

Mag-FLEX Probe Low Level Water Float Kit

Installation Guide

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DAMAGE GOODS/LOST EQUIPMENT

Thoroughly examine all components and units as soon as they are received. If any cartons are damaged or missing, write a complete and detailed description of the damage or shortage on the face of the freight bill. The carrier's agent must verify the inspection and sign the description. Refuse only the damaged product, not the entire shipment.

VR must be notified of any damages and/or shortages within 30 days of receipt of the shipment, as stated in our Terms and Conditions.

VEEDER-ROOT'S PREFERRED CARRIER

1. Fax Bill of Lading to V/R Customer Service at 800-234-5350.
2. Call V/R Customer Service at 800-873-3313 with the specific part numbers and quantities that were received damaged or lost.
3. VR will file the claim with the carrier and replace the damaged/missing product at no charge to the customer. Customer Service will work with production facility to have the replacement product shipped as soon as possible.

CUSTOMER'S PREFERRED CARRIER

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2. Customer may submit a replacement purchase order. Customer Service will work with production facility to have the replacement product shipped as soon as possible.
3. If "lost" equipment is delivered at a later date and is not needed, VR will allow a Return to Stock without a restocking fee.
4. VR will NOT be responsible for any compensation when a customer chooses their own carrier.

RETURN SHIPPING

For the parts return procedure, please follow the instructions in the "General Returned Goods Policy" pages of the "Policies and Literature" section of the Veeder-Root North American Red Jacket Mechanical Products Price Book. Veeder-Root will not accept any return product without a Return Goods Authorization (RGA) number clearly printed on the outside of the package.

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Introduction

Instructions for installing the Low Level Water Float kit onto a Mag-FLEX probe are described in this document.

NOTE For retrofit installations, the Mag-FLEX probe must be removed from the tank following the instructions in Veeder-Root manual 577014-042 before installing the Low Level Water Float kit.

Recommended Tank Opening Sizes

The Mag-FLEX Probe has a weight and magnet at the base of the probe to give stability, suitable for use in a wide range of products and available with or without water detection. The Mag-FLEX Probe with standard water float uses a process connection requiring a 1-1/2" tank entry point with a BSP thread. Table 1 lists minimum tank opening required for the Veeder-Root Mag-FLEX probe with the standard water float and with the optional low level water float.

Table 1. Dimensions for Mag-FLEX Probe Tank Opening

V-R Water Float	V-R Water Float OD inch (mm)	Recommended Tank Opening Size	
		inch	mm
Standard	1.7 (43)	2	50
Low Level	3.8 (96.52)	4	100

Kits

330020-776 Kit - Low Level Water Float (Gasoline/E10)

- Low Level Water Float (Gasoline / E10), Qty. 1
- Probe Tank Wall Guide Assembly, Qty. 1
- Mag Flex Probe Low Level Float Kit Installation Guide, Qty.1

330020-777 Kit - Low Level Water Float (Diesel)

- Low Level Water Float (Diesel), Qty. 1
- Probe Tank Wall Guide Assembly, Qty. 1
- Mag Flex Probe Low Level Float Kit Installation Guide, Qty.1

Related Manuals

- 577013-623 TLS-3XX Consoles Setup Manual
- TLS-450 Online Help - Touch Screen Path To Probe Float Setup: Home>Setup>Devices>Probes
- TLS4 Online Help - Touch Screen Path To Probe Float Setup: Home>Menu>Setup>Devices>Probe
- 577014-042 Mag-FLEX Probe Installation Manual

Low Level Water Float Installation Procedure

NOTE The Low Level Water Float (LLWF) must be installed on the Mag-FLEX probe before the Probe Tank Wall Guide.

1. Remove the LLWF and two piece adapter from the shipping carton.
2. Slide the LLWF over the Mag-FLEX probe's weight (views 1 and 2 in Figure 1).

- Place half of the adapter around the stainless steel ball float. Take the remaining half of the adapter and place it around the ball float making sure to align the pins and holes on the two adapter halves. Once aligned, squeeze the two halves together securing the ball float inside the adapter (views 3 and 4 in Figure 1).
- Slide the SS ball assembly down into the top of the LLWF until the six latches around the Adapter snap into the top of the LLWF housing (view 5 in Figure 1).

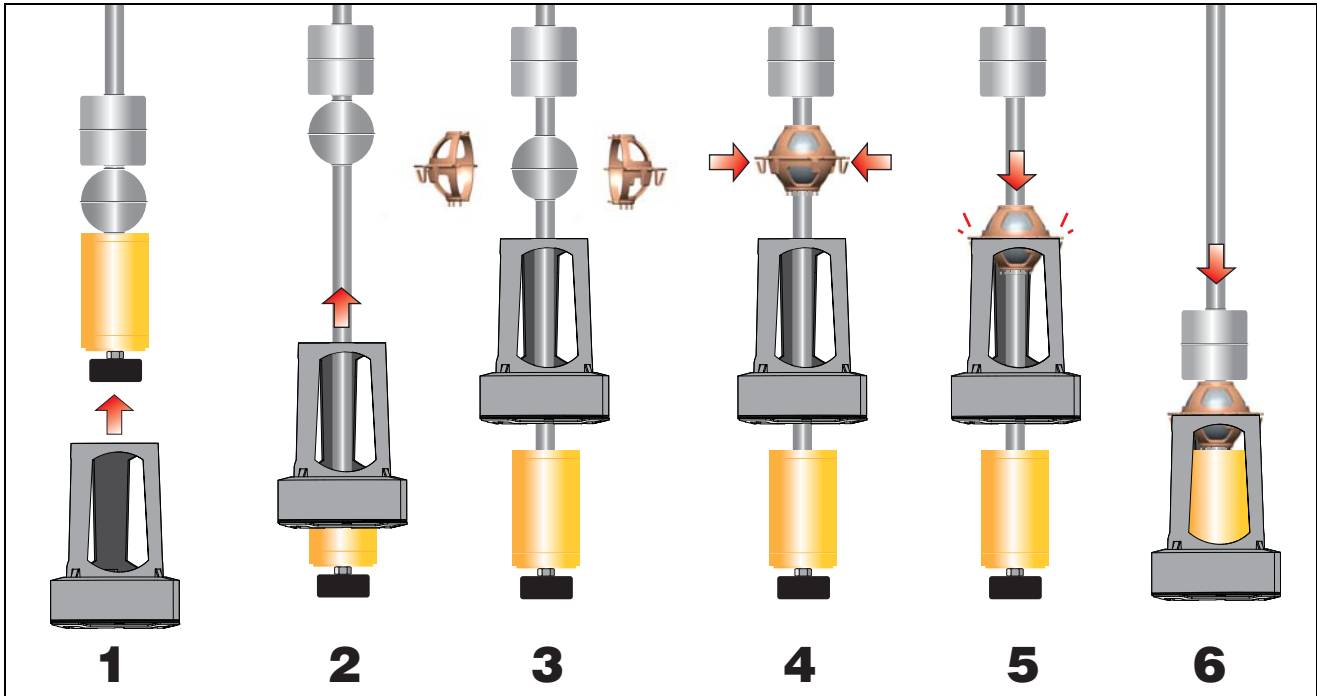


Figure 1. Installing The Low Level Float Assembly

- Visually inspect the six latches on the adapter to ensure they are fully seated under the flange of the LLWF housing. Failure to do so could result in loss of low level water detection (see Figure 2).

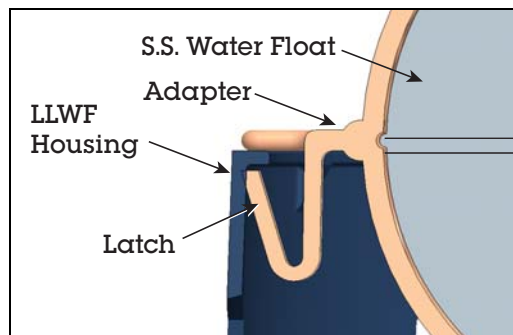


Figure 2. Correct Adapter Latch Position Under LLWF Housing Flange

- Pull up on the Adapter. The Adapter should not separate from the LLWF housing.
- Gently lower the LLWF assembly down against the weight (view 6 in Figure 1). Notice the six standoff pins beneath the adapter that prevent the float from contacting the weight.

Tank Wall Guide Installation Procedure

1. Remove the existing black cup from around the magnet beneath the weight. Be careful not to damage the magnet in doing so.
2. Remove the probe Tank Wall Guide from the shipping container (Figure 3).

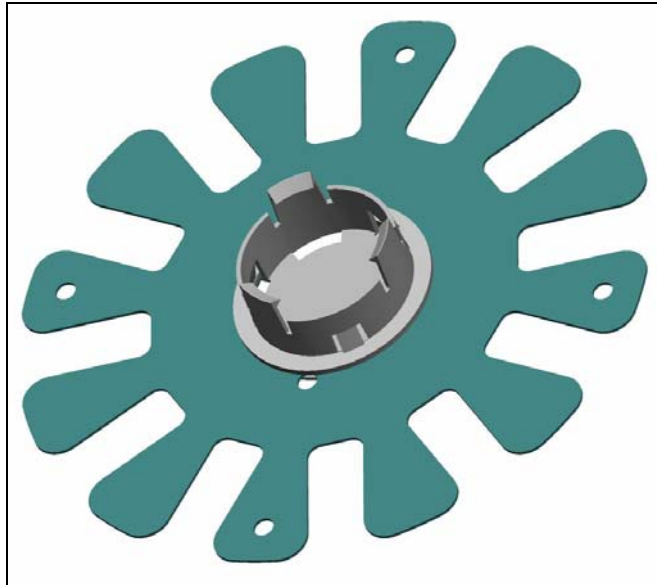


Figure 3. Tank Wall Guide

3. Slide the cup of the probe Tank Wall Guide up onto the magnet ensuring the three flanged extensions of the cup snap over the top of the magnet.
4. The newly assembled LLWF and Tank Wall Guide can now be lowered into the tank. Please refer to the Veeder-Root manual 577014-042 for the correct installation and handling procedures. NOTE: The resistance felt between the Tank Wall Guide and the riser pipe is normal.

TLS Console Setup Procedure

Under In-Tank Setup, go to **Float Size** and choose **Custom** then enter each setting from the table below:

Water Offset	Fuel Offset	Invalid Fuel	Water Minimum
-6.9 inches (-175mm)	-0.88 inches (-22.35 mm)	3.04 inches (77.22 mm)	1.378 inches (35.00 mm)

NOTE Custom float sizes are not supported in the TLS2 console.

