

DESIGN

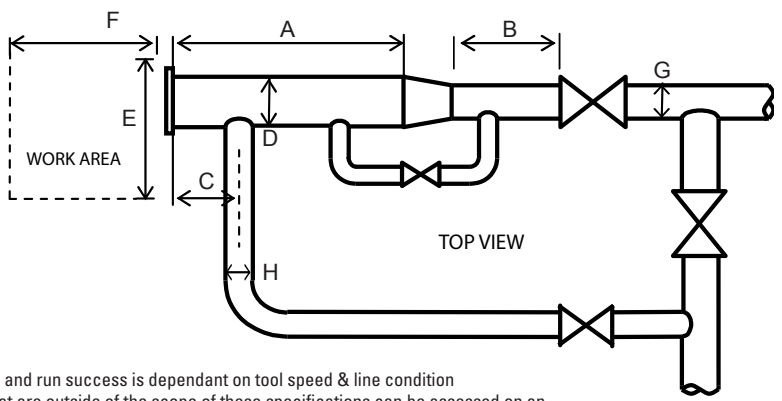
Tool Attributes	
Odometer Channels	2
Odometer Resolution	0.100 in (2.54 mm)
Data Storage	Flash Data Storage, expandable
Inertial Mapping	GIS/GPS Mapping & Geospatial Reporting

DATA SETS (# Sensors)		OPERATIONAL	
Metal Loss	8 inch #56	Max. Pressure	1650 psi (11376 kPa)
	10 inch #56	Temp. Range	32 to 140 °F (0 to 60 °C)
IDOD	28	Velocity	≈ 0.1 to 8 mph (0.04 to 3.6 m/s)
Caliper	28	Required Differential Pressure	25 to 80 psi (172 to 552 kPa)

PIPELINE GEOMETRY REQUIREMENTS		in (mm)
Local Min. Cross Sectional Diameter (in straight pipe - Dent, Buckle, etc.)		6.90 (175.26)
Feature Bore Restriction Diameter (Tee, Valve, etc.)		7.37 (187.20)
Min. Bend Radius		3D in 8 inch; 1.5D in 10 inch
Min. Bend Separation		5.38 (136.65)
Min. Tee Separation (centerline to centerline)		30.00 (762.00)
Max. Passable Wall Thickness		0.625 (15.86)
Max. Recordable Wall Thickness		0.562 (14.27)

IMU SPECIFICATIONS @ 3 – 8 mph / (1.3 to 3.6 m/s)		DIMENSIONS	
	Gyros		TOOL RANGE @ 3 mph (1.3 m/s)
Latitude	±1 m, 1 σ	Length	110 in (2794 mm)
Longitude	±1 m, 1 σ	Weight	242 lb (110 kg)
Elevation	±1 m, 1 σ		
	Accelerometers		* Run Time 77 hours
	Additional information available upon request		

SUGGESTED MINIMUM TRAP DIMENSIONS in (mm)								
Traps	A	B	C	D	E	F	G	H
Launcher	122 (3099)	55 (1397)	18 (457)	12 (305)	58 (1473)	182 (4623)	8 (203)	4 (102)
Receiver	122 (3099)	122 (3099)	18 (457)	12 (305)	58 (1473)	182 (4623)	8 (203)	4 (102)



- Notes:**
- Data quality and run success is dependant on tool speed & line condition
 - Pipelines that are outside of the scope of these specifications can be assessed on an individual basis; please contact Enduro.
 - Tool design may vary from image above.

* Increased run time available with additional battery packs
Data is subject to change without notice | 8x10" DfL 0700-4B-18195 Rev. 4
11/6/2015 - 0700-19-15863 rev 5

REPORTING

Metal Loss	ERW	Seamless
Min. Depth Sizing (POD 90%)	10%	15%
Sizing Accuracy - Depth	± 10% (.10t)	± 15% (.15t)
Sizing Accuracy - Length	± 0.50 in (13 mm)	
Geometry Data		
Reporting Threshold	0.50% of Pipe O.D. (0.06 in)	
Sizing Accuracy - Depth	0.06 in (1.52 mm)	

- Location Accuracy**
- Axial: ± 0.01% within a joint
 - Circumferential: ± 10°
- Bend Data**
- Angle Accuracy ± 2°
 - Direction ± 10°
 - Radius ± 0.2D

Notes:

