



Bureau de normalisation  
du Québec

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Standards System (NSS).

# ANNEX TO THE CERTIFICATE

**UNITED STATES PIPE AND FOUNDRY COMPANY ALABAMA WORKS**

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2023 Saint Louis Avenue  
Bessemer, AL 35020  
USA

**NQ 3623-085/2002-03-28 M1 (2019-07-17)**

*Ductile-Iron Pipe for Water Pressure Piping Systems -  
Characteristics and Test Methods*

Certificate number: **3196**  
Issue date: **2024-08-15**  
Expiry date: **2025-07-31**

Nominal Diameter		Pressure Class	Maximum Deflection Angle	Type of Joint	Length	
mm	(in)				m	(feet)
100	(4)	350	5°	Push-on <sup>(1) (2)</sup>	6.1	(20)
150	(6)	350	5°	Push-on <sup>(1) (2)</sup>	6.1	(20)
200	(8)	350	5°	Push-on <sup>(1) (2)</sup>	6.1	(20)
250	(10)	350	5°	Push-on <sup>(1) (2)</sup>	6.1	(20)
300	(12)	350	5°	Push-on <sup>(1) (2) (4)</sup>	6.1	(20)
350	(14)	250	5° <sup>(1)</sup>	Push-on <sup>(1) (2)</sup>	6.1	(20)
		300	3-1/4° <sup>(2)</sup>			
		350				
400	(16)	250	5° <sup>(1)</sup>	Push-on <sup>(1) (2) (4)</sup>	6.1	(20)
		300	3-1/4° <sup>(2)</sup>			
		350	4° <sup>(4)</sup>			
450	(18)	250	5° <sup>(1)</sup>	Push-on <sup>(1) (2)</sup>	6.1	(20)
		300	3° <sup>(2)</sup>			
		350				
500	(20)	250	5° <sup>(1)</sup>	Push-on <sup>(1) (2) (4)</sup>	6.1	(20)
		300	2-1/2° <sup>(2)</sup>			
		350	4° <sup>(4)</sup>			
600	(24)	200	5° <sup>(1)</sup>	Push-on <sup>(1) (2) (4)</sup>	5.5	(18)
		250	2-1/4° <sup>(2)</sup>			
		300	4° <sup>(4)</sup>		6.1	(20)
		350				
750	(30)	150	5° <sup>(1)</sup>	Push-on <sup>(1) (3) (4)</sup>	5.5	(18)
		200	0.5° <sup>(3)</sup>			
		250	2-1/2° <sup>(4)</sup>		6.1	(20)
		300				
350						
900	(36)	150	0.5° <sup>(3)</sup> 2° <sup>(4)</sup>	Push-on <sup>(3) (4)</sup>	5.5	(18)
		200				
		250				
		300				
		350				

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Nominal Diameter		Pressure Class	Maximum Deflection Angle	Type of Joint	Length	
mm	(in)				m	(feet)
1050	(42)	150	0.5° <sup>(3)</sup> 2° <sup>(4)</sup>	Push-on <sup>(3) (4)</sup>	5.5	(18)
		200				
		250				
		300				
		350				
1200	(48)	150	0.5° <sup>(3)</sup>	Push-on <sup>(3)</sup>	6.1	(20)
		200				
		250				
		300				
		350				
1500	(60)	150	0.5° <sup>(3)</sup>	Push-on <sup>(3)</sup>	6.1	(20)
		200				
		250				
		300				
		350				
1600	(64)	150	0.5° <sup>(3)</sup>	Push-on <sup>(3)</sup>	6.1	(20)
		200				
		250				
		300				
		350				

- (1) Unrestrained Push-on joint type with TYTON gasket.
- (2) Restrained Push-on joint type, TR FLEX assembly with TYTON gasket.
- (3) Restrained Push-on joint type, HP LOK assembly with TYTON gasket
- (4) Restrained Push-on joint type, HDSS assembly with TYTON gasket.

NOTE: The trademark is Griffin and is distributed in Canada by Forterra Pressure Pipe.



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**HISTORY**

Date	Modification description
2017-07-18	Issuance of certificate.
2018-11-30	Add 750 mm, 900 mm, 1050 mm, class 350, HP LOK joint tested at 0.5°.
2019-03-18	Add certification scope clarification notes regarding joint type designation per pipe diameters.
2019-07-26	Renewal of certificate.
2019-08-13	TR FLEX max. deflection angle update.
2020-03-09	Update of the certificate to the BNQ 3623-085 / 2002-03-28 M1 (2019-07-17) edition.
2021-07-15	Renewal of certificate. Add 1200 mm, 1500 mm and 1600 mm diameters.
2023-07-06	Renewal of certificate.
2024-08-15	Modification to the certificate: addition of 300, 400, 500, 600, 750, 900 and 1050 mm HDSS flexible restrained push-on joint.

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