

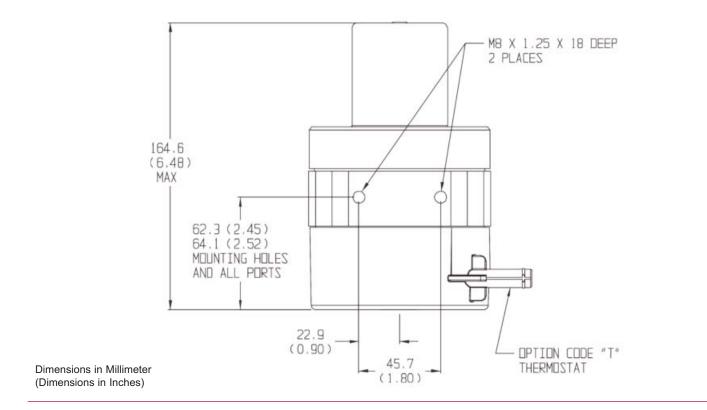
Heavy Duty Natural Gas Vehicle Regulator The ITT Conoflow HPNGV Series Fuel Regulator has earned a reputation for world class reliability and performance. Over a decade of

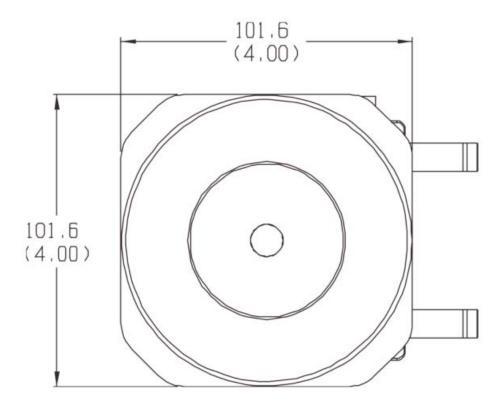
The ITT Conoflow HPNGV Series Fuel Regulator has earned a reputation for world class reliability and performance. Over a decade of service in the most demanding applications has proven the HPNGV Regulator is the choice for OEM vehicle, engine and fuel systems. Certified to ECE R110, the HPNGV Regulator is proven to be a safe and reliable pressure control element. Certifications and Approvals pending are for ISO15500, ANSI/AGA NGV3.1 and ARAI Type Approval AIS-037.

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Standard Specifications	Ordering Sequence — Select desired option for each category		
Regulated Media: Compressed natural gas Inlet Pressure:	REGULATOR MODEL BREAKDOWN (CEO CODE) Text Position OPTION CODE DEFINITION OF CHARACTER 1 through 6 HPNGV2 Natural Gas Vehicle Fuel Pressure Regulator		
 Inite Pressure: 250 to 3600 psig (1.72 MPa to 24.84 MPa) to meet all performance specifications. Nominal Output Pressure Range: Factory preset 45-150 PSIG (0.31-1.03 MPa) 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 lbs/hr (0-82 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 +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-6 (9/16-18 Thread) per SAE Specification J1926 Standard Coolant: 3/8" Hose Connection per SAE Specification J1926 Mounting Threads: Merei The able on page 4 Approvals: ECE R110 Pending: ISO15500 ANSI/AGA NGV3.1 ARAI Type Approval AIS-037 US, Patents: S,890,512 and 5,443,083 	7SREGULATOR BONNET OPTIONS Standard Bonnet (No Map Bias Fitting)7SStandard Bonnet (No Map Bias Fitting)7CCaptured Bonnet (3/16" Straight Hose Barb Bias Fitting)8Captured Bonnet (1/4" Hose Elbow (Polyflo Tubing Type) Bias Fitting)		
	8 X No Sensor Port (standard) 3 SAE-3 Sensor Port (Note 1) 4 SAE-4 Sensor Port (Note 1) W Sensor (Installed) - 0.25 to 4.75 Volt Output (Notes 2,3) Y Sensor (Installed) - 0.50 to 4.50 Volt Output (Notes 2,3) NOTES: 1. Regulators with sensor port will be shipped with this port open. 2. See drawing for electrical connection 3. Sensor output with 5.0 volt DC Excitement for 5000 psig span		
	REGULATOR COOLANT BOWL OPTIONS 9 T Thermostat H No Thermostat NOTES: Coolant connections are for 3/8" (9.5 mm) ID hose.		
	10 A 200 PSI (± 40 PSI) PRD B 270 PSI (± 60 PSI) PRD - Standard C 350 PSI (± 60 PSI) PRD NOTES: 1. A 200 psi PRD is not recommended for regulator output pressures above 120 psig. 2. 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.		
	PRD CONNECTION OPTIONS 11 X PRD Vents to Atmosphere - Standard P 1/4" NPT Male Capture Pipe PRD T 1/2" Tube Stub PRD NOTES: If regulator is located in a hazardous location, a PRD captur pipe must be used to route discharge gas to a remote location.		
	12 - 14XXXOUTPUT PRESSURE SELECTION12 - 14XXXOutput pressure setting (psig). For values less than 100, use 0XX format.NOTES:Regulator can be factory set from 45 to 150 psig.		
	Example Series Regulator Bonnet Sensor Port Regulator Coolant Bowl Intergal Pressure Relief Device PRD Connection Output Pressure		

Series HPNGV2

Dimensional Views

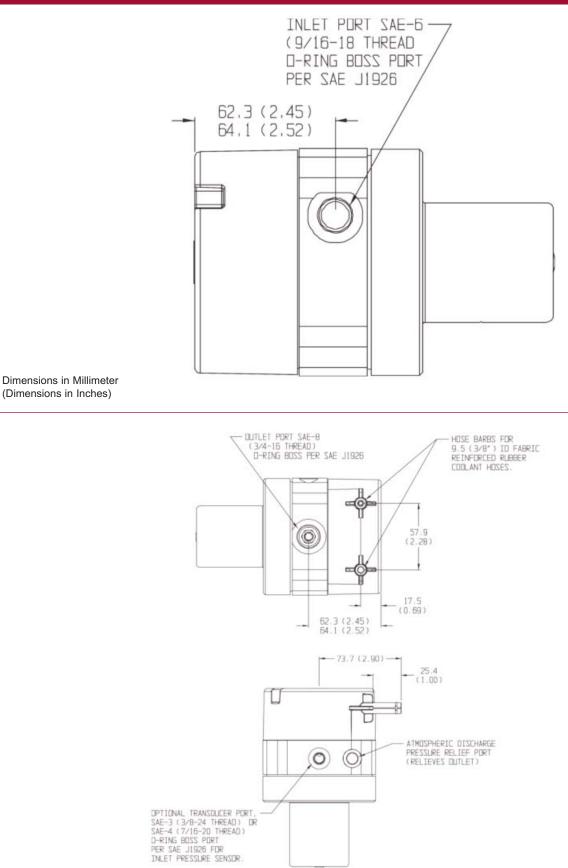




Dimensions in Millimeter (Dimensions in Inches)

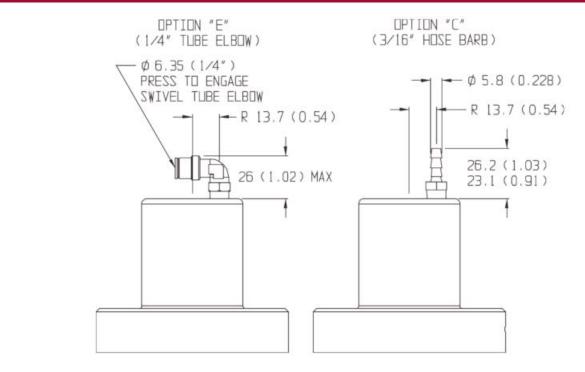
Series HPNGV2

Dimensional Views



Series HPNGV2

Dimensional Views - Manifold Bias



Dimensions in Millimeter (Dimensions in Inches)

Dimensional Views - PRD and Coolant Bowls

HPNGV2 Regulate	or Weight	
HPNGV2 Regulator	4.03 lb. (1.88 kg)	
HPNGV2 Regulator with sensor	4.25 lb. (1.93 kg)	
	OPTION CODE "X"-"P"-" (OPTION "P" SHOWN) 1/4-18 NPT MALE PRD CAPTURE PIPE	29.7 (1.17)
	21.5 (0.85) 25.1 (0.99)	
33.6 (1.44		- [87.6 (3.45)]
Dimensions in Millimeter		OPTION CODE "H"

Dimensions in Millimete (Dimensions in Inches)

105 Commerce Way, Westminster, SC 29693, Ph. 864-647-9521 Fax. 864-647-7620

NO THERMOSTAT