Materials used for construction and technical specification

The **AC R01** reducer is made of aluminum alloy processed under strict chemical control and the manufacturing technology ensures:

- ✓ tight casting up to 70 bar,
- ✓ uniform formulation of casting to ensure high durability and resistance to mechanical damage

Technical specification of AC R01.

The version of **AC R01**	**150KM**	**250KM**
Operating pressure (adjustable) [bar]	0,9 ÷ 1,3	1,0 ÷ 1,3
Working temperature [°C]	-20 to +120	-20 до +120
Gas inlet connection [mm]	M 10x1	M 12x1
Gas outlet connection [mm]	Ø 12	Ø 16
Water inlet/outlet [mm]	Ø 16	Ø 16
Negative pressure connection [mm]	Ø 4	Ø 4
Dimensions [mm]	100x80	100 x 85
Weight [kg]	1,1	1,3

Standards and certificates.

The **AC R01** reducer is E4-67R-01 certified.

AC S.A. reserves the right to introduce changes to the presented information. All information is current as of the date of print. As provided by the program of continuous improvement at AC S.A., the information is subject to modification without notice.

AC Spółka Akcyjna
15-182 Białystok, ul. 27 lipca 64, Polska
tel. +48 85 743 81 00, fax +48 85 653 93 83
www.ac.com.pl I info@ac.com.pl

NEW

STABLE

Quality and design to guarantee excellent performance.

Reducer AC R01

The unit guarantees stable pressure and precise fuel dosage in all vehicles.

STAG autogas systems

Reducer AC R01 150KM / 250KM

The reducer is designed for Autogas vapor phase sequential injection systems. The reducer vaporizes the liquid petroleum gas supplied to the cylinders. The **AC R01** reducer ensures continuous stable pressure while supplying the precise fuel dosage to the gas injectors.

AC R01 reducer comes in two versions, 150HP and 250HP including TURBO charged engines.

The high efficiency and thermal stability of the AC R01 reducer ensure:

- ✓ stable pressure and precise fuel dosage under sudden acceleration and engine load increase,
- ✓ correct gas temperature regardless of driving conditions,
- ✓ correct vaporization of gas, even in uncommonly low ambient temperatures.

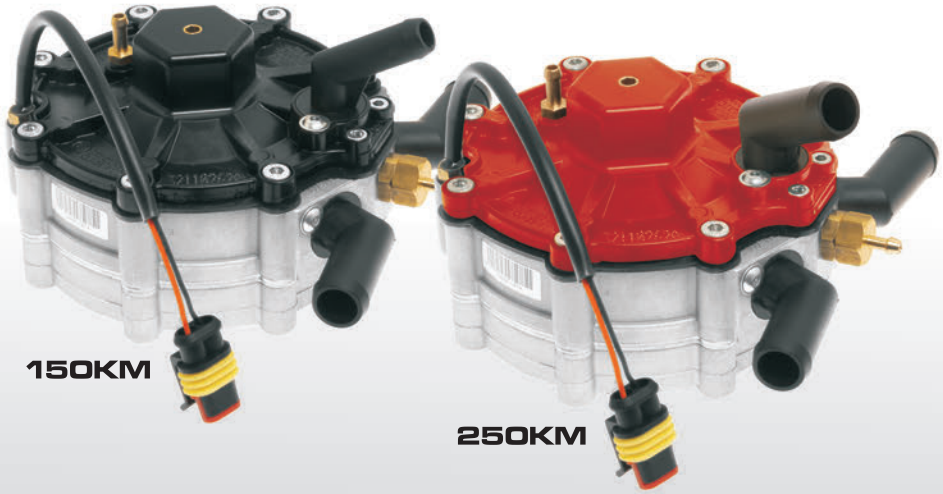
LPG systems equipped with the **AC R01** reducer work perfectly with the vehicle power transmission system, ensuring trouble-free operation for years.

The reducer works perfectly regardless of LPG quality, driving style or vehicle load.

The modified version of the **AC R01** includes enhanced internal components for the adjustment of exit pressure, which has improved the operational stability of the unit.

The stable working pressure of the AC R01 ensures:

- ✓ very smooth and dynamic driving with optimized fuel consumption,
- ✓ steady engine operation,
- ✓ safe and comfortable driving.



Benefits and design

The reducer quickly responds to sudden load changes. It provides the correct fuel dosing even at temporary full engine load and prevents an excessive pressure rise and engine stuttering.

Benefits of AC R01 reducers:

- ✓ stable pressure,
- ✓ excellent performance with turbocharged engines,
- ✓ tested in all conditions,
- ✓ gas inlet elbow connection Ø12,
- ✓ modern construction solutions,
- ✓ easy installation in tight engine sections,
- ✓ rotating connections,
- ✓ stable working parameters.

Design of AC R01 reducers.

With the use of unique design solutions, the single-stage, diaphragm-type **AC R01** with a heat exchange (water/gas), combines the benefits of two types of reducers:

- ✓ single-stage - fast and efficient management of sudden temporary increase in engine load,
- ✓ two-stage - no risk of excessive pressure.

The unique design of the **AC R01** ensures sufficient performance in both low and high pressure gas inflow. Therefore, the unit is resistant to sudden pressure drops resulting from reduced LPG level in the cylinder and fuel impurities.

The use of an innovative heat exchange system in the **AC R01** reducer, significantly minimizes the release of LPG impurities which makes the **AC R01** durable and reliable for years to come.