

# INTRODUCING THE PHASE-TWO™ WATER DETECTOR FROM VEEDER-ROOT. THE FIRST REAL ANSWER TO DAMAGING PHASE SEPARATION.



GASOLINE AFTER PHASE SEPARATION

PHASE SEPARATION

CLEAN GASOLINE PHASE-SEPARATED GASOLINE

Water and ethanol are the new dynamic duo. Undetected, they can create a virtual time bomb called phase separation. Until now, this dangerous new mixture has been almost impossible to detect. And left untreated, it can corrode your tanks. Your customers' engines. And your profits.

Veeder-Root introduces the first true solution for phase separation detection. The Phase-Two provides you with early detection and continuous monitoring of in-tank phase separation and delivers alarms to your Veeder-Root automatic tank gauge. It offers you the peace of mind that comes from knowing that you are delivering quality fuel to your customers, that your equipment is safe, and that your brand will not be tarnished.

## UPGRADE YOUR TRUSTED VEEDER-ROOT SYSTEM TO PHASE-TWO.™



PHASE-TWO IN CLEAN GASOLINE



PHASE-TWO DETECTING PHASE SEPARATION

The first and only solution to continuously monitor and detect phase separation in an underground storage tank.

PHASE SEPARATION FLOAT HAS LIFTED

PHASE SEPARATION LAYER

Veeder-Root's Phase-Two was designed to be retrofittable and completely compatible with your existing Veeder-Root automatic tank gauges with a simple software upgrade.

### SPECIFICATIONS

Fuel compatibility	All gasoline blends up to 15% ethanol (E15)
Minimum detectable water height	0.38"
Minimum detectable fuel height	7.0"
Accuracy in water	± 0.10"
Accuracy in phase separation	+ 0.75"

### COMPATIBILITY

Tank opening	4"
Consoles	Veeder-Root TLS-450 (v3A or higher); TLS-350/300 (v30B or higher)
Probes	Veeder-Root Mag Plus (Series 8463)

### INTENDED USE

Use in any gasoline storage tank containing up to 15% ethanol. The new Phase-Two float kit replaces the traditional gasoline float kit. The float kit also works in pure gasoline with better performance for water detection than existing float kits by having a lower minimum detectable water height, allowing station owners to respond to a potential problem more quickly.



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PHASE-TWO™ WATER DETECTOR



PHASE SEPARATION.

WATER IS YOUR WORST ENEMY.  
NOW MEET YOUR NEW BEST FRIEND.





PHASE SEPARATION FLOAT

WATER FLOAT

PHASE-TWO™ WATER DETECTOR



TLS-300 CONSOLE

TLS-350 CONSOLE

TLS-450 CONSOLE

RETROFIT THE PHASE-TWO™ TO YOUR EXISTING VEEDER-ROOT SYSTEM.

# PHASE SEPARATION IS NOT JUST ANOTHER PHASE.

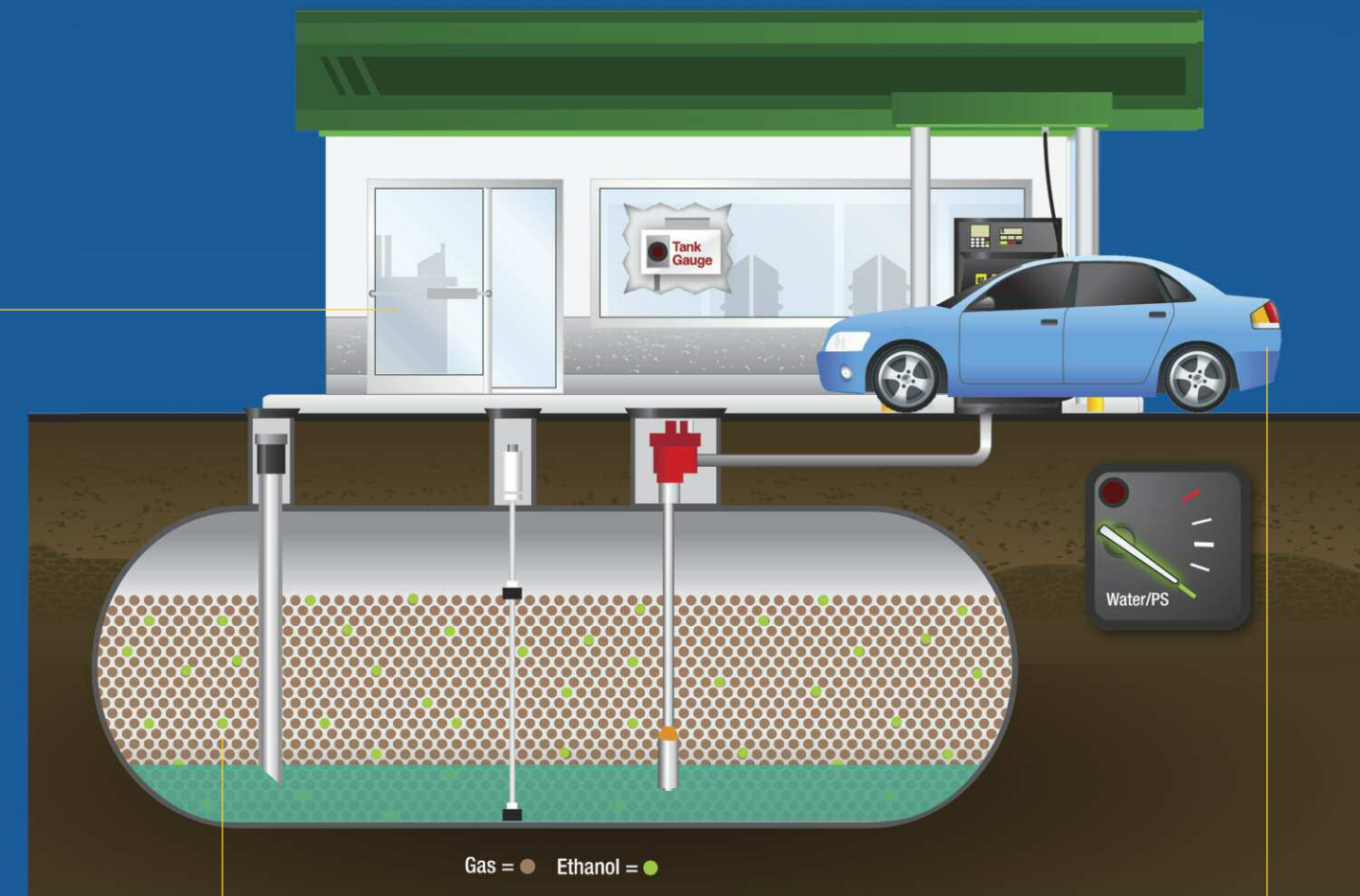
Ethanol is on the rise. Unfortunately, so is phase separation. Today, over 80% of U.S. stations are blending their gasoline with ethanol. And the number is rising. The only true protection against catastrophic results for station owners is early, reliable detection.

## PHASE SEPARATION CAN SEPARATE YOU FROM YOUR BUSINESS.

Phase separation pumped into your customers' vehicles will shut their engines down on your forecourt. And when their engines stop, your problems have just started. Their vehicles will need costly repairs (usually at your expense). But the thing that's even harder to repair is your reputation. When customers start sharing their stories with friends and family, the real damage is done.

## AN EVEN DEEPER PROBLEM.

With phase separation, your biggest problem may be lurking out of sight. Now you'll have to deal with purging your system, replacing dispenser filters, and disposing of contaminated fuel — which can easily run more than \$10,000. Given the corrosive nature of phase separation, you may also be faced with expensive repairs and remediation.



## YOU MAY BE PUMPING ILLEGAL FUEL.

Ethanol boosts octane levels. But when ethanol mixes with water to create phase separation, the remaining gasoline is depleted of ethanol, which will lower its octane level — and without knowing it, you could be caught pumping gas that's out of spec and not legally sellable.

## PHASE SEPARATION EXPOSED.

Industry standard water floats operate under a principle of density. They are tuned to detect water at the bottom of a tank. However, the density of phase separation is lower than water, and thus traditional water floats will not reliably detect phase separation. Veeder-Root's innovative Phase-Two Water Detector uses multiple densities to detect both water and phase separation, making sure you are always protected. Find more information at [detectphaseseparation.com](http://detectphaseseparation.com).

## THE ONLY TRUE PROTECTION IS EARLY DETECTION.