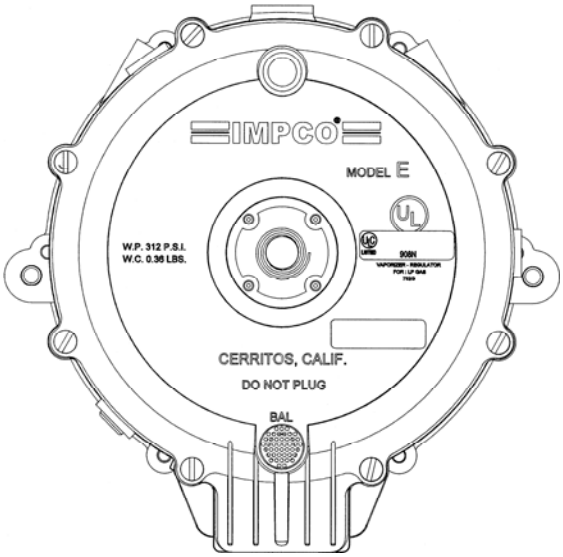
MODEL E & PE REGULATORS



DESCRIPTION

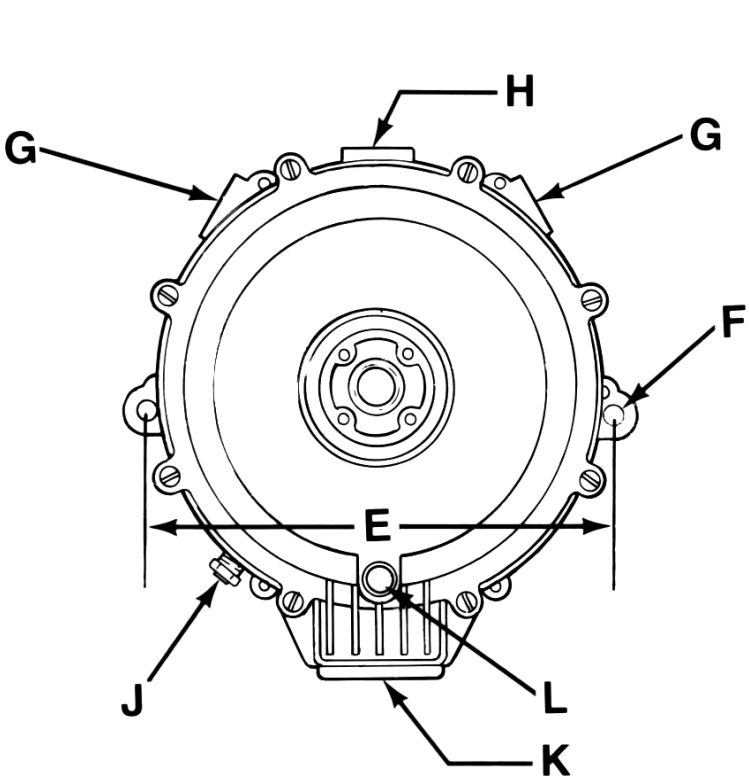
The model E & PE are engine heated two-stage regulator/vaporizers. The model E provides a choice of two negative outlet pressures. A blue secondary spring to provide a -1.5" w.c. (0.37 kPa) output and an optional orange secondary spring, provides -0.5" w.c. (0.12 kPa) output. A manual primer is standard on the Model E.

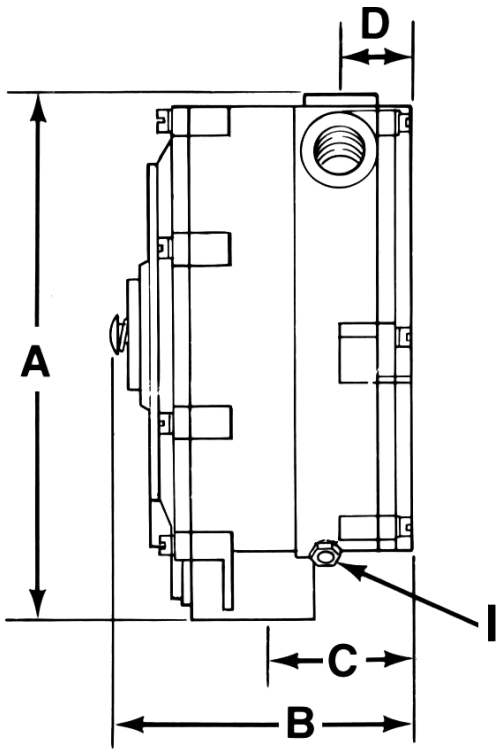
The model PE provides a positive outlet pressure for applications that require a positive feed system and/or the ability to vaporize liquid fuel. A heated regulator/vaporizer is not required of CNG (it is recommended that the Model PEV be used for these systems). Additional mixture stability is possible with the PE as a result of a more consistent fuel temperature gained through the use of the heated labyrinth. The PE is supplied as a fixed outlet pressure regulator but can be converted to an adjustable unit with the AC1-74 retrofit kit.

SPECIFICATIONS

Fuel Type	LPG Liquid/Vapor and Natural Gas
Inlet Pressure	
Maximum	312 psi (21.51 Bar)
Minimum	30 psi (207 kPa)
Operating Pressure:	
Model E	-1.5" w.c. (-0.37 kPa) Standard
Model PE	Nominal +5.0" w.c. (1.2 kPa) fixed
HP/kW	200 hp (150 kW)
Operating Temperature Range	-40°F to +250°F (-40°C to +121°C)
Fuel Filtration	40 micron
Heating Chamber Source	Required for liquid LPG
Mounting Position	Vertical, with outlet down recommended. Horizontal position can be used when fuel contamination can be controlled with HD-5 specified LPG fuel
Diaphragm Material	Hydrin, silicone and fluorosilicone (optional)
Applications	Stationary, mobile, industrial and automotive
Certification	UL (AU2317 & AU1502) Inquire for specific ECE approval

DIMENSIONS



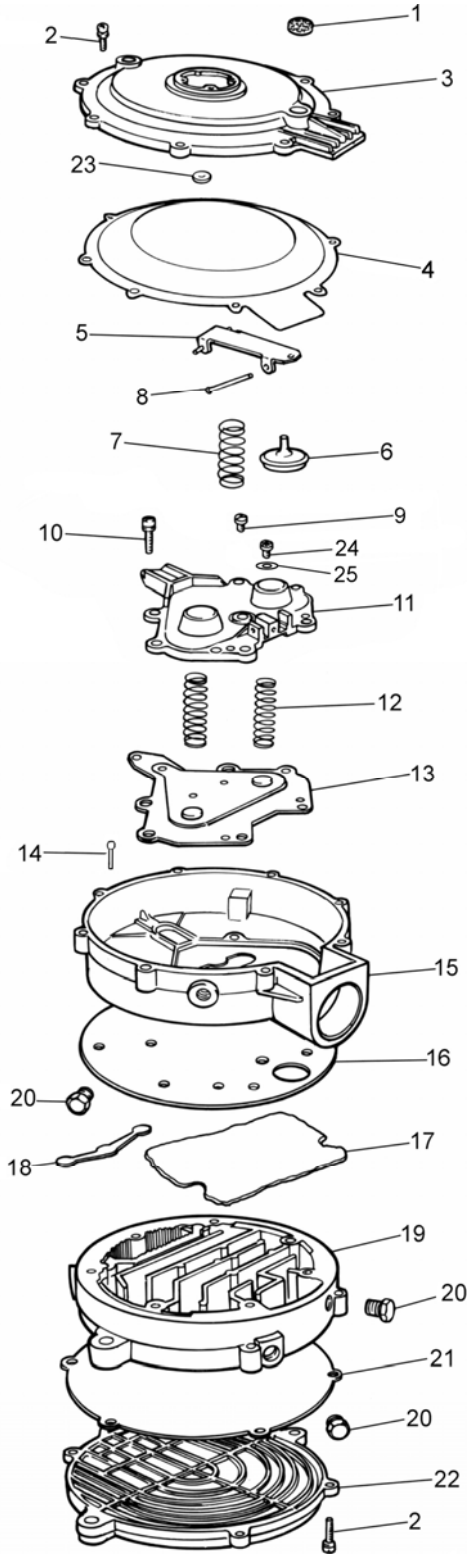


	A	B	C	D	E	F	G	H	I	J	K	L
STANDARD CONVERTER	OVERALL HEIGHT	OVERALL DEPTH	BACK OF CONVERTER TO CTR. OF FUEL OUTLET	BACK OF CONVERTER TO CTR. OF WATER OUTLET	MOUNTING HOLE CTR. TO CTR.	MOUNTING HOLES DIA.	COOLANT INLET AND OUTLET (NPT)	FUEL INLET (NPT)	PRIMARY TEST PORT (NPT)	SECONDARY TEST PORT (NPT)	FUEL OUTLET (NPT)	VENT BALANCE LINE (NPT)
EB, EB-2, EB-2ULC	184 mm (7.250")	102 mm (4.000")	50.8 mm (2.000")	25.0mm (0.98")	168 mm (6.625")	7.1 MM (0.281")	3/8"	1/4"	1/8"	1/8"	1"	1/8"
PE	184 mm (7.250")	114 mm (4.500")	50.8 mm (2.000")	25.0mm (0.98")	168 mm (6.625")	7.1 MM (0.281")	3/8"	1/4"	1/8"	1/8"	1"	1/8"
PE-8	184 mm (7.250")	127.7 mm (5.03")	50.8 mm (2.000")	25.0mm (0.98")	168 mm (6.625")	7.1 MM (0.281")	3/8"	1/4"	1/8"	1/8"	1"	1/8"
T-EB-2	184 mm (7.250")	102 mm (4.000")	50.8 mm (2.000")	25.0mm (0.98")	168 mm (6.625")	7.1 MM (0.281")	3/8"	1/4"	1/8"	1/8"	1"	1/8"

REGULATORS

COMPONENTS

ITEM #	PART #	DESCRIPTION
1	S7-1	Screen, Atmospheric Vent
2	S1-3*	Screw, 10-24 x 5/8" SEMS
3	NSS	Cover ass'y, Secondary PE Black Anodized
4	NSS* (1)	Diaphragm Assy, Secondary, Hydrin
	AD1-23* (2)	Diaphragm Assy, Secondary, Silicone
	NSS* (3)	Diaphragm, Assy Reg Sec Fvmq E
	NSS* (4)	Diaphragm, Assy Reg Sec Eco Pe
	NSS (5)	Diaphragm, Assy Reg Sec Vmq Pe
5	NSS*	Lever, Secondary
6	S4-37*	Seat, Secondary
7†	S2-22	Spring, Secondary Regulator (blue), Standard
	S2-23	Spring, Secondary Regulator (orange), Optional
8	NSS	Pin, Secondary Lever Fulcrum
9	S1-40*	Screw, 10-24 x 3/8" SEMS
10	S1-1555-002* (1)(2)(3)	Screw, 12-24 x 7/8" SEMS Model E ONLY
11	NSS	Cover, Primary Diaphragm
12	S2-13	Spring, Primary Regulator EB
13	AD1-15*	Diaphragm Assy, Primary
14	NSS*	Pin, Primary Valve
15	NSS	Body, Regulator E Series
16	G1-37*	Gasket, Regulator Body
17	NSS*	Sponge
18	NSS*	Seat, Primary
19	NSS	Body, Assy, Heat Exchanger
20	P3-13	Plug, Hex Head, 1/8 NPT
21	G1-30079*	Gasket, Heat Exchanger Cover
22	NSS	Cover, Heat Exchanger



NSS = Not Serviced Separately
* Repair kit components. (1) = RK-E; (2) = RK-E-2; (3) = RK-E-3; (4) RK-PE; (5) = RK-TE

† Two vapor outlet pressures are available. The Orange secondary spring gives Neg. 0.50" w.c. (Neg. 0.12 kPa) pressure. Blue secondary spring gives Neg. 1.50" w.c. (Neg. 0.37 kPa) pressure. To change any B regulator to O, change blue secondary spring to orange.

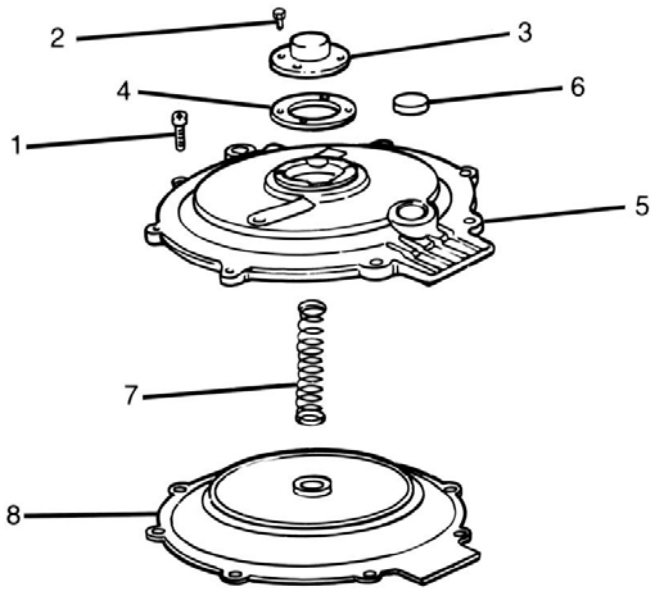
COMPONENTS (CONTINUED)

ITEM #	PART #	DESCRIPTION
1	S1-3*	Screw, 10-24 x 5/8" SEMS
2	S1-101* (4)	Screw, 6-32 x 1/4" SEMS
3	H3-3	Housing Spring
4	G1-84* (4) G1-84-2* (5)	Gasket, Spring Housing Gasket, Spring Housing
5	AC1-22-2	Cover Assy
6	S7-1	Screen, Atmospheric Vent
7	S2-37	Spring, Secondary
8	NSS* (4)	Diaphragm Assy, Secondary Hydrin

Serviced Separately

Note: AD1-14-2 not available in silicone.

nts. (4) = RK-PE; (5) = RK-TE



REGULATORS

STANDARD AND OPTIONAL EQUIPMENT

FUEL CONTROL VALVES

PART #	DESCRIPTION
SV*	Start assist valve, electric solenoid
VPV*	Vacuum power valve
FCV	Fuel control valve, computer feedback system.

*Use in secondary accessory port

PRIMER

PART #	DESCRIPTION
AB1-28	Mechanical primer, for E-series converters (also fits J- & L-series, cannot be used w/ECI)

GAUGE

PART #	DESCRIPTION
G2-2	For Models E & L secondary lever

REPAIR KITS

PART #	DESCRIPTION
RK-E	Repair Kit Model E
RK-E-2	Repair Kit Model E, w/ silicone diaphragm
RK-E-3	Repair Kit Model E
RK-PE	Repair Kit Model PE

STANDARD AND OPTIONAL EQUIPMENT

MODEL	SECONDARY DIAPHRAGM	FUEL OUTLET PRESSURE
PE	Hydrin	Converter, Ass'y
EB	Hydrin	Regulator, Ass'y
EB-2	Silicone	Regulator, Ass'y
EB-2ULC	Silicone	Regulator, Ass'y Canada