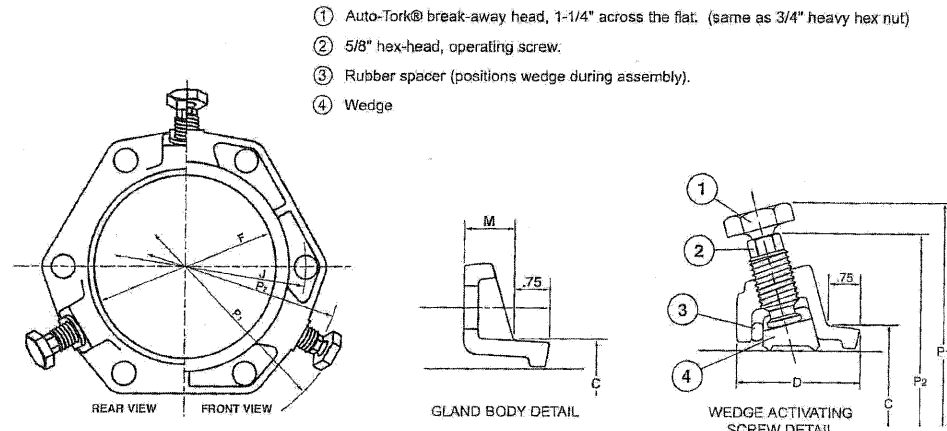


# Uni-Flange® Series 1400

## Information - Wedge Action Retainer Gland for Ductile Iron Pipe



Series 1400 Retainer Gland for Ductile Iron Pipe

NOM. PIPE SIZE	O.D.	CATALOG NUMBER	PRESSURE RATING (psi)	No. OF WEDGES	APPROX. WEIGHT (LBS.)	P1*	P2**	C	D	F	M	J
3	3.80	UFR1400-D-3	350	2	6.0	11.04	9.06	2.84	2.65	4.06	0.68	6.19
4	4.80	UFR1400-D-4	350	2	6.5	11.9	10.0	5.92	2.65	4.90	0.88	7.50
6	6.90	UFR1400-D-6	350	3	10	14.0	12.1	8.02	2.65	7.00	0.88	9.50
8	9.05	UFR1400-D-8	350	4	12	16.2	14.3	10.17	2.65	9.15	1.10	11.75
10	11.10	UFR1400-D-10	350	6	23	18.2	16.3	12.22	2.75	11.20	1.10	14.00
12	13.20	UFR1400-D-12	350	8	27	20.3	18.4	14.32	2.75	13.30	1.10	16.25
14	15.30	UFR1400-D-14	350	10	46	22.9	20.9	16.40	3.00	15.44	1.50	18.75
16	17.40	UFR1400-D-16	350	12	52	25.0	23.0	18.50	3.00	17.54	1.56	21.00
18	19.50	UFR1400-D-18	250	12	69	28.1	25.8	20.60	3.05	19.64	1.65	23.25
20	21.60	UFR1400-D-20	250	14	76	30.2	27.9	22.70	3.10	21.75	1.70	25.50
24	25.80	UFR1400-D-24	250	16	96	34.4	32.1	26.90	3.20	25.94	1.85	30.00
30	32.00	*** UFR1400-D-30	250	20	183	40.6	38.6	33.29	3.55	32.17	2.25	36.88
36	38.30	*** UFR1400-D-36	250	24	223	46.9	44.9	39.59	3.76	38.47	2.25	43.75

\* Maximum O.D. of gland on pipe before break-away heads have been removed (as received).  
 \*\* Maximum O.D. of gland on pipe after wedges have been activated and break-away heads have been removed.  
 \*\*\* 30" and 36" sizes include a Uni-Seal gasket.

Note: 4" - 12" oversized 1400 Retainer Glands are available for Class C and D gray cast iron (Color Coded Gray). To order these oversized units, add "-XL" to the end of the catalog number. Example: UFR1400-D-6-XL.

TABLE 2  
Allowable Leakage for Pipeline per 1,000 ft - gph

Avg. Test Pressure psi	Pipe Size in Inches															
	2	3	4	6	8	10	12	14	16	18	20	24	30	36	42	48
200	0.21	0.32	0.43	0.64	0.85	1.06	1.28	1.48	1.70	1.91	2.12	2.55	3.19	3.82	4.46	5.09
175	0.20	0.30	0.40	0.59	0.80	0.99	1.19	1.39	1.59	1.79	1.98	2.38	2.98	3.58	4.17	4.77
150	0.19	0.28	0.37	0.55	0.74	0.92	1.10	1.29	1.47	1.66	1.84	2.21	2.76	3.31	3.86	4.41
125	0.17	0.25	0.34	0.50	0.67	0.84	1.01	1.18	1.34	1.51	1.68	2.01	2.52	3.02	3.53	4.03
100	0.15	0.23	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.80	2.25	2.70	3.15	3.60
80	0.14	0.20	0.27	0.41	0.54	0.68	0.81	0.95	1.08	1.22	1.35	1.62	2.03	2.44	2.84	3.25
60	0.12	0.18	0.23	0.35	0.47	0.59	0.70	0.82	0.94	1.06	1.17	1.41	1.76	2.11	2.46	2.82

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~~TABLE 3  
Allowable Leakage for Cement Asbestos Pipe 13' Lengths per 100 couplings - gph~~

Avg. Test Pressure psi	Pipe Size in Inches												
	4	6	8	10	12	14	16	18	20	24	30	36	42
200	1.42	2.12	2.84	3.54	4.24	4.96	5.68	6.37	7.08	8.50	10.62	12.74	14.86
175	1.32	1.98	2.64	3.40	3.96	4.62	5.27	5.93	6.58	7.91	9.88	11.88	13.85
150	1.23	1.84	2.45	3.07	3.68	4.28	4.89	5.52	6.12	7.34	9.18	11.02	12.82
125	1.12	1.68	2.24	2.79	3.35	3.91	4.47	5.02	5.58	6.69	8.37	10.07	11.78
100	1.00	1.51	2.00	2.50	3.00	3.50	4.01	4.52	5.00	6.00	7.51	9.01	10.48
75	0.87	1.29	1.72	2.15	2.58	3.01	3.44	3.87	4.30	5.16	6.45	7.75	9.08
50	0.71	1.06	1.42	1.77	2.12	2.48	2.83	3.18	3.54	4.24	5.30	6.37	7.42

~~\*The data are based on 150 psi and represent a leakage of approximately 30 gpd per mile of pipe per in. of pipe diameter, for pipe in 13-ft lengths.~~

ALLOWABLE LEAKAGE FOR PIPELINE - CEMENT-ASBESTOS PIPE

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