



Fuel Pressure Regulator

Technical Spec

ECOTRONS LLC

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Note: If you are not sure about any specific details,
please contact us at info@ecotrons.com.

Product: **Fuel pressure regulator**

For Small size fuel pump:

Part # : **EFPR0325**

Part # : **EFPR0325S**

For Mid-size fuel pump:

Part # : **EFPR0345**

Comment: All data given in this document are nominal values
and might be subject of change at all time

Index	Page	Revision	Date	note
1	-----	First Edition	12.10.2013	V1.3
2	-----	Second Edition	12.16.2013	V1.3.1
3	-----	Third Edition	4.11.2014	V1.3.2
4	-----	Fourth Edition	5.13.2015	V1.3.3
5	-----	Fifth Edition	2.18.2017	V1.3.4
6	-----	Sixth Edition	12.14.2017	V1.3.5

Contents

- 1 Characteristic
- 2 Applications and Installation instructions
- 3 Diagnoses and Aftermarket
- 4 Appendixes: Mechanical CAD Drawing

General

The fuel pressure regulator is used in EFI system, and it is one very important part. It works together with fuel pump to provide enough and stable fuel pressure (43Psi).

1 Characteristic:

1.1 Picture of fuel pressure regulator



EFPR0325



EFPR0345



EFPR0325S

Note: EFPR0325 or EFPR0325S is used with 25L/h small fuel pump together.

EFPR0345 is used with 45L/h middle fuel pump together.

Please make sure that the fuel pressure regulator is matched with the fuel pump type, and please don't be confused.

1.2 Basic characteristics

Pressure.....	300kPa
Flow of EFPR0325.....	25L/h
Flow of EFPR0345.....	45L/h
Working life.....	>3000h
Wight (EFPR0325,EFPR0345).....	50g
Wight (EFPR0325S).....	90g
Installation Style.....	External
Working temperature.....	-40°C...80°C

Fuel:

.....	Gasoline
.....	Gasoline with <=20% ethanol

Storage:

Storage Temp Range	-30°C ...60°C
Humidity.....	<=60%
Storage period.....	<=2 years

2 Applications and Installation instructions

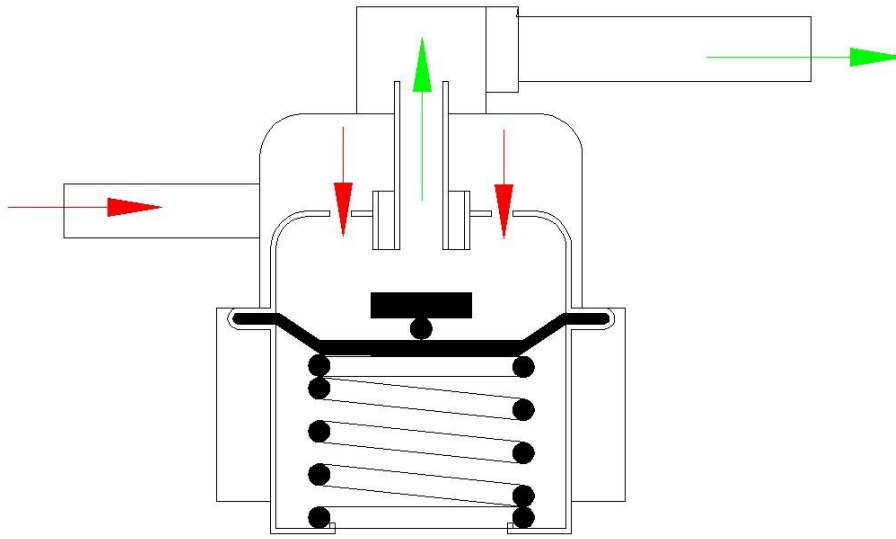
The fuel regulator works with fuel pump to provide the enough and stable pressure fuel in fuel supply, so that fuel is injected to engine successfully. If there is no enough fuel, it will affect the performance of engine.

So, please install the fuel pressure regulator in accordance with SE-EFI installation Manual and pay an attention to maintain.

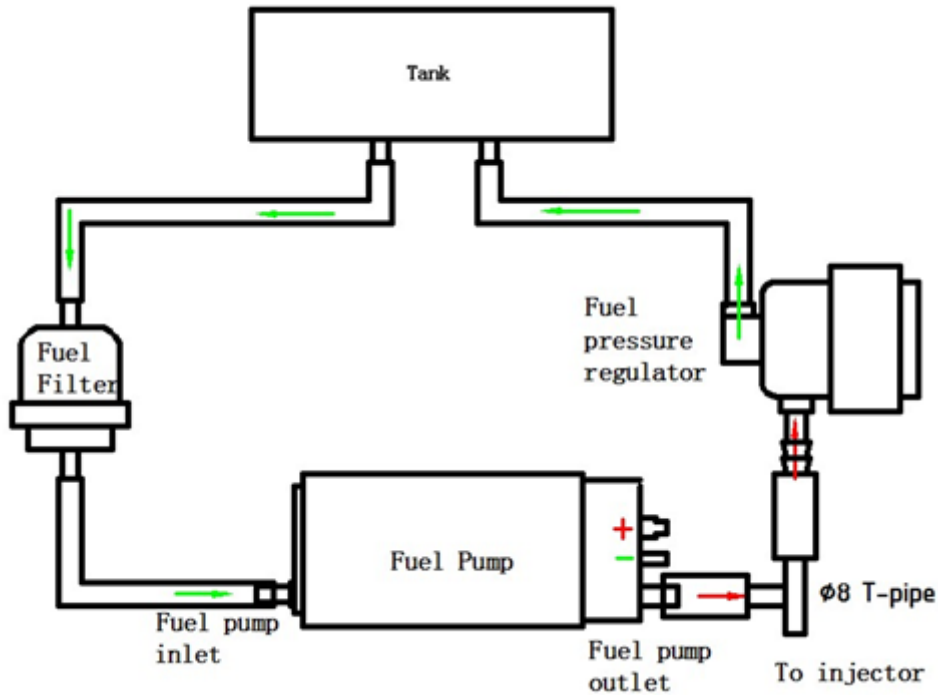
2.1 Functional values and size of plastic case regulator:

The fuel pressure is adjusted by the spring and the high pressure from fuel pump. If the real fuel pressure is higher than 3Bar, the regulating valve will open, the excess fuel will return to fuel tank. If the real fuel pressure is lower than the 3Bar, the regulating valve will be closed, the fuel will be stopped returning to fuel tank.

The function and goal of fuel pressure regulator is to make the fuel pressure stable. The lower or higher fuel pressure than 3Bar will affect the performance of EFI system.



Fuel supply system schematics:



Attention:

1. The fuel is combustible, so when you re-install or check the fuel pressure regulator, please remove all sources of ignition and don't power on it.
2. When you uninstall the fuel pressure regulator, the fuel line has a high pressure, so please be careful. Please take care and prevent a firestorm.

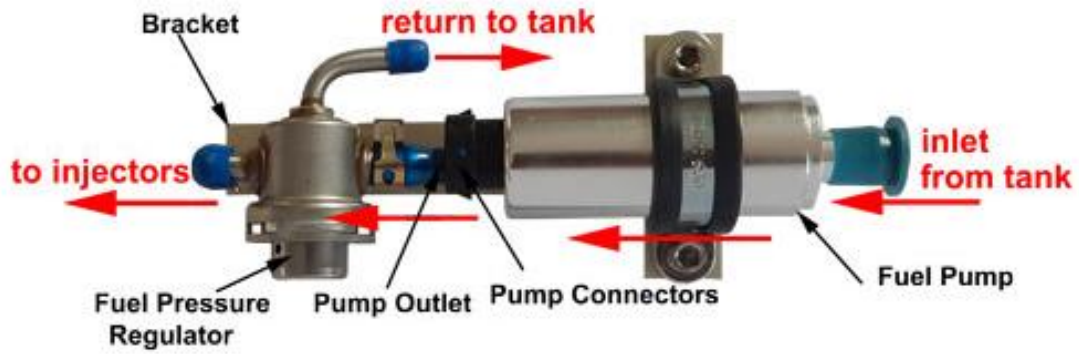
2.2 The fuel pressure regulator with metal case

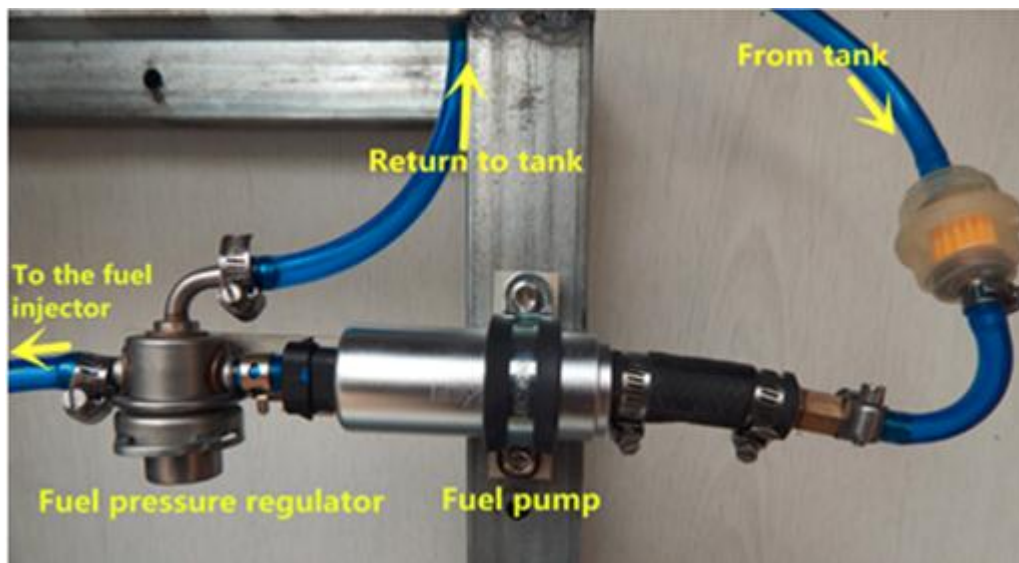
1) Size





2) Installation





3 Diagnoses and Aftermarket

1. Fuel pressure is higher

Reason: 1) The fuel hose is jammed.

2) The fuel pressure regulator is clogged.

Fix: 1) Check the fuel hose, and re-install or change it.

2) Clean the fuel hose, and replace it with a new fuel pressure regulator.

2. Fuel pressure is lower

Reason: 1) The seal ring of regulator is broken.

2) The internal of regulator is broken.

Fix: Please change a good new fuel pressure regulator.

4 Appendixes: Mechanical CAD Drawing of Plastic case (mm)

