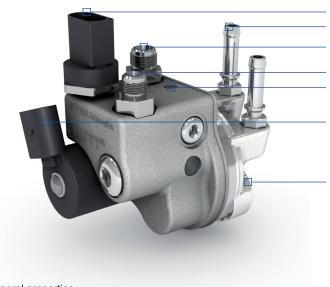


PRODUCT SPECIFICATION ELECTRONIC PRESSURE REGULATOR EPR209

is a pressure regulator controlled by the electronic control unit for naturalgas vehicles approved by the technical regulations of ECE R110. The pressure regulator reduces the pressure in the tank down to 2 - 12 bar if necessary.

In comparison to the VENTREX pressure regulator EPR210 the pressure regulator EPR209 achieves higher mass flow rates.

The EPR is a two stage regulator. The first stage consists of a springloaded piston and the second stage consists of a proportional valve, which also acts as a shut off valve. Beside these two devices the pressure regulator is provided with a pressure relief device to protect the injection valve, a heat exchanger to conduct the low temperature which develops through expansion of the gas and a pressure sensor to meassure the inlet pressure.



high pressure sensor, 3-pins water connection - cooling system (90 °C), Ø 8 mm outlet - low pressure, max. 12 bar, 8 mm pipe

inlet - high pressure, max. 260 bar, 6 mm pipe pressure relief valve, 16 bar ± 10%

proportinal valve PWM 0,5-2 kHz, 12 VDC, e-connector, 2-pin

2 fixing connection M8x10 on the back

General properties

weight [kg]	
dimensions [mm]	
pressure relief valve [bar	
filtering	
control	

Operational parameter

inlet pressure [bar]
outlet pressure [bar]
operating temperature [°C]
flow rate CNG [kg/h]
leakage rate [mbar*l/s]

0,9 111x82x72 16 ± 10% particle >50 µm

20 to max. 260
2 to 12
-40 to 125
30 at ∆p = 8 bar
internal: <1x10 ⁻⁴
external: <1x10 ⁻⁵

test medium: 90% air and 10% helium

PWM-signal, 0,5 to 2 kHz, max. 2 A

Connections

met		
outlet		
pressure sensor		
proportional valve		
heat exchanger		
fixing connection		

Materials
alve body, other parts
neat exchanger
seals
colenoid valve, other parts

tube fitting Ø 6 mm, 7/16"-20 UNF
tube fitting Ø 8 mm, 1/2"-20 UNF
3-pin connector
2-pin connector
2 x hose connector/fitting Ø 8 mm, optional
2 x M8x10 inside

EN AW-6082-T6		
EN AC AlSi12(Fe)		
FKM, HNBR, duroplast		
stainless steel		

VENTREX Automotive GmbH