



**TEESING**



TIME SAVING  
SOLUTION

# FIRE DETECTION SYSTEM

## LEAK TESTING MADE EASY

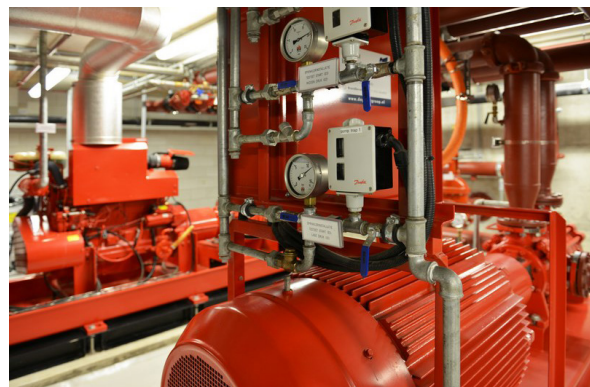
### Customer

De Groot Installatiegroep B.V.  
Fire detection system

### Application

De Groot Installatiegroep designed a fire detection system. The fire detection system is based on the functionality that when a fire occurs, the tubing will melt, cracks and leaks. As a result of the leakage of the tubing, the pressure will drop, and the fire is detected. De Groot Installatiegroep has the system divided into several segments so they can be tested for leaks separately. To test this system in a relatively simple way without the need to replace the couplings after the test, they were looking for an easy to apply solution. Teesing advised the best and easiest solution to implement.

In this application is CU / PVC tubing and LDPE. LDPE is the tube that indicates the fire by melting. For connecting the tubing and the various segments as well as connecting to the compressing unit, Serto brass couplings are used.



**De Groot Installatiegroep**  
Fire detection systems



### Parameters

Medium:	Air
Pressure:	Low
Materials:	LDPE , CU/PVC with brass coupling
Products used:	Serto Brass, LDPE Tubing, CU/PVC Tubing



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## Solution

In this application the use of SERTO couplings are ideal for its mounting/dismounting ability. Initial assembling of the couplings is done in the conventional manner. The coupling is tightened by hand and the nut is 1 3/4 turns tightened with a wrench so the coupling is leak proof. These couplings can be disconnected and a new pre-assembled nut and ferrule can be installed. The couplings just need a simple 1/4 turn to be leak tight and there is no need for Teflon tape or O-rings.

This method provides ease of installation, time saving and above all, material savings.

