



# GEARBOX & RESERVOIR

## Oil Sampling



## Gearboxes & Reservoirs

Reliable samples are a prerequisite for any successful oil analysis program. These samples represent the true condition of the equipment. They're taken while the machine is running and they're taken from the same spot in the active zone every single time.

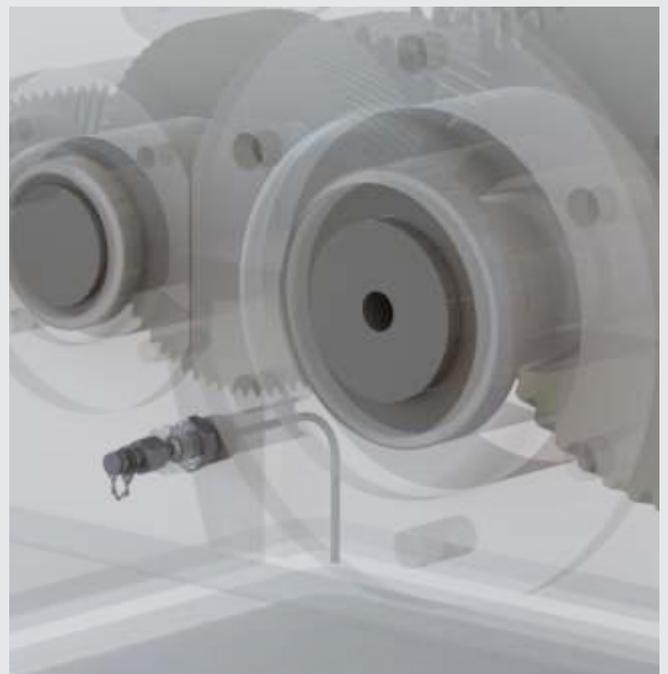
When it comes to getting these proper samples out of gearboxes and reservoirs, the best method is the use of a sampling valve and tube. Why?

First, sampling gear oil from the bottom of the housing or sump is not recommended. As this is where the particles tend to settle and can produce elevated or false readings. For the most accurate readings, draw oil from the middle of the oil bath where the oil is active.

For the most representative samples, a permanent sampling tube is necessary. The tube can be installed and bent to reach the active zone from a variety of different ports.

Additionally, the permanent sampling tube will allow samples to be drawn from the same location each time. This is important to avoid sample re-takes knowing the results are more reliable and trendable over time.

Checkfluid has designed a line of sampling tubes featuring our high flow L Series Valve for quick and easy oil sampling. These valves allow companies to take reliable oil samples from their gearboxes and/or reservoirs 80% faster than other sampling methods.



# THE LT SAMPLING VALVE

Eliminate the safety risk of inserting flexible plastic tubing into equipment with the LT High Flow Series. The Lt's stainless tubing can be cut/bent and installed to draw active oil. Sample from the same active zone every time, eliminating the inaccuracies of sampling too close to the bottom or sides.

## Benefits

- Samples up to 7x faster than the B16x2 series
- Zinc-nickel based corrosion protection offers 5 - 7x more life than industry standard
- Sample without shutting the equipment down

## Features

- High flow flush-faced valve designed to be able to sample high viscosity gear oils up to VG 1500
- Sampling tube draws only oil from the active zone
- Variety of port threads for direct installation
- Stainless steel chain and clip with no exposed springs

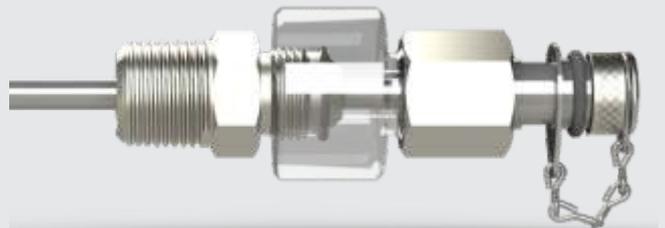


# THE LTJ SAMPLING VALVE

The same great L valve with a universal port. The LTJ Sampling Tube makes gearbox sampling simple. Install into a readily available port using a standard 1/2" (-8) JIC Flare fitting. The standard swivel helps easily position the tube to draw oil directly from the active zone while the equipment is running, leading to more reliable, trendable, and repeatable samples.

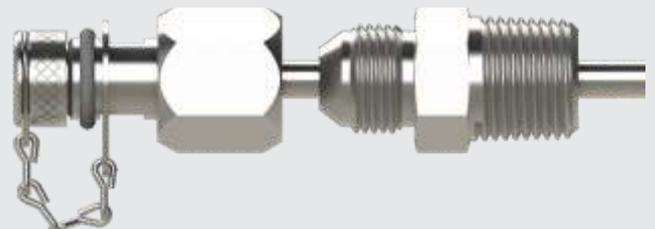
## Benefits

- Sampling tube draws only oil from the active zone
- Sample high viscosity gear oils without shutting down
- Samples 7x faster than the B16x2 series
- Zinc-nickel based corrosion protection offers 5 - 7x more life than industry standard
- Installs compactly into almost any port without special tools or multiple adapters
- 3D Sight Glass option provides easy visual for any oil discoloration and oil level



## Features

- High flow flushface valve is designed to be able to sample high viscosity gear oils up to VG 1500
- JIC style offers one less connection point - use 1/2" (-8) JIC Flare standard fitting for port installation
- Swivel feature allows for bending and positioning of the tube to draw from the active zone



The AD Mount allows for installation of a permanent sampling tube without monopolizing the drain or level port. The sampling tube is bent or positioned to reach the active oil zone. The drain mount includes a quick connect with the options to add a level gauge and moisture sensor.

## Benefits

- Combines sampling with draining or filtration features from one port
- Able to get a clean, accurate sampling from the active zone
- 7x faster sampling than other condition monitoring devices
- Provides a clean permanent drain or filter cart connection
- Allows for shorter suction connection lines for higher pump efficiency
- Combine with the AB series for complete gearbox maintenance to create a kidney loop and fill at the top of the gearbox

## Features

- High flow LT sampling tube
- Extended tube- sampling tube allows oil to be taken directly from the active zone while the equipment is running. Bend tube up for sampling from drain port.
- Filter/Drain- quick connect allows for clean draining or filtering of fluid without removing the sampling tube
- Sideport for moisture/level options
- Port adapter- variety of thread options to fit most gearboxes



# THE AB MOUNT

Optimize the breather port with an AB Mount. Mount a desiccant breather, a fill port, a filter minder, and a return vent line while maintaining a closed system with the AB. Combine with the AD Mount for a complete fluid maintenance system.

## Benefits

- Combines protection from system moisture and particulate contamination with quick fill in one port
- Option to connect to a filter cart with separate down tube to avoid filter contamination
- Combine with the AD Mount to create a kidney loop and drain at the bottom of the gearbox
- Optional sampling tube to get reliable samples directly from the active oil
- Optional desiccant breather offers better filtration to protect against particulates that can destroy your system and it removes moisture from the system

## Features

- Filter/Fill - quick connect allows quick and clean filling with separate stainless flow tube
- 1" desiccant breather port
- Sideport for optional filter minder and connection to AD Mount vent line
- Optional high flow LT Sampling Tube
- Port adapter 16 Bolt Flange - variety of thread options to fit most gearboxes



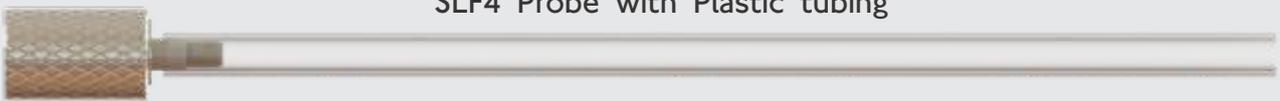
# SAMPLING ACCESSORIES

Checkfluid's LT Sampling Tube line requires the use of a probe and vacuum pump in order to take the oil sample.

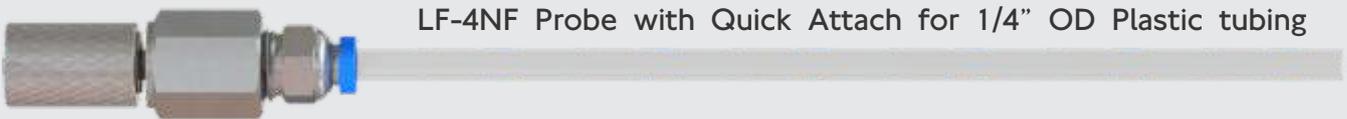


## PROBES

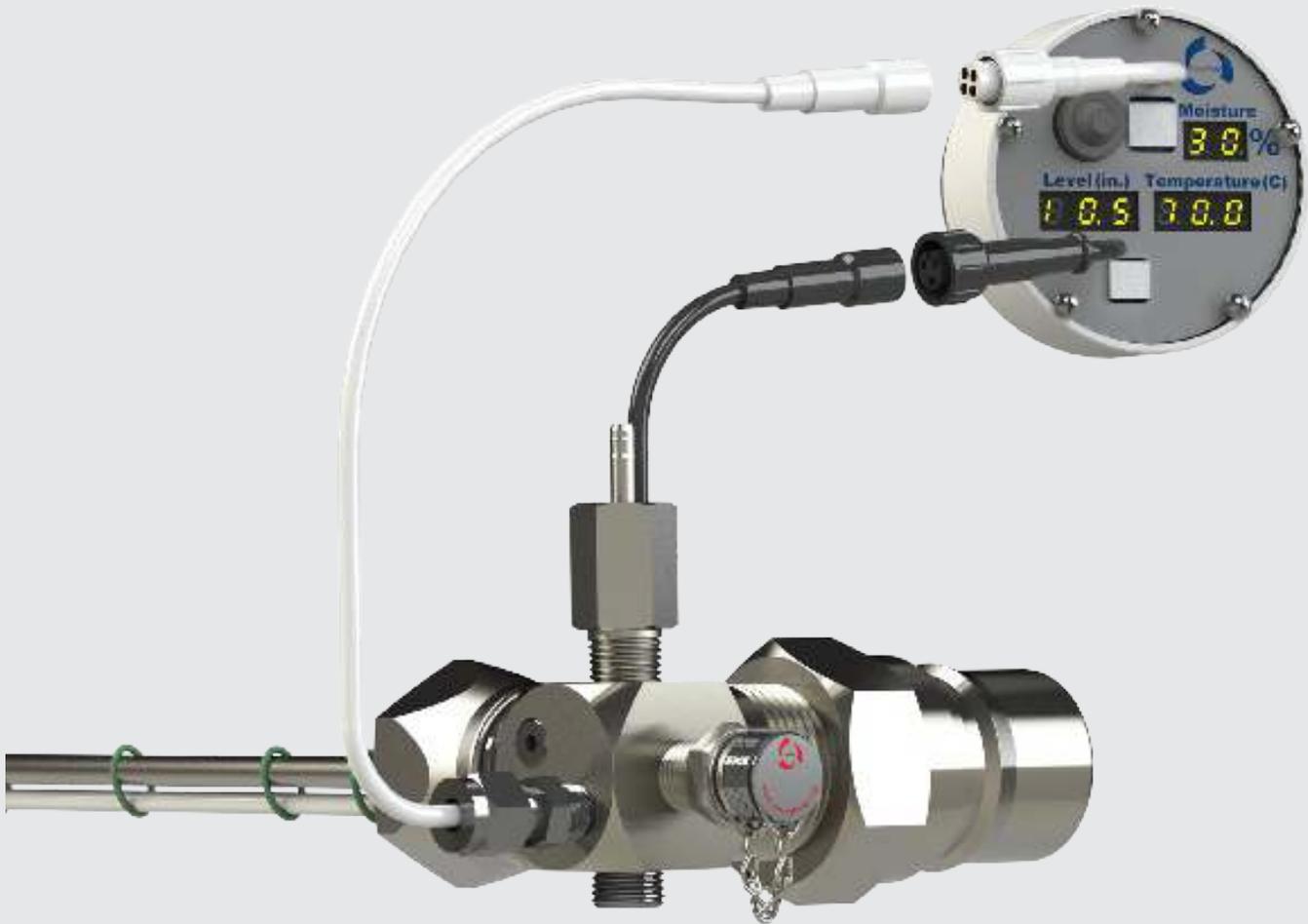
SLF4 Probe with Plastic tubing



LF-4NF Probe with Quick Attach for 1/4" OD Plastic tubing

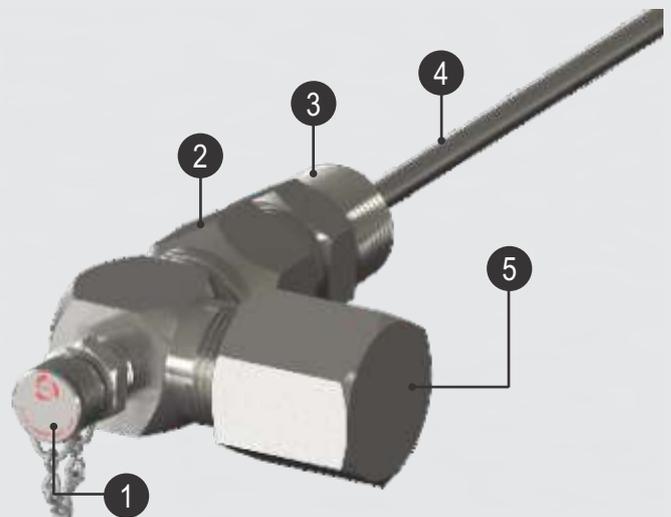


Spot three of the biggest causes of gearbox failure with a push of a button



## AD Features

- Sample- permanently installed High Flow LT sampling tube
- Swivel- swivel allows a bent tube to be positioned inside the gearbox while the connection is tightened
- Variety of Threads- wide variety of thread options to fit most gearboxes
- Extended Tube- tube allows sample to be taken directly from the active zone
- Filter/Drain- quick connect allows for cleanly draining or filtering of fluid without removing the sampling tube



# AD-MTL OVERVIEW

In addition to sampling, draining, filtering, and filling, the AD-MTL also detects:

### Moisture

- Avoid premature bearing and shaft cavitation that results from free or emulsified water
- Trend any buildup of dissolved water in oil
- Monitor depleted dessicant in breathers

### Temperature

- Respond to overheating that can signal oil deterioration, viscosity changes or acidification

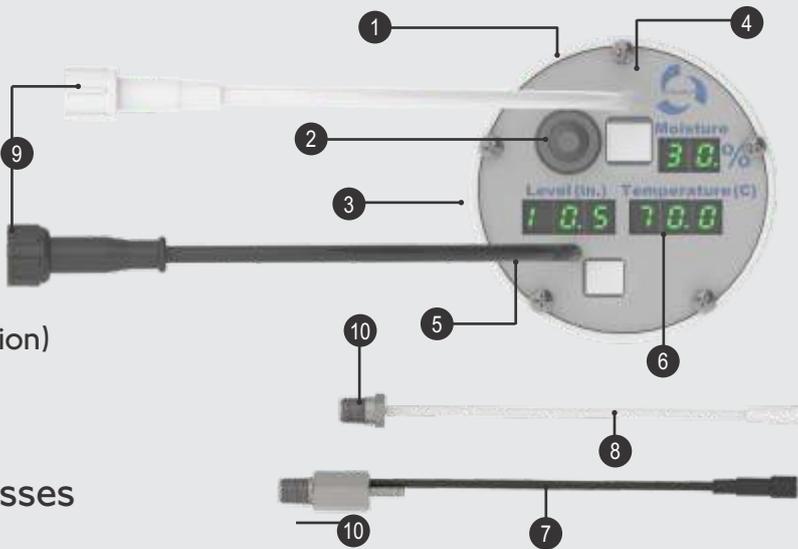
### Level

- Maintain accurate levels
- Both under-filled or over-filled oil conditions can expand the air in the headspace and over pressurize the gearbox
- Over pressurization ruins the seals allowing the ingress of moisture and containments



## SENSOR FEATURES

1. Rugged Case
2. Waterproof ON/OFF Button
3. Back Magnets for Easy Placement
4. Water and Drop Resistant Enclosure
5. Low Battery Light
6. Bright LED Display Units
7. Pressure/Level Cable
8. Moisture Cable (Waterproof Connection)
9. Extension Cables (5ft, 10ft, 15ft)
10. 1/4" NPTF Pipe Thread Sensors



Replaces the need for sight glasses that discolor and break

Sensor	Reaction Time	Accuracy
Moisture	5 - 10 seconds (based on turbulence of the oil)	±2% RH
Temperature	5 - 30 seconds	±0.3°C
Level	Instantly	Measurement range 0 - 99 inches

24 HR TOLL-FREE EMERGENCY  
BRANCH HELPLINE:

**0800 022 224**

WEBSITE:

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