

KAM® OOD Application Data sheet

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Customer Information		
Date:		
Name:	Company:	
Street Address:		
City: S	tate:	Postal code:
Email:		
End user name and location:		
Project name:	Projec	ct deadline:
Please fill out the following fields	to the best of your ability.	
Describe the application (e.g. salty	vater disposal, leak detection, c	oolant line, etc.):
Laboratory test method used to co	orrelate with the KAM® OOD: _	
Target oil: Crude oil Fuel oil	□ Lube oil □ Diesel □ Other	(Specify):
Pipeline and installation type (p	lease specify units)	
Pipeline Diameter:	Pipeline schedule:	ANSI Rating:
Flanged Insertable Flange size:	2"MNPT Insertable of	FT Flow Through
Flange size. Flange type: Shaft Length*	Shaft Length*: Quantity req	MNPT: Quantity req

Wetted materials:

Quantity req.___

Additions:

Local Display: Yes \square No \square Marine coat: Yes \square No \square AC Power Adapter: Yes \square No \square NACE: Yes \square No \square

 $^{{}^{*}\}text{See}$ Shaft Length Calculator on page 3 of this document to determine appropriate length.



Process Conditions

Please note: proper mixing is required for accurate OOD performance. In order for KAM to properly quote an OOD, 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).

	Minimum	Normal	Maximum	Units
PPM range				
Flow rate				
Oil density or gravity rang	e*			
Oil viscosity*				
Operating temperature				
Operating pressure**				
Salinity				
Ambient temperature				
*At operating temperature ** If above 110 PSI, a KAM IT Ins	sertion Tool will be required for	installation and included in	quote	
Required accuracy (min. 5p	opm):			
Pipe flow: Vertical up □	Vertical down □	Horizontal □		
Will the meter's electronic: (If yes, a KAM Sunshade m			eratures? Yes 🗆 No 🗅	
Additional Details				
Commissioning & startup a	assistance: Yes 🗆 No 🗅			
If yes, please specify:				
FAT test required: Yes □ N	0 🗆			
Certifications required (if a	pplicable):			
Comments / Additional In	formation:			



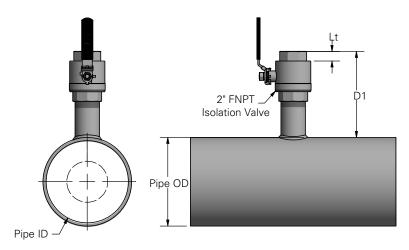
Shaft Calculator

Determine the minimum shaft length for proper insertion in the pipeline.

Off-the-shelf lengths are 20", 24", 30", 36" for insertable models. Fixed insertion models are 7" and 12".

OOD 2"MNPT Insertable

- ____D1 (See drawing)
- + ____ Pipe Wall Thickness
- + ____ OOD Factor (3.1")
- + ____ Seal Housing Factor (5.95")
- ____Lt (See drawing)
- = Total / min. shaft length



Leyend:

D1: Port Length + Valve Length

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

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

OOD Flanged Insertable

- Lp (See drawing)
- + ____ Lv (See drawing)
- + ____ Lg x 2 (See drawing)
- + ____ Pipe Wall Thickness
- +____OOD Factor (See below)
- + Seal Housing Factor (6.45")
- Total / min. shaft length

i	
Lv	
Lp	Lg Main Pipe
	Pipe OD

Pipe ID — Leyend:

Lp: Port Length

Lv: Valve Length

Lg: Gasket Width (Typical 0.175")

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"		

OOD Factor				
Class Rating	2" Size	3" Size		
150#	2.30"	2.50"		
300#	2.42"	2.67"		
600#	2.80"	3.05"		
900#	3.30"	3.30"		

OOD Factor includes a 1" insertion distance from the Pipe ID

For 4" Connection Contact Kam