



MODEL EV & PEV SERIES-TWO-STAGE CONVERTERS

TECHNICAL DESCRIPTION

The IMPCO Model EV & PEV Series are two-stage regulators / converters. They are intended for vapor withdrawal systems. Heating with engine coolant is not required. Diagnostic test ports are standard for both the primary and secondary pressure chambers, and a choice of diaphragm materials is available. EV & PEV Series regulators / converters are renewable with the appropriate repair kits.

The EV Series regulator is used primarily on propane fuel systems that require a negative pressure but do not require fuel vaporization. The EV is only available with the standard “B” (blue) spring. It is possible, however, to convert the unit to use with the optional “O” (orange) spring.

The PEV Series regulator is designed for positive-type CNG fuel systems where liquid vaporization is not required. Specific PEV regulators are available in several fixed out adjustable pressure units are also available. Fixed regulators can be converted in the field to adjustable with the C1-74 kit. Adjustable units can be converted to fixed outlet pressure by using the appropriate spring cover. This preferred for applications that are not subject to fuel quality variations, or for those where emissions are a concern (the spring cover acts as a deterrent to unauthorized tampering).

TECHNICAL SPECIFICATIONS

Type	CNG, Methane Vapor
Capacity	3.73 kW-150 kW (5-200hp) @ 1,034 kPa (150) psi inlet
Fuel Lock	Required
Mounting Position	Horizontal (recommended; can be mounted vertically if fuel is clean and free of excessive contaminants).
Maximum Inlet Pressure	2,150 kPa (312 psi)
Minimum Inlet Pressure	206.8 kPa (30 psi)
Outlet Pressure	0.673-2.24 kPa (2.7-9.0” w.c.)
Primary Pressure	13.79-27.58 kPa (2.0-4.0 psi)
Operating Temperature Range	-40° F to +120° C (-40° F to +250° F)
Filtration Requirement40 micron
Weight	1.25 kg (2.75 lbs.)
Certification	
Model EV	RQD E4 #67
Model PEV	UL, ULC, IAS, RWD E4 #67 (for PEV-1, -2,-3, -4)

