

Detection and sizing capabilities

Sizing accuracy is dependent on external factors, such as contamination of pipeline and operational conditions or heavily patterned seamless pipe. The below table specifies the sizing accuracy in terms of percentage of wall thickness (t) at 80% confidence level for welded pipe and seamless pipe.

Sizing accuracy in welded pipe

Feature	Minimum depth at 90% POD	Depth sizing accuracy	Length sizing accuracy	Width sizing accuracy
General metal loss	5%	± 10%	± 10mm	± 10mm
Pitting	10%	± 10%	± 10mm	± 10mm
Axial grooving	10%	± 10%	± 10mm	± 10mm
Circumferential grooving	10%	± 10%	± 10mm	± 10mm
Axial slotting	20%	± 10%	± 10mm	± 10mm
Circumferential slotting	10%	± 10%	± 10mm	± 10mm
Corrosion near girth welds	20%	± 10%	± 10mm	± 20mm

Sizing accuracy in seamless pipe

Feature	Minimum depth at 90% POD	Depth sizing accuracy	Length sizing accuracy	Width sizing accuracy
General metal loss	15%	± 10%	± 10mm	± 10mm
Pitting	15%	± 10%	± 10mm	± 10mm
Axial grooving	15%	± 10%	± 10mm	± 10mm
Circumferential grooving	15%	± 10%	± 10mm	± 10mm
Axial slotting	20%	± 20%	± 10mm	± 10mm
Circumferential slotting	15%	± 10%	± 10mm	± 10mm
Corrosion near girth welds	20%	± 20%	± 10mm	± 20mm

Identification of features

Feature	Yes POI >90%	No POI <50%	Possibly 50% < POI < 90%
Internal / external discrimination	✓		
Metal loss feature in body of pipe	✓		
Metal loss feature in weld area	✓		
Metal loss pipe mill feature	✓		
Mid wall feature			✓
Grinding	✓		
Gouging	✓		
Dent / Dent with metal loss	✓		
Spalling			✓
Axial crack		✓	
Circumferential crack			✓
Eccentric pipeline casing	✓		
Fitting	✓		
Sleeve	✓		
Valve	✓		
Tee	✓		
Bends (5D or less)	✓		
Close metal object	✓		
Clock position of lonaseam weld	✓		
Girthweld	✓		
Patch	✓		