

FOSTER ADAPTOR

INSTALLATION INSTRUCTIONS

MJ valve and fitting restraint

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BEFORE YOU START:

- BOLT LENGTH**
- 1) **STANDARD Accessory Pak** — for typical C153 compact fittings and valves
 - 2) **LONG-BOLT Accessory Pak** — for full-body C110 fittings and certain butterfly valves with thick bolt flanges
- HYDRANT AND OTHER CONNECTIONS**
- 1) When using 3-inch to 14-inch Fosters on both the “branch” and “run” of compact tees or crosses, the standard accessory bolts may obstruct each other. Substitution of shorter bolts should solve this. Conduct a trial connection prior to field assembly. Special short-bolt accessory paks are available. Contact Infact for more info.
 - 2) Because of the large variety of hydrant designs, we strongly recommend that you conduct a trial connection prior to field assembly. Foster Adaptors can be assembled on many hydrant shoes that have adequate space for bolt clearance, including M&H Model 129, Mueller Centurion and Clow Medallion. Contact Infact for more info.

CHECK FITTING BOLT HOLE PATTERN

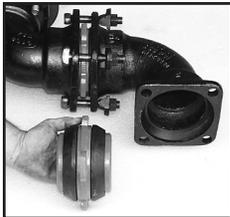
On rare occasions, certain fittings may sometimes be manufactured with bolt hole patterns that are not in the normal locations. Check by aligning the valve or fitting to the fitting prior to installation to assure desired position is acquired.

WRENCHES

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

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

1



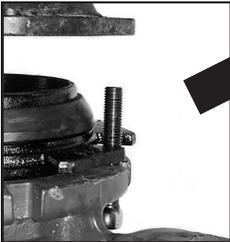
- a) ****See “Check Fitting Bolt Hole Pattern” above**
- b) Lubricate **INSIDE** and **OUTSIDE** of gaskets.
- c) Seat gaskets on each side of adaptor.

2



- a) When possible, place valve or fitting on its end and push adaptor into valve or fitting.
- b) Install **EVENLY**.

3



- a) Install T-bolts first. This provides easier eyebolt installation. Place bolts in hard-to-reach holes BEFORE you lower the fitting.
- b) **EVENLY** seat fitting on the adaptor and insert other bolts.

4



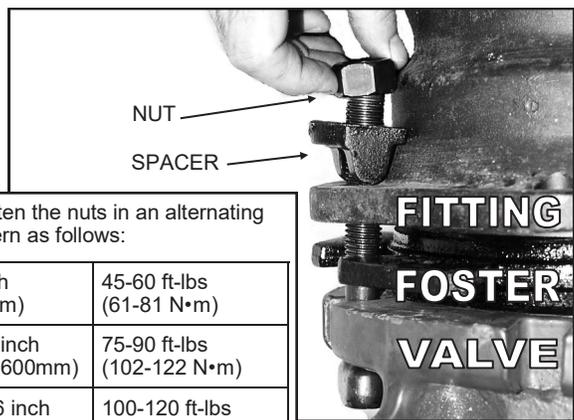
- a) Place T-head spacers on bolts. The rounded T-head faces the bolt, and the flat side faces the nut.

5

Diameter, inches	Diameter, mm	NUMBER OF EYEBOLTS
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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 the spacers? You're putting a nut where a T-bolt normally goes, so you'll use the T-head spacer to shift the nut upward to keep it from hitting the fitting when you tighten the nut.

Why the eyebolts? You do not have to rod to the eyebolts; the curve of the eyebolts just makes it easier to bolt the Foster to certain sizes of wide-bodied valves. When using the Foster to connect two fittings, place the eyebolts in any convenient hole location.

IN FACT

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