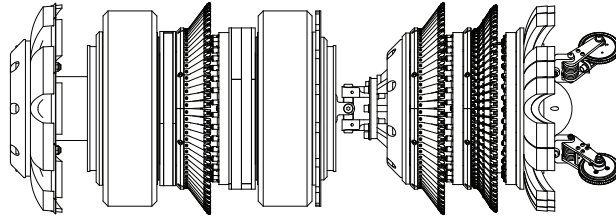




DfL™ DIGITEL FLUX LOGGER



24 inch - Technical Specifications

DESIGN

Tool Attributes

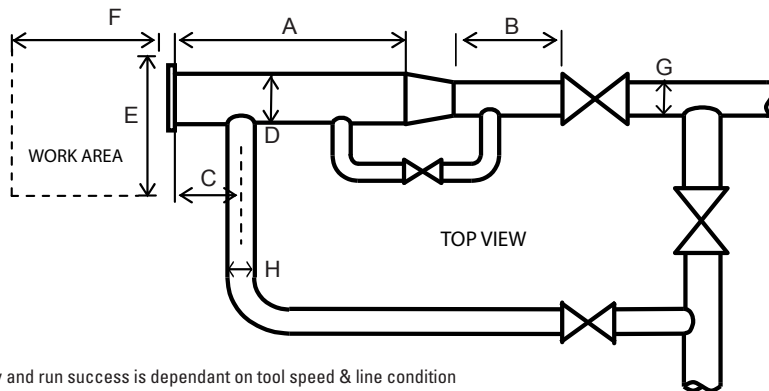
Odometer Channels	2
Odometer Resolution	0.100 in (2.54 mm)
Data Storage	Flash Data Storage, expandable
Inertial Mapping	GIS/GPS Mapping & Geospatial Reporting

DATA SETS (# Sensors)		OPERATIONAL	
Metal Loss	168	Max. Pressure	1650 psi (11376 kPa)
Residual	168	Temp. Range	32 to 140 °F (0 to 60 °C)
IDOD	84	Velocity	≈ 0.1 to 8 mph (0.04 to 3.6 m/s)
Caliper	84	Required Differential Pressure	5 to 25 psi (34 to 172 kPa)

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	67 in (1702 mm)
Longitude	±1 m, 1 σ	Weight	1272 lb (577 kg)
Elevation	±1 m, 1 σ		* Run Time 42 hours
	Accelerometers		
	Additional information available upon request		

PIPELINE GEOMETRY REQUIREMENTS	in (mm)
Local Min. Cross Sectional Diameter (in straight pipe - Dent, Buckle, etc.)	19.20 (487.68)
Feature Bore Restriction Diameter (Tee, Valve, etc.)	21.50 (546.10)
Min. Bend Radius	1.5D
Min. Bend Separation	12.00 (304.80)
Min. Tee Separation (centerline to centerline)	60.00 (1524.00)
Max. Passable Wall Thickness	1.250 (31.75)
Max. Recordable Wall Thickness	0.750 (19.05)

SUGGESTED MINIMUM TRAP DIMENSIONS in (mm)								
Traps	A	B	C	D	E	F	G	H
Launcher	79 (2007)	34 (864)	18 (457)	26 (660)	72 (1829)	139 (3531)	24 (610)	6 (152)
Receiver	79 (2007)	79 (2007)	18 (457)	26 (660)	72 (1829)	139 (3531)	24 (610)	6 (152)



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 | 24" DfL 0700-4B-20888 Rev. 4
11/6/2015 - 0700-19-09083 rev 3

24 inch

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. (0.12 in)	
Sizing Accuracy - Depth	0.12 in (3.05 mm)	

Location Accuracy

Axial: ± 0.01% within a joint
Circumferential: ± 10°

Bend Data

Angle Accuracy ± 2°
Direction ± 10°
Radius ± 0.2D

Notes:



ENDURO
PIPELINE SERVICES, INC.