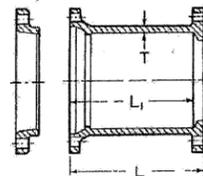


Tyler/Union

MECHANICAL JOINT C153 DUCTILE IRON COMPACT FITTINGS Sizes 3" thru 12" UL Listed For Fire Main Equipment

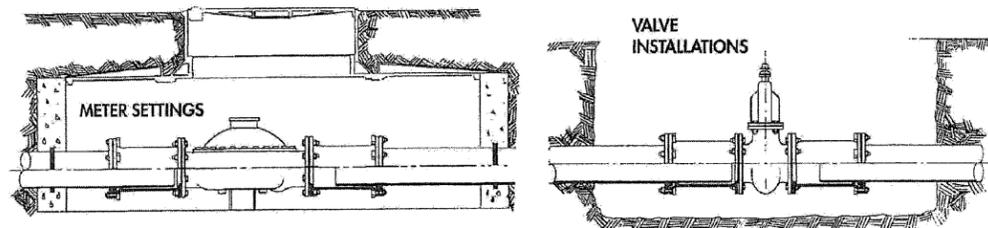
DUAL PURPOSE CUTTING-IN SLEEVE



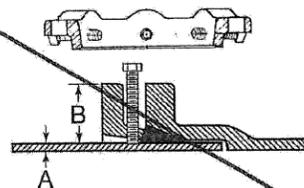
MJ x FE Cutting-In Sleeve with Dual Purpose Accessories						
Size	For Pipe Size	Dimensions			Shipping Wt. Assembled	
		L	L'	T		
4	4.80-5.00 O.D.	10	9.5	.35	33	
6	6.90-7.10 O.D.	10	9.5	.37	50	
8	9.05-9.30 O.D.	10	9.5	.39	67	
10	11.10-11.40 O.D.	10	9.5	.41	122	
12	13.20-13.50 O.D.	10	9.5	.43	157	

Flanged ends are faced and drilled per ANSI/AWWA C110/A21.10. Mechanical joint ends are designed to receive both standard and oversize gray or ductile iron pipe as shown above.

TYPICAL CUTTING-IN SLEEVE INSTALLATIONS



*RETAINER GLAND ASSEMBLY



See Installations Instructions Page 51

Size	Pressure Rating, psi	Gland O.D. B	Pipe O.D. A	D.I. Pipe Class	No of Set Screws	Size of Set Screws	Gland Weight	Weight w/Access.
3	350	7.69	3.96	50-56	4	5/8x2	7	7
4	350	9.12	4.80	50-56	4	5/8x2	5	13
6	350	11.12	6.90	50-56	6	5/8x2	9	20
8	250	13.37	9.05	50-56	9	5/8x2	13	25
10	250	15.62	11.10	50-56	12	5/8x2	17	33
12	150	17.88	13.20	50-56	16	5/8x2	20	38
14	250	20.25	15.30	53-56	20	5/8x2 1/2	44	55
16	200	22.50	17.40	53-56	24	5/8x2 1/2	54	64
18	200	24.75	19.50	53-56	24	5/8x2 1/2	62	72
20	200	27.00	21.60	53-56	28	5/8x3	76	91
24	150	31.50	25.80	53-56	32	5/8x3	103	118

* Not included in AWWA C110

Pipe Wall Thickness:

Sizes 3"-12" are recommended for ductile iron pipe class 50 thru 56. Sizes 14" thru 24" are recommended for ductile iron pipe class 53 thru 56.

DUCTILE IRON RETAINER GLANDS

Mechanical Joint Retainer Glands are designed to provide a method for restraining mechanical joint pipe and fittings and other standardized mechanical joints against possible joint separation, rupture or blow-out caused by internal water pressure.

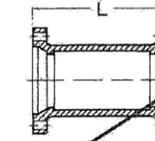
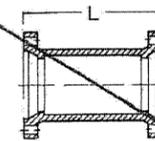
The set screws are square-headed with Type C knurled cup points, and are shipped already assembled in the Glands. They are manufactured of 4140 grade alloy steel, and are heat treated to a Rockwell "C" 45/53 case hardness. Tee-head bolts and gaskets are not included, but may be ordered separately. Recommended torque for set screws is 75 foot pounds, and set screws on opposite sides of the glands should be tightened alternately.

Tee-head bolt hole size and spacing are equal to MJ Glands as shown in AWWA C-111. Standard mechanical Joint gaskets as shown in C-111 should be used.

Tyler/Union

DUCTILE IRON C110 FULL BODY MECHANICAL JOINT FITTINGS

SOLID SLEEVES



Standard						* Dual Purpose †					
Size	Pipe O.D.	Short		Long		Size	Pipe O.D.	Short		Long	
		L	Weight	L	Weight			L	Weight	L	Weight
*2	2.50	8.0	13	12	18	4	4.80/5.00	7.5	35	12	45
3	3.96	7.5	...	12	30	6	6.90/7.10	7.5	45	12	65
4	4.80	7.5	35	12	45	8	9.05/9.30	7.5	65	12	85
6	6.90	7.5	45	12	65	10	11.10/11.40	...	...	12	115
8	9.05	7.5	65	12	85	†12	13.20/13.50	...	...	12	221
10	11.10	7.5	85	12	115	†16	17.40/17.80	...	...	15	385
12	13.20	7.5	110	12	153						
16	17.40	9.5	200	15	283						
18	19.50	9.5	240	15	330						
20	21.60	9.5	275	15	384						
24	25.80	9.5	360	15	505						
30	32.00	15.0	745	24	1085						
36	38.30	15.0	1047	24	1502						

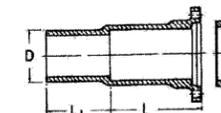
* Not included in AWWA C110

* MJ x PE DUAL-PURPOSE CUTTING-IN SLEEVE

With Dual-Purpose Accessories

(NOTES: Gland with cup-joint set screws available at extra cost when specified. NOT FOR RESTRAINT.)
Currently, Tyler and Union DP Glands are NOT interchangeable.

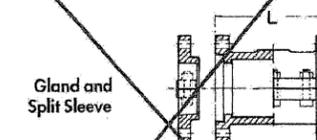
Cutting-In Sleeve & Gland



Size	For Use On Pipe O.D.	L	L'	D	Weight	
					Gland Only	Gland & Sleeve
4	4.80 - 5.00	12	8	4.80	9.5	72
6	6.90 - 7.10	12	8	6.90	13.0	94
8	9.05 - 9.30	12	8	9.05	20.0	122
10	11.10 - 11.40	12	8	11.10	24.0	175
12	13.20 - 13.50	12	8	13.20	30.0	235

* Not included in AWWA C110.

SPLIT REPAIR SLEEVE WITH ACCESSORIES



Size	L	*Weight	Gland Only
4	15	115	9
6	18	165	16
8	18	215	24

*Weights include all accessories assembled.