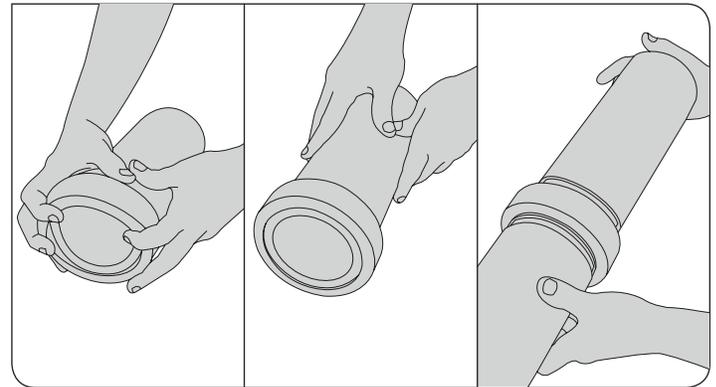


1. INSPECT GROOVED END PIPES OR FITTINGS

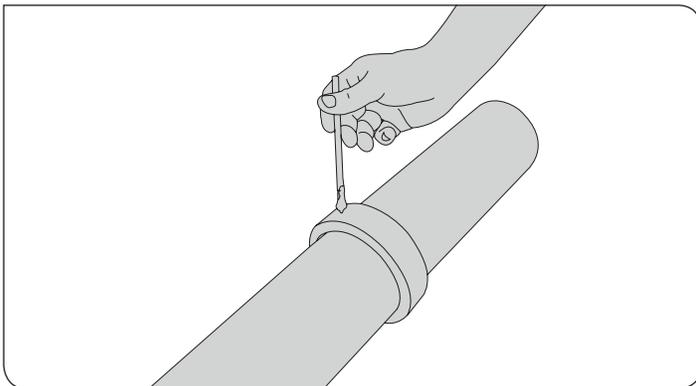
Make certain that any burrs, grease, dirt or foreign objects are removed from the grooved end. Ends must be free of sharp edges, indentations, or other defects.



2. INSTALL GASKET

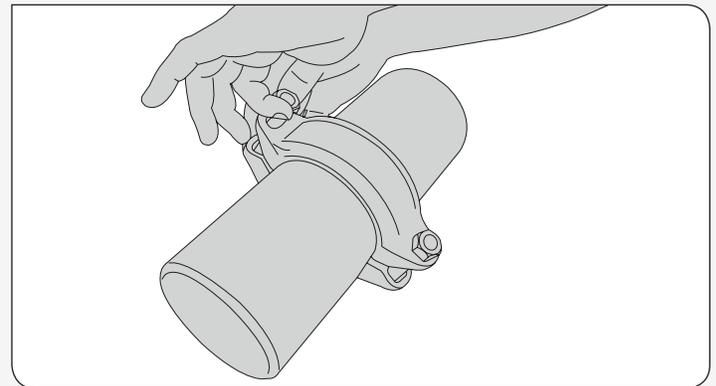
Inspect gasket to ensure that it is the correct material for the application and that it is clean and free of defects.

Slide the gasket over the end of the pipe until the gasket is not overhanging the end of the pipe. Next, align the two pipe ends and slide the gasket into place so that it is centered between the two pipe ends, between the groove on either pipe.



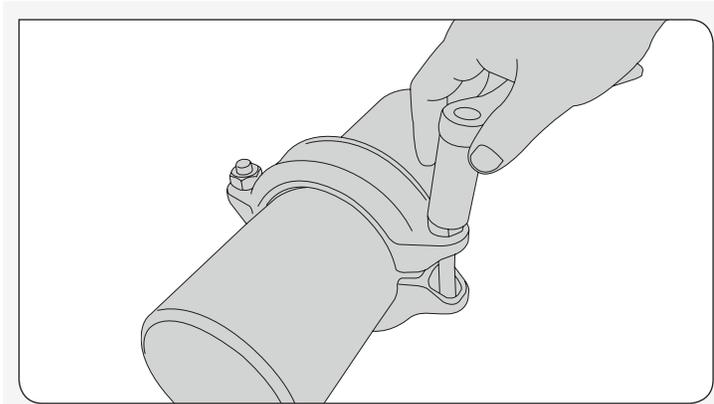
3. PREPARE GASKET

Coat the sealing edges and outer surface of the gasket with a thin layer of silicon-based lubricant (available from Munro).



4. INSTALL HOUSINGS AND BOLTS

Ensure that the grooved ends remain aligned and together. Align the housings over the gasket. Ensure that the housing's grooved end is inserted into the pipe's groove. Insert the bolts through the housings and thread the nuts on the bolts until they are finger tight. Ensure that the housings are not misaligned and that the oval head of each bolt sits properly in the bolt hole.



5. TIGHTEN NUTS

Using the torque specification table as a guide, ensure that the nuts are tightened alternately and equally until metal to metal contact is made with no gaps.

SPECIFIED BOLT TORQUE

Specified bolt torque is for the oval neck track bolts used on Munro couplings. The nuts must be tightened alternately and evenly until fully tightened. **CAUTION:** Use of an impact wrench is not recommended because the torque output can vary significantly due to many variables including air pressure supply, battery strength and operational variations.

CAUTION

Proper torquing of coupling bolts is required to obtain specified performance. Over torquing the bolts may result in damage to the bolt and/or casting which could result in pipe joint separation. Under torquing the bolts may result in lower pressure retention capabilities, lower bend load capabilities, joint leakage and pipe joint separation. Pipe joint separation may result in significant property damage and serious injury.

BOLT TORQUE		
Coupling Bolts	Minimum	Maximum
In.	Ft.-Lbs./N-m	Ft.-Lbs./N-m
1/2 X 2 3/8 (2" couplings)	80 110	100 150
1/2 X 3 (3" - 4" couplings)	80 110	100 150
5/8 X 3 1/2 (6" - 8" couplings)	100 135	130 175
3/4 X 4 3/4 (10" - 12" couplings)	130 175	180 245