

SIGMA MJ CONNECTOR

INSTALLATION INSTRUCTION FOR MJ VALVE AND FITTING RESTRAINT

BEFORE YOU BEGIN: Match the Accessory Pak to the fittings being installed.

- 1) For typical C153 compact fittings and valves STANDARD Accessory Pak
- 2) LONG-BOLT Accessory Pak - for full-body C110 fittings and certain butterfly valves with thick bolt flanges

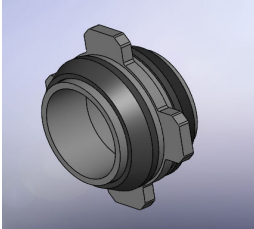
HYDRANT AND OTHER CONNECTIONS

- When connecting both the “branch” and “run” of 3 thru 14 inch compact tees or crosses, or 6 and 8 inch 90s the standard accessory bolts may interfere with each other. Substituting shorter bolts should solve this. Conduct a trial connection prior to assembly in the field. Special accessory paks with shorter bolts are available. Contact SIGMA for more info.
- We highly recommend that when hydrants are being connected a trial connection is made prior to field assembly due to the large variety of hydrant designs available. Connector can be assembled on many hydrant shoes that have adequate space for bolt clearance.

WRENCH SIZES

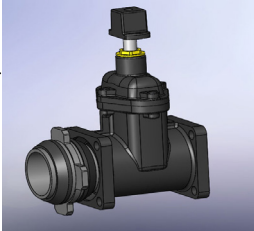
A combination wrench may be required to install the Connector on some valves. Wrench size required:

- 3-inch (75mm): 1 1/16-inch wrench
- 4 to 12-in (100-300mm): 1 1/8-inch wrench
- 14 to 24-inch (350-600mm): 1 1/4-inch wrench
- 30 to 36-inch (750-900mm): 1 5/8-inch wrench

1 

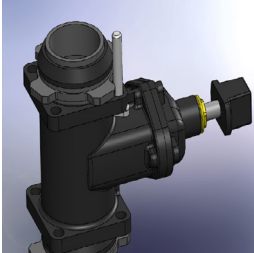
a) Be sure to lubricate both the INSIDE and OUTSIDE of gaskets.

b) Fully seat gasket on each side of the MJ Connector.

2 


a) If possible, place valve or fitting on its end and push MJ Connector into it.

b) Install EVENLY.

3 

a) Install T-bolts first. This provides easier eyebolt installation. Put bolts in hard-to-reach holes BEFORE placing the fitting into position.

b) EVENLY seat fitting on the MJ Connector and install the remaining bolts.

4 

a) Place T-head spacers on bolts with the rounded side against the flange of the fitting or valve so the nut is against the flat side.

5 Diameter, inches Diameter, mm NUMBER OF EYEBOLTS

3, 4	75, 100	none
6, 8	150, 200	1 eye-bolt on each side of valve
10, 12	250, 300	2 eye-bolts on each side of valve
14-36	350-900	none

6 Tighten the nuts in an alternating pattern as follows:

3-inch (75mm)	45-60 ft-lbs (61-81 N•m)
4-24-inch (100-600mm)	75-90 ft-lbs (102-122 N•m)
30-36-inch (750-900mm)	100-120 ft-lbs (135-163 N•m)

WHY USE THE SPACERS:

A T-bolt head normally goes in this place, so the fitting interferes with tightening the nut. The T-head spacer raises the nut to keep it from contacting the fitting when you tighten the nut.

WHY USE THE EYEBOLTS:

The shape of the eyebolt makes it easier to bolt the MJ Connector to certain sizes of wide-bodied valves. When using to connect two fittings, place the eyebolts in any convenient bolt hole location. The eyes do not have to be rodded.