

POLYETHYLENE PIPE INSPECTION USING THE UNIQUE POLYTEST™ SYSTEM

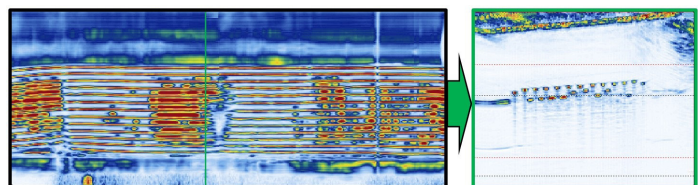
AN INNOVATIVE FIELD INSPECTION SYSTEM FOR VOLUMETRIC NON-DESTRUCTIVE TESTING OF ELECTROFUSION AND BUTT FUSION JOINTS IN POLYETHYLENE (PE) PIPES.



The PolyTest system

Purpose-built and optimised equipment

- Bespoke phased array ultrasonic probes
- Simple, modular scanner for pipes with outside diameters from 90–900mm and wall thicknesses from 8–72mm (the system can be adapted for pipes outside these ranges)
- Membrane water wedges which conform to a variety of surface geometries
- Fully portable system allowing in-trench inspection



Lack of fusion defects in an 'in-service' PE electrofusion joint

Benefits

- Increased confidence in the integrity of PE welded joints
- Compliant with all international and American standards
- Validated by structural assessment data developed through long-term performance testing
- Applicable to gas, water and nuclear industries
- Product support website at www.polytestsystem.com



On-site PE pipe joint inspection

Capabilities

- Proven capability to detect: lack of fusion, contamination, voiding, cold fusion, pipe under-penetration and more
- Immediate results and permanent records
- Critical flaw sizes and acceptance criteria have been determined for selected welding procedures and materials