# Conoflow Series HPNGV5



# Natural Gas Vehicle Fuel Pressure Regulator

The HPNGV5 Series CNG Regulator is a new generation of the ITT Conoflow HPNGV series regulator. New materials, such as the proprietary Fluorosilicone rubber diaphragm, improve the resistance to heat and synthetic oils for improved life expectancy. Continuing the tradition of offering many configuration possibilities, additional options are now available, including heavy duty machined aluminum coolant bowls, a higher capacity solenoid shutoff valve, and larger coolant bowl fittings. This regulator meets the ISO 15500 and ANSI CSA NGV 3.1 standards, and is type approved to ECE R110.

# **Standard Specifications**

### Regulated Media:

Compressed natural gas

#### **Inlet Pressure:**

250 to 3600 psig (1.72 MPa to 24.84 MPa) to meet all performance specifications.

Nominal Output Pressure Range: Factory preset 50-150 PSIG (3.4-10.3 bar) Set Point. The typical range of delivery pressure is +15 / -10 psi from specified setting throughout the range of inlet pressure, temperature and flow.

#### Gas Flow Rate:

Up to 165 lb/hr (0-75 kg/hr) (flow varies by application, consult the factory for data)

#### 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 +248°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" and 1/2 NPT

3/8" to 3/4" hose barbs

### **Mounting Threads:**

M8 x 1.25 x 18mm, 2 Places 45.7mm Apart Suitable for 15mm Bolts

## Weight:

5 to 6.5 lb, Option Dependent

## Approvals:

ECE R110 ISO 15500

ANSI/AGA CSA NGV 3.1

**U.S. Patents:** 5,890,512

and 5,443,083



	0 and ANSI CSA NGV 3.1 standards, and is type approved to ECE R110.	
Ordering Sequence — Select desired option	for each category	
REGULATOR MODEL BREAKDOWN (CED CODE) TEXT POSITION OPTION CODE DEFINITION OF CHARACTER 1 through 6 HPNGV5 Natural Gas Vehicle Fuel Pr	ressure Regulator	
7 S Standard Bonnet (No Map Bi C Captured Bonnet (3/16" Strai E Captured Bonnet (1/4" Hose	ias Fitting)	
NA NA Inlet Solenoid Valve  12 Std. Capacity 12v Solenoid  24 Std. Capacity 24v Solenoid  1X High Capacity 12v Solenoid  2X High Capacity 24v Solenoid	Valve Valve I Valve	
N = No Pressure Gauge Pol		
PRESSURE SENSOR (FACTORY INSTALLED AND TE  N N N N N N OF Pressure Sensor P P 0.25 to 4.75 Volt Output W W = 0.50 to 4.50 Volt Output NOTES: Note: Sensor output with 5.	it (over 5000 psi range)	
OPENINIG PRESSURE  12 A A = 200 +/- 40 psi  B B = 270 +/- 60 psi  C C = 350 +/- 60 psi	is not recommended for regulator set ot suitable as a stand-alone safety earn protection must be employed	
PRRV (RELIEF VALVE) DIS  P = 1/4" NPT Male Pipe Cor  T T = 1/2" Tube Stub Connect  X X = Discharge to Atmospher  Notes: Note: If regulator is located capture pipe must be used t location.	nnection tion (for std tube fittings)	
14 H H = Cast Aluminum bowl wit  L (open towards gas outlet po  L = Machined Aluminum bow	BOWL (MAY BE ROTATED BY USER) th 3/8" side ports ort) wl with 1/2" NPT Bottom Ports owl with 3/8" NPT Bottom Ports	
COOLANT CONNECTIONS  N = None 3	ections ections ections	

**OUTPUT PRESSURE SELECTION** 

Output pressure setting (psig). For values less than 100, use 0XX

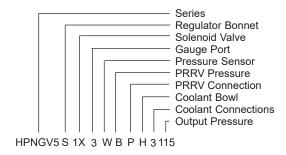
See next page for ordering example.

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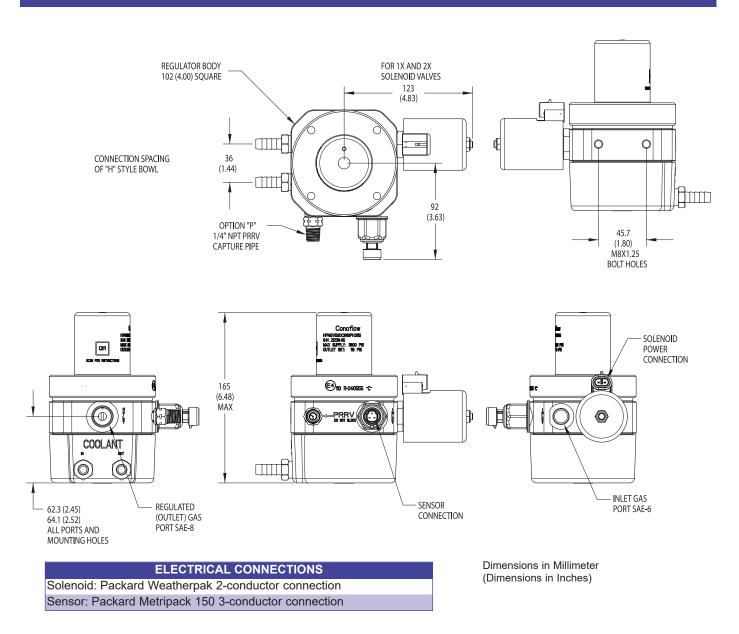
16-18

# Series HPNGV5

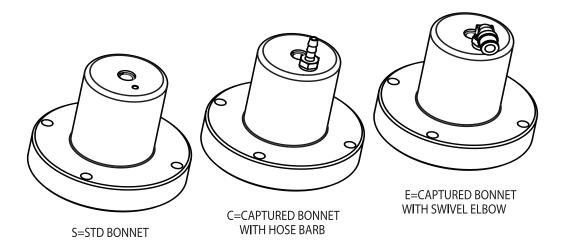
# **Ordering Example**



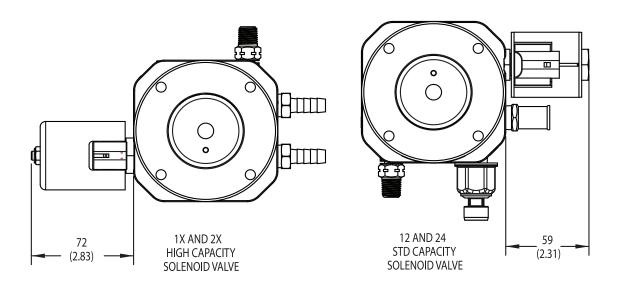
# **Dimensional Views**



# **Bonnet Options**

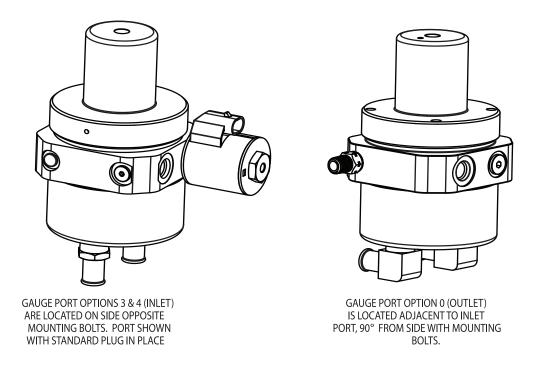


# **Inlet Solenoid Options**



# Series HPNGV5

# **Gauge Port Options**



# **Coolant Bowl Options**

