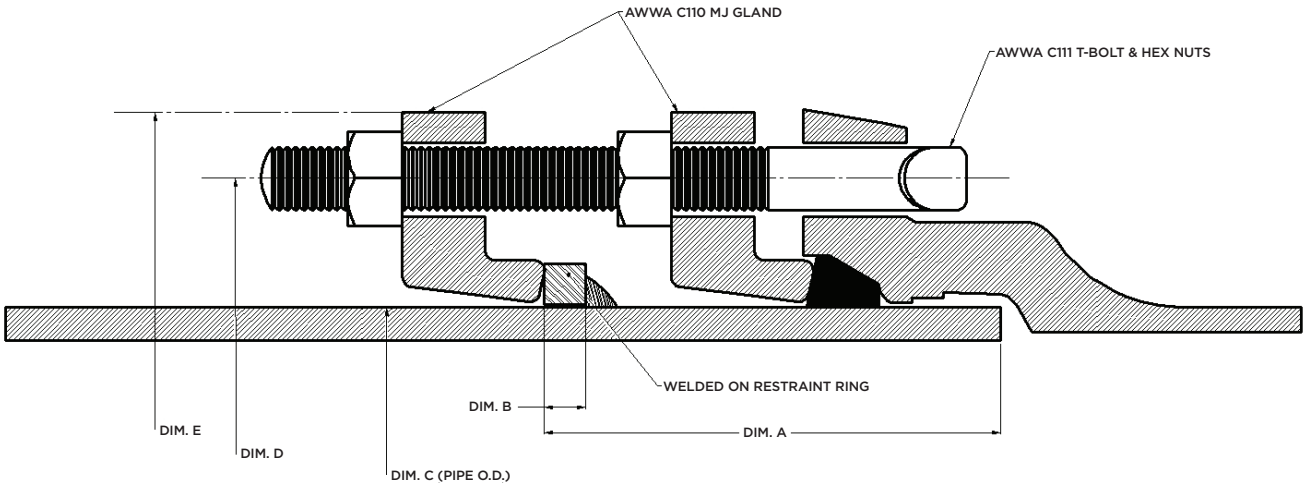
McWANE DUCTILE

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	.60	15.30	18.75	20.25	3/4"	8"	10	3.75°
16	7	.60	17.40	21.00	22.50	3/4"	8"	12	3.5°
18	7	.60	19.50	23.25	24.75	3/4"	8"	12	3°
20	7 1/4"	.60	21.60	25.50	27.00	3/4"	8"	14	2.75°
24	7 1/2"	.60	25.80	30.00	31.50	3/4"	9"	16	2.5°
** 30	8 1/2"	.70	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.

** 1" X 10" T-HEAD BOLTS NEED TO HAVE A MINIMUM OF 7" OF THREAD.

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

THICKNESS DESIGN OF DUCTILE IRON PIPE	ANSI/AWWA C150/A21.50
DUCTILE IRON PIPE FOR WATER AND OTHER LIQUIDS	ANSI/AWWA C151/A21.51, FEDERAL WWP421D, GRADE C
DUCTILE IRON PIPE FOR GRAVITY FLOW SERVICE	ANSI/ASTM A746
DUCTILE IRON FITTINGS FOR WATER AND OTHER LIQUIDS	ANSI/AWWA C110/A21.10
DUCTILE IRON COMPACT FITTINGS	ANSI/AWWA C153/A21.53
FLANGED FITTINGS	ANSI/AWWA C110/A21.10, ANSI B16.1
DUCTILE IRON PIPE WITH THREADED FLANGES	ANSI/AWWA C115/21.15
COATINGS AND LININGS	
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
JOINTS — PIPE AND FITTINGS	
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
PIPE THREADS	ANSI B2.1
INSTALLATION	ANSI/AWWA C600

McWANE DUCTILE
McWaneDuctile.com

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1401 E. 2000 South
Provo, UT 84606
801-373-6910

McWANE CANADA
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