



IRON STRONG

McWaneDuctile.com

# SURE STOP 350<sup>®</sup> GASKET

3"-24"



McWane Ductile is a division of McWane, Inc.

For Generations

# SURE STOP 350® GASKET FOR TYTON® JOINT FROM MCWANE DUCTILE

Sure Stop 350® Gaskets are available from 3" through 24" to provide instant and easy joint restraint for Tyton Joint® pipe.

Sure Stop 350 Gaskets are rated for 350 psi working pressure with a 2:1 safety factor and allow up to a 5-degree deflection at each joint. McWane Ductile's Sure Stop 350 Gaskets are boltless,

allowing quick, simple installation without special wrenches or tools, and are Underwriters Lab (UL) listed and Factory Mutual (FM) approved. McWane Ductile's Sure Stop 350 Gaskets can

be furnished with various gasket compounds, including the standard SBR, Neoprene, EPDM, and Nitrile. Please contact your local sales representative for more information.



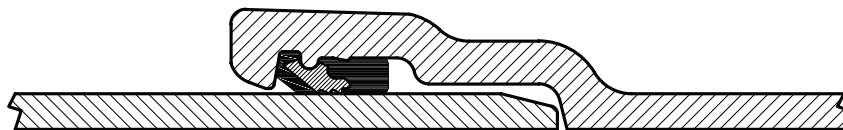
## APPLICATION NOTES

1. For Ductile iron applications utilizing Tyton pipe, valves and fittings are made to AWWA specifications.
2. In cold weather assembly, maintain the temperature of the gasket above 40° F.
3. The socket of the joint should be clean and free of debris.
4. Gasket should be properly seated in the bell socket. Apply a generous amount of manufacturer-approved lubricant\* to the gasket's inner surface.
5. Keep the pipe and joint in alignment during assembly. If installed out of alignment, the gasket can be pushed out of position, creating the potential for leaks or failure.
6. After the pipe is homed, take deflection on the pipe if needed while simultaneously pulling back on the pipe to remove slack and engage the gasket teeth.
7. Some extension of the joint will occur when pressurized. To avoid this, the joint should be pulled out after assembly to "set" the stainless steel teeth in the inserted pipe.
8. Once assembled, the joint can be disassembled using steel shims.
9. When cut pipe is used, the following steps are required:
  - a. Ensure that the spigot end is properly beveled.
  - b. Mark the joint depth on the spigot so it is clear when the joint is fully inserted.
  - c. Ensure that the pipe meets the required dimensional tolerances.
10. Do not reuse Sure Stop 350 Gaskets, as they may have been damaged during any previous installation or during removal.
11. Do not use Sure Stop 350 Gaskets to conduct electricity through the pipe joint, as they could be damaged and fail.
12. Do not use Sure Stop 350 Gaskets in above-ground applications.
13. Do not use Sure Stop 350 Gaskets with thick coating on the pipe exterior.
14. If Sure Stop 350 Gaskets are used in straight casings, you must pull the pipe through the casing. Do not push the pipe.

**\* Note:** Use only lube as supplied and/or approved by the manufacturer. *Currently approved lubricants provided by McWane Ductile include Phoenix XL-27 and Black Swan.*

# BELL DETAILS

3"-24"



## DETAILS & DIMENSIONS

SIZE IN.	RATING PSI	DEFLECTION DEGREES
3	350	5
4	350	5
6	350	5
8	350	5
10	350	5
12	350	5
14	350	4
16	350	4
18	350	4
20	350	2.5
24	350	2.5

Sure Stop 350® Gaskets are available in sizes 3-24 inches, and with a rating of 350 psi, they will meet or exceed the capabilities of Ductile iron pipe, valves and fittings.

Sure Stop 350 Gaskets are NSF 61 approved, UL listed and FM approved.

FM Rating: 3-16 in. = 250 psi | 18-24 in. = 200 psi

PIPE SIZE NOMINAL IN.	CIRCUMFERENCE		DIAMETER	
	MIN.	MAX.	MIN.	MAX.
3	12-1/4"	12-5/8"	3.90"	4.02"
4	14-29/32"	15-9/32"	4.74"	4.86"
6	21-1/2"	21-7/8"	6.84"	6.96"
8	28-1/4"	28-5/8"	8.99"	9.11"
10	34-11/16"	35-1/16"	11.04"	11.16"
12	41-9/32"	41-21/32"	13.14"	13.26"
14	47-13/16"	48-7/32"	15.22"	15.35"
16	54-13/32"	54-13/16"	17.32"	17.45"
18	61"	61-13/32"	19.42"	19.55"
20	67-19/32"	68"	21.52"	21.65"
24	80-13/16"	81-7/32"	25.72"	25.85"



# COMPATIBILITY NOTE

McWane Ductile's Sure Stop 350® Gasket is designed for use in Tyton Joint Ductile iron pipe products manufactured by McWane Ductile to conform to the latest licensed Tyton Joint drawings and parameters. Sure Stop 350 Gaskets may also be used in any other Tyton Joint provided it conforms to the latest licensed Tyton Joint drawings and

parameters. Sure Stop 350 Gaskets are not warrantied for use in any other products or non-licensed push-on joints. Additionally, gaskets not provided by McWane Ductile, whether restrained or non-restrained, are not warrantied for use in McWane Ductile products.

## STANDARDS APPLICABLE TO DUCTILE IRON PIPE AND FITTINGS

<b>THICKNESS DESIGN OF DUCTILE IRON PIPE</b>	ANSI/AWWA C150/A21.50
<b>DUCTILE IRON PIPE FOR WATER AND OTHER LIQUIDS</b>	ANSI/AWWA C151/A21.51, FEDERAL WWP421D, GRADE C
<b>DUCTILE IRON PIPE FOR GRAVITY FLOW SERVICE</b>	ANSI/ASTM A746
<b>DUCTILE IRON FITTINGS FOR WATER AND OTHER LIQUIDS</b> (3 in. through 36 in.)	ANSI/AWWA C110/A21.10
<b>DUCTILE IRON COMPACT FITTINGS</b> (3 in. through 24 in.)	ANSI/AWWA C153/A21.53
<b>FLANGED FITTINGS</b>	ANSI/AWWA C110/A21.10, ANSI B16.1
<b>DUCTILE IRON PIPE WITH THREADED FLANGES</b>	ANSI/AWWA C115/21.15
<b>COATINGS AND LININGS</b>	
Asphaltic	ANSI/AWWA C151/A21.51, ANSI/AWWA C110/A21.10, ANSI/AWWA C153/A21.53
Cement Lining	ANSI/AWWA C104/A21.4
Various Epoxy Linings and Coatings	MANUFACTURER'S STANDARD
Exterior Polyethylene Encasement	ANSI/AWWA C105/A21.5
<b>JOINTS — PIPE AND FITTINGS</b>	
Push-On and Mechanical Rubber-Gasket Joints	ANSI/AWWA C111/A21.11, FEDERAL WWP421D
Flanged	ANSI/AWWA C115/A21.15, ANSI B16.1
Grooved and Shouldered	ANSI/AWWA C606
<b>PIPE THREADS</b>	ANSI B2.1
<b>INSTALLATION</b>	ANSI/AWWA C600

Tyton® and Tyton Joint® are registered trademarks of U.S. Pipe and Foundry.



### POCKET ENGINEER

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#### NEW JERSEY

183 Sitgreaves St.  
Phillipsburg, NJ 08865  
908-454-1161

#### OHIO

2266 S. 6th St.  
Coshocton, OH 43812  
740-622-6651

#### UTAH

1401 E. 2000 South  
Provo, UT 84606  
801-373-6910



#### CANADA

55 Frid St. Unit #1  
Hamilton, ON, L8P 4M3  
905-547-3251

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