

Tethered In-Line Inspection

Large Diameter Water Pipeline



Tethered ILI

Cypress In-Line Inspection's large diameter water pipeline inspection system includes electric tow vehicles (ETVs) to pull the geometry and magnetic flux leakage (MFL) inspection units through segments of the pipeline without the need for external equipment. However, some segments of the pipeline may be too difficult to inspect with the standard system. Segments with significant elevation changes or slippery residue in the pipeline may exceed the ability of the ETVs to pull the large diameter inspection systems through the pipe. Cypress offers a tethered configuration of the large diameter water tool for those challenging pipe segments.

The tethered MFL/Geometry inspection system effectively propels the tool without damage to the internal lining. Field validation on mortar lined and coal tar lined pipe have enabled successful inspections with high quality data.

Cypress technicians evaluate the full function of the high-resolution sensor array prior to the pull of each pipeline segment to ensure that full coverage inspection is achieved. Technicians in the pipe communicate with the wireline truck operator to enable safe navigation of the full pipeline segment.

Tool capabilities

- High resolution sensor spacing (1/4") and high-- speed sampling frequency (1400 Hz)
- Size configurations ranging from 48" to 144"
- Inspection through internal linings over 1" thick with greater capability in custom magnetizer configurations
- Tool can be installed through access points as small as 16" diameter

