

# Installation Instructions

## *FLOSAFE G* (Gasketed) PP or PVC Secondary Containment System

### Packaging

Flo-Safe G fittings are individually packaged in plastic bags. The two half fittings are shipped with gaskets installed and held together by the pressure bands. Pre-cut assembly rods are included in the plastic bags also. The bags should not be opened until it is time to install the fitting, in order to keep the gasket surface clean and prevent loss of parts.

### Pre-Assembly

Pipe spacers should be clipped onto the carrier (inner) pipe, approximately every three feet from a fitting connection. The spacers need to be installed before the containment (outer) pipe. It is helpful to lay out the system, cut and dry fit the carrier piping. The containment piping and all non-split fittings, such as terminating couplings, must be installed prior to joining the carrier piping. The containment piping can be cut shorter than the carrier pipe because of the deep sockets of the Flo-Safe G fittings. Consult the Flo-Safe, Inc. fitting dimensional drawings for socket depth. This will allow sufficient space for joining the carrier pipe. If an error in calculation should occur, causing the containment pipe to be cut too short, this may be remedied by using the two piece Flo-Safe G coupling. Cut the length of containment pipe in half and reassemble the pipe with the two lengths joined by the coupling. The ends of the containment pipe must be cut squarely and made free of burrs and sharp edges. The pipe ends should be inspected for any cuts or grooves on the surface. Sandpaper should be used to smooth pipe ends. Any grease or fording debris must be cleaned from the end surface. For underground applications, we recommend that the plastic sheet be placed under the area where the fittings will be installed, to help keep the gasket surfaces clean.

### Assembly

Remove the pressure bands from the fittings. Loosen the bands and slide them over the ends of the containment pipes to be connected.

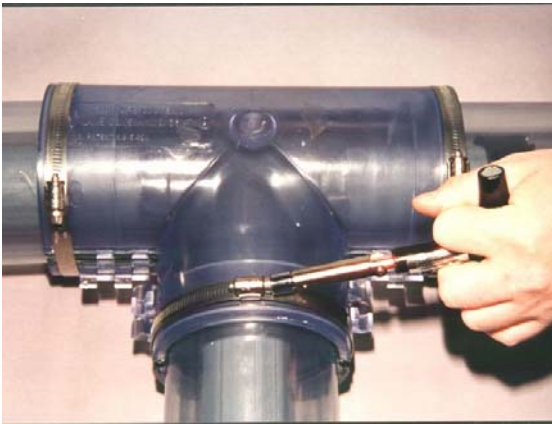


Assemble the half fittings on the pipe, making certain that the pipe is aligned with the pipe stops in the fitting and the bead of silicone is not disturbed.

Slide the bands over the ends of the fitting. It may be necessary to further loosen the bands to get them on the fitting. Alternatively, tighten the bands until the fitting halves are joined on the pipe. Clamp the split fitting joining tool onto the fitting hinges at the flat areas and tap the appropriate pin size into place. Do not clamp the tool onto the rounded pin housing. **NOTE: The tees need to have the long, backside pin installed before the bands are assembled. Be sure to use the proper tool size for installing the pins. (P90000 for 4" and P90001 for 6"). Do not overtighten tool or hinge damage will occur. Also, for wyes, a special "hub Clamp" with black tightening handles should be used. These clamps should be tightened as tight as possible by hand and then an additional one to two full turns with the tightening wrench supplied by FloSafe. (see page 2)**



After all pins are installed, tighten pressure bands to approximately 60in./lbs. torque.



Any non-split fittings, assembled earlier, should also be tightened to approximately 60in./lbs.

## Testing

Flo-Safe G's unique design allows for complete hydrostatic testing of the carrier fittings. After testing the carrier piping, the containment fittings should be assembled and the containment piping tested to insure proper joining. *Remember, as a containment system, the testing is merely to verify the joining integrity should a leak occur. Flo-Safe should only be tested to 5 psi pressure if air tested, and only with Flo-Safe G testing equipment.*



Air tests at 5 psi should not exceed one hour in duration. Do not test until the silicone has cured for a minimum of 24 hours. Severe damage and danger to the installer could result if higher pressures are used. Check all containment piping joints with soap solution while under pressure. If it's necessary to test for a longer period, Flo-Safe, Inc. recommends hydrostatic testing. Extended testing should not exceed four hours. It is necessary to restrain all piping equipment and ambient temperature should be considered.

Flo-Safe G is to be tested as a complete system. If other products are substituted for Flo-Safe G components, such as pipe and fittings, the system may fail and product warranty will be voided.



2850 Fairfax Trafficway.  
Kansas City, KS 66115

Ph# (913) 621-6789      FAX (913) 621-3810

[www.flosafe.com](http://www.flosafe.com)