



HYDROFIRE ΕΠΕ

Buildings - Industry - Marine – Waterworks
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Victaulic® FireLock™ Installation-Ready™ Rigid Couplings Style 009N and Style 109



Patented



Patented

1.0 PRODUCT DESCRIPTION

Available Sizes

- Style 009N: 1 ¼ – 12"/DN32 – DN300
- Style 109: 1 ¼ – 4"/DN32 – DN100

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

Maximum Working Pressure

- Accommodates pressures ranging from full vacuum (29.9 in Hg/760 mm Hg) to 365 psi/2517 kPa

Function

- Joins carbon steel pipe with grooved ends conforming to [publication 25.01](#)
- Provides a rigid pipe joint designed to restrict axial or angular movement

2.0 CERTIFICATION/LISTINGS



LPS 1219: Issue 3.1
Cert/LPCB Ref. 104-1a/36



EN 10311
Regulation (EU)
No. 305/2011

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 for Style 009N: Hot Dipped Galvanized per ASTM A123
- Optional for Style 109: Mechanically Galvanized per ASTM B695 (available only in North America and Latin America).

Gasket: (specify choice)

- 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.

NOTES

- Reference should always be made to [publication I-100](#), 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 [publication 05.01](#), Victaulic Gasket Selection Guide for specific gasket service guidelines and for a listing of services which are not compatible.

Bolts/Nuts: (specify choice)

- Standard: 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).
- Optional for Style 009N: Stainless steel oval neck track bolts meeting the requirements of ASTM F593, Group 2 (316 stainless steel), condition CW. Stainless steel Heavy Hex nuts meeting the requirements of ASTM F594, Group 2 (316 stainless steel), condition CW, with galling-resistant coating.¹

¹ Optional bolts/nuts are available in imperial size only.

Coupling 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.



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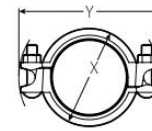
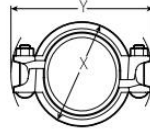
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4.0 DIMENSIONS

Style 009N Two-Bolt Installation-Ready Coupling



Style 009N Pre-Assembled

Style 009N Joint Assembled

Size		Maximum Working Pressure ² psi kPa	Maximum End Load ² lb N	Allow. Pipe End Separation ³ inches mm	Qty.	Bolt/Nut Size inches mm	Dimensions					Weight Approx. (Each) lb kg
Nominal inches DN	Actual Outside Diameter inches mm						Pre-assembled		Joint Assembled		Z inches mm	
							X inches mm	Y inches mm	X inches mm	Y inches mm		
1 ¼ DN32	1.660 42.4	365 2517	790 3514	0.10 2.54	2	⅜ × 2 M10 × 51	3.13 79	5.00 127	2.75 70	5.00 127	2.00 51	1.4 0.6
1 ½ DN40	1.900 48.3	365 2517	1035 4604	0.10 2.54	2	⅜ × 2 M10 × 51	3.38 86	5.13 130	3.00 76	5.13 130	2.00 51	1.5 0.7
2 DN50	2.375 60.3	365 2517	1617 7193	0.12 3.05	2	⅜ × 2 ½ M10 × 63	4.00 102	5.63 143	3.50 89	5.63 143	2.00 51	1.9 0.9
2 ½	2.875 73.0	365 2517	2370 10542	0.12 3.05	2	⅜ × 2 ½ M10 × 63	4.50 114	6.13 156	4.00 102	6.13 156	2.00 51	2.1 1.0
DN65	3.000 76.1	365 2517	2580 11476	0.12 3.05	2	⅜ × 2 ½ M10 × 63	4.63 118	6.00 152	4.13 105	6.13 156	2.00 51	2.1 1.0
3 DN80	3.500 88.9	365 2517	3512 15622	0.12 3.05	2	⅜ × 2 ½ M10 × 63	5.13 130	6.75 171	4.63 117	6.75 171	2.00 51	2.3 1.0
4 DN100	4.500 114.3	365 2517	5805 25822	0.17 4.32	2	⅜ × 2 ½ M10 × 63	6.00 152	7.88 200	5.63 143	7.50 191	2.13 54	2.9 1.3
	4.250 108.0	365 2517	5178 23020	0.17 4.32	2	⅜ × 2 ½ M10 × 63	5.63 152	7.38 187	5.38 137	7.38 187	2.13 54	3.1 1.4
5	5.563 141.3	365 2517	8872 39456	0.17 4.32	2	½ × 3 M12 × 76	7.25 184	9.25 235	6.75 171	9.13 232	2.25 57	5.0 2.3
	5.250 133.0	365 2517	7901 35106	0.17 4.32	2	½ × 3 M12 × 76	6.63 168	9.00 229	6.38 162	9.00 229	2.25 57	4.8 2.2
DN125	5.500 139.7	365 2517	8672 38529	0.17 4.32	2	½ × 3 M12 × 76	6.88 175	9.25 235	6.75 171	9.13 232	2.25 57	4.9 2.2
6 DN150	6.625 168.3	365 2517	12582 44469	0.17 4.32	2	½ × 3 ¼ M12 × 83	8.38 213	10.38 264	7.88 200	10.13 257	2.25 57	6.0 2.7
	6.250 159.0	365 2517	11198 49753	0.17 4.32	2	½ × 3 ¼ M12 × 83	7.88 200	10.00 254	7.38 187	9.88 251	2.25 57	5.6 2.5
	6.500 165.1	365 2517	12112 53813	0.17 4.32	2	½ × 3 ¼ M12 × 83	8.00 203	10.25 260	7.75 197	10.13 257	2.25 57	6.0 2.7
8 DN200	8.625 219.1	365 2517	21326 94863	0.17 4.32	2	⅝ × 4 M16 × 101	10.88 276	13.38 340	10.25 260	13.13 333	2.50 64	11.4 5.2
	8.500 216.0	365 2517	20712 55968	0.17 4.32	2	⅝ × 4 M16 × 101	10.63 270	13.25 337	10.25 260	10.13 257	2.63 67	11.4 5.2
10 DN250	10.750 273.0	300 2068	27229 121121	0.25 6.4	2	⅞ × 6 ½ M22 × 165	13.75 349	17.00 432	13.25 337	17.13 435	2.75 70	22.6 10.3
12 DN300	12.750 323.9	300 2068	38303 170380	0.25 6.4	2	⅞ × 6 ½ M22 × 165	16.00 406	19.00 483	15.50 394	19.13 486	2.75 70	27.6 12.5

² 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. See the Listings/Approvals section of this publication for ratings on other pipe.

³ The allowable pipe separation dimension shown is for system layout purposes only. Style 009N couplings are considered rigid connections and will not accommodate expansion or contraction of the piping system.

NOTES

- When assembling Style 009N or Style 109 couplings onto end caps, take additional care to make certain the end cap is fully seated against the gasket end stop. For Style 009N or Style 109 couplings, use FireLock No. 006 end caps containing the "EZ" marking on the inside face or No. 60 end caps containing the "QV EZ" marking on the inside face. Non-Victaulic end cap products shall not be used with Style 009N or Style 109 couplings. IMPORTANT: Gaskets intended for the Style 009 or Style 009V couplings cannot be used with the Style 009N or Style 109 coupling. There is no interchanging of gaskets or housings between coupling styles.
- Use Of FlushSeal Gaskets For Dry Pipe Systems** Style 009N or Style 109 couplings are supplied with Grade "E" Type A gaskets. These gaskets include an integral pipe stop, that once installed provides the similar benefits as a FlushSeal gasket for dry pipe systems. It should be noted that standard Victaulic FlushSeal gaskets cannot be used with the Style 009N or Style 109 couplings.
- The Allowable Pipe End Separation dimension shown is for system layout purposes only. Style 009N or Style 109 Installation-Ready rigid couplings are considered rigid connections and will not accommodate expansion/contraction or angular movement of the piping system. Contact Victaulic for torsional resistance information.



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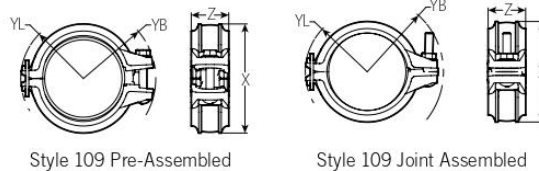
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4.1 DIMENSIONS

Style 109 One-Bolt Installation-Ready Coupling



Size		Max. Working Pressure	Max. End Load	Allow. Pipe End Sep. Maximum	Qty.	Bolt/Nut Size	Dimensions								Weight		
Nominal	Actual Outside Diameter						Pre-Assembled				Assembled					Approx. (Each)	
							YL	YB	X	Z	YL	YB	X	Z			
inches	inches	psi	Lbs.	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	lb
DN	mm	kPa	N	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
1 ¼	1.660	365	790	0.10	1	¾ x 2 ¼ M10 x 57	1.97	2.49	3.17	1.95	1.93	2.59	2.84	1.95	1.5		
DN32	42.4	2517	3514	2.54			50	63	81	50	49	66	72	50	0.7		
1 ½	1.900	365	1035	0.10	1	¾ x 2 ¼ M10 x 57	2.13	2.60	3.41	1.95	2.1	2.68	3.07	1.95	1.6		
DN40	48.3	2517	4603	2.54			54	66	87	50	53	68	78	50	0.7		
2	2.375	365	1617	0.12	1	¾ x 2 ¼ M10 x 57	2.32	2.85	3.76	1.98	2.29	2.95	3.45	1.98	1.9		
DN50	60.3	2517	7192	3.048			59	72	96	50	58	75	88	50	0.9		
2 ½	2.875	365	2370	0.12	1	¾ x 2 ¼ M10 x 57	2.63	3.09	4.29	1.99	2.61	3.15	3.93	1.99	2.1		
	73.0	2517	10540	3.048			67	78	109	51	66	80	100	51	1.0		
DN65	3.000	365	2580	0.12	1	7/16 x 2 ¾ M11 x 69	2.68	3.22	4.56	2.03	2.64	3.45	4.22	2.03	2.4		
	76.1	2517	11476	3.048			68	82	116	52	67	88	107	52	1.1		
3	3.500	365	3512	0.12	1	7/16 x 2 ¾ M11 x 69	2.93	3.53	5.13	2.07	2.89	3.78	4.67	2.07	2.7		
	DN80	88.9	2517	15620			3.048	74	90	130	53	73	96	119	53	1.2	
4	4.500	300	4771	0.17	1	7/16 x 2 ¾ M11 x 69	3.47	4.01	6.03	2.08	3.43	4.22	5.56	2.08	3.5		
	DN100	114.3	2068	21223			4.318	88	102	153	53	87	107	141	53	1.6	

⁴ 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. See the Listings/Approvals section of this publication for ratings on other pipe.

⁵ The allowable pipe separation dimension shown is for system layout purposes only. Style 109 couplings are considered rigid connections and will not accommodate expansion or contraction of the piping system.

NOTES

- When assembling Style 009N or Style 109 couplings onto end caps, take additional care to make certain the end cap is fully seated against the gasket end stop. For Style 009N or Style 109 couplings, use FireLock No. 006 end caps containing the "EZ" marking on the inside face or No. 60 end caps containing the "QV EZ" marking on the inside face. Non-Victaulic end cap products shall not be used with Style 009N or Style 109 couplings. IMPORTANT: Gaskets intended for the Style 009 or Style 009V couplings cannot be used with the Style 009N or Style 109 coupling. There is no interchanging of gaskets or housings between coupling styles.
- Use Of FlushSeal Gaskets For Dry Pipe Systems** Style 009N or Style 109 couplings are supplied with Grade "E" Type A gaskets. These gaskets include an integral pipe stop, that once installed provides the similar benefits as a FlushSeal gasket for dry pipe systems. It should be noted that standard Victaulic FlushSeal gaskets cannot be used with the Style 009N or Style 109 couplings.
- The Allowable Pipe End Separation dimension shown is for system layout purposes only. Style 009N or Style 109 Installation-Ready rigid couplings are considered rigid connections and will not accommodate expansion/contraction or angular movement of the piping system. Contact Victaulic for torsional resistance information.



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5.0 PERFORMANCE

Style 009N Two-Bolt Installation-Ready Coupling Listings/Approvals⁶

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 approval agencies. Contact Victaulic for performance on other pipe and the latest listings and approvals.

Size		cULus		FM		VdS	LPCB
Nominal	Actual Outside Diameter	Sch. 10	Sch. 40	Sch. 10	Sch. 40		
inches	inches	psi	psi	psi	psi	psi	psi
DN	mm	kPa	kPa	kPa	kPa	kPa	kPa
		bar	bar	bar	bar	bar	bar
1 ¼ DN32	1.660 42.4	365	365	363	363	363	363
		2517	2517	2503	2503	2500	2500
		25	25	25	25	25	25
1 ½ DN40	1.900 48.3	365	365	363	363	363	363
		2517	2517	2503	2503	2500	2500
		25	25	25	25	25	25
2 DN50	2.375 60.3	365	365	363	363	363	363
		2517	2517	2503	2503	2500	2500
		25	25	25	25	25	25
2 ½	2.875 73.0	365	365	363	363	-	363
		2517	2517	2503	2503	-	2500
		25	25	25	25	-	25
DN65	3.000 76.1	365 ⁷	-	363 ⁸	-	363	363
		2517 ⁷	-	2503 ⁸	-	2500	2500
		25 ⁷	-	25 ⁸	-	25	25
3 DN80	3.500 88.9	365	365	363	363	363	363
		2517	2517	2503	2503	2500	2500
		25	25	25	25	25	25
4 DN100	4.250 108.0	-	-	363	363	-	-
		-	-	2503	2503	-	-
		-	-	25	25	-	-
4 DN100	4.500 114.3	365	365	363	363	363	363
		2517	2517	2503	2503	2500	2500
		25	25	25	25	25	25
5 DN125	5.250 133.0	-	-	363 ⁸	-	-	-
		-	-	2503 ⁸	-	-	-
		-	-	25 ⁸	-	-	-
5 DN125	5.500 139.7	290 ⁹	-	363 ⁸	-	232	363
		2000 ⁹	-	2503 ⁸	-	1600	2500
		20 ⁹	-	25 ⁸	-	16	25
5	5.563 141.3	290	365	363	363	232	363
		2000	2517	2503	2503	1600	2500
		20	25	25	25	16	25
5	6.250 159	-	-	363 ⁸	-	-	-
		-	-	2503 ⁸	-	-	-
		-	-	25 ⁸	-	-	-
5	6.500 165.1	290 ¹⁰	-	363 ⁸	-	-	363
		2000 ¹⁰	-	2503 ⁸	-	-	2500
		20 ¹⁰	-	25 ⁸	-	-	25

⁶ Listed/Approved for continuous use in wet and dry systems. Listed/Approved for dry systems -40° F/C and above. Please see the [Victaulic Installation Manual I-009N](#) for details concerning when supplemental lubrication is required.

⁷ cULus listed for DIN 2458 (EN 10220) 2.6 mm pipe wall.

⁸ FM approved for BS 1387 (EN 10255) Medium 3.6 mm pipe wall.

⁹ cULus listed for EN 10220 4.0 mm pipe wall.

¹⁰ cULus listed for EN 10255 4.5 mm pipe wall.

¹¹ With optional stainless steel fasteners, cULus Listed to 175psi/1207 kPa/12 bar and FM Approved to the FM ratings shown in the above table. The stainless steel fasteners have a marking designation of "316" on the end face of the bolt.

¹² FM approved for 0.188" pipe wall.

¹³ cULus listed for 0.188" pipe wall.



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5.0 PERFORMANCE (CONTINUED)

Style 009N Two-Bolt Installation-Ready Coupling Listings/Approvals⁶

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Size		cULus		FM		VdS	LPCB
Nominal	Actual Outside Diameter	Sch. 10	Sch. 40	Sch. 10	Sch. 40		
inches	inches	psi	psi	psi	psi	psi	psi
DN	mm	kPa	kPa	kPa	kPa	kPa	kPa
		bar	bar	bar	bar	bar	bar
6 DN150	6.625 168.3	300	365	300	363	232	363
		2068	2517	2068	2503	1600	2500
		20	25	20	25	16	25
8 DN200	8.625 219.1	290	–	363 ⁸	–	–	–
		2000	–	2503 ⁸	–	–	–
		20	–	25 ⁸	–	–	–
10 DN250	10.750 273.0	300	365	300 ¹²	363	232	363
		2068	2517	2068 ¹²	2503	1600	2500
		20	25	20 ¹²	25	16	25
12 DN300	12.750 323.9	300 ¹³	300	300 ¹²	300	–	–
		2068 ¹³	2068	2068 ¹²	2068	–	–
		20 ¹³	20	20 ¹²	20	–	–
12 DN300	12.750 323.9	300 ¹³	300	250 ¹²	300	–	–
		2068 ¹³	2068	1720 ¹²	2068	–	–
		20 ¹³	20	17 ¹²	20	–	–

- ⁶ Listed/Approved for continuous use in wet and dry systems. Listed/Approved for dry systems -40° F/C and above. Please see the [Victaulic Installation Manual I-009N](#) for details concerning when supplemental lubrication is required.
- ⁷ cULus listed for DIN 2458 (EN 10220) 2.6 mm pipe wall.
- ⁸ FM approved for BS 1387 (EN 10255) Medium 3.6 mm pipe wall.
- ⁹ cULus listed for EN 10220 4.0 mm pipe wall.
- ¹⁰ cULus listed for EN 10255 4.5 mm pipe wall.
- ¹¹ With optional stainless steel fasteners, cULus Listed to 175psi/1207 kPa/12 bar and FM Approved to the FM ratings shown in the above table. The stainless steel fasteners have a marking designation of "316" on the end face of the bolt.
- ¹² FM approved for 0.188" pipe wall.
- ¹³ cULus listed for 0.188" pipe wall.



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5.1 PERFORMANCE

Style 109 One-Bolt *Installation-Ready* Coupling Listings/Approvals¹⁵

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Size		cULus		FM		VdS	LPCB
Nominal inches DN	Actual Outside Diameter inches mm	Sch. 10 psi kPa bar	Sch. 40 psi kPa bar	Sch. 10 psi kPa bar	Sch. 40 psi kPa bar	psi kPa bar	psi kPa bar
1 ¼ DN32	1.660 42.4	365	365	365	365	232	363
		2517	2517	2517	2517	1600	2503
		25	25	25	25	16	25
1 ½ DN40	1.900 48.3	365	365	365	365	232	363
		2517	2517	2517	2517	1600	2503
		25	25	25	25	16	25
2 DN50	2.375 60.3	365	365	365	365	232	363
		2517	2517	2517	2517	1600	2503
		25	25	25	25	16	25
2 ½	2.875 73.0	365	365	365	365	–	–
		2517	2517	2517	2517	–	–
		25	25	25	25	–	–
DN65	3.000 76.1	365	365	365	365	232	363
		2517	2517	2517	2517	1600	2503
		25	25	25	25	16	25
3 DN80	3.500 88.9	365	365	365	365	232	363
		2517	2517	2517	2517	1600	2503
		25	25	25	25	16	25
4 DN100	4.500 114.3	300	365	300	300	–	290
		2068	2517	2068	2068	–	2000
		20	25	20	20	–	20

¹⁵ Listed/Approved for continuous use in wet and dry systems. Listed/Approved for dry systems -40° F/C and above. Please see the Victaulic [Installation Manual I-109](#) for details concerning when supplemental lubrication is required.



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5.2 PERFORMANCE

Specialty Pipe

Style 009N Two-Bolt *Installation-Ready* Coupling Listings/Approvals

Pipe Type	Size inches DN	Pressure Rating	
		cULus psi kPa bar	FM psi kPa bar
EF	1 ¼ – 4 DN32 – DN100	300 2068 20	N/A
EL	1 ¼ – 2 DN32 – DN50	300 2068 20	300 2068 20
ET40	1 ¼ – 2 DN32 – DN50	300 2068 20	N/A
EZF	3 – 4 DN80 – DN100	300 2068 20	N/A
EZT	1 ¼ – 2 DN32 – DN50	300 2068 20	300 2068 20
FF	1 ½ – 4 DN40 – DN100	300 2068 20	N/A
GL	1 ¼ – 2 DN32 – DN50	300 2068 20	300 2068 20
MF	1 ¼ – 4 DN32 – DN100	300 2068 20	300 2068 20
	6 DN150	175 1205 12	175 1205 12
MT	1 ¼ – 2 DN32 – DN50	300 2068 20	300 2068 20
MLT	1 ¼ – 2 DN32 – DN50	N/A	300 2068 20
TF	2 ½ – 4 73.0 mm – DN100	N/A	300 2068 20
WG5, WG5E, WF5, WG7, WG7E, WL7	1 ¼ – 4 DN32 – DN100	175 1205 12	300 2068 20
WLS	1 ¼ – 2 DN32 – DN50	300 2068 20	300 2068 20

NOTES

- EF = EDDY FLOW steel pipe manufactured by Bull Moose Tube Co.
- EL = EDDYLITE steel pipe manufactured by Bull Moose Tube Co.
- ET40 = Eddythread 40 steel pipe manufactured by Bull Moose Tube Co.
- EZF = EZ-Flow steel pipe manufactured by Northwest Pipe Co.
- EZT = EZ-Thread steel pipe manufactured by Youngstown Tube Co.
- FF = Fire-Flo steel pipe manufactured by Youngstown Tube Co.
- GL = GL steel pipe manufactured by Wheatland Tube Co.
- MF = Mega-Flow steel pipe manufactured by Wheatland Tube Co.
- MT = Mega-Thread steel pipe manufactured by Wheatland Tube Co.
- MLT = MLT steel pipe manufactured by Wheatland Tube Co.
- TF = Tex-Flow steel pipe manufactured by Tex-Tube Co.
- WG5, WG5E, WF5 = WGalweld 5, WGalweld 5E, WFlow 5 steel pipe manufactured by Wuppermann Stahl GmbH.
- WG7, WG7E, WL7 = WGalweld 7, WGalweld 7E, WLight 7 steel pipe manufactured by Wuppermann Stahl GmbH
- WLS = WLS steel pipe manufactured by Wheatland Tube Co.



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5.3 PERFORMANCE

Specialty Pipe

Style 109 One-Bolt Installation-Ready Coupling Listings/Approvals

Pipe Type	Size	Pressure Rating	
	inches	cULus	FM
	DN	psi kPa bar	psi kPa bar
EF	1 ¼ – 2½ DN32 – 73.0 mm	N/A	300 2068 20
	1 ½ – 2½ DN40 – 73.0 mm	300 2068 20	N/A
	3 – 4 DN80 – DN100	300 2068 20	300 2068 20
Easy-Flow	1 ¼ – 2 DN32 – DN50	N/A	300 2068 20
	3 – 4 DN80 – DN100	N/A	300 2068 20
EL	1 ¼ – 2 DN32 – DN50	N/A	300 2068 20
ET40	1 ¼ – 2 DN32 – DN50	300 2068 20	300 2068 20
EZT	1 ¼ – 2 DN32 – DN50	N/A	300 2068 20
	1 ½ – 2 DN40 – DN50	300 2068 20	N/A
FF	1 ½ – 4 DN40 – DN100	300 2068 20	300 2068 20
GL	1 ¼ – 2 DN32 – DN50	N/A	300 2068
MF	1 ¼ – 4 DN32 – DN100	300 2068 20	300 2068 20
MT	1 ¼ – 2 DN32 – DN50	300 2068 20	300 2068 20
MLT	1 ¼ – 2 DN32 – DN50	300 2068 20	300 2068 20

NOTES

- EF = EDDY FLOW steel pipe manufactured by Bull Moose Tube Co.
- Easy-Flow = Easy-Flow steel pipe manufactured by Borusan Mannesmann Boru.
- EL = EDDYLITE steel pipe manufactured by Bull Moose Tube Co.
- ET40 = Eddythread 40 steel pipe manufactured by Bull Moose Tube Co.
- EZT = EZ-Thread steel pipe manufactured by Youngstown Tube Co.
- FF = Fire-Flo steel pipe manufactured by Youngstown Tube Co.
- GL = GL steel pipe manufactured by Wheatland Tube Co.
- MF = Mega-Flow steel pipe manufactured by Wheatland Tube Co.
- MT = Mega-Thread steel pipe manufactured by Wheatland Tube Co.
- MLT = MLT steel pipe manufactured by Wheatland Tube Co.
- TF = Tex-Flow steel pipe manufactured by Tex-Tube Co.
- WG7, WG7E = WGalweld 7 and WGalweld 7E steel pipe manufactured by Wuppermann Stahl GmbH.
- WLS = WLS steel pipe manufactured by Wheatland Tube Co.



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5.3 PERFORMANCE (CONTINUED)

Specialty Pipe Style 109 One-Bolt *Installation-Ready* Coupling Listings/Approvals

Pipe Type	Size	Pressure Rating	
	inches	cULus	FM
	DN	psi kPa bar	psi kPa bar
TF	2½ – 4 73.00 mm – DN100	N/A	300 2068 20
WG7, WG7E	1¼ – 2 DN32 – DN50	N/A	300 2068 20
	3 – 4 DN80 – DN100	N/A	300 2068 20
WLS	1¼ – 2 DN32 – DN50	N/A	300 2068 20

NOTES

- EF = EDDY FLOW steel pipe manufactured by Bull Moose Tube Co.
- Easy-Flow = Easy-Flow steel pipe manufactured by Borusan Mannesmann Boru.
- EL = EDDYLITE steel pipe manufactured by Bull Moose Tube Co.
- ET40 = Eddythread 40 steel pipe manufactured by Bull Moose Tube Co.
- EZT = EZ-Thread steel pipe manufactured by Youngstown Tube Co.
- FF = Fire-Flo steel pipe manufactured by Youngstown Tube Co.
- GL = GL steel pipe manufactured by Wheatland Tube Co.
- MF = Mega-Flow steel pipe manufactured by Wheatland Tube Co.
- MT = Mega-Thread steel pipe manufactured by Wheatland Tube Co.
- MLT = MLT steel pipe manufactured by Wheatland Tube Co.
- TF = Tex-Flow steel pipe manufactured by Tex-Tube Co.
- WG7, WG7E = WGalweld 7 and WGalweld 7E steel pipe manufactured by Wuppermann Stahl GmbH.
- WLS = WLS steel pipe manufactured by Wheatland Tube Co.