



ROTAREX

AUTOMOTIVE

Coolantless CNG Pressure regulator

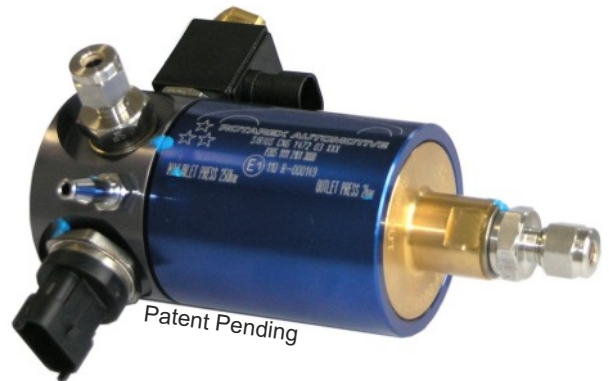
SIRIUS™ EVO

Innovative pressure regulator for automotive CNG applications.

Approvals:

(E1) 110R-000149

ISO 15 500



Key features:

- Stainless steel bellow, no rubber diaphragm -> no heating circuit required
- High gas flow for up to 300 kW engine performance
- Maintenance free
- Compact design
- Can be placed in any orientation at any given place in the vehicle
- All components made from corrosion resistant materials
- Long cycle lifetime, >20'000 engine starts at 260 bar (3'770 psi) pressure drop

Specifications:

General (SIRIUS)

Type of gas	CNG
Inlet pressure	200 bar (2'900 psi)
Maximum inlet pressure	260 bar (3'770 psi)
Outlet pressure ranges	2 to 3 bar (29 to 44 psi) 3 to 4 bar (44 to 58 psi) 6,5 to 8,5 bar (94 to 123 psi)
Working temperature	-30°C to + 105 °C (-22°F to + 221°F)
Gas flow rate	24 to 64 kg/h, depending on outlet pressure range

High Pressure Extension unit (SIRIUS EVO):

High Pressure Solenoid valve

Coil voltage	12 V DC (optional 24 V DC)
Coil power consumption	6.5 W
Connector	AMP Superseal

High Pressure Filter

Mesh size	55 µm (2.2 mils)
Material	Sintered Stainless Steel

High Pressure Sensor

Brand	BOSCH (standard others on demand)
Output signal	0-5V



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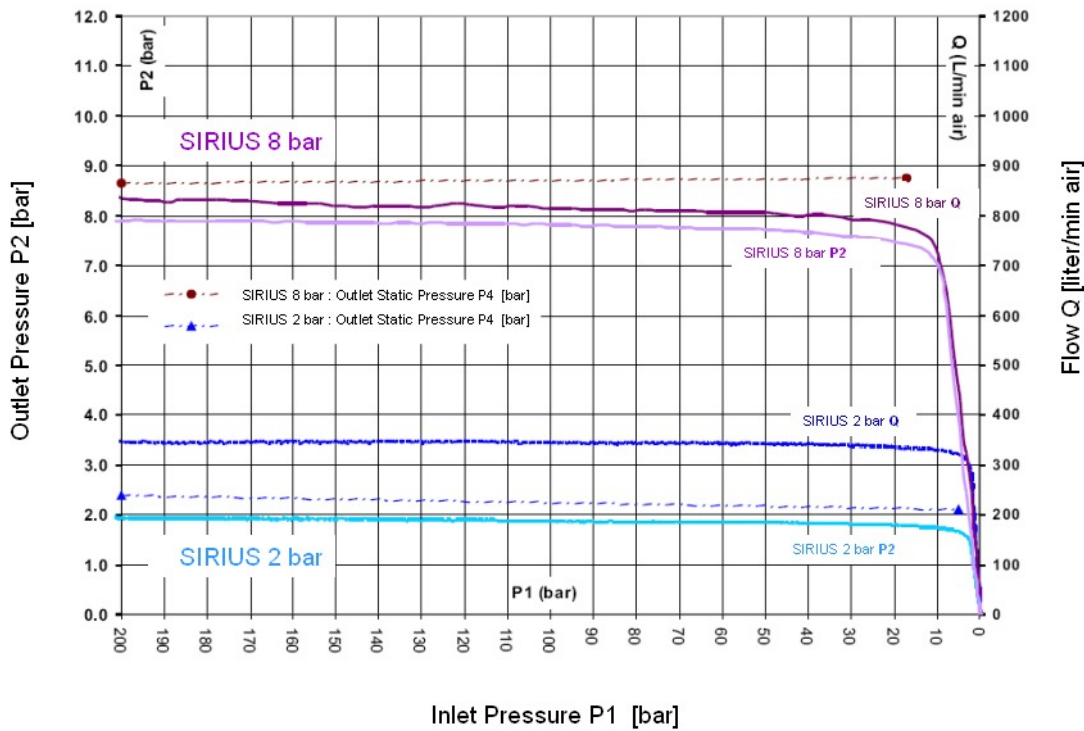
Coolantless CNG Pressure regulator SIRIUS EVO™

Pressure Relief Valve (option)

Type Spring loaded
Opening pressure 8 or 16 bar (116 or 232 psi)

Materials

Regulator body Brass / Aluminum
High Pressure Extension unit Aluminum
Solenoid cartridge Stainless Steel
All components made from corrosion resistant materials



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