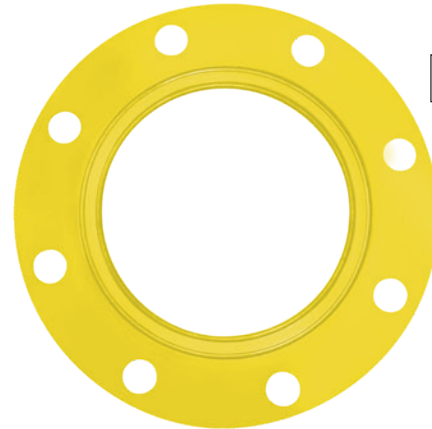


TORUSEAL®

AWWA compliant and NSF/ANSI 61 certified pipe flange gasket with dual sealing rings that concentrate the gasket load and reduce torque required to seal.



FEATURES / BENEFITS

- Raised sealing rings reduce the seating area of the gasket, lowering the required load to achieve a seal.
- Sealing rings help maintain the load during thermal and pressure cycling as well as compensate for low or uneven bolt load and beam loading.
- Gasket size, material, and NSF certification are moulded into the gasket for identification.
- Unique bright yellow colour allows for visual verification whether in-service or on the shelf.

TYPICAL APPLICATIONS

- Municipal water and wastewater and anywhere an NSF gasket is preferred.
- Non-metallic flanges or flanges with low bolt load.
- Variety of elastomers available for your specific conditions including:

SBR	The standard and most economical material for water and wastewater matching AWWA gasket standard C111/A21.11 for "Rubber Gasket Joints". SBR has an outstanding dielectric strength of 439V/mil.
Nitrile	Used in applications where the external environment/soil may contain hydrocarbons such as oils and fats that may permeate/degrade standard elastomers from the outside.
Viton	For applications in which soils may be contaminated by chemicals or petrochemicals. Viton has the most universal chemical resistance of all of the available compounds.
EPDM	Unaffected by disinfectants such as chloramines and superior resistance to ozone and sunlight aging.

SPECIFICATIONS

AWWA Compliant

Temperatures for water/wastewater:

SBR (Styrene Butadiene Rubber*)	Max. 150°F
EPDM (Ethylene Propylene Diene*)	Max. 200°F
NBR (Nitrile)	Max. 150°F
Viton® (Fluoroelastomer)	Max. 300°F

Colour: Bright yellow

Tensile strength: 1500 psi

Durometer, Shore A ± 5: 75

Pressure:

2–24"	350 psi
> 24"	250 psi

See reverse for recommended bolt torque values and other technical data. Contact A.R. Thomson Group for material selection consultation.

***Note:** Petroleum-based lubricant can adversely affect SBR and EPDM performance. SBR and Nitrile are not recommended for hot air exposure in wastewater treatment systems.

Toruseal® is a registered trademark of the American Cast Iron Pipe Company. Viton® is a registered trademark of DuPont Dow Elastomers.

TECHNICAL DATA - TORUSEAL® PIPE FLANGE GASKET

Bolt Torque Values for Toruseal Pipe Flange Gasket

For use with standard flange bolts. Holes match AWWA C110, C111, and C115 flange drilling. They also match certain flange drilling classes of AWWA C207 and ANSI B16.1 and B16.42 flanges.

NOMINAL PIPE SIZE (IN.)	PRESSURE RATING ⁽¹⁾ (PSI)	GASKET WEIGHT (LBS.)	APPROX. BOLT TORQUE ⁽²⁾ (FT-LBS.)
2	350	0.2	100
3	350	0.2	100
4	350	0.3	100
6	350	0.4	150
8	350	0.5	150
10	350	0.8	200
12	350	1.0	200
14	350	1.1	250
16	350	1.3	250
18	350	1.3	300
20	350	1.5	300
24	350	1.8	400
30	250	2.4	400
36	250	2.7	500
42	250	4.6	500
48	250	5.8	500
54	250	6.8	600
60	250	8.0	600
64	250	12.5	600

NOTES

- (1) Pressure rating designated is maximum water working pressure and is based on the maximum rating of C110, C115, or C153 flanges. Toruseal gaskets meet the description of "specially designated gaskets" shown in the appendices of AWWA C110, C111, C115, and "special gaskets" shown in the body of AWWA C111.
- (2) Bolt torque applicable only to joints with Toruseal gaskets.

Limitation of liability: actual performance may vary and is determined by factors unique to a given application. It is recommended that care be taken in the selection and application of materials for hazardous services and controlled testing be undertaken to determine suitability for a specific application. A.R. Thomson Group does not make or imply any warranty of suitability for a particular purpose and is not liable for any damages arising from the use of the information in this sheet.



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