

N-CA225 Series Carburetors

for LP and Natural Gas Fueled Engines

The CA-225 is a mixer capable of operating on both natural gas and LPG. The variable venturi mixer utilizes a specified fuel inlet pressure from a pressure regulator along with clean filtered air and the vacuum generated in the engine inlet manifold to provide a specified air/fuel mixture to the engine. The resultant air/fuel ratio is a function of these operating pressures as well as the fuel quality and type. This variable venturi mixing configuration allows for operation across a broad range of engine sizes and operating conditions with optimal air fuel ratio control and minimal pressure drop.



Both adjustable and tamper-resistant versions of the mixer are available. The adjustable version can be tuned for variations in fuel quality utilizing the idle adjust screw and the power adjustment valve. The tamper-resistant version incorporates an idle adjustment screw which can be capped off once set and does not incorporate a power adjustment valve.

N-CA225 Carburetor Specifications

Part Number	Engine Size *	Description
8062-1070	3.0 L, 4.3 L, 5.7 L Natural Gas	Adjustable
8062-1080, 8062-1097	3.0 L, 4.3 L, 5.7 L Natural Gas	Tamper-Resistant
8062-1096	5.7 L LP	Tamper-Resistant

*Engine sizes noted are for hardware available at the time of publication. Please contact Woodward Applications for hardware availability and sizing information.

Environmental Specifications

Specification Item	Acceptable Range or Qualification Condition
Operating Temperature Limits	-29 to +105 °C
Storage Temperature	Short term -40 to +125 °C
Vibration Qualification Test	Woodward RV2: 0.1 G2/Hz, 10-2000 Hz, 12.8 Grms, 3 hrs/axis, per MIL-STD-202F, Method 214A, Test Condition D
Mechanical Shock	Woodward MS1: 40 G, 11 ms sawtooth pulse, 3 shocks per axis per MIL-STD-810F, Method 516.2
Thermal Shock Qualification	50 cycles from -29 to +105 °C
Ingress Protection	Pressure wash per SAE J1455 4.5.3
Salt Fog	Test for 96 hours per MIL-STD-810F, Method 509.2
Chemical Resistance	The mixer uses materials proven capable of withstanding normal engine environment chemicals per SAE J1455 such as natural gas, LPG, engine oil, and antifreeze.

Regulatory Compliance & Agency Listings

None.

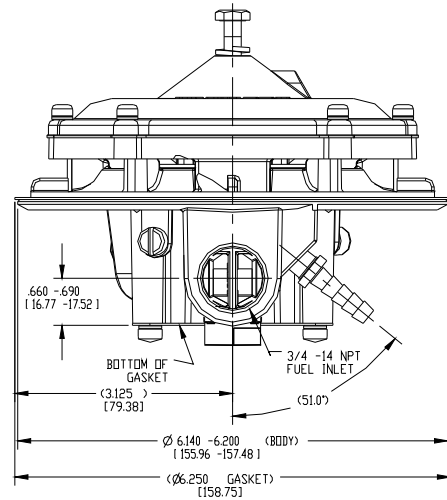
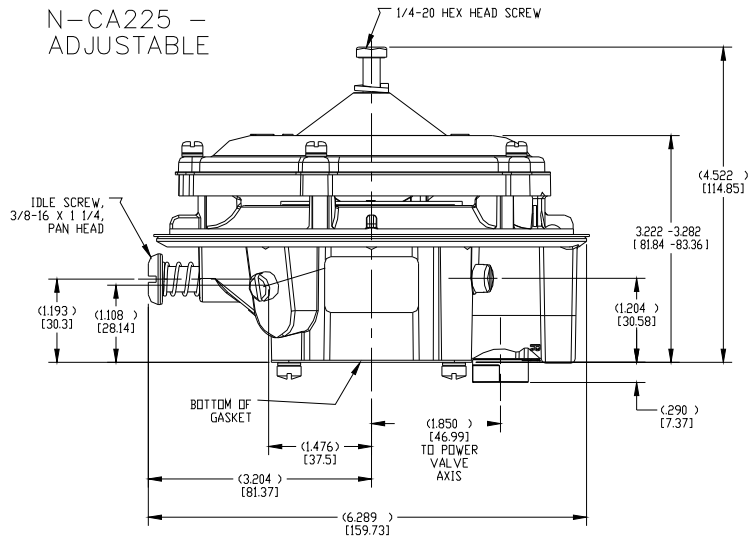
Stationary:

- Engines up to 177 kW (237 hp)
- 10.8 m³/min (380 ft³/min) air flow
- 645 m³/h (22 800 ft³/h) air flow

Vehicular:

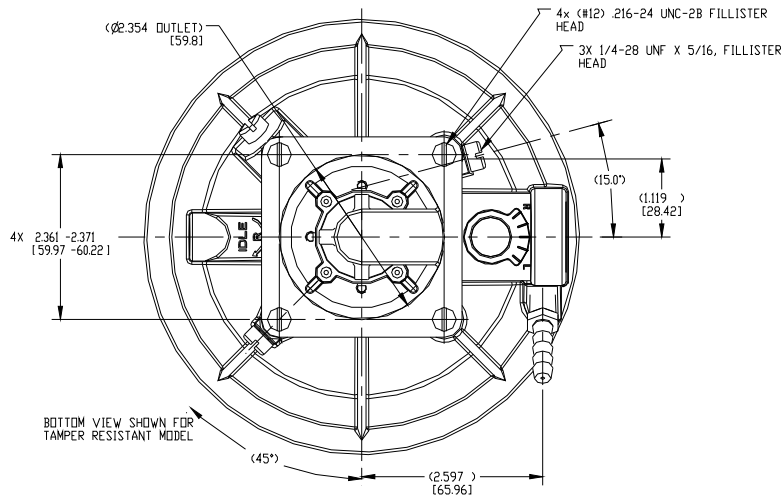
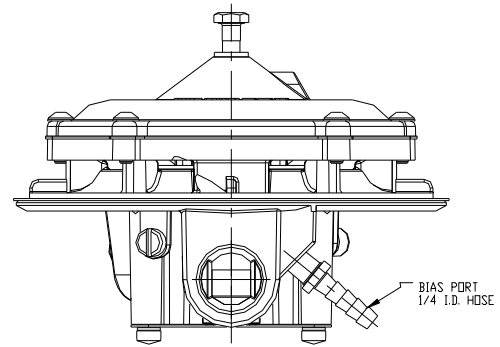
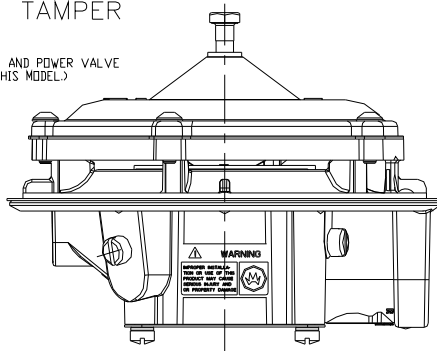
- Engines up to 153 kW (205 hp)
- 9.3 m³/min (329 ft³/min) air flow
- 559 m³/h (19 740 ft³/h) air flow

N-CA225 - ADJUSTABLE



N-CA225 - TAMPER RESISTANT

(IDLE SCREW, IDLE SPRING, AND POWER VALVE ADJUST NOT INCLUDED IN THIS MODEL)



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N-CA225 Carburetor Outline Drawing



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Distributors & Service

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