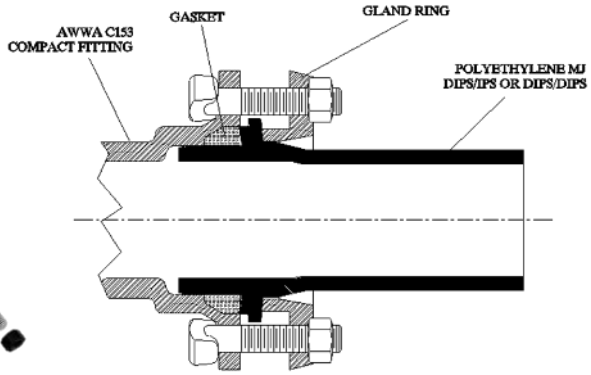
MJ Adapter Installation & Torque Values



The MJ Adapter is a polyethylene fitting that is designed to; a) make a transition to or from a non-polyethylene system by use of a standard ANSI/AWWA mechanical joint, or b) give you the ability to connect a polyethylene system to traditional hydrants, valves, and metal pipes using a standard ANSI/AWWA mechanical joint fitting.

To make this kind of connection you need to have on-hand, an MJ Adapter, and an MJ Gland Pack, which typically consists of a gasket, an MJ gland ring, and the required number of gland ring t-bolts that will allow you to bolt the mechanical joint together.

When making the MJ Adapter connection it is important to remember to properly place the gland ring on the HDPE pipe side of the MJ Adapter before butt fusing or electro-fusing it to the pipe. After the fusion joint is made, place the gasket on the mechanical joint side of the adapter with the gaskets bevel pointing outward.

Insert the MJ Adapter, and the gasket (bevel end first), into the socket of the mechanical joint fitting and align the gland ring. Insert the t-bolts and hand tighten the nuts.

Tighten the bolts to the normal range of torque using a torque wrench (see table below) while maintaining approximately the same distance around all points of the MJ Adapters hub and the mechanical joint socket. This can be done by partially tightening the bottom bolt first, then the top bolt, and then the bolts on either side. Repeat the process until all bolts are within the appropriate range of torque.

Pipe Size		Bolt Size		Torque Range	
In.	mm	In.	mm	ft – lb.	N - m
3”	76	5/8	16	45 - 60	61 - 81
4” – 24”	102 -610	3/4	19	75 - 90	102 - 122
30” – 36”	762 - 914	1	25	100 - 120	136 - 163
42” – 64”	1,067 – 1,600	1 1/4	32	120 - 150	163 - 203

** *When the gland ring is used, restraining devices are not required on the PE pipe. (Plastic Pipe Institute – Handbook of Polyethylene Pipe; Chapter 9 PE Pipe Joining Procedures)*