



**A LEGEND**  
**IN CARBURETORS**

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## A LEGEND IN CARBURETORS

The Zenith carburetors, kits and fuel systems components have been the first choice of almost every major industrial engine manufacturer for more than 95 years.

Since it was founded in 1911, Zenith Carburetor Company of Detroit, Michigan has been synonymous with quality, technology and leadership.

Today, the company is known as Zenith Fuel Systems LLC, with headquarters and a modern manufacturing facility in Bristol, Virginia and still offers original manufacturing equipment and replacement carburetors and kits.

Zenith updraft, downdraft, sidedraft/horizontal and replacement Marvel-Shebler carburetors are still available for several applications and engines such as:

***Allis Chalmers  
Caterpillar  
Chrysler  
Ford Industrial  
Ford Tractor  
Hercules Engine  
Hobart  
Navistar  
J.I. Case***

***John Deere  
Kohler  
Lincoln Electric  
Miller Electric  
Massey Ferguson  
Cummins – Onan  
Teledyne Continental  
Teledyne Wisconsin  
Waukesha***

The Zenith carburetors can be found on millions of gasoline and LPG applications, farm equipment and marine engines throughout the world.

## ZENITH MODEL 33

### **Downdraft Carburetor With Electronic Actuator**



The Model 33 Carburetor with Electronic Actuator is an integrated, electronically controlled fuel system, which maintains precise engine speed control with no droop over the entire power range. Adding to its impressive features, recent design improvements have increased this model's durability and improved governor performance.

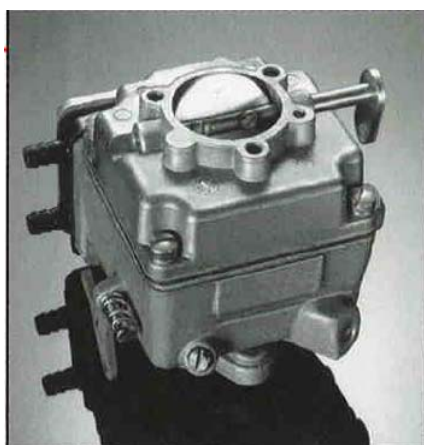
**Application:** Engine Size 20–80 CID

**Dimensions:** Throttle Bore 1.0 inch  
Choke Bore 1.188 inch  
Venturi Diameter  
13–16 mm range  
Fuel Inlet Fitting  
.281 inch diameter

Optional power and acceleration systems plus the availability of a fuel shut-off solenoid, add to the versatility of this popular carburetor.

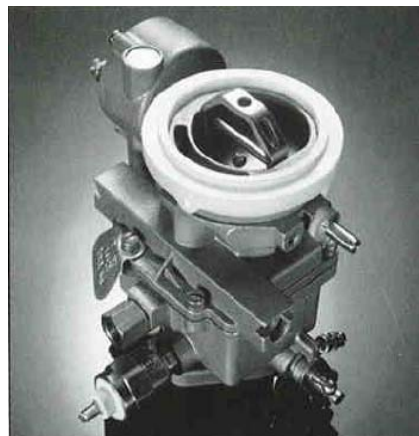
## ZENITH MODEL DD

### **Downdraft Carburetor**



## ZENITH MODEL 33

### **Downdraft Carburetor**



#### **Standard Features**

- **Accelerator Pump:** mechanical or vacuum.
- **Calibration Potential:** replaceable venturi sizes accommodate many engine applications.
- **Flexible Air-Cleaner Mounting:** accommodates a variety of designs.
- **All Aluminum Die Cast Construction.**
- **Choke and Throttle Levers:** may be specified for positioning on either side of carburetor.
- **Lip Seals:** on throttle shaft, minimize air leakage and seal out contamination.

#### **Optional Features**

- **Compact Fuel Shut-Off Solenoid:** prevents dieseling.
- **Automatic Choke.**
- **Main Jet Adjustment:** provides versatility.
- **Ball Bearings:** on throttle shaft for low-friction operation.
- **Ignition Vacuum Port:** provides signal for ignition system.
- **Power System:** optimizes full load performance.

**Application:** Engine Size 30–140 CID

**Dimensions:** Throttle Bore 1.181, .865 inch  
Choke Bore 1.804 inch  
Venturi Diameter  
12–28 mm range  
Fuel Inlet Fitting  
1/4–27 inch nine thread

#### **Standard Features**

- **Low Profile:** minimizes overall engine height.
- **Calibrated:** to engine requirements.
- **Internal Bowl Venting:** minimizes the effects of air cleaner deterioration.

#### **Optional Features**

- **Integral Fuel Pump.**
- **Solenoid Fuel Shut-Off.**
- **Main Jet Adjustment:** provides versatility.
- **Corrosion-Resistant Finishes.**

## Updraft Carburetor

### Standard Features

- **Choke Levers:** may be specified for positioning on either side of carburetor.
- **Internal Bowl Venting:** minimizes the effects of air cleaner deterioration.
- **Versatile Fuel Inlet Location:** provides flexibility in fuel line location.
- **Accelerator Pump:** vacuum.

### Optional Features

- **Compact Fuel Shut-Off Solenoid:** prevents dieseling.
- **Main Jet Adjustment:** provides versatility.
- **Back Suction Economizer:** for effective part throttle fuel economy.
- **Ball Bearings:** on throttle shaft for low-friction operation.
- **Ignition Vacuum Port:** provides signal for ignition control.
- **Power System:** optimizes full load performance.

## Downdraft Carburetor

### Standard Features

- **Accelerator Pump:** mechanical.
- **Power System:** optimizes full load performance.
- **Calibration Potential:** replaceable venturi sizes accommodate many engine applications.
- **Flexible Air-Cleaner Mounting:** accommodates a variety of designs.
- **Lip Seals:** on throttle shaft, minimize air leakage and seal out contamination.
- **Versatile Fuel Inlet Location:** provides flexibility in fuel line location.
- **Choke and Throttle Levers:** may be specified for positioning on either side of carburetor.

### Optional Features

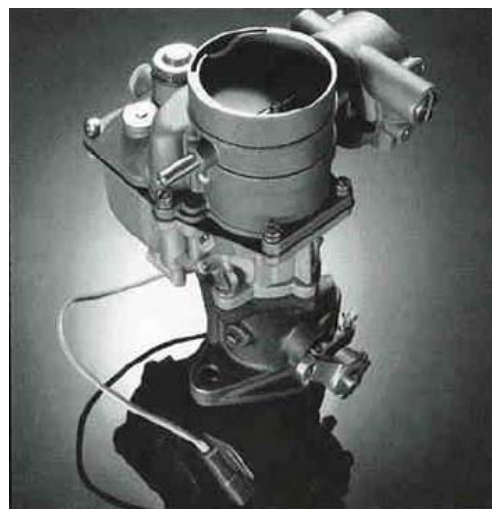
- **Compact Fuel Shut-Off Solenoid:** prevents dieseling.
- **Automatic Choke.**
- **Main Jet Adjustment:** provides versatility.
- **Ball Bearings:** on throttle shaft for low-friction operation.
- **Ignition Vacuum Port:** provides signal for ignition system.
- **Standard Straight Intake:** Vee-bead adapter and bail assembly supplied for air cleaner versatility.



**Application:** Engine Size 100–250 CID

**Dimensions:** Throttle Bore 1.181, 1.297, 1.417 inch  
Choke Bore 1.644 inch  
Venturi Diameter 18–30 mm range  
Fuel Inlet Fitting 1/8–27 inch pipe thread

The effect of air cleaner deterioration on this carburetor's calibration is minimized by internal bowl venting. The large volume semi-concentric fuel bowl and vent locations combine to permit extreme-angle operation.



**Application:** Engine Size 95–300 CID

**Dimensions:** Throttle Bore 1.297, 1.417, 1.535, 1.653 inch  
Choke Bore 2.0 inch  
Venturi Diameter 22–34 mm range  
Fuel Inlet Fitting 1/8–27 inch pipe thread

This versatile downdraft carburetor is available with a short or standard body, and its many venturi sizes can accommodate a variety of engine designs.



## Updraft Carburetor

### Standard Features

- **Choke and Throttle Levers:** may be specified for positioning on either side of carburetor.
- **Internal Bowl Venting:** minimizes the effects of air cleaner deterioration.
- **Back Suction Economizer:** supplied for part throttle fuel economy.
- **Versatile Fuel Inlet Location:** provides flexibility in fuel line location.
- **Lip Seals:** on throttle shaft, minimize air leakage and seal out contamination.
- **Die Cast Construction Throttle Body and Fuel Bowl.**

### Optional Features

- **Compact Fuel Shut-Off Solenoid:** prevents dieseling.
- **Main Jet Adjustment:** provides versatility.
- **Percolation Control:** available for high-temperature environments.
- **Throttle Shaft Ball Bearings:** minimize throttle shaft friction.
- **Ignition Vacuum Port:** provides signal for ignition system.

ZENITH MODEL 87

## Sidedraft Carburetor

### Standard Features

- **Multiple Venturi Sizes:** allow calibration flexibility.
- **Zinc Die Cast Construction.**
- **Choke and Throttle Levers:** may be specified for positioning on either side of carburetor.

### Optional Features

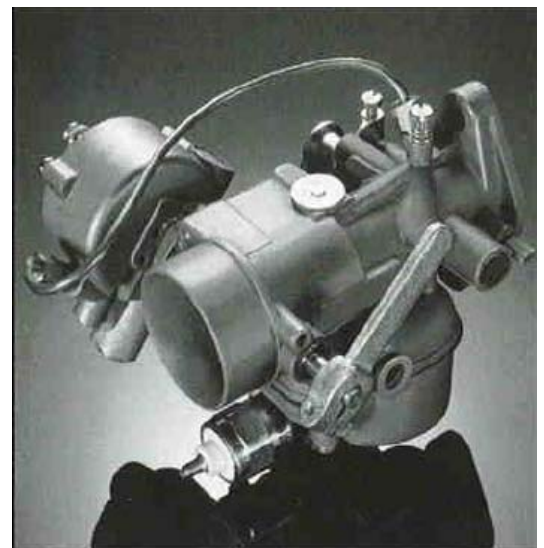
- **Compact Fuel Shut-Off Solenoid:** prevents dieseling.
- **Automatic Choke.**
- **Main Jet Adjustment:** provides versatility.
- **Back Suction Economizer:** supplied for effective part throttle fuel economy.
- **Ignition Vacuum Port:** provides signal for ignition control.

This versatile sidedraft carburetor has been designed to last. Its supply of options allows this model carburetor to satisfy many different engine applications found in most governing systems today.



**Application:** Engine Size 25–170 CID  
**Dimensions:** Throttle Bore 1.024, 1.181 inch  
Choke Bore 1.376 inch  
Venturi Diameter  
14–24 mm range  
Fuel Inlet Fitting  
 $\frac{1}{8}$ –27 inch pipe thread

A back suction economized system provides this updraft carburetor with effective part throttle fuel economy. A variation of this design can be specified with components that will handle fuel percolation.



**Application:** Engine Size 100–200 CID  
**Dimensions:** Throttle Bore .82, .945, 1.18 inch  
Choke Bore 1.136, 1.378 inch  
Venturi Diameter  
12–26 mm range  
Fuel Inlet Fitting  
 $\frac{1}{8}$ –27 inch pipe thread

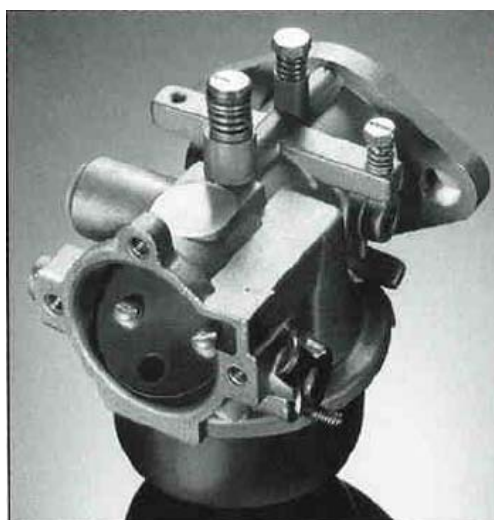
## Sidedraft Carburetor

### Standard Features

- **Economical Design:** aluminum die casting and concentric fuel bowl.
- **Choke Plate Poppet Valve:** eliminates overchoking.
- **Air Nozzle:** provides fuel atomization.
- **Choke and Throttle Levers:** may be specified for positioning on either side of carburetor.
- **Lip Seals:** on throttle shaft, minimize air leakage and seal out contamination.

### Optional Features

- **Main Jet Adjustment:** can be positioned on either top or bottom.
- **Ignition Vacuum Port:** provides signal for ignition control.

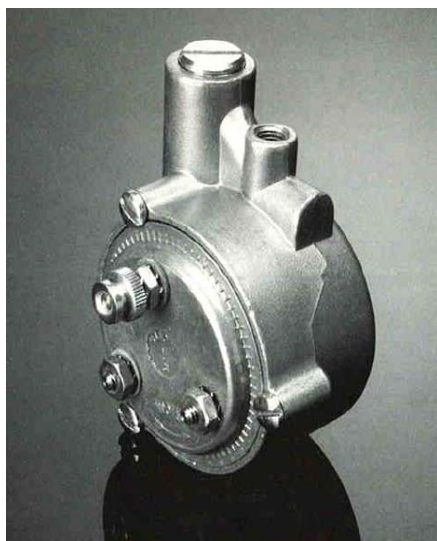


**Application:** Engine Size 25–110 CID  
**Dimensions:** Throttle Bore 1.181 inch  
Choke Bore 1.376 inch  
Venturi Diameter  
18–24 mm range  
Fuel Inlet Fitting  
1/8–27 inch pipe thread

This sidedraft carburetor has a concentric fuel bowl, a single ring-shaped float and a 3-position spring-loaded choke plate with poppet valve. Its air nozzle throttle body construction provides fuel atomization.

## Automatic Choke

FOR ZENITH CARBURETOR MODELS 33, 87, AND 228



### QUICKER COLD STARTS BETTER DRIVABILITY

Designed for use with Zenith carburetors (with or without throttle actuators), the Zenith Electric Automatic Choke incorporates an improved vacuum-operated pull-off mechanism with an adjustable stop and an electrically heated thermostatic coil. This system provides the correct air/fuel mixture enrichment for quick cold engine starts and improved performance during the warm-up period.



## PC Series Model

### Updraft Carburetors LPG

#### Standard Features

- Final Stage regulator built into carburetor
- Incorporates "back suction" type of economizer to assure maximum economy with no loss of power

#### Dimensions

##### PC 1

Throttle bore 1.181

Manifold center –to-center 2 5/16

##### PC 2

Throttle bore 1.417

Manifold center –to-center 2 11/16



## VD Series Model

### Down draft Carburetors Gasoline

#### Standard Feature

- Compact die-cast construction.

#### Optional Feature

- Main Jet adjustable.

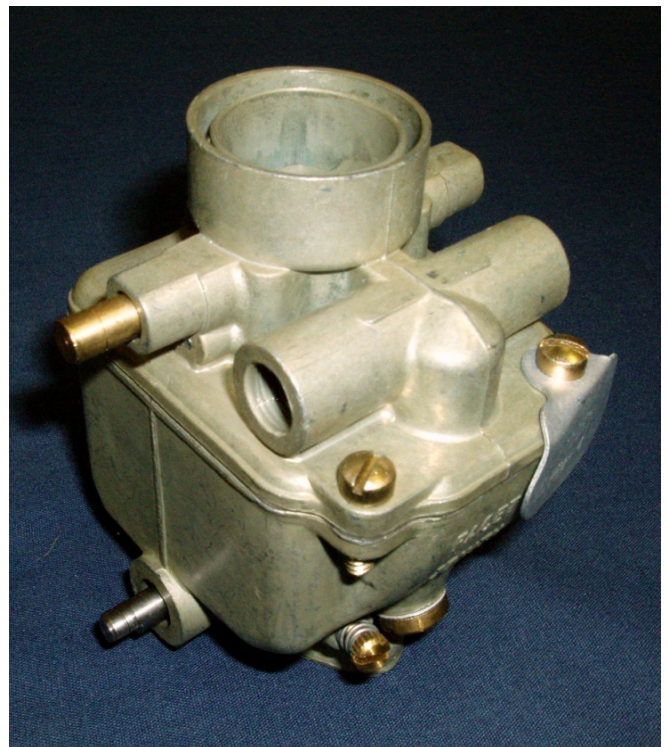
#### Dimensions

Throttle bore: .9375 - .9385"

Choke bore: 1.03"

Venturi diameter: 19mm – 24mm

Manifold center –to-center: 1 13/16



# VAPORIZER — PRIMARY REGULATORS

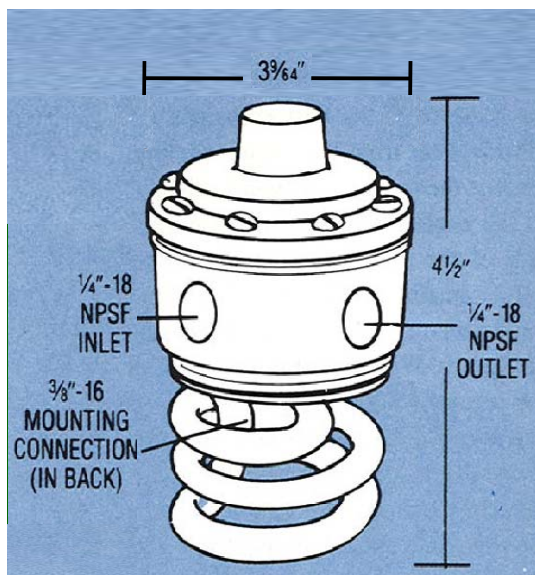
## Replacement Assembly



STANDARD  
MODEL  
10 PSI  
A-962A-1A



ADJUSTABLE  
MODEL  
A-962B-1B



**Main Dimensions**

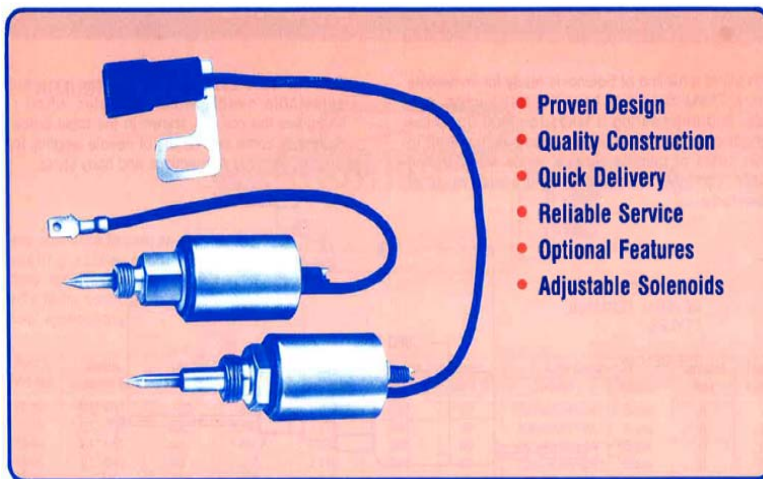


**Water Jacket**

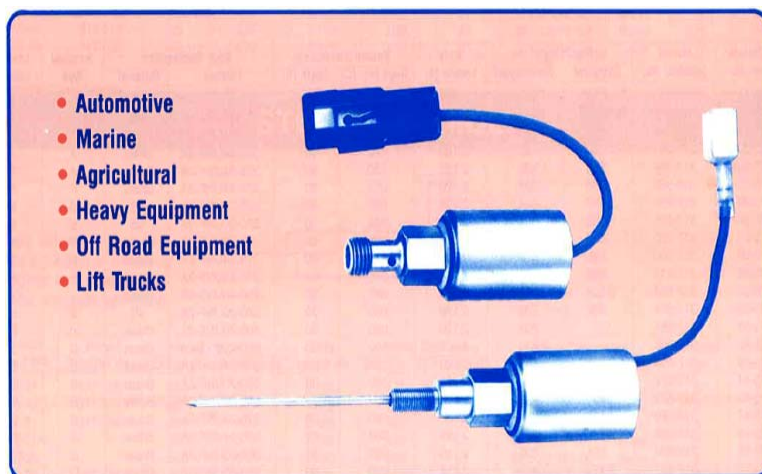




# SOLENOIDS



- Proven Design
- Quality Construction
- Quick Delivery
- Reliable Service
- Optional Features
- Adjustable Solenoids



- Automotive
- Marine
- Agricultural
- Heavy Equipment
- Off Road Equipment
- Lift Trucks

## FUEL FILTER – SHUT OFF

### Standard Feature

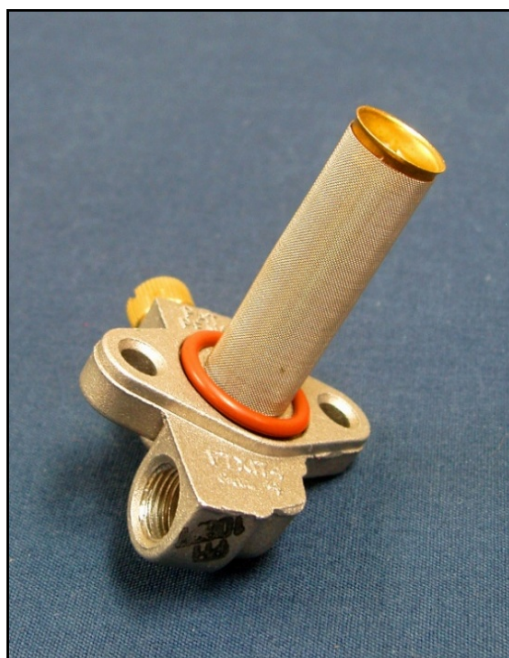
- Compact die-cast construction.
- Including Viton "o"- ring

### Applications:

- Gas Tractors: 501,600, 601, 700, 701, 2000 (1955 to 1964); 800, 801, 900, 901 (1955 to 1960).
- Diesel Tractors: 501, 601, 701, 801, 901, 2000, 4000 (1958 to 1964)

### Dimensions

Fuel inlet: 7/16" – 24 inverted flare  
 Flange: center-to-center 1 7/16"  
 Mounting screw: size # 10  
 Screen length: 1 3/4"  
 Screen Dia.: 9/16"



## **MARVEL SCHEBLER** **CARBURETORS**

Zenith has been asked if service parts for John Deere DLTX carburetors are still available. These carburetors were originally manufactured by Marvel Schebler and are no longer available. However Zenith can still supply replacement kits and parts to service the Single barrel and Duplex DLTX models.

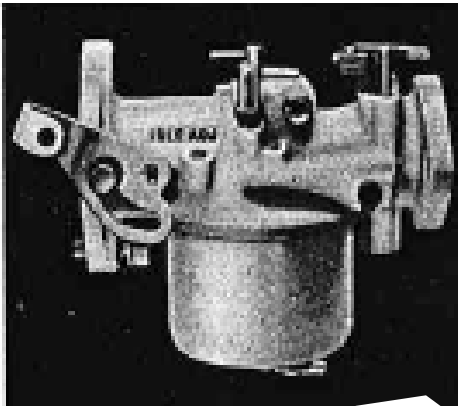
Zenith can also supply some service parts for models USX and TSX for a number of manufacturers .

Please contact:

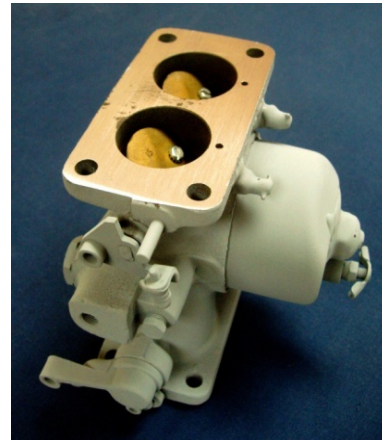
**Mattie Bellamy – (276) 645-8619 direct**

**email: [mbellamy@zenithfuelsystems.com](mailto:mbellamy@zenithfuelsystems.com)**

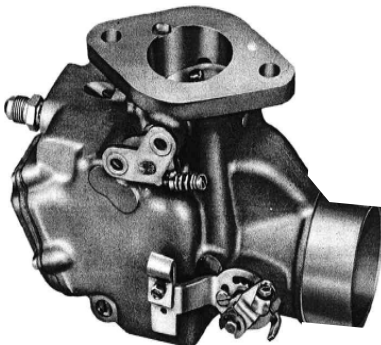
**We will be glad to send you a brochure with a complete list of kits and service parts available**



**DLTX -  
SINGLE  
BARREL**



**DLTX -  
DUPLEX**



**USX - Carburetor**



**TSX - Carburetor**

# Zenith Fuel Systems LLC

Zenith is always looking forward to serving its customers with the best variety and good selection of replacement carburetors, parts and kits for a large number of vintage engines and applications.

Zenith is also committed to searching for other products that are not included in our regular line of products.

If you have any questions or need additional information, please give us a call or email by contacting:

**Mattie Bellamy – (276) 645-8619 direct**

**email: [mbellamy@zenithfuelsystems.com](mailto:mbellamy@zenithfuelsystems.com)**

**or contact any  
Zenith Distributors nearest you  
[www.zenithfuelsystems.com/dealers.htm](http://www.zenithfuelsystems.com/dealers.htm)**