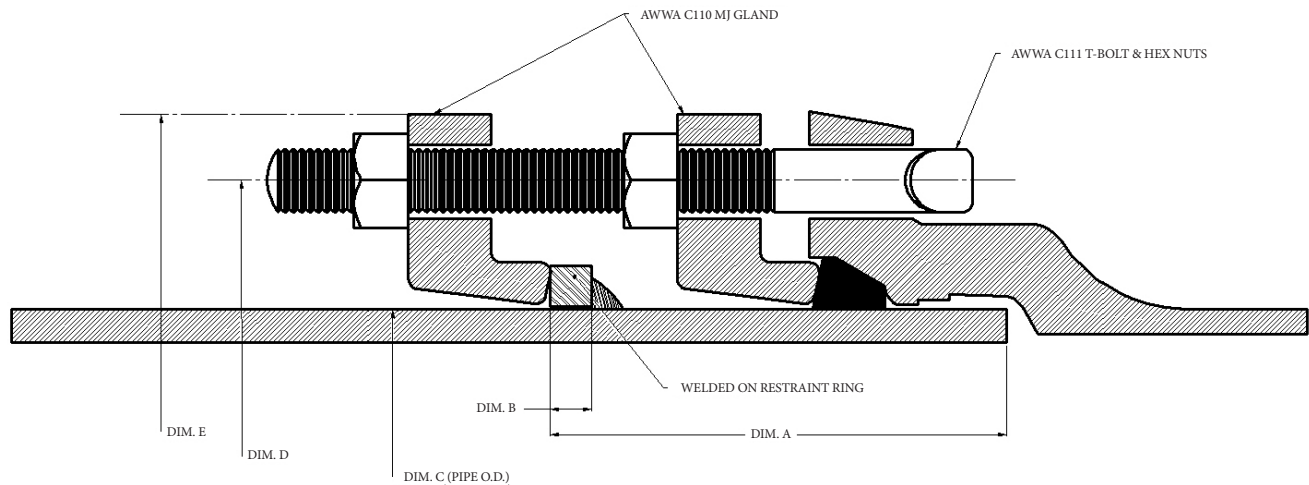




IRON STRONG

DUCTILE IRON PIPE  
**MECHANICAL  
 JOINT LOCK  
 JOINT**  
 6"-30"



PIPE SIZE	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E	BOLT DIA.	BOLT LENGTH	# OF BOLTS	DEFLECTION ANGLE*
6	5 1/8"	.50	6.90	9.50	11.12	3/4"	6"	6	4°
8	5 1/2"	.50	9.05	11.75	13.37	3/4"	7"	6	4°
10	5 1/2"	.50	11.10	14.00	15.62	3/4"	7"	8	4°
12	5 1/2"	.50	13.20	16.25	17.88	3/4"	7"	8	4°
14	7	.30	15.30	18.75	20.25	3/4"	9"	10	3.75°
16	7	.30	17.40	21.00	22.50	3/4"	9"	12	3.5°
18	7	.30	19.50	23.25	24.75	3/4"	9"	12	3°
20	7 1/4"	.30	21.60	25.50	27.00	3/4"	9"	14	2.75°
24	7 1/2"	.30	25.80	30.00	31.50	3/4"	9"	16	2.5°
30	8 1/2"	.75	32.00	36.88	39.12	1"	10"	20	2°

\*NOTE: DEFLECTION ANGLE ACHIEVED WHEN HEX NUTS AT THE JOINT RESTRAINING GLAND ARE FINGER TIGHT.  
 FOR PRODUCT AVAILABILITY IN SIZES ABOVE 30", PLEASE CONTACT YOUR MCWANE DUCTILE SALES REPRESENTATIVE FOR DETAILS.

## MECHANICAL JOINT LOCK JOINT

The MJ-Lock Joint can be used with mechanical joint pipes, fittings, and valves as a means of creating a restrained joint when a mechanical joint connection has been specified. One MJ gland is used to secure the gasket and create a watertight seal, while the second MJ gland is used for joint restraint. A factory installed restraint ring is welded to the pipe spigot, preventing the MJ gland from sliding off the spigot, prior to shipping.

The MJ gasket gland and hex nut should be installed and torqued in accordance with AWWA C600.

The joint restraining gland should be installed tight against the welded on restraint ring, but the hex nut at this gland should only be tightened to finger tight. With a finger tight hex nut at the joint restraining gland, the joint is capable of achieving the deflections shown in the table below. If greater deflections are needed, consult the manufacturer prior to ordering. When a fully rigid connection is needed, the hex nut at the joint restraining gland should be tightened to the same torque as the hex nut at the MJ gasket gland per AWWA C600.

## 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 (3 in. through 36 in.)</b>	ANSI/AWWA C110/A21.10
<b>DUCTILE IRON COMPACT FITTINGS (3 in. through 24 in.)</b>	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



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