

Site Preparation Instructions for Installing Ultimo Striker-Receiver Module (SRM)

FASTEST, EASIEST, BEST PERFORMING INSTALLATION
FOR PIPES NPS $\geq 20''$ (DN ≥ 500 mm)

The System must be installed at specific spacing based on pipe size. If the required dimensions and conditions defined below cannot be met, Ultimo Technical Support must be contacted to discuss alternatives and associated performance risks.

Definitions

UPL – Uninterrupted Pipe Length: The minimum length of pipe that is free of all disrupting members that could affect measurement accuracy.

MZ – Measurement Zone: The section of pipe within the UPL where the SRM is located. Requires specific boundaries created by Dynamic Isolators or Rigid Supports.

DI – Dynamic Isolator: Special weight collars mountable on the pipe - used to create the Measurement Zone boundaries.

RS – Rigid Support: Pipe support that prevents pipe movement at points of support and creates Measurement Zone boundaries.

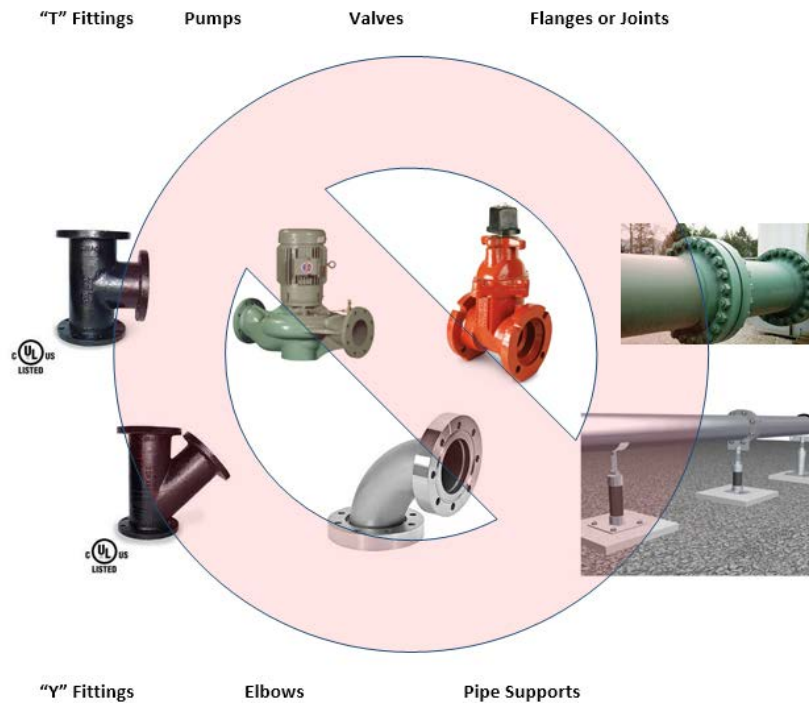
NPS – Nominal Pipe Size: Pipe's ID and OD identifier when imperial units (inches) are used

DN – Diametre Nominel: Pipe's ID and OD identifier when metric units (mm) are used

1. **Minimum Uninterrupted Pipe Length:**
 - a. 150 in. (3.81 m) – steel pipe
 - b. 67 in. (1.7 m) – plastic pipe

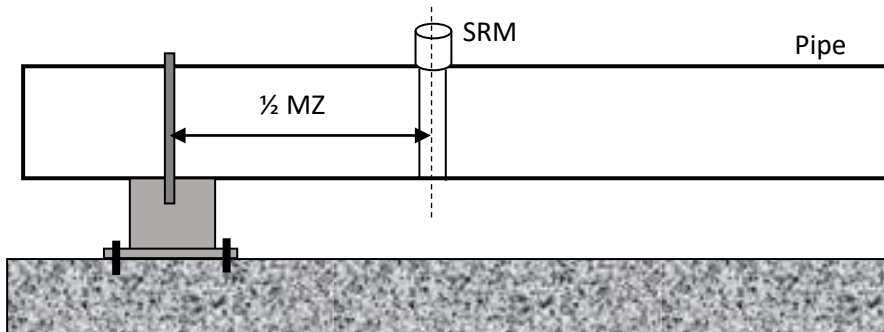
Note: Longer Lengths are always preferred.

Not Allowed in UPL:



Note: All shown pipe members cannot be present inside the UPL segment of the pipe, but they can define the beginning and/or the end of the UPL pipe segment

2. **Find section of uninterrupted pipeline that meets UPL Minimum Length**
3. **Required Measurement Zone (MZ) Length:**
 - a. 90 in. (2.3 m) – steel pipe
 - b. 40 in. (1.0 m) – plastic pipe
4. **Mount SRM in the MZ middle**



EXTERNAL FACTORS:

1. SRM must be within 100 ft. (30m) of DPM to preserve signal strength
2. UPL must be $\geq (10 \times \text{NPS})$ in. away from nearest pump on that pipe line:



3. It is desirable that pipe is U-Bolt clamped to secure support(s), at the end(s) of the UPL to prevent disturbing vibration!

