

**A DECADE OF INNOVATION IN
BRUSHLESS FUEL PUMP TECHNOLOGY**



www.FUELAB.com



FUELAB BRUSHLESS TECHNOLOGY

We launched FUELAB over 10 years ago with the idea of introducing ground breaking technology to fuel system products. At the time, brushless fuel pumps were generally thought of as a great idea, but costs and manufacturability kept many from pursuing this type of design.

Historically, aftermarket high flow pumps run in a continuous duty mode can lead to excessive heat buildup in the system, which can vapor lock the fuel pump. The liquid fuel literally vaporizes (boils) inside the pump assembly. Symptoms can include a dramatic loss of flow rate, gauge “bouncing”, grinding and excessive noise from the fuel pump, and inconsistent or loss of fuel pressure.

The damage to the pump from this condition is often permanent and results in a direct loss of capacity and efficiency. Eventually the fuel system resorts to complete failure to build or maintain pressure, possibly resulting in an engine lean out condition that can lead to serious engine damage.

A number of fixes were tried over the years to address this specific issue. Multi-pump configurations and voltage regulation into a brushed motor fuel pump were used with mixed results. Our solution to this problem was to find a way to keep heat from building up in the fuel by gaining efficiency. We set our sights back to

brushless motors and attacked the issues head on. We worked to develop custom brushless motors with neodymium rare earth magnets for a powerful motor in a lightweight package. We developed a 12 volt sensorless drive for the new motors that up until that point wasn't available in any automotive or industrial market. This new technology allowed for speed input and control devices to run the fuel pump “on demand”, reducing the loads at idle conditions and keeping excessive heat out of the fuel system. We packaged it with a smart, high efficiency sling vane positive displacement pump mechanism and made it all compatible with gasoline, diesel, ethanol and methanol.

Today we call that effort our Prodigy line of fuel pumps. We're proud to offer them as our first line solution for high horsepower, continuous duty fuel systems. But we're not about to let all of this learned technology sit as a stand-alone product. Our new 2020 product offering builds on 20+ years of fuel system experience to roll out the next generation of highly efficient fuel pumps and systems. Explore our new catalog for a sneak peek at the future of high performance fuel systems.



FUELAB FUEL PUMPS



PRODIGY FUEL PUMPS



Our Prodigy line of fuel pumps were born of inspiration and innovation, and our DC brushless technology stands alone as the benchmark in demand based fuel delivery systems. Each Prodigy pump is hand built, tested and certified at our facility in Collinsville, IL under strict quality and rigorous testing guidelines before shipping.

We have 11 innovative models available ranging in performance levels to give you the confidence and competitive edge you demand.

PUMP FEATURES:

- Compatible with gasoline, diesel, methanol, and ethanol
- High efficiency sling vane positive displacement pump
- Special housing shape for extremely quiet operation and steady pressure
- Carbon 9-vane construction with pressure balanced rotor for high reliability
- Backed by a 2-year limited warranty

MOTOR FEATURES:

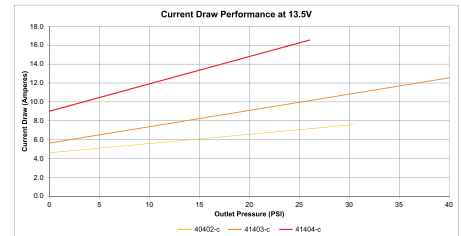
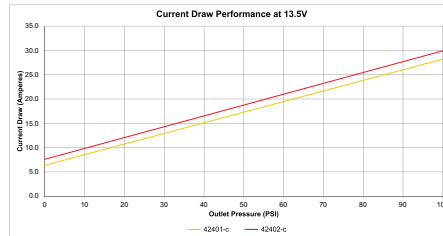
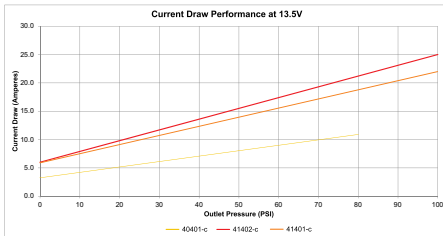
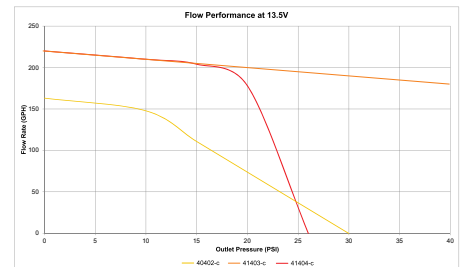
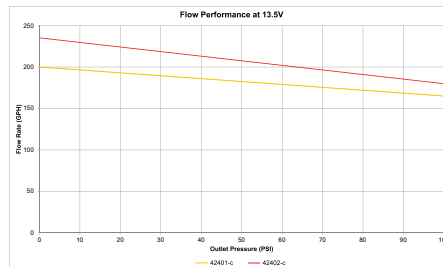
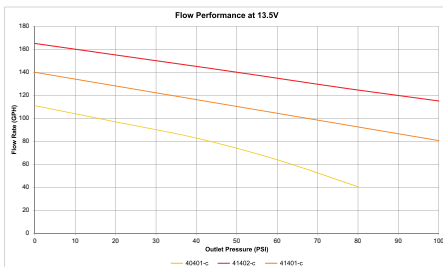
- Lightweight super-efficient DC brushless motor reduces current draw
- Low mass rotor for high speed reaction to changes in speed and flow
- Powerful high flux density Neodymium rare earth magnets
- No motor brushes to wear out or corrode (low-Sulfur diesel, no problem)
- Wet motor design, no dynamic shaft seals that can wear

ELECTRONIC FEATURES:

- Internal speed controller for variable flow operation
- Accepts PWM input for speed control
- 12 to 24 volt vehicle electrical system compatibility
- No expensive voltage reduction/pulse width modulation controllers required
- Continuous duty motor speed can be adjusted to meet fuel demand

CONSTRUCTION FEATURES:

- Compact, lightweight design, less than 2.5lbs!
- Billet Aluminum Construction with anodize per MIL-A-8625, Type II
- High quality mounting brackets included
- Long-life, multi-fuel compatible Fluorosilicone static seals
- Accepts standard or port style –10AN fittings



COLOR OPTIONS

Add the color number shown below after the part number when ordering - ie: 40401-2 for a red 40401 Prodigy Fuel Pump. Actual colors may vary.



40401 75GPH @ 45PSI **RATED UP TO 700HP**
REDUCED SIZE EFI IN-LINE FUEL PUMP
 All the great features of our original Prodigy series in a smaller package! Get the benefits of a 255lph rated fuel pump with less current draw and cross fuel compatibility all in a pure billet format.

40402 140GPH @ 10PSI **RATED UP TO 1000HP**
REDUCED SIZE CARBURETED IN-LINE FUEL PUMP
 This 160GPH free flow rating fuel pump is programmed to deliver the maximum flow with the lowest current draw available. Nothing else like it!

41401 105 GPH @ 45 PSI **RATED UP TO 1000HP**
HIGH PRESSURE EFI IN LINE FUEL PUMP
 The original digital Prodigy fuel pump, great for racing, performance, or off-road use.

41402 140 GPH @ 45 PSI **RATED UP TO 1300HP**
HIGH EFFICIENCY EFI IN LINE FUEL PUMP
 Increase performance capabilities with extra flow for higher powered engines.

41403 200 GPH @ 15 PSI **RATED UP TO 1800HP**
CARBURETED IN-LINE FUEL PUMP
 Get a high amount of flow - made for carbureted and lower pressure applications.

41404 200 GPH @ 15 PSI **RATED UP TO 1800HP**
CARBURETED IN-LINE FUEL PUMP
 Developed from our successful 41403 model, we take all the benefits of a high flow in-line pump and integrate a bypass valve directly into the outlet assembly of the pump.

42401 170 GPH @ 45 PSI **RATED UP TO 1500HP**
HIGH PRESSURE EFI IN-LINE FUEL PUMP
 Throw in as much boost as you want, this model will support up to 1500 horsepower at high pressures.

42402 190 GPH @ 45 PSI **RATED UP TO 1800HP**
HIGH POWER EFI IN-LINE FUEL PUMP
 The top of the line... supports very high horsepower!

PRODIGY IN TANK POWER MODULES

Prodigy In-Tank Power Modules are the ultimate in upgraded fuel system components.

Developed for racing, these fuel systems are designed for quick, easy installation into your factory tank or aftermarket fuel cell. Our single pump design supports up to 1800HP, increases reliability by eliminating multi



pump configurations, and saves you time and money.

By pairing this design with our award-winning 529 series

electronic fuel pressure regulator, you get high flow capacity with on demand fuel delivery, for the most advanced fuel delivery systems available.

90902 ... In Tank **1000HP**

Based on our popular 40402 series, but in a configuration for in tank applications. Carb only.

PUMP FEATURES:

- Based on our popular Prodigy Series, but in a configuration for in-tank applications
- Compatible with gasoline, diesel, methanol and ethanol
- Jet pump compatibility for saddle tanks or internal pumps
- High efficiency sling vane positive displacement pump
- Special housing shape for extremely quiet operation and steady pressure
- Carbon 9-vane construction with pressure balanced rotor for high reliability
- Backed by 2 year limited warranty



91901 In Tank **1000HP**

Based on our popular 41401 series, but in a configuration for in tank applications.

ELECTRONIC FEATURES:

- Internal Speed controller for variable flow operation
- 12 to 24 volt vehicle electrical system compatibility
- Accepts PWM input for speed control
- No expensive add-on voltage regulators or pump controllers required
- Continuous duty motor speed can be adjusted to meet fuel demand

MOTOR FEATURES:

- Lightweight super efficient DC brushless motor reduces current draw
- Low mass rotor for high speed reaction to changes in speed and flow
- Powerful high flux density neodymium rare earth magnets
- No motor brushes to wear out or corrode (low sulfur diesel, no problem)
- Wet motor design, no dynamic shaft seals that can wear out

92902 In Tank **1800HP**

Based on our popular 42402 series, but in a configuration for in tank applications.

INSTALLATION FEATURES:

- Requires the use of a bypass style regulator and return line
- Single Drop in Fuel Pump
- Installation kits available for Fabricator Series and Vehicle Specific Applications
- No wires to pass in fuel tanks
- Eliminates the need for multi-pump wiring, Y-blocks, and extra plumbing
- Easy service access flange system
- Installation kits sold separately
- Utilizes the factory tank, o-ring, lock ring and mounting location
- Can be used without 529 Series Electronic Fuel Pressure Regulator
- Features Noise Dampening Pump Mount Technology

POWER MODULE INSTALL KITS

Designed for the custom tank builder or fabricator, the FUELAB In-Tank Power Modules work with our unique sealed flange system to give you multiple mounting options into steel or aluminum tanks and fuel cells. The Power Module system also provides a cleaner installation by hiding the straining filter and pump. Installation time is quicker and more affordable, with less fuel system components that require mounting. Previously considered problematic vehicles that are hard to sump, have saddle tanks or otherwise do not have enough room or a good location available for an external pump, now have a viable, simple and reliable solution.

IN-TANK POWER MODULE FABRICATOR INSTALLATION KIT

20901 Aluminum Assembled Flange Fabricator Kit

20902 Aluminum Weldable Flange Fabricator Kit

20903 18-8 Stainless Steel Weldable Flange Fabricator Kit



H/E SERIES BRUSHLESS TWIN SCREW PUMPS



Fuelab continues to lead the way in fuel pump innovation. Our H/E Series of brushless twin screw pumps represent a giant leap in efficiency and reliability. These pumps use a lightweight, DC brushless motor to reduce current draw to incredibly low levels while maintaining flow at pressures up to 125psi. Combined with a twin-screw rotor pumping mechanism, they offer superior priming capabilities, improved resistance

to cavitation, and fuel compatibility with gasoline, diesel, methanol and ethanol fuels. The 474xx series is a billet aluminum external pump with integrated controller. The new 484xx series is an in-tank version that can be run by existing vehicle outputs for brushless control or any of our 7200x models for external control. Choose from 250, 350, and 500 LPH flow options.

474 SERIES EXTERNAL

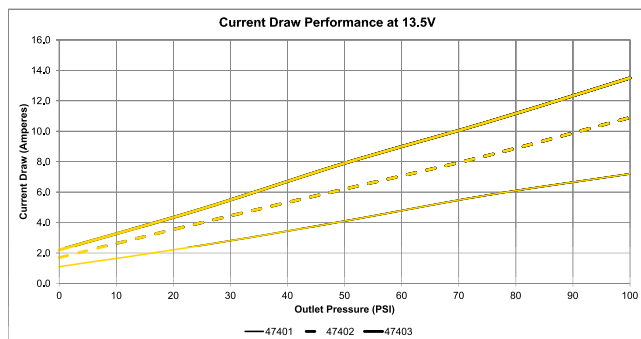
13.5v RATED UP TO

47401 ...250 LPH @ 45psi, **625HP**

- When the focus is efficiency

PUMP FEATURES

- Compatible with gasoline, diesel, methanol and ethanol
- Twin Screw Rotor Pumping Mechanism
- 125PSI Max Operating Pressure
- Higher efficiency means less current draw and less noise
- Superior Priming Capabilities
- Greater resistance to cavitation (vapor lock)
- Backed by a 2-year limited warranty



13.5v RATED UP TO

47402 ...350 LPH @ 45psi, **850HP**

- Great for daily driving or the track

MOTOR FEATURES

- Lightweight super-efficient DC brushless motor to minimize current draw
- Powerful high flux density Neodymium rare earth magnets
- No motor brushes to wear out or corrode (low-Sulfur diesel, no problem)
- Wet motor design, no dynamic shaft seals that can wear out

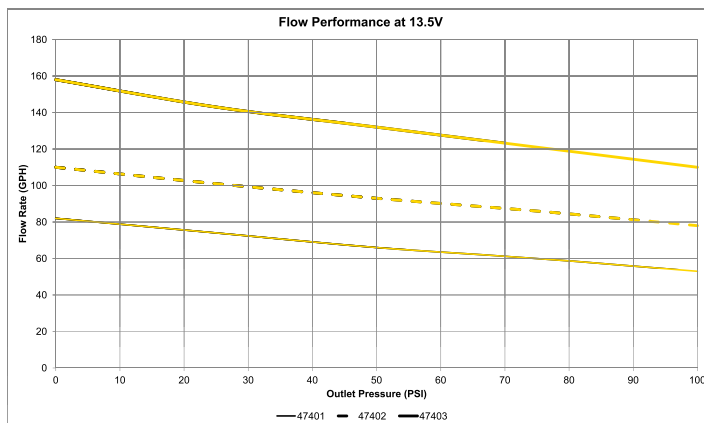
13.5v RATED UP TO

47403 .500 LPH @ 45psi, **1250+HP**

- The pinnacle of power & efficiency

ELECTRONIC FEATURES

- 12 volt vehicle electrical system compatibility
- No expensive voltage regulators or pump controllers required
- Continuous duty motor speed



H/E SERIES BRUSHLESS TWIN SCREW PUMPS



484 SERIES IN-TANK

13.5v RATED UP TO
48401 ...250 LPH @ 45psi, **625HP**

13.5v RATED UP TO
48402 ...350 LPH @ 45psi, **850HP**

13.5v RATED UP TO
48403 .500 LPH @ 45psi, **1250+HP**

PUMP FEATURES

- Compatible with gasoline, diesel, methanol and ethanol
- Twin Screw Rotor Pumping Mechanism
- 125PSI Max Operating Pressure
- Higher efficiency means less current draw and less noise
- Superior Priming Capabilities
- Greater resistance to cavitation (vapor lock)
- 2-year limited warranty

MOTOR FEATURES

- Lightweight super-efficient DC brush-less motor to minimize current draw
- Powerful high flux density Neodymium rare earth magnets
- No motor brushes to wear out or corrode (low-Sulfur diesel, no problem)
- Wet motor design, no dynamic shaft seals that can wear out

ELECTRONIC FEATURES

- 12 volt vehicle electrical system compatibility
- Variable duty motor speed
- Can be run by existing vehicle outputs for brushless control or our 7200x Series Controller

CONSTRUCTION FEATURES

- Compact, lightweight design, less than 1.5lbs. Overall length 6.5", diameter 2"
- Billet Aluminum construction with anodize per MIL-A-8625 Type II
- Can be mounted in-tank or externally
- Long life, multi-fuel compatible Fluorosilicone static seals
- Accepts standard or port-style -8AN fittings

EXTERNALLY MOUNTED ELECTRONIC DC BRUSHLESS FUEL PUMP CONTROLLER

Enclosed in a billet aluminum case, this externally mounted Electronic Fuel Pump Controller operates DC Brushless Fuel Pumps. Available in various speed control options, this compact system can operate up to 20 Amps and 17 volts. This controller is ONLY compatible with DC Brushless based pumps and is NOT compatible with standard brush style

pumps nor DC Brushless Fuel Pumps that have integrated controllers.

72001 ... No Speed Control (Full Speed)

72002PWM Input Signal (Variable Speed)

72003 0-5v Input Signal (Variable Speed)



NEW FOR 2020!



BULKHEAD FUEL TANK

FEED THRU 74101
This Bulkhead Fuel Tank Feed Thru, for -8AN female port or 3/4" thru hole, allows for a 3 wire 16ga connection.

IN-TANK FUEL SOCK..... 83811

This In-Tank Fuel Sock features 65 micron nylon mesh with -8AN adapter fitting, for use with 484xx and 939xx Series Pumps.

H/E SERIES IN-TANK KIT

..... 20801
Get all the components you need to install big horsepower support. The 20801 Kit comes with our 48403 500LPH Pump, 72002 Controller, 74101 Feed Thru, 83811 Straining Filter and accessories to give you 1200HP support in a drop-in single pump package.





FUEL SURGE TANK SYSTEMS

FUELAB offers Fuel Surge Tank Systems designed to prevent fuel starvation due to fuel surge or limited tank baffling. Particularly suitable for vehicle racing such as circuit, drift and off-road use where fast changes in G-forces can allow air to be picked up by the main fuel pump. Fuel Surge Tank Systems maintain a small amount of fuel to operate its own internal fuel pump(s) that can supply high fuel flow rates, while only needing low fuel pressure from the main fuel tank pump.

*Shown is a combination of
60712 Fuel Surge Tank,
23902 Accessory Kit,
84832-1 Filter Assembly, and
45102 Billet Filter Bracket*



PRODUCT FEATURES:

- Allows for high fuel flow output with little or no modifications to the OE fuel tank and module
- Prevents fuel surge by maintaining ready volume of fuel
- Two sizes available (rated volume: 2.7 L and 2.1 L / height 290mm and 235mm)
- Single and dual 340 LPH internal fuel pump versions available
- Billet aluminum and O-ring Construction using -8AN Fuel Ports
- Compatible with Pump and Racing Gasoline, and E85
- Return line is required, returns excess fuel back to the vehicle fuel tank
- Optional FST Upgrade Accessory Kit Sold Separately - Includes Floor Mount Bracket, Hardware, XRP PRO PLUS Hose Assembly and 90 degree high flow fitting

FUEL SURGE TANK SYSTEM

60701	E85 Compatible, Single 340lph, 235mm Tall
60702	E85 Compatible, Dual 340lph, 235mm Tall
60711	E85 Compatible, Single 340lph, 290mm Tall
60712	E85 Compatible, Dual 340lph, 290mm Tall



FUEL SURGE TANK SYSTEMS



BRUSHLESS FUEL SURGE TANK SYSTEM

Our latest entry into cutting edge fuel system products is our 617 Series Fuel Surge Tank Systems. These 2.1L or 2.7L Fuel Surge Tank Systems utilize our H/E Series brushless twin-screw pumps with integrated controller electronics and PWM speed control. 6 models are available in 250lph, 350lph, and 500lph flow configurations to support up to 1250 horsepower. For maximum efficiency delivering in circuit, drift, or off-road use where fast changes in G-Forces are an issue, this system eliminates fuel slosh problems even with low fuel levels. Compatible with gasoline, ethanol and methanol fuels.

PRODUCT FEATURES:

- Allows for high fuel flow output with little or no modifications to the OE fuel tank and module
- Prevents fuel surge by maintaining ready volume of fuel
- FST Rated volume: 2.1L and 2.7L
- Single Twin Screw DC Brushless fuel pump
- Rated to flow 250, 350, or 500lph at 45psi, 125psi max
- Integrated controller and O-Ring construction using -8AN Fuel Ports
- Compatible with Pump and Racing gasoline and E85
- Return line is required, returns excess fuel back to the vehicle fuel tank
- Optional FST Upgrade Accessory Kit sold separately - Includes floor mount bracket, hardware, hose assembly and 90 degree fitting

H/E SERIES BRUSHLESS SCREW PUMP FUEL SURGE TANK SYSTEM

61701	250LPH, 235mm Tall
61702	350LPH, 235mm Tall
61703	500LPH, 235mm Tall
61711	250LPH, 290mm Tall
61712.....	350LPH, 290mm Tall
61713.....	500LPH, 290mm Tall



FST UPGRADE ACCESSORY KITS

- 23901..... FST Upgrade Accessory Kit for 235mm Tall
(Includes Floor Mount Bracket, Hardware, XRP PRO PLUS Hose Assembly and 90 degree high flow fitting)
- 23902..... FST Upgrade Accessory Kit for 290mm Tall
(Includes Floor Mount Bracket, Hardware, XRP PRO PLUS Hose Assembly and 90 degree high flow fitting)

FLANGE MOUNT BRUSHLESS TWIN SCREW PUMPS

NEW FOR 2020!

Our new speed controllable, twin screw DC brushless fuel pump is now available for SAE 10-Bolt systems, commonly used with fuel cells or fabricated reservoirs. Able to support 1200 horsepower at 60psi while consuming less than 10A of current, it's one of the most efficient single pump offerings available anywhere. Great for boosted applications as well as with 100psi pressure capability while still exceeding 400lph and only 13A of current draw. Intended for OE Fuel Tank or Reservoir Manufacturer's use, this pumping system requires an inlet straining filter system, mating surface, mount hardware and seals typically sourced by manufacturer. Consult Fuelab for greater detail. Acceptable tank depth range is between 7-3/4" and 16".

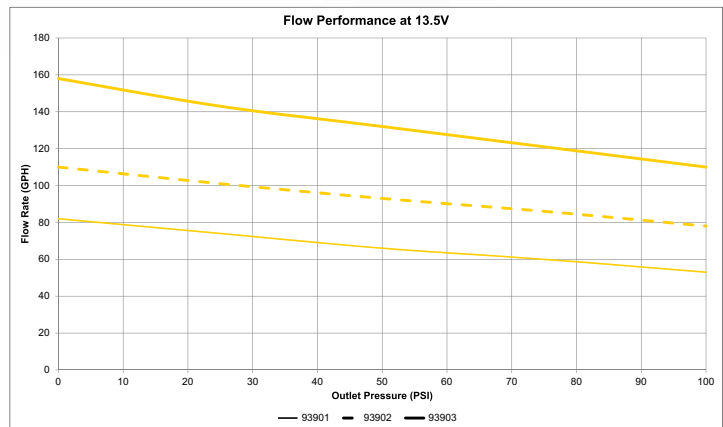
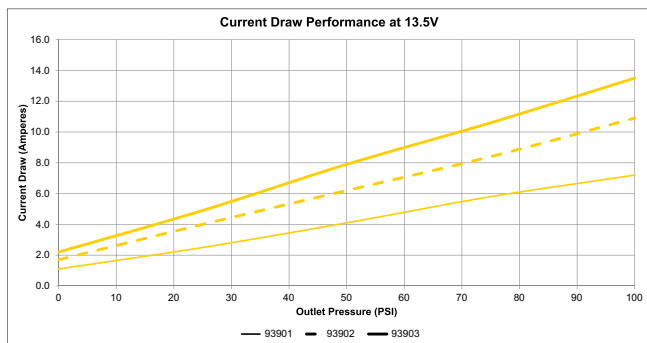


H/E SERIES FLANGE MOUNT BRUSHLESS SCREW PUMP

93901.....	250lph @ 45psi, 625HP
93902.....	350lph @ 45psi, 850HP
93903.....	500lph @ 45psi, 1250+HP

PRODUCT FEATURES

- Flange Mounted SAE 10-bolt pattern for easy use with fuel cells or fabricated reservoirs
- Twin Screw Rotor Pumping mechanism
- Lightweight super-efficient DC brushless motor to minimize current draw
- 12 volt vehicle electrical system compatibility
- Integrated Controller with PWM Speed Control
- Compatible with gasoline, diesel, methanol, and ethanol
- Rated to flow 250, 350, or 500lph @ 45psi, 125psi max
- Compact, lightweight design, less than 2.5lbs. Overall length 8", pump diameter 2"



IN-TANK PUMPS

These FUELAB® high flow, E85 compatible in-tank electric fuel pumps are designed for most popular EFI applications. Compact and lightweight so they're easy to install in many existing hanger assemblies. This series of pumps is set apart from others on the market by offering superior



flow for gas and E85 applications and come serialized with specific flow and current draw

data for each pump we ship. Pumps also come with rubber sleeve, end caps, pre-filters, hose, clamps and wire leads.

Center Inlet
49440



Inlet Offset from Outlet
49441



Inlet Inline with Outlet
49442



Inlet Inline with Outlet
49469

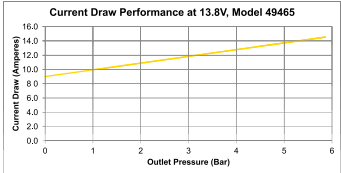
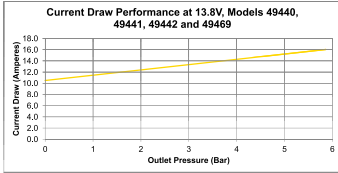
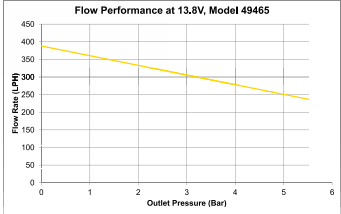
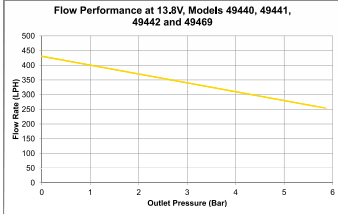


Inlet Inline with Outlet
49465



PUMP FEATURES:

- Flows 340LPH @ 3bar, 13.5v (90GPH @ 45psi)
- Internal Check Valve
- Maximum Pressure - 5.9 Bar (85psi)
- Can be used in carbureted and EFI applications
- Each pump is individually tested for performance and includes flow and current draw report
- Designed for in-tank use only
- Sending Unit not included
- Comes with rubber sleeve, end cap, pre-filter, hose, clamps and wire leads.



495XX SERIES AC LOW PRESSURE LIFT PUMP

These Low Pressure, Low current Draw In-Tank Fuel Pumps are easily adaptable for fit any fuel tank or fuel cell. Gasoline and ethanol compatible, these pumps are perfectly suited for transferring fuel out of saddle tanks or can be used to feed an external Fuel Surge Tank or Collector. Install multiple pumps to scavenge fuel from various sections of the tank to feed a main Collector. Available in three different outlet styles including nipple, -6AN and SAE connections. Simple ring terminal style power connections, light weight, and includes a straining filter to make these pumps not only versatile but easy to install. Flows 160lph @ free flow.



495XX AC STYLE IN-TANK LIFT PUMP

- 49501 9mm Nipple Outlet
- 49502 -6AN Male Outlet
- 49503 3/8" SAE Male Outlet

FUEL PRESSURE REGULATORS



FUELAB® fuel pressure regulators are true precision instruments. Our designs stand above others in reliability, flexibility and performance. Bypass, blocking, and electronically controlled regulators are all based on using the best quality components and proprietary materials to give

our customers what they need – precise, stable fuel pressure control. All FUELAB® regulators are machined from 6061-T6 billet aluminum, hand assembled, serialized, and come with a 2 year limited warranty.



FUEL PRESSURE REGULATORS



FUELAB® 515/525 Series Fuel Pressure Regulators are designed with performance and flexibility in mind. They accept port style and non-port style union fittings without interference. Several configurations are available, supporting carbureted applications as low as 1 PSID to fuel injected applications up to 125 PSID. The 515 Series Fuel Pressure Regulator has a -6AN return port located on the bottom. The 525 Series has its return port in-line with the inlet port (not on the bottom) which allows for easy installation in extremely tight locations.

515XX Bottom Return Port **REGULATOR**

- Two -6AN or -10AN inlet and one -6AN return port

Product No.	Inlet	Seat Size	Pressure Range
51501-C	-10AN	Standard	EFI 25-90 PSID
51502-C	-6AN	Standard	EFI 25-90 PSID
51503-C	-10AN	Large	CARB 4-12 PSID
51504-C	-6AN	Large	CARB 4-12 PSID
51505-C-S-P	-10AN	Custom	Custom
51506-C-S-P	-6AN	Custom	Custom

525XX In-Line Return Port **REGULATOR**

- Easy installation in extremely tight locations
- -6AN inlet and -6AN return port in-line

Product No.	Inlet	Seat Size	Pressure Range
52501-C	-6AN	Standard	EFI 25-90 PSID
52502-C	-6AN	Large	CARB 4-12 PSID
52503-C-S-P	-6AN	Custom	Custom

FEATURES:

- Gasoline, diesel, methanol, and ethanol fuel compatible
- Billet Aluminum with anodize per military MIL-A-8625, Type II
- Fine thread adjustment for precise pressure adjustment
- Versatile mounting bracket and stainless steel hardware
- 1/8" NPT gauge port with plug for external pressure gauge
- 1/8" NPT pressure reference port with barbed fitting
- Backed by a 2-year limited warranty

PRESSURE OPTIONS:

For a custom Fuel Pressure Regulator please refer to these options and select (S) Seat Size and (P) Pressure Range.

SEAT SIZE

- S Standard seat (return orifice)
- L Large seat (return orifice)

PRESSURE RANGE

- L 1-3 PSID (approximate)
- C 4-12 PSID (approximate)
- T 10-25 PSID (approximate)
- E 25-90 PSID (approximate)
- G 90-125 PSID (approximate)

COLOR OPTIONS

Add the color number shown below after the part number when ordering - ie: 51501-2 for a red 51501 Regulator. Actual colors may vary.



MINI REGULATORS



FUELAB® 535/545 Series Fuel Pressure Regulators have all the same great features as our 515/525 series, only smaller and weigh 50% less. They accept port style and non-port style union fittings without interference. Several configurations are available, supporting carbureted applications as

low as 10 PSID to fuel injected applications up to 125 PSID. The 535 Series Fuel Pressure Regulator has a -6AN return port located on the bottom. The 545 Series has its return port in-line with the inlet port (not on the bottom) which allows for easy installation in extremely tight locations.

535XX..... DUAL INLET REGULATOR

- Two -6AN inlet ports and one -6AN return port

Product No.	Inlet	Seat Size	Pressure Range
53501-C	-6AN	Standard	EFI 25-90 PSID
53502-C-P	-6AN	Standard	Custom

545XX..... EASY FIT In-Line REGULATOR

- In-Line style makes easy installation as Universal rail mount

- -6AN inlet and -6AN return port in-line

Product No.	Inlet	Seat Size	Pressure Range
54501-C	-6AN	Standard	EFI 25-90 PSID
54502-C-P	-6AN	Standard	Custom

FEATURES:

- Gasoline, diesel, methanol, and ethanol fuel compatible
- Billet Aluminum with anodize per military MIL-A-8625, Type II
- Fine thread pitch for precise pressure adjustment
- Versatile mounting bracket and stainless steel hardware
- 1/8" NPT gauge port with plug for external pressure gauge
- 1/8" NPT pressure reference port with barbed fitting
- Backed by a 2-year limited warranty

PRESSURE OPTIONS:

For a custom Fuel Pressure Regulator please refer to these options and select desired (P) Pressure Range.

PRESSURE RANGE

- T 10-25 PSID (approximate)
- E 25-90 PSID (approximate)
- G 90-125 PSID (approximate)

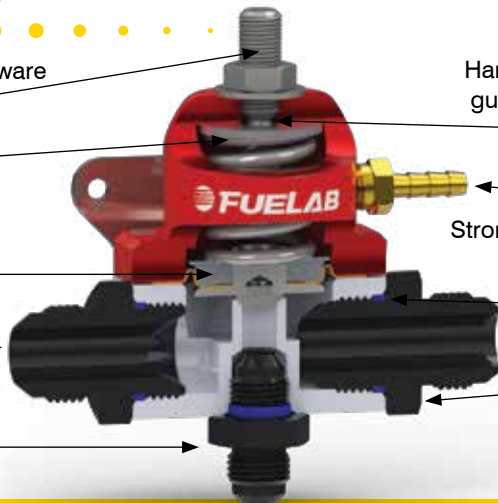
Fine thread pitch on adjustment hardware for precise pressure adjustment

Assortment of pressure ranges Available

Lightweight fluorosilicone diaphragm assembly reduces hydraulic pressure fluctuations

Port style fittings are recommended for reduced pressure drop

-6AN return port is located on the bottom (525/545 series return port is in-line with inlet)



Hardened precision steel ball pressed into spring guide maintains consistent spring positioning for repeatable pressure settings

1/8" NPT port accommodates wide range of plumbing options
Strong barbed fitting included except model 555xx

AN or military o-ring style fittings provide reliable leak-free performance

Accepts non-port style union fittings without any interference



FUEL PRESSURE REGULATORS



FUELAB® 555 Series Fuel Pressure Regulators are true precision instruments designed to regulate fuel. These units feature an advanced aerospace poppet design for smooth regulating capability. We've also incorporated a no-creep soft seat that's methanol and E85 compatible. Models adjustable from 1 psi up to 65 psi. Perfect for single and multi-stage nitrous applications!

FEATURES:

- A true precision instrument to regulate fuel
- Advanced poppet design for smooth regulating capability
- Gasoline, diesel, methanol, and ethanol fuel compatible
- Methanol compatibility with a No-creep soft seat
- Billet Aluminum with anodize per military MIL-A-8625, Type II
- Fine thread pitch for precise pressure adjustment
- Versatile mounting bracket and stainless steel hardware
- 1/8" NPT gauge port with plug for external pressure gauge
- 1/8" NPT breather vent

555XX.....BLOCKING STYLE REGULATOR

- -8AN Inlet and dual -8AN Outlet

Product No.	Inlet	Seat Size	Pressure Range
55501-C	-8AN	Large	4-12 PSI
55502-C	-8AN	Large	1-3 PSI
55503-C	-8AN	Large	10-25 PSI
55504-C	-8AN	Large	25-65 PSI

575XX.....MINI BLOCKING STYLE REGULATOR

- -6AN Inlet and dual -6AN Outlet

Product No.	Inlet	Seat Size	Pressure Range
57501-C	-6AN	Large	4-12 PSI
57502-C	-6AN	Large	1-3 PSI
57503-C	-6AN	Large	10-25 PSI
57504-C	-6AN	Large	25-65 PSI

FUELAB 565 Series Fuel Pressure Regulators have all of the same great features as our 515/525 Series except for extreme capacity. With the bypass capability over 5 GPM at 5 PSI, this regulator can handle blow through carbureted applications well over 1800 H.P., and for EFI applications using belt driven fuel pumps; even further (with a flattened regulation slope). Regulator comes in four different pressure ranges covering applications between 4 and 80 PSI.



FEATURES:

- Gasoline, diesel, methanol and ethanol fuel compatible
- Billet Aluminum with anodize per military MIL-A-8625, Type II
- Fine Thread pitch for precise pressure adjustment
- Versatile mounting bracket and stainless steel hardware
- 1/8" NPT gauge port with plug for external pressure gauge
- 1/8" NPT pressure reference port with barbed fitting
- 1.75" sized diaphragm
- Two -10AN inlets, one -10AN return port
- Backed by a 2-year limited warranty
- Available in black only

565XX.....EXTREME CAPACITY REGULATOR

Product No.	Description	Pressure Range
56501-1	EFI Applications	25-65 PSID
56502-1	Carbureted Applications	4-12 PSID
56503-1	Throttle Body / Other	10-25 PSID
56504-1	EFI High Pressure Apps	40-80 PSID

The 585xx Series Fuel Pressure Regulator expands the line of Blocking Style (non-bypass) Regulators like our 555xx and 575xx Series, in a Traditional 4-Port Package. The main seat assembly can be quickly exchanged in case of seat damage, such as debris. The seat assembly can be taken apart further to enable o-ring replacement of the Soft-Seat design. With Dual -10AN Inlet Ports and Four -6AN Outlet Ports (port spread allows for -8AN line size) gives the regulator ability for extremely high flowrates with a flattened curve for pressure stability through its use of a 1.5 inch diaphragm assembly.



585XX.....4 PORT HIGH FLOW BLOCKING STYLE REGULATOR

- Dual -10AN Inlet and four -6AN Outlet

Prod. No.	Inlet	Outlet	Seat Size	Pressure Range
58501	2x -10AN	4x -6AN	Large	4-12 PSI
58502	2x -10AN	4x -6AN	Large	2-4 PSI

ELECTRONIC FPR



Our electronic fuel pressure regulator works directly with our Prodigy line of fuel pumps to reduce heat build up and vapor lock conditions. Set the pressure mechanically like a traditional bypass regulator, then let the electronic regulator's demand based speed control take care of the rest! The Fuelab electronic fuel pressure regulator generates a signal to the Prodigy pump, to control the return line flow rate. This feature reduces current draw while at low engine output, to prevent fuel overheating that leads to fuel system failure. With the FUELAB demand based system, true pump control is finally achievable and easy to install!

FEATURES:

- Works with Fuelab Prodigy Fuel Pumps, Power Modules and 72002 Controller.
- Patented method for demand based flow control, able to detect changes in demand before change in rail pressure is realized. U.S. Patent 7,810,470
- Automatically reduces current draw at low flow demand.
- Monitoring capability to track actual fuel system capacity.
- Get the quick response of a mechanically regulated system, with the advantage of electronic flow control.
- Independent system, no other connections, control boxes or calibration required.

529XXIN-LINE REGULATOR

- On demand fuel delivery made easy!
- Fittings Included
- Wiring Harness Included

Product No.	Inlet	Seat Size	Pressure Range
52901-C	-6AN	Standard	EFI 25-90 PSID
52902-C	-8AN	Standard	EFI 25-90 PSID
52903-C-P	-6AN	Standard	Custom
52904-C-P	-8AN	Standard	Custom

Pressure Range

- T 15-25 PSID (approximate)
- E 25-90 PSID (approximate)
- G 90-125 PSID (approximate)



COLOR OPTIONS

Add the color number shown below after the part number when ordering - ie: 52901-2 for a red 52901 Regulator.

Actual colors may vary.

COLOR CODE	COVER COLOR	BODY COLOR
1	Black	Black
2	Red	Clear
3	Blue	Clear
4	Purple	Clear
5	Gold	Black
6	Green	Clear



FUEL FILTERS



IN-LINE FUEL FILTERS

FUELAB® In-Line Fuel Filters keep your engine running clean. They feature male AN / 37° Flared fitting end caps, so you can attach them directly to other fuel system components*.

Also featured are machined internal radii for minimal pressure drop. The compact 818 Series Fuel Filter includes a 3 inch element. For greater flow capacity and increased filtration the larger 828 Series Fuel Filter is equipped with a 5 inch element. (10 Micron / Paper elements are NOT compatible with Methanol or E85 usage).
*With AN female ports. O-ring required. Consult component manufacturer's port specifications.



FEATURES:

- Gasoline, diesel, methanol, and ethanol fuel compatible
- Billet Aluminum with anodize per military MIL-A-8625, Type II
- -6AN, -8AN, -10AN or -12AN male inlets and outlets
- Includes low profile saddle clamp mounting bracket(s)
- Replaceable or cleanable filter element
- 200 PSIG maximum pressure rating
- Backed by a 2-year limited warranty

INLET/OUTLET OPTIONS:

For a custom Fuel Filter please refer to these options and select (I) Inlet and (O) Outlet flare fitting ends.
6 -6AN male 37° flare fitting end
8 -8AN male 37° flare fitting end
10 -10AN male 37° flare fitting end
12 -12AN male 37° flare fitting end

818XX WITH 3" ELEMENT FILTER

• Compact design supports 200 GPH

Product No.	Filter Element	Inlet/Outlet
81800-C-I-O	10 micron / Paper	Custom
81801-C	10 micron / Paper	-6AN
81802-C	10 micron / Paper	-8AN
81803-C	10 micron / Paper	-10AN
81804-C	10 micron / Paper	-12AN
81810-C-I-O	40 micron / Stainless Steel	Custom
81811-C	40 micron / Stainless Steel	-6AN
81812-C	40 micron / Stainless Steel	-8AN
81813-C	40 micron / Stainless Steel	-10AN
81814-C	40 micron / Stainless Steel	-12AN
81820-C-I-O	100 micron / Stainless Steel	Custom
81821-C	100 micron / Stainless Steel	-6AN
81822-C	100 micron / Stainless Steel	-8AN
81823-C	100 micron / Stainless Steel	-10AN
81824-C	100 micron / Stainless Steel	-12AN
81830-C-I-O	6 micron / Fiberglass	Custom
81831-C	6 micron / Fiberglass	-6AN
81832-C	6 micron / Fiberglass	-8AN
81833-C	6 micron / Fiberglass	-10AN
81834-C	6 micron / Fiberglass	-12AN

828XX WITH 5" ELEMENT FILTER

- Less pressure drop (works great as a pre-filter)
- Greater flow capacity
- Increased filtration capacity
- Reduced maintenance frequency

Product No.	Filter Element	Inlet/Outlet
82800-C-I-O	10 micron / Paper	Custom
82801-C	10 micron / Paper	-6AN
82802-C	10 micron / Paper	-8AN
82803-C	10 micron / Paper	-10AN
82804-C	10 micron / Paper	-12AN
82810-C-I-O	40 micron / Stainless Steel	Custom
82811-C	40 micron / Stainless Steel	-6AN
82812-C	40 micron / Stainless Steel	-8AN
82813-C	40 micron / Stainless Steel	-10AN
82814-C	40 micron / Stainless Steel	-12AN
82820-C-I-O	100 micron / Stainless Steel	Custom
82821-C	100 micron / Stainless Steel	-6AN
82822-C	100 micron / Stainless Steel	-8AN
82823-C	100 micron / Stainless Steel	-10AN
82824-C	100 micron / Stainless Steel	-12AN
82830-C-I-O	6 micron / Fiberglass	Custom
82831-C	6 micron / Fiberglass	-6AN
82832-C	6 micron / Fiberglass	-8AN
82833-C	6 micron / Fiberglass	-10AN
82834-C	6 micron / Fiberglass	-12AN

COLOR OPTIONS

Add the color number shown below after the part number when ordering - ie: 81801-2 for a red 81801 Regulator. Actual colors may vary.



IN-LINE FUEL FILTERS



Models 848xx and 858xx integrated check valve and filter assemblies allow your fuel system to maintain fuel pressure after engine and pump shut down. Using a check valve in your fuel system helps prevent vapors building up in your fuel rails during engine cooling. Having a check valve will also help maintain fuel pressure during engine start-up.

FEATURES

848XX

- Integrated Check Valve Assembly with filter
- Helps maintain fuel pressure after shut-down
- Methanol and ethanol compatible
- 3 inch element

Our Check Valves are also Methanol, Ethanol, gasoline, and diesel fuel compatible (10 Micron / Paper elements are NOT compatible with Methanol or E85 usage). Since we integrate these two components, the check valve assembly is protected by the filter. No more scrambling to add a separate component and adapting it for your fuel system with extra fittings. Fuelab has both, all in one.

858XX

- Integrated Check Valve Assembly with filter
- Helps maintain fuel pressure after shut-down
- Methanol and ethanol compatible
- Greater flow capacity
- Increased filtration capacity
- 5 inch element

848XX RATED UP TO 1000HP

STANDARD FLOW INTEGRATED FILTER/CHECK VALVE

Product No.	Filter Element	Inlet/Outlet
84800-C-I-O	10 Micron / Paper Custom *	
84801-C	10 Micron / Paper -6 AN	
84802-C	10 Micron / Paper -8 AN	
84810-C-I-O	40 Micron / Stainless Steel Custom *	
84811-C	40 Micron / Stainless Steel -6 AN	
84812-C	40 Micron / Stainless Steel -8 AN	
84820-C-I-O	100 Micron / Stainless Steel Custom *	
84821-C	100 Micron / Stainless Steel -6 AN	
84822-C	100 Micron / Stainless Steel -8 AN	
84830-C-I-O	6 Micron / Fiberglass Custom *	
84831-C	6 Micron / Fiberglass -6 AN	
84832-C	6 Micron / Fiberglass -8 AN	

*The custom size 848x0 models allows for -6AN or -8AN outlet fitting size only. Inlet size can be -6AN, -8AN, -10AN or -12AN inlet sizes.

858XX RATED UP TO 2000HP

HIGH FLOW INTEGRATED FILTER/CHECK VALVE

Product No.	Filter Element	Inlet/Outlet
85800-C-I-O	10 Micron / Paper Custom **	
85801-C	10 Micron / Paper -8 AN	
85802-C	10 Micron / Paper -10 AN	
85810-C-I-O	40 Micron / Stainless Steel Custom **	
85811-C	40 Micron / Stainless Steel -8 AN	
85812-C	40 Micron / Stainless Steel -10 AN	
85820-C-I-O	100 Micron / Stainless Steel Custom **	
85821-C	100 Micron / Stainless Steel -8 AN	
85822-C	100 Micron / Stainless Steel -10 AN	
85830-C-I-O	6 Micron / Fiberglass Custom **	
85831-C	6 Micron / Fiberglass -8 AN	
85832-C	6 Micron / Fiberglass -10 AN	

**The custom size 858x0 models allows for -8AN or -10AN outlet fitting size only. Inlet size can be -6AN, -8AN, -10AN or -12AN inlet sizes.



→ Aerospace inspired poppet

→ Fluorosilicone soft seat for methanol/ethanol compatibility

ACCESSORIES





718XXREPLACEMENT ELEMENTS

10micron / Paper Element (Cellulose)

The most economical and commonly used element. It is disposable yet provides excellent filtration. Compatible with Gasoline and Diesel only.

40micron / Stainless Steel Element

Made for harsh racing conditions and ultimate fuel compatibility. It is cleanable and does not necessarily require replacement for maintenance.

100micron / Stainless Steel Element

This filter element should only be used as a pre-filter for fuel pumps*. It helps prevent pump cavitation with an extremely low pressure drop.

6micron / Micro-Fiberglass Element

Our most advanced filter element provides extra particle protection and reduces maintenance requirements with improvements in filter efficiency. This element is disposable and not to be cleaned.

*A finer micron rated element is recommended to protect injectors and carburetors downstream of fuel pump.

718XXREPLACEMENT FILTER ELEMENT

Product No.	Filter Size	Replacement Type
71801	3 Inch Element	10 micron / Paper
71802	3 Inch Element	40 micron / Stainless
71803	3 Inch Element	100 micron / Stainless
71804	3 Inch Element	6 micron / Fiberglass
71805	5 Inch Element	10 micron / Paper
71806	5 Inch Element	40 micron / Stainless
71807	5 Inch Element	100 micron / Stainless
71808	5 Inch Element	6 micron / Fiberglass



83801RATED UP TO 1800HP

IN-TANK STRAINING FILTER

This 100Micron Stainless Steel Filter can be used for straining in-tank installations. The "Sock" design allows for -10AN Pick-Up designs as well. Kit includes cleanable element and -10AN fitting adapter.



GAUGES

EFI FUEL PRESSURE

Fuelab 1.5 Inch Fuel Pressure Gauge EFI, Range: 0-120 PSI

FEATURES:

- Black Casing
- 1.5 Inch Diameter White Face, with Black Text
- 1/8-NPT Direct Mount
- For reference use on Regulators or Fuel Rails with Gauge Ports
- Not for use in Passenger or Driver's Compartments

CARBURETED FUEL PRESSURE

Fuelab 1.5 Inch Fuel Pressure Gauges Carbureted, Range: 0-15 PSI

FEATURES:

- Black Casing
- 1.5 Inch Diameter White Face, with Black Text
- 1/8-NPT Direct Mount
- For reference use on Regulators or Fuel Rails with Gauge Ports
- Not for use in Passenger or Driver's Compartments

715XXEFI AND CARBURETED GAUGES

Product No.	Type
71501	EFI Fuel Pressure Gauge
71502	Carbureted Fuel Pressure Gauge
71511	EFI Fuel Pressure Gauge Dual BAR/PSI Scale
71512	Carbureted Fuel Pressure Gauge Dual BAR/PSI Scale

BILLET BRACKETS

Extremely lightweight and strong racing billet brackets with steel inserts. Get the extra strength with a truly custom look.



451XXBILLET BRACKETS

Model	Mounting	Application	No. Brackets
45101	Plate	Prodigy Fuel Pump	2
45102	Plate	Fuelab Filter	1
45103	Cage	Prodigy Fuel Pump	2
45104	Cage	Fuelab Filter	1
45105	Plate	Prodigy Fuel Pump / Fuelab Filter	2
45106	Cage	Prodigy Fuel Pump / Fuelab Filter	2

ORDERING:

Operating hours are Monday through Friday, 8:00 AM to 5:00 PM Central Time. We can be phoned Worldwide at 618.344.3300, orders can be faxed to 844.272.1189 or email us at info@fuelab.com.

TERMS:

All orders will be shipped COD or prepaid via credit card unless approved for open terms prior to ordering. We accept Visa, Master Card, American Express and Discover Card.

SHIPPING:

FOB Collinsville, IL. We ship Federal Express unless otherwise specified. Customers may authorize expedited shipments for an additional charge. Open or concealed freight damage claims must be made to the freight carrier. Damaged merchandise should not be returned to FUELAB® unless prior authorization has been obtained.

RETURNS:

Any returned merchandise must have prior approval from FUELAB® before shipping. A return material authorization number will be assigned to any return and must be clearly marked on shipment packaging. Shipping charges on returned items must be prepaid.

WARRANTY CLAIMS:

FUELAB® warrants that products sold under terms of our limited warranty will be free from defects in material and workmanship for a period of (2) years from the date of purchase to the original purchaser. Merchandise returned for inspection or repair must be sent prepaid and insured. Warranty claims must include senders name and address, an explanation of the problem, a return material authorization number, and a telephone number where the sender can be reached.

LIMITATION OF REMEDIES:

If any FUELAB® product is found to be defective under terms of our limited warranty, buyer's exclusive remedy is reimbursement of the sale price of the product. Under no circumstances, whether based on our limited warranty or otherwise, shall FUELAB® be liable for incidental, special, or consequential damages.

PRICES:

Prices are subject to change without notice.

FUELAB® fuel system components are capable of altering engine tuning and therefore may not be legal for sale or use on emission controlled motor vehicles.



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