

Conoflow® Series HPNGV2 Heavy Duty Natural Gas Vehicle Regulator

The ITT Conoflow HPNGV Series Fuel Regulator has earned a reputation for world class reliability and performance. Over a decade of service in the most demanding applications has proven the HPNGV Regulator is the choice for OEM vehicle, engine and fuel systems. Certified to ECE R110, the HPNGV Regulator is proven to be a safe and reliable pressure control element.

Standard Specifications

Regulated Media:

Compressed natural gas

Maximum Inlet Pressure:

3600 PSIG (24.8 MPa)

Minimum Inlet Pressure:

250 PSIG (1.72 MPa)

Nominal Output Pressure Range: Factory preset 45-150 PSIG (0.31-1.03 MPa) Set Point. Assuming regulator set point of 110 PSIG (0.76 MPa), output pressure window of 99 to 125 PSIG (0.68 to 0.86 MPa) can be expected.

Gas Flow Rate:

0-110 lb/hr (0-55 kg/hr) nominal

Internal Filtration:

40 Micron Corrosion Proof Sintered Element

Leakage (Ambient and Valve):

Bubble Tight

Moisture Tolerance:

To 7 lbs Water per Million Standard Cubic Ft.

Temperature Range (Ambient, Inlet and Coolant):

-40°F to +257°F (-40°C to 125°C)

Vehicle Applications:

Normally aspirated or Turbocharged EFI Spark Ignition Engines

Porting:

Gas Inlet:

SAE-6 (9/16-18 Thread) per SAE Specification J1926

Gas Outlet:

SAE-8 (3/4-16 Thread) per SAE Specification J1926

Standard Coolant:

3/8" Hose Connection per SAE Specification J962

Mounting Threads:

M8 x 1.25 x 18mm, 2 Places 45.7mm Apart Suitable for 20mm Bolts

Weight:

3.89 Lbs (1.77kg)

Approvals:

ECE R110
U.S. Patents
5,890,512
and 5,443,083



Ordering Sequence — Select desired option for each category

REGULATOR MODEL BREAKDOWN (CEO CODE)

TEXT POSITION 1 through 6	OPTION CODE HPNGV2	DEFINITION OF CHARACTER
		Natural Gas Vehicle Fuel Pressure Regulator

7	S	REGULATOR BONNET Standard Bonnet (No Map Bias Fitting)
	C	Captured Bonnet (3/16" Straight Hose Barb Bias Fitting)
	E	Captured Bonnet (1/4" Hose Elbow (Polyflo Tubing Type) Bias Fitting)

8	X	SENSOR PORT (for Inlet Pressure Transducer) No Sensor Port
	3	SAE-3 Sensor Port

Note: Regulators with Sensor Port will be shipped with this port open.

9	T	REGULATOR COOLANT BOWL OPTIONS Thermostat
	H	No Thermostat

Note: Coolant connections are for 3/8" (9.5 mm) ID hose.

10	A	INTEGRAL PRESSURE RELIEF DEVICE (PRD) 200 PSI (± 40 PSI) PRD
	B	270 PSI (± 60 PSI) PRD - Standard
	C	350 PSI (± 60 PSI) PRD

Note: A 200 psi PRD is not recommended for regulator output pressures above 120 psig.

Note: The regulator PRD is not suitable as a stand alone safety relief valve. Other downstream protection strategies must be employed for a robust system design.

11	X	PRD CONNECTION OPTIONS PRD Vents to Atmosphere - Standard
	P	1/4" NPT Male Capture Pipe PRD
	T	1/2" Tube Stub PRD

Note: If regulator is located in a hazardous location, a PRD capture pipe must be used to route discharge gas to a remote location.

12 through 14	XXX	OUTPUT PRESSURE SELECTION Output pressure setting (psig). For values less than 100, use 0XX format.
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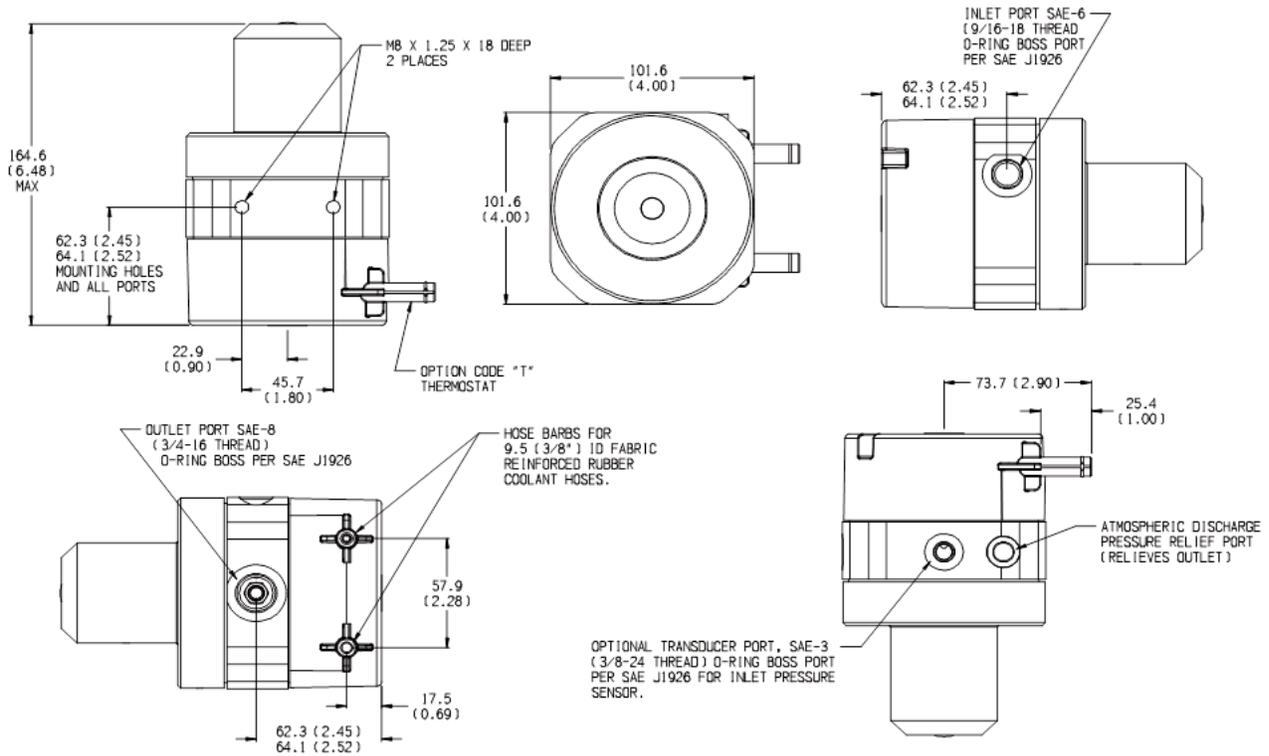
Note: Regulator can be factory set from 45 to 150 psig.

Example

HPNGV2 S X T A P 100

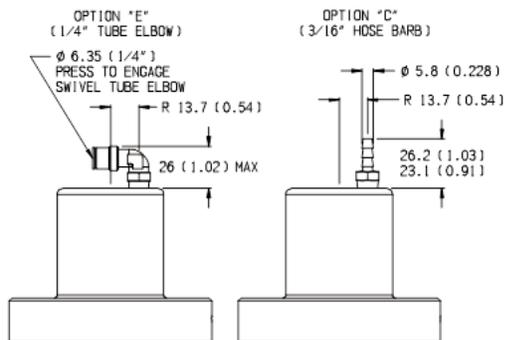
- Series
- Regulator Bonnet
- Sensor Port
- Regulator Coolant Bowl
- Integral Pressure Relief Device
- PRD Connection
- Output Pressure

Dimensional Views

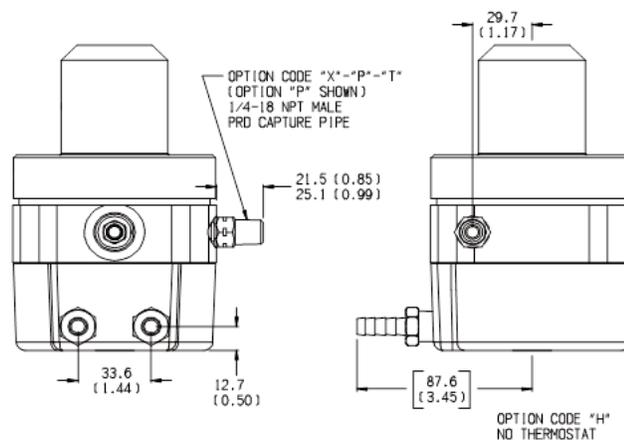


Manifold Bias, PRD, and Coolant Bowl Dimensional Views

MANIFOLD BIAS



PRD



COOLANT

Dimensions in Millimeter
(Dimensions in Inches)