



TEST PROJECT / PROJET D'ÉPREUVE

SPRINKLER SYSTEMS

RESEAUX D'EXTINCTEURS

AUTOMATIQUES

POST-SECONDARY /
NIVEAU POSTSECONDAIRE

Part 1: Piping Fabrication (4 Hours)

Competitor is required to properly measure, cut, groove, and install 9 pieces of pipe to connect to water source and drains. Dimensions are to be interpreted on-site. Piping will be 3 parallel 45° runs.

Step 1: Calculate pipe dimensions interpreted from onsite drawings. **STOP for assessment**

Step 1: Measure and cut the 9 pieces of Schedule 10 black steel pipe required with RIDGID #4-S cutters. Three 4", Three 3", and Three 2". **STOP for Assessment**

Step 2: Groove pipe with RIDGID #915 Air Groovers, PT-100A Grooved Pipe Diameter Tape, and prep ends for install. **STOP When ready for installation for Assessment**

Step 3: Install Pipe using Vic-Wrenches. **STOP When done for Assessment**

Part 2: Valve Set-up/Activation/Identification (7 Hours)

Competitor is required to set-up/activate/troubleshoot each Preaction/Dry/Deluge valve properly and efficiently. (7 Valves total, 1 hour each):

Each of the below valves will be set up as either a Deluge Valve, Dry Valve, or Preaction Valve (Non-Interlock, Single-Interlock, or Double-Interlock).

- Reliable Model: DDX
- Tyco Model: DV-5
- Viking Model: G2000P
- Viking Model: F-1
- Victaulic Model: Firelock NXT S/768
- Victaulic Model: Firelock NXT S/769

All operation manuals are available on each manufacturer's respective website.

Step 1: Set-Up valve to full ready status. **STOP when done for Assessment**

Step 2: Activate each valve using all available actuation methods specific to that valve (Manual and/or Detection Circuit). **STOP when all activation methods have been performed for Assessment**

Step 3: Identify components indicated by Judge and explain their operation. **STOP for Assessment**

Step 4: Return valve to initial state. **STOP when finished for Assessment**

Step 5: Repeat for remaining valves.