

## **LRW Application Data Sheet**

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<b>Customer Inform</b>	ation		
Date:			
Name:		_ Company:	
Street address:			
City:		State: Pos	tal code:
Country:		Telephone:	
Email:			
End user name an	d location:		
Project name:		Project	ct deadline:
	following fields to the bes	·	
Pipeline and insta	allation type (please spe	ecify units)	
Pipeline Diameter:	Pipeline se	chedule: ANSI	rating:
Best for LACT units 3" and above	Best for large diameter pipelines	Best for large diameter pipelines	Best for 2" LACTs and capacitance probe replacement
Fixed Insertion 1.25" NPT Flange size: Flange type: Shaft Length*:	Flanged Insertable Flange size: Flange type: Shaft Length*:	2" Threaded Insertable Shaft Length*:	Flow Through Flange size: Flange type: Pipe diameter: Face to face dimension

# Water Cut Range (%):

Additions: Alternate Material (316SS Standard):

<sup>\*</sup> Standard shaft lengths for insertable models are 24" and 30. See Shaft Length Calculator on page 3 of this document to determine appropriate length.



Is there gas in the process? Y N

# **LRW Application Data Sheet continued**

### Flow Conditions

\* LACT units 6" and below please skip this page

Please note: proper mixing in accordance with API Chapter 8.2 is required for accurate LRW performance. In order for KAM to properly quote an LRW, please fill out all flow conditions fields to the best of your ability. Should pipeline mixing be required, the quote will include an appropriate solution to fulfill this requirement (SMS, SMP, or ML).

If Yes, is it of a consistent volume? Y N					
	Minimum	Normal	Maximum	Units	
Water cut range:					
Flow rate:					
Oil density or gravity range:					
Viscosity:					
Temperature:					
Operating pressure:					
Salinity:					
Max. pressure drop allowed (If	applicable):				
Flow Orientation:					
Please list all devices which	will interface with	the LRW:			
Installed under process abov (If yes, a KAM IT Insertion Tool will			quote)		
Additional Notes:					



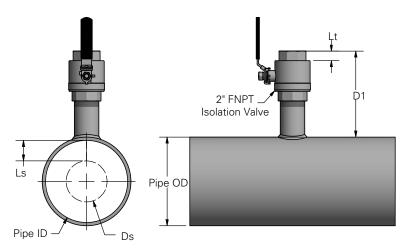


#### **Shaft Calculator**

Determine the minimum shaft length for proper insertion in the pipeline. Off-the-shelf lengths are 20", 24" y 30" for insertable models. Fixed insertion models are 7" and 12".

## **LRW 2"MNPT Insertable**

- D1 (See drawing)
- + Pipe Wall Thickness
- + \_\_\_\_ Ls (See drawing)
- Probe Factor (1.65)
- + \_\_\_\_ Seal housing Factor (7.04)
- Lt (See drawing)
- Total / min. shaft length



#### Leyend:

D1: Port Length + Valve Length

Lt: 2-NPT Thread Engagement (Range: 0.436 to 0.756")

Ls: Pipe ID x 0.25 (Sampling Area Length)

Ds: Pipe ID x 0.5 (Sampling Diameter)

\*For 4" Connection Contact Kam

Ls: Pipe ID x 0.25 (Sampling Area Length) Ds: Pipe ID x 0.5 (Sampling Diameter)

For NPT, thread engagement needs to be considered in length measurement.

### **LRW Flanged Insertable**

- Lp (See drawing)
- + \_\_\_\_ Lv (See drawing)
- + \_\_\_\_ Lg x 2 (See drawing)
- + \_\_\_\_ Pipe Wall Thickness
- + \_\_\_\_ Ls (See drawing)

300#

600#

900#

- + LRW Factor (See below)

1.12

1.50"

2.00"

1.37"

1.75"

2.00"

Seal H	ousing Fa	actor (7.54	")		<u>l</u> g ∕− Mai	n Pipe
Total	/ min. sha	aft length	Pipe ID Ds			Pipe OI
LRW Factors			Leyend:	Typical Valve Lengths (Lv)		
Class Rating	2" Size	3" Size	Lp: Port Length Lv: Valve Length	Class Rating	2" Valve	3" Valv
150#	1.00"	1.20"	Lg: Gasket Width (Typical 0.175")	150#	7.00"	8.00

Typical Valve Lengths (Lv)				
Class Rating	2" Valve	3" Valve		
150#	7.00"	8.00"		
300#	8.50"	11.12"		
600#	11.0"	14.00"		
900#	14.50"	15.25"		

Pipe OD