A DECADE OF INNOVATION IN
BRUSHLESS FUEL PUMP TECHNOLOGY

DIGITAL FUEL DELIVERY

FUELAB®

www.FUELAB.com
We launched FUELAB over 10 years ago with the idea of introducing groundbreaking 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 2019 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

DIGITAL FUEL DELIVERY

FUELAB
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 16 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.

**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.

**REDUCED SIZE CARBURETED IN-LINE FUEL PUMP**
This 200GPH free flow rating fuel pump is programmed to deliver the maximum flow with the lowest current draw available. Nothing else like it!

**HIGH PRESSURE EFI IN LINE FUEL PUMP**
The original digital Prodigy fuel pump, great for racing, performance, or off-road use.

**HIGH EFFICIENCY EFI IN LINE FUEL PUMP**
Increase performance capabilities with extra flow for higher powered engines.

<table>
<thead>
<tr>
<th>Color</th>
<th>Part Number</th>
<th>Flow Rate</th>
<th>Horsepower</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>40401</td>
<td>75GPH @ 45PSI</td>
<td><strong>700HP</strong></td>
</tr>
<tr>
<td>2</td>
<td>40402</td>
<td>160GPH @ 10PSI</td>
<td><strong>1200HP</strong></td>
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<tr>
<td>3</td>
<td>41401</td>
<td>105 GPH @ 45 PSI</td>
<td><strong>1000HP</strong></td>
</tr>
<tr>
<td>4</td>
<td>41402</td>
<td>140 GPH @ 45 PSI</td>
<td><strong>1300HP</strong></td>
</tr>
<tr>
<td>5</td>
<td>41403</td>
<td>200 GPH @ 20 PSI</td>
<td><strong>1800HP</strong></td>
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<tr>
<td>6</td>
<td>41404</td>
<td>170 GPH @ 45 PSI</td>
<td><strong>1500HP</strong></td>
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<tr>
<td></td>
<td>42401</td>
<td>190 GPH @ 45 PSI</td>
<td><strong>1800HP</strong></td>
</tr>
</tbody>
</table>
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.

PUMP FEATURES:
- Based on our popular Prodigy Series, but in a new configuration for in-tank applications
- Compatible with gasoline, diesel, methanol and ethanol
- Jet pump compatibility for saddle tanks or internal pumps
- High efficiency 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

ELECTRONIC FEATURES:
- Internal Speed controller for variable flow operation
- 12 to 16 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

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 new 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

FUELAB.COM  618.344.3300
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. Compatible with 12v and 16v electrical systems. 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
  - 47402 ... 350 LPH @ 45psi, 850HP
    - Great for daily driving or the track
  - 47403, 500 LPH @ 45psi, 1250+HP
    - The pinnacle of power & 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

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

ELECTRONIC FEATURES
- 8 to 16-volt vehicle electrical system compatibility
- No expensive voltage regulators or pump controllers required
- Continuous duty motor speed

NEW FOR 2019!

484 SERIES IN-TANK

- 13.5v RATED UP TO
  - 48401 ... 250 LPH @ 45psi, 625HP
  - 48402 ... 350 LPH @ 45psi, 850HP
  - 48403, 500 LPH @ 45psi, 1250+HP

EXTERALLY 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)
72002..........................PWM Input Signal (Variable Speed)
72003..........................0-5v Input Signal (Variable Speed)
FUELAB now 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.

**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 SYSTEMS**

- **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

*Shown is a combination of 60712 Fuel Surge Tank, 23902 Accessory Kit, 84832-1 Filter Assembly, and 45102 Billet Filter Bracket*
NEW FOR 2019!

FUELAB now offers Fuel Surge Tank Systems with our extremely popular H/E Series brushless twin screw pump. Get up to 500 LPH of highly efficient fuel delivery in a package designed to prevent fuel starvation and support over 1250HP in a single pump configuration. A great winning combination! Available in 6 different configurations.

H/E SERIES BRUSHLESS SCREW PUMP
FUEL SURGE TANK SYSTEM

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow Rate</th>
<th>Height</th>
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<tbody>
<tr>
<td>61701</td>
<td>250 LPH</td>
<td>235mm Tall</td>
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<tr>
<td>61702</td>
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<tr>
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<td>500 LPH</td>
<td>235mm Tall</td>
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<tr>
<td>61711</td>
<td>250 LPH</td>
<td>290mm Tall</td>
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<tr>
<td>61712</td>
<td>350 LPH</td>
<td>290mm Tall</td>
</tr>
<tr>
<td>61713</td>
<td>500 LPH</td>
<td>290mm Tall</td>
</tr>
</tbody>
</table>

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

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)
These new 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.

**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.
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.

**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 (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)

**HIGH HORSEPOWER 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

**EASY FIT REGULATOR 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

**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.
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

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Inlet</th>
<th>Seat Size</th>
<th>Pressure Range</th>
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<tbody>
<tr>
<td>53501-C</td>
<td>-6AN</td>
<td>Standard</td>
<td>EFI 25-90 PSID</td>
</tr>
<tr>
<td>53502-C-P</td>
<td>-6AN</td>
<td>Standard</td>
<td>Custom</td>
</tr>
</tbody>
</table>

**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

**545XX.............................................EASY FIT In-Line REGULATOR**
- In-Line style makes easy installation as Universal rail mount
- -6AN inlet and -6AN return port in-line

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Inlet</th>
<th>Seat Size</th>
<th>Pressure Range</th>
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<tr>
<td>54501-C</td>
<td>-6AN</td>
<td>Standard</td>
<td>EFI 25-90 PSID</td>
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<tr>
<td>54502-C-P</td>
<td>-6AN</td>
<td>Standard</td>
<td>Custom</td>
</tr>
</tbody>
</table>

**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)
FUEL® 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

<table>
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<tr>
<th>Product No.</th>
<th>Description</th>
<th>Pressure Range</th>
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<td>-8AN Inlet</td>
<td>4-12 PSI</td>
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<tr>
<td>55502-C</td>
<td>-8AN Inlet</td>
<td>1-3 PSI</td>
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<td>55503-C</td>
<td>-8AN Inlet</td>
<td>10-25 PSI</td>
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<td>55504-C</td>
<td>-8AN Inlet</td>
<td>25-65 PSI</td>
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<td>57501-C</td>
<td>-6AN Inlet</td>
<td>4-12 PSI</td>
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<td>57502-C</td>
<td>-6AN Inlet</td>
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<td>57503-C</td>
<td>-6AN Inlet</td>
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</tr>
<tr>
<td>57504-C</td>
<td>-6AN Inlet</td>
<td>25-65 PSI</td>
</tr>
</tbody>
</table>

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.

**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 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

<table>
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<th>Product No.</th>
<th>Description</th>
<th>Pressure Range</th>
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<tbody>
<tr>
<td>55601-1</td>
<td>EFI Applications</td>
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<td>55602-1</td>
<td>Carbureted Apps</td>
<td>4-12 PSID</td>
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<td>55603-1</td>
<td>Throttle Body / Other</td>
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<td>EFI High Pressure Apps</td>
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<td>58501</td>
<td>2x -10AN Inlet</td>
<td>4-12 PSI</td>
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<tr>
<td>58502</td>
<td>2x -10AN Inlet</td>
<td>2-4 PSI</td>
</tr>
</tbody>
</table>
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’s Prodigy Fuel Pumps.
- 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.

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**529XX IN-LINE REGULATOR**
- On demand fuel delivery made easy!
- Fittings Included
- Wiring Harness Included

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Inlet</th>
<th>Seat Size</th>
<th>Pressure Range</th>
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<td>52901-C</td>
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<tr>
<td>52904-C-P</td>
<td>-8AN</td>
<td>Standard</td>
<td>Custom</td>
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</table>

**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.

<table>
<thead>
<tr>
<th>COLOR CODE</th>
<th>COVER COLOR</th>
<th>BODY COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Black</td>
<td>Black</td>
</tr>
<tr>
<td>2</td>
<td>Red</td>
<td>Clear</td>
</tr>
<tr>
<td>3</td>
<td>Blue</td>
<td>Clear</td>
</tr>
<tr>
<td>4</td>
<td>Purple</td>
<td>Clear</td>
</tr>
<tr>
<td>5</td>
<td>Gold</td>
<td>Black</td>
</tr>
<tr>
<td>6</td>
<td>Green</td>
<td>Clear</td>
</tr>
</tbody>
</table>
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**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Filter Element</th>
<th>Inlet/Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>81800-C-I-O</td>
<td>10 micron / Paper</td>
<td>Custom</td>
</tr>
<tr>
<td>81801-C</td>
<td>10 micron / Paper</td>
<td>-6AN</td>
</tr>
<tr>
<td>81802-C</td>
<td>10 micron / Paper</td>
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<tr>
<td>81803-C</td>
<td>10 micron / Paper</td>
<td>-10AN</td>
</tr>
<tr>
<td>81810-C-I-O</td>
<td>40 micron / Stainless Steel</td>
<td>Custom</td>
</tr>
<tr>
<td>81811-C</td>
<td>40 micron / Stainless Steel</td>
<td>-6AN</td>
</tr>
<tr>
<td>81812-C</td>
<td>40 micron / Stainless Steel</td>
<td>-8AN</td>
</tr>
<tr>
<td>81813-C</td>
<td>40 micron / Stainless Steel</td>
<td>-10AN</td>
</tr>
<tr>
<td>81814-C</td>
<td>40 micron / Stainless Steel</td>
<td>-12AN</td>
</tr>
<tr>
<td>81820-C-I-O</td>
<td>75 micron / Stainless Steel</td>
<td>Custom</td>
</tr>
<tr>
<td>81821-C</td>
<td>75 micron / Stainless Steel</td>
<td>-6AN</td>
</tr>
<tr>
<td>81822-C</td>
<td>75 micron / Stainless Steel</td>
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<tr>
<td>81823-C</td>
<td>75 micron / Stainless Steel</td>
<td>-10AN</td>
</tr>
<tr>
<td>81824-C</td>
<td>75 micron / Stainless Steel</td>
<td>-12AN</td>
</tr>
<tr>
<td>81830-C-I-O</td>
<td>6 micron / Fiberglass</td>
<td>Custom</td>
</tr>
<tr>
<td>81831-C</td>
<td>6 micron / Fiberglass</td>
<td>-6AN</td>
</tr>
<tr>
<td>81832-C</td>
<td>6 micron / Fiberglass</td>
<td>-8AN</td>
</tr>
<tr>
<td>81833-C</td>
<td>6 micron / Fiberglass</td>
<td>-10AN</td>
</tr>
<tr>
<td>81834-C</td>
<td>6 micron / Fiberglass</td>
<td>-12AN</td>
</tr>
</tbody>
</table>

**828XX ....................................WITH 5" ELEMENT FILTER**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Filter Element</th>
<th>Inlet/Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>82800-C-I-O</td>
<td>10 micron / Paper</td>
<td>Custom</td>
</tr>
<tr>
<td>82801-C</td>
<td>10 micron / Paper</td>
<td>-6AN</td>
</tr>
<tr>
<td>82802-C</td>
<td>10 micron / Paper</td>
<td>-8AN</td>
</tr>
<tr>
<td>82803-C</td>
<td>10 micron / Paper</td>
<td>-10AN</td>
</tr>
<tr>
<td>82804-C</td>
<td>10 micron / Paper</td>
<td>-12AN</td>
</tr>
<tr>
<td>82810-C-I-O</td>
<td>40 micron / Stainless Steel</td>
<td>Custom</td>
</tr>
<tr>
<td>82811-C</td>
<td>40 micron / Stainless Steel</td>
<td>-6AN</td>
</tr>
<tr>
<td>82812-C</td>
<td>40 micron / Stainless Steel</td>
<td>-8AN</td>
</tr>
<tr>
<td>82813-C</td>
<td>40 micron / Stainless Steel</td>
<td>-10AN</td>
</tr>
<tr>
<td>82814-C</td>
<td>40 micron / Stainless Steel</td>
<td>-12AN</td>
</tr>
<tr>
<td>82820-C-I-O</td>
<td>75 micron / Stainless Steel</td>
<td>Custom</td>
</tr>
<tr>
<td>82821-C</td>
<td>75 micron / Stainless Steel</td>
<td>-6AN</td>
</tr>
<tr>
<td>82822-C</td>
<td>75 micron / Stainless Steel</td>
<td>-8AN</td>
</tr>
<tr>
<td>82823-C</td>
<td>75 micron / Stainless Steel</td>
<td>-10AN</td>
</tr>
<tr>
<td>82824-C</td>
<td>75 micron / Stainless Steel</td>
<td>-12AN</td>
</tr>
<tr>
<td>82830-C-I-O</td>
<td>6 micron / Fiberglass</td>
<td>Custom</td>
</tr>
<tr>
<td>82831-C</td>
<td>6 micron / Fiberglass</td>
<td>-6AN</td>
</tr>
<tr>
<td>82832-C</td>
<td>6 micron / Fiberglass</td>
<td>-8AN</td>
</tr>
<tr>
<td>82833-C</td>
<td>6 micron / Fiberglass</td>
<td>-10AN</td>
</tr>
<tr>
<td>82834-C</td>
<td>6 micron / Fiberglass</td>
<td>-12AN</td>
</tr>
</tbody>
</table>

**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

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

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.

STANDARD FLOW INTEGRATED FILTER/CHECK VALVE

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Filter Element</th>
<th>Inlet/Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>84800-C-I-O</td>
<td>10 Micron / Paper Custom</td>
<td>-6 AN</td>
</tr>
<tr>
<td>84801-C</td>
<td>10 Micron / Paper -6 AN</td>
<td></td>
</tr>
<tr>
<td>84802-C</td>
<td>10 Micron / Paper -8 AN</td>
<td></td>
</tr>
<tr>
<td>84810-C-I-O</td>
<td>40 Micron / Stainless Steel Custom</td>
<td>-6 AN</td>
</tr>
<tr>
<td>84811-C</td>
<td>40 Micron / Stainless Steel -6 AN</td>
<td></td>
</tr>
<tr>
<td>84812-C</td>
<td>40 Micron / Stainless Steel -8 AN</td>
<td></td>
</tr>
<tr>
<td>84820-C-I-O</td>
<td>75 Micron / Stainless Steel Custom</td>
<td>-6 AN</td>
</tr>
<tr>
<td>84821-C</td>
<td>75 Micron / Stainless Steel -6 AN</td>
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<tr>
<td>84822-C</td>
<td>75 Micron / Stainless Steel -8 AN</td>
<td></td>
</tr>
<tr>
<td>84830-C-I-O</td>
<td>6 Micron / Fiberglass Custom</td>
<td>-6 AN</td>
</tr>
<tr>
<td>84831-C</td>
<td>6 Micron / Fiberglass -6 AN</td>
<td></td>
</tr>
<tr>
<td>84832-C</td>
<td>6 Micron / Fiberglass -8 AN</td>
<td></td>
</tr>
</tbody>
</table>

*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.

HIGH FLOW INTEGRATED FILTER/CHECK VALVE

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Filter Element</th>
<th>Inlet/Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>85800-C-I-O</td>
<td>10 Micron / Paper Custom</td>
<td>-8 AN</td>
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<tr>
<td>85801-C</td>
<td>10 Micron / Paper -8 AN</td>
<td></td>
</tr>
<tr>
<td>85802-C</td>
<td>10 Micron / Paper -10 AN</td>
<td></td>
</tr>
<tr>
<td>85810-C-I-O</td>
<td>40 Micron / Stainless Steel Custom</td>
<td>-8 AN</td>
</tr>
<tr>
<td>85811-C</td>
<td>40 Micron / Stainless Steel -8 AN</td>
<td></td>
</tr>
<tr>
<td>85812-C</td>
<td>40 Micron / Stainless Steel -10 AN</td>
<td></td>
</tr>
<tr>
<td>85820-C-I-O</td>
<td>75 Micron / Stainless Steel Custom</td>
<td>-8 AN</td>
</tr>
<tr>
<td>85821-C</td>
<td>75 Micron / Stainless Steel -8 AN</td>
<td></td>
</tr>
<tr>
<td>85822-C</td>
<td>75 Micron / Stainless Steel -10 AN</td>
<td></td>
</tr>
<tr>
<td>85830-C-I-O</td>
<td>6 Micron / Fiberglass Custom</td>
<td>-8 AN</td>
</tr>
<tr>
<td>85831-C</td>
<td>6 Micron / Fiberglass -8 AN</td>
<td></td>
</tr>
<tr>
<td>85832-C</td>
<td>6 Micron / Fiberglass -10 AN</td>
<td></td>
</tr>
</tbody>
</table>

**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
FILTERS AND ACCESSORIES

**718XX REPLACEMENT 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.

- **75micron / 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.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Filter Size</th>
<th>Replacement Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>71801</td>
<td>3 Inch Element</td>
<td>10 micron / Paper</td>
</tr>
<tr>
<td>71802</td>
<td>3 Inch Element</td>
<td>40 micron / Stainless</td>
</tr>
<tr>
<td>71803</td>
<td>3 Inch Element</td>
<td>75 micron / Stainless</td>
</tr>
<tr>
<td>71804</td>
<td>3 Inch Element</td>
<td>6 micron / Fiberglass</td>
</tr>
<tr>
<td>71805</td>
<td>5 Inch Element</td>
<td>10 micron / Paper</td>
</tr>
<tr>
<td>71806</td>
<td>5 Inch Element</td>
<td>40 micron / Stainless</td>
</tr>
<tr>
<td>71807</td>
<td>5 Inch Element</td>
<td>75 micron / Stainless</td>
</tr>
<tr>
<td>71808</td>
<td>5 Inch Element</td>
<td>6 micron / Fiberglass</td>
</tr>
</tbody>
</table>

**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 Regulator or Fuel Rails with Gauge Ports
- Not for use in Passenger or Driver’s Compartments

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>71501</td>
<td>EFI Fuel Pressure Gauge</td>
</tr>
<tr>
<td>71502</td>
<td>Carbureted Fuel Pressure Gauge</td>
</tr>
<tr>
<td>71511</td>
<td>EFI Fuel Pressure Gauge Dual BAR/PSI Scale</td>
</tr>
<tr>
<td>71512</td>
<td>Carbureted Fuel Pressure Gauge Dual BAR/PSI Scale</td>
</tr>
</tbody>
</table>

**83801 IN-TANK STRAINING FILTER**

This 75Micron 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.

**451XX BILLET BRACKETS**

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Mounting</th>
<th>Application</th>
<th>No. Brackets</th>
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</thead>
<tbody>
<tr>
<td>45101</td>
<td>Plate</td>
<td>Prodigy Fuel Pump</td>
<td>2</td>
</tr>
<tr>
<td>45102</td>
<td>Plate</td>
<td>Fuelab Filter</td>
<td>1</td>
</tr>
<tr>
<td>45103</td>
<td>Cage</td>
<td>Prodigy Fuel Pump</td>
<td>2</td>
</tr>
<tr>
<td>45104</td>
<td>Cage</td>
<td>Fuelab Filter</td>
<td>1</td>
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<tr>
<td>45105</td>
<td>Plate</td>
<td>Prodigy Fuel Pump / Fuelab Filter</td>
<td>2</td>
</tr>
<tr>
<td>45106</td>
<td>Cage</td>
<td>Prodigy Fuel Pump / Fuelab Filter</td>
<td>2</td>
</tr>
</tbody>
</table>
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.