
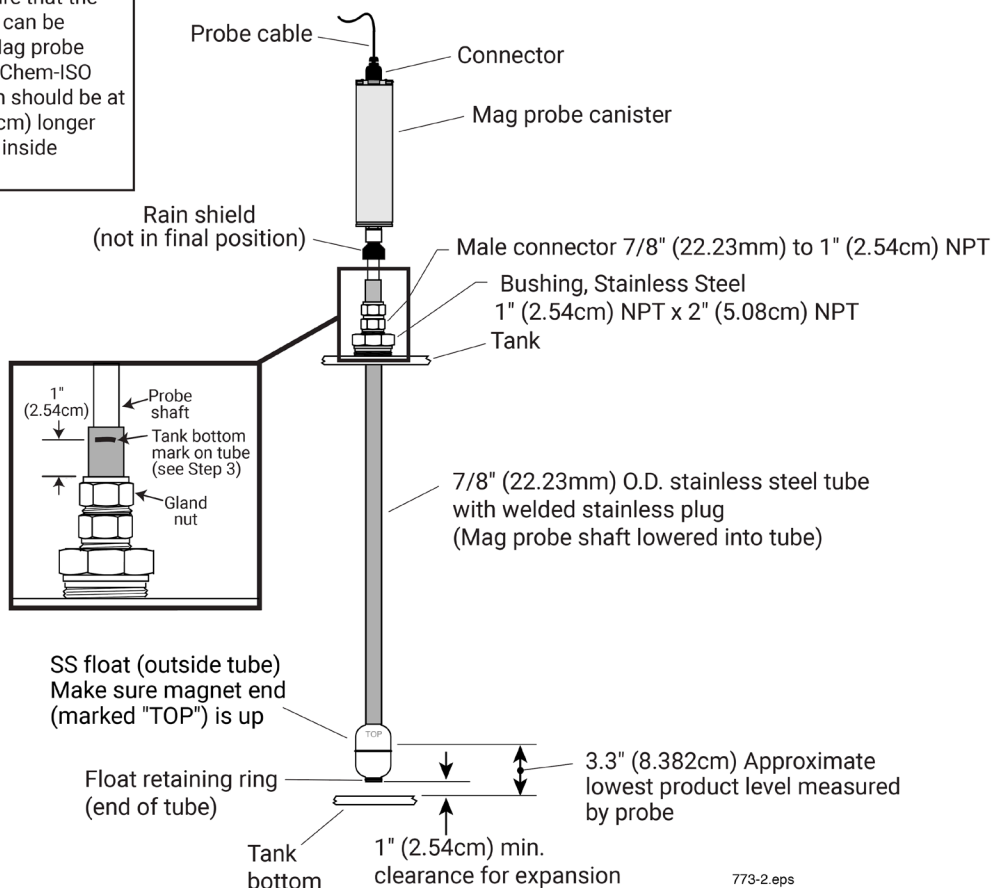


Probe Description & Product Application	Mag Plus In-Tank Probe for Monitoring Chemical Products in both USTs and ASTs					
Specific Products Monitored / Product Compatibility	Part # & Description	Approved Products	Monitoring Functionality Options			
	846397-6XX Stainless Steel (SS) In-Tank Probe with High Grade Polymer (HGP) Canister No Water Detection, UL	Acetone	No Leak Detection / Inventory Only			
		Xylene				
		Acetate (Ethyl, Butyl, n-Propyl)				
		Dichloromethane				
		Petroleum Naphtha				
		Isopropyl Alcohol				
		Dimethyl formamide				
		1-Butyl (butyl alcohol)				
		Butanol				
		Methyl Ethyl Ketone				
		Ethyl Benzene				
Methyl Isobutyl Ketone						
Console Compatibility	Maximum Probes / Console	Probe Interface Modules				
		Module Part #	Module Description	# of Modules per Console	# of Probe Inputs per Module	Availability
TLS-450PLUS (8600 Series)	64	332812-001	Universal Sensor Module (USM) Interface for Probes, Sensors, and DPLLD	Up to 4 - TLS-4XX	16	Sold Separately (either Factory Installed or as a Spare Module)
TLS4i (8601 Series)	4	No module required, probe input capability factory installed				
TLS4c (8601 Series)	2					
TLS-350/R/PLUS	16	329356-002	4-Input Probe Interface Module	4	4	Sold Separately (either Factory Installed or as a Spare Module)
TLS-300i	4	No module required, probe input capability factory installed				
TLS-300C	2					

Float Installation Kits	Part # & Description	Float Size	Cable Lengths	Min/Max Probe Length	Min/Max Chemical Tank Diameter
	331824-XXX Chemical-ISO Probe Inventory Only Installation Kits	2" (5.08cm)	5' (1.5m), 10' (3.05m), 20' (6.1m)	48" (1.2m) - 144" (3.66m)	42" (106.68cm) - 138" (350.52cm)
Other Installation Accessories	N/A				
Specifications	Product	Water			
Measurement Accuracy	+/- 0.0300" (0.762mm)	N/A			
Resolution - One Sample Reading	+/- 0.002857" (0.072571mm)	N/A			
Minimum Measurement - 2" (5.08cm) Float Kits	3.3" (8.382cm)	N/A			
Operating (Working) Temperature Range	-40 to +122°F (-40 to +50°C)	N/A			
Third Party Evaluation / Agency Listings & Links	http://www.nwglde.org/evals/veeder_root_j.html				
Product Installation Guide Link	https://www.veeder.com/us/technical-document-library				

Example Installation

*NOTE: to ensure that the probe/ tube kit can be installed, the Mag probe length and the Chem-ISO probe kit length should be at least 6" (15.24cm) longer than the tank's inside diameter.



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Example Illustrations

Illustrations used in this guide for example sensor installations may contain components that are customer supplied and not included with the sensor. Please check with your Veeder-Root Distributor for recommended installation accessories.

Third Party Evaluations

Third party evaluations of the Veeder-Root sensors contained in this application guide can be found under the Veeder-Root vendor name on the National Work Group on Leak Detection Evaluations (NWGLDE) website:

<http://www.nwglde.org>

Media-Isolated Kits for Magnetostrictive Plus Probes

Enhance your existing Magnetostrictive (MAG) Plus Probe to monitor chemical, LPG, and DEF tank inventories

Eliminate Tank Depressurizing & Disturbance of Liquid Product

The Media-Isolated (ISO-Probe) Kits allow chemical, Liquid Petroleum Gas (LPG), and Diesel Exhaust Fluid (DEF) tank owners to accurately measure inventory levels using an automatic tank gauge.

The primary benefit of this adapter kit design is the user's ability to remove the probe shaft from its stainless steel jacket for maintenance without disturbing the tank's liquid product contents, or in the case of a LPG customer, having to first depressurize the tank.

► WHY MEDIA-ISOLATED KITS?

When a solution for long-life monitoring in a wide variety of approved alternative fluids and pressurized environments is required, depend on the non-corrosive, stainless steel tubing (Type 316) design of the ISO-Probe Kits. Additionally, take advantage of the MAG Plus Probe design features when using the ISO-Probe Kits with the MAG Plus Inventory Only Probes:

- Magnetostrictive measurement technology is compatible with current TLS consoles
- Five-point temperature sensing provides extremely accurate inventory control
- MAG Plus Probes support a wide operating temperature range from -40°F to 158°F (-40°C to 70°C)



The Chem-ISO Kit for Chemical & DEF Tank Applications

- Stainless steel floats can be used in all NEC Class 1, Group D liquids with environment specific gravity of 0.70 or above
- Capable of reading product level down to 3.3 in (8.38 cm)
- Allows probe to easily fit into a 2 in (5.08 cm) NPT tank opening
- Helps prevent cross-contamination and chemical exposure to service personnel when conducting maintenance on the probe

The LPG-ISO Kit for LPG Tank Applications

- Capable of reading product level down to 3.25 in (8.26 cm)
- Allows probe to easily fit into a 1.5 in (3.81 cm) NPT tank opening
- Improves safety practices by reducing operator exposure to gaseous fumes during maintenance operations



SPECIFICATIONS

Media-Isolated Kits for Magnetostrictive Plus Probes

CHEM-ISO Probe Kit Ordering Information – EX: 0331824-101

CHEM-ISO Probe Kit Part No.	Cable Length Kit Item #s			Chemical/DEF Tank Diameter	Minimum Required Probe Length
	-5 ft	-10 ft	-20 ft		
0331824	-101	-201	-301	42" or smaller	48"
0331824	-102	-202	-302	54"	60"
0331824	-103	-203	-303	58"	64"
0331824	-104	-204	-304	66"	72"
0331824	-105	-205	-305	78"	84"
0331824	-106	-206	-306	84"	90"
0331824	-107	-207	-307	90"	96"
0331824	-108	-208	-308	102"	108"
0331824	-109	-209	-309	114"	120"
0331824	-110	-210	-310	120"	126"
0331824	-111	-211	-311	126"	132"
0331824	-112	-212	-312	138"	144"
0331824	-199	-299	-399	Custom*	6" + CHEM Tank Diameter*

LPG-ISO Probe Kit Ordering Information – EX: 0333083-101

LPG-ISO Probe Kit Part No.		Cable Length Kit Item #s		LPG-ISO Tank Diameter	Minimum Required Probe Length
1-1/2" Dia. Tank Interface	2" Dia. Tank Interface	-5 ft	-10 ft		
0333083	0333082	-101	-201	42" or smaller	48"
0333083	0333082	-102	-202	54"	60"
0333083	0333082	-103	-203	58"	64"
0333083	0333082	-104	-204	66"	72"
0333083	0333082	-105	-205	78"	84"
0333083	0333082	-106	-206	84"	90"
0333083	0333082	-107	-207	90"	96"
0333083	0333082	-108	-208	102"	108"
0333083	0333082	-109	-209	114"	120"
0333083	0333082	-110	-210	120"	126"
0333083	0333082	-111	-211	126"	132"
0333083	0333082	-112	-212	138"	144"
0333083	0333082	-199	-299	Custom*	6" + LPG Tank Diameter*

* Tank diameters not shown in the table above are considered custom. Custom length probes must be ordered in 1 inch increments. Veeder-Root does not accept return of custom length probes.

Ordering Notes:

1. The ISO-Probe Kits do not include the MAG Plus Probe; the corresponding length MAG Plus Probe must be ordered separately
2. The ISO-Probe Kit and the MAG Plus Probe length must be at least 6 inches longer than the tank diameter

► BUILDING AN INTEGRATED DEF MANAGEMENT SYSTEM

Integrating your site with Veeder-Root's all-inclusive DEF management system gives operators the power to fight back against erratic leaks, messy cleanups, and temperature induced product degradation, associated with other DEF handling systems. The ISO-Chem Probe Kit protects probes and users from contact with diesel exhaust fluid.

