NG

LPG

2KN/3KN

COMPACT INTEGRATED REGULATOR

The IMPCO 2KN/3KN integrated regulator is a single stage multi-function, "zero governing" diaphragm actuated pressure regulating device, designed specifically to meet the stringent requirements of the emission compliant stationary and portable stand-by power generation market. The large diaphragm sensing chamber affords outstanding sensitivity and allows for extremely low cracking pressure (vacuum) characteristics, making it the flexible and reliable solution for engines with low manifold cranking vacuum or operating in low ambient thermal environment. The IMPCO 2KN/3KN integrated regulator is suitable for use on liquid or air-cooled engines and features an optimized fluid dynamic design maximizing power output to 35 kW with LPG (26 kW with NG) fuel.

The 2KN and 3KN integrated regulators are normally closed vacuum actuated valves and incorporate an electrically actuated 12V lock-off valve (24V optional) at the inlet providing a secondary fuel lock-off. The 3KN features a compact and configurable fuel selection valve (FSV) that allows engines to operate on either LPG or NG by simply turning the knob.

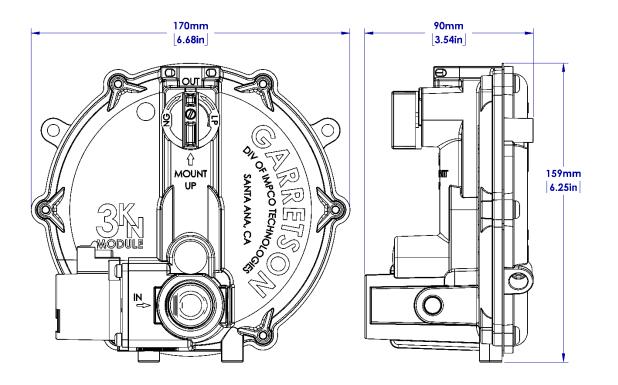
Key Features

- Designed for use with low pressure venturi- based systems installed on portable and stationary engines.
- Calibrated for minimal manifold vacuum signal and maximum sensitivity
- Fingertip switching between LPG and NG fuels
- Rugged aluminum casting and fiber loaded durable nylon plastic
- Outlet port available with full selection of IMPCO O-ring push-on fittings or with standard 3/8" NPT pipe thread port
- May require upstream pressure regulation to reduce fuel pressure to max allowed inlet pressure
- UL 2200 recognized (CSA 6.3, 6.3a, 6.3b, 6.5 certification optional)



SPECIFICATIONS

2KN/3KN INTEGRATED REGULATOR	
GENERAL INFORMATION	
MOUNTING	2x M6 threaded holes and 2x M6 clearance holes
APPLICATION	Industrial fuel systems for portable and stationary engines
DESIGN	Single stage, zero governing diaphragm actuated
BODY MATERIAL	Aluminum die casting
FUEL TYPE	LPG or NG
PERFORMANCE	
CAPACITY	LPG: 35 kW (47 HP) or NG: 26 kW (35 HP), @ 0.5 kPa (2.0" WC) vacuum and 26% thermal efficiency
INLET PRESSURE	3.48 kPa (14.0" WC) "Maximum Working" 0.75 kPa (3.0" WC) "Minimum"
CRACKING PRESSURE (VACUUM)	-0.03 kPa (13" WC) @ 5 SPLM
PRESSURE RELIEF VALVE	None
FUEL REQUIREMENTS	Compliant with HD-5, HD-10, or NG per SAE J1616
FILTER REQUIREMENTS	Integrated 500 micron stainless steel mesh
WORKING TEMPERATURE RANGE	-40 °C to 90 °C (-40 °F to 194 °F)
COIL MINIMUM OPERNING VOLTAGE	12 VDC (12 W): < 8.0 VDC @ 3.48 kPa (14.0" WC) @ -40 °C 24 VDC (16 W): < 17.0 VDC @ 3.48 kPa (14.0" WC) @ -40 °C
INSTALLATION REQUIREMENTS	Close to the carburetor to minimize line losses, arrow on the back cover pointing upward
MASS	940 g (2.07 lb)
TAMPER RESISTANCE	Meets EPA and CARB requirements
APPROVALS	
CERTIFICATIONS	UL 2200 recognized (CSA 6.3, 6.3a, 6.3b, 6.5 certification optional)





ISO 9001:2015 registered ISO 14001:2015 registered