe Material

• Carbon steel, Schedule 10, Schedule 40. For use with alternative materials please contact Victaulic.

Maximum Working Pressure

• Up to 365 psi/2517 kPa/25 bar

Pipe Preparation

• Cut (Sch. 40) or roll (Sch. 10 or Sch. 40) grooved in accordance with <u>publication 25.14</u>: Victaulic /GS Groove Specifications.

RG2100 Grooving Capability

- 1"/DN25
- Workstation designed to cut, ream and form a roll groove on carbon steel, Sch. 10 or Sch. 40 pipe.
- This tool has a minimum pipe length requirement of 4 ½"/114 mm.

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

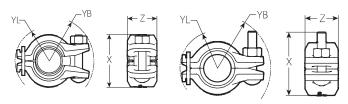
System No.	Location		Spec Section	Paragraph	
Submitted By	Date		Approved	Date	

2.0	CERTIFICATION/LISTINGS
c (U) US INTED LPCB VdS
NOTE •	Approvals listed above do not apply to the RG2100 Roll Grooving Tool.
3.0	SPECIFICATIONS – MATERIAL
Ηοι	using: Ductile iron conforming to ASTM A536, Grade 65-45-12
Ηοι	ising Coating:
	Orange enamel
	Red enamel (Europe)
	Optional: Hot dipped galvanized
Gas	ket:
	Grade "E" EPDM (Type A) Vic-Plus™ Pre-lubricated Gasket EPDM (Violet Color Code). Applicable for wet and dry (oil-free air) fire protection systems only. Listed/Approved for continuous use in wet and dry systems. Listed/Approved for dry systems at -40°F/-40°C and above. NOT COMPATIBLE FOR USE WITH HOT WATER SERVICES OR STEAM SERVICES.
NOTE	ES:
	Reference should always be made to <u>publication I-100</u> , Victaulic Field Installation Handbook for gasket lubrication instructions. 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 <u>publication 05.01</u> , Victaulic Gasket Selection Guide for specific gasket service guidelines and for a listing of services which are not compatible.
Bolt	ts/Nuts:
	Carbon steel oval neck track bolts 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 - heavy hex nuts) and ASTM A563M Class 9 (metric - hex nuts). Track bolts and hex nuts are zinc electroplated per ASTM B633 Fe/Zn 5, finish Type III (imperial) or Type II (metric).
Cou	pling Linkage: High Strength Steel with comparable physical properties to that of the Track Bolt (ASTM A449). Linkage is zinc electroplated per ASTM B633 Fe/Zn 5, Type III Finish
No.	140, 141, 142, 143, 144, 148: Carbon steel meeting the chemical and mechanical property requirements of ASTM A53 Grade A
No.	65, 145, 146: Ductile iron conforming to ASTM A536, Grade 65-45-12
RG	2100 Roll Grooving Tool:
	Required Power Supply: Power Drive with Foot Switch (½ HP, Universal reversible motor, single-phase, 25-60 HZ)
	Accessories/Components:
	☐ Tool head assembly
	☐ Carriage assembly - accepts RG2100 tool head assembly, Standard Cutter, Standard Reamer and Standard Lever

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4.4 DIMENSIONS

Style 108 Installation-Ready Rigid Coupling



Preassembled

Assembled

Size		Pipe End Separation ¹ Bolt/Nut		Dimensions							Weight		
	Actual				Pre-Assembled				Assembled				
Nominal	Outside Diameter	Allowable	Qty.	Size	YL	YB	Х	Z	YL	YB	Х	Z	Approx (Each)
inches	inches	inches		inches	inches	inches	inches	inches	inches	inches	inches	inches	lb
DN	mm	mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
1	1.315	0.14	1	³ /8 x 2	1.66	2.17	2.58	1.43	1.61	2.29	2.27	1.43	1.5
DN25	33.7	3.6	•	M10 x 50	42.2	55.2	65.5	36.3	41.0	58.2	57.5	36.3	0.7

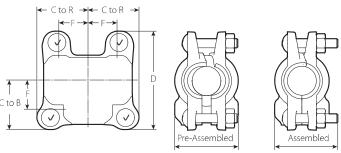
The allowable pipe end separation dimension shown is for system layout purposes only. FireLockTM Style 108 rigid couplings are considered rigid connections and will not accommodate expansion or contraction of the piping system.

NOTE

• Not for use with grooved sprinklers, for grooved sprinkler connections please refer to publication 10.65 for the Style V9 sprinkler coupling.

4.5 DIMENSIONS

No. 102 Installation-Ready Tee



Size		Bolt/Nut			Weight				
Nominal	Actual Outside Diameter	Qty.	Size	F Take Out	C to B	D	Pre-Assembled	Assembled	Approximate (Each)
inches	inches		inches	inches	inches	inches	inches	inches	lb
DN	mm		mm	mm	mm	mm	mm	mm	kg
1	1.315	4	3/8 x 2	1.25	2.13	4.13	2.75	2.75	3.0
DN25	33.7	4	M10 x 50	32	54	105	70	70	1.4

NOTE

• Not for use with grooved sprinklers, for grooved sprinkler connections please refer to publication 10.65 for the Style V9 sprinkler coupling.

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5.0 PERFORMANCE (CONTINUED)

Maximum Working Pressure

	cULus	FM	LPCB	VdS
	psi	psi	psi	psi
	kРа	kPa	kРа	kPa
Style/No.	bar	bar	bar	bar
1424	365	365	365	232
	2517	2517	2517	1600
	25	25	25	16
9224	300	300	365	232
	2100	2100	2517	1600
	21	21	25	16
920N ⁴	365	300	365	232
32011	2517	2100	2517	1600
	25	21	25	16
1015	365	365	365	232
101	2517	2517	2517	1600
	25	25	25	16
1085	365	365	365	232
108	2517	2517	2517	1600
	25	25	25	16
1025	365	365	365	232
1025	2517	2517	2517	1600
	25	25	25	
1154	25	25	365	16
115*	365	365	365	232
	2517	2517	2517	1600
1.10	25	25	25	16
148	365	365	365	232
	2517	2517	2517	1600
	25	25	25	16
65	365	365	365	232
	2517	2517	2517	1600
	25	25	25	16
144	365	365	365	232
	2517	2517	2517	1600
	25	25	25	16
145	365	365	365	232
	2517	2517	2517	1600
	25	25	25	16
143	365	365	365	232
	2517	2517	2517	1600
	25	25	25	16
140	365	365	365	232
	2517	2517	2517	1600
	25	25	25	16
141	365	365	365	232
	2517	2517	2517	1600
	25	25	25	16
146	365	365	365	232
	2517	2517	2517	1600
	25	25	25	16

⁴ Maximum pressure rating is 300 psi/21 bar when installed on lightwall steel pipe, as follows:

 $^{{\}it Mega-Flow and Mega-Flow-GF steel pipe manufactured by Wheatland\ Tube\ Co.}$

Mega-Thread steel pipe manufactured by Wheatland Tube Co.

MLT steel pipe manufactured by Wheatland Tube Co.

WLS steel pipe manufactured by Wheatland Tube Co.

Eddy Flow steel pipe manufactured by Bull Moose Tube Co.

Eddythread steel pipe manufactured by Bull Moose Tube Co.

EZ-Thread steel pipe manufactured by Youngstown Tube Co.

Fire-Flo steel pipe manufactured by Youngstown Tube Co.

Easy-Flow pipe manufactured by Borusan Mannesmann

Maximum pressure rating is 300 psi / 21 bar when installed on lightwall steel pipe, as follows:

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MLT steel pipe manufactured by Wheatland Tube Co

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Eddythread steel pipe manufactured by Bull Moose Tube Co.

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