

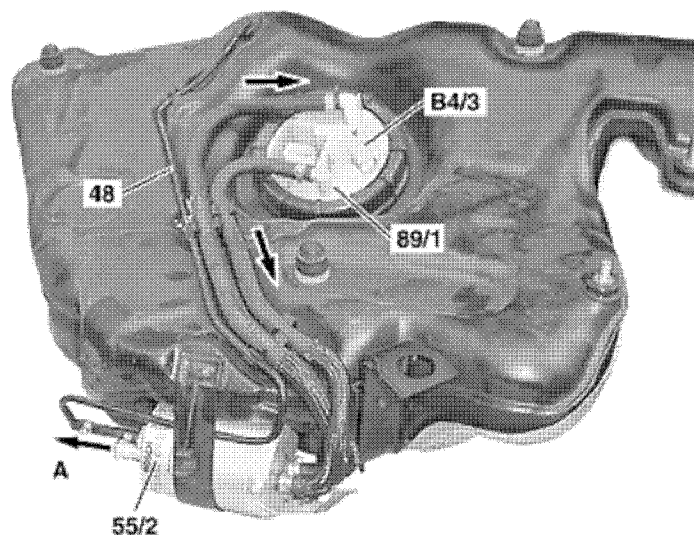
GF47.20-P-2110VC	Fuel filter with fuel pressure regulator, component description	13.1.06
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ENGINE 272.920 /940 /941 in MODEL 203

Shown on model 203

- 48 Fuel pressure regulator vent line
- 55/2 Fuel filter with fuel pressure regulator
- 89/1 Left closing plate

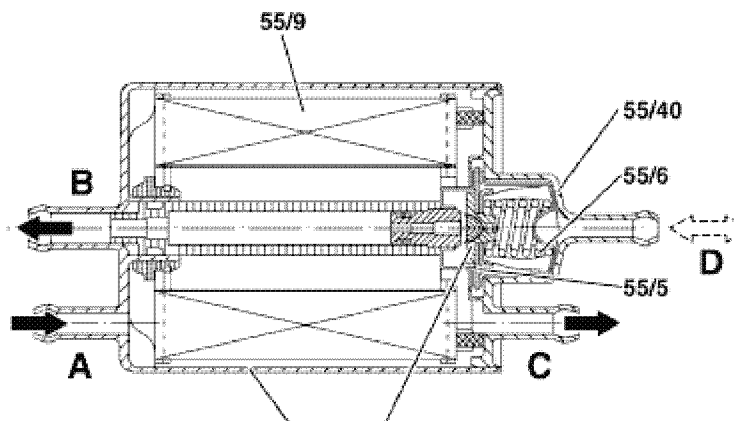
- B4/3 Fuel tank pressure sensor (USA)
- A Fuel pressure line to engine (controlled fuel pressure)



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- 55/2 Fuel filter with fuel pressure regulator
- 55/3 Valve
- 55/5 Diaphragm
- 55/6 Compression spring
- 55/9 Filter element
- 55/40 Diaphragm pressure regulator

- A Feed from fuel pump
- B Fuel return flow to fuel tank
- C Fuel pressure connection to engine
- D Diaphragm pressure regulator vent line



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Location

Model 203, 209: The fuel filter with integrated fuel pressure regulator is located to the rear of the left-hand chamber of the fuel tank.

Design

The fuel filter consists of a sheet metal casing with an integrated filter element (55/9). The fuel flows through this from the outside to the inside. As a result any impurities are trapped.

Fuel pressure as a function of the fuel pump delivery

A Fuel pressure in bar

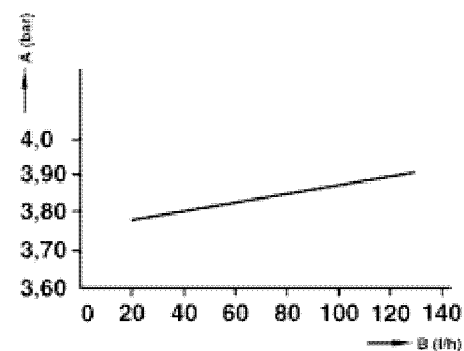
B Fuel pump delivery volume in liters per hour

A greatly varying fuel pump delivery (e.g. 20 or 140 liters per hour) does not have any great effect on the fuel pressure.

Model 230: The fuel filter with integrated fuel pressure regulator is located under the fuel tank at the frame floor assembly.

Function

The fuel pressure regulator controls the fuel pressure of around 3.8 bar (system pressure) via the fuel return volume. If the set fuel pressure is exceeded, the diaphragm is pushed against the push spring and the valve attached to the diaphragm opens the passage for the fuel return. If the set fuel pressure is below the limit, the valve is closed again by means of the push spring.



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