



## JAECO GRIP SEAL® INSTALLATION AND OPERATION

**IMPORTANT:** Carefully read these instructions before starting the job. Check the sectioned view of the Grip Seal fitting for correct parts nomenclature. Do not disassemble fitting.

**DO NOT** tighten the nuts before installation. This will close the collets and probably necessitate disassembly to open the collets for receiving the end of the pipe. Fitting may be loosened to facilitate installation, but must not be disassembled.

### Preparing the Pipe

1. Allow for compression of the seal by cutting the pipe to the proper length – do not cut short.
2. Cut the pipe *square*. Use a pipe or tubing cutter. Do not use a toothed blade or cutoff wheel.
3. The cut should be within 5° of a right angle to the pipe axis.
4. Deburr the cut ends leaving square corners.

### Installing the Fittings

1. Make sure the ends of the pipe “bottom” on the shoulder of the seal.
2. Allow for slight axial movement as the collet draws the pipe against the seal.
3. a. With 1” and smaller joints, in particular, the pipe should be properly aligned when tightening the joint. The alignment is true when the nut runs freely while hand tightening.  
b. On 1” and smaller fittings, the Teflon washer between the drive ring and nut helps prevent turning of the pipe when tightening the joint. A strap or pipe wrench may also be used to keep the pipe from turning.
4. On 1 ¼” and larger joints, take up on the bolts uniformly, hand tightening first.
5. Wrench the fittings up tight. Torque requirements vary considerably due to pipe tolerance, surface finishes, etc. See page 2 for recommended minimum torque specifications. Lubricant on the fitting threads will permit easier tightening. The Teflon seal must be thoroughly “flowed” to form a leak tight joint. When the temperature is below 40°F, warming the fittings will result in easier “flowing” of the seal. For recommended torque values, see page 2. Ensure the temperature remains low enough that the part can still be handled: i.e. less than 140°F.
6. The installed piping should be adequately supported to prevent excessive deflection at the joints per normal piping practice.
7. It is not necessary to replace the seal and washer as described in 3b when reassembling the fitting unless the seal has been torn or mutilated.



## JAECO GRIP SEAL® INSTALLATION AND OPERATION

### GRIP SEAL RECOMMENDED INITIAL SEALING TORQUE

Below you will find representative torque requirements. Please keep in mind that variables such as pipe tolerances, surface finishes, thread friction and alignment all affect these values.

Size	Recommended Minimum Sealing Torque
1/4"	20 foot pounds
3/8"	30 foot pounds
1/2"	50 foot pounds
1"	
1 1/4"	15 foot pounds per stud
1 1/2"	
2"	30 foot pounds per stud
2 1/2"	50 foot pounds per stud
3"	
4"	

**NOTE:** When fittings are subjected to a temperature rise, re-torquing may be required.