

## RETAINER GLANDS



### GENERAL SPECIFICATIONS

- MATERIAL :** Ductile Iron per ASTM A536.
- STANDARDS :** Per ANSI/AWWA C110, C111, and C153; cast with ASTM A536 Ductile Iron.
- PRESSURE :** See Chart below for WWP Ratings for 3" - 36".
- TESTING :** In accordance with ANSI/AWWA C153/A21.53
- WEIGHTS :** Do not include Accessories and Coatings.
- COATING :** Asphaltic Seal Coat in accordance with ANSI/AWWA C104/A21.4, NSF 61
- T-BOLTS/NUTS :** Approved High Strength Low Alloy Steel in accordance with ANSI/AWWA C111/
- SET SCREWS:** A21.11. Square headed with Type C knurled cup points, 4140 grade alloy steel that is heat treated to a Rockwell "C" 45/53 case hardness. Shipped assembled in the Gland.

1. Wipe bell and plain end clean with soapy water, then slip gland and gasket over plain end with the small side of the gasket and ring side of of the gland facing the bell.
2. Slip plain end into bell. Brush soapy water or approved lubricant on gasket. This allows the gasket to slip easily into place. Push gasket into bell making sure it is evenly in the bell gasket landing.
3. Slide the gland into position against the back of the gasket. Align bolt holes, insert T-bolts and tighten nuts to finger tight.
4. Snug up all T-bolt nuts evenly. Alternating at 180°, tighten the T-bolt nuts to a torque of: 3" - 45 - 60 Ft. Lbs., 4" - 24" 75 - 90 Ft. Lbs. 30" and above 100 - 120 Ft. Lbs.
5. Snug up all set screws evenly. Using a torque wrench, tighten the set screws alternating at 180° to the recommended torque value of foot pounds as shown on Chart. If required double check set screws immediately.

Nominal Pipe Size	Weight	AWWA Ductile Iron Pipe O.D	WWP Rating (psi.)	Set Screws		
				Qty.	Size	Torque (ft. lbs.)
3	5	3.96	350	4	5/8 X 2	85
4	7	4.80	350	4	5/8 X 2	85
6	12	6.90	350	6	5/8 X 2	85
8	16	9.05	250	9	5/8 X 2	85
10	22	11.10	250	16	5/8 X 2	85
12	28	13.20	250	16	5/8 X 2	85
14	45	15.30	250	20	5/8 X 2	85
16	52	17.40	250	24	5/8 X 2	85
18	62	19.50	200	24	5/8 X 2	85
20	75	21.60	200	28	5/8 X 2	85
24	97	25.80	200	32	5/8 X 2	85
30	196	32.00	100	40	3/4 X 2 1/2	110
36	246	38.30	100	48	3/4 X 2 1/2	110

Weight : All are in lbs.    Dimensions : All are in Inches