



GAMMON

GAMMON TECHNICAL PRODUCTS, INC.
P.O. BOX 400 - 2300 HWY 34
MANASQUAN, N.J. 08736

PHONE 732-223-4600
FAX 732-223-5778
EMAIL gammontech@gammontech.com

**ADDITIVE
INJECTION
SYSTEMS**

**BULLETIN 36
(10-02)**

THE VIPER ADDITIVE INJECTION SYSTEMS

Deadly Accurate - Lightning Fast - Reasonably Priced

The Viper is a simple: refined, high performance additive injector based on our well proven pneumatic piston technology. No pipe cutting is required for installation, and the Viper is just as accurate at 5 gpm as at 1600 gpm.

Easy to install: the Viper comes in several versions for use on refueler vehicles and loading racks. Pre-assembled Vipers are available.

Long life: our tests show a minimum life on clean additive of 35,000,000 gallons before seal replacement is necessary.

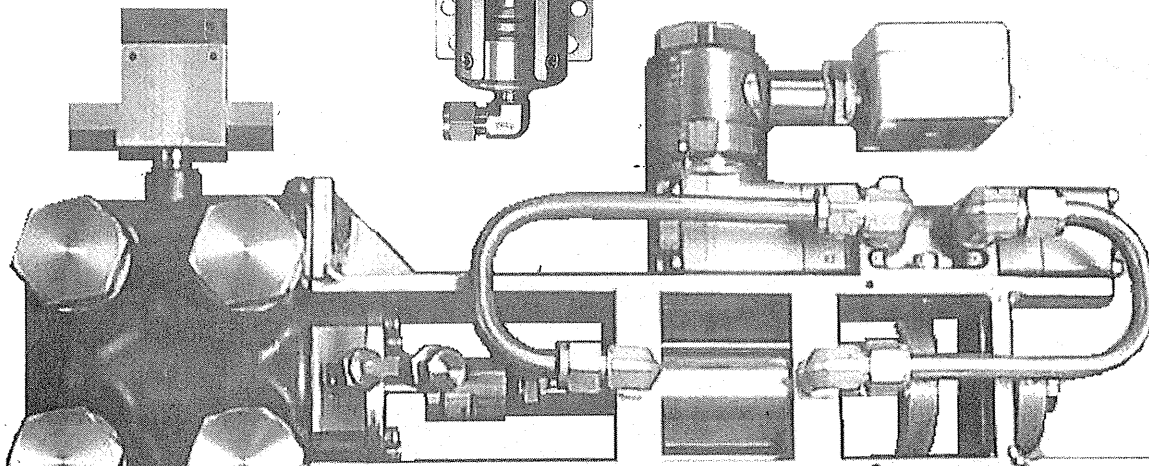
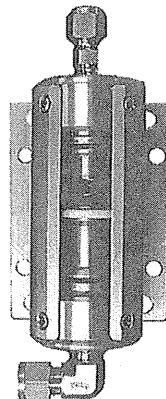
Additives: both Vipers can be used with a wide variety of additives. Call to see if we have one to cover your needs.

Holds accuracy: our piston pump design is very consistent and accurate. Our heavy duty adjusters are easy to set, and the adjustment is linear, so there is no guess work! But you may never have to readjust the Viper.

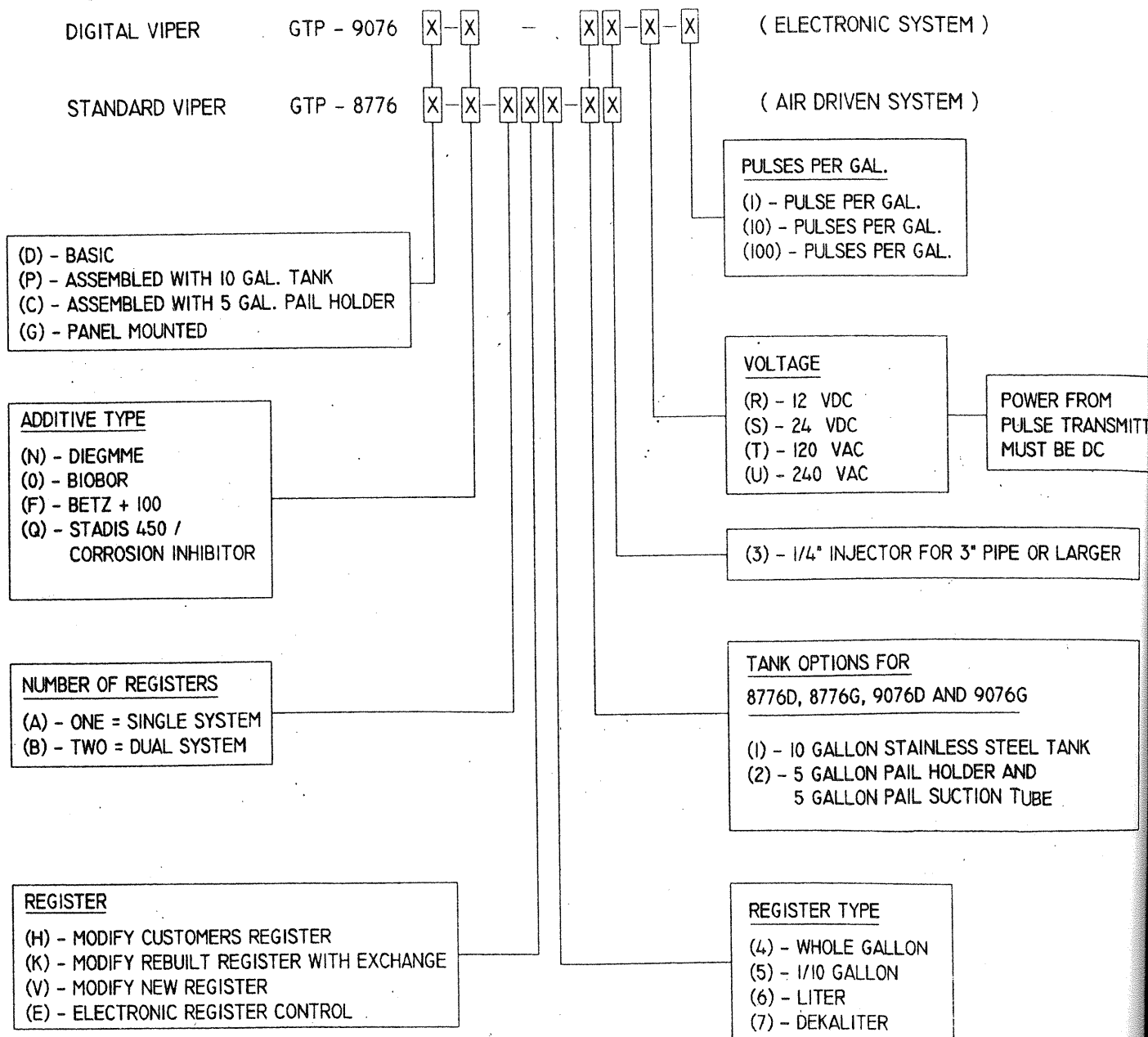
Heavy Duty "soft" seated check valves: (not metal to metal) these check valves have special compound self cleaning seals. Seals are available for all aviation additives and many more.

High capacity built-in strainer: oversized and built right into the pump.

High Visibility Flow Indicator: visible up to 50' away, high quality, long life



NEW: DIGITAL VIPER: adds inexpensive electronic control and interface, and will now operate on **TWO METERS SIMULTANEOUSLY!** It has the great advantage of being controlled by a Veeder Root programable electronic counter. The same Viper can be used with a meter (or even TWO meters at once) calibrated in tenths of gallons, gallons, liters, dekaliters or whatever!



ACCESSORIES TO BE ORDERED SEPARATELY

GTP-3355 (55 GALLON DRUM LEVEL INDICATOR)
 GTP-3355-10 (55 GALLON DRUM RACK)
 GTP-5504 (55 GALLON DRUM SUCTION TUBE)
 GTP-3895 (55 GALLON DRUM VENT ASSEMBLY)
 GTP-8776-9 (5 GALLON PAIL - EMPTY)

GTP - 8691-4 ☒ - ☒ (CALIBRATOR)

SCALE

(A) - 256-PPM
(B) - 1000 PPM
(C) - 1500 PPM
(D) - 1800 PPM
(E) - 0-180 ML

ADDITIVE TYPE

(1) - DIEGMME
(2) - BIOBOR
(3) - BETZ + 100
(4) - STADIS 450 / CORROSION INHIBITOR

NOTE: 55 GALLON DRUMS MUST BE HORIZONTAL FOR BEST OPERATION.

GAMMON

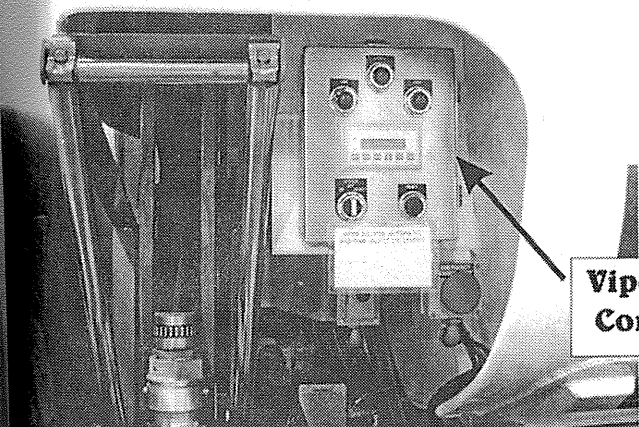
GAMMON TECHNICAL PRODUCTS, INC.
P.O. BOX 400 - 2300 HWY 34
MANASQUAN, N.J. 08736

PHONE 732-223-4600
FAX 732-223-5778
EMAIL gammontech@gammontech.com

VIPER ECLIPSE

BULLETIN 161
(11-05)

Fully Automatic Additive Injection System
Auto-Monitoring - Self-Adjusting
The Ultimate in Additive Injection Systems
Longer Life and Less Expensive



**Viper Eclipse
Control Box**

Monitoring, Self-Adjusting - "Eclipses" so-called "start" systems that only alert you when they fail.

By a Breakthrough. The operator selects either "Additive" or "No Additive". The rest is automatic. The additive concentration in ppm and percent is continuously displayed on the back lighted digital readout. Also displays gallons of fuel and additive for each fueling.

Operating Range 1 to 1,600 GPM, -40 to +150 F, operates at 1 or 2 meters at the same time. Additive rates from 1.5 to 150 ppm.

Easy Installation, No Heavy Electrical Load, unlike competitor's products. The Viper Eclipse is compact, uses almost no power and little compressed air.

Easy To Install and Retrofit, The Eclipse is compact

Field Repairable and Adjustable! It should run without repair for 1,000,000 gallons treated, and then just require a field rebuild to make it like new. No Viper has ever gone out of adjustment in 6 years on the market.

How Accurate is the Viper Eclipse? A Viper Eclipse set at 1000 ppm injecting FSII (Prist, DIEGME, etc.) will maintain accuracy within 10 ppm (0.1%).

Can I add the Eclipse Control Unit to my present Viper?

Yes. Just add the additive flow meter. The Eclipse Monitoring System replaces the existing control box.

How Complex is the Installation? No pipe cutting needed. Comes with all tubing and wiring. Requires meter pulsers, but can use an existing pulser.

Viper Eclipse

Surpass Expectations

STANDARD, NOT OPTIONAL FEATURES:

Digital Readout - ppm, percent, totals

Alarms and Warning Lights - Hi/Lo

High Flow Strainers - Inlet and Outlet

Atomizing Injection Nozzle

Inject - Off - Calibrate Valve - Included

Double Acting Pump - Nearly continuous additive flow

Flow Indicator - High Visibility, Included

BENEFITS:

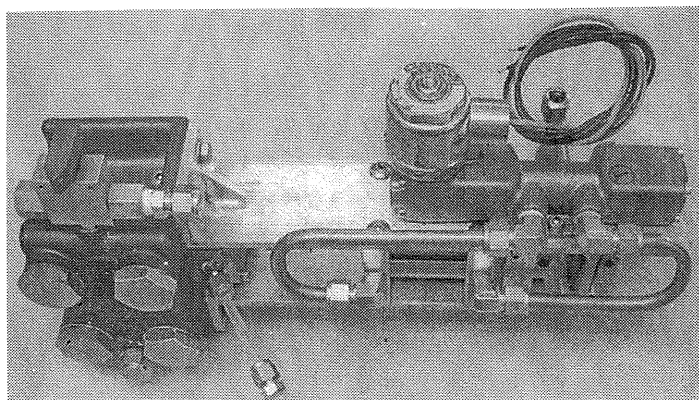
Low Air and Electric Usage

No Electric Motor - No overheating or electrical/battery load problems

Features Included

Positive Displacement Piston Pump
Near Continuous Flow - Double Acting
Hi Visibility Flow Indicator
Injection Nozzle for Good Blending
Self-Cleaning Rubber Seated Check Valves
Teflon Piston and Shaft Seals
Test and Calibrate Modes
Additive Meter Calibration Mode
Pump Priming Mode (if reservoir is run dry)
Leak Indicator for main seal
Cold Weather Circuit Heater - Automatic
Backlit Digital Display with: PPM, Percentage,
Fuel and Additive Flow Totals
Easy to Use Oversized Switches even with
gloves on
All Swagelock S/S tube Fittings (the best)
S/S Tubing Included
Air Control with Lubricator and Regulator
Graduated Calibration Bottle
High and Low Indicator Lights
Automatic Shutoff if Beyond Limits
Dual Inlet and Outlet Strainers
All wiring, fittings and hardware included

NO Electric motors or heavy wiring
NO Wide Tolerance for Additive Accuracy
NO High battery drain
NO Diaphragms or Cam Adjuster
NO Pipe cutting
NO Add-on Flow Indicator - It is included!
NO Add-on Calibration Valve - Included!
NO Location Problems, Mount anywhere!
NO Hidden costs, everything is included
NO Need to re-calibrate frequently
NO Need to send back to factory for minor
repair
NO Metal-to-metal check valves; ours are O-
ring sealed and replacable. Self-cleaning
design.
NO High cost repair items
NO Regular repairs needed, estimated seal
life 50,000,000 gallons treated
NO Need for reservoir to be higher than
injector
NO Need for Viper pump to be in your way
NO Hidden Costs!!!



Options

Viper Mounted On Bracket
Viper Mounted on 10 Gallon Tank Bracket
Viper Mounted on 5 Gallon Pail Bracket
5 Gallon Plastic Pail Holder
Pail Suction Assembly
5, 10, 12, 15 or larger Stainless Steel
Reservoirs Available
Longer Injection Nozzles than Standard
Kits to Convert other Vipers to Eclipse

How To Order

RETRO FIT	TL-9226	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
VIPER ECLIPSE	TL-9276	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

(D) - BASIC (P) - ASSEMBLED WITH 10 GAL. TANK (C) - ASSEMBLED WITH 5 GAL. PAIL HOLDER (G) - PANEL MOUNTED	
<u>ADDITIVE TYPE</u> (N) - DIEGMME (O) - BIOBOR (F) - BETZ + 100 (Q) - STADIS 450 / CORROSION INHIBITOR	
<u>VOLTAGE</u> (R) - 12 VDC (S) - 24 VDC (T) - 120 VAC (U) - 240 VAC	
<u>OPTIONS</u> (0) - STANDARD (1) - 10 GALLON STAINLESS STEEL TANK (2) - 5 GALLON PAIL HOLDER & SUCTION TUBE (3) - INJECTION NOZZLE 3" PIPE OR LARGER	