ITT

Conoflow

Conoflow® Series LDNGV

Light Duty Natural Gas Vehicle Regulator

The NEW Light Duty NGV Regulator (LDNGV Regulator) incorporates the same robust design and manufacturing practices as the HPNGV series NGV Regulator, and offers improvements in function and value for smaller engine applications. This regulator provides the market with a Durable, Stable, Predictable and Repeatable regulator for smaller fuel injected NGV engine (to 5.0 liter displacement) applications.

Key design features include an integral (and serviceable) 10 micron filter, an optional solenoid valve matched to the regulator's performance, compact size, all fluid connections on a single side, an optional bonnet to intake manifold connection, outstanding performance and durability, all in a handsome and easy to install package. This regulator is certified to major worldwide standards; ISO 15500, ANSI/AGA NGV 3.1 and ECE R110.

Standard Specifications

Regulated Media:
Compressed Natural Gas

Inlet Pressure:
300 to 3600 psig (2.07 to 24.84 Mpa) to maintain all published specifications

Outlet Pressure:
Factory calibrated per order / Range from 50 to 150 PSIG (0.345 to 1.03 Mpa)

Proof Pressure:
Minimum 150% of operating pressure

Burst Pressure:
Minimum 400% of operating pressure

Pressure Accuracy:
Outlet pressure to be within 15 psi (0.103 Mpa) of factory calibrated outlet pressure throughout range of flow, inlet pressure and temperature

Flow Capacity:
110 lb/hr (50 kg/hr)

Filtration:
10 micron, field serviceable element

Temperature:
-40 to 257 °F (-40 to 125 °C)

Application:
Fuel injected engines to 5.0 liter displacement (normally aspirated and turbocharged)

Connections:
Inlet (high pressure) gas: SAE-4, per SAE J1926

Outlet (low pressure) gas: SAE-6, per SAE J1926

PRRV Gas Discharge Port: 3/8-18 NPT Female

Engine Coolant Ports: 1/4-18 NPT Female

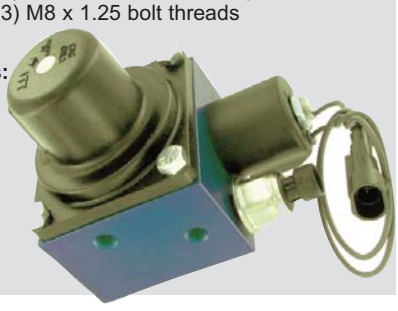
Optional Bonnet: 3/16" (4.8 mm) Hose Barb

Optional Solenoid: Amp Superseal 1.5 (2 wire)

Optional Sensor: Packard Metripack 150 (3 wire)

Mounting:
Sides: (2) M10 x 1.5 bolt threads per side
Bottom: (3) M8 x 1.25 bolt threads

Approvals:
ECE R110
ANSI/AGA NGV 3.1
ISO 15500

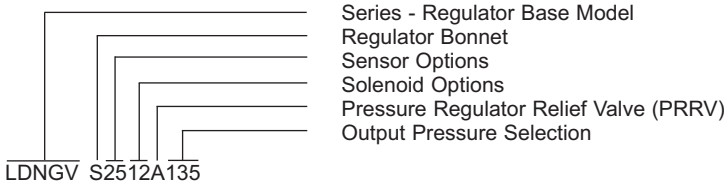


Ordering Sequence — Select desired option for each category

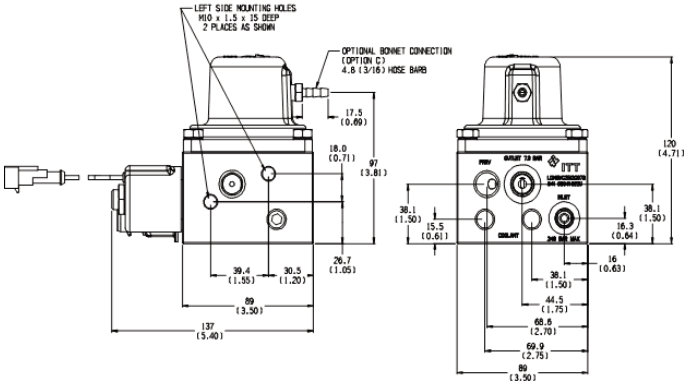
REGULATOR MODEL BREAKDOWN (CED CODE)

Text Position 1 through 5	Option Code LDNGV	Definition of Character
		Natural Gas Vehicle Fuel Pressure Regulator
		REGULATOR BONNET
6	S	Standard Bonnet (Atmospheric pressure reference)
	C	Captured Bonnet (3/16" Straight Hose Barb)
		SENSOR OPTIONS
7 - 8	XX	No Sensor (SAE-3 Port will be plugged)
	25	Sensor Mounted - 25 WATT
	50	Sensor Mounted - 50 WATT
	NOTE:	Connection is a 3 wire Packard Metripack 150 plus
		SOLENOID OPTIONS
9 - 10	XX	No Solenoid Valve (Port will be plugged)
	12	Normally Closed Lock Off Solenoid - 12 Volts DC
	24	Normally Closed Lock Off Solenoid - 24 Volt DC
	NOTE:	Connection is a 2 wire AMP Superseal 1.5 Plug
		PRESSURE REGULATOR RELIEF VALVE (PRRV)
11	A	100 psi (0.69 Mpa) Opening Pressure
	B	150 PSI (1.03 Mpa) Opening Pressure
	C	200 PSI (1.38 Mpa) Opening Pressure
	D	250 PSI (1.73 Mpa) Opening Pressure
	NOTES:	1. Opening pressure should be at least 50 psi (0.345 MPA) greater than the specified output pressure.
		2. The PRRV discharges into a 3/8-18 NPT port. The user may route any gas discharge from the PRRV safely out of the area.
		OUTPUT PRESSURE SELECTION
12 - 14	XXX	Regulators can be factory set from 50 to 150 PSIG (0.346 to 1.03 Mpa). For outlet pressure settings less than 100 PSIG, use 0XX format.

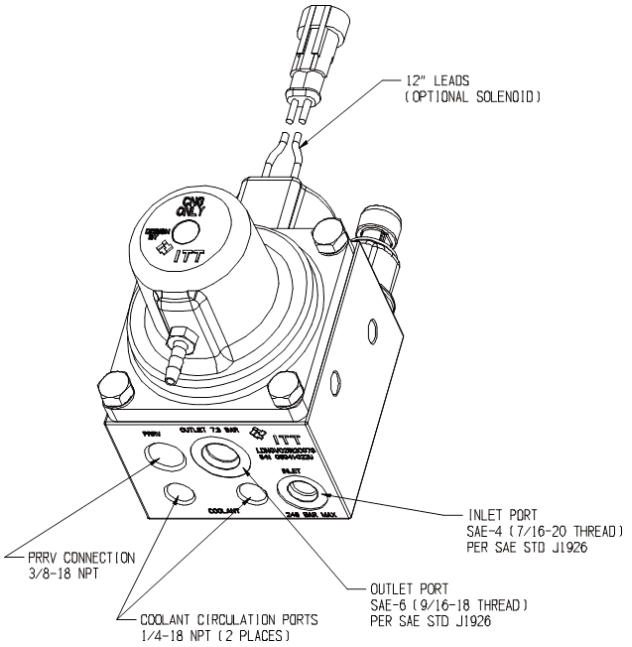
Example



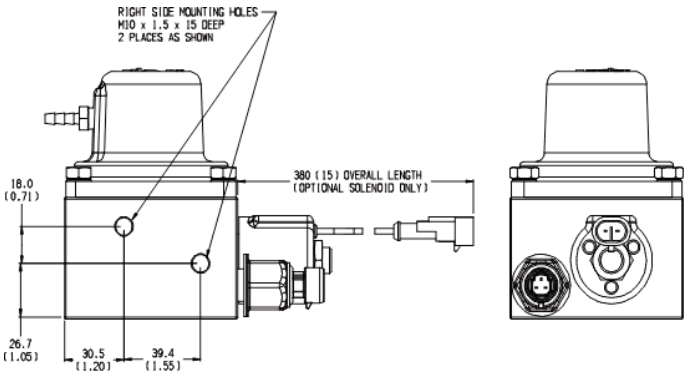
Dimensional Views



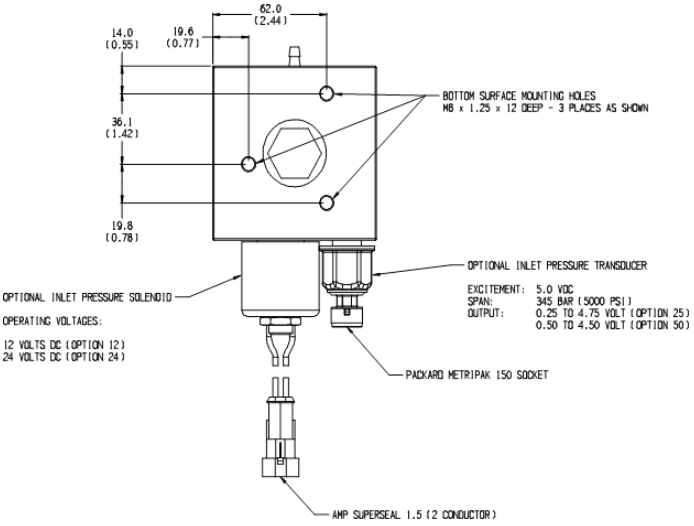
LEFT SIDE VIEW/PORT DIMENSIONS



PORT IDENTIFICATION



RIGHT SIDE VIEW



BOTTOM VIEW

Dimensions in Millimeter
(Dimensions in Inches)

ITT
Engineered for life

5154 Highway 78, St. George, SC 29477-0768 Ph. 843-563-9281 Fax. 843-563-2131