

2006 MASTER CATALOG



"A COMPANY DEDICATED TO A BETTER WORLD THROUGH CLEANER AIR"

**IMPCO TECHNOLOGIES INC.
16804 GRIDLEY PLACE
CERRITOS CA. 90703**

INTRODUCTION

This issue of the IMPCO Master Catalog contains information on the IMPCO, Beam, Garretson and Algas products currently available from IMPCO. The catalog covers all products supported in the specific product line. In this revision of the catalog IMPCO has combined the small engine, material handling, automotive and large engine components into one catalog. The catalog has been organized into four major sections by product each having four sub-sections which are mixers, regulators, lockoffs and accessories. Items which appear in the PART # section with the term NSS indicates that the part is no longer serviced separately and must be purchased as an assembly.

SUB-SECTIONS

* **SECTION 1 Mixers & Carburetors** --- Data for the IMPCO, Beam, Garretson and Algas mixers, carburetors, venturi, spud-in and adapters are identified in these sections. Each product line has a general information page, followed by a page which includes dimensional information. In some cases an exploded view of the part is supplied if individual items of the part are still serviced separately. If there are items which are identified as accessories for these parts they will be listed in the accessories page for the product line, such items include a list of the carburetors, adapters, and repair kits

* **SECTION 2 Regulators & Converters** --- Data for the IMPCO, Beam, Garretson and Algas regulators, converters and pressure reduction valves are identified in these sections. Each product line has a general information page, followed by a page which includes dimensional information. In some cases an exploded view of the part is supplied if individual items of the part are still serviced separately. If there are items which are identified as accessories for these parts they will be listed in the accessories page for the product line, such items include a list of the optional springs, covers and repair kits

* **SECTION 3 Fuel Locks & Filters** --- Data for the IMPCO, Beam, Garretson and Algas vacuum and filtered or non filtered electric fuel locks are identified in these sections. Each product line has a general information page, followed by a page which includes dimensional information. In some cases an exploded view of the part is supplied if individual items of the part are still serviced separately. If there are items which are identified as accessories for these parts they will be listed in the accessories page for the product line, such items include a list of the optional equipment and repair kits

* **SECTION 4 Small Parts & Accessories** --- Data for the IMPCO, Beam, Garretson and Algas supplemental equipment and parts used in the installation, maintenance and operation of products are identified in these sections. Included are mounting brackets, adapters, hoses, levers, air-gas valves, air filters, repair kits, fittings, fuel management system components and test equipment.



**WARNING**

**READ THE STATEMENTS BELOW BEFORE
INSTALLING ANY IMPCO EQUIPMENT**

**WARNING: IMPROPER INSTALLATION OR USE OF THIS PRODUCT
MAY CAUSE SERIOUS INJURY AND / OR PROPERTY DAMAGE.**

SERVICE TECHNICIANS AND USERS

You should carefully read and abide by the provisions set forth in National Fire Protection Association Pamphlets before installing any IMPCO, BEAM, ALGAS or GARRETSON products to insure compliance with the pamphlets or any other safety or emission regulations.

INSTALLERS

LPG installations in the United States must be done in accordance with Federal, State, or Local Law, whichever is applicable and National Fire Protection Association Pamphlet #58, Standard for Storage and Handling of Liquefied Petroleum Gases to the extent these standards are not in violation with Federal, State or Local Law.

IN CANADA refer to CAN / CGA-B149.2, Propane Installation Codes.

CNG INSTALLATIONS IN THE UNITED STATES must be done in accordance with Federal, State or Local Law and National Fire Protection Association Pamphlet #52, Compressed Natural Gas (CNG) Vehicular Fuel Systems to the extent these standards are not in violation with Federal, State or Local Law.

IN CANADA refer to CAN / CGA-B149.1, CNG Installation Codes.

LPG AND / OR NATURAL GAS INSTALLATIONS ON STATIONARY ENGINES must be done in accordance with Federal, State or Local Law and National Fire Protection Association Pamphlet #37, Stationary Combustion Engines and Gas Turbine Engines, to the extent these standards are not in violation with Federal, State or Local Law.

Failure to abide by the above will void any IMPCO warranty on the products and may cause serious injury or property damage.

Due to the inherent danger of gaseous fuels the IMPCO products **SHOULD NOT** be installed or used by persons not knowledgeable of the hazards associated with the use of gaseous fuels.

LPG AND / OR NATURAL GAS INSTALLATIONS ON INDUSTRIAL TRUCKS must be done in accordance with Federal State or Local Law and National Fire Protection Association Pamphlet # 505 Industrial Trucks, to the extent these standards are not in violation with Federal, State or Local Law.

Failure to abide by the above will void any IMPCO warranty on the products and may cause serious injury or property damage.

Due to the inherent danger of gaseous fuels the IMPCO products **SHOULD NOT** be installed or used by persons not knowledgeable of the hazards associated with the use of gaseous fuels.

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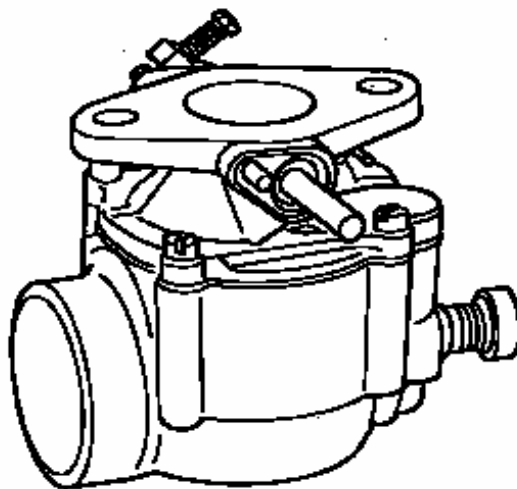


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FUEL METERING



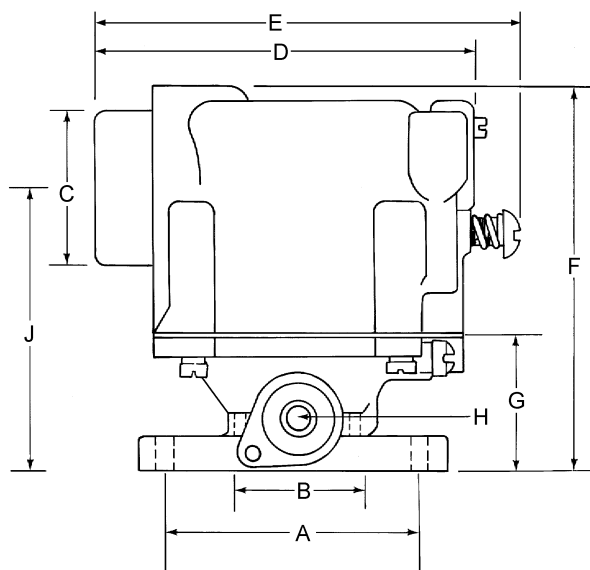
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MODEL CA55 STANDARD CARBURETOR**TECHNICAL DESCRIPTION**

The Standard model can be mounted in either an updraft, downdraft, or sidedraft orientation, supplying either LPG or Natural Gas to engines from 1 to 52 kW (1.5 to 70 hp). The maximum flow rate is 54.2 L/s (115 cfm). Various SAE flanges and Air Horn sizes are available.

TECHNICAL SPECIFICATIONS

Fuel.....	LPG or Natural Gas
Flow	54.2 L/s (115 cfm)
Horsepower Rating.....	1 to 52 kW (1.5 to 70 hp)

DIMENSIONS


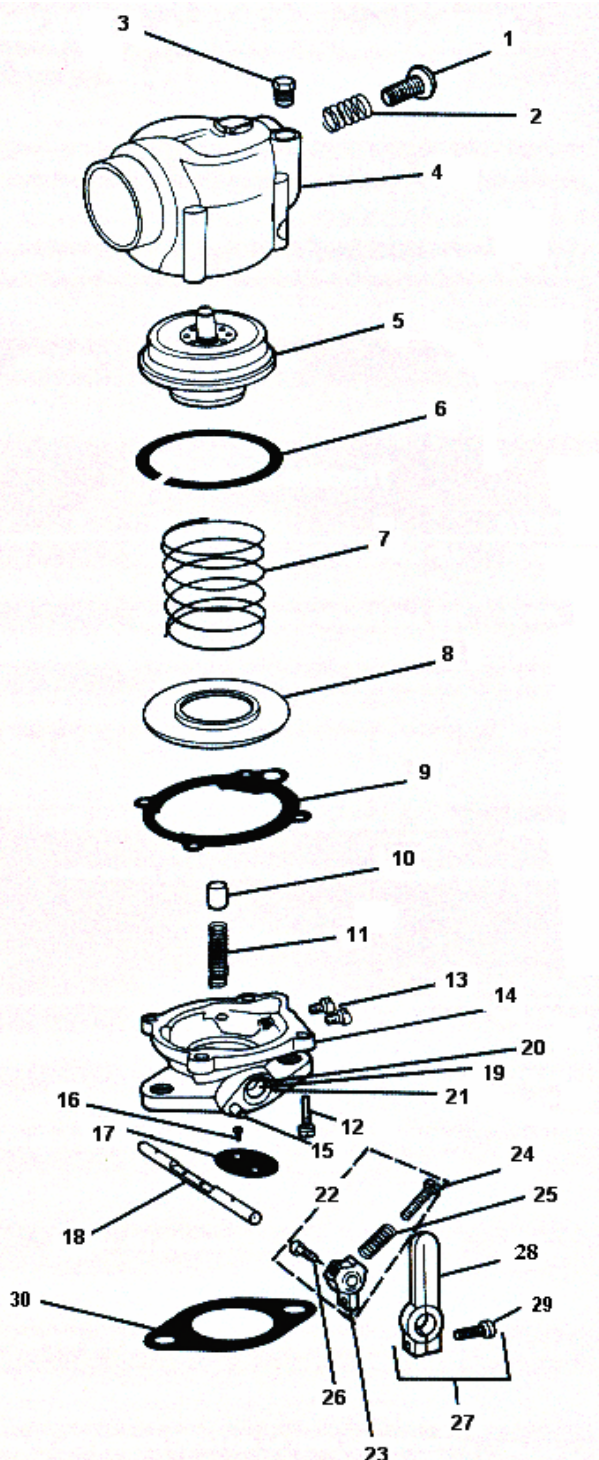
					A	B	C	D	E	F	G	H	J
MIXER	MIXER	THRTL. BODY	SAE FLANGE	NPT FUEL INLET	CTR. TO CTR. BOLT SPACING	BORE	AIR HORN DIA	OVERALL WIDTH	MAX WIDTH INCL. IDLE SCREW	OVERALL HEIGHT	THRTL. BODY HEIGHT	THRTL. SHAFT DIA	FLANGE TO CTR. OF AIR HORN
CA55-4	CA55M-2	BT2-25	3/4"	3/8"	57.2 mm (2.250")	27.0 mm (1.063")	41.3 mm (1.625")	96.9 mm (3.813")	122 mm (4.813")	95.3 mm (3.750")	33.4 mm (1.313")	6.4 mm (.250")	71.5 mm (2.813")
CA55-6	CA55M-4	BT2-26	1"	3/8"	60.3 mm (2.375")	30.2 mm (1.188")	47.6 mm (1.875")	96.9 mm (3.813")	122 mm (4.813")	95.3 mm (3.750")	33.4 mm (1.313")	6.4 mm (.250")	71.5 mm (2.813")
CA55-8	CA55M-5	BT2-27	1 1/4"	3/8"	68.3 mm (2.688")	30.2 mm (1.188")	52.4 mm (2.063")	96.9 mm (3.813")	122 mm (4.813")	95.3 mm (3.750")	33.4 mm (1.313")	6.4 mm (.250")	71.5 mm (2.813")
CA55-12	CA55M-1	AT2-25	3/4"	3/8"	57.2 mm (2.250")	27.0 mm (1.063")	38.1 mm (1.500")	96.9 mm (3.813")	122 mm (4.813")	95.3 mm (3.750")	33.4 mm (1.313")	6.4 mm (.250")	71.5 mm (2.813")
CA55-14	CA55M-1	BT2-26	1"	3/8"	60.3 mm (2.375")	30.2 mm (1.188")	38.1 mm (1.500")	96.9 mm (3.813")	122 mm (4.813")	95.3 mm (3.750")	33.4 mm (1.313")	6.4 mm (.250")	71.5 mm (2.813")
CA55-20	CA55M-20	BT2-26	1"	3/8"	60.3 mm (2.375")	30.2 mm (1.188")	41.3 mm (1.625")	96.9 mm (3.813")	122 mm (4.813")	95.3 mm (3.750")	33.4 mm (1.313")	6.4 mm (.250")	71.5 mm (2.813")
CA55-20-2	CA55M-2- 2	BT2-26	1"	3/8"	60.3 mm (2.375")	30.2 mm (1.188")	41.3 mm (1.625")	96.9 mm (3.813")	122 mm (4.813")	95.3 mm (3.750")	33.4 mm (1.313")	6.4 mm (.250")	71.5 mm (2.813")
CA55-40	CA55M-5	BT2-26	1"	3/8"	60.3 mm (2.375")	30.2 mm (1.188")	52.4 mm (2.063")	96.9 mm (3.813")	122 mm (4.813")	95.3 mm (3.750")	33.4 mm (1.313")	6.4 mm (.250")	71.5 mm (2.813")
CA55-40-2	CA55M-5	AT2-25	1"	3/8"	60.3 mm (2.375")	30.2 mm (1.188")	52.4 mm (2.063")	96.9 mm (3.813")	122 mm (4.813")	95.3 mm (3.750")	33.4 mm (1.313")	6.4 mm (.250")	71.5 mm (2.813")
CA55-64	CA55M-2	BT2-26-8	1"	3/8"	60.3 mm (2.375")	30.2 mm (1.188")	41.3 mm (1.625")	96.9 mm (3.813")	122 mm (4.813")	95.3 mm (3.750")	33.4 mm (1.313")	6.4 mm (.250")	71.5 mm (2.813")
CA55-66	CA55M-2	BT2-26-8	1"	3/8"	60.3 mm (2.375")	30.2 mm (1.188")	41.3 mm (1.625")	96.9 mm (3.813")	122 mm (4.813")	95.3 mm (3.750")	33.4 mm (1.313")	6.4 mm (.250")	71.5 mm (2.813")
CA55-079	Special Lean	BT2-78	1"	3/8"	60.3 mm (2.375")	30.2 mm (1.188")	52.4 mm (2.063")	96.9 mm (3.813")	122 mm (4.813")	95.3 mm (3.750")	33.4 mm (1.313")	6.4 mm (.250")	71.5 mm (2.813")
CT55-10	CNG T/R	AT2-26	1"	3/8"	60.3 mm (2.375")	30.2 mm (1.188")	47.6 mm (1.875")	96.9 mm (3.813")	122 mm (4.813")	95.3 mm (3.750")	33.4 mm (1.313")	6.4 mm (.250")	71.5 mm (2.813")

CT-403 Spec T/R

MODEL CA55 STANDARD CARBURETOR

ITEM #	PART #	DESCRIPTION
1	S1-74	Screw, idle
2	S2-88	Spring, idle screw
3	P3-13	Plug, 1/8 NPT
4	NSS	Body ass'y
5	AV1-14925	Air valve ass'y (std.)
6	NSS	Ring, air valve sealing
7	S2-45	Spring, air valve
8	NSS	Plate, ass'y
9	G1-92	Gasket, throttle body to mixer
10	P4-1	Piston, idle cutoff
11	S2-44	Spring, idle cutoff
12	S1-3	Screw, 10-24 x 5/8" SEMS (4)
13	S1-69	Screw, 1/4-28 x 5/16" (2)
14	NSS	(Refer to AT2 Throttle body charts)
15	NSS	Pin, throttle stop (2)
16	NSS	Screw, 6-32 x 1/4" SAE (2)
17	F2-1	Butterfly, 19.1 mm (.750")
18	F2-2	Butterfly, 25.4 mm (1.000")
19	S5-6	Throttle shaft, 6.4 mm (.250") dia.
20	B2-11	Bearing, Oilite, 6.4 mm (.250") I.D. (2)
21	NSS	Bearing, Needle, .687 x .500 x .625
22	S3-8	Seal, 6.4 mm (.250") shaft (2)
23	R1-9	Ring, seal retainer (2)
24	AL1-8-1	Throttle stop ass'y: 6.4 mm (.250") I.D.
25	NSS	Throttle stop lever
26	NSS	Stop screw, 10-32 x 3/4"
27	S2-15	Spring, idle stop screw
28	S1-18	Pin screw, throttle stop
29	AL1-7-1	Throttle lever w/screw
30	NSS	Throttle lever
	NSS	Screw, 10-24 x 5/8"
	G1-91	Gasket, 1/2" SAE flange
	G1-16	Gasket, 3/4" SAE flange
	G1-17	Gasket, 1" SAE flange
	G1-18	Gasket, 1-1/4" SAE flange
	G1-120	Gasket, flange

NSS = Not Serviced Separately





STANDARD EQUIPMENT AND ACCESSORIES
MIXER ASSEMBLIES

MIXER	BODY ASS'Y	AIR/GAS VALVE	AIR HORN DIA.	OVERALL WIDTH	OVERALL HEIGHT
CA55M-1	AB1-35-1	AV1-14925	38.1 mm (1.500")	81.0 mm (3.188")	61.9 mm (2.438")
CA55M-2	AB1-35-2	AV1-14925	41.3 mm (1.625")	81.0 mm (3.188")	61.9 mm (2.438")
CA55M-3	AB1-35-5	AV1-14925	44.4 mm (1.750")	81.0 mm (3.188")	61.9 mm (2.438")
CA55M-4	AB1-35-3	AV1-14925	47.6 mm (1.875")	81.0 mm (3.188")	61.9 mm (2.438")
CA55M-5	AB1-35-4	AV1-14925	52.4 mm (2.063")	81.0 mm (3.188")	61.9 mm (2.438")

THROTTLE BODIES

PART #	DESCRIPTION
AT2-25	3/4" SAE flange, 6.4 (2.50") shaft dia.
AT2-26	1" SAE flange, 6.4 (2.50") shaft dia.
AT2-26-2	1" SAE flange, 6.4 (2.50") shaft dia., w/ vacuum advance
AT2-27	1-1/4" SAE flange, 6.4 (2.50") shaft dia.
AT2-27-2	1-1/4" SAE flange, 6.4 (2.50") shaft dia., w/ vacuum advance
AT2-44	Metric, 53.0 mm (2.087"), 27.0 mm (1.063") bore, offset (modified)

RETURN SPRINGS (OPTIONAL)

PART #	DESCRIPTION
AS2-50-1	Throttle return, 6.4 mm (.250") shaft

THROTTLE SHAFT

PART #	DESCRIPTION
S5-1	6.4 mm (.250") diameter, 114 mm (4.500") long
S5-6	6.4 mm (.250") diameter, 121 mm (4.750") long (standard)

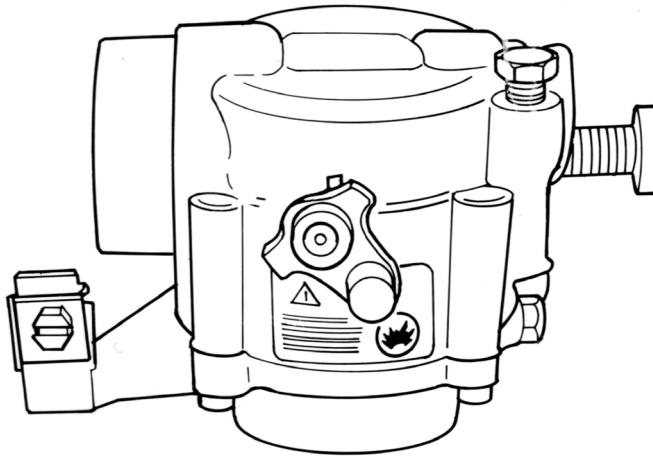
BRACKET (OPTIONAL)

PART #	DESCRIPTION
AB4-23	Bracket ass'y, boden wire: B4-23, C2-1, S1-8

LEVERS

PART #	DESCRIPTION
AL1-7-1	Assembly, 44.4 mm (1.750") long (standard)
AL1-7-2	Assembly, with 6.4 mm (.250") ball stud, 44.4 mm (1.750") long
AL1-7-3	Assembly, 33.4 mm (1.313") long
AL1-7-4	Assembly, w/ swivel, 44.4 mm (1.750") long
AL1-7-5	Assembly, w/ Wisconsin swivel, 6.4 mm (.250") mounting I.D., 20.7 mm (.813") long
AL1-8-1	Stop assembly, 6.4 mm (2.50") mounting I.D., 19.1 mm (.750") wide (standard)
AL1-8-3	Stop assembly, 6.4 mm (2.50") mounting I.D., cutdown 9.5 mm (.375") wide
AL1-25-1	Assembly, spring loaded, floating 6.4 mm (.250") mounting I.D., 34.9 mm (1.375") long
AL1-26-1	Assembly, floating 6.4 mm (.250") mounting I.D., 54.0 mm (2.125") long
AL1-31	Assembly, shaft clamp, 6.4 mm (.250") mounting I.D., 49.2 mm (1.938") long

MODEL CA55-250L CARBURETOR



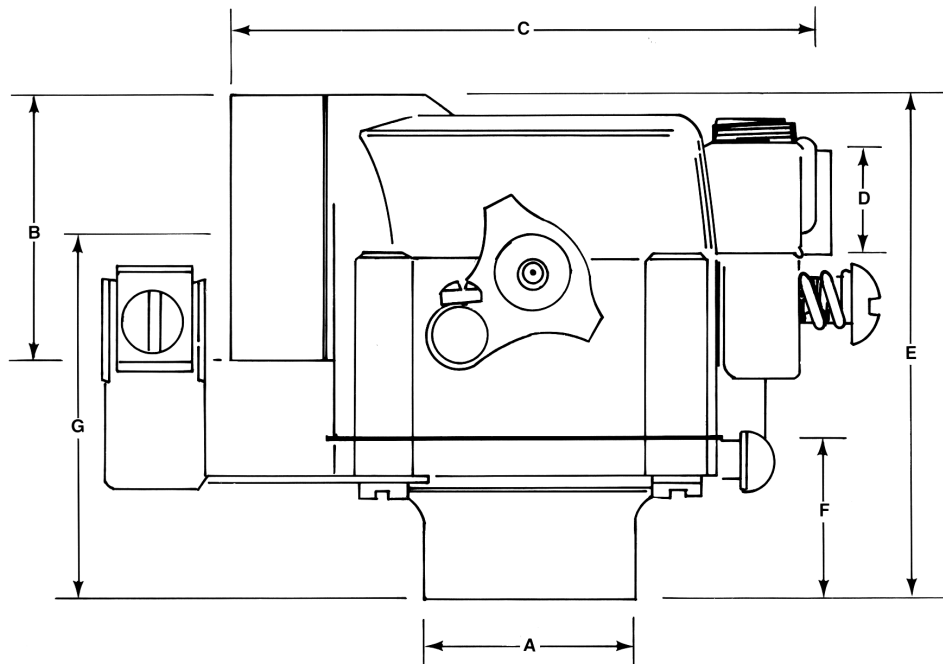
TECHNICAL DESCRIPTION

Engineered for bi-fuel applications, this model features a movable air-valve assembly, thus providing additional air flow requirements of LPG, Natural Gas, or Gasoline. It is designed for use on engines from 1 to 52 w (1.5 to 70 hp), with a flow rate of 54.2 L/s (115 cfm).

TECHNICAL SPECIFICATIONS

Fuel..... Bi-Fuel (LPG or Natural Gas and Gasoline)
Flow..... 54.2 L/s (115 cfm)
Horsepower Rating..... 1 to 52 kW (1.5 to 70 hp)

DIMENSIONS

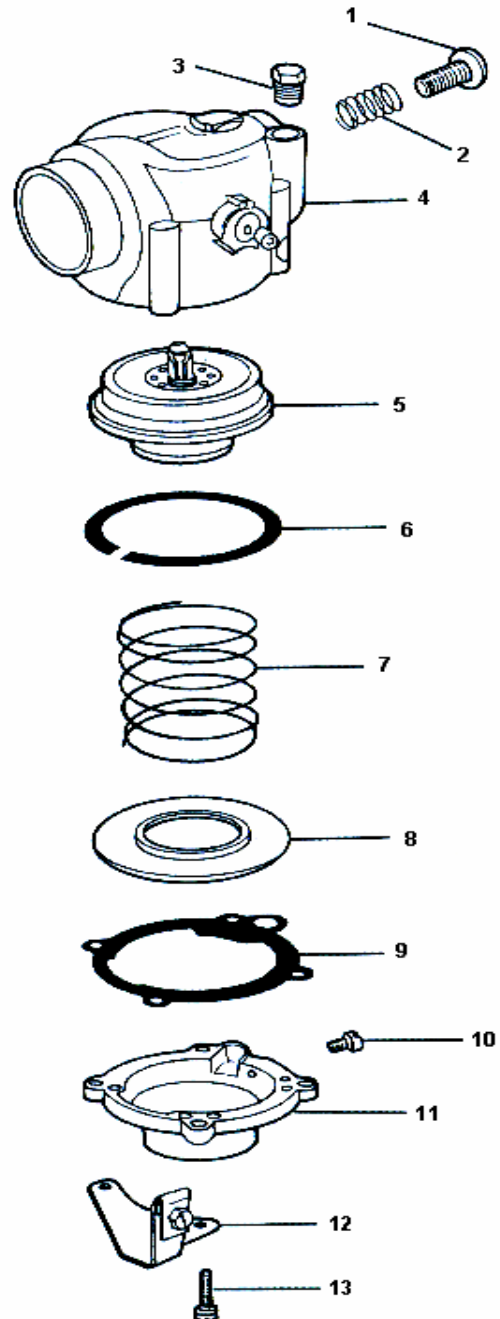


			A	B	C	D	E	F	G
STD. CARB.	HOSE ADAPTER	NPT FUEL INLET	HOSE ADAPTER DIA.	AIR HORN DIA.	OVRAL WIDTH	MAX WIDTH INCL. IDLE SCREW	OVRAL HEIGHT	HOSE ADAPTER HEIGHT	FLANGE TO AIR HORN FLANGE
CA55-256L	A3-83	3/8"	47.6 mm (1.875")	47.6 mm (1.875")	96.9 mm (3.813")	127 mm (5.000")	88.9 mm (3.500")	25.4 mm (1.000")	63.5 mm (2.500")
CA55-258 (no lifter)	A3-84	3/8"	52.4 mm (2.063")	52.4 mm (2.063")	96.9 mm (3.813")	127 mm (5.000")	88.9 mm (3.500")	25.4 mm (1.000")	63.5 mm (2.500")
CA55-258L	A3-84	3/8"	52.4 mm (2.063")	52.4 mm (2.063")	96.9 mm (3.813")	127 mm (5.000")	88.9 mm (3.500")	25.4 mm (1.000")	63.5 mm (2.500")

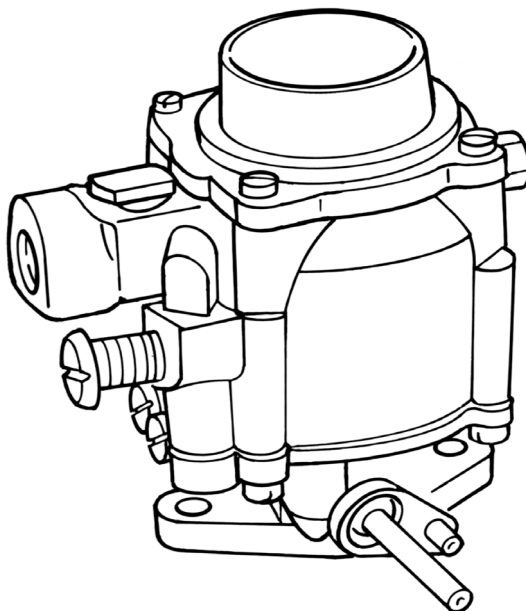
MODEL CA55-250L STANDARD CARBURETOR

ITEM #	PART #	DESCRIPTION
1	S1-74	Screw, idle
2	S2-88	Spring, idle screw
3	P3-13	Plug, 1/8 NPT
4	NSS	Body ass'y
5	AV1-14925	Air valve ass'y (std.)
6	NSS	Ring, air valve sealing
7	S2-45	Spring, air valve
	NSS	Spring, air valve (Europe)
8	NSS	Plate ass'y
9	G1-92	Gasket, throttle body to mixer
10	S1-69	Screw, 1/4-28 x 5/16" (2)
11	NSS	Adapter hose mount, 38.1 mm (1.500")
	NSS	Adapter hose mount, 41.3 mm (1.625")
	A3-83	Adapter hose mount, 47.6 mm (1.875")
	A3-84	Adapter hose mount, 52.4 mm (2.063")
	NSS	Adapter hose mount, 58.8 mm (2.313")
12	AB4-13	Bracket ass'y, Boden wire
13	S1-3	Screw, 10-24 x 5/8" SEMS (4)

NSS = Not Serviced Separately



MODEL CA55-500L STANDARD CARBURETOR

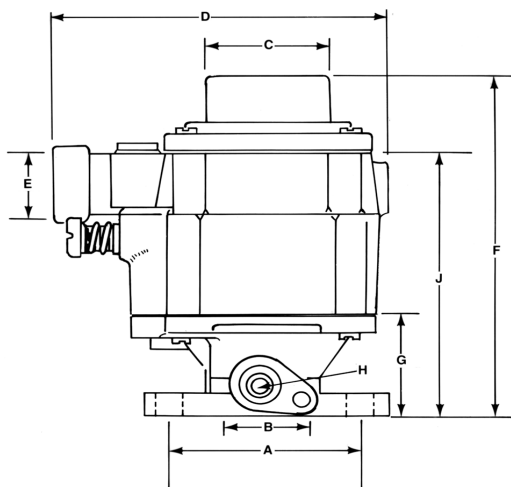


TECHNICAL DESCRIPTION

This CA55 Series is for use with either LPG or Natural Gas on engines from 1 to 56 kW (1.5 to 75 hp) with a flow rate of 59.0 L/s (125 cfm). This flow-through design may be mounted in either downdraft, updraft, or sidedraft configuration. Various Air Horns and flange sizes are available.

TECHNICAL SPECIFICATIONS

Fuel..... LPG or Natural Gas and Gasoline
Flow..... 59.0 L/s (125 cfm)
Horsepower Rating..... 1 to 56 kW (1.5 to 75 hp)

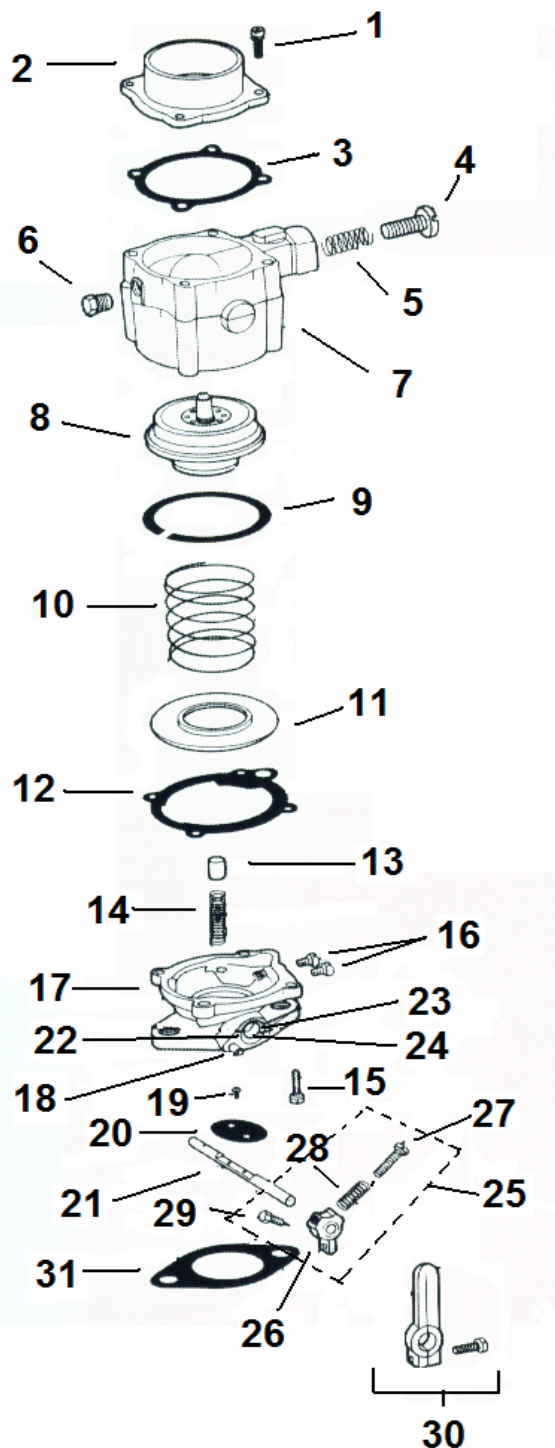
DIMENSIONS


					A	B	C	D	E	F	G	H	J
STD. CARB	MIXER	THRTL. BODY	SAE FLANGE	AIR HORN ADAPT.	CTR.T0 CTR. BOLT SPACING	BORE	AIR HORN DIA.	OVERALL WIDTH	NPT FUEL INLET	OVERALL HEIGHT	THRTL. BODY HEIGHT	THRTL. SHAFT DIA.	FLANGE TO TOP OF MIXER
CA55-503	CA55M-500	BT2-27-1-73	1-1/4"	A2-66	68.3 mm (2.688")	30.2 mm (1.188")	57.2 mm (2.250")	104.8 mm (4.125")	3/8"	112.7 mm (4.438")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA55-506	CA55M-500	BT2-26	1"	A2-38	60.3 mm (2.375")	30.2 mm (1.188")	47.6 mm (1.875")	104.8 mm (4.125")	3/8"	112.7 mm (4.438")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA55-508	CA55M-500	BT2-27	1-1/4"	A2-39	68.3 mm (2.688")	30.2 mm (1.188")	52.4 mm (2.063")	104.8 mm (4.125")	3/8"	112.7 mm (4.438")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA55-510	CA55M-500	BT2-27	1-1/4"	A2-41	68.3 mm (2.688")	30.2 mm (1.188")	74.6 mm (2.938")	104.8 mm (4.125")	3/8"	117.5 mm (4.625")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA55-524	CA55M-500	BT2-26-6L	1"	A2-35	60.3 mm (2.375")	30.2 mm (1.188")	54.0 mm (2.125")	104.8 mm (4.125")	3/8"	112.7 mm (4.438")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA55-542	CA55M-500	BT2-26-4	1"	A2-35	60.3 mm (2.375")	30.2 mm (1.188")	54.0 mm (2.125")	104.8 mm (4.125")	3/8"	112.7 mm (4.438")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA55-553	CA55M-500	BT2-26-7	1"	A2-65	60.3 mm (2.375")	30.2 mm (1.188")	49.2 mm (1.938")	104.8 mm (4.125")	3/8"	128.6 mm (5.063")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA55-553-2	CA55M-500	BT2-26-7	1"	A2-65	60.3 mm (2.375")	30.2 mm (1.188")	49.2 mm (1.938")	104.8 mm (4.125")	3/8"	128.6 mm (5.063")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA55-576	CA55M-500	BT2-44-1		A2-59	53.0 mm (2.087")	27.0 mm (1.063")	43.0 mm (1.693")	104.8 mm (4.125")	3/8"	112.7 mm (4.438")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA55-577	CA55M-500	BT2-44-2		A2-59	53.0 mm (2.087")	27.0 mm (1.063")	43.0 mm (1.693")	104.8 mm (4.125")	3/8"	112.7 mm (4.438")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA55-577-2	CA55M-500	BT2-44-2		A2-59	53.0 mm (2.087")	27.0 mm (1.063")	43.0 mm (1.693")	104.8 mm (4.125")	3/8"	112.7 mm (4.438")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA55-596	CA55M-500	BT2-27-027	1-1/4"	A2-61	68.3 mm (2.688")	30.2 mm (1.188")	63.5 mm (2.500")	104.8 mm (4.125")	3/8"	103.2 mm (4.063")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA596-2	CA55M-500	BT2-27-027	1-1/4"	A2-61-2	68.3 mm (2.688")	30.2 mm (1.188")	63.5 mm (2.500")	104.8 mm (4.125")	3/8"	103.2 mm (4.063")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA55-598	CA55M-500	BT2-27-2	1-1/4"	A2-61	68.3 mm (2.688")	30.2 mm (1.188")	63.5 mm (2.500")	104.8 mm (4.125")	3/8"	103.2 mm (4.063")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA55-598-2	CA55M-500	BT2-27-2	1-1/4"	A2-61-2	68.3 mm (2.688")	30.2 mm (1.188")	63.5 mm (2.500")	104.8 mm (4.125")	3/8"	103.2 mm (4.063")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA55-599-2	CA55M-500	BT2-27-6	1-1/4"	A2-61-2	68.3 mm (2.688")	30.2 mm (1.188")	63.5 mm (2.500")	104.8 mm (4.125")	3/8"	103.2 mm (4.063")	33.4 mm (1.313")	6.4 mm (.250")	87.3 mm (3.438")
CA55-271	Replacement carburetor for Toyota 4Y engine												

MODEL CA55-500L STANDARD CARBURETOR

ITEM #	PART #	DESCRIPTION
1	S1-3	Screw, 10-24 x 5/8" SEMS (4)
2		Air horn adapter, Ref. to chart in Acces.
3	G1-101	Gasket, air horn
4	S2-88	Spring, idle screw
5	S1-74	Screw, idle
6	P3-13	Plug, 1/8" pipe
7	NSS	Body, ass'y
8	AV1-14925	Air valve ass'y (std.)
9	NSS	Ring, air valve sealing
10	S2-45	Spring, air valve
11	NSS	Plate ass'y
12	G1-92	Gasket, throttle body to mixer
13	P4-1	Piston, idle cutoff
14	S2-44	Spring, idle cutoff
15	S1-3	Screw, 10-24 x 5/8" SEMS (4)
16	S1-69	Screw, 1/4-28 x 5/16" (2)
17	NSS	Throat, 1/2" SAE flange
18	NSS	Pin, throttle stop
19	S1-22	Screw, 6-32 x 1/4" SEMS (2)
20	F2-1	Butterfly, 19.1 mm (.750")
	F2-2	Butterfly, 25.4 mm (1.000")
21	S5-6	Throttle shaft, 6.4 mm (.250") dia.
22	B2-11	Bearing, Oilite, 6.4 mm (.250") I.D. (2)
23	S3-8	Seal, 6.4 mm (.250") shaft (2)
24	R1-9	Ring, seal retainer (2)
25	AL1-8-1	Throttle stop ass'y., 6.4 mm (.250") I.D.
26	NSS	Throttle stop lever
27	S1-21	Stop screw, 10-32 x 3/4"
28	S2-15	Spring, idle stop screw
29	S1-18	Screw pin, throttle stop
30	AL1-7-1	Throttle lever w/ screw
31	G1-91	Gasket, 1/2" SAE flange
	G1-16	Gasket, 3/4" SAE flange
	G1-17	Gasket, 1" SAE flange
	G1-18	Gasket, 1-1/4" SAE flange

NSS = Not Serviced separately.





SECTION 1: CARBURETORS & MIXERS CA55-500L SERIES

STANDARD EQUIPMENT AND ACCESSORIES

MIXER ASSEMBLIES

MIXER	BODY ASS'Y	AIR/GAS VALVE	OVERALL WIDTH	OVERALL HEIGHT
CA55M-500	AB1-38	AV1-14925	104.8 mm (4.125")	57.2 mm (2.250")
CA55M-500-2	AB1-38	AV1-14926	104.8 mm (4.125")	57.2 mm (2.250")
CA55M-500-4	AB1-38-4	AV1-14925	104.8 mm (4.125")	57.2 mm (2.250")
CA55M-500-9	AB1-38-9	AV1-14925	104.8 mm (4.125")	57.2 mm (2.250")
CT55M-500	AB1-38-9	AV1-14925	104.8 mm (4.125")	57.2 mm (2.250")

THROTTLE BODIES

PART #	DESCRIPTION
AT2-25	3/4" SAE flange, 6.4 mm (.250") shaft dia.
AT2-25-2	3/4" SAE flange, 6.4 mm (.250") shaft dia. w/ vacuum advance
AT2-26	1" SAE flange, 6.4 mm (.250") shaft dia.
AT2-26-2	1" SAE flange, 6.4 mm (.250") shaft dia., w/ vacuum advance
AT2-27	1-1/4" SAE flange, 6.4 mm (.250") shaft dia.
AT27-27-2	1-1/4" SAE flange, 6.4 mm (.250") shaft dia., w/ vacuum advance
AT2-27-4	1-1/4" SAE flange, 6.4 mm (.250") shaft dia. w/AL1-7-3 & AS2-50-1
AT2-44-577	Metric, 53.0 mm, (2.087") 1-1/16" bore, offset (modified)

AIR HORN ADAPTERS

PART #	DESCRIPTION	PART #	DESCRIPTION
A2-36	38.1 mm (1.500") dia.	A2-59	Adptr, Air/Clnr 1.69" OD
A2-37	41.3 mm (1.625") dia.	A2-76	Adapter, Air Horn CA55
A2-38	47.6 mm (1.875") dia.		
A2-39	52.4 mm (2.063") dia.		
A2-41	58.8 mm (2.313") dia.		
A2-44	AF1-5 air cleaner to CA55-500 series adapter		
A2-65	Air Horn, Toy 4Y CA 55		

LEVERS

PART #	DESCRIPTION
AL1-7-1	Assembly, 44.5 mm (1.750") long (standard)
AL1-7-2	Assembly, with 6.4 mm (.250") ball stud, 44.5 mm (1.750") long
AL1-7-3	Assembly, 33.4 mm (1.313") long
AL1-7-4	Assembly, w/ swivel, 44.5 mm (1.750") long
AL1-7-5	Assembly, w/ Wisconsin swivel, 6.4 mm (.250") mounting I.D., 20.7 mm (.813") long
AL1-25-1	Assembly, spring loaded, floating 6.4 mm (.250") mounting I.D., 34.9 mm (1.375") long
AL1-26-1	Assembly, floating, 6.4 mm (.250") mounting I.D., 54.0 mm (2.125") long
AL1-31	Assembly, shaft clamp, 6.4 mm (.250") mounting I.D., 49.2 mm (1.938") long

• See lever section of catalog for other optional levers.

• AL-7-1 Through AL1-7-4 levers used w/ AL1-8-1 lever stops.

RETURN SPRINGS ASSEMBLIES (OPTIONAL)

PART #	DESCRIPTION
AS2-50-1	Throttle return, 6.4 mm (.250") shaft

BRACKET (OPTIONAL)

PART #	DESCRIPTION
AB4-23	Bracket ass'y, Boden wire: B4-23, C2-1, S1-8

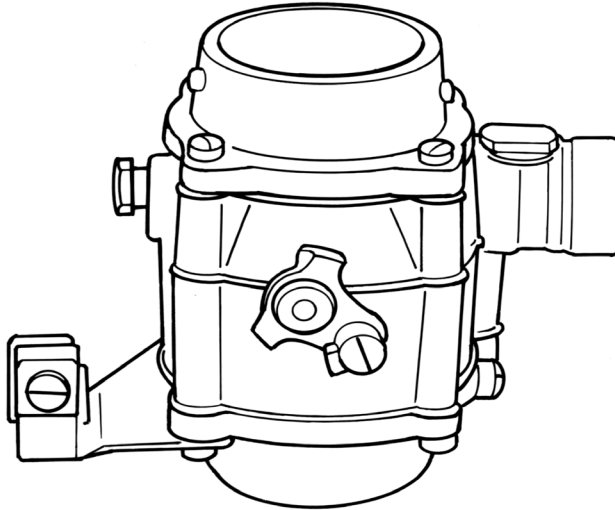
AIR CLEANER (OPTIONAL)

PART #	DESCRIPTION
AF1-5	Ass'y, 4.25 m3/ min (150 cfm), 171.5 mm (6.750") O.D., 60.3 mm (2.375") high

THROTTLE SHAFTS

PART #	DESCRIPTION
S5-1	6.4 mm (.250") diameter, 114.3 mm (4.500") long
S5-6	6.4 mm (.250") diameter, 120.7 mm (4.750") long (standard)

**MODEL CA55-750L STANDARD CARBURETOR
FOR NG, LPG & GASOLINE BI-FUEL OPERATION**



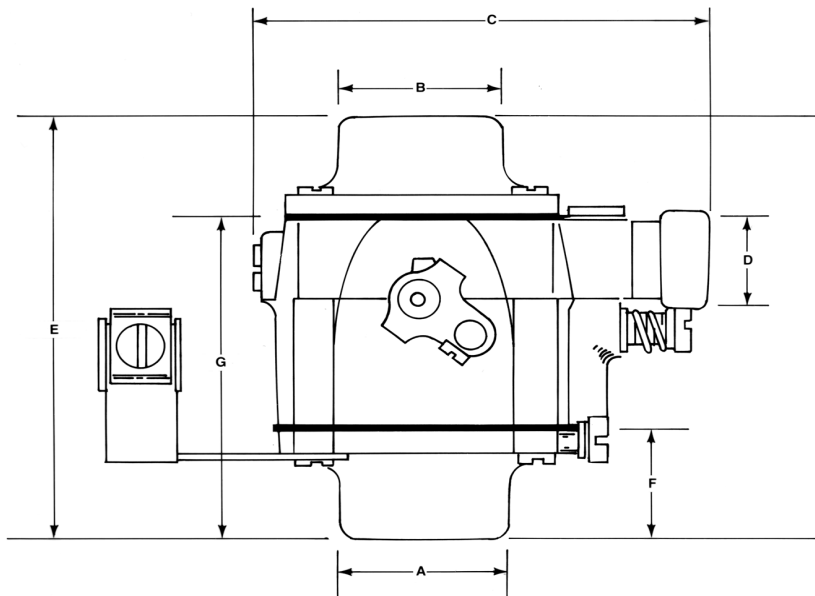
TECHNICAL DESCRIPTION

The 750L Series is a 59.0 L/s (125 cfm) bi-fuel carburetor, suitable for engines from 1 to 56 kW (1.5 to 75 hp). The moveable air/valve assembly optimizes air flow for LPG, Natural Gas (NG) or Gasoline. The flow-through design allows mounting in the inlet air stream. Various Air Horn sizes are available to suit individual applications.

TECHNICAL SPECIFICATIONS

Fuel.....	Bi-Fuel, LPG or Natural Gas and Gasoline
Flow.....	59.0 L/s (125 cfm)
Horsepower Rating.....	1 to 56 kW (1.5 to 75 hp)

DIMENSIONS

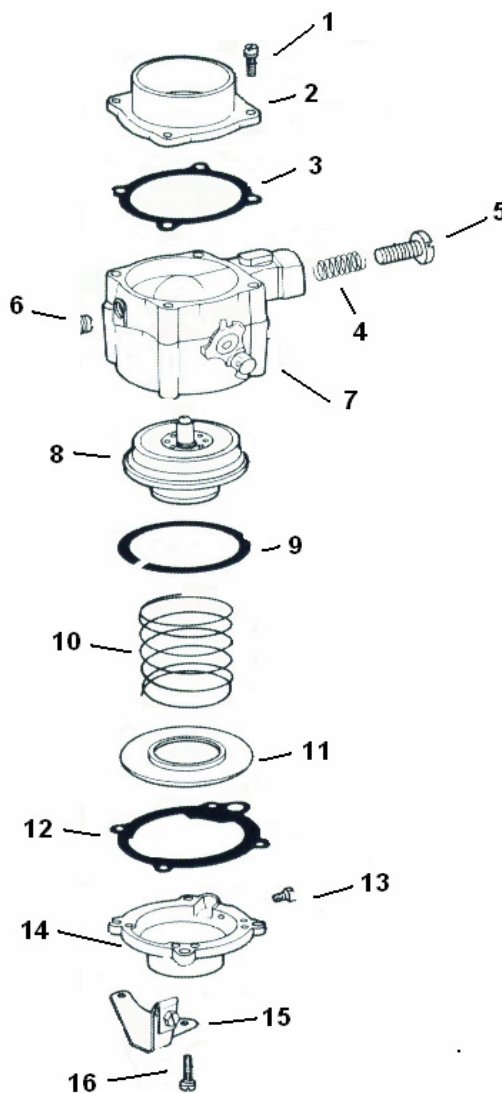


				A	B	C	D	E	F	G
STD. CARB	MIXER	HOSE ADAPTER	MIXER AIR HORN	HOSE ADAPTER DIA.	MIXER AIR HORN DIA.	OVERALL WIDTH	NPT FUEL INLET	OVERALL HEIGHT	HOSE ADAPTER HEIGHT	FLANGE TO AIR HORN FLANGE
CA55-754L	CA55M-750L	A3-83	A2-38	47.6 mm (1.875")	47.6 mm (1.875")	104.8 mm (4.125")	3/8"	104.8 mm (4.125")	25.4 mm (1.000")	79.4 mm (3.125")
CA55-756L	CA55M-750L	A3-84	A3-84	52.4 mm (2.063")	52.4 mm (2.063")	104.8 mm (4.125")	3/8"	104.8 mm (4.125")	25.4 mm (1.000")	79.4 mm (3.125")
CA55-758L	CA55M-750L	A3-85	A2-41	58.8 mm (2.313")	58.8 mm (2.313")	104.8 mm (4.125")	3/8"	104.8 mm (4.125")	25.4 mm (1.000")	79.4 mm (3.125")

MODEL CA55-750L STANDARD CARBURETOR

ITEM #	PART #	DESCRIPTION
1	S1-3	Screw, 10-24 x 5/8" SEMS (4)
2		Air Horn adapter (refer to chart for proper size)
3	G1-101	Gasket, Air Horn
4	S2-88	Spring, idle screw
5	S1-74	Screw, idle
6	P3-13	Plug, 1/8 NPT
7	AB1-38-2	Body ass'y, complete w/ lifter
8	AV1-14925	Air valve ass'y
	NSS	Air valve ass'y (lean)
	NSS	Air valve ass'y (Europe)
9	NSS	Ring, air valve sealing
10	S2-45	Spring, air valve
	NSS	Spring, air valve (Europe)
11	NSS	Plate ass'y
12	G1-92	Gasket, throttle body to mixer
13	S1-69	Screw, 1/4-28 x 5/16" (2)
14	NSS	Adapter, hose mounting, 38.1 mm (1.500")
	NSS	Adapter, hose mounting, 41.3 mm (1.625")
	A3-83	Adapter, hose mounting, 47.6 mm (1.875")
	A3-84	Adapter, hose mounting, 52.4 mm (2.063")
	NSS	Adapter, hose mounting, 58.8 mm (2.313")
15	AB4-13	Bracket ass'y, Boden wire
16	S1-3	Screw, 10-24 x 5/8" SEMS (4)

NSS = Not Serviced Separately



STANDARD EQUIPMENT AND ACCESSORIES**MIXER ASSEMBLIES**

STANDARD MIXER	BODY ASS'Y	AIR/GAS VALVE	OVERALL WIDTH	NPT FUEL INLET	OVERALL HEIGHT
CA55M-750L	AB1-38-2	AV1-14295	104.8 mm (4.125")	3/8"	57.2 mm (2.250")

AIR HORN ADAPTERS

PART #	DESCRIPTION
A2-36	38.1 mm (1.500") dia.
A2-37	41.3 mm (1.625") dia.
A2-38	47.6 mm (1.875") dia.
A2-39	52.4 mm (2.063") dia.
A2-41	58.8 mm (2.313") dia.
A2-44	AF1-5 air cleaner to CA55-500 Series adapter

AIR CLEANERS (OPTIONAL)

PART #	DESCRIPTION
AF1-5	Ass'y 4.25 m3/min (150 cfm), 171.5 mm (6.750") O.D., 60.3 mm (2.375") high



SECTION 1: CARBURETORS & MIXERS CA55 SERIES

CARBURETOR DESCRIPTIONS

CA55 SERIES 90° Air Horn

CARBURETORS	
CA55-107	Carburetor Assembly
CA55-0258	Carb. Ass'y Lean
CA55-0562	HDTM Carb.. Special
CA55-079	1-1/4" SAE flange, lean flow
CA55-12	Carburetor, 3/4" SAE flange, 3/4" Air Horn
CA55-14	1" SAE flange 1 -1/2" Air Horn
CA55-20	1" SAE flange 1-5/8" Air Horn
CA55-20-2	1" SAE flange 1-5/8" Air Horn, lean air gas valve ass'y.
CA55-256L	1-7/8" Air Horn, 1-7/8" hose, dual fuel, w/ lifter
CA55-258	2-1/16" hose, 2-1/16" Air Horn without lifter
CA55-258L	2-1/16" Air Horn, 2-1/16" hose, dual fuel, w/ lifter
CA55-271	Carburetor
CA55-4	3/4" SAE flange, 1-5/8" Air Horn
CA55-40	1" SAE flange, 2-1/16" Air Horn
CA-40-2	1" SAE flange, 2-1/16" Air Horn, w/ vacuum advance
CA55-6	1" SAE flange, 1-7/8" Air Horn
CA55-64	1" SAE flange, 1-5/8" Air Horn, w/ 1/4" hole in lever at 1"R, 4" shaft
CA55-66	1" SAE flange, 1-5/8" Air Horn, w/ 1/4" hole in lever at 1"R, 4" shaft
CA55-8	1-1/4" SAE flange, 2-1/16" Air Horn
CA55-8	1-1/4" SAE flange, 2-1/16" Air Horn

CA55 SERIES 90° Air Horn

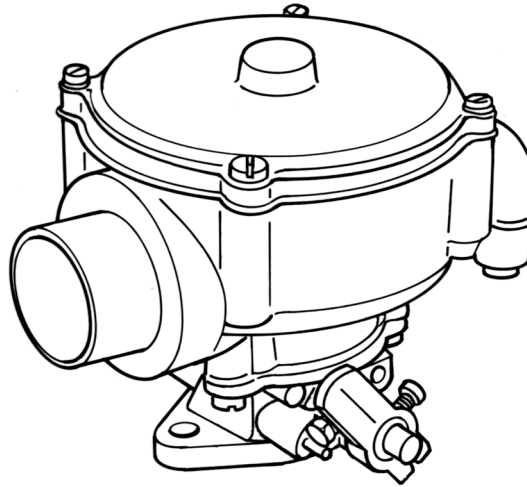
MIXERS	
CA55M-1	Mixer, 1-1/2" Air Horn HTDM
CA55M-2	Mixer, 1-5/8" Air Horn HDTM
CA55M-3	Mixer, 1-3/4" Air Horn Black
CA55M-4	Mixer, 1-7/8" Air Horn HDTM
CA55M-5	Mixer Ass'y Model CA55M

CA55 SERIES STRAIGHT DRAFT

CARBURETORS	
CA55-503	1-1/4" SAE flange, 2-1/4" Air Horn, with drilled shaft
CA55-506	1" SAE flange, 1-7/8" Air Horn
CA55-508	Carb. 1-1/4 SAE 1-2/16 HDTM
CA55-510	1-1/4" SAE flange, 2-5/16" Air Horn
CA55-524	1" SAE flange, Toyota
CA55-542	1" SAE flange, Toyota
CA55-553	1" SAE flange, w/ A2-65 & A3-113 adapters, Toyota
CA55-553-2	1" SAE flange, w/ A2-65 & A3-113 adapters, lean flow, Toyota
CA55-576	Hyster special flange, 43 mm Air Horn, short lever w/ throttle return
CA55-577	53 mm flange, 43 mm Air Horn, standard flow
CA55-577-2	53 mm flange, 43 mm Air Horn, lean flow
CA55-577-3	53 mm flange, 43 mm Air Horn, lean flow
CA55-596	1-1/4" SAE flange, A2-61 Air Horn
CA55-596-2	1-1/4" SAE flange, A2-61 Air Horn w/Tapped A/H 8 mm
CA55-598	Standard Mixer Ass'y
CA55-598-2	Standard Mixer w/A2-61-2 HTDM LPG
CA55-599-2	1-1/4" SAE flange, 2-1/4" Air Horn, tapped 8 mm less levers
CA55-756L	2-1/16" Air Horn, 2-1/16" hose, dual fuel, with lifter
CA55-758L	2-5/16" Air Horn, 2-5/16 hose, dual fuel, with lifter
CA55-756L	2-1/16" Air Horn, 2-1/16" hose, dual fuel, with lifter
CA55-758L	2-5/16" Air Horn, 2-5/16 hose, dual fuel, with lifter

CA 55 SERIES STRAIGHT DRAFT

MIXERS	
CA55M-500	Series 500, straight draft mixer
CA55M-500-2	Series 500, straight draft mixer with lean air/gas valve ass'y.
CA55M-500-4	Series 500, straight draft mixer with lean body, lean full range
CA55M-500-9	Series 500, straight draft mixer with lean body, WOT
CA55M-750L	Series 500, straight draft mixer assembly with lifter, dual fuel

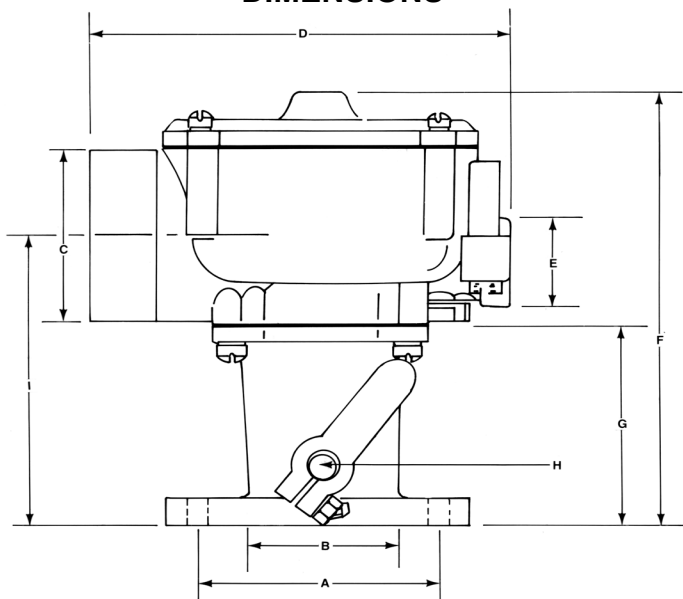
**MODEL 100 SERIES STANDARD CARBURETOR
FOR NATURAL GAS, LP-GAS & DIGESTER GAS****TECHNICAL DESCRIPTION**

The Model 100 Series is a single diaphragm air-gas valve carburetor/mixer. It offers a 90-degree air inlet to provide low overhead clearance, and is available with several Air Horn and throttle body options. This unit is available for LPG, Natural Gas and Digester Gas applications. It has been successfully used for other hydrocarbon-based vapor fuels as low as 500 BTU. The Model 100 is also available for Feedback applications with the 'FB' designation.

The 100 mixer provides a convenient 1/8 NPT balance port and two separate air valve vacuum ports. Additional low speed, idle mixture control can be obtained to lean air-fuel mixtures through the use of optional shims.

TECHNICAL SPECIFICATIONS

Fuel.....	Type Natural Gas, LP-Gas, Digester Gas
Air Flow Capacity.....	93 L/s (197 cfm) @ 2.0 in Hg manifold depression
Horsepower Rating.....	91.7 kW (123 hp) @ 2.0 in Hg manifold depression
Port Size.....	1/2 NPT
Materials	
Body.....	Aluminum
Diaphragm.....	Hydrin or Silicone
Diaphragm.....	Cover Aluminum

DIMENSIONS


				A	B	C	D	E	F	G	H	I
STD. CARB	MIXER	THRTL. BODY	SAE FLANGE	CTR. TO CTR. BOLT SPACING	BORE	MIXER AIR HORN DIA.	OVRL. WIDTH	NPT INLET	OVRL. HEIGHT	THRTL. BODY HEIGHT	THRTL. SHAFT DIA.	FLANGE TO CTR. OF AIR HORN
CA100-6	CA100M-2	AT2-2	1"	60.3 mm (2.375")	30.2 mm (1.188")	47.6 mm (1.875")	131 mm (5.156")	1/2"	117 mm (4.625")	36.5 mm (1.438")	6.4 mm (0.250")	67.0 mm (2.64")
CA100-8	CA100M-3	BT2-3	1-1/4"	68.3 mm (2.688")	36.5 mm (1.438")	52.4 mm (2.063")	131 mm (5.156")	1/2"	150.4 mm (5.92")	69.1 mm (2.719")	8.0 mm (0.313")	99.6 mm (3.92")
CA100-10	CA100M-4	BT2-3	1-1/4"	68.3 mm (2.688")	36.5 mm (1.438")	58.8 mm (2.313")	131 mm (5.156")	1/2"	150.4 mm (5.92")	69.1 mm (2.719")	8.0 mm (0.313")	99.6 mm (3.92")
CA100-12	CA100M-4	BT2-4-1	1-1/2"	74.6 mm (2.938")	42.9 mm (1.688")	58.8 mm (2.313")	131 mm (5.156")	1/2"	150.4 mm (5.92")	69.1 mm (2.719")	8.0 mm (0.313")	99.6 mm (3.92")
CA100-35	CA100M-4-2	BT2-4-1	1-1/2"	74.6 mm (2.938")	42.9 mm (1.688")	58.8 mm (2.313")	131 mm (5.156")	1/2"	150.4 mm (5.92")	69.1 mm (2.719")	8.0 mm (0.313")	99.6 mm (3.92")
CA100-46	CA100M-2	BT2-4-3	1-3/4"	84.1 mm (3.313")	42.9 mm (1.688")	47.6 mm (1.875")	131 mm (5.156")	1/2"	152 mm (6.000")	71.4 mm (2.813")	8.0 mm (0.313")	102 mm (4.01")
CA100-56	CA100M-3	AT2-23	1-1/4"	68.3 mm (2.688")	36.5 mm (1.438")	52.4 mm (2.063")	131 mm (5.156")	1/2"	116.3 mm (4.58")	34.9 mm (1.375")	8.0 mm (0.313")	65.5 mm (2.58")
CA100-60	CA100M-5	BT2-2	1"	60.3 mm (2.375")	30.2 mm (1.188")	41.3 mm (1.625")	131 mm (5.156")	1/2"	117 mm (4.625")	36.5 mm (1.438")	6.4 mm (0.250")	67.0 mm (2.64")
CA100-62	CA100M-2	AT2-2	1"	60.3 mm (2.375")	30.2 mm (1.188")	47.6 mm (1.875")	131 mm (5.156")	1/2"	117 mm (4.625")	36.5 mm (1.438")	6.4 mm (0.250")	67.0 mm (2.64")
CA100-64	CA100M-3P	BT2-23	1-1/4"	68.3 mm (2.688")	36.5 mm (1.438")	52.4 mm (2.063")	131 mm (5.156")	1/2"	116.3 mm (4.58")	34.9 mm (1.375")	8.0 mm (0.313")	65.5 mm (2.58")
CA100-64G	CA100M-3					52.4 mm (2.063")	131 mm (5.156")					
CA100-66	CA100M-4	AT2-4-1	1-1/2"	74.6 mm (2.938")	42.9 mm (1.688")	58.8 mm (2.313")	131 mm (5.156")	1/2"	150.4 mm (5.92")	69.1 mm (2.719")	8.0 mm (0.313")	99.6 mm (3.92")
CA100-010	CA100M-4	BT2-3	1-1/4"	68.3 mm (2.688")	36.5 mm (1.438")	58.8 mm (2.313")	131 mm (5.156")	1/2"	150.4 mm (5.92")	69.1 mm (2.719")	8.0 mm (0.313")	99.6 mm (3.92")



SECTION 1: CARBURETORS & MIXERS CA100 SERIES

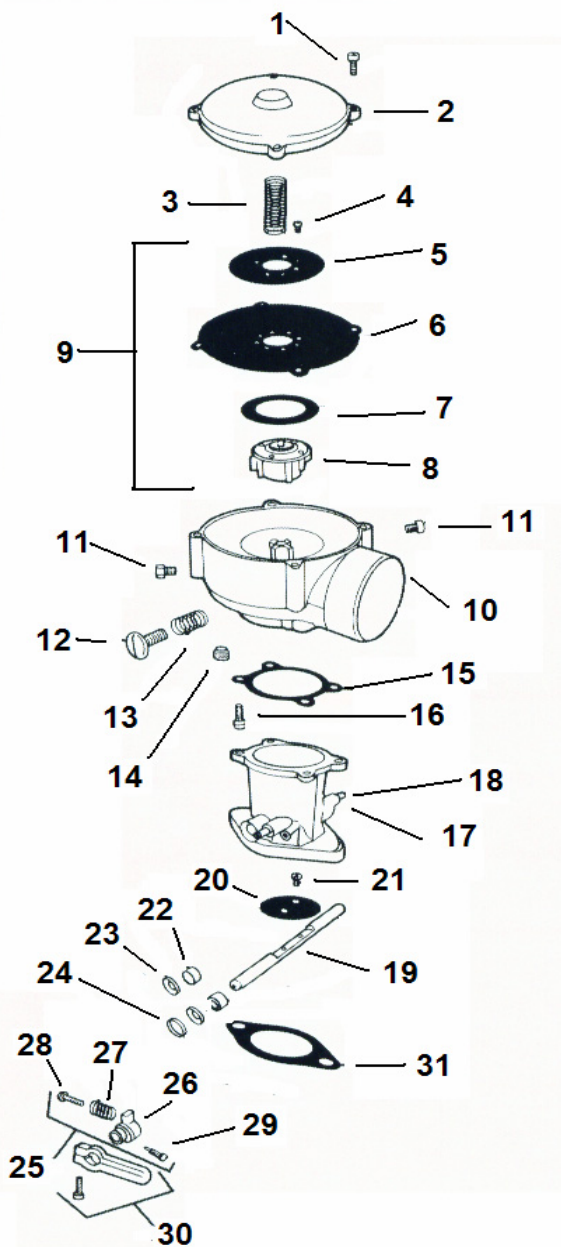
DIMENSIONS (CONTINUED)

				A	B	C	D	E	F	G	H	I
STD. CARB	MIXER	THRITTLE. BODY	SAE FLANGE	CTR.TO CTR. BOLT SPACING	BORE	MIXER AIR HORN DIA.	OVERALL WIDTH	NPT INLET	OVERALL HEIGHT	THRITTLE. BODY HEIGHT	THRITTLE. SHAFT DIA.	FLANGE TO CTR. OF AIR HORN
CA100-78	CA100M-4	AT2-23	1.25"	68.3 mm (2.688")	36.5 mm (1.438")	58.8 mm (2.313")	131 mm (5.156")	1/2"	116.3 mm (4.58")	34.9 mm (1.375")	8.0 mm (0.313")	65.53 mm (2.58")
CA100-90	CA100M-4	BT2-16-4	1.25-1.5"	71.6 mm (2.82")	42.9 mm (1.688")	58.8 mm (2.313")	131 mm (5.156")	1/2"	122.7 mm (4.83")	41.3 mm (1.625")	8.0 mm (0.313")	71.9 mm (2.83")
CA100-104	CA100M-3	BT2-23-9	1.25"	68.3 mm (2.688")	36.5 mm (1.438")	52.4 mm (2.063")	131 mm (5.156")	1/2"	116.3 mm (4.58")	34.9 mm (1.375")	8.0 mm (0.313")	65.53 mm (2.58")
CA100-108	CA100M-3-3	AT2-23-6	1.25"	68.3 mm (2.688")	36.5 mm (1.438")	52.4 mm (2.063")	131 mm (5.156")	1/2"	116.3 mm (4.58")	34.9 mm (1.375")	8.0 mm (0.313")	67.06 mm (2.64")
CA100-110	CA100M-3	BT2-2-401	1"	60.3 mm (2.375")	30.2 mm (1.188")	52.4 mm (2.063")	131 mm (5.156")	1/2"	117 mm (4.625")	36.5 mm (1.438")	6.4 mm (0.250")	67.0 mm (2.64")
CA100-112	CA100M-3	BT2-23-12	1.25"	68.3 mm (2.688")	36.5 mm (1.438")	52.4 mm (2.063")	131 mm (5.156")	1/2"	116.3 mm (4.58")	34.9 mm (1.375")	8.0 mm (0.313")	65.53 mm (2.58")
CA100-124-2	CA100M-4	AT2-2-7	1"	60.3 mm (2.375")	30.2 mm (1.188")	58.8 mm (2.313")	131 mm (5.156")	1/2"	117 mm (4.625")	36.5 mm (1.438")	6.4 mm (0.250")	67.06 mm (2.64")
CA100-134	CA100M-3	BT2-2-134	1"	60.3 mm (2.375")	30.2 mm (1.188")	52.4 mm (2.063")	131 mm (5.156")	1/2"	117 mm (4.625")	36.5 mm (1.438")	6.4 mm (0.250")	67.06 mm (2.64")
CA100-136	CA100M-3	AT2-23-141	1.25"	68.3 mm (2.688")	36.5 mm (1.438")	52.4 mm (2.063")	131 mm (5.156")	1/2"	116.3 mm (4.58")	34.9 mm (1.375")	8.0 mm (0.313")	65.53 mm (2.58")
CA100-138	CA100M-3	BT2-2-138	1"	60.3 mm (2.375")	30.2 mm (1.188")	25.4 mm (2.063")	131 mm (5.156")	1/2"	117 mm (4.625")	36.5 mm (1.438")	6.4 mm (0.250")	67.06 mm (2.64")
CA100-139	CA100M-3	BT2-2-138	1"	60.3 mm (2.375")	30.2 mm (1.188")	25.4 mm (2.063")	131 mm (5.156")	1/2"	117 mm (4.625")	36.5 mm (1.438")	6.4 mm (0.250")	67.06 mm (2.64")
CA100-180	CA100M-3P	AT2-23-849	1.25"	68.3 mm (2.688")	36.5 mm (1.438")	52.4 mm (2.063")	131 mm (5.156")	1/2"	116.3 mm (4.58")	34.9 mm (1.375")	8.0 mm (0.313")	65.53 mm (2.58")
CA100-194	CA100M-3					25.4 mm (2.063")	131 mm (5.156")	1/2"				
CA100-222	CA100M-3					25.4 mm (2.063")	131 mm (5.156")	1/2"				
CA100-224	CA100M-3-22	BT2-3-9	1.25"	68.3 mm (2.688")	36.5 mm (1.438")	52.4 mm (2.063")	131 mm (5.156")	1/2"	150.4 mm (5.92")	69.1 mm (2.719")	8.0 mm (0.313")	71.9 mm (2.83")
CA100-245	CA100M-4	BT2-16-6	1.25-1.5"	71.6 mm (2.82")	42.9 mm (1.688")	58.8 mm (2.313")	131 mm (5.156")	1/2"	122.7 mm (4.83")	41.3 mm (1.625")	8.0 mm (0.313")	71.9 mm (2.83")
CA100-272	CA100M-3	AT2-23-6	1.25"	68.3 mm (2.688")	36.5 mm (1.438")	52.4 mm (2.063")	131 mm (5.156")	1/2"	116.3 mm (4.58")	34.9 mm (1.375")	8.0 mm (0.313")	65.53 mm (2.58")

MODEL CA100 STANDARD CARBURETOR

ITEM #	PART #	DESCRIPTION
1	S1-3	Screw, 10-24 x 5/8" SEMS (4)
2	C1-17	Cover
3	S2-85	Spring, air valve
4	S1-22	Screw, 5-32 x 1/4" SEMS (4)
5	P2-22	Plate, backup
6	D1-17	Diaphragm
	D1-17-2	Diaphragm, silicone
7	R1-19	Ring, air valve
8	BV1-14	Air gas valve ass'y, complete
9	AV1-14	Valve & diaphragm ass'y, complete
10	AB1-8-4	Body ass'y
11	S1-69	Screw, 1/4-28 x 5/16" (2)
12	S1-74	Screw, idle
13	S2-88	Spring, idle screw
14	P3-13	Plug, 1/8 NPT
15	G1-11	Gasket, throttle body to mixer
16	S1-19	Screw, 12-24 x 5/8" SEMS (4)
17	NSS	Throttle Body
18	NSS	Pin, throttle stop (2)
19	S5-1	Throttle shaft, 6.4 mm (0.25") dia.
20	F2-1	Fly, 19.1 mm (0.75")
	F2-2	Fly, 25.4 mm (1.00")
	F2-3	Fly, 31.8 mm (1.25")
	F2-4	Fly, 38.1 mm (1.50")
21	NSS	Screw, 6-32 x 1/4" SEMS (2)
22	B2-11	Bearing Oilite, 6.4 mm (0.25") I.D. (2)
	B2-12	Bearing Oilite, 8.0 mm (0.31") I.D. (2)
	B2-7	Bearing needle, 8.0 mm (0.31") I.D., Opt.
23	S3-8	Seal, 6.4 mm (0.25") shaft (2)
	S3-9	Seal, 8.0 mm (0.31") shaft (2)
	S3-25	Seal, internal, 8.0 mm (0.31") I.D., Opt.
24	R1-9	Ring, seal retainer (2)
25	AL1-8-1	Throttle Stop ass'y, 6.4 mm (0.25") I.D.
	AL1-8-2	Throttle Stop ass'y, 8.0 mm (0.31") I.D.
26	NSS	Throttle Stop lever, 6.4 mm (0.25") I.D.
27	S1-21	Stop screw, 10-32 x 3/4"
28	S2-15	Spring, idle stop screw
29	S1-18	Pin, screw, throttle stop
30	AL1-7-3	Throttle lever, short w/ screw
	AL1-7-1	Throttle lever, long w/ screw
31	G1-16	Gasket, 19.1 mm (0.75") flange
	G1-17	Gasket, 25.4 mm (1.00") flange
	G1-18	Gasket, 31.8 mm (1.25") flange
	G1-19	Gasket, 44.5 mm (1.75") flange
	G1-56	Gasket, 31.8-38.1 mm (1.25-1.50") flange

NSS = Not Serviced Separately.





SECTION 1: CARBURETORS & MIXERS CA100 SERIES

STANDARD & OPTIONAL EQUIPMENT

MIXERS, LP GAS (STANDARD)

PART #	DESCRIPTION
CA100M-1	38.1 mm (1.50") Air Horn
CA100M-2	47.6 mm (1.88") Air Horn
CA100M-2-2	47.6 mm (1.88") Air Horn Silicone
CA100M-3	52.4 mm (2.06") Air Horn
CA100M-3-2	52.4 mm (2.06") Air Horn Silicone
CA100M-3-9	Mixer Assembly
CA100M-4	58.7 mm (2.31") Air Horn
CA100M-4-2	58.7 mm (2.31") Air Horn Silicone
CA100M-4-9	58.7 mm (2.31") Air Horn Special
CA100M-5	41.3 mm (1.63") Air Horn
FB100M-4	58.7 mm (2.31") Air Horn for feedback
CA100M-636	Mixer Ass'y Clark (2802636)
CA100M-647	Mixer Assembly

THROTTLE BODIES (STANDARD)

PART #	DESCRIPTION
AT2-1	3/4" SAE flange, 6.4 mm (0.25") shaft dia.
AT2-1-5	3/4" SAE flange, 6.4 mm (0.25") shaft dia., w/ vacuum advance
AT2-2	1" SAE flange, 6.4 mm (0.25") shaft dia.
AT2-2-5	1" SAE flange, 6.4 mm (0.25") shaft dia., w/ vacuum advance
AT2-3	1-1/4" SAE flange, 8.0 mm (0.31") dia.
AT2-3-8	1-1/4" SAE flange, 8.0 mm (0.31") dia., w/ vacuum advance
AT2-4-1	1-1/2" SAE flange, 8.0 mm (0.31") shaft dia.
AT2-4-3	1-3/4" SAE flange, 8.0 mm (0.31") shaft dia.
AT2-4-4	1-1/2" SAE flange, 8.0 mm (0.31") shaft dia. w/ needle bearings
AT2-16-1	1-1/4" to 1-1/2" SAE flange, 8.0 mm (0.31") shaft dia., no vacuum advance
AT2-16-2	1-1/4" to 1-1/4" SAE flange, 8.0 mm w/S5
AT2-16-3	1-1/4" to 1-1/2" SAE flange, 8.0 mm (0.31") shaft dia., w/ needle bearings & internal seal
AT2-16-4	1-1/4" to 1-1/2" SAE flange, 8.0 mm (0.31") shaft dia., w/ needle bearings
AT2-16-5	Throttle Body Ass'y, Center Bore
AT2-23	1-1/4" SAE flange, 8.0 mm (0.31") shaft dia.
AT2-23-4	1-1/4" SAE flange, 8.0 mm (0.31") shaft dia., w/ needle bearing & internal seal
AT2-23-8	1-1/4" SAE flange, 8.0 mm (0.31") shaft dia., w/ vacuum advance
BT2-16-183	Throttle Body, sub-assembly

· The above throttle bodies are offset.

AIR GAS VALVES

PART #	DESCRIPTION
AV1-14	Standard, w/ Hydrin diaphragm, LPG
AV1-14-12	Air Valve Ass'y
AV1-14-12-2	Air Valve ass'y, Silicone
AV1-14-2	Lean, w/ Hydrin diaphragm, LPG
AV1-14-3	Standard, w/ silicone diaphragm, LPG
AV1-14-4	Lean, w/ silicone diaphragm, LPG
AV1-14-220-2	W/ silicone diaphragm, for non-feedback
AV1-1447	For standard feedback, w/ Hydrin diaphragm
AV1-1447-2	For standard feedback, w/ silicone diaphragm
AV1-14-2-838	Air Gas Valve, 30/35 Clark
AV1-1447-278	Air Valve Flow 60 to 64 Kohler
AV1-14-76-2	Air Valve With Silicone 61/68
AV1-14-9-2	Air Valve Ass'y, w/2 Check Valve
CV1-14	Air Gas Valve Ass'y, CA100
CV1-14-2	Special lean, w/ silicone diaphragm
EV1-14-2	w/ 42 valve & silicone diaphragm
AV1-25413	Valve Assembly, Gas Air

THROTTLE BODIES (CONTINUED)

PART #	DESCRIPTION
AT2-23-5	Throttle Body 1 - 1/4 w/S5-11
AT2-23-6	Throttle Body 1 - 1/4 w/T1-17
AT2-23-6	T/B w/T2-23 Tapped (LP Gas)

CLAMP

PART #	DESCRIPTION
AC2-29	Clamp Ass'y, CA125-76

GOVERNOR

PART #	DESCRIPTION
AT2-46G	Governor Ass'y.
AT2-60-G-1	Governor Ass'y, Hyster 2V
AD1-85	Diaphragm Ass'y, Throttle, governor



SECTION 1: CARBURETORS & MIXERS CA 100 SERIES

STANDARD & OPTIONAL EQUIPMENT

RING SPACER

PART #	DESCRIPTION
R1-29	Ring, air valve spacer, AV1-14 (to lean idle mixtures)

THROTTLE SHAFTS

PART #	DESCRIPTION
S5-1	6.4 mm (0.25") dia., 114 mm (4.50") long (stud. on AT2-1, AT2-2)
S5-2	8.0 mm (0.31") dia., 127 mm (5.00") long (std. on AT2-3, AT2-4-1, AT2-4-3, AT2-16-1, AT2-23)
S5-6	6.4 mm (0.25") dia., 121 mm (4.75") long
S5-7	8.0 mm (0.31") dia., 133 mm (5.25") long
S5-11	8.0 mm (0.31") dia., 156 mm (6.13") long

ADAPTERS

PART #	DESCRIPTION
AA3-18	100M to throttle body, offset 31.8 mm (1.25")
AA3-29-1	100M to 2-1/16" hose
AA3-29-2	100M to 2-1/16" hose, tapped 12-24
A3-31	100M to 2-1/4" hose
AA3-32-1	100M to IMPCO 2B throttle body
AA3-43	100M to Toyota lift truck throttle body
AA3-49	100M to Datsun C5-P5 Nikki throttle body
AA3-50	100M to Datsun C3-P3 throttle body
AA3-58	100M to throttle body, offset 11.1 mm (0.44")
A3-60	100M to Toyota Model 30A & 30B throttle body
A3-94	Datsun 4-bolt to 1" SAE flange
A3-29-1	Adapter CA100M /CA125 to 2 -1/16
A3-29-2	Adapter CA100M /CA125 to 2 -1/16
A3-29-3	Adapter CA100M /CA125 to 2 -1/16
A3-29-3	Adapter CA100M /CA125 to 2 -1/16

SPACERS (OPTIONAL)

PART #	DESCRIPTION
AS3-10	Ass'y, 12.7 mm (0.50") to turn Air Horn 90 degrees
AS3-43	Ass'y, 4.8 mm (0.19") to turn Air Horn 90 degrees

LEVERS

PART #	DESCRIPTION
AL1-7-1	Ass'y 44.5 mm (1.75") long (std. on AT2-3, AT2-4-1, AT2-4-3, AT2-16-1)
AL1-7-2	Ass'y w/ 6.4 mm (0.25") ball stud, 44.5 mm (1.75") long
AL1-7-3	Ass'y, 33.3 mm (1.31") long (std. on AT2-1, AT-2, AT2-23)
AL1-7-4	Ass'y, w/ swivel, 44.5 mm (1.75") long
AL1-7-5	Ass'y, w/ Wisconsin swivel, 6.4 mm (0.25") mounting I.D., 20.6 mm (0.81") long
AL1-8-2	Stop ass'y, 8.0 mm (0.31") mounting I.D., 19.1 mm (0.75") long
AL1-8-3	Stop ass'y, 8.0 mm (0.31") mounting I.D., cutdown, 9.5 mm (0.38") long
AL1-8-4	Stop ass'y, 6.4 mm (0.25") mounting I.D., cutdown, 9.5 mm (0.38") long
AL1-25-1	Ass'y, spring loaded, floating, 6.4 mm (0.25") mounting I.D., 34.9 mm (1.38") long w/ AC2-14-1
AL1-25-2	Ass'y, spring loaded, floating, 8.0 mm (0.31") mounting I.D., 34.9 mm (1.38") long w/ AC2-14-2
AL1-26-1	Ass'y, floating 6.4 mm (0.25") mounting I.D., 54.0 mm (2.13") long, w/ AC2-11
AL1-26-2	Ass'y, floating, w/ swivel 6.4 mm (0.25") mounting I.D., 54.0 mm (2.13") long, w/ AC2-11
AL1-27-1	Ass'y, floating 8.0 mm (0.31") mounting I.D., 54.0 mm (2.13") long, w/ AC2-12
AL1-27-2	Ass'y, floating w/ swivel, 8.0 mm (0.31") mounting I.D., 54.0 mm (2.13") long, w/ AC2-12
AL1-31	Ass'y shaft clamp, 6.4 mm (0.25") mounting I.D., 49.2 mm (1.94") long
AL1-33	Ass'y shaft clamp, 8.0 mm (0.31") mounting I.D., 49.2 mm (1.94") long
AL1-46	Ass'y steel shaft clamp, 8.0 mm (0.31") mounting I.D., 47.6 mm (1.88") long

RETURN SPRINGS (OPTIONAL)

PART #	DESCRIPTION
AS2-50-1	Throttle return, 6.4 mm (0.25") shaft
AS2-50-2	Throttle return, 8.0 mm (0.31") shaft

BRACKET ASSEMBLIES (OPTIONAL)

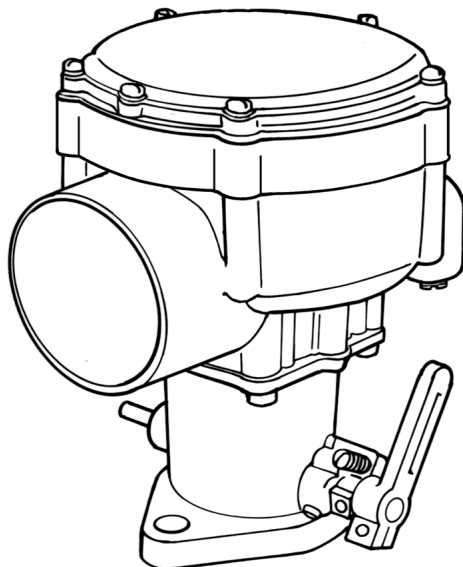
PART #	DESCRIPTION
AB4-2	Boden wire
AB4-19	AS2-50-2 throttle return spring



CARBURETOR DESCRIPTION

CA100 SERIES

ITEM #	DESCRIPTION
CA100-8	1-1/4" SAE flange, 2-1/16" Air Horn
CA100-10	1-1/4" SAE flange, 2-5/16" Air Horn, lean flow
CA100-12	1-1/2" SAE flange, 2-5/16" Air Horn
CA100-102	Carburetor, Ford, Yale
CA100-104	Carburetor, 1-1/4" SAE flange, 2-1/16" Air Horn
CA100-108	1-1/4" SAE flange (short), 2-1/16" Air Horn, lean flow, low profile
CA100-110	1" SAE flange, 2-1/16" Air Horn, drilled shaft, AL1-26-401
CA100-112	1-1/4" SAE flange, 2-1/16" Air Horn, lean flow, short shaft
CA100-124-2	Carb. 1" x 2-1/16" Air Horn AT2-2
CA100-134	1" SAE flange, 2-1/16" Air Horn, lean flow
CA100-136	1-1/4" SAE flange, 2-1/16" Air Horn
CA100-138	1" SAE flange, 1-1/16" Air Horn, Yale
CA100-139	1" SAE flange, 2-1/16" Air Horn w/ bracket & swivel
CA100-46	1-3/4" SAE flange, 2-5/16" Air Horn
CA100-498	Carb. Ass'y NAACO (1389498)
CA100-56	1-1/4" SAE flange, 2-1/16" Air Horn, Kalmar A-C
CA100-6	Carb. 1" x 1 7/8"
CA100-60	1" SAE flange, 1-5/8" Air Horn, lean flow
CA100-62	1" SAE flange, 1-7/8" Air Horn, lean flow
CA100-621	Carb. 2-5/16 Air Horn, Mazda 2.2L, Yale
CA100-64	1-1/4" SAE flange (short), 2-1/16" Air Horn
CA100-64G	2-1/6" Air Horn, 70/75 flow, no throttle ass'y.
CA100-66	1-1/2" SAE flange, 2-5/16" Air Horn, 72/80 flow
CA100-78	1-1/4" SAE flange, 2-5/16" Air Horn, 72/80 flow, low profile
CA100-90	1-1/4" SAE flange, 2-5/16" Air Horn, lean flow, long shaft
CA100-70	Carburetor
CA100-7108	Carburetor Ass'y (2817108)
CA100-91A	Carburetor Ass'y
CA100-180	1-1/4" SAE flange, 2-1/16" Air Horn w/ L1-33, Clark
CA100-183	Carburetor Ass'y
CA100-194	AA3-67 adapter, 2-1/16" Air Horn, Clark
CA100-222	2-1/6" Air Horn, A3-67 adapter, Mitsubishi
CA100-222-1	Carburetor Ass'y
CA100-224	1-1/4" SAE flange, 2-1/16" Air Horn, AV1-14-220 air gas valve assembly
CA100-245	1-1/4" SAE flange, 2-5/16" Air Horn, long shaft, NB & IS, 72/80 flow
CA100-272	1-1/4" SAE flange, 2-1/16" Air Horn, 100% flow, low caterpillar
CA100-334	Carb. 4.3L LPG, 2-1/16 Air Horn
CA100-35	1-1/2" SAE flange, 2-5/16" Air Horn, AL1-7-1 lever, silicone dia.
FB100M-4	2-5/16" Air Horn, feedback
CA100-010	Carburetor Ass'y, Less 7610010

MODEL CA110 STANDARD CARBURETOR**TECHNICAL DESCRIPTION**

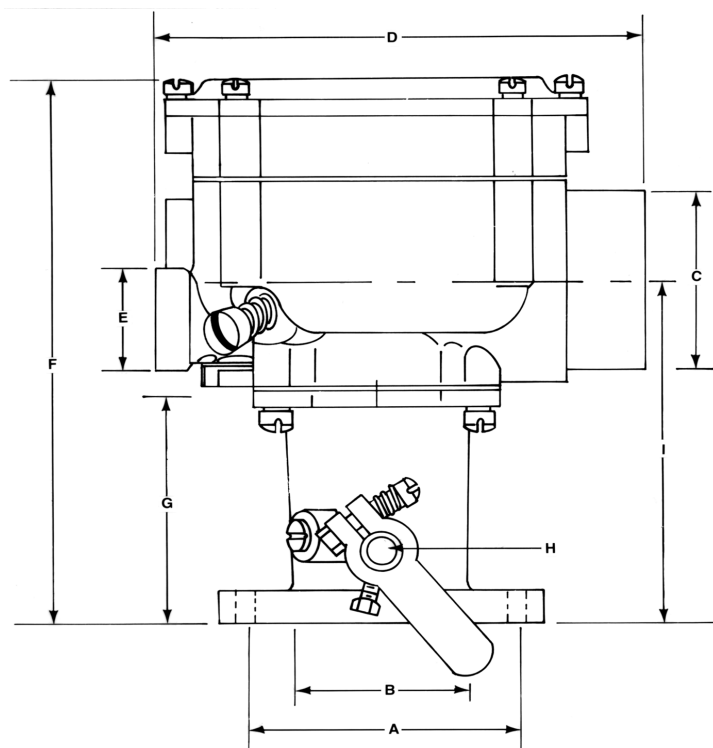
The 110 Series carburetor / mixer is designed primarily for one and two cylinder engines where severe intake manifold pressure pulsations are present. However, its use is not limited to these applications. Improved mixture control and air-gas valve durability can also benefit other applications in intake systems where pressure pulsations could adversely affect a standard 100/125 Series assembly.

The IMPCO Model 110 can be used with methane and propane based fuels. All mixers and complete carburetors use a standard air-gas metering valve that provides adequate fuel mixture range with the appropriate positive (natural gas) or negative (propane) vaporizer / regulator. It is possible to use other air-gas metering valves and body assemblies from the 100/125 Series and may have to be ordered as a separate component part.

TECHNICAL SPECIFICATIONS

Fuel Type.....	Natural Gas, LP-Gas, Digester Gas
Port Size	1/2 NPT
Materials	
Body.....	Aluminum
Diaphragm.....	Hydrin or Silicone
Diaphragm Cover.....	Aluminum

DIMENSIONS

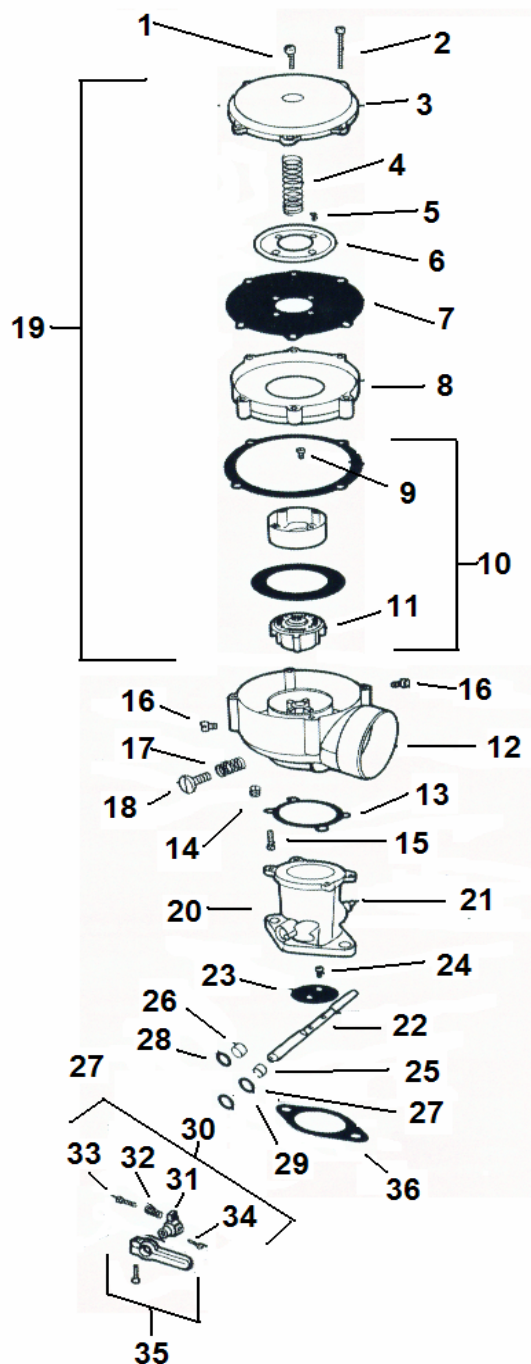


				A	B	C	D	E	F	G	H	I
STD. CARB.	MIXER	THRTL. BODY	SAE FLANGE	CTR. TO CTR. BOLT SPACING	BORE	MIXER AIR HORN DIA.	OVERALL WIDTH	NPT INLET FITTING	OVERALL HEIGHT	THRTL. BODY HEIGHT	THRTL. SHAFT DIA.	FLANGE TO CTR. OF AIR HORN
110-12	110M-4	AT2-4-1	1-1/2"	74.6 mm (2.938")	42.9 mm (1.688")	58.7 mm (2.313")	131 mm (5.156")	1/2"	159 mm (6.281")	69.1 mm (2.719")	7.9 mm (0.313")	99.6 mm (3.92")
110-12-2	110M-4	AT2-4-1	1-1/2"	74.6 mm (2.938")	42.9 mm (1.688")	58.7 mm (2.313")	131 mm (5.156")	1/2"	159 mm (6.281")	69.1 mm (2.719")	7.9 mm (0.313")	99.6 mm (3.92")
110-66-2	110M-4	AT2-4-1	1-1/2"	74.6 mm (2.938")	42.9 mm (1.688")	58.7 mm (2.313")	131 mm (5.156")	1/2"	159 mm (6.281")	69.1 mm (2.719")	7.9 mm (0.313")	99.6 mm (3.92")

MODEL CA110 STANDARD CARBURETOR

ITEM #	PART #	DESCRIPTION
1	S1-3	Screw, 10-24 x 5/8" SEMS (2)
2	S1-41	Screw, 10-24 x 1-3/8" SEMS (4)
3	NSS	Cover
4	S2-13	Spring, air valve
5	S1-12	Screw, 8-32 x 5/16" SEMS (4)
6	P2-15	Plate, backup
7	D1-13	Diaphragm
	D1-13-2	Diaphragm, silicone
8	P2-14	Plate, divider
9	G1-13	Gasket, plate to body
10	AS3-22	Spacer ass'y.
	S3-22	Spacer only
11	BV1-14	Air gas valve ass'y, complete
12	AB1-8-4	Body ass'y.
13	G1-11	Gasket, throttle body to mixer
14	NSS	Plug, 1/8 NPT
15	S1-19	Screw, 12-24 x 5/8" SEMS (4)
16	S1-69	Screw, 1/4 -28 x 5/16" (2)
17	S2-88	Spring, idle screw
18	S1-74	Screw, idle
19	A110-DP	Dashpot ass'y
	A110-DP-2	Dashpot ass'y, Silicone
20	NSS	Throat, 3/4" SAE flange
21	NSS	Pin, throttle stop (2)
22	S5-1	Throttle shaft, 6.4 mm (0.25") dia.
	S5-2	Throttle shaft, 8.0 mm (0.31") dia.
23	F2-1	Fly, 19.1 mm (0.75")
	F2-2	Fly, 25.4 mm (1.00")
	F2-4	Fly, 38.1 mm (1.50")
	F2-5	Fly, 44.5 mm (1.75")
24	S1-22	Screw, 6-32 x 1/4" SEMS (2)
	S1-12	Screw, 8-32 x 5/16" SEMS (2)
25	B2-11	Bearing Oilite, 6.4 mm (0.25") I.D.
26	NSS	Bearing needle, 6.4 mm (0.25")
27	S3-8	Seal, 6.4 mm (0.25") shaft (2)
	S3-9	Seal, 8.0 mm (0.31") shaft (2)
28	S3-25	Seal, internal, 8.0 mm (0.31") I.D.,
29	R1-9	Ring, seal retainer (2)
30	AL1-8-1	Throttle stop ass'y, 6.4 mm (0.25") I.D.
	AL1-8-2	Throttle stop ass'y, 8.0 mm (0.31") I.D.
31	NSS	Throttle stop lever
32	S2-15	Spring, idle stop screw
33	S1-21	Stop screw, 10-32 x 3/4
34	S1-18	Pin, screw, throttle stop
35	AL1-7-3	Throttle lever, short w/ screw
	AL1-7-1	Throttle lever, long w/ screw
36	G1-16	Gasket, 19.1 mm (0.75") flange
	G1-17	Gasket, 25.4 mm (1.00") flange
	G1-18	Gasket, 31.8 mm (1.25") flange
	G1-19	Gasket, 38.1 mm (1.50") flange
	G1-23	Gasket, 44.5 mm (1.75") flange
	G1-56	Gasket, 31.8-38.1 mm (1.25-1.50") flange

NSS = Not Serviced Separately



STANDARD & OPTIONAL EQUIPMENT
MIXERS, LP GAS (STANDARD)

PART #	DESCRIPTION
110M-4	58.7 mm (2.31") Air Horn
110M-4-2	58.7 mm (2.31") Air Horn

LEVERS

PART #	DESCRIPTION
AL1-7-1	Ass'y, 44.5 mm (1.75") long
AL1-7-2	Ass'y, w/ 6.4 mm (0.25") ball stud, 44.5 mm (1.75") long
AL1-7-3	Ass'y, 33.3 mm (1.31") long (std. on AT2-1, AT2 2, AT2-23)
AL1-7-4	Ass'y, w/ swivel, 44.5 mm (1.75") long
AL1-7-5	Ass'y, w/ Wisconsin swivel, 6.4 mm (0.25") mounting I.D., 20.6 mm (0.81") long
AL1-8-1	Stop ass'y, 6.4 mm (0.25") mounting I.D., cutdown, 19.1 mm (0.75") long (std. on AT2-1, AT2-2)
AL1-8-2	Stop ass'y, 8.0 mm (0.31") mounting I.D., 19.1 mm (0.75") long
AL1-8-3	Stop ass'y, 8.0 mm (0.31") mounting I.D., cutdown, 9.5 mm (0.38")
AL1-8-4	Stop ass'y, 6.4 mm (0.25") mounting I.D., cutdown, 9.5 mm (0.38") long
AL1-25-1	Ass'y, spring loaded, floating, 6.4 mm (0.25") mounting I.D., 34.9 mm (1.38") long, w/ AC2-14-1
AL1-25-2	Ass'y, spring loaded, floating, 8.0 mm (0.31") mounting I.D., 34.9 mm (1.38") long, w/ AC2-14-2
AL1-26-1	Ass'y, floating, 6.4 mm (0.25") mounting I.D., 54.0 mm (2.13") long, w/ AC2-11
AL1-26-2	Ass'y, floating, w/ swivel, 6.4 mm (0.25") mounting I.D., 54.0 mm (2.13") long, w/ AC2-11
AL1-27-1	Ass'y, floating, 8.0 mm (0.31") mounting I.D., 54.0 mm (2.13") long, w/ AC2-12
AL1-27-2	Ass'y, floating, w/ swivel, 8.0 mm (0.31") mounting I.D., 54.0 mm (2.13") long, w/ AC2-12
AL1-31	Ass'y, shaft clamp, 6.4 mm (0.25") mounting I.D., 49.2 mm (1.94") long
AL1-33	Ass'y, shaft clamp, 8.0 mm (0.31") mounting I.D., 49.2 mm (1.94") long
A1-46	Ass'y, steel shaft clamp, 8.0 mm (0.31") mounting I.D., 47.6 mm (1.88") long
AL1-27-2	Ass'y, floating, w/ swivel, 8.0 mm (0.31") mounting I.D., 54.0 mm (2.13") long, w/ AC2-12

NOTE: AL1-7-1 through AL1-7-4 levers used w/ AL1-8 lever stop.

See lever section of catalog for other optional levers.

THROTTLE SHAFTS

PART #	DESCRIPTION
S5-1	6.4 mm (0.25") dia., 114 mm (4.50") long
S5-2	8.0 mm (0.31") dia., 127 mm (5.00") long
S5-6	6.4 mm (0.25") dia., 121 mm (4.75") long
S5-7	8.0 mm (0.31") dia., 133 mm (5.25") long
S5-11	8.0 mm (0.31") dia., 156 mm (6.13") long

THROTTLE BODIES (STANDARD)

PART #	DESCRIPTION
AT2-1	3/4" SAE flange, 6.4 mm (0.25") shaft dia.
AT2-2	1" SAE flange, 6.4 mm (0.25") shaft dia.
AT2-2-5	1" SAE flange, 6.4 mm (0.25") shaft dia., w/ vacuum advance
AT2-3	1-1/4" SAE flange, 8.0 mm (0.31") dia.
AT2-3-8	1-1/4" SAE flange, 8.0 mm (0.31") dia., w/ vacuum advance
AT2-4-1	1-1/2" SAE flange, 8.0 mm (0.31") shaft dia.
AT2-4-3	1-3/4" SAE flange, 8.0 mm (0.31") shaft dia.
AT2-4-4	1-3/4" SAE flange, 8.0 mm (0.31") shaft dia., w/ needle bearings
AT2-16-1	1-1/4" to 1-1/2" SAE flange, 8.0 mm (0.31") shaft dia.
AT2-16-3	1-1/4" to 1-1/2" flange, 8.0 mm (0.31") shaft dia., w/ needle bearings & internal seal
AT2-16-4	1-1/4" to 1-1/2" SAE flange, 8.0 mm (0.31") shaft dia., w/ needle bearings
AT2-23	1-1/4" SAE flange, 8.0 mm (0.31") shaft dia.
AT2-23-4	1-1/4" to 1-1/2" SAE flange, 8.0 mm (0.31") shaft dia., w/ needle bearings & internal seal
AT2-23-8	1-1/4" SAE flange, 8.0 mm (0.31") shaft dia., w/ vacuum advance
BT2-16-183	Throttle Body, sub-assembly

NOTE: AT2-16's have vacuum port.



**SECTION 1: CARBURETORS & MIXERS
CA110 SERIES**

MODEL CA110 STANDARD CARBURETOR

RETURN SPRINGS ASSEMBLIES

PART #	DESCRIPTION
AS2-50-1	Throttle return, 6.4 mm (0.25") shaft
AS2-50-2	Throttle return, 8.0 mm (0.31") shaft

BRACKET ASSEMBLIES (OPTIONAL)

PART #	DESCRIPTION
AB4-2	Boden wire

SPACERS (OPTIONAL)

PART #	DESCRIPTION
AS3-10	Ass'y, 12.7 mm (0.50"), to turn Air Horn 90°
AS3-22	16.7 mm (0.66"), air valve
AS-43	Ass'y, 4.8 mm (0.19"), to turn Air Horn 90°

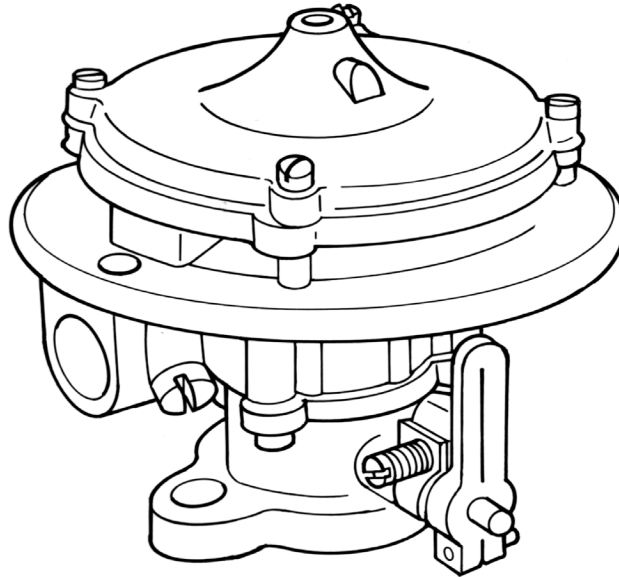
DASHPOT ASSEMBLIES (STANDARD)

PART #	DESCRIPTION
A110-DP	Model 110 Mixer (also repair kit)
A110-DP-2	Model 110 Mixer, w/ silicone diaphragm (also repair kit)

**CA100 SERIES
CARBURETORS/MIXERS**

PART #	DESCRIPTION
110-12	Mixer, 1-1/2" SAE flange, 2-5/16" Air Horn, Oilite bearings
110-12-2	Mixer, 1-1/2" SAE flange, 2-5/16" Air Horn, Oilite bearings w/ Silicone
110-164	Mixer, 1-1/4 x 2-5/16 w/ AS2-50-2
110-66-2	Mixer, 1-1/2" SAE flange, 2-5/16" Air Horn, lever mounted on
110M-4-2	Mixer, 2-5/16" Air Horn, silicone diaphragm
A110-DP	Dash Pot Assembly, Model 110 mixer with Hydrin diaphragm
A110-DP-2	Dash Pot Assembly, Model 110 mixer with silicone diaphragm

MODEL CA125 STANDARD CARBURETOR



TECHNICAL DESCRIPTION

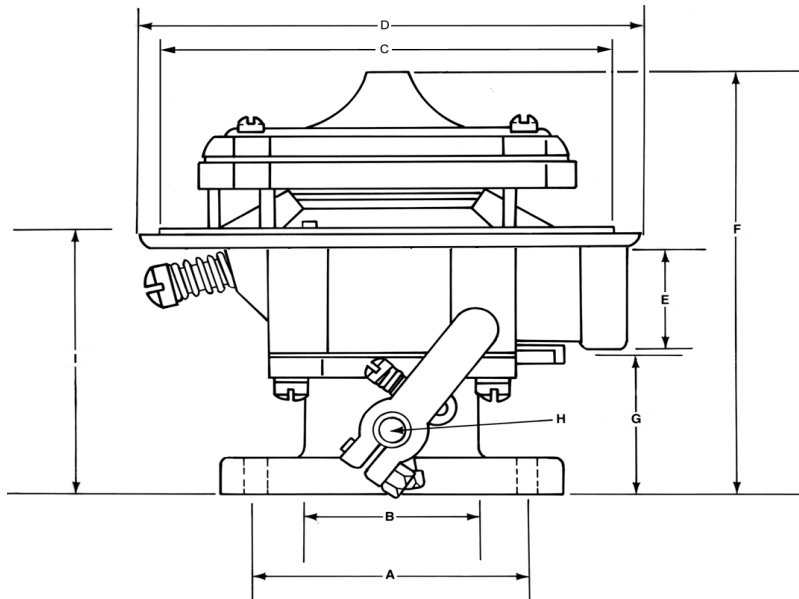
The Model 125 carburetor is a single-diaphragm air valve carburetor / mixer. It offers a down draft air inlet that can be used for remote air filtration or open-element type air filters. This unit is available for LPG, Natural Gas, and Digester Gas applications. It has been successfully used for other hydrocarbon-based vapor fuels as low as 500 BTU.

The Model 125 is also available for feedback applications with the 'FB' designation. These FB mixers are available in tamper resistant configuration, indicated by the suffix "-TR" on the part number.

Two separate air valve vacuum supplies are available with this mixer. Additional low speed mixture control can be obtained to lean air-fuel mixtures with optional shims. Check the Accessories Section for more information. All 125DG series mixers reduce airflow by 30%.

TECHNICAL SPECIFICATIONS

Fuel Type.....	Natural Gas, LP-Gas, Digester Gas
Air Flow Capacity.....	235 cfm @ 2.0 in Hg manifold depression
Horsepower Rating.....	146 hp @ 2.0 in Hg manifold depression
Port Size.....	1/2 NPT
Materials	
Body.....	Aluminum
Diaphragm.....	Hydrin or Silicone
Diaphragm Cover	Aluminum

DIMENSIONS


				A	B	C	D	E	F	G	H	I
STD. CARB	MIXER	THRTL. BODY	SAE FLANGE	CTR. TO CTR. BOLT SPACING	BORE	MIXER AIR HORN DIA	OVRL. WIDTH	NPT INLET	OVERALL HEIGHT	THRTL. BODY HEIGHT	THRTL. SHAFT DIA.	FLANGE TO CTR. OF AIR HORN
CA125-094	CA125M	AT2-16-1	1.25" X 1.50"	71.4 mm (2.813")	42.9 mm (1.688")	130 mm (5.125")	140 mm (5.500")	1/2"	141 mm (5.563")	41.3 mm (1.625")	7.9 mm (0.313")	79.4 mm (3.125")
CA125-6	CA125M	AT2-16-1	1.25" X 1.50"	71.4 mm (2.813")	42.9 mm (1.688")	130 mm (5.125")	140 mm (5.500")	1/2"	141 mm (5.563")	41.3 mm (1.625")	7.9 mm (0.313")	79.4 mm (3.125")
CA125-8	CA125M	BT2-16-1	1.25" X 1.50"	71.4 mm (2.813")	42.9 mm (1.688")	130 mm (5.125")	140 mm (5.500")	1/2"	141 mm (5.563")	41.3 mm (1.625")	7.9 mm (0.313")	79.4 mm (3.125")
CA125-14	CA125M	AT2-16-1	1.25" X 1.50"	71.4 mm (2.813")	42.9 mm (1.688")	130 mm (5.125")	140 mm (5.500")	1/2"	141 mm (5.563")	41.3 mm (1.625")	7.9 mm (0.313")	79.4 mm (3.125")
CA125-20	CA125M	AT2-16-1	1.25" X 1.50"	71.4 mm (2.813")	42.9 mm (1.688")	130 mm (5.125")	140 mm (5.500")	1/2"	141 mm (5.563")	41.3 mm (1.625")	7.9 mm (0.313")	79.4 mm (3.125")
CA125-26	CA125M	AT2-16-1	1.25" X 1.50"	71.4 mm (2.813")	42.9 mm (1.688")	130 mm (5.125")	140 mm (5.500")	1/2"	141 mm (5.563")	41.3 mm (1.625")	7.9 mm (0.313")	79.4 mm (3.125")
CA125-38	CA125M-5	AT2-23-5	1.25"	68.3 mm (2.688")	36.5 mm (1.438")	130 mm (5.125")	140 mm (5.500")	1/2"	119 mm (4.688")	34.9 mm (1.375")	7.9 mm (0.313")	70.6 mm (2.781")
CA125-44	CA125M-3	BT2-3-3	1.25"	68.3 mm (2.688")	36.5 mm (1.438")	130 mm (5.125")	140 mm (5.500")	1/2"	154.1 mm (4.688")	69.1 mm (2.719")	7.9 mm (0.313")	106.9 mm (4.20")
CA125-52	CA125M	AT2-16-1	1.25" X 1.50"	71.4 mm (2.813")	42.9 mm (1.688")	130 mm (5.125")	140 mm (5.500")	1/2"	141 mm (5.563")	41.3 mm (1.625")	7.9 mm (0.313")	79.4 mm (3.125")
CA125-75	CA125M	AT2-23-8	1.25"	68.3 mm (2.688")	36.5 mm (1.438")	130 mm (5.125")	140 mm (5.500")	1/2"	119 mm (4.688")	34.9 mm (1.375")	7.9 mm (0.313")	70.6 mm (2.781")



SECTION 1: CARBURETORS & MIXERS
CA125 SERIES

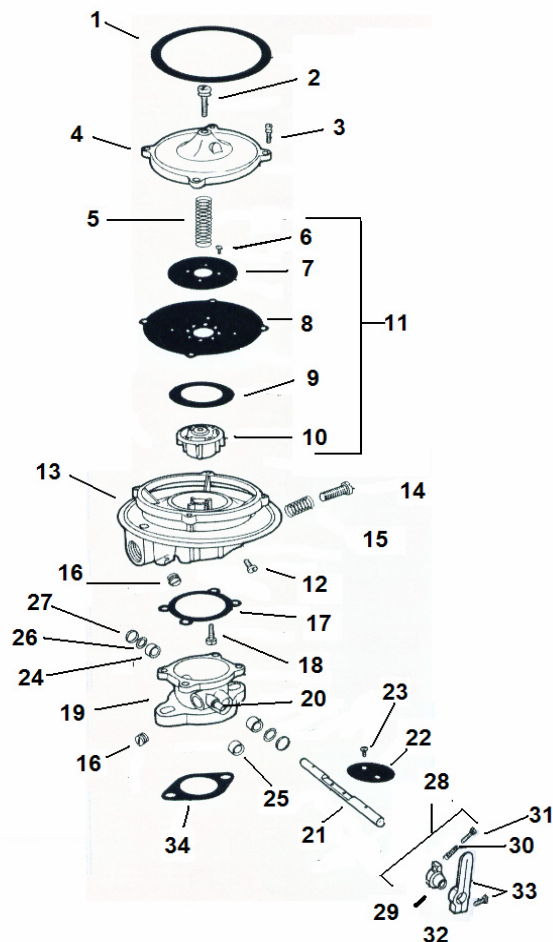
CA125 SERIES DIMENSIONS (CONTINUED)

STD. CARB	MIXER	THROTTLE BODY	SAE FLANGE	A CTR.TO CTR. BOLT SPACING	B BORE	C MIXER AIR HORN DIA.	D OVERALL WIDTH	E NPT FUEL INLET	F OVERALL HEIGHT	G THRTL. BODY HEIGHT	H THRTL. SHAFT DIA.	I FLANGE TO TOP OF MIXER
CA125-76-2	CA125M	AT2-23-8	1.25"	68.3 mm (2.688")	36.5 mm (1.438")	130 mm (5.125")	140 mm (5.500")	1/2"	119 mm (4.688")	34.9 mm (1.375")	7.9 mm (0.313")	70.6 mm (2.781")
CA125-80-2	CA125M	BT2-23-13	1.25"	68.3 mm (2.688")	36.5 mm (1.438")	130 mm (5.125")	140 mm (5.500")	1/2"	119 mm (4.688")	34.9 mm (1.375")	7.9 mm (0.313")	70.6 mm (2.781")
CA125-100-2	CA125M-3-2	BT2-16-100	1.25" x 1.50"	71.4 mm (2.813")	42.9 mm (1.688")	130 mm (5.125")	140 mm (5.500")	1/2"	141 mm (5.563")	41.3 mm (1.625")	7.9 mm (0.313")	79.4 mm (3.125")
CA125-108	CA125M-3	BT2-3-3	1.25"	68.3 mm (2.688")	36.5 mm (1.438")	130 mm (5.125")	140 mm (5.500")	1/2"	154.1 mm (6.667")	69.1 mm (2.719")	7.9 mm (0.313")	106.9 mm (4.209")
CA125-134	CA125M-29-2F	AT2-60G-1										
CA125-141	CA125M-3	AT2-2-7	1"	60.3 mm (2.375")	30.2 mm (1.188")	130 mm (5.125")	140 mm (5.500")	1/2"	121 mm (4.750")	36.5 mm (1.438")	6.4 mm (0.250")	72.2 mm (2.844")

MODEL CA125 STANDARD CARBURETOR

ITEM #	PART #	DESCRIPTION
1	G1-66	Gasket, mixer to Air Horn
2	S1-47	Screw, 1/4-20 x 1" SEMS
3	S1-3	Screw, 10-24 x 5/8" SEMS (4)
4	C1-26	Cover, air valve
5	S2-85	Spring, air valve
6	S1-22	Screw, 5-32 x 1/4" SEMS (4)
7	P2-22	Plate, backup
8	D1-17	Diaphragm
	D1-17-2	Diaphragm, silicone
9	R1-19	Ring, air valve
10	BV1-14	Air gas valve ass'y, complete
11	AV1-14	Valve & diaphragm ass'y, complete
12	S1-69	Screw, 1/4-28 x 5/16" (3)
13	NSS	Body ass'y
14	NSS	Screw, idle
15	S2-16	Screw, idle screw
16	NSS	Plug, 1/8 NPT
17	G1-11	Gasket, throttle body to mixer
18	S1-19	Screw, 12-24 x 5/8" SEMS (4)
19	NSS	(Refer to chart for correct AT2-assembly)
20	NSS	Pin, throttle stop (2)
21	S5-1	Throttle shaft, 6.4 mm (0.25") dia.
	S5-2	Throttle shaft, 8.0 mm (0.31") dia.
22	F2-1	Fly, 19.1 mm (0.75")
	F2-2	Fly, 25.4 mm (1.00")
	F2-4	Fly, 38.1 mm (1.50")
	F2-5	Fly, 44.5 mm (1.75")
23	NSS	Screw, 6-32 x 1/4" SEMS (2)
	S1-12	Screw, 8-32 x 5/16" SEMS (2)
24	B2-11	Bearing Oilite, 6.4 mm (0.25") I.D. (2)
25	NSS	Bearing needle, 6.4 mm (0.25") I.D.,
26	S3-8	Seal, 6.4 mm (0.25") shaft (2)
	S3-9	Seal, 8.0 mm (0.31") shaft (2)
	S3-25	Seal, internal, 8.0 mm (0.31") I.D., opt. (2)
27	R1-9	Ring, seal retainer (2)
28	AL1-8-2	Throttle stop ass'y 8.0 mm (0.31") I.D.
29	NSS	Throttle stop lever
30	S2-15	Spring, idle stop screw
31	S1-21	Stop screw, 10-32 x 3/4"
32	S1-18	Pin, screw, throttle stop
33	AL1-7-3	Throttle lever, short, w/ screw
	AL1-7-1	Throttle lever, long, w/ screw
34	G1-16	Gasket, 19.1 mm (0.75") flange
	G1-17	Gasket, 25.4 mm (1.00") flange
	G1-18	Gasket, 31.8 mm (1.25") flange
	G1-19	Gasket, 38.1 mm (1.50") flange
	G1-23	Gasket, 44.5 mm (1.75") flange
	G1-56	Gasket, 31.8 - 38.1 mm (1.25 - 1.50") flange

NSS = Not Serviced Separately





SECTION 1: CARBURETORS & MIXERS CA125 SERIES

STANDARD & OPTIONAL EQUIPMENT

MIXERS, LP GAS (STANDARD)

PART #	DESCRIPTION
CA125M	Mixer
CA125M-089	Mixer Assembly (8509089)
CA125M-10	Mixer, complete vac. Lifter 100% Flow
CA125M-10-2	Mixer, complete vac. Lifter 100% Flow, Silicone
CA125M-2	W/ silicone diaphragm
CA125M-292	Mixer, Ass'y for CA125-134
CA125M-3	Mixer, Lean
CA125M-418	Mixer, Ass'y
FB125M	Mixer Ass'y, Feedback
FB125M-2	W/ silicone diaphragm, feedback
FB125-30672-001	Feedback Mixer Ass'y, 4.3L SCAQMD

THROTTLE SHAFTS

PART #	DESCRIPTION
S5-1	6.4 mm (0.25") dia., 114 mm (4.50") long
S5-2	8.0 mm (0.31") dia., 127 mm (5.00") long
S5-6	6.4 mm (0.25") dia., 121 mm (4.75") long
S5-7	8.0 mm (0.31") dia., 133 mm (5.25") long
S5-11	8.0 mm (0.31") dia., 156 mm (6.13") long

RING SPACERS

PART #	DESCRIPTION
R1-18	Donaldson, V, 66.7 mm (2.63") dia.
R1-20	Donaldson, V, 58.7 mm (2.31") dia.
R1-29	Air valve spacer, AV1-14 (to lean idle mixtures)

AIR CLEANER ASSEMBLIES

PART #	DESCRIPTION
AF1-5	71 L/s (150 cfm), 172 mm (6.75") O.D., 60.3 mm (2.38") high
AF1-8	118 L/s (2.50 cfm), 234 mm (9.25") O.D., 76.2 mm (3.00") high
AL1-8-2	118 L/s (2.50 cfm), 234 mm (9.25") O.D., 76.2 mm (3.00") high
AF1-14	236 L/s (500 cfm), 228 mm (9.00") O.D., 191 mm (7.50") high
C1-28	Cover, F1-5

THROTTLE BODIES (STANDARD)

PART #	DESCRIPTION
AT2-1	3/4" SAE flange, 6.4 mm (0.25") shaft dia.
AT2-2	1" SAE flange, 6.4 mm (0.25") shaft dia.
AT2-2-5	1" SAE flange, 6.4 mm (0.25") shaft dia., w/ vacuum advance
AT2-3	1-1/4" SAE flange, 8.0 mm (0.31") shaft dia.
AT2-3-8	1-1/4" SAE flange, 8.0 mm (0.31") shaft dia., w/ vacuum advance
AT2-4-1	1-1/2" SAE flange, 8.0 mm (0.31") shaft dia.
AT2-4-3	1-3/4" SAE flange, 8.0 mm (0.31") shaft dia.
AT2-16-1	1-1/4" to 1/2" SAE flange, 8.0 mm (0.31") shaft dia., no vacuum port
AT2-16-3	1-1/4" to 1/2" SAE flange, 8.0 mm (0.31") shaft dia., w/ needle bearings & internal seal
AT2-16-4	1-1/4" to 1/2" SAE flange, 8.0 mm (0.31") shaft dia., w/ needle bearings
AT2-23	1-1/4" SAE flange, 8.0 mm (0.31") shaft dia.
AT2-23-4	1-1/4" SAE flange, 8.0 mm (0.31") shaft dia., w/ needle bearings & internal seal
AT2-23-8	1-1/4" SAE flange, 8.0 mm (0.31") shaft dia., w/ vacuum advance
AT2-2-6	Throttle Ass'y, 1" Long Shaft

NOTES: * AT2-16's have vacuum port.

* The above throttle bodies are offset.

SPACERS (OPTIONAL)

PART #	DESCRIPTION
AS3-10	Ass'y, 12.7 mm (0.50"), to turn Air horn 90°
AS3-43	Ass'y, 4.8 mm (0.19"), to turn Air horn 90°

BRACKET ASSEMBLIES (OPTIONAL)

PART #	DESCRIPTION
AB4-2	Boden wire
AB4-19	AS2-50-2 throttle return springs

RETURN SPRING ASSEMBLIES (OPTIONAL)

PART #	DESCRIPTION
AS2-50-1	Throttle return, 6.4 mm (0.25") shaft
AS2-50-2	Throttle return, 8.0 mm (0.31") shaft



SECTION 1: CARBURETORS & MIXERS CA125 SERIES

STANDARD & OPTIONAL EQUIPMENT (CONTINUED)

LEVERS

PART #	DESCRIPTION
AL1-7-1	Ass'y, 44.5 mm (1.75") long
AL1-7-2	Ass'y, w/ 6.4 mm (0.25") ball stud, 44.5 mm, long
AL1-7-3	Ass'y, 33.3 mm (1.31") long
AL1-7-4	Ass'y, w/ swivel, 44.5 mm (1.75") long
AL1-7-5	Ass'y, w/ Wisconsin swivel, 6.4 mm (0.25") mounting I.D., 20.6 mm (0.81") long
A1-8-1	Stop ass'y, 6.4 mm (0.25") mounting I.D., 19.1 mm (0.75") long
AL1-8-2	Stop ass'y, 8.0 mm (0.31") mounting I.D., 19.1 mm (0.75") long
AL1-8-3	Stop ass'y, 8.0 mm (0.31") mounting I.D., cutdown, 9.5 mm (0.38") long
AL1-8-4	Stop ass'y, 6.4 mm (0.25") mounting I.D., cutdown, 9.5 mm (0.38") long
AL1-25-1	Ass'y, spring loaded, floating, 6.4 mm (0.25") mounting I.D., 34.9 mm (1.38") long, w/ AC2-14-1
AL1-25-2	Ass'y spring loaded, floating, 8.0 mm (0.31") mounting I.D., 34.9 mm (1.38") long, w/ AC2-14-2
AL1-26-1	Ass'y, floating, 6.4 mm (0.25") mounting I.D., 54.0 mm (2.13") long, w/ AC2-11
AL1-26-2	Ass'y, floating, w/ swivel, 6.4 mm (0.25") mounting I.D., 54.0 mm (2.13") long, w/ AC2-11
AL1-27-1	Ass'y, floating, 8.0 mm (0.31") mounting I.D., 54.0 mm (2.13") long, w/ AC2-12
AL1-27-2	Ass'y, floating, w/ swivel, 8.0 mm (0.31") mounting I.D., 54.0 mm (2.13") long,
AL1-31	Ass'y, shaft clamp, 6.4 mm (0.25") mounting I.D., 49.2 mm (1.94") long
AL1-33	Ass'y, shaft clamp, 8.0 mm (0.31") mounting I.D., 49.2 mm (1.94") long
AL1-46	Ass'y, steel shaft clamp, 8.0 mm (0.31") mounting I.D., 47.6 mm (1.88") long

CLAMP

PART #	DESCRIPTION
AC2-29	Clamp Assy, CA125-76

GOVERNOR

PART #	DESCRIPTION
AT2-46G	Governor Ass'y
AT2-60-G-1	Governor Ass'y, Hyster 2V
AD1-85	Diaphragm, Asst. Throttle, governor
B2-20	Bearing, Sealed Shell Bearing

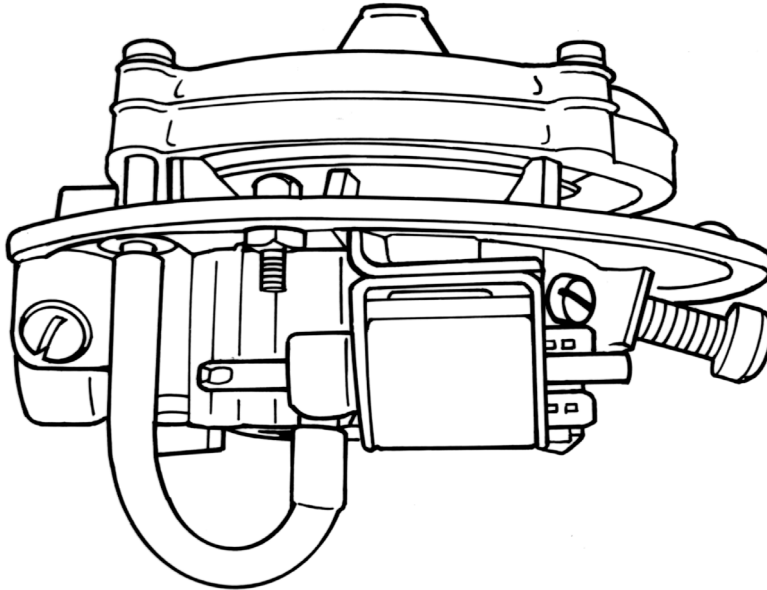
ADAPTER

PART #	DESCRIPTION
A1-53	Adapter, 125 Series Carb.
A2-7	Air Horn, 66.7 mm (2.63") dia.
A2-8	Air Horn, 58.7 mm (2.31") dia.
A2-9	Air Horn, 56.4 mm (2.22") dia.
A2-33	Air Horn, 80 mm (3.16") dia.
A2-34	Air Horn, 54 mm (2.13") dia.
A2-48	Air Horn, 70 mm (2.78") dia.
A3-28	200M, CA22M to 77.8 mm (3.06") hose (use w/ A3-32-1)
AA3-29-1	CA125M to 52.4 mm (2.06") hose
AA3-29-2	CA125M to 52.4 mm (2.06") hose, tapped 12-24
A3-105	Adapter 2V to CA125
A3-31	CA125M to 57.2 mm (2.25") hose
AA3-32-1	CA125M to IMPCO 2B throttle body
AA3-43	CA125M to Toyota lift truck throttle body
AA3-49	CA125M to Datsun C5-P5 Nikki throttle body
AA3-50	CA125M to Datsun C3-P3 throttle body
AA3-58	CA125M to throttle body, 11.1 mm (0.44") offset
A3-60	Adapter, CA125 Toyota 30A & 30B
A3-94	Datsun 4 bolt to 1" SAE flange

AIR-GAS VALVE ASSEMBLIES

PART #	DESCRIPTION
AV1-14	Std, w/ hydrin, diaphragm, LPG
AV1-14-2	Lean, w/ hydrin, diaphragm, LPG
AV1-14-3	Std, w/ silicone, diaphragm, LPG
AV1-14-4	Lean, w/ silicone, diaphragm, LPG
AV1-14-220-2	W/ silicone, diaphragm, for non-feedback
AV1-1447	For std. feedback, w/ hydrin, diaphragm
AV1-1447-2	For std. feedback, w/ silicone, diaphragm
CV1-14	Special lean, w/ hydrin, diaphragm
CV1-14-2	Special lean, w/ silicone, diaphragm
EV1-14	W/ 42 valve
EV1-14-2	W/ 42 valve & silicone diaphragm
EV1-14-4	Air Gas Valve Assembly
EV1-14-9	Air Gas Valve Assy V2

MODEL 125M-10 STANDARD CARBURETOR



TECHNICAL DESCRIPTION

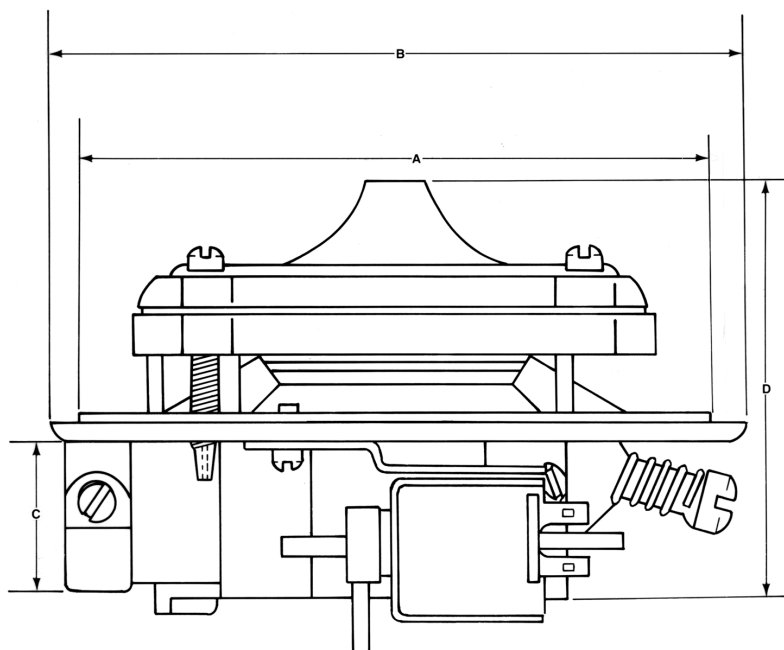
The Model 125M-10 is a vacuum lift mixer designed to reduce inlet restrictions in dual fuel installations. In some applications, inlet restrictions cannot be tolerated with a conventional gasoline carburetor as they will cause it to run rich.

The 125M-10 provides an electrically-operated solenoid that directs manifold vacuum to the top diaphragm chamber when gasoline operation is desired. This provides full air valve lift, reducing air inlet restriction to a minimum. The 125M-10 is available with standard type air-gas metering valves and feedback control systems. It is possible to use other 100/125 Series air valves with some modification using the P3-10 BB shot plugs.

TECHNICAL SPECIFICATIONS

Fuel Type.....	Natural Gas, LP-Gas, Digester Gas
Air Flow Capacity.....	235 cfm @ 2.0 in Hg manifold depression
Horsepower Rating.....	146 hp @ 2.0 in Hg manifold depression
Port Size.....	1/2 NPT
Materials	
Body.....	Aluminum
Diaphragm.....	Hydrin or Silicone
Diaphragm Cover.....	Aluminum

DIMENSIONS

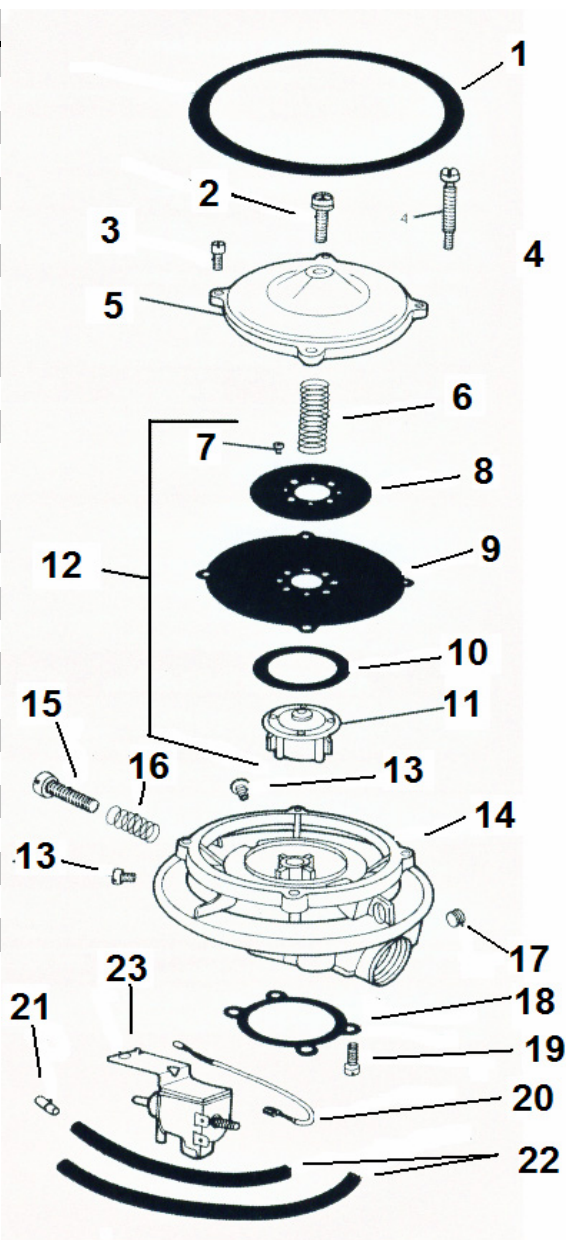


	A	B	C	D
MIXER	MIXER AIR HORN DIA.	OVERALL WIDTH	NPT INLET FITTING	OVERALL HEIGHT
CA125M-10	130 mm (5.13")	140 mm (5.50")	1/2"	100 mm (3.94")

MODEL 125M-10 STANDARD CARBURETOR

ITEM #	PART #	DESCRIPTION
1	G1-66	Gasket, mixer to Air Horn
2	NSS	Screw, 1/4-20 x 1" SEMS
3	S1-3	Screw, 10-24 x 5/8" SEMS (4)
4	NSS	Screw, 1/4 x 1-3/4" fillister head,
5	NSS	Cover, air valve
6	S2-85	Spring, air valve
7	NSS	Screw, 5-32 x 1/4" SEMS (4)
8	P2-22	Plate, backup
9	D1-17	Diaphragm
	D1-17-2	Diaphragm, silicone
10	R1-19	Ring, air valve
11	NSS	Air gas valve ass'y, complete
12	AV1-14	Valve & diaphragm ass'y, complet (refer to supplemental list for other gas valves)
13	S1-69	Screw, 1/4-28 x 5/16" (3)
14	NSS	Body ass'y
15	NSS	Screw, idle
16	S2-16	Spring, idle screw
17	NSS	Plug, 1/8 NPT
18	G1-11	Gasket, throttle body to mixer
19	S1-19	Screw, 12-24 x 5/8" SEMS (4)
20	NSS	Wire, terminal
21	F4-2	Fitting, 1/4-28 to 1/4" hose
22	NSS	Hose
23	NSS	Vacuum lift solenoid valve
NS	F4-40	Fitting, 1/4-28 to 3/16" hose
NS	NSS	Screw, self drilling/tapping

NSS = Not Serviced Separately





MODEL 125M-10 STANDARD CARBURETOR

MIXERS

PART #	DESCRIPTION
CA125M-10	W/ vacuum lift
CA125M-10-2	W/ silicone diaphragm

AIR GAS VALVE ASSEMBLIES

PART #	DESCRIPTION
AV1-14-12	Dual fuel for vacuum lift CA125M-10, w/ Hydrin diaphragm
AV1-14-12-2	Dual fuel for vacuum lift CA125M-10, w/ silicone diaphragm
AV1-1447*	For std. feedback, w/ Hydrin diaphragm
AV1-1447-2*	For std. feedback, w/ silicone diaphragm

V2-32 Valve, DV1-14-1 55-60 Flow

* Modification required for vacuum lift operation.

AIR CLEANER ASSEMBLIES

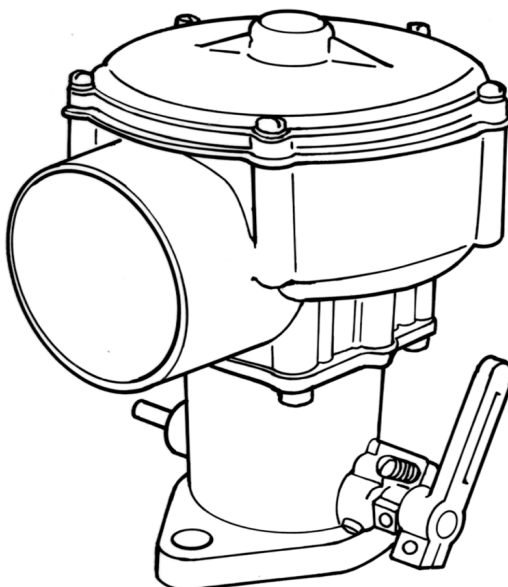
PART #	DESCRIPTION
AF1-5	71L/s (150 cfm), 172 mm (6.75") O.D., 60.3 mm (2.38") high
AF1-8	118L/s (250 cfm), 234 mm (9.25") O.D., 76.2 mm (3.00") high
AF1-8-2	118L/s (250 cfm), 234 mm (9.25") O.D., 76.2 mm (3.00") high (offset)
AF1-14	236L/s (500 cfm), 228 mm (9.00") O.D., 191 mm (7.50") high

ADAPTERS

PART #	DESCRIPTION
A2-7	Air Horn 66.7 mm (2.63") dia.
A2-8	Air Horn 58.7 mm (2.31") dia.
A2-9	Air Horn 56.4 mm (2.22") dia.
A2-33	Air Horn 80 mm (3.16") dia.
A2-34	Air Horn 54 mm (2.13") dia.
A2-48	Air Horn, 70 mm (2.78) dia.
AA3-29-1	CA125M to 2-1/16" hose
AA3-29-2	CA125M to 2-1/16" hose, tapped 12-24
A3-29-3	CA125M to 2-1/16" hose, w/ mounting base
A3-30	200M, CA225M to 2-5/8" hose (use w/ A3-32-1)
A3-31	CA125M to 2-1/4" hose
AA3-32-1	CA125 to IMPCO 2B throttle body

MODEL 125M-10 STANDARD CARBURETOR**CA125 SERIES
CARBURETORS / MIXERS**

PART #	DESCRIPTION
CA125-094	Carburetor Ass'y, 1.25 x 1.50 SAE
CA125-100-2	Carburetor, 1-1/2" SAE flange w/ Silicone
CA125-108	1-1/4" high profile SAE flange, 2-5/16" Air Horn, Oilite bearings, lean flow
CA125-134	Carburetor, governor ass'y, Hyster forklift
CA125-14	1-1/4" & 1-1/2" SAE flange, 2-5/8" center stud Air Horn
CA125-14-1	1" SAE flange, lean flow
CA125-20	1-1/4" & 1-1/2" SAE flange, to fit 5" Air Horn
CA125-26	Carburetor, 1-1/2" SAE flange, 2-5/8" Air Horn
CA125-38	1-1/4" SAE flange, 2-5/16" Air Horn, EV1-14 72/80 flow
CA125-44	Carburetor, 1-1/4" SAE flange, 2-5/16" Air Horn
CA125-52	1-1/4" & 1-1/2" SAE flange, no Air Horn, w/ bracket & swivel
CA125-6	1-1/4" & 1-1/2" SAE flange, 2-5/16" Air Horn
CA125-75	1-1/4" SAE flange (short), 80 mm Air Horn, lever w/ clamp on
CA125-76-2	1-1/4" SAE flange (short), 80 mm Air Horn, spring hole R, w/ AV1-14-76-2
CA125-8	1-1/4" & 1-1/2" SAE flange, 2-5/16" center stud Air Horn
CA125-80-2	1-1/4" SAE flange (short), 80 mm Air Horn, drilled for spring, Silicone dia.
CA125M	Mixer with Hydrin diaphragm
CA125M-089	Mixer Assembly (8509089)
CA125M-10	Dual fuel, vacuum lift mixer with Hydrin diaphragm
CA125M-10-2	Dual fuel, vacuum lift mixer with Silicone diaphragm
CA125M-2	Mixer with Silicone diaphragm
CA125M-292	Mixer Assembly for CA125-134
CA125M -3	Lean flow mixer with Silicone diaphragm
CA125M-418	Mixer Assembly
FB125M	Mixer for feedback, with Hydrin diaphragm
FB125M-2	Mixer for feedback, with Silicone diaphragm
FB125-30672-001	Mixer Assembly Feedback 4.3 L SCAQMD

MODEL CA200 STANDARD CARBURETOR**TECHNICAL DESCRIPTION**

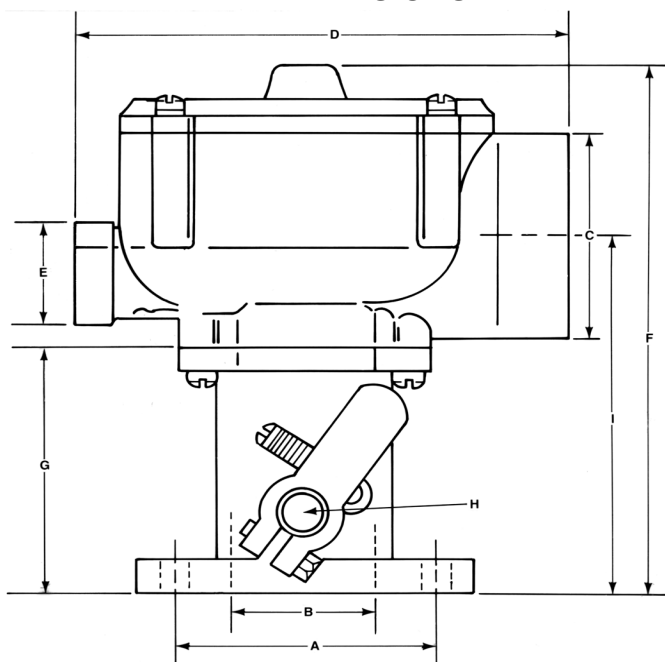
The Model 200 Series is a single diaphragm air-valve carburetor / mixer. It offers a 90° air inlet to provide low overhead clearance, and is available with several air horn and throttle valve options. This unit is available for LPG, Natural Gas, and Digester Gas applications. It has been successfully used for other hydrocarbon-based vapor fuels as low as 500 BTU.

The Model 200 is also available for feedback applications with the 'FB' designation. These FB mixers are also available in tamper resistant configuration, indicated by the suffix "-TR" on the part number. It is also possible to convert standard units to a tamper resistant configuration through the use of a retrofit kit (check the Accessories Section for more information).

The 200 mixer provides a convenient 1/8" balance port at the air inlet, however, it does not include air valve vacuum ports. These ports can be added with modification to the main body or adapter casting if required. Additional low speed idle mixture control can be obtained to lean air-fuel mixtures through the use of optional shims. All DG series mixers reduce air flow by 30%.

TECHNICAL SPECIFICATIONS

Fuel Type.....	Methane / Propane (550 - 2,500 BTU)
Maximum Fuel Inlet.....	Pressure 8.0 in H2O
Maximum Boost Pressure.....	5.0 psi
Air Flow Capacity.....	345 cfm @ 2.0 in Hg manifold (derate 15% for methane)
Horsepower.....	215 hp @ 2,500 BTU per cubic feet
Operating Temperature.....	-40°C to 120°C (-40°F to 250°F)
Materials	
Body.....	Aluminum
Diaphragm.....	Hydrin (Standard), Silicone (Optional)

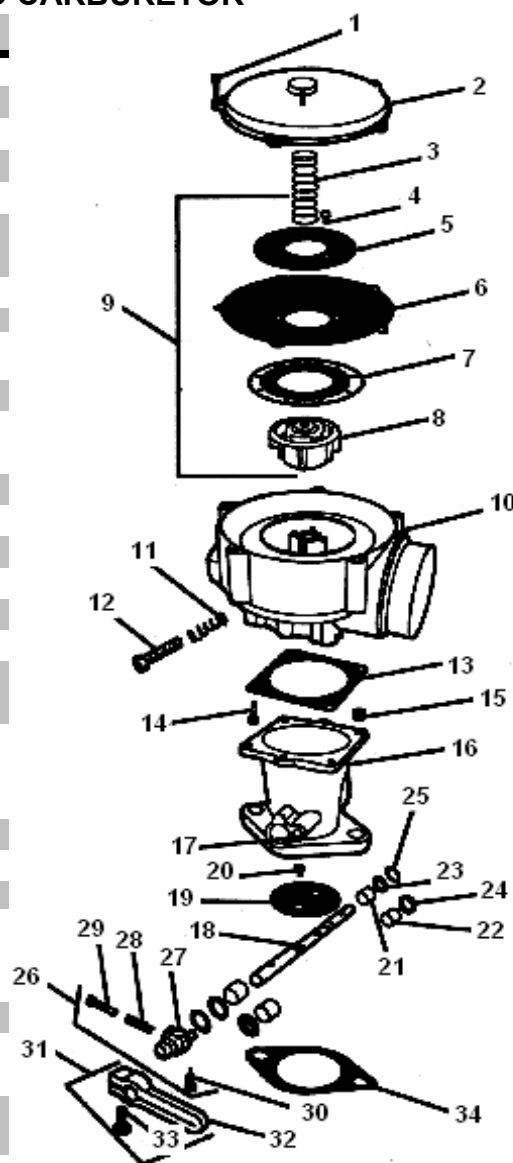
DIMENSIONS


	A	B	C	D	E	F	G	H	I			
STD. CARB.	MIXER	THRTL. BODY	SAE FLANG.	CTR. TO CTR. BOLT SPACING	BORE	MIXER AIR HORN DIA.	OVERALL WIDTH	NPT INLET FITTING	OVERALL HEIGHT	THRTL. BODY HEIGHT	THRTL. SHAFT DIA.	FLANG. TO CTR. OF AIR HORN
200-2-2	200M-1-2	AT2-4-2	1-1/2"	74.6 mm (2.938")	42.9 mm (1.688")	66.7 mm (2.625")	165 mm (6.500")	3/4"	175 mm (6.875")	69.9 mm (2.750")	7.9 mm (0.313")	110 mm (4.334")
200-4	200M-1	AT2-5	1-3/4"	84.1 mm (3.313")	49.2 mm (1.938")	66.7 mm (2.625")	165 mm (6.500")	3/4"	187 mm (7.375")	82.6 mm (3.250")	9.5 mm (0.375")	123 mm (4.844")
200-6	200M-2	AT2-6	2"	90.5 mm (3.563")	55.6 mm (2.188")	77.8 mm (3.063")	165 mm (6.500")	3/4"	187 mm (7.375")	82.6 mm (3.250")	9.5 mm (0.375")	123 mm (4.844")
200-6-2	200M-2-2	AT2-6	2"	90.5 mm (3.563")	55.6 mm (2.188")	77.8 mm (3.063")	165 mm (6.500")	3/4"	187 mm (7.375")	82.6 mm (3.250")	9.5 mm (0.375")	123 mm (4.844")
200-8	200M-2	AT2-5	1-3/4"	84.1 mm (3.313")	49.2 mm (1.938")	77.8 mm (3.063")	165 mm (6.500")	3/4"	187 mm (7.375")	82.6 mm (3.250")	9.5 mm (0.375")	123 mm (4.844")
200-8-2	200M-2-2	AT2-5	1-3/4"	84.1 mm (3.313")	49.2 mm (1.938")	77.8 mm (3.063")	165 mm (6.500")	3/4"	187 mm (7.375")	82.6 mm (3.250")	9.5 mm (0.375")	123 mm (4.844")

MODEL CA200 STANDARD CARBURETOR

ITEM #	PART #	DESCRIPTION
1	S1-3	Screw, 10-24 x 5/8" SEMS (4)
2	C1-18	Cover
3	S2-17	Spring, air valve
4	S1-12	Screw, 8-32 x 5/16" SEMS (4)
5	P2-21	Plate, backup
6	D1-16-1	Diaphragm
	D1-16-2	Diaphragm, silicone
7	R1-17	Ring, air valve
8	NSS	Air-gas valve ass'y
9	AV1-12-6	Air-gas valve ass'y, complete w/ diaphragm
10	NSS	Body ass'y, 66.7 mm (2.625") Air Horn
	AB1-11-2	Body ass'y, 77.8 mm (3.063") Air Horn
11	S2-16	Spring, idle screw
12	NSS	Screw, idle
13	G1-21	Gasket, throttle body to mixer
14	S1-19	Screw, 12-24 x 5/8 SEMS (4)
15	NSS	Plug, 1/8 NPT
16	NSS	(Refer to throttle body chart)
17	NSS	Pin, throttle stop (2)
18	S5-2	Throttle shaft, 7.9 mm (0.313") dia.
	S5-3	Throttle shaft, 9.5 mm (0.375") dia.
19	F2-4	Butterfly, 38.1 mm (1.500")
	F2-5	Butterfly, 44.5 mm (1.750")
	F2-6	Butterfly, 50.8 mm (2.000")
20	S1-12	Screw, 8-32 x 5/16" SEMS (2)
21	B2-13	Bearing, Oilite, 7.9 mm (0.313") I.D. (2)
22	B2-7	Bearing, needle, 7.9 mm (0.313") I.D.
	NSS	Bearing, needle, 9.5 mm (0.375") I.D.
23	S3-9	Seal, 7.9 mm (0.313") shaft (2)
	S3-11	Seal, 9.5 mm (0.375") shaft (2)
24	S3-20	Seal, internal, 9.5 mm (0.375") I.D., optional
25	R1-9	Ring, seal retainer, 7.9 mm (0.313") shaft (2)
	R1-8	Ring, seal retainer, 9.5 mm (0.375") shaft (2)
26	AL1-8-2	Throttle stop ass'y, 7.9 mm (0.313") I.D.
	AL1-10	Throttle stop ass'y, 9.5 mm (0.375") I.D.
27	NSS	Throttle stop lever, 7.9 mm (0.313") I.D.
	NSS	Throttle stop lever, 9.5 mm (0.375") I.D.
28	S2-15	Spring, stop screw
29	S1-21	Stop screw, 10-32 x 3/4"
30	S1-18	Pin screw, throttle stop
31	AL1-7-1	Throttle lever, w/ S1-17, L1-7-
	AL1-9-1	Throttle lever, w/ S1-26, L1-9-
32	NSS	Throttle lever
33	NSS	Screw, 10-24 x 5/8"
	NSS	Screw, 12-24 x 5/8"
34	G1-19	Gasket, 38.1 mm (1.500") flange
	G1-23	Gasket, 44.5 mm (1.750") flange
	G1-24	Gasket, 50.8 mm (2.000") flange

NSS = Not Serviced Separately





SECTION 1: CARBURETORS & MIXERS CA200 SERIES

MODEL CA200 STANDARD CARBURETOR

MIXERS, LP GAS (STANDARD)

PART #	DESCRIPTION
200M-1	For 66.7 mm (2.63") Air Horn
200M-1-2	For 66.7 mm (2.63") Air Horn, w/ silicone diaphragm
200M-2	For 77.8 (3.06") Air Horn
200M-2-2	For 77.8 (3.06") Air Horn, w/ silicone diaphragm
200M-2-3	Mixer Assembly, 200 Series
FB200-2-6	Model 200M Mixer Ass'y
FB200M-1	For feedback, 66.7 mm (2.63") Air Horn
FB200M-1-2	For ATECO, feedback, 66.7 mm (2.63") Air Horn
FB200M-2	For feedback, 77.8 mm (3.06") Air Horn
FB200M-2-2	For feedback, 77.8 mm (3.06") Air Horn, w/ silicone diaphragm
NG200M -2-2	Mixer assembly for NG

ADAPTERS

PART #	DESCRIPTION
AA3-19	200M to Holley 2B throttle body
A3-28	200M to 3-1/16" hose
A3-30	200M to 2-5/8" hose
AA3-32-2	200M to CA100 throttle body
AA3-47-2	200M to CA425 throttle body
AA3-48-2	200M to CA425 hose elbow

RING SPACER

PART #	DESCRIPTION
R1-30	Ring, air valve spacer, for AV1-12 (to learn mixture)

RETURN SPRINGS

PART #	DESCRIPTION
AS2-50-2	7.9 mm (0.31") throttle return
AS2-50-3	9.5 mm (0.38") throttle return
AS2-50-4	11.1 mm (0.44") throttle return

THROTTLE BODIES (ONE BARREL)

PART #	DESCRIPTION
AT2-4-2	Standard, 38.1 mm (1.50") flange, 7.9 mm (0.31") shaft dia.
AT2-4-5	38.1 mm (1.50") flange, 7.9 mm (0.31") shaft dia., w/ needle bearings
AT2-5	Standard, 44.5 mm (1.75") flange, 9.5 mm (0.38") shaft dia.
AT2-5-2	44.5 mm (1.75") flange, 9.5 mm (0.38") shaft dia., w/ needle bearings
AT2-6	Standard, 50.8 mm (2.00") flange, 9.5 mm (0.38") shaft dia., center bore
AT2-6-3	50.8 mm (2.00") flange, 9.5 mm (0.38") shaft dia., center bore, w/ needle bearings & internal seal

THROTTLE BODIES (TWO BARREL)

PART #	DESCRIPTION
AT2-11-1	Standard, 31.8 mm (1.25") flange, 11.1 mm (0.44") shaft dia.
AT2-12	Standard, 38.1 mm (1.50") flange, 11.1 mm (0.44") shaft dia.
AT2-13-1	Standard, Holley, 11.1 mm (0.44") shaft dia.
AT2-13-2	Holley, 11.1 mm (0.44") shaft dia.

THROTTLE SHAFTS

PART #	DESCRIPTION
S5-2	7.9 mm (0.31") dia., 127 mm (5.00") long, standard AT2-4-2
S5-3	9.5 mm (0.38") dia., 138 mm (5.44") long, standard on AT2-5, AT2-6
S5-4	11.1 mm (0.44") dia., 179 mm (7.06") long, standard on 2B throttle bodies
S5-7	7.9 mm (0.31") dia., 133 mm (5.25") long mm (5.00")
S5-11	7.9 mm (0.31") dia., 156 mm (6.13") long

SPACERS

PART #	DESCRIPTION
AS3-45	Spacer ass'y, 20.6 mm (0.81") high
AS3-10	12.7 mm (0.500") tall, used to rotate mixer Air Horn 90°
AS3-43	4.8 MM (0.188") tall, used to rotate mixer Air Horn 90°

MODEL CA200 STANDARD CARBURETOR
LEVERS

PART #	DESCRIPTION
AL1-7-1	Ass'y, 44.5 mm (1.75") long (std. on AT2-3, AT2-4-1, AT2-4-3, AT2-16-1)
AL1-7-2	Ass'y, w / 64 mm (0.25") ball stud, 44.5 mm (1.75") long
AL1-7-3	Ass'y, 33.3 mm (1.31") long (std. on AT2-1, AT2-2, AT2-23)
AL1-7-4	Ass'y, w/ swivel, 44.5 mm (1.75") long
AL1-8-2	Stop ass'y, 7.9 mm (0.31") mounting I.D., 19.1 mm (0.75") long (std. on AT2-3, AT2-4-1, AT2-4-3, AT2-16-1, AT2-23)
AL1-8-4	Stop ass'y, 7.9 mm (0.31") mounting I.D., 19.1 mm (0.75") long
AL1-9-1	58.7 mm (2.31") long (standard on AT2-5, AT2-6)
AL1-10	Lever stop ass'y, 9.5 mm (0.38") mounting I.D., 22.2 mm (0.88") long, standard on AT2-5, AT2-6
AL1-11-1	Lever stop ass'y, 11.1 mm (0.44") mounting I.D., 25.4 mm (1.00") long, standard on AT2-11-1, AT2-12, AT2-13-1, AT2-15
AL1-12-1	77.8 mm (3.06") long
AL1-12-3	58.7 mm (2.31") long, standard on AT2-11-1, AT2-12, AT2-13-1, AT2-15
AL1-25-2	Ass'y, spring loaded, floating 7.9 mm (0.31") mounting I.D., 34.9 mm (1.38") long, w/ AC2-14-2
AL1-27-1	Ass'y, floating 7.9 mm (0.31") mounting I.D., 54.0 mm (2.13") long, w/ AC2-12
AL1-27-2	Ass'y, floating 7.9 mm (0.31") mounting I.D., 54.0 mm (2.13") long, w/ AC2-12, w/ swivel
AL1-33	Ass'y, shaft clamp, 7.9 mm (0.31") mounting I.D., 49.2 mm (1.94") long
AL1-46	Ass'y, steel shaft clamp, 7.9 mm (0.31") mounting I.D., 47.6 mm (1.88") long

NOTE:

- AL1-7-1 through AL1-7-4 levers used w/ AL1-8 lever stop.
- AL1-9 levers used w/ AL1-10 lever stop.
- AL1-12 levers used w/ AL1-11 lever stop.
- See Accessories section of catalog for other optional levers.

AIR GAS VALVES

PART #	DESCRIPTION
AV1-12	Standard, w/ Hydrin diaphragm
AV1-12-2	Standard, w/ Silicone diaphragm
AV1-12-3	For 1 & 2 cylinder engines, w/ Hydrin diaphragm & ball check ass'y
AV1-12-3-2	For 1 & 2 cylinder engines, w/ Silicone diaphragm & ball check ass'y
AV1-12-6	Rich, w/ Hydrin diaphragm
AV1-1245	Standard feedback, w/ Hydrin diaphragm
AV1-1245-2	Standard feedback, w/ Silicone diaphragm
AV1-1245-4	Feedback, richer idle
DG-AV1-12	For digester gas (550-750 BTU), w/ Hydrin diaphragm
DG-AV1-12-2	For digester gas (550-750 BTU), w/ Silicone diaphragm
LH-AV1-12-2	Valve Ass'y, Low Heat, Silicone
CV1-12	Valve Ass'y, Natural Gas
CV1-12-2	For Natural Gas, w/ Silicone diaphragm

SLEEVE DIGESTER MIXER

PART #	DESCRIPTION
S6-1	Sleeve DG200

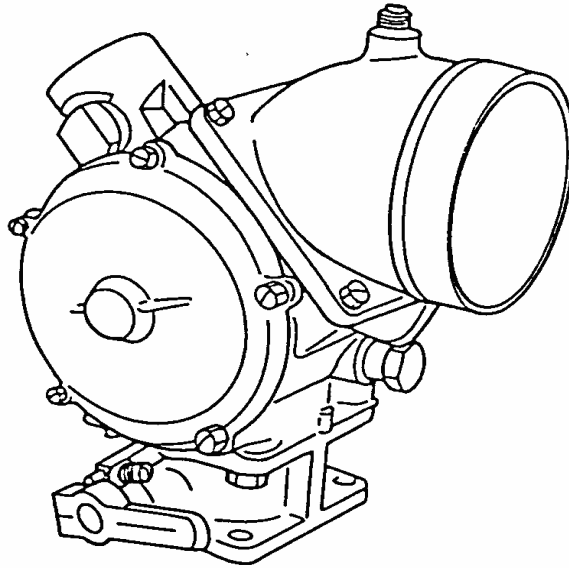


MODEL CA200 STANDARD CARBURETOR

CARBURETORS / MIXERS

PART #	DESCRIPTION
200-4	1-3/4" SAE flange, 2-5/8" Air Horn with Hydrin diaphragm
200-6	2" SAE flange, 3-1/16" Air Horn with Hydrin diaphragm
200-6-2	2" SAE flange, 3-1/16" Air Horn with Silicone diaphragm
200-6X-2	Carb. w/ Ball Check and Silicone
200-8	1-3/4" SAE flange, 3-1/16" Air Horn with Hydrin diaphragm
200-8-2	1-3/4" SAE flange, 3-1/16" Air Horn with Silicone diaphragm
200M-1	Mixer, 2-5/8" Air Horn with Hydrin diaphragm
200M-1-2	Mixer, 2-5/8" Air Horn with Silicone diaphragm
200M-2	Mixer, 3-1/16" Air Horn with Hydrin diaphragm
200M-2-2	Mixer, 3-1/16" Air Horn with Silicone diaphragm
200M-2-3	Mixer, Ass'y
200-2-2	Carburetor, 1-1/2" SAE flange, 2-5/8" Air Horn Silicone permaglride bearings, IS, center bore
FB200M-1	2-5/8" Air Horn with Hydrin diaphragm for ADP feedback system
FB200M-1-2	2-5/8" Air Horn with Silicone diaphragm for ADP feedback system
FB200M-2	3-1/16" Air Horn with Hydrin diaphragm for ADP feedback system
FB200M-2-2	3-1/16" Air Horn with Silicone diaphragm for ADP feedback system
FB200-2-6	Model 200 Mixer Ass'y
NG200M-2-2	200 Mixer Ass'y for Natural Gas

MODEL 200D STANDARD CARBURETOR



TECHNICAL DESCRIPTION

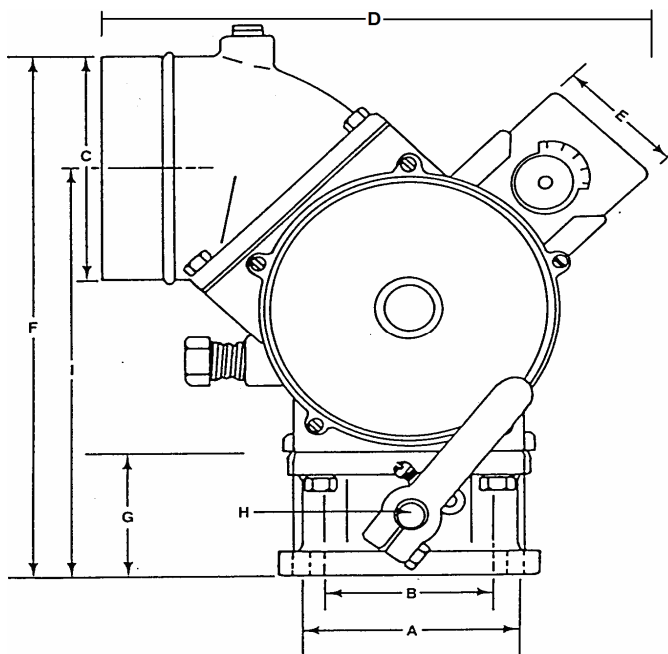
The Model 200D Series is a double diaphragm air-valve carburetor / mixer. It offers a 90° air inlet to provide low overhead clearance, and is available with several Air Horn and throttle valve options. This unit is available for Propane, Natural Gas, and Digester Gas applications. It can be used for other hydrocarbon-based vapor fuels as low as 500 BTU. The Model 200D is also available for feedback applications with the 'FB' designation.

The 200 mixer provides a convenient 1/4" balance port at the air inlet, however, it does not include air valve vacuum ports. These ports can be added with modification to the main body or adapter casting if required. Additional low speed idle mixture control can be obtained to lean air-fuel mixtures through the use of optional shims. All DG series mixers reduce air flow by 30%.

TECHNICAL SPECIFICATIONS

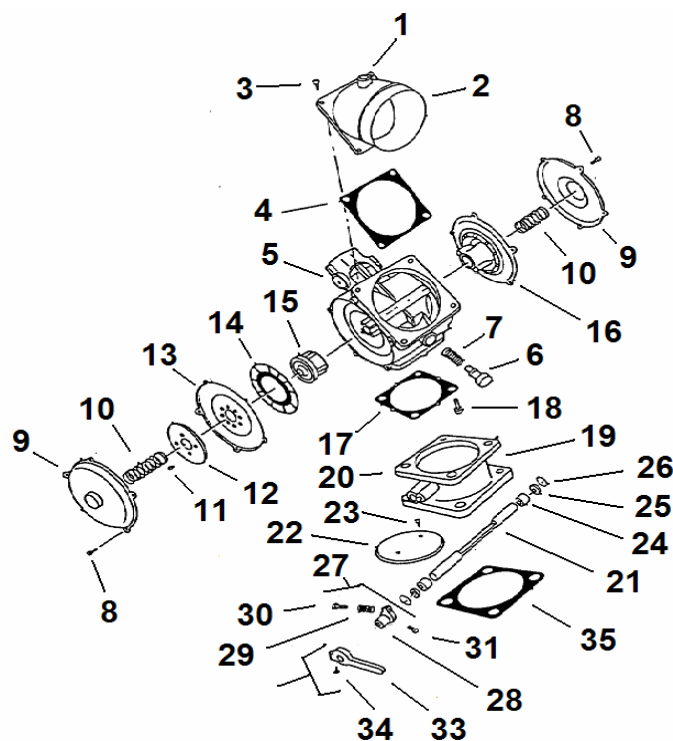
Fuel Type.....	Methane / Propane (550 - 2,500 BTU)
Maximum Fuel Inlet.....	Pressure 8.0 in H ₂ O
Maximum Boost Pressure.....	5.0 psi
Air Flow Capacity.....	468 cfm @ 2.0 in Hg manifold (derate 15% for methane)
Horsepower.....	292 hp @ 2,500 BTU per cubic feet
Operating Temperature.....	-40°C to 120°C (-40°F to 250°F)
Materials	
Body.....	Aluminum
Diaphragm.....	Hydrin (Standard), Silicone (Optional)

DIMENSIONS



				A	B	C	D	E	F	G	H	I
STD. CARB.	MIXER	THRTL. BODY	SAE FLANG.	CTR. TO CTR. BOLT SPACING	BORE	MIXER AIR HORN DIA.	OVRL. WIDTH	NPT INLET	OVRL. HEIGHT	THRTL. BODY HEIGHT	THRTL. SHAFT DIA.	FLANG. TO CTR. OF AIR HORN
200D-1	200DM	AT2-7	2-1/2"	73.0 mm (2.875")	68.2 mm (2.6875")	88.9 mm (2.625")	260.3 mm (10.25")	1-1/4"	236.5 mm (9.3125")	53.9 mm (2.125")	11.1 mm (.4375")	185.7 mm (7.3125")
200D-3	200DM	AT2-7	2-1/2"	73.0 mm (2.875")	68.2 mm (2.6875")	101.6 mm (4.0")	260.3 mm (10.25")	1-1/4"	236.5 mm (9.3125")	53.9 mm (2.125")	11.1 mm (.4375")	185.7 mm (7.3125")
200D-5	200DM	AT2-8	3"	76.2 mm (3.0")	80.9 mm (3.1875")	88.9 mm (2.625")	260.3 mm (10.25")	1-1/4"	236.5 mm (9.3125")	55.5 mm (2.1875")	11.1 mm (.4375")	185.7 mm (7.3125")

200D SERIES



ITEM #	PART #	DESCRIPTION	ITEM #	PART #	DESCRIPTION
1	NSS	Plug, 1/4" NPT	20	P1-6	Pin, throttle Stop
2	E1-7	Air Horn	21	S5-4	Throat Shaft, 7/16" Dia
3	S1-27	Screw, 1/4-20 x 3/4" SEMS	22	F2-7 F2-8	Fly, 2 - 1/2" Fly, 3"
4	G1-26	Gasket, Air Horn	23	NSS	Screw, 12-24 x 5/8" SEMS
5	NSS	Body, Ass'y	24	B3-44	Permaglide Bearing, 7/16" ID
6	NSS	Screw, Idle	25	S3-96	Seal, Internal 7/16" Shaft
7	S2-18	Spring, Idle Screw	26	R1-52	Ring, Seal Retainer
8	S1-3	Screw, 10-24 x 5/8" SEMS	27	AL1-11-1	Throttle Stop Ass'y
9	C1-18	Cover	28	NSS	Throttle Stop Lever
10	S2-17	Spring, air valve	29	S2-15	Spring, Idle Stop
11	S1-12	Screw, 8-32 x 5/16" SEMS	30	S1-12	Screw, Idle Stop 10-32 x 3/4"
12	P2-21	Plate, Back up	31	S1-18	Pin, Screw Throttle Stop
13	D1-16-1 D1-16-2	Diaphragm Diaphragm, Silicone	32	AL1-12-3	Throttle Lever Ass'y, Long
14	R1-17	Ring, Air Valve	33	NSS	Throttle Lever
15	BV1-12	Air Gas Valve Ass'y	34	S1-32	Screw, 1/4 - 20 x 7/8" Hex
16	AV1-12	Valve and Diaphragm Ass'y	35	G1-27 G1-28	Gasket, 2-1/2" Flange Gasket, 3" Flange
17	G1-25	Gasket, Throttle Body to Mixer			
18	S1-30	Screw, 5/16 - 18 x 7/8" Hex			
19	NSS	Throat Ass'y			



SECTION 1: CARBURETORS & MIXERS 200D SERIES

MODEL 200D STANDARD CARBURETOR

MIXERS

PART #	DESCRIPTION
200DM	Mixer, Right Hand
200DM-2	Mixer, Right Hand w/Silicone
200DM-2L	Mixer, Left Hand w/Silicone
200DM-49M	Mixer, Ass'y Turbo
200DM-884	Mixer, Ass'y Left Hand with Elbow
200DM-901	Mixer, Ass'y Turbo Cummins L10
200D-1	Carb., 2-1/2" SAE 3-1/2" Air horn
200D-3	Carb., 2-1/2" SAE 4" Air horn
200D-3-2	Carb. Ass'y, R.H. w/ 2-1/2" T/B
200D-3L	Carb. Ass'y 2-1/2" x 4" Air Horn L.H.
200D-5	Carb. Ass'y 3" SAE R.H.

THROTTLE BODIES

PART #	DESCRIPTION
AT2-7	2-1/2" SAE Flange, 7/16" Shaft w/ permaglide
AT2-8	3" SAE Flange, 7/16" Shaft w/ permaglide

THROTTLE SHAFT

PART #	DESCRIPTION
S5-4	7/16" Diam, 7-1/16" Long Std

AIR-GAS VALVE ASSEMBLIES

PART #	DESCRIPTION
AV1-12	Air Gas Valve Ass'y, STD. Hydrin
AV1-12	Air Gas Valve Ass'y, STD. w/ Silicone
AV1-12-3	Air Gas Valve Ass'y, STD. w/ Ball Check
AV1-1245	Air Gas Valve Ass'y, Feedback Hydrin
AV1-1245-2	Air Gas Valve Ass'y, Feedback Silicone
CV1-12	Air Gas Valve Ass'y, Natural Gas Hydrin
CV1-12-2	Air Gas Valve Ass'y, Natural Gas Silicone
DGAV1-12	Air Gas Valve Ass'y, Digester Gas Hydrin
DGAV1-12-2	Air Gas Valve Ass'y, Digester Gas Silicone
LH-AV1-12-2	Air Gas Valve Ass'y, Low heat Gas Silicone

LEVERS

PART #	DESCRIPTION
AL1-11-1	Stop Assembly, 7/16" mounting ID
AL1-12-1	Assembly, 3-1/16" long
AL1-12-3	Assembly, 2-5/16" long Std.

RETURN SPRINGS

PART #	DESCRIPTION
AS2-50-4	7/16" Throttle Return

RING SPACER

PART #	DESCRIPTION
R1-30	Ring, Air Valve Spacer

BRACKET ASSEMBLY

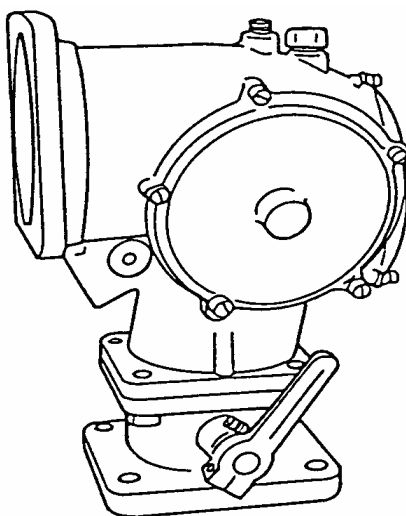
PART #	DESCRIPTION
AB4-4	Bracket, Boden Wire

ADAPTERS

PART #	DESCRIPTION
E1-7	Air Horn, 45° elbow 4" Dia.
E1-8	Air Horn, 45° elbow 3-1/2" Dia.

GASKETS

PART #	DESCRIPTION
G1-140	Gasket Diaphragm, 200D Turbo
E1-8	Air Horn, 45° elbow 3-1/2" Dia.

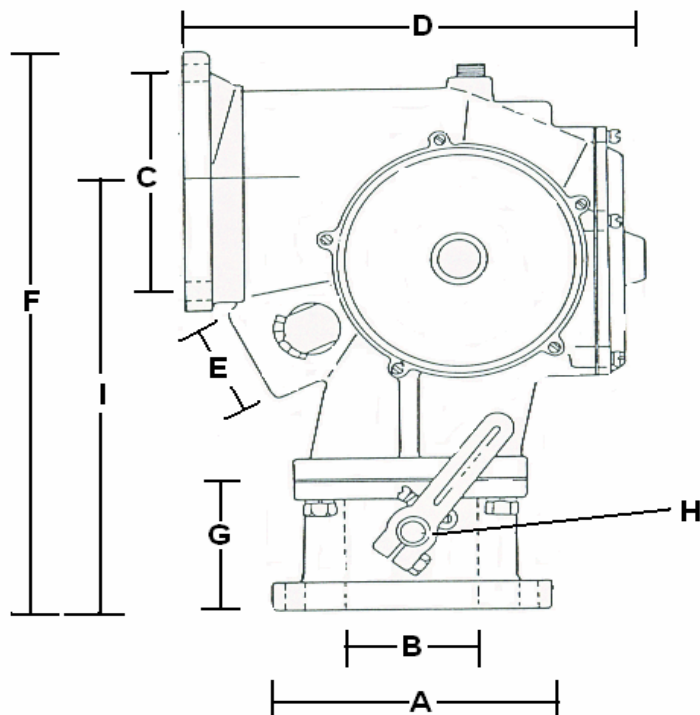
MODEL 200T STANDARD CARBURETOR**TECHNICAL DESCRIPTION**

The Model 200T Series is a double diaphragm air-valve carburetor / mixer. It offers a 90° air inlet to provide low overhead clearance, and is available with several air horn and throttle valve options. This unit is available for Propane, Natural Gas, and Digester Gas applications. It can be used for other hydrocarbon-based vapor fuels as low as 500 BTU. The Model 200T is also available for feedback applications with the 'FB' designation.

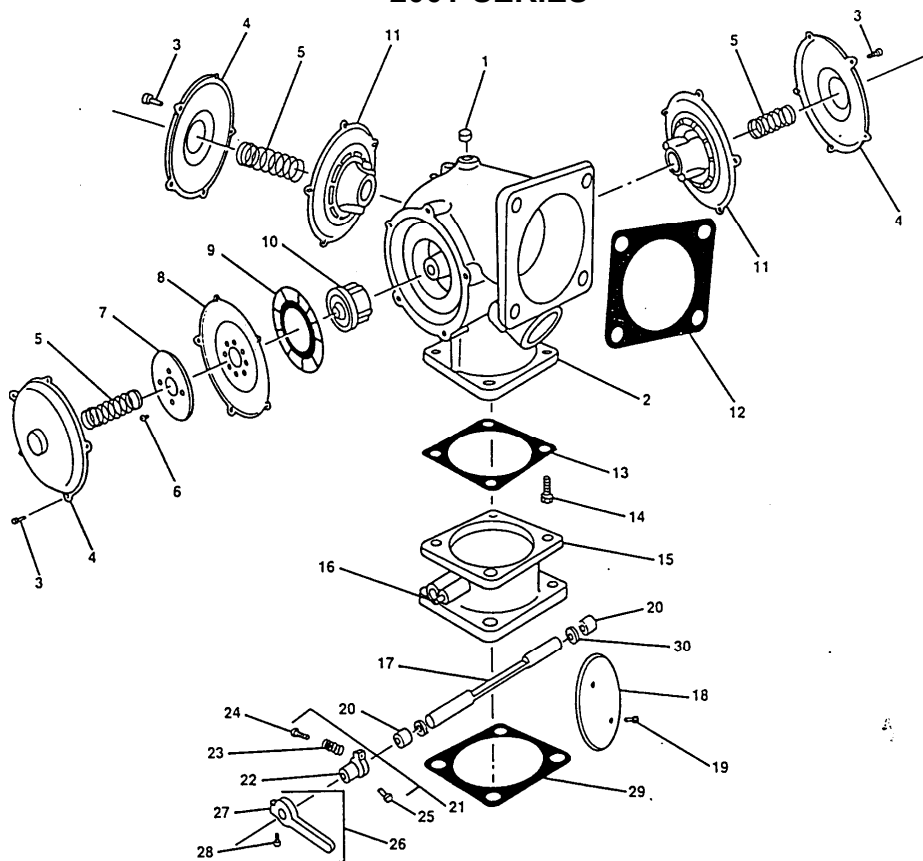
The 200T mixer provides a convenient 1/4" balance port at the air inlet, however, it does not include air valve vacuum ports. These ports can be added with modification to the main body or adapter casting if required. Additional low speed idle mixture control can be obtained to lean air-fuel mixtures through the use of optional shims. All DG series mixers reduce air flow by 30%.

TECHNICAL SPECIFICATIONS

Fuel Type.....	Methane / Propane (550 - 2,500 BTU)
Maximum Fuel Inlet.....	Pressure 8.0 in H ₂ O
Maximum Boost Pressure.....	5.0 psi
Air Flow Capacity.....	680 cfm @ 2.0 in Hg manifold (derate 15% for methane)
Horsepower.....	425 hp @ 2,500 BTU per cubic feet
Operating Temperature.....	-40°C to 120°C (-40°F to 250°F)
Materials	
Body.....	Aluminum
Diaphragm.....	Hydrin (Standard), Silicone (Optional)

DIMENSION


				A	B	C	D	E	F	G	H	I
STD. CARB.	MIXER	THRTL. BODY	SAE FLANG.	CTR. TO CTR. BOLT SPACING	BORE	MIXER AIR HORN DIA.	OVRAL. WIDTH	NPT INLET	OVRAL. HEIGHT	THRTL. BODY HEIGHT	THRTL. SHAFT DIA.	FLANG. TO CTR. OF AIR HORN
200T-1	200TM-1	AT2-9	3-1/2"	94.4 mm (3.71875")	93.6 mm (3.6875")	98.4 mm (3.875")	226.6 mm (9.0")	1-1/4"	279.4 mm (11.0")	66.6 mm (2.625")	12.7 mm (.50")	222.2 mm (8.75")
200T-3	200TM-1	AT2-10	4"	104.7 mm (4.125")	93.6 mm (3.6875")	114.3 mm (4.50")	226.6 mm (9.0")	1-1/4"	304.8 mm (12.0")	69.8 mm (2.75")	12.7 mm (.50")	234.9 mm (9.25")
DG200T-1-2	200TM-1	AT2-9	3-1/2"	94.4 mm (3.71875")	93.6 mm (3.6875")	98.4 mm (3.875")	226.6 mm (9.0")	1-1/4"	279.4 mm (11.0")	66.6 mm (2.625")	12.7 mm (.50")	222.2 mm (8.75")

200T SERIES


ITEM #	PART #	DESCRIPTION	ITEM #	PART #	DESCRIPTION
1	NSS	Plug, 1/4" NPT	17	S5-5	Shaft, Throttle 1/2" Dia.
2	AB1-14	Body Ass'y, 3-1/2"	18	F2-9	Fly, 3-11/16" Dia.
	AB1-14L	Body Ass'y, 3-1/2", Left Hand	19	S1-35	Screw, 10-32 x 3/8" SEMS
	AB1-18	Body Ass'y, 4"	20	B3-42	Permaglide Bearing, 1/2" I.D.
3	S1-3	Screw, 10-24 x 5/8 SEMS	21	AL1-11-2	Throttle Stop Ass'y, 1/2" I.D.
4	C1-18	Cover	22	NSS	Throttle Stop Lever, 1/2" I.D.
5	S2-17	Spring, Air Valve	23	S2-15	Spring, Idle Stop Screw
6	S1-12	Screw, 8-32 x 5/16" SEMS	24	S1-21	Stop, Screw 10-32 x 3/4"
7	P2-21	Plate, Back up	25	S1-18	Pin, Screw Throttle Stop
8	D1-16-1	Diaphragm	26	AL1-12-1	Throttle Lever w/screw
	D1-16-2	Diaphragm, Silicone	27	NSS	Throttle Lever
9	R1-17	Ring, Air Valve	28	S1-32	Screw, 1/4" - 20 x 7/8" Hex
10	BV1-12	Air Gas Valve Assembly Comp.	29	G1-29	Gasket, 3-1/2" Flange
11	AV1-12	Valve & Diaphragm Ass'y, Comp.		G1-38	Gasket, 4" Flange
12	G1-31	Gasket, 3-1/2" Air Horn	30	S3-93	Seal, Internal 7/16" Shaft
13	G1-30	Gasket, Throttle body to Mixer			
14	S1-34	Screw, 3/8 - 16 x 1" SEMS			
15	NSS	Throat			
16	NSS	Pin, Throttle Stop			



SECTION 1: CARBURETORS & MIXERS CA200T SERIES

MODEL 200T STANDARD CARBURETOR

MIXERS AND CARBURETORS

PART #	DESCRIPTION
200TM-1	Mixer, 3-1/2" SAE
200TM-1-2	Mixer, 3-1/2" SAE w/ Silicone
200T-1	Carb., 3-1/2" SAE R.H.
200T-1-2	Carb., 3-1/2" SAE R.H. w/ Silicone
200T-1L	Carb., 3-1/2" SAE L.H.
200T-3	Carb., 4" SAE R.H. or L.H.
200T-3-2	Carb., 4" SAE R.H. or L.H. w/ Silicone
200T-602	Carb., Ass'y w/ B3 & S3-93

THROTTLE BODIES

PART #	DESCRIPTION
AT2-9	2-1/2" SAE Flange, 7/16" Shaft w/ permgl. d.
AtT2-8	3" SAE Flange, 7/16" Shaft w/ permgl. d.

THROTTLE SHAFT

PART #	DESCRIPTION
S5-4	Shaft, 7/16" Dia. 7-1/16" Long Std.

AIR-GAS VALVE ASSEMBLIES

PART #	DESCRIPTION
AV1-12	Air Gas Valve Ass'y, STD. Hydrin
AV1-12	Air Gas Valve Ass'y, STD. w/ Silicone
AV1-12-3	Air Gas Valve Ass'y, STD. w/ Ball Check
AV1-1245	Air Gas Valve Ass'y, Feedback Hydrin
AV1-1245-2	Air Gas Valve Ass'y, Feedback Silicone
CV1-12	Air Gas Valve Ass'y, Natural Gas Hydrin
CV1-12-2	Air Gas Valve Ass'y, Natural Gas Silicone
DGAV1-12	Air Gas Valve Ass'y, Digester Gas Hydrin
DGAV1-12-2	Air Gas Valve Ass'y, Digester Gas Silicone
LH-AV1-12-2	Air Gas Valve Ass'y, Low heat Gas Silicone

LEVERS

PART #	DESCRIPTION
AL1-11-1	Stop Assembly 7/16" mounting I.D.
AL1-12-1	Assembly, 3-1/16" Long
Al1-12-3	Assembly, 2-5/16" Long STD.

RETURN SPRINGS

PART #	DESCRIPTION
AS2-50-4	7/16" Throttle Return

BRACKET ASSEMBLY

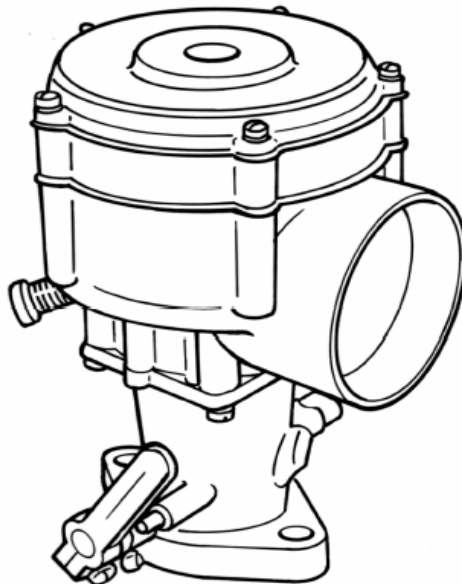
PART #	DESCRIPTION
AB4-4	Bracket, Boden Wire

ADAPTERS

PART #	DESCRIPTION
E1-7	Air Horn, 45° elbow 4" Dia.
E1-8	Air Horn, 45° elbow 3-1/2" Dia.

RING SPACER

PART #	DESCRIPTION
R1-30	Ring, Air Valve Spacer

MODEL 210 STANDARD CARBURETOR**TECHNICAL DESCRIPTION**

The IMPCO Model 210 can be used with methane and propane based fuels. All mixers and complete carburetors use a standard air-gas metering valve that provides adequate fuel mixture range with the appropriate positive (Natural Gas) or negative (Propane) vaporizer / regulator.

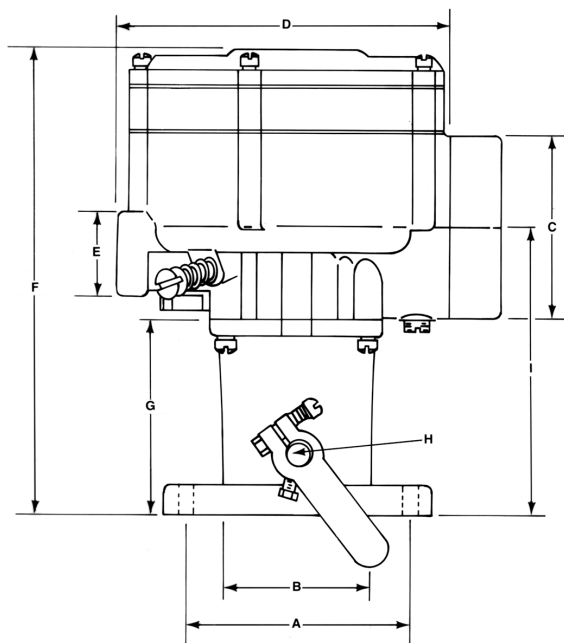
The 210 Series carburetor / mixer is designed primarily for one and two cylinder engines where severe intake manifold pressure pulsations are present. However, its use is not limited to these applications. Improved mixture control and air-gas valve durability can also benefit other applications in tuned intake systems where resonant pressure changes could adversely affect a standard 200/225 Series assembly.

It is possible to use other air-gas metering valves and body assemblies from the 200/225 Series retaining the original spacer. Please note that the diaphragm is different from the standard 200/225 Series and may have to be ordered as a separate component part.

TECHNICAL SPECIFICATIONS

Fuel Type.....	Methane / Propane
Maximum Fuel Inlet Pressure.....	8.0 in H ₂ O
Maximum Boost Pressure.....	5.0 psi
Air Flow Capacity.....	345 cfm @ 2.0 in Hg manifold (derate 15% for methane)
Horsepower.....	215 hp @ 2,500 BTU per cubic feet
Operating Temperature.....	-40° C to 120° C (-40° F to 250° F)
Materials	
Body.....	Aluminum
Diaphragm.....	Hydrin (Standard), Silicone (Optional)

DIMENSIONS

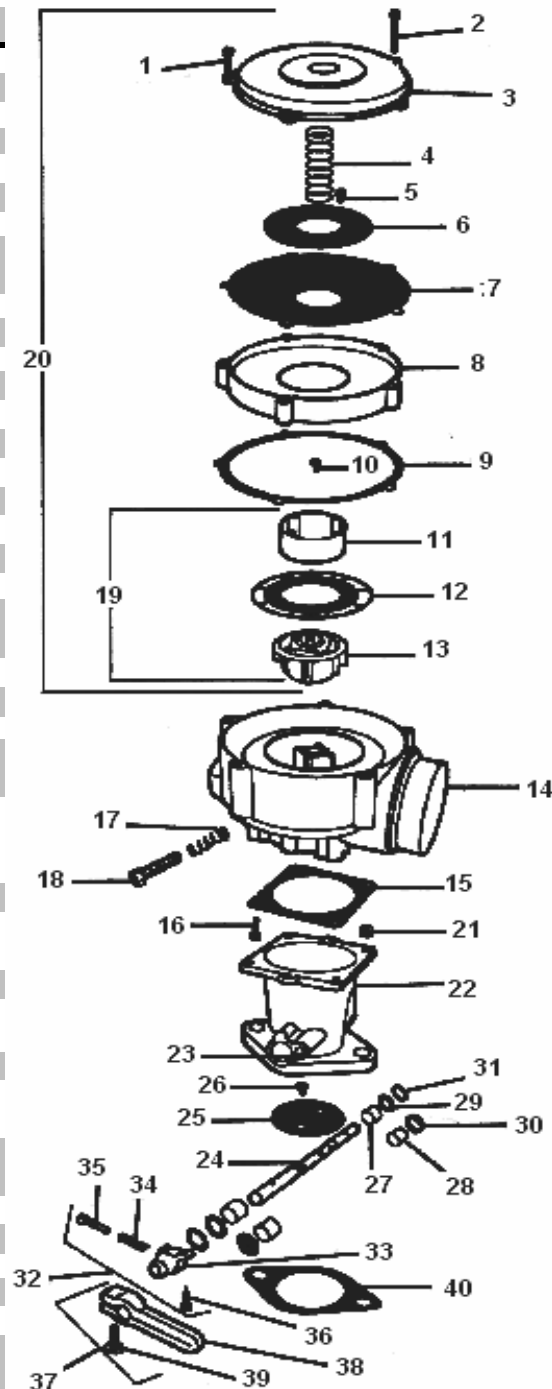


STD. CARB.	MIXER	THRTL. BODY	SAE FLANGE	CTR. TO CTR. BOLT SPACING	BORE	MIXER AIR HORN DIA.	OVERALL WIDTH	NPT INLET	OVERALL HEIGHT	THRTL. BODY HEIGHT	THRTL. SHAFT DIA.	FLANGE TO CTR. OF AIR HORN
210-4	210M-1	AT2-5	1-3/4"	84.1 mm (3.313")	49.2 mm (1.938")	66.7 mm (2.625")	165 mm (6.500")	3/4"	206 mm (8.125")	82.6 mm (3.250")	9.5 mm (0.375")	123 mm (4.844")
210-6	210M-2	AT2-6	2"	90.5 mm (3.563")	55.6 mm (2.188")	77.8 mm (3.063")	165 mm (6.500")	3/4"	206 mm (8.125")	82.6 mm (3.250")	9.5 mm (0.375")	123 mm (4.844")
210-8-2	210M-2-2	AT2-5	1-3/4"	84.1 mm (3.313")	49.2 mm (1.938")	77.8 mm (3.063")	165 mm (6.500")	3/4"	206 mm (8.125")	82.6 mm (3.250")	9.5 mm (0.375")	123 mm (4.844")

MODEL 210 STANDARD CARBURETOR

ITEM #	PART #	DESCRIPTION
1	S1-3	Screw, 10-24 x 5/8" SEMS (2)
2	S1-41	Screw, 10-24 x 1-3/8" SEMS (3)
3	NSS	Cover
4	S2-17	Spring, air valve
5	S1-12	Screw, 8-32 x 5/16" SEMS (4)
6	P2-13	Plate, backup
7	D1-12	Diaphragm
	D1-12-2	Diaphragm, silicone
8	NSS	Plate, divider
9	G1-20	Gasket, plate to body
10	S1-12	Screw, 8-32 x 5/16" SEMS (4)
11	NSS	Spacer
12	R1-17	Ring, air valve
13	BV1-12	Valve ass'y
14	AB1-11-2	Body ass'y, 77.8 mm (3.06") Air Horn
15	G1-21	Gasket, throttle body to mixer
16	S1-19	Screw, 12-24 x 5/8" SEMS (4)
17	S2-16	Spring, idle screw
18	NSS	Idle screw
19	AS3-21	Valve & spacer ass'y
20	A210-DP	Dash Pot Ass'y
	A210-DP-2	Dash Pot Ass'y, Silicone
21	NSS	Plug, 1/8 NPT
22	NSS	(Refer to Throttle body charts)
23	NSS	Pin, throttle stop (5)
24	S5-2	Throttle shaft, 7.9 mm (0.31") dia.
	S5-3	Throttle shaft, 9.5 mm (0.38") dia.
25	F2-4	Butterfly, 38.1 mm (1.50")
	F2-5	Butterfly, 44.5 mm (1.75")
	F2-6	Butterfly, 50.8 mm (2.00")
26	S1-12	Screw, 8-32 x 5/16" SEMS (2)
27	B2-12	Bearing, Oilite, 7.9 mm (0.31") I.D. (2)
	B2-13	Bearing, Oilite, 9.5 mm (0.38") I.D. (2)
28	B2-7	Bearing, needle, 7.9 mm (0.31") I.D. (2), opt.
29	S3-9	Seal, 7.9 mm (0.31") shaft (2)
	S3-11	Seal, 9.5 mm (0.38") shaft (2)
30	S3-20	Seal, internal, 9.5 mm (0.38") I.D., optional
31	R1-9	Ring, seal retainer, 7.9 mm (0.31") shaft (2)
	R1-8	Ring, seal retainer, 9.5 mm (0.38") shaft (2)
32	AL1-8-2	Throttle stop ass'y, 7.9 mm (0.31")
	AL1-10	Throttle stop ass'y, 9.5 mm (0.38")
33	NSS	Throttle stop lever
34	S2-15	Spring, stop screw
35	S1-21	Stop screw, 10-32 x 3/4"
36	S1-18	Pin screw, throttle stop
37	AL1-7-1	Throttle lever, w/ S1-17, L1-7-1
	AL1-9-1	Throttle lever, w/ S1-26, L1-9-1
38	NSS	Throttle lever
39	NSS	Screw, 10-24 x 5/8"
	NSS	Screw, 12-24 x 5/8"
40	G1-19	Gasket, 38.1 mm (1.50") flange
	G1-23	Gasket, 44.5 mm (1.75") flange
	G1-24	Gasket, 50.8 mm (2.00") flange

NSS = Not Serviced Separately



MODEL 210 STANDARD CARBURETOR

MIXERS, LP GAS (STANDARD)

PART #	DESCRIPTION
210M-2	77.8 mm (3.06") Air Horn
210M-2-2	77.8 mm (3.06") Air Horn, w/ silicone diaphragm

THROTTLE BODIES

PART #	DESCRIPTION
AT2-4-2	Standard, 38.1 mm (1.50") flange, 7.9 mm (0.31") shaft dia.
AT2-4-5	38.1 mm (1.50") flange, 7.9 mm (0.31") shaft dia., w/ needle bearings
AT2-5	Standard, 44.5 mm (1.75") flange, 9.5 mm (0.38") shaft dia.
AT2-5-2	44.5 mm (1.75") flange, 9.5 mm (0.38") shaft dia., w/ needle bearings
AT2-6	Standard, 50.8 mm (2.00") flange, 9.5 mm (0.38") shaft dia., center bore
AT2-6-3	50.8 mm (2.00") flange, 9.5 mm (0.38") shaft dia., center bore, w/ needle bearings & internal seal
AT2-11-1	Standard, 31.8 mm (1.25") flange, 11.1 mm (0.44") shaft dia.
AT2-12	Standard, 38.1 mm (1.50") flange, 11.1 mm (0.44") shaft dia.
AT2-13-1	Standard, Holley, 11.1 mm (0.44") shaft dia.
AT2-13-2	Holley 11.1 mm (0.44")

THROTTLE SHAFTS

PART #	DESCRIPTION
S5-2	7.9 mm (0.31") dia., 127 mm (5.00") long, standard on AT2-4-2
S5-3	9.5 mm (0.38") dia., 138 mm (5.44") long, standard on AT2-5, AT2-6
S5-7	7.9 mm (0.31") dia., 133 mm (5.25") long
S5-11	7.9 mm (0.31") dia., 156 mm (6.13") long

DASHPOT ASSEMBLIES

PART #	DESCRIPTION
A210-DP	For Model 210 mixer
A210-DP-2	For Model 210 mixer, w/ silicone diaphragm

SPACERS

PART #	DESCRIPTION
AS3-10	12.7 mm (0.500") tall, used to rotate mixer Air Horn 90°
AS3-43	4.8 mm (0.188") tall, used to rotate mixer Air Horn 90°
AS3-45	Spacer ass'y, 20.6 mm (0.81") high

LEVERS

PART #	DESCRIPTION
AL1-7-1	Ass'y, 44.5 mm (1.75") long (std. on AT2-3, AT2-4-1, AT2-4-3, AT2-16-1)
AL1-7-2	Ass'y, w/ 6.4 mm (0.25") ball stud, 44.5 mm (1.75") long
AL1-7-3	Ass'y, 33.3 mm (1.31") long
AL1-7-4	Ass'y, w/ swivel, 44.5 mm (1.75") long
AL1-8-2	Stop ass'y, 7.9 mm (0.31") mounting I.D., 19.1 mm (0.75") long
AL1-8-4	Stop ass'y, 6.4 mm (0.25") mounting I.D., cutdown, 9.5 mm (0.38") long
AL1-9-1	58.7 mm (2.31") long (standard on AT2-5, AT2-6)
AL1-10	Lever stop ass'y, 9.5 mm (0.38") mounting I.D., 22.2 mm (0.88") long, standard on AT2-5, AT2-6
AL1-33	Ass'y, shaft clamp, 7.9 mm (0.31") mounting I.D., 49.2 mm (1.94") long

NOTES:

· AL1-7-1 through AL1-7-4 levers used w/ AL1-8 lever stop.

· AL1-9 levers used w/ AL1-10 lever stop.

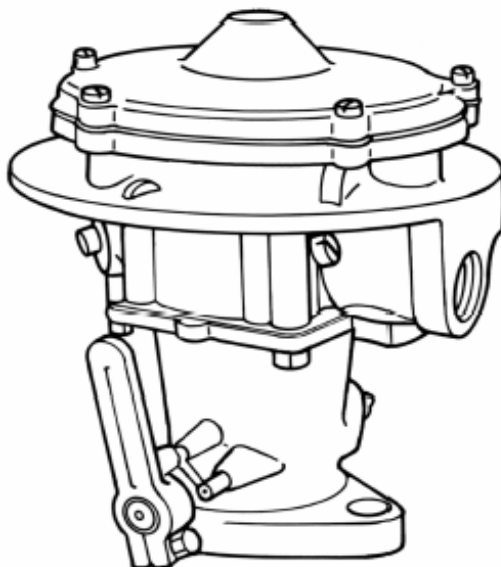
· See Small Parts & Accessories section of catalog for other optional levers.

ADAPTERS

PART #	DESCRIPTION
A3-28	200M to 3-1/16" hose
A3-30	200M to 2-5/8" hose
AA3-19	225M to Holley 2B throttle body
AA3-32-2	200M to CA100 throttle body
AA3-47-2	200M to CA425 throttle body
AA3-48-2	200M to CA425 hose elbow

RETURN SPRINGS

PART #	DESCRIPTION
AS2-50-2	7.9 mm (0.31") throttle return
AS2-50-3	9.5 mm (0.38") throttle return

MODEL 225 STANDARD CARBURETOR**TECHNICAL DESCRIPTION**

The Model 225 carburetor is a single-diaphragm air valve carburetor / mixer. It offers a down-draft air inlet that can be used for remote air filtration or open-element type air filters. This unit is available for Propane, Natural Gas, and Digester Gas applications. It has been successfully used for other hydrocarbon based vapor fuels as low as 500 BTU.

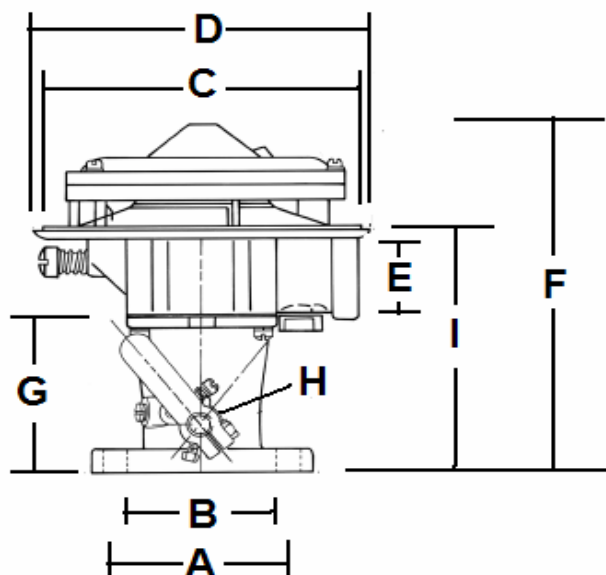
The Model 225 is also available for feedback applications with the 'FB' designation. These FB mixers are available in tamper resistant configuration, indicated by the part number suffix "-TR" on the part number. It is also possible to convert standard units to a tamper resistant configuration through the use of a retrofit kit.

Two separate air valve vacuum supplies are available with this mixer. Additional low speed mixture control can be obtained to lean air-fuel mixtures with optional shims. Check the Accessories section for more information. All 225DG series mixers reduce airflow by 30%.

TECHNICAL SPECIFICATIONS

Fuel Type	Methane / Propane (550 - 2,500 BTU)
Maximum Fuel Inlet Pressure	8.0 in H ₂ O
Maximum Boost Pressure	5.0 psi
Air Flow Capacity.....	80 cfm @ 2.0 in Hg manifold (derate 15% for methane, 30% for digester gas)
Horsepower Rating	237 hp @ 2,500 BTU per cubic feet
Operating Temperature.....	-40°C to 120°C (-40°F to 250°F)
Materials	
Body	Aluminum
Diaphragm	Hydrin (Standard), Silicone (Optional)

DIMENSIONS

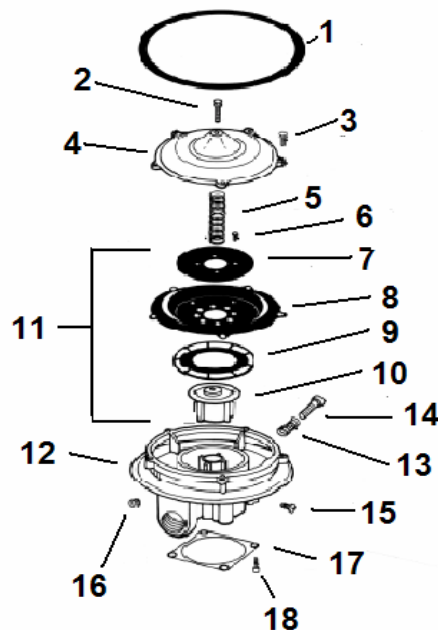


			A	B	C	D	E	F	G	H	I
MIXER	THRTL. BODY	SAE FLANGE	CTR. TO CTR. BOLT SPACING	BORE	MIXER AIR HORN DIA.	OVERALL WIDTH	NPT FUEL	OVERALL HEIGHT	THRTL. BODY HEIGHT	THRTL. SHAFT DIA.	FLANGE TO AIR HORN FLANGE
225M	AT2-4-2	1-1/2"	74.6 mm (2.938")	42.9 mm (1.688")	148 mm (5.813")	159 mm (6.250")	3/4"	184 mm (7.250")	69.9 mm (2.750")	7.9 mm (0.313)	114 mm (4.500")
225M	AT2-5	1-3/4"	84.1 mm (3.313")	42.9 mm (1.688")	148 mm (5.813")	159 mm (6.250")	3/4"	191 mm (7.500")	82.6 mm (3.250")	9.5 mm (0.375")	127 mm (5.000")

MODEL 225 STANDARD CARBURETOR

ITEM #	PART #	DESCRIPTION
1	G1-73	Gasket, mixer to Air Horn
2	S1-47	Screw, 1/4" -20 x 1" SEMS
3	S1-3	Screw, 10 -24 x 5/8" SEMS (5)
4	NSS	Cover, air valve
5	S2-17	Spring, air valve
6	S1-12	Screw, 8-32 x 5/16" SEMS (4)
7	P2-21	Plate, backup
8	D1-16-1	Diaphragm
	D1-16-2	Diaphragm, Silicone
9	R1-17	Ring, air valve
10	BV1-12	Air-gas valve ass'y, LPG
	DV1-12	Air-gas valve ass'y, NG
11	AV1-12	Air-gas valve ass'y, complete w/ diaphragm, LPG
	CV1-12	Air-gas valve ass'y, complete w/ diaphragm, NG
12	NSS	Body ass'y
13	S2-16	Spring, idle screw
14	NSS	Idle screw
15	S1-69	Screw, 1/4" -28 x 5/16" (3)
16	NSS	Plug, 1/8 NPT, brass
17	G1-21	Gasket, throttle body to mixer
18	S1-19	Screw, 12-24 x 5/8" SEMS

NSS = Not Serviced Separately





SECTION 1: CARBURETORS & MIXERS 225 SERIES

MODEL 225 STANDARD CARBURETOR

MIXERS, LP GAS (STANDARD)

PART #	DESCRIPTION
225M	For NG
225M-2	For NG, w/ silicone diaphragm
FB225M	For feedback
FB225M-2	For feedback, w/ silicone diaphragm
FB225M-10	Carb. Ass'y, w/ Vic Lift w/ FB Air Valve
FB225M-F6T49	Mixer assembly, Model 225 Tamper Rest.
CA225M	For LPG
CA225M-2	For LPG, w/ silicone diaphragm
CA225M-10-2	Mixer assembly, w/ Vic. Lift & Silicone

THROTTLE BODIES (ONE BARREL)

PART #	DESCRIPTION
AT2-4-2	Standard, 38.1 mm (1.50") flange, 7.9 mm (0.31") shaft dia.
AT2-4-5	38.1 mm (1.50") flange, 7.9 mm (0.31") shaft dia., w/ needle bearings
AT2-5	Standard, 44.5 mm (1.75") flange, 9.5 mm (0.38") shaft dia.
AT2-6	Standard, 50.8 mm (2.00") flange, 9.5 mm (0.38") shaft dia., center bore
AT2-6-3	50.8 mm (2.00") flange, 9.5 mm (0.38") shaft dia., center bore, w/ needle bearings & internal seal

* All throttle bodies are offset 0.8 mm (0.031") unless otherwise noted.

THROTTLE BODIES (TWO BARREL)

PART #	DESCRIPTION
AT2-11-1	Standard 31.8 mm (1.25") flange, 11.1 mm (0.44") shaft dia.
AT2-12	Standard 38.1 mm (1.50") flange, 11.1 mm (0.44") shaft dia.
AT2-13-1	Standard, Holley, 11.1 mm (0.44") shaft dia.
AT2-13-2	Holley, 11.1 mm (0.44") shaft dia., w/ needle bearings
G1-52	Gasket, Adapter Holley A3-19
AB1-24-1	Body Ass'y, 2B, T/B (No FL)

* All throttle bodies are offset 8.8 mm (0.031") unless otherwise noted.

THROTTLE SHAFTS

PART #	DESCRIPTION
S5-2	7.9 mm (0.31") dia., 127 mm (5.00") long, standard on AT2-4-2
S5-3	9.5 mm (0.38") dia., 138 mm (5.44") long, standard on AT2-5, AT2-6
S5-4	11.1 mm (0.44") dia., 179 mm (7.06") long, standard on 2B throttle bodies
S5-7	7.9 mm (0.31") dia., 133 mm (5.25") long
S5-11	7.9 mm (0.31") dia., 156 mm (6.13") long

MODEL 225 STANDARD CARBURETOR**ADAPTERS**

PART #	DESCRIPTION
A2-2	Air Horn, 130 mm (5.13") dia.
A2-3	Air Horn, 66.7 mm (2.63") dia.
A2-6	Air Horn, 77.8 mm (3.06") dia.
AA3-19	200M to Holley 2B throttle body
A3-28	200M to 3-1/16" hose
A3-30	200M to 2-5/8" hose
AA3-32-2	200M to CA100 throttle body
AA3-47-2	200M to CA425 throttle body
AA3-48-2	200M to CA425 hose elbow
A3-124-2	Adapter 125 Solex TB Modified
AA2-21	Adapt Air Horn 90° by 4" to 225

LEVERS

PART #	DESCRIPTION
AL1-7-1	Ass'y 44.5 mm (1.75") long (std. on AT2-3, AT2-4-1, AT2-4-3, AT2-16-1)
AL1-7-2	Ass'y, w/ 64 mm (0.25") ball stud, 44.5 mm (1.75") long
AL1-7-3	Ass'y 33.3 mm (1.31") long (std. on AT2-1, AT2-2, AT2-23)
AL1-7-4	Ass'y, w/ swivel, 44.5 mm (1.75") long
AL1-8-2	Stop ass'y, 7.9 mm (0.31") mounting I.D., 19.1 mm (0.75") long (std. on AT-3, AT2-4-1, AT2-4-3, AT2-16-1, AT2-23)
AL1-8-4	Stop ass'y, 6.4 mm (0.25") mounting I.D., cutdown, 9.5 mm (0.38") long
AL1-9-1	58.7 mm (2.31") long (standard on AT2-5, AT2-6)
AL1-10	Lever stop ass'y, 9.5 mm (0.38") mounting I.D., 22.2 mm (0.88") long, standard on AT2-5, AT2-6
AL1-11-1	Lever stop ass'y, 11.1 mm (0.44") mounting I.D., 25.4 mm (1.00") long, standard on AT2-11-1, AT2-12, AT2-13-1, AT2-15
AL1-12-1	77.8 mm (3.06") long
AL1-12-3	58.7 mm (2.31") long, standard on AT2-11-1, AT2-12, AT2-13-1, AT2-15
AL1-27-1	Ass'y, floating 7.9 mm (0.31") mounting I.D., 54.0 mm (2.13") long, w/ AC2-12
AL1-27-2	Ass'y, floating 7.9 mm (0.31") mounting I.D., 54.0 mm (2.13") long, w/ AC2-12, w/ swivel
AL1-33	Ass'y, shaft clamp, 7.9 mm (0.31") mounting I.D., 49.2 mm (1.94") long
AL1-46	Ass'y, steel shaft clamp, 7.9 mm (0.31") mounting I.D., 47.6 mm (1.88") long

NOTES:

- AL1-7-1 through AL1-7-4 levers used w/ AL1-8 lever stop.
- AL1-9 levers used w/ AL1-10 lever stop.
- AL1-12 levers used w/ AL1-11 lever stop.
- See Accessories section of catalog for other optional levers.



SECTION 1: CARBURETORS & MIXERS 225 SERIES

MODEL 225 STANDARD CARBURETOR

AIR-GAS VALVES

PART #	DESCRIPTION
AV1-12	Standard, w/ Hydrin diaphragm
AV1-12-2	Standard, w/ Silicone diaphragm
AV1-12-3	For 1 & 2 cylinder engines, w/ Hydrin diaphragm & ball check ass'y
AV1-12-3-2	For 1 & 2 cylinder engines, w/ Silicone diaphragm & ball check ass'y
AV1-12-6	Rich, w/ Hydrin diaphragm
AV1-1245	Standard feedback, w/ Hydrin diaphragm
AV1-1245-2	Standard feedback, w/ Silicone diaphragm
AV1-1245-2-4	Air Valve Silicone 95 Min Test
DG-AV1-12	For digester gas (550-750 BTU), w/ Hydrin diaphragm
DG-AV1-12-2	For digester gas (550-750 BTU), w/ Silicone diaphragm
LH-AV1-12-2	For low heat gas (750-950 BTU), w/ Silicone diaphragm
CV1-12	For natural gas, w/ Hydrin diaphragm
CV1-12-2	For natural gas, w/ Silicone diaphragm

RETURN SPRINGS

PART #	DESCRIPTION
AS2-50-2	7.9 mm (0.31") throttle return
AS2-50-3	9.5 mm (0.38") throttle return
AS2-50-4	11.1 mm (0.44") throttle return

SPACERS

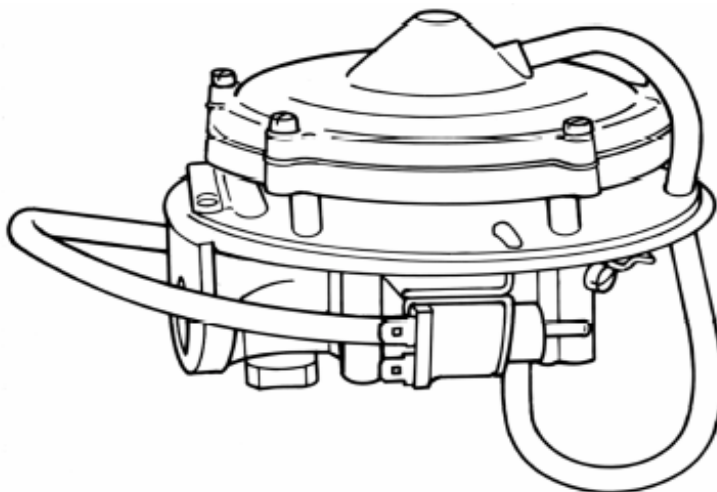
PART #	DESCRIPTION
AS3-45	Spacer ass'y, 20.6 mm (0.81") high
AS3-10	12.7 mm (0.500") tall, used to rotate mixer Air Horn 90°
AS3-43	4.8 mm (0.188") tall, used to rotate mixture Air Horn 90°

RING SPACERS

PART #	DESCRIPTION
R1-30	Ring, air valve spacer, for AV1-12 (to lean mixture)

AIR CLEANERS

PART #	DESCRIPTION
AF1-17	Offset, 170 L/s (350 cfm), 349 mm (13.75") O.D., 87.3 mm (3.44") high
AF1-17-2	Offset, 260 L/s (550 cfm), 356 mm (14.00") O.D., 106 mm (4.19") high

MODEL 225M-10 STANDARD CARBURETOR**TECHNICAL DESCRIPTION**

The Model 225M-10 is a vacuum lift mixer designed to reduce inlet restrictions in dual fuel installations. Inlet restrictions cannot be tolerated with a conventional gasoline carburetor as they will cause it to run rich, similar to the action of a choke system.

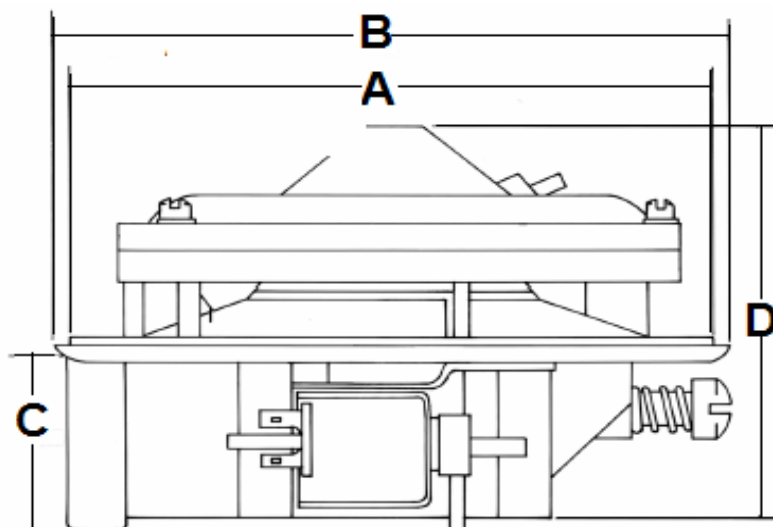
The 225M-10 provides an electrically-operated solenoid that directs air valve vacuum to the top diaphragm chamber when gasoline operation is desired. This provides full air valve lift reducing air inlet restriction to a minimum. This unit has also been used to reduce inlet restrictions on fuel injected engines, as well where physical limitations of space have resulted in a mixer selection slightly smaller than recommended or maximum volumetric efficiency is desired.

The 225M-10 is available with standard type air-gas metering valves and feedback control systems. It is possible to use other 200/225 series air valves with some modification using the P3-10 BB shot plugs.

TECHNICAL SPECIFICATIONS

Fuel Type.....	Methane / Propane (550 - 2,500 BTU)
Maximum Fuel Inlet Pressure	8.0 in H ₂ O
Maximum Boost Pressure	5.0 psi
Air Flow Capacity.....	380 cfm @ 2.0 in Hg manifold (derate 15% for methane, 30% for digester gas)
Horsepower Rating	237 hp @ 2,500 BTU per cubic feet
Operating Temperature.....	-40°C to 120°C (-40°F to 250°F)
Materials	for methane, 30% for digester gas)
Body	Aluminum
Diaphragm	Hydrin (Standard), Silicone (Optional)

DIMENSIONS



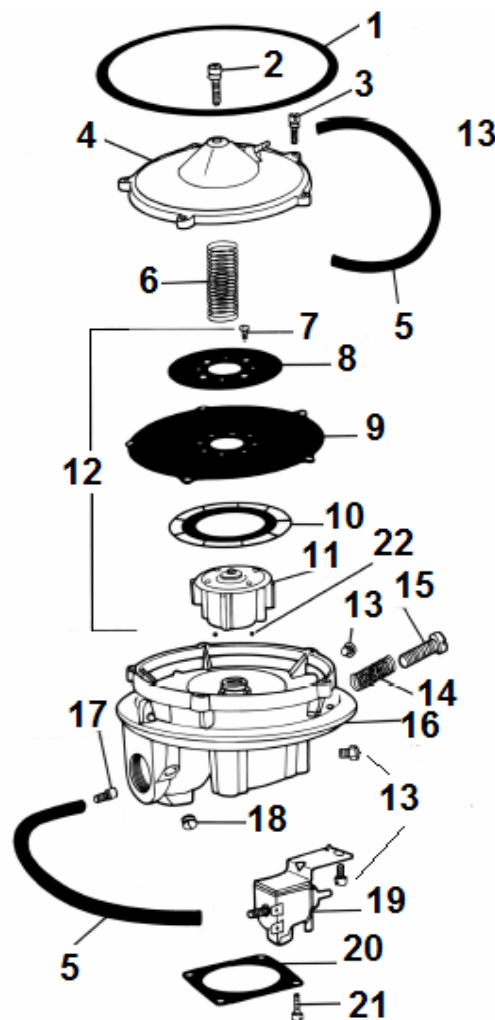
	A	B	C	D
MIXER	MIXER AIR HORN DIAMETER	OVERALL WIDTH	FUEL INLET	OVERALL HEIGHT
CA225M-10-2	130 mm (5.125")	159 mm (6.250")	3/4 NPT	121 mm (4.750")

* All Model 225M-10 Series mixers have identical dimensions.

MODEL 225-10 STANDARD CARBURETOR

ITEM #	PART #	DESCRIPTION
1	G1-73	Gasket, mixer to Air Horn
2	S1-47	Screw, 1/4" -20 x 1" SEMS
3	S1-3	Screw, 10 -24 x 5/8" SEMS (5)
4	NSS	Cover, ass'y, air valve
5	NSS	Hose
6	S2-17	Spring, air valve
7	S1-12	Screw, 8-32 x 5/16" SEMS (4)
8	P2-21	Plate, backup
9	D1-16-1	Diaphragm
	D1-16-2	Diaphragm, silicone
10	R1-17	Ring, air valve
11	NSS	Air-gas valve ass'y
12	NSS	Air-gas valve ass'y, complete w/ diaphragm
13	S1-69	Screw, 1/4" -28 x 5/16" (3)
14	S2-16	Spring, idle screw
15	NSS	Screw, idle
16	NSS	Body ass'y
17	F4-40	Fitting, 1/4" -28 x 5/16") hose
18	NSS	Plug, 1/8 NPT
19	VCS	Vacuum lift solenoid*
20	G1-21	Gasket, throttle body to mixer
21	S1-19	Screw, 12-24 x 5/8"
22	NSS	BB shot plugs
23	NSS	Wire, terminal

NSS = Not Serviced Separately





SECTION 1: CARBURETORS & MIXERS 225-10 SERIES

MODEL 225-10 STANDARD CARBURETOR

MIXERS

PART #	DESCRIPTION
CA225M-10-2	For LPG, w/ vacuum lift, & silicone diaphragm
FB225M-10	For feedback

ADAPTERS

PART #	DESCRIPTION
A2-2	Air Horn, 130 mm (5.13") dia.
A2-3	Air Horn, 66.7 mm (2.63") dia.
A2-6	Air Horn, 77.8 mm (3.06") dia.
AA3-19	200M to Holley 2B throttle body
A3-28	200M to 3-1/16" hose
A3-30	200M to 2-5/8" hose
AA3-32-2	200M to CA100 throttle body
AA3-47-2	200M to CA425 hose elbow
AA3-48-2	200M to CA425 hose elbow

AIR GAS VALVES

PART #	DESCRIPTION
AV1-1245	Standard feedback, w/ Hydrin diaphragm
AV1-1245-2	Standard feedback, w/ Silicone diaphragm

AIR CLEANERS

PART #	DESCRIPTION
AF1-17	Offset, 170 L/s (350 cfm), rain hat, 349 mm (13.75") O.D., 87.3 mm (3.44") high
AF1-17-2	Offset, 260 L/s (550 cfm), 356 mm (14.00") O.D., 106 mm (4.19") high

SPACERS

PART #	DESCRIPTION
AS3-45	Spacer ass'y, 20.6 mm (0.81") high

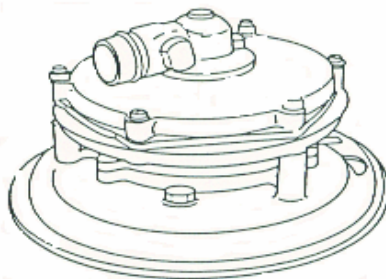
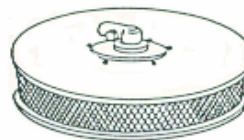
RING SPACERS

PART #	DESCRIPTION
R1-30	Ring, air valve spacer, for AV1-12 (to lean mixture)

MODEL 225 SERIES MIXERS/CARBURETORS

CARBURETOR DESCRIPTION

PART #	DESCRIPTION
CA225M-10-2	Dual fuel, vacuum lift with silicone diaphragm

MODEL 300A ACCESSORIES**300A Mixer Without Air Cleaner****Mixer With 10" Air Cleaner****Mixer With 14" Air Cleaner**

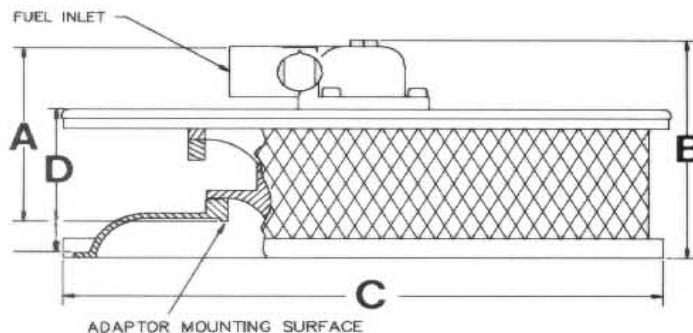
The Model 300A carburetor is a single-diaphragm air valve carburetor / mixer. It offers a down-draft air inlet that can be used for remote air filtration or open-element type air filters. This unit is available for Propane, and Natural Gas applications. The 300A has numerous adapters to allow the installer to fit the 300A into most underhood vehicle applications.

The Model 300A is also available for feedback applications with the 'FB' designation. The 300A can also be equipped with a cam mechanism to allow the air valve to be raised to its full open position to minimize any restriction in the base vehicle air stream. Optional air cleaner assemblies are also available for engines which require higher CFM air flow.

TECHNICAL SPECIFICATIONS

Fuel Type	CNG / Propane
Maximum Fuel Inlet Pressure	8.0 in H ₂ O
Air Flow Capacity (1 & 20).....	348 cfm @ 1.5 in Hg manifold
Air Flow Capacity (50 & 70).....	432 cfm @ 1.5 in Hg manifold
Horsepower Rating (1 & 20).....	217 hp @ 2,500 BTU per cubic feet
Horsepower Rating (50 & 70).....	270 hp @ 2,500 BTU per cubic feet
Operating Temperature.....	-40°C to 120°C (-40°F to 250°F)
Materials	
Body	Aluminum
Diaphragm	Hydrin (Standard), Silicone (Optional)

DIMENSIONS



	A	B	C	D					
MIXER	MOUNTING SURFACE TO TOP OF FUEL INLET	OVERALL HEIGHT	MIXER ONLY OVERALL WIDTH	AIR CLEANER HEIGHT	NO AIR FILTER	10" AIR FILTER	MICRO-SWITCH VACUUM VALVE	GAS VALVE	AIR VALVE DIAPHRAGM (B-BLACK HYDRIN) S-SILICONE)
CA300A-M	88.9 mm (3.5")	104.7 mm (4.125")	206.3 mm (8.125")	69.8 mm (2.75")	x			V2-11	B
CA300A-M-2	88.9 mm (3.5")	104.7 mm (4.125")	206.3 mm (8.125")	69.8 mm (2.75")	x				S
CA300A-M-3	88.9 mm (3.5")	104.7 mm (4.125")	206.3 mm (8.125")	69.8 mm (2.75")		x			B
CA300A-M-3-2	88.9 mm (3.5")	104.7 mm (4.125")	206.3 mm (8.125")	69.8 mm (2.75")	x		x		B
CA300A-M-4-2	88.9 mm (3.5")	104.7 mm (4.125")	206.3 mm (8.125")	69.8 mm (2.75")	x		x		S
CA300AM-50-2	88.9 mm (3.5")	104.7 mm (4.125")	206.3 mm (8.125")	69.8 mm (2.75")		x	x		B
CA300AM-50-3	88.9 mm (3.5")	104.7 mm (4.125")	206.3 mm (8.125")	69.8 mm (2.75")	x			V2-39	S
CA300AM-50-4	88.9 mm (3.5")	104.7 mm (4.125")	206.3 mm (8.125")	69.8 mm (2.75")	x		x	V2-39	S
FB300A-M-2	88.9 mm (3.5")	104.7 mm (4.125")	206.3 mm (8.125")	69.8 mm (2.75")	x			V2-49	S
FB300A-M-4-2	88.9 mm (3.5")	104.7 mm (4.125")	206.3 mm (8.125")	69.8 mm (2.75")	x			V2-50	S
FB300AM-50-2	88.9 mm (3.5")	104.7 mm (4.125")	206.3 mm (8.125")	69.8 mm (2.75")	x		x		S
FB300AM-50-4	88.9 mm (3.5")	104.7 mm (4.125")	206.3 mm (8.125")	69.8 mm (2.75")	x		x		B
FB300AM-50-4TP	88.9 mm (3.5")	104.7 mm (4.125")	206.3 mm (8.125")	69.8 mm (2.75")	x		x		B

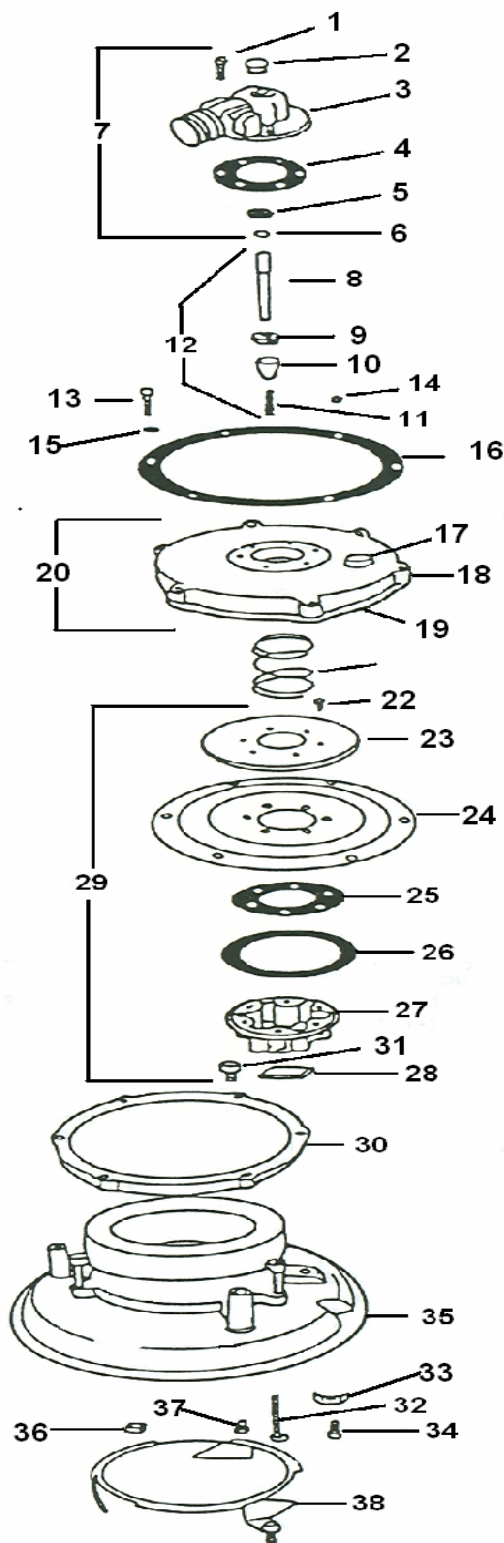
MODEL 300A 1 AND 50

ITEM #	PART #	DESCRIPTION
1	S1-3	† Screw, 10-24 x 5/8" SEMS (3)
2	P3-2	Plug, idle adjustment
3	AE1-4	Elbow with power adjustment: E1-4, V2-9, W1-12
4	NSS	*† Gasket, gas elbow
5	R1-9	*† Ring, seal retainer
6	S3-3	*† Seal, idle screw
7	BE1-4-1	Elbow ass'y, complete: P3-2, AE1-4, R1-9, S3-3
8	S1-15	Screw, idle adjustment
9	S4-20	† Seat, gas valve (CA300A-50 only)
10	V2-49	Valve Gas Mixer FB300A
	V2-50	Valve Gas Mixer FB300A
11	S2-3	Spring, gas valve
12	AV2-11	† Gas valve ass'y, complete
	AV2-39	Gas valve ass'y, complete
13	NSS	† Screw 10-24 x 1" (3)
14	NSS	† Nut, dome 10-24 (3)
15	NSS	† Washer, No.10 light flat (6)
16	G1-1	*† Gasket, filter cover
17	NSS	† Rivet, vent valve
18	NSS	† Valve cover vent
19	NSS	Cover, diaphragm (CA300A only)
20	AC1-2	Cover ass'y., diaphragm with vent valve
	AC1-2-3	† Cover ass'y., diaphragm with vent valve
21	S2-2	† Spring, air valve
22	S1-12	Screw, 8-32 x 5/16" SEMS (6)
23	P2-1	Plate, diaphragm backup
24	D1-1-1	* Diaphragm, air valve
	D1-1-2	* Diaphragm, air valve, silicone
25	G1-15	* Gasket, air valve
26	R1-2	Ring, air valve
27	NSS	Valve, air metering: V1-10, L1-3, B3-24
28	NSS	* Lock, nylon idle adjustment
29	AV1-10-1	† Air valve ass'y, complete with diaphragm
	AV1-10-2	† Air valve ass'y, complete with diaphragm
30	NSS	Ring, diaphragm support (CA300A only)
31	S1-5	Screw, 1/4"-20 x 5/8" hex head SEMS (3)
32	NSS	† Screw, 10-24 x 1-1/2" SEMS (3)
33	NSS	Clamp, Boden wire
34	NSS	Screw, 10-32 x 5/8" hex head
35	NSS	Base ass'y, complete
36	NSS	Nut, square, 1/4"-20
37	S1-69	Screw, 1/4"x 5/16" (plug)
38	AC2-2	Cam ass'y: C2-2, W1-2, S1-7

NSS = NOT SERVICED SEPARATELY

* Indicates components of minor repair kit.

† Indicates components of major repair kit.



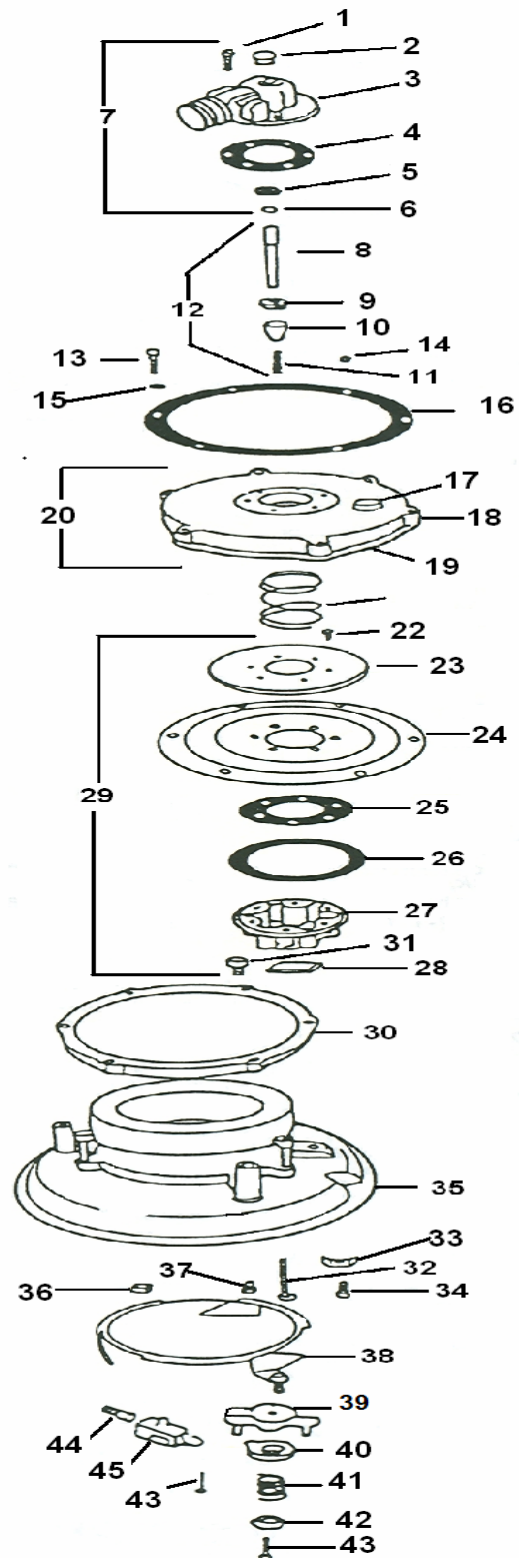
MODEL 300A SERIES 20 AND 70

ITEM #	PART #	DESCRIPTION
1	S1-3	† Screw, 10-24 x 5/8" SEMS (3)
2	P3-2	Plug, idle adjustment
3	AE1-4	Elbow with power adjustment
4	NSS	*† Gasket, gas elbow
5	R1-9	*† Ring, seal retainer
6	S3-3	*† Seal, idle screw
7	BE1-4-1	Elbow ass'y, complete: P3-2, AE1-4, R1-9, S3-3
8	S1-15	Screw, idle adjustment
9	S4-20	† Seat, gas valve (CA300A-50 only)
10	V2-49	Valve, gas metering
	V2-50	Valve, gas metering
11	S2-3	Spring, gas valve
12	AV2-11	† Gas valve ass'y, complete
	AV2-39	Gas valve ass'y, complete
13	NSS	† Screw 10-24 x 1" (3)
14	NSS	† Nut, dome 10-24 (3)
15	NSS	† Washer, No.10 light flat (6)
16	G1-1	*† Gasket, filter cover
17	NSS	† Rivet, vent valve
18	NSS	† Valve cover vent
19	NSS	Cover, diaphragm (CA300A only)
20	AC1-2	Cover ass'y, diaphragm with vent valve
21	S2-2	† Spring, air valve
22	S1-12	Screw, 8-32 x 5/16" SEMS (6)
23	P2-1	Plate, diaphragm backup
24	D1-1-1	* Diaphragm, air valve
	D1-1-2	* Diaphragm, air valve, silicone
25	G1-15	* Gasket, air valve
26	R1-2	Ring, air valve
27	NSS	Valve, air metering: V1-10, L1-3, B3-24
28	NSS	* Lock, nylon idle adjustment
29	AV1-10-1	† Air valve ass'y, complete with diaphragm
	AV1-10-2	† Air valve ass'y, complete with diaphragm
30	NSS	Ring, diaphragm support (CA300A only)
31	S1-5	Screw, 1/4"-20 x 5/8" hex head SEMS (3)
32	NSS	† Screw, 10-24 x 1-1/2" SEMS (3)
33	NSS	Clamp, Boden wire
34	NSS	Screw, 10-32 x 5/8" hex head
35	NSS	Base ass'y, complete
36	NSS	Nut, square, 1/4"-20
37	S1-69	Screw, 1/4"x 5/16" (plug)
38	AC2-2	Cam ass'y: C2-2, W1-2, S1-7
39	NSS	Body vacuum valve: B1-41, P1-20
40	NSS	Valve, rotary
41	NSS	Spring, vacuum valve
42	NSS	Cap, vacuum valve
43	NSS	Screw, 4-40 x 3/4" (3)
44	NSS	Connector, wire (2)
45	NSS	Switch, gasoline

NSS = NOT SERVICED SEPARATELY

* Indicates components of minor repair kit.

† Indicates components of major repair kit.





SECTION 1: CARBURETORS/MIXERS 300A SERIES

STANDARD AND OPTIONAL EQUIPMENT

MODEL 300A

PART #	DESCRIPTION
A1-4	Adapter, CA300A, mixer to 2-5/8" Air Horn, center stud
A1-3-2	Adapter, CA300A, mixer to 4-3/16" Air Horn, center stud, 3/8" shorter than A1-3-1
A1-39	Adapter, CA300A 2 5/8" C/S High Profile
A1-50-2	Adapter, CA300A
A1-6	Adapter, CA300A, mixer to 3-1/16" Air Horn, center stud
A1-63	Adapter, CA300 Machined
AA1-40	Adapter, CA300 2 5/8" w/ Clamp Nuts
AA1-50-5	Adapter, Assy CA300/CA425
AA1-64-3	Adapter, CA300 dual outlet, Ford
A3-96	Adapter, CA300 Holley 4B
A1-16-1	Adapter, CA300, 5-1/8" Center Stud
A1-16-2	Adapter, CA300, 1/2" Shorter than A1-16-1
A1-54	Adapter, 3-1/8" Air Horn
A1-55	Adapter, 2-5/8" Air Horn
A1-56	Adapter, 2- 5/16" Air Horn
A1-57	Adapter, Unidapt Machined
A1-62	Adapter, 5-1/8" Air Horn
A1-54	Adapter, Spacer ring
AA1-57	Adapter, Ass'y Hood
AA1-67	Adapter, Ass'y 175A to Hose

CABLES

PART #	DESCRIPTION
C2-32	Cable, Boden Wire 300A Series

FILTERS

PART #	DESCRIPTION
F1-1	Filter Element, CA300A, 350 CFM
AFI-1	Air Filter Ass'y, CA300A
AF1-17-2	Air Filter, 550 CFM
C1-4	Cover, CA300A-1

MIXERS

PART #	DESCRIPTION
CA300A-M	Mixer only, w/O Filter, w/ Boden Wire
CA300A-M-2	Mixer only, w/O Filter w/ Boden Wire, Silicone
CA300A-M-3	Mixer, w/O Fitting, Filter, Cable,
CA300A-M-3-2	Mixer, Silicone, w/O cable, & Filter Fitting.
CA300A-M-4-2	Mixer w/O C2-32, AC2-2 Silicone
CA300AM-50-2	Mixer only, w/O Filter, w/ AC2-2
CA300AM-50-3	Mixer only, w/O Filter, C2-32
CA300AM-50-4	Mixer Ass'y, w/O Cable & Cam
FB300A-M-2	Mixer Ass'y, w/ FB. Air Valve
FB300A-M-4-2	Feedback Mixer w/ C2-32
FB300AM-50-2	Mixer Ass'y Feedback, w/O Filter
FB300AM-50-4	Mixer Ass'y, w/O Filter, & Cam Cable
FB300AM-50-4	Mixer Ass'y FB w/O Cable & Filter, Tamp Rest.
VL300AM-50-2	VLMixer Ass'y w/O Cam & Filter.

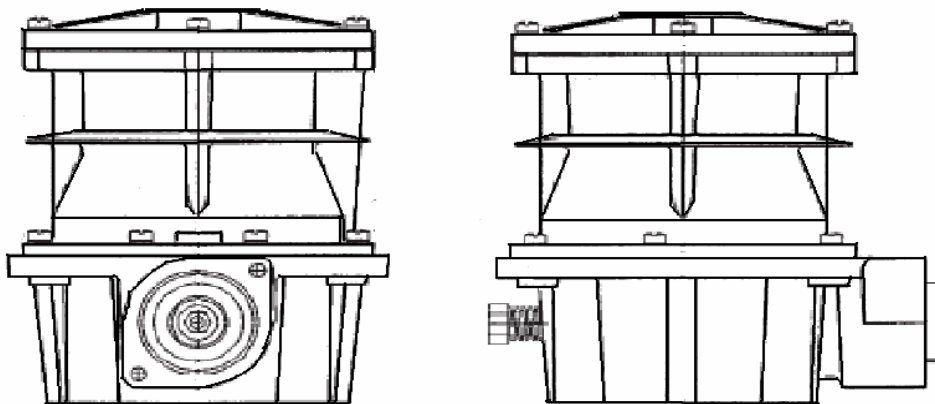
AIR VALVE ASSY

PART #	DESCRIPTION
AV1-10	Valve Ass'y, CA300A
AV1-10-2	Valve Ass'y, CA300A, Silicone
AV2-49	Gas Valve Ass'y, Complete
AV2-50	Gas Valve Ass'y, Complete

REPAIR KITS

PART #	DESCRIPTION
RK300MA-1/20	Repair Kit, Major CA300A
RK300MA-1/20-2	Repair Kit, Major CA300A, Silicone
RK300MA-50/70-2	Repair Kit, Major CA300A, Silicone
RK300MI-1/20	Repair Kit, Minor CA300A
RK300MI-1/20-2	Repair Kit, Minor CA300A, Silicone
RK300MI-50/70-2	Repair Kit, Minor CA300A, Silicone

MODEL 400VF STANDARD CARBURETOR



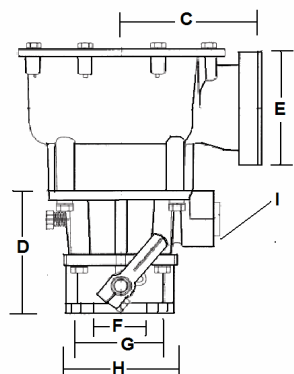
TECHNICAL DESCRIPTION

The 400VF Series Mixer is a concentric flow type air valve carburetor. A precision gas metering valve is attached to the air valve. The air valve and gas valve motion is linear in relation to the volumetric flow. The air fuel ratio is controlled by the adjustable power valve, the shape of the gas metering valve and the pressure from the gas regulator. The gas valve and matching jet is sized for the gas to be used. There are several jet sizes to adapt to various fuels from propane to landfill gas. Gas valves are shaped to provide A/F versus flow characteristics defined by each customer.

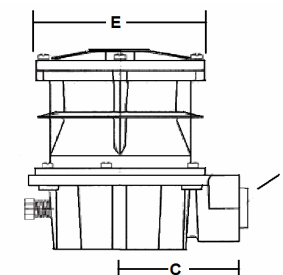
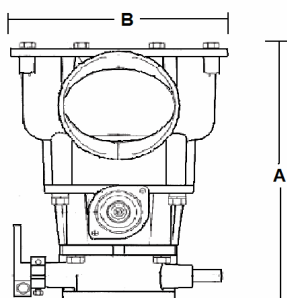
TECHNICAL SPECIFICATIONS

Fuel Type	
Propane.....	50-50 Propane Butane
Natural Gas	85% + Methane
Digester Gas	60-72% Methane
Landfill Gas	45-60% Methane
Gas Inlet Normal	5"H ₂ O over Air Inlet (Idle Setting)
Air Inlet Maximum	517 kPa (75 PSI)
Back Fire Peak	1379 kPa (200 PSI)
Air Flow Capacity	500 CFM @ 2" HgΔP (T2-7 @ WOT)
Max Operating Temp	121° C (250° F)
Max Soakback	160° C (320° F)

DIMENSIONS



VIEW "A"

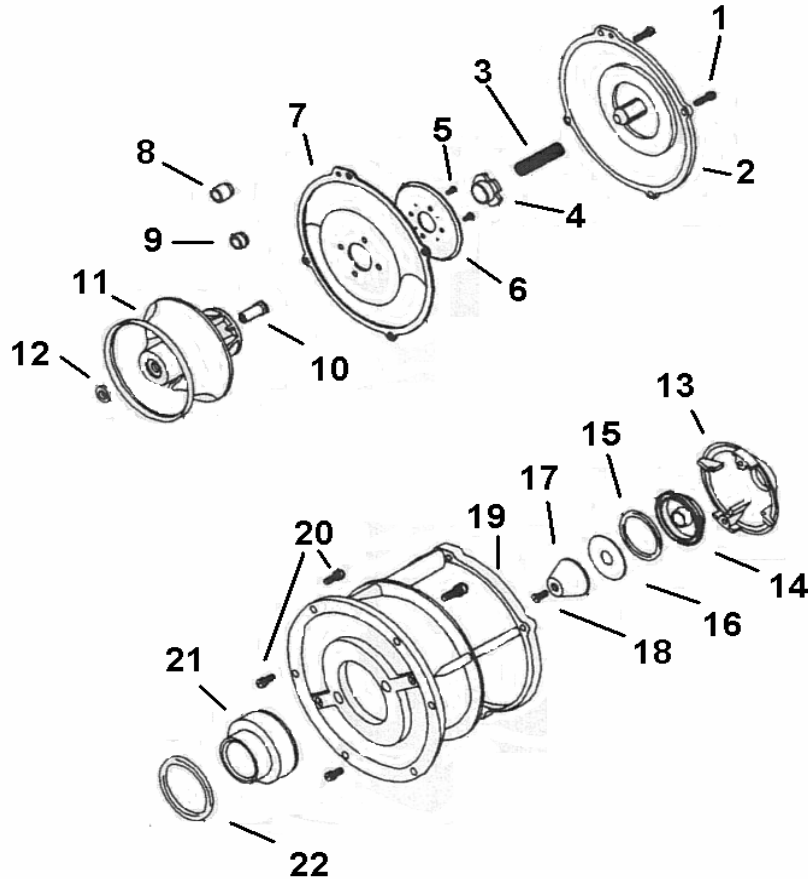


VIEW "B"

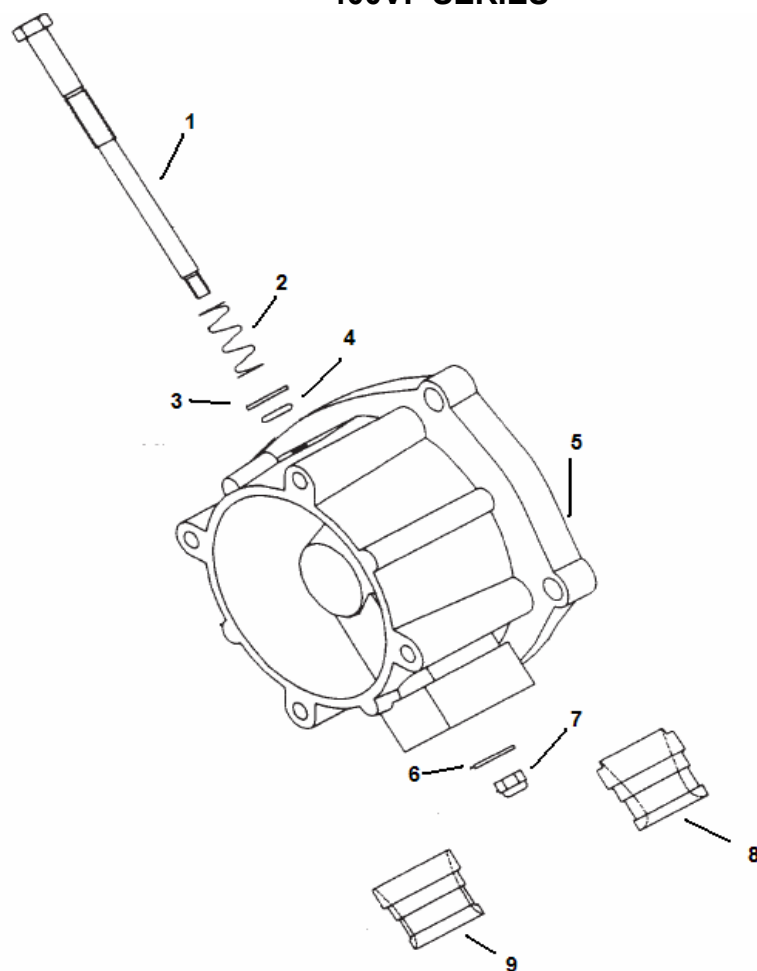
STD. CARB.	AIR VALVE BODY ASS'Y	GAS VALVE CONV.	GAS BODY ASS'Y	AIR INLET ASS'Y	THROAT ASS'Y	VIEW	A	B	C	D
							OVERALL HEIGHT	OVERALL WIDTH	CTR TO INLET	THROTTLE BODY HEIGHT
NG400VF3X-3-2	AB1-66-3X	CKV2-77	AB1-67	AA2-70	AT2-7-303	A	245.8 mm (9.68")	182.8 mm (7.20")	123.9 mm (4.88")	112.0 mm (4.41")
NG400VF3SM-1-2	AB1-66-3S	CKV2-77	AB1-67	N/A	N/A	B	151.8mm (5.98")	127 mm (5.0")	82.2 mm (3.24")	N/A

E	F	G	H	I
INLET DIA.	BORE DIA.	CTR. TO CTR. BOLT HOLES	FLANGE WIDTH	FUEL INLET NPT
101.6 mm (4.0")	68.3 mm (2.69")	72.8 mm (2.87")	95.2 mm (3.75")	31.7 mm (1.25")
117.4 mm (4.625")	N/A	N/A	N/A	31.7 mm (1.25")

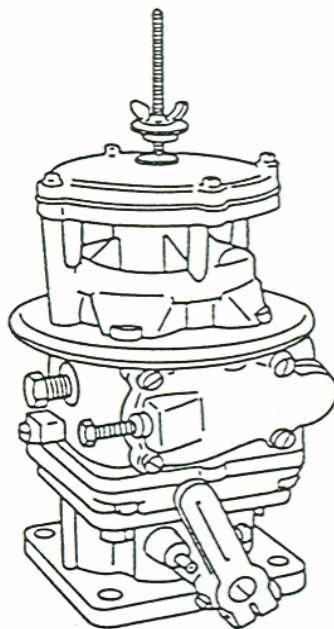
400VF SERIES



ITEM #	PART #	DESCRIPTION	ITEM #	PART #	DESCRIPTION
1	S1-3	Screw	13	BC1-29-3	Jet Cover
2	C1-30	Cover	14	P4-4	Piston
3	S2-30	Spring, Air Valve	15	S3-132	O-ring
	S2-41	Spring, Air Valve 600 High		S3-42	O-ring
4	B3-57	Bushing		S3-78	O-ring
5	S1-22	Screw		S3-82	O-ring
6	P2-62-2	Plate, Back up Diaphragm 400VF	16	W1-100	Washer
	P2-61	Plate, Back Up Diaphragm 600VF		V2-XX	Gas Valve
	P2-61-2	Plate, Back Up Diaphragm 600VF	17	V2-21-4	Gas Valve, Carb. 59025C
7	D1-25	Diaphragm		V2-43	Gas Valve
8	S4-39	Updraft Spacer	18	S1-66	Screw
9	S4-38	Sidedraft Spacer	19	BB1-66	Body, 400VF
10	S5-31	Shaft	20	S1-3	Screw
11	V1-16	Air Valve	21	J1-XX	Jet
12	S3-111	O-ring	22	S3-133	O-ring Nitrile, Natural Gas
				S3-133-2	O-ring Viton Landfill/Digester Gas
			Not Shown	S3-103	O-ring, 90° Cover 400VF
				S3-138	O-ring, 90° Cover 400VF

400VF SERIES

ITEM #	PART #	DESCRIPTION
1	S1-206	Power Adjust Screw
2	S2-16	Spring
3	W1-33	Washer
4	S3-27	O-ring
5	B1-57	Gas Body
6	NSS	Washer Power Valve
7	NSS	Ny Loc Nut
8	J1-36	Jet Natural Gas & Propane
9	J1-48	Jet Landfill & Digester
Not Shown	B2-9	Bearing, Needle AT2-7
Not Shown	W1-59	Washer, .394x1.246.051, Almn.
Not Shown	W1-63	Washer, .263x1.744.051, Steel

MODEL 425 STANDARD CARBURETOR**TECHNICAL DESCRIPTION**

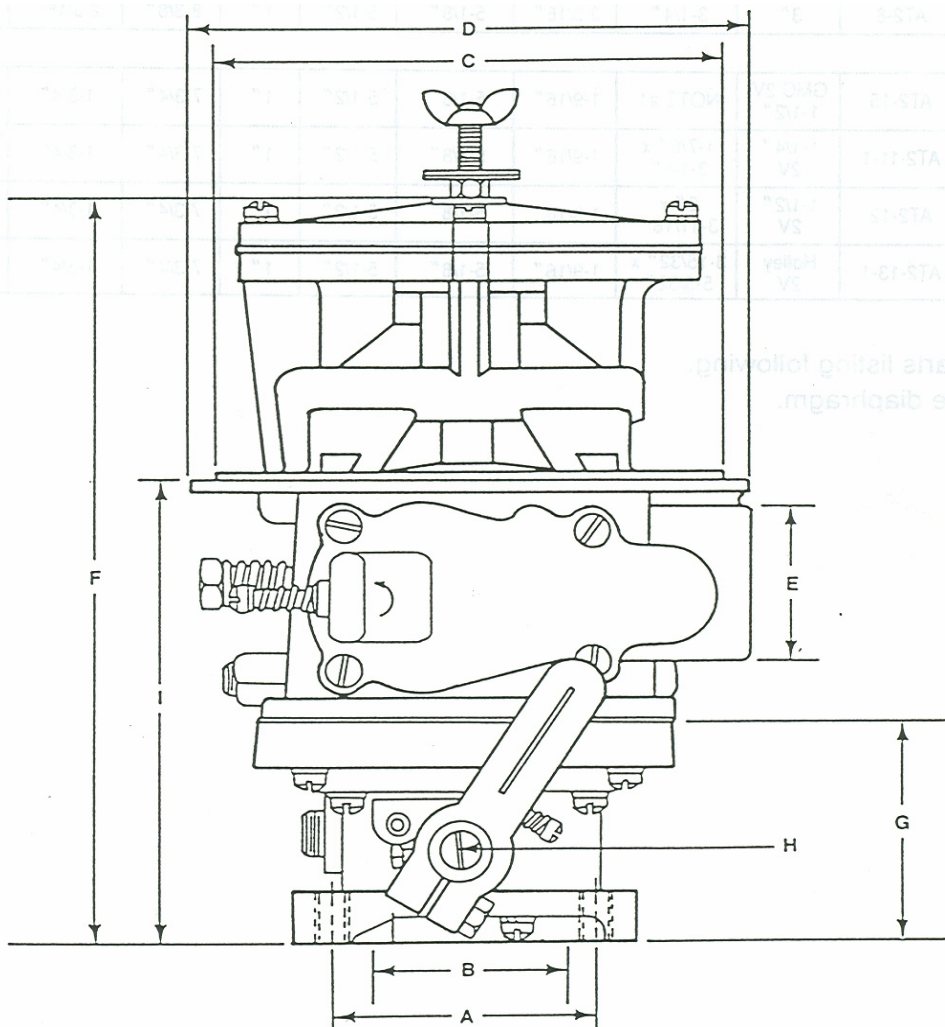
The Model 425 carburetor is a single-diaphragm air valve carburetor / mixer. It offers a down-draft air inlet that can be used for remote air filtration or open-element type air filters. This unit is available for Propane, Natural Gas, and Digester Gas applications. It has been successfully used for other hydrocarbon based vapor fuels as low as 500 BTU.

The Model 425 is also available for feedback applications with the 'FB' designation. These FB mixers are available in tamper resistant configuration, indicated by the part number suffix "-TR" on the part number.

TECHNICAL SPECIFICATIONS

Fuel Type	Methane / Propane (550 - 2,500 BTU)
Maximum Fuel Inlet Pressure	8.0 in H ₂ O
Air Flow Capacity.....	460 cfm @ 1.5 in Hg manifold
Horsepower Rating	287 hp @ 2,500 BTU per cubic feet
Operating Temperature.....	-40°C to 120°C (-40°F to 250°F)
Materials	
Body	Aluminum
Diaphragm	Hydrin (Standard), Silicone (Optional)

DIMENSIONS

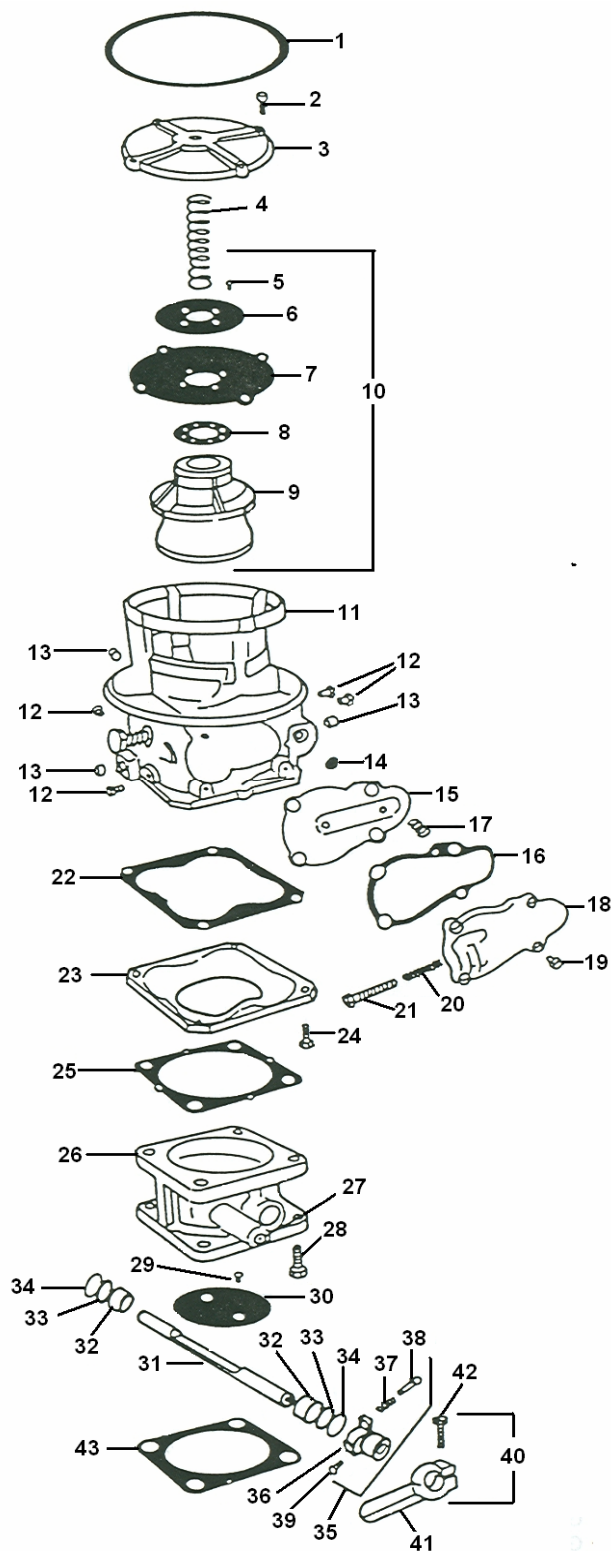


STD. CARB.	MIXER	THRTL. BODY	SAE FLANGE	CTR. TO CTR. BOLT SPACING	BORE	MIXER AIR HORN DIA.	OVERALL WIDTH	NPT FUEL INLET	OVERALL HEIGHT	THRTL. BODY HEIGHT	THRTL. SHAFT DIA.	FLANGE TO AIR HORN FLANGE
CA425-2	CA425M	AT2-7	2-1/2"	73.03 mm (2.875")	67.95 mm (2.688")	130.18 mm (5.125")	139.7 mm (5.50")	1"	212.73 mm (8.375")	53.98 mm (2.125")	11.11 mm (0.438)	130.18 mm (5.125")
CT425-2	CT425M	AT2-7	2-1/2"	73.03 mm (2.875")	67.95 mm (2.688")	130.18 mm (5.125")	139.7 mm (5.50")	1"	212.73 mm (8.375")	53.98 mm (2.125")	11.11 mm (0.438)	130.18 mm (5.125")
CT425-510	CT425M	AT2-8	3"	82.55 mm (3.25")	80.96 mm (3.1875")	130.18 mm (5.125")	139.7 mm (5.50")	1"	212.73 mm (8.375")	55.56 mm (2.188")	11.11 mm (0.438)	133.35 mm (5.25")

MODEL 425 1V STANDARD CARBURETOR

ITEM #	PART #	DESCRIPTION
1	G1-66	Gasket, Air Horn
2	S1-3	Screw, 10-24 x 5/8" SEMS (4)
3	C1-30	Cover, air valve diaphragm
4	S2-30	Spring, air valve
5	NSS	Screw, 6-32 x 1/4" SEMS (4)
6	P2-22	Plate, backup
7	D1-18	Diaphragm, air valve
	D1-25	Diaphragm, air valve, silicone
8	G1-102	Gasket air valve
9	NSS	Air-gas valve
10	AV1-16	Air-gas valve assembly
11	AB1-27	Body Assembly
12	S1-69	Screw, 1/4" -28 x 5/16" (3)
13	NSS	Plug, 1/8" pipe
14	S4-13	Seat, idle valve
15	AD1-28-1	Idle diaphragm assembly
16	G1-116	Gasket, idle diaphragm
17	S2-24	Spring, idle valve
18	C1-31	Cover, idle valve
19	S1-40	Screw, 10-24 x 3/8" SEMS (4)
20	S2-89	Spring, idle adjustment
21	S1-51	idle adjust, 10-32 x 1-1/4"
22	G1-74	Gasket, mixer to adapter
23	NSS	Adapter, mixer to throttle body
24	S1-19	Screw, 12-24 x 5/8" SEMS (4)
25	G1-25	Gasket, adapter to throttle body
26	NSS	Throat, 2-1/2" SAE flange
27	NSS	Pin, throttle stop (2)
28	S1-30	Screw, 5/16"-18 x 7/8"
29	NSS	Stop screw, 10-32 x 5/16"
	F2-7	Fly, 2-1/2"
30	F2-8	Fly, 3.0"
	F2-9	Fly, 3.5"
31	S5-4	Throttle shaft, 7/16" diameter
32	B3-44	Permaglide bearing, 7/16" I.D.
33	S3-96	Seal, internal, 7/16" I.D. (2)
34	R1-52	Ring, seal retainer (2)
35	AL1-11-1	Throttle stop assembly: 7/16"
36	L1-11-1	Throttle stop lever, 7/16" I.D.
37	S2-15	Spring, idle stop screw
38	S1-21	Stop screw, 10-32 x 3/4" SEMS (2)
39	S1-18	Pin, screw, throttle stop
40	AL1-12-3	Throttle lever, long, with screw
41	NSS	Throttle lever, long
42	S1-32	Screw, 1/4" -20 x 7/8"
43	G1-27	Gasket, 2-1/2" Flange
	G1-28	Gasket, 3" Flange

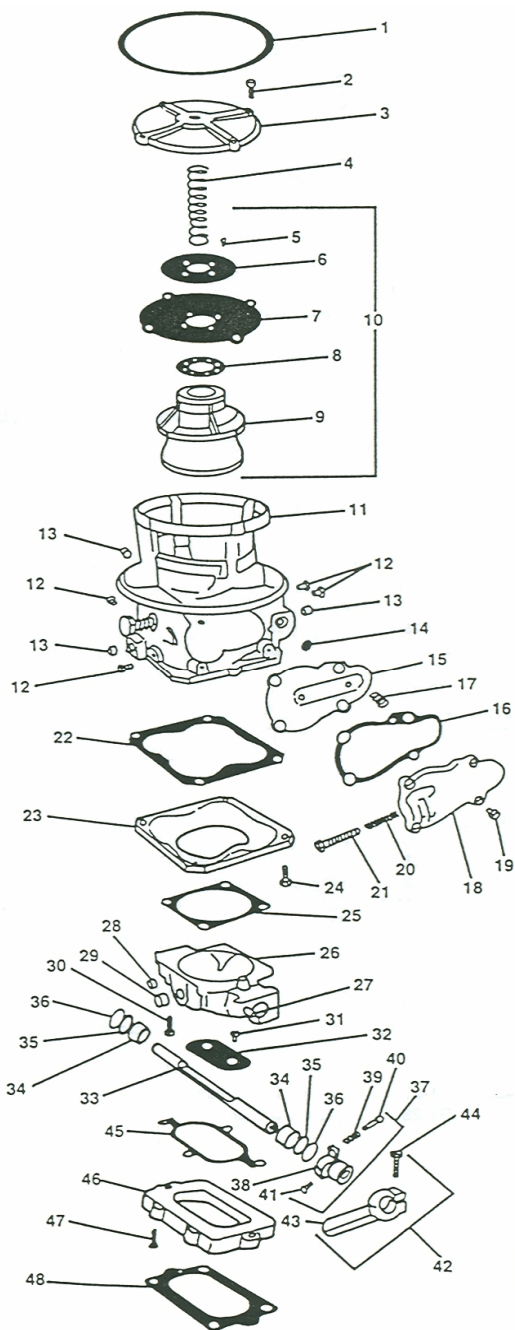
NSS = Not Serviced Separately



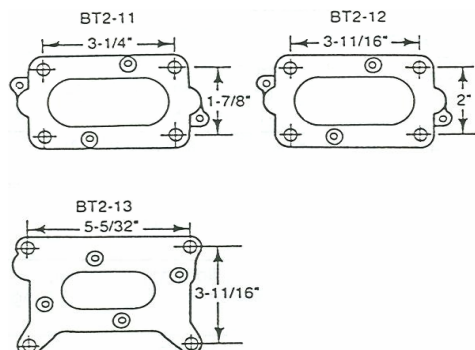
MODEL 425 2V STANDARD CARBURETOR

ITEM #	PART #	DESCRIPTION
1	G1-66	Gasket, Air Horn
2	S1-3	Screw, 10-24 x 5/8" SEMS (4)
3	C1-30	Cover, air valve diaphragm
4	S2-30	Spring, air valve
5	NSS	Screw, 6-32 x 1/4" SEMS (4)
6	P2-22	Plate, backup
7	D1-18	Diaphragm, air valve
	D1-25	Diaphragm, air valve, silicone
8	G1-102	Gasket, air valve
9	NSS	Air-gas valve
10	AV1-16	Air-gas valve assembly
11	AB1-27	Body Assembly
12	S1-69	Screw, 1/4" -28 x 5/16" (3)
13	NSS	Plug, 1/8" pipe
14	S4-13	Seat, idle valve
15	AD1-28-1	Idle diaphragm assembly
16	G1-116	Gasket, idle diaphragm
17	S2-24	Spring, idle valve
18	C1-31	Cover, idle valve
19	S1-40	Screw, 10-24 x 3/8" SEMS (4)
20	S2-89	Spring, idle adjustment
21	S1-51	Screw, 10-32 x 1-1/4", idle adjust
22	G1-74	Gasket, mixer to adapter
23	A3-47	Adapter, mixer to throttle body
24	S1-19	Screw, 12-24 x 5/8" SEMS (4)
25	G1-21	Gasket, adapter to throttle body
26	NSS	Body, 2B throttle
27	NSS	Pin, throttle stop (2)
28	NSS	Plug, 1/8" pipe
29	NSS	Plug, 1/4" pipe
30	S1-19	Screw, 12-24 x 5/8" SEMS (4)
31	NSS	Stop screw, 10-32 x 5/16" SEMS (2)
32	NSS	Fly, 2B
33	S5-4	Throttle shaft, 7/16" diameter
34	B2-9	Bearing, needle 7/16"
35	S3-12	Seal, 7/16" shaft
	S3-19	Seal, internal (optional), 7/16"
36	R1-11	Ring, seal retainer (2)
37	AL1-11-1	Throttle stop assembly: 7/16"
38	L1-11-1	Throttle stop lever, 7/16" I.D.
39	S2-16	Spring, idle stop screw
40	S1-21	Stop screw, 10-32 x 3/4"
41	S1-18	Pin, screw, throttle stop
42	AL1-12-3	Throttle lever, long, with screw
43	L1-12-3	Throttle lever, long
44	S1-32	Screw, 1/4" -20 x 7/8" hex head
45	G1-44	Gasket, throttle body to flange
46	BT2-11	Flange, 1-1/4" 2B, with gasket
47	S1-19	Screw, 12-24 x 5/8" SEMS (4)
48	G1-45	Gasket, 1-1/4" 2B flange
	G1-46	Gasket, 1-1/2" 2B flange

NSS = Not Serviced Separately



MODEL 425 STANDARD CARBURETOR



THROTTLE BODIES: ONE BRL

PART #	DESCRIPTION
AT2-	Throttle Body 2.5"
AT2-8	Throttle Body 3.0"

THROTTLE BODIES: TWO BRL

PART #	DESCRIPTION
AT2-11-1	Throttle Body, 2V, 1-1/4" Flng.
AT2-12	Throttle Body, 2V, 1-1/2" Flng.
AT2-13-1	T/B Holley, 7/16" Shaft
AT2-13-2	T/B Holley, 7/16" Long Shaft

THROTTLE SHAFTS

PART #	DESCRIPTION
S5-4	Shaft, 7/16" Diameter Long

RETURN SPRINGS

PART #	DESCRIPTION
AS2-50-4	7/16" Return Spring Ass'y

BRACKETS

PART #	DESCRIPTION
AB4-4	Bracket, Boden Wire
AB4-6	Rear Fly Booster, Spring

WHISTLE DAMPER

PART #	DESCRIPTION
AB4-5	Baffle, Damper CA425M

THROTTLE BODIES

PART #	DESCRIPTION
BT2-11	Body Flange w/ Gasket
BT2-12	Body Flange w/ Gasket
BT2-13	Body Flange w/ Gasket

MIXERS-STANDARD

PART #	DESCRIPTION
CA425-2	Carb. Ass'y, 2-1/2 SAE 5" C/S Air Horn
CT425-2	Carb. Ass'y, 2-1/2 SAE 5" C/S A/H Tamper Rest.
CT425M	Mixer Ass'y, Tamper Resistant
CT425M-2	Mixer Ass'y, Tamper Resistant, Silicone
CT425M-510	Mixer Ass'y, 425
FT425M-2	Mixer Ass'y, Feedback, Tamper Resistant

LEVERS

PART #	DESCRIPTION
AL1-11-1	Stop Ass'y, 7/16" Long
AL1-12-1	Stop Ass'y, 3-1/16" Long
AL1-12-3	Stop Ass'y, 2-5/16" Long

NOTES:

* AL1-12 levers used with AL1-11 lever stop.

* See lever section of catalog for other optional levers.

AIR GAS VALVE ASSEMBLIES

PART #	DESCRIPTION
AV1-16	Air Gas Valve Ass'y, Hydrin
AV1-16-2	Air Gas Valve Ass'y, Silicone
AV1-1637-2	Air Gas Valve, w/ V2-37 Silicone
AV1-1644-2	Air Gas Valve, w/ V2-44 Silicone
AV1-1651	Air Gas Valve, w/ V2-51, FB
AV1-16-510	Air Gas Valve, for 425-10
AV1-1651-2	Air Gas Valve, w/ V2-51, FB, Silicone



MODEL 425 STANDARD CARBURETOR

Adapter

PART #	DESCRIPTION
AA2-14	Adapter Air Horn 90° X 3-1/2"
AA2-15	Adapter Air Horn 90° X 4"
AA2-40	Adapter Air Horn 90° X 5"
AA2-46	Adapter, Air Horn 90° X 5"
AA2-49	Adapter, A/H Ford & Chevy 1.5" spacer
AA3-19	225M to Holley 2B
AA3-35	425 to 2.5" & 3" T/B
AA3-47	225 to CA425 T/B
AA3-48	CA425M to AA3-19
AA3-65	Adapter, CA425M
AA3-74	Adapter, CA425 Holley 2B T/B
AA3-75	Adapter, CA425 to CA300A
AA3-80	Adapter, Dual 425 Mixer to Holley
AA3-86	Adapter, 425 Mixer to Rochester. Q-Jet
AA3	Adapter, AA3-37, Carter Thermo-Quad

ADAPTERS

PART #	DESCRIPTION
A2-47	Adapter, Air Cleaner Base 125 - 425M
A2-54	Adapter, Air Cleaner Base 425M
A2-55	Adapter, Air Cleaner Base 425M
A1-79	Adapter, 425 Carb., Small
A1-80	Adapter, 425 Carb., Large
A2-73	Adapter, 1/2" Spacer, 5" ID

AIR CLEANER ASSEMBLIES

PART #	DESCRIPTION
AF1-14	Filter Ass'y, 500CFM
AF1-15	Filter Ass'y, 400CFM
AF1-16	Filter Ass'y, 350CFM
AF1-16-2	Filter Ass'y, 550CFM

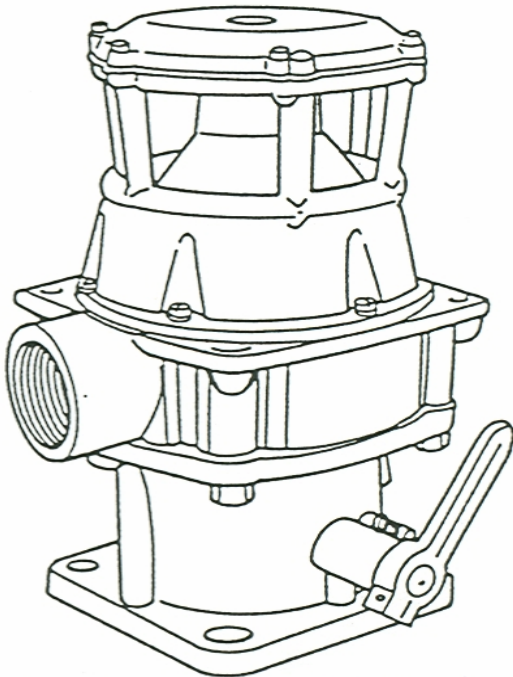
FILTER

PART #	DESCRIPTION
F1-14	Filter, Element 500CFM
F1-15	Filter, Element 400CFM
F1-6	Filter, Element 500CFM
F1-9	Filter, Element 500CFM

GASKETS AND SEALS

PART #	DESCRIPTION
G1-126	Gasket, Throttle Adapter, A3-67
G1-30	Gasket, Flange 425
G1-65	Gasket, plate Venturi P2-24

MODEL 600 SERIES



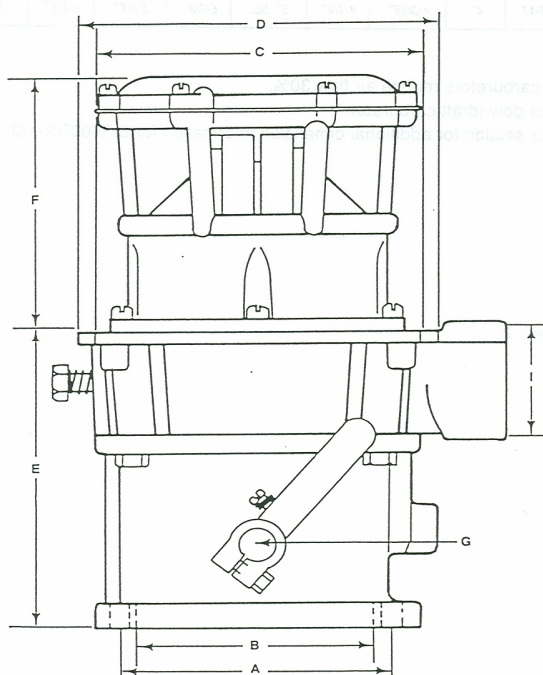
TECHNICAL DESCRIPTION

The 600 Series Mixer is a concentric flow type air valve carburetor. A precision gas metering valve is attached to the air valve. The air valve and gas valve motion is linear in relation to the volumetric flow. The air fuel ratio is controlled by the adjustable power valve, the shape of the gas metering valve and the pressure from the gas regulator. The gas valve and matching jet is sized for the gas to be used. There are several jet sizes to adapt to various fuels from propane to landfill gas. Gas valves are shaped to provide A/F versus flow characteristics defined by each customer.

TECHNICAL SPECIFICATIONS

Fuel Type	
Propane.....	50-50 Propane Butane
Natural Gas	85% + Methane
Digester Gas	60-72% Methane
Landfill Gas	45-60% Methane
Gas Inlet Normal	5"H2O over Air Inlet (Idle Setting)
Air Inlet Maximum	517 kPa (75 PSI)
Back Fire Peak	1379 kPa (200 PSI)
Air Flow Capacity	500 CFM @ 2" HgΔP (T2-7 @ WOT)
Max Operating Temp	121° C (250° F)
Max Soakback	160° C (320° F)



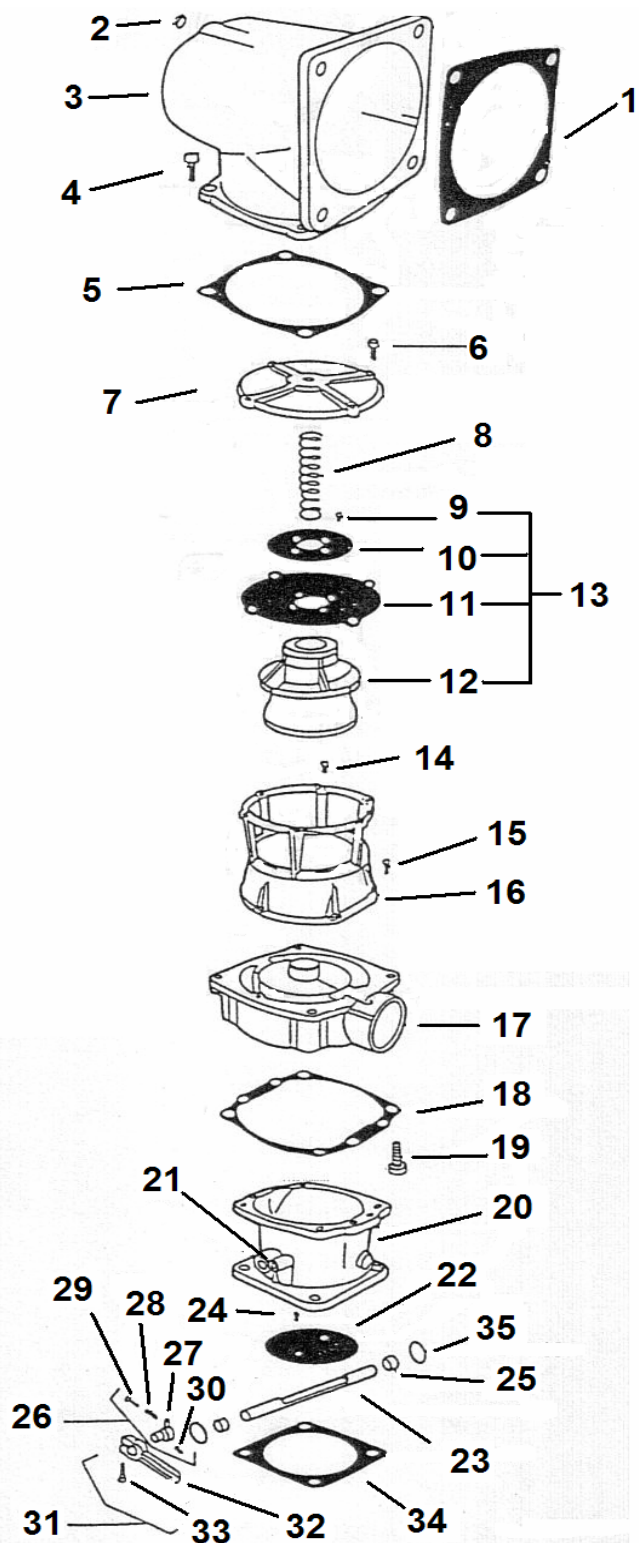
DIMENSIONS


				A	B	C	D	E
STANDARD CARB.	MIXER	THROTTLE BODY	SAE FLANGE	CENTER TO CENTER BOLT SPACING	BORE	AIR HORN FLANGE BOLT CENTER TO CENTER	OVERALL AIR HORN WIDTH	THROTTLE BODY TO AIR HORN HEIGHT
600-1	600M	AT2-17	4"	106.3 mm (4.1875")	107.9 mm (4.25")	5" Sq.	174.6 mm (6.875")	146.0 mm (5.75")
600-X-1	600XM	AT2-17	4"	106.3 mm (4.1875")	107.9 mm (4.25")	5" Sq.	174.6 mm (6.875")	146.0 mm (5.75")
DG600-1	DG600M	AT2-17	4"	106.3 mm (4.1875")	107.9 mm (4.25")	5" Sq.	174.6 mm (6.875")	146.0 mm (5.75")
DG600 DX-1-2	DG600XM	AT2-17	4"	106.3 mm (4.1875")	107.9 mm (4.25")	5" Sq.	174.6 mm (6.875")	146.0 mm (5.75")

	F	G	H	I
STANDARD CARB.	AIR HORN TO TOP OF MIXER	THROTTLE SHAFT DIAMETER	THROTTLE SHAFT LENGTH	NPT FUEL INLET
600-1	123.8 mm (4.875")	12.7 mm (.50")	212.7 mm (8.375")	38.1 mm (1.50")
600-X-1	123.8 mm (4.875")	12.7 mm (.50")	212.7 mm (8.375")	38.1 mm (1.50")
DG600-1	123.8 mm (4.875")	12.7 mm (.50")	212.7 mm (8.375")	38.1 mm (1.50")
DG600 DX-1-2	123.8 mm (4.875")	12.7 mm (.50")	212.7 mm (8.375")	38.1 mm (1.50")

MODEL 600

ITEM #	PART #	DESCRIPTION
1	G1-77	Gasket, Air Horn
2	P3-12	Plug, 3/8" pipe
3	A2-16	Air Horn, 5-5/8" bolt centers
4	S1-34	Screw, 3/8-16 x 1" SEMS (4)
5	G1-76-1	Gasket, body to Air Horn
6	S1-3	Screw, 10-24 x 5/8" SEMS (6)
7	C1-32	Cover, air valve diaphragm
8	S2-32-1	Spring, air valve, updraft
	S2-32-2	Spring, air valve, downdraft (yellow)
9	S1-12	Screw, 8-32 x 5/16" SEMS (4)
10	P2-21	Plate, backup
11	D1-20-1	Diaphragm
	D1-20-2	Diaphragm, Silicone
12	BV1-17	Air valve assembly, Propane
13	AV1-17	Air-gas valve assembly, complete
14	S1-3	Screw, 10-24 x 5/8" SEMS (2)
15	S1-19	Screw, 12-24 x 5/8" SEMS (6)
16	B1-30	Body, air valve
	B1-30-1	Body, air valve, digester gas
	BB1-30-5	Body Horizontal Mount
17	AB1-31	Gas inlet body assembly
18	G1-78-1	Gasket, throttle body to mixer
19	S1-34	Screw, 3/8"-16 x 1" SEMS (4)
20	T2-17	Throat, 4" SAE flange
21	P1-6	Pin, throttle stop (2)
22	F2-11	Fly, 4-13/16" diameter
	F2-9	Fly, 3-11/16" diameter
23	S5-10	Throttle shaft, 1/2" dia.
	S5-14	Throttle shaft, 9/16" dia., 4" fly
24	S1-35	Screw, 10-32 x 3/8" SEMS
25	B2-16	Permaglide bearings, 5/16" I.D.
	B3-43	Bearing, needle, 1/2" shaft (2)
26	AL1-11-2	Throttle stop assembly: 1/2" I.D.
27	L1-11-2	Throttle stop lever, 1/2" I.D.
28	S2-15	Spring, idle stop screw
29	S1-21	Stop screw, 10-32 x 3/4"
30	S1-18	Pin, screw, throttle stop
31	AL1-12-1	Throttle lever, with screw
32	L1-12-1	Throttle lever
33	S1-32	Screw, 1/4"-20 x 7/8" hex
34	G1-38	Gasket, 4" flange
	G1-29	Gasket, 3-1/2" flange
35	S3-93	Throttle shaft seal, 1/2"





SECTION 1: CARBURETORS/MIXERS 600 SERIES

MODEL 600 STANDARD CARBURETOR

MIXER: UPDRAFT - STANDARD

PART #	DESCRIPTION
600M	Updraft Mixer
600M-2	Updraft Mixer w/Silicone

MIXER: UPDRAFT - STANDARD

PART NUMBER	DESCRIPTION
600XM	Downdraft Mixer

THROTTLE BODIES

PART #	DESCRIPTION
AT2-9	3-1/2" SAE Flange
AT2-9-2	3-1/2" SAE Flange, 9/16 Shaft, C/B
AT2-9-308	3-1/2" SAE Permaglide (CAT)
AT2-9-4	3-1/2" SAE (7W1513)
AT2-9-603	3-1/2" SAE
AT2-17	4" SAE 1/2 Permaglide, Shaft Offset
AT2-17-2	4" SAE 9/16" N/B, Shaft Offset
BT2-17-358	Throttle Body (7E1585)
BT2-17-271	Throttle Body Ass'y

MODEL 600 SERIES MIXERS/CARBURETORS

PART #	DESCRIPTION
600-1	Carb., 4" Updraft, 90°
600-1-2	Carb., 4" Updraft, 90° w/Silicone
600-21V	Carb. Ass'y, 600 (59021V)
600-21X	Carb. Ass'y, 600 (59021X)
600-21Y	Carb. Ass'y, 600 (59021Y)
600-75	Carb., 4" Updraft, (59018)
600-76	Carb., 4" Updraft, L.H. (59018-A)
600M	Updraft Mixer
600X-3-2	Carb 4" Dwn/Drf Straight A/ Horn Silic.

THROTTLE SHAFTS

PART #	DESCRIPTION
S5-10	1/2" Dia. 8-3/8" Long
S5-14	9/16" Dia. 9" Long, 4" Fly

ADAPTERS

PART #	DESCRIPTION
AA2-16	Air Horn 6" Dia. x 90°
AA2-19	Air Horn 6" Dia. to 4-5/8" Dia.

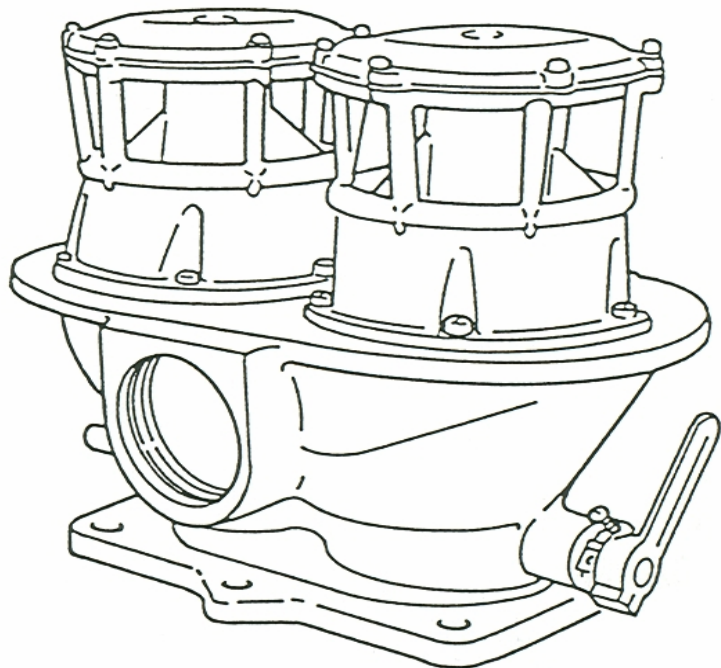
AIR GAS VALVES ASSEMBLIES

PART #	DESCRIPTION
AV1-17	Air Gas Valve Assembly
AV1-17-2	Air Gas Valve Assembly, Silicone
AV1-17-3	Air Gas Vlv. Ass'y, Silic. Waukesha Tbo.
AV1-17-4	Air Gas Valve Ass'y, w/ Diaph. 600
AV1-17-6	Air Gas Valve Ass'y, Waukesha
AV1-17-7	Air Gas Valve Ass'y, w/ V2-71
AV1-1776	Air Gas Vlv. Ass'y, w/ V2-76, Silicone
V2-38	Air Gas Valve, BV1-17

REPAIR KITS

PART #	DESCRIPTION
RK-B3-43	Repair Kit, T2-9, 10 & 17 Permaglide
RK-B3-43-1	Retro Kit, to Upgrade T2-9, 10 & 17

MODEL 600D SERIES



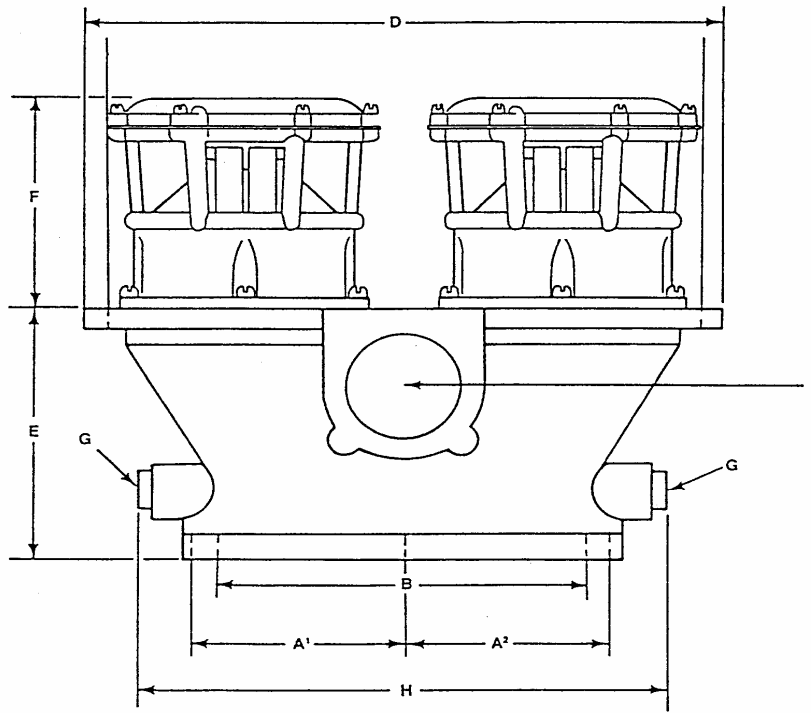
TECHNICAL DESCRIPTION

The 600D Series Mixer is a concentric flow type air valve carburetor. A precision gas metering valve is attached to the air valve. The air valve and gas valve motion is linear in relation to the volumetric flow. The air fuel ratio is controlled by the adjustable power valve, the shape of the gas metering valve and the pressure from the gas regulator. The gas valve and matching jet is sized for the gas to be used. There are several jet sizes to adapt to various fuels from propane to landfill gas. Gas valves are shaped to provide A/F versus flow characteristics defined by each customer.

TECHNICAL SPECIFICATIONS

Fuel Type	
Propane.....	50-50 Propane Butane
Natural Gas	85% + Methane
Digester Gas	60-72% Methane
Landfill Gas	45-60% Methane
Gas Inlet Normal	5"H2O over Air Inlet (Idle Setting)
Air Inlet Maximum	517 kPa (75 PSI)
Back Fire Peak	1379 kPa (200 PSI)
Air Flow Capacity.....	500 CFM @ 2" HgΔP (T2-7 @ WOT)
Max Operating Temp	121° C (250° F)
Max Soakback	160° C (320° F)

DIMENSIONS



"A" VIEW

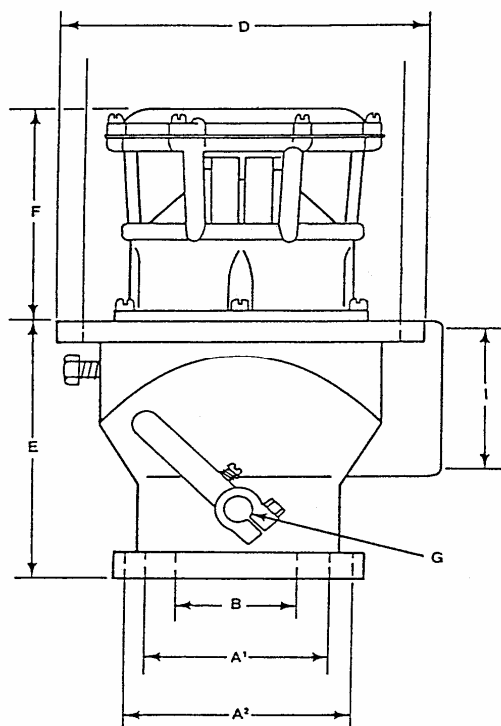
				A1	A2	B	C	D	E
STANDARD CARB.	MIXER	THROTTLE BODY	SAE FLANGE	CENTER TO CENTER BOLT SPACING	CENTER TO CENTER BOLT SPACING	BORE	AIR HORN ADAPTER	OVERALL AIR HORN WIDTH	THROTTLE BODY TO AIRHORN HEIGHT
600D-1-2	600DXM-2	AT2-18	4" Duplex	104.7 mm (4.125")	104.7 mm (4.125")	204.7 mm (8.0625")	A2-18	339.7 mm (13.375")	146.05 mm (5.75")
600DX-3-2	600DXM-2	AT2-18	4" Duplex	104.7 mm (4.125")	104.7 mm (4.125")	204.7 mm (8.0625")	A2-18	339.7 mm (13.375")	146.05 mm (5.75")
600DX-5-2	DG600DXM-2	AT2-18	4" Duplex	104.7 mm (4.125")	104.7 mm (4.125")	204.7 mm (8.0625")	A2-18	339.7 mm (13.375")	146.05 mm (5.75")

F	G	H	I
AIR HORN TO TOP OF MIXER	THROTTLE SHAFT DIAMETER	THROTTLE SHAFT LENGTH	NPT FUEL INLET
123.8 mm (4.875")	12.7 mm (.50")	315.91 mm (12.4375")	63.50 mm (2.5")
123.8 mm (4.875")	12.7 mm (.50")	315.91 mm (12.4375")	63.50 mm (2.5")
123.8 mm (4.875")	12.7 mm (.50")	315.91 mm (12.4375")	63.50 mm (2.5")

NOTES:

- DG (digester gas) carburetors reduce air flow 30%.
- -X (or DX) indicates downdraft carburetor.
- Refer to A2 Air Horn adapter section for additional dimension information.
- Adapter not shown in picture boxes.

DIMENSIONS



"B" VIEW

				A1	A2	B	C	D	E	F
STANDARD CARB.	MIXER	THRTL. BODY	SAE FLANGE	CTR. TO CTR. BOLT SPACING	CTR. TO CTR. BOLT SPACING	BORE	AIR HORN ADPTR.	OVRL. AIR HORN WIDTH	THRTL. BODY TO AIRHORN HEIGHT	AIR HORN TO TOP OF MIXER
600D-1-2	600DXM-2	AT2-18	4" Duplex	98.4 mm (3.875")	136.5 mm (5.375")	96.8 mm (3.8125")	A2-18	339.7 mm (13.375")	146 mm (5.75")	123.8 mm (4.875")
600DX-3-2	600DXM-2	AT2-18	4" Duplex	98.4 mm (3.875")	136.5 mm (5.375")	96.8 mm (3.8125")	A2-17	339.7 mm (13.375")	146 mm (5.75")	123.8 mm (4.875")
600DX-5-2	600DXM-2	AT2-18	4" Duplex	98.4 mm (3.875")	136.5 mm (5.375")	96.8 mm (3.8125")	A2-17	339.7 mm (13.375")	146 mm (5.75")	123.8 mm (4.875")

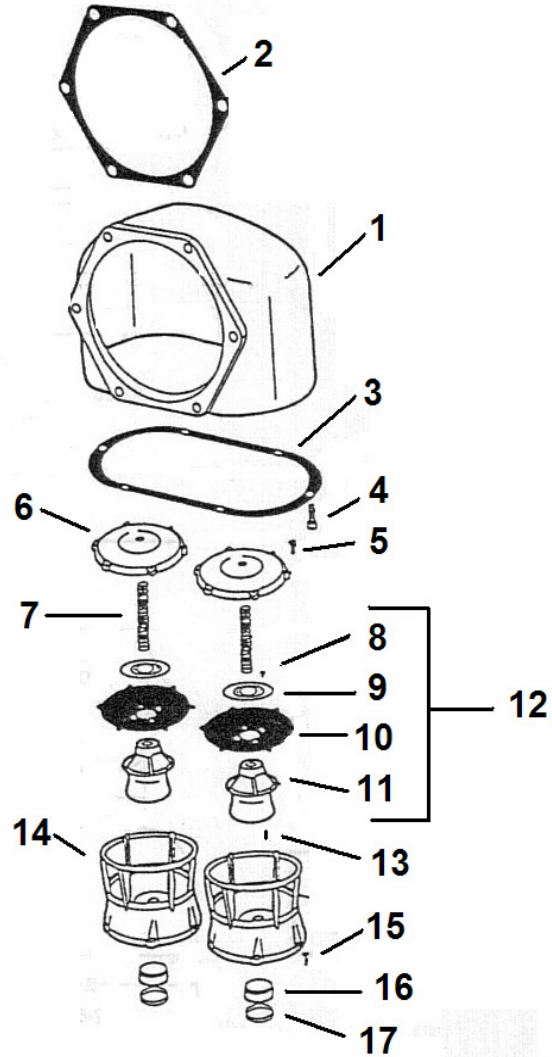
G	H	I
THRTL. SHAFT DIA.	THRTL. SHAFT LENGTH	NPT FUEL INLET
12.7 mm (.50")	315.9 mm (12.4375")	63.5 mm (2.5")
12.7 mm (.50")	315.9 mm (12.4375")	63.5 mm (2.5")
12.7 mm (.50")	315.9 mm (12.4375")	63.5 mm (2.5")

NOTES:

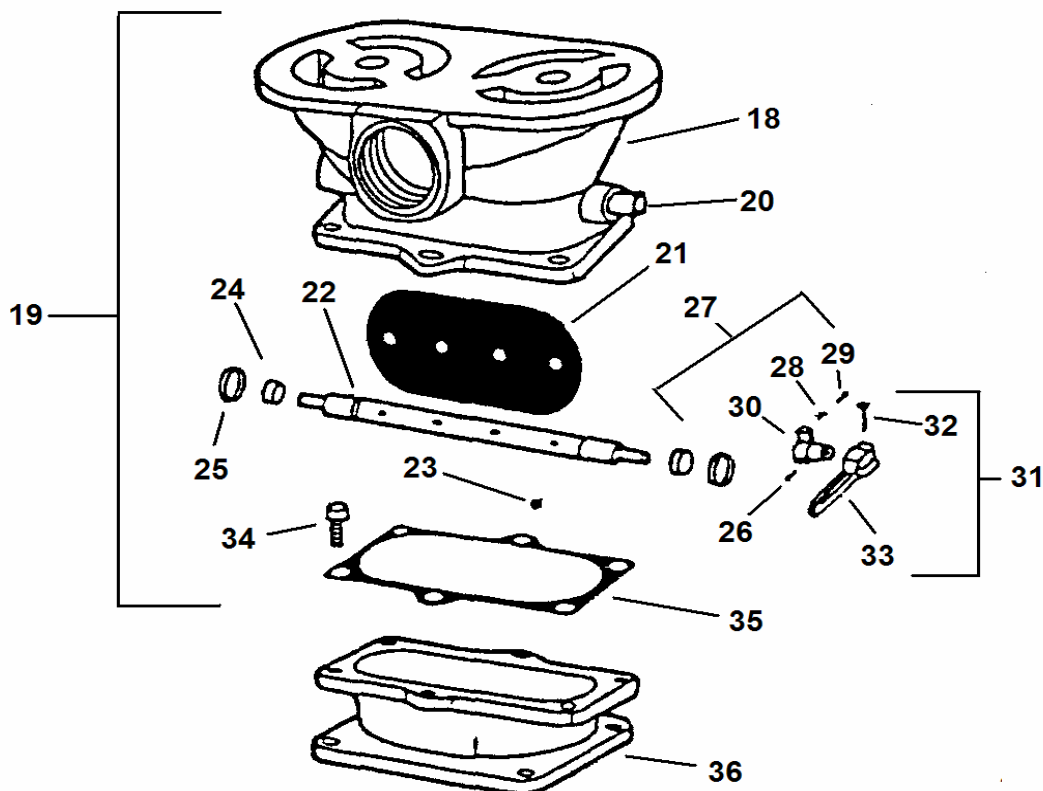
- -X (or DX) indicates downdraft carburetor.
- DG (digester gas) carburetors reduce air flow 30%.
- Refer to A2 Air Horn adapter section for additional dimension information.
- Adapter not shown in picture boxes.

600D SERIES

ITEM #	PART #	DESCRIPTION
1	A2-18	Air Horn, 8" 90°
2	G1-82	Gasket, Air Horn Inlet
3	G1-78-1	Gasket, Air Horn to Throttle Body
4	S1-34	Screw, 3/8" - 16 x 1" SEMS
5	S1-3	Screw, 10-24 x 5/8" SEMS
6	C1-32	Cover
7	S2-32-1 S2-32-2	Spring, Air Valve Updraft Spring, Air Valve Downdraft
8	S1-12	Screw, 8-32 x 5/16" SEMS
9	P2-21	Plate, Backup
10	D1-20-2	Diaphragm Silicone
11	BV1-17	Air Valve, Ass'y Propane
12	AV1-17-2 AD1-20-3	Air gas Valve Ass'y Complete Diaphragm, Ass'y Mixer FVMQ 600
13	S1-3	Screw, 10-24 x 5/8" SEMS
14	B1-30	Body
15	S1-19	Screw, 12-24 x 5/8" SEMS
16	J1-6	Jet
17	S3-39	Seal



600D SERIES



ITEM #	PART #	DESCRIPTION	ITEM #	PART #	DESCRIPTION
18	AT2-18-1	Throttle Body Assembly	30	L1-11-2	Throttle Stop Lever
19	BT2-18-1	Throttle Body Complete	31	AL1-12-2 AL1-38	Throttle Lever, w/ Screw Throttle Lever, w/ Screw
20	P1-6	Pin, Throttle Stop	32	S1-32	Screw, 1/4 - 20 x 7/8"
21	F2-12 F2-20	Fly, 8" Fly, 7.75 X 2.75 Oval	33	L1-12-1	Throttle Lever
22	S5-39	Throttle Shaft, Slotted	34	S1-56	Screw, 1/2 - 13 x 7/8" Hex
23	S1-35	Screw, 10-32 x 3/8 SEMS	35	G1-80	Gasket, Manifold
24	B3-42	Permaglide Bearing	36	A3-38 A3-44	Adapter, Throttle Body Adapter, Throttle Body
25	S3-92	Seal	37	G1-79 G1-85	Gasket, Flange A3-38 Gasket, Flange A3-44
26	S1-18	Pin, Screw Throttle Stop	Not Shown	W1-60	Washer, .500x1.25x.029 SS
27	AL1-11-2	Throttle Stop Assembly	Not Shown	W1-68	Washer, .500x.936x.059 Steel
28	S2-15	Spring, Idle Stop Screw			
29	S1-21	Stop, Screw			



SECTION 1: Carb.URETORS/MIXERS 600D SERIES

MODEL 600D ACCESSORIES

MIXERS: UPDRAFT - STANDARD

PART #	DESCRIPTION
600DM	4" SAE 2B flange, no Air Horn,
600DM-791	4" SAE 2B flange, no Air Horn, special

MIXERS AND Carb.URETOR DESCRIPTIONS

PART #	DESCRIPTION
600D-1-2	Carb. Ass'y, 4" 2B Updraft w/ Silicone
600D-7	Carb. Assembly, 600D
600D-9	Carb. Assembly, 600D
600DX-3-2	Carb., BSVG Ingersoll Rand w/ Silicone
600DX-5-2	Carb., 10 SVG&12SVG Ingersoll Rand w/ Sil.
600DXM-2	Carb., 4" 2B Downdraft, Less Air Horn, w/ Sil.

THROTTLE BODIES

PART #	DESCRIPTION
AT2-18-1	4"SAE flange, 3/4" shaft diameter, w/ Permaglide bearings, (standard)

THROTTLE SHAFTS

PART #	DESCRIPTION
AS5-9	1/2" diameter, 2-7/16" long, with inner bearings, 3/4" O.D. (standard)

AIR GAS VALVES ASSEMBLIES

PART #	DESCRIPTION
AV1-17	Air Gas Valve Assembly
AV1-17-2	Air Gas Valve Assembly, Silicone
AV1-17-3	Air Gas Valve, Ass'y, Silic. Waukesha, Turbo
AV1-17-4	Air Gas Valve Ass'y, w/Diaph 600, w/V2-41
AV1-17-6	Air Gas Valve Ass'y, Waukesha w/ V2-55
AV1-17-7	Air Gas Valve Ass'y, w/ V2-71
AV1-1776	Air Gas Valve Ass'y, w/ V2-76, Silicone
DG-AV1-17-2	Air Gas Valve, Di/Gas (550 - 750BTU), w/ Sil.
LH-AV1-17-2	Air Gas Valve Lo/Heat (750 - 950BTU), w/ Sil.

LEVERS

PART #	DESCRIPTION
AL1-11-2	Stop ass'y, 1/2" mounting I.D., 1" long (standard)
AL1-12-1	Stop ass'y, 3-1/16" long (standard)
AL1-38	Assembly, 5/8" mounting I.D., 6-1/2" long (drilled)

NOTES:

- AL1-12 levers used with AL1-11 lever stops.
- See lever section of catalog for other optional levers.

ADAPTERS

PART #	DESCRIPTION
AA2-16	Air Horn, 90° by 6" to 600
AA2-17	Air Horn, Ingersoll Rand 8SVG
AA2-18	Air Horn, 8" diameter x 90 degrees (side)
AA2-18-2	Air Horn, 8" 90° w/ Baffle
AA2-62	Air Horn, 90° 7" End
AA3-38	Adapter assembly, Ingersoll Rand 8SVG

REPAIR KITS

PART #	DESCRIPTION
RK-B3-42	Repair kit for T2-18, T/B w/ Permaglide bearing
RK-B3-42-1	Retrofit kit to upgrade, T2-18, throttle bodies



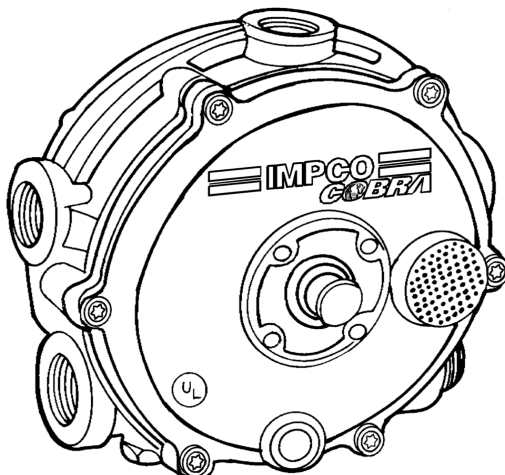
MASTER CATALOG
INTRODUCTION

REGULATORS



IMPCO TECHNOLOGIES Inc.
16804 GRIDLEY PLACE
CERRITOS CA. 90703-1741
Phone - (562)-860-6666
E-Mail - www.impcoweb.com

COBRA SERIES TWO-STAGE CONVERTERS



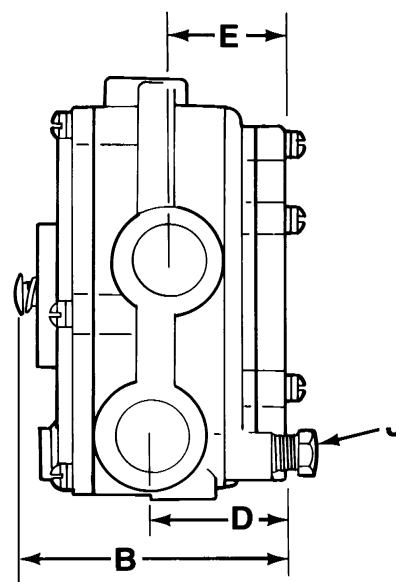
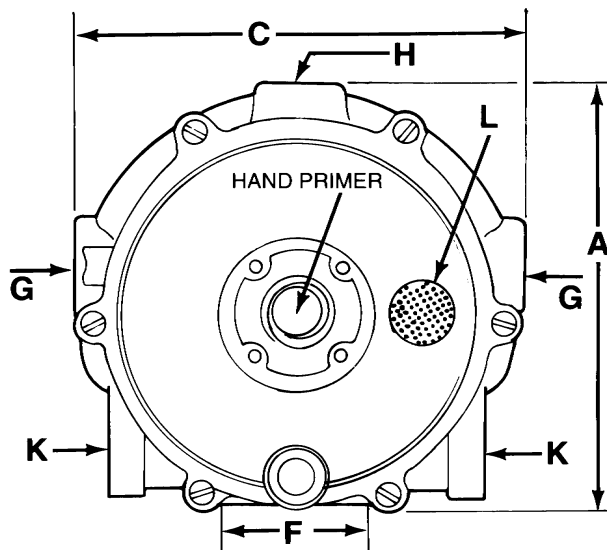
TECHNICAL DESCRIPTION

The IMPCO COBRA® Series converters deliver superior performance and excellent pressure output consistency throughout service life. Three vapor outlet pressures are available. Use of the standard blue secondary spring provides negative 0.37 kPa (-1.5 inches w.c.). The optional orange secondary spring, provides negative 0.12 kPa (-0.5 inch w.c.) and the red secondary spring, negative 0.05 kPa (-0.2 inch w.c.) output.

TECHNICAL SPECIFICATIONS

Fuel Type	Liquid / Vapor Propane
Maximum Inlet Pressure	2,151 kPa (312 psi)
Minimum Inlet Pressure	207 kPa (30 psi)
Primary Pressure	6.9 to 13.8 kPa (1.0 to 2.0 psi)
Nominal Outlet Pressure	
.....	Standard (blue spring) -0.37 kPa (-1.5 w.c.)
.....	Cobra I (orange spring) -0.12 kPa (-0.5 w.c.)
.....	Cobra II (red spring) -0.05 kPa (-0.2 w.c.)
Horsepower Rating	3.7 to 75 kW (5 to 100 hp)
Temperature Range	-40° C to +121° C (-40° to +250° F)
Filtration Requirement	40 micron
Heating Chamber Source	Engine Coolant, Engine Oil, Exhaust Heat can be used w/B3-20 baffle.
Mounting Position	Vertical (outlet down) recommended.
Horizontal (secondary cover up) position can be used when fuel contamination can be controlled with HD-5 specified propane fuel.	
Weight	0.86 kg (1.9 lbs)
Applications	Open Loop, Closed Loop, Forced Induction up to 34.4 kPa (5 psi)

DIMENSIONS



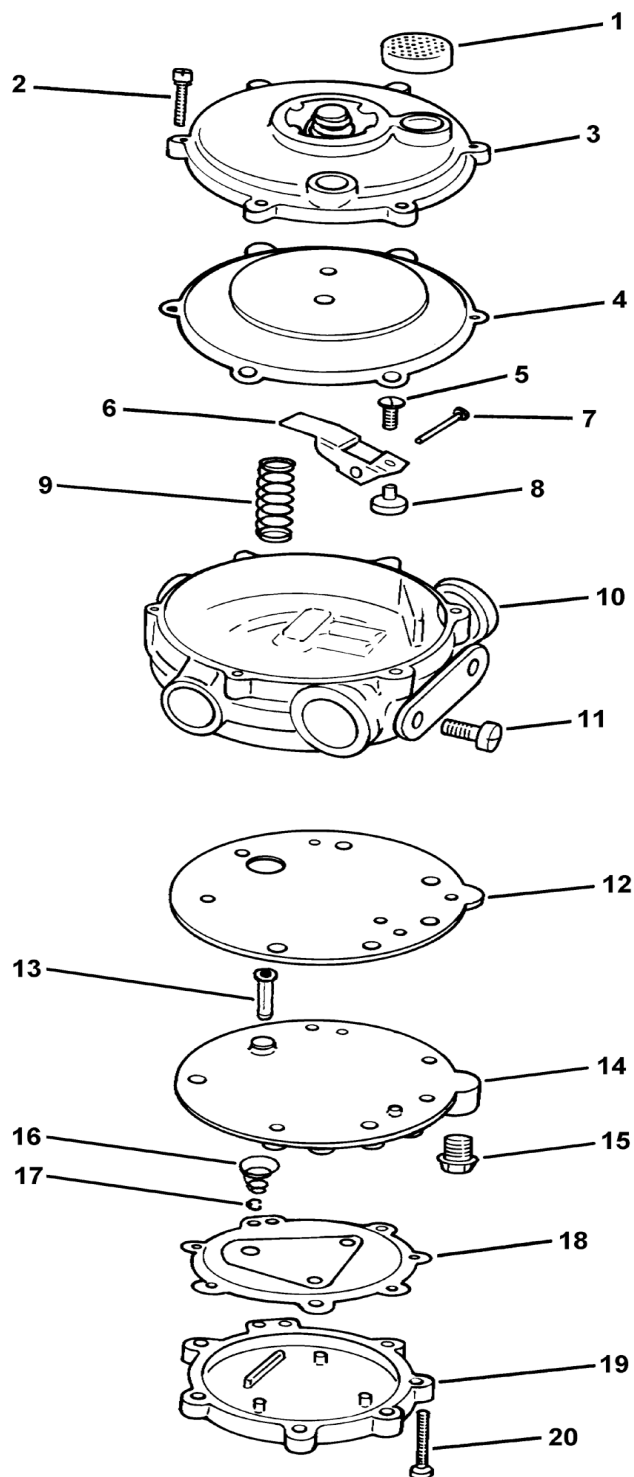
PART #	A	B	C	D	E	F	G	H	J	K	L
	OVERALL HEIGHT	OVERALL DEPTH	OVERALL WIDTH	BACK OF CONVERTER TO CTR. OF VAPOR FUEL OUTLET	BACK OF CONVERTER TO CTR. OF WATER OUTLET	MOUNTING HOLES CTR. TO CTR.	COOLANT INLET AND OUTLET (NPT)	LIQUID FUEL INLET (NPT)	PRIMARY TEST PORT (NPT)	VAPOR FUEL OUTLET (NPT)	VENT BALANCE LINE CONN. (NPT)
COBRA	108 mm (4.250")	70.3 mm (2.781")	117 mm (4.625")	41.3 mm (1.625")	34.9 mm (1.375")	41.3 mm (1.625")	3/8"	1/4"	1/8"	1/2"	1/8"

MODEL COBRA PRESSURE REGULATORS

ITEM #	PART #	DESCRIPTION
1	S7-4	Screen, atmospheric vent
2	S1-15265-003	Screw, 8-32 x 7/8" Torx style (6)
3	NSS	Cover ass'y, secondary
4	NSS	Diaphragm ass'y, secondary, fluorosilicone
5	NSS	Screw, 8-32 x 1/2" Torx style
6	L1-37	Lever, secondary
7	P1-8	Pin, secondary fulcrum
8	S4-27*	Seat, secondary
9	S2-35	Spring, blue secondary, -0.37 kPa (-1.5" H2O), standard
	S2-38	Spring, orange secondary, -0.12 kPa (-0.5" H2O), optional
	S2-136	Spring, red secondary -0.05kPa (-0.2"H2O)
10	NSS	Body ass'y, w/ jet
Not Shown	NSS	Plug, vapor outlet
11	S1-5	Screw, 1/4-20 x 5/8" (2)
12	G1-150	Gasket, body to body cover plate
13	NSS	Pin, valve primary
14	NSS	Plate, body cover
15	P3-13	Plug, 1/8 NPT, hex head
16	NSS	Spring, primary
17	NSS	E-ring, external
18	NSS	Diaphragm ass'y, primary
19	NSS	Cover, primary
20	NSS	Screw, 8-32 x 1-1/8" Torx style (7)

NSS = Not Serviced Separately

* Included in Repair Kit





STANDARD AND OPTIONAL EQUIPMENT

STANDARD CONVERTERS

MODEL	SECONDARY DIAPHRAGM	OUTLET PRESSURE
COBRA	AD1-27-5 (Fluorosilicone)	Neg. 370 Pa (Neg. 1.5 "H2O)
COBRA-1	AD1-27-5 (Fluorosilicone)	Neg. 120 Pa (Neg. 0.5 "H2O)
CB-30177	Converter Ass'y, Cobra	
CB-30580-001	Converter Ass'y, Cobra	
CB-30580-002	Converter Ass'y, Cobra	
CB-30580-004	Converter Ass'y, Cobra	
CB-30712-001	Cobra Ass'y, Primerless	Neg. 370 Pa (Neg. 1.5 "H2O)
CB-30712-002	Cobra Ass'y Primerless	Neg. 370 Pa (Neg. 1.5 "H2O)
CB-441	Cobra, w/Left Hand Plug	
CB-R-772	Cobra w/ Right Hand Plug	
CS4-30772-004	Cobra, L4, Sub-ass'y	
P-COBRA	Positive Presure Cobra	

REPAIR KITS

PART #	DESCRIPTION
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RK-COBRA Standard repair kit

ACCESSORIES

PART #	DESCRIPTION
AB1-28	Mechanical primer, COBRA Series converters
SV	Start assist valve
VPV	Vacuum power valve
AF4-14883	Check Valve

MODEL E & PE SERIES TWO-STAGE CONVERTERS

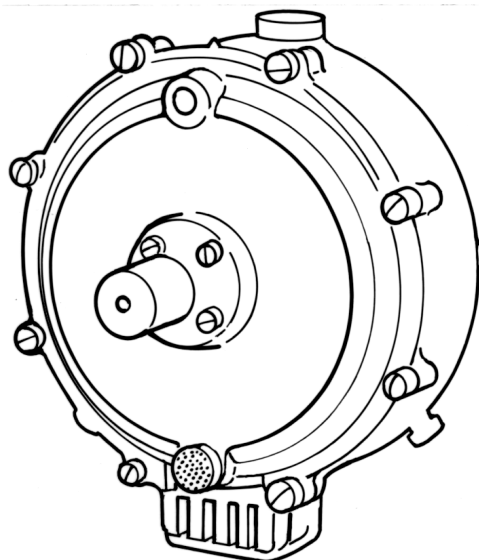
TECHNICAL DESCRIPTION

The IMPCO Model E & PE Series are two-stage regulator/converters. It is engine coolant heated to assist liquid fuel vaporization. Diagnostic test ports are standard for both the primary and secondary pressure chambers, and a choice of diaphragm materials is available. E & PE Series regulator/converters are renewable with the appropriate repair kits.

The Model E Series provides a negative outlet pressure, with two pressures available. The only difference between the standard and the optional unit is the secondary outlet spring. The standard model EB utilizes a blue spring, while the optional EO model uses an orange spring. These optional pressures can

be used to fine tune special engine applications. The orange spring makes a good choice for cold weather start-ups due to the lower negative "give-up," however, it will also provide for richer fuel mixtures relative to the standard blue spring. A manual primer is standard on the Model E.

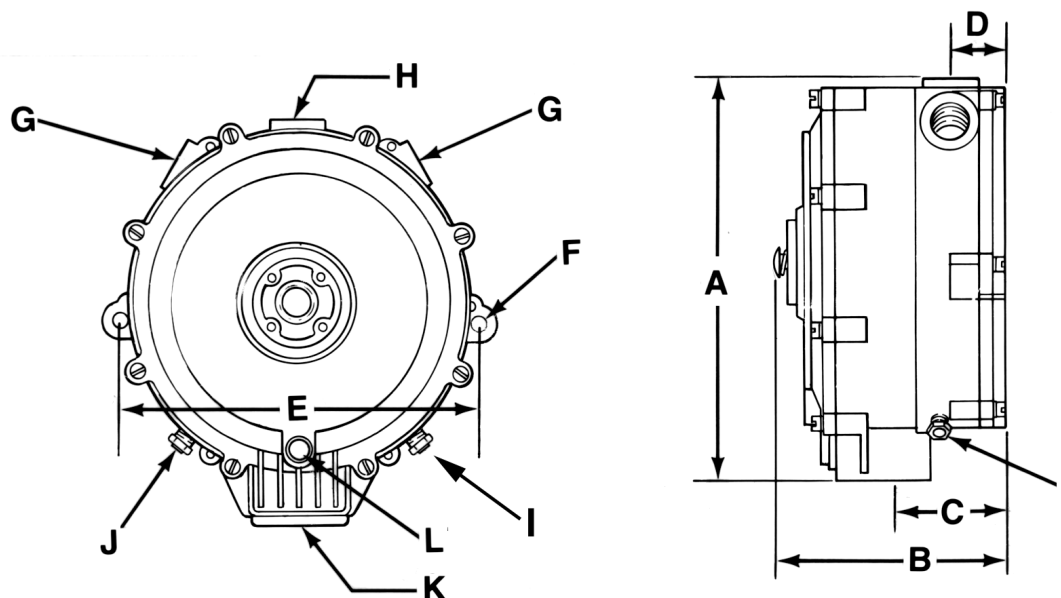
The Model PE Series provides a positive outlet pressure. It is offered for special applications that require positive pressure and/or the ability to vaporize liquid fuel, or for situations where regulatory code or specifications require a positive feed system. Although the standard IMPCO natural gas systems use positive pressure, a heated regulator / converter is not required of CNG, and it is recommended that the Model PEV be used for these systems. Additional mixture stability is possible with the PE, though, as a result of a more consistent fuel temperature gained through the use of the heated labyrinth. While the PE is supplied as a fixed outlet pressure regulator, it can be converted to an adjustable unit with the AC1-74 retrofit kit.



SPECIFICATIONS

Type	Liquid Withdrawal
Capacity	150 kW (200 hp) - PE-7-3 22K Kw (300 hp)
Fuel Lock	Required
Mounting Position	Horizontal
Maximum Input Pressure	2,150 kPa (312 psi)
Operating Pressure:	
Model E	
Primary Chamber	6.9 - 13.8 kPa (1.0 - 2.0 psi)
Secondary Chamber	-370. Pa (-1.5" w.c.) Standard, 125. Pa
Model PE	
Primary Chamber	10.5 - 24.0 kPa (1.5 - 3.5 psi)
Secondary Chamber	1,100. Pa (4.5 in w.c.) fixed
Operating Temperature Range	-40° C to 120° C (-40° F to 250° F)
Certification	UL, ULC, RQD E4 #67, RRC (for PE-3 only)
Weight	2.0 Kg (4.12 lbs.)

DIMENSIONS



	A	B	C	D	E	F	G	H	I
STANDARD CONVERTER	OVERALL HEIGHT	OVERALL DEPTH	BACK OF CONVERTER TO CTR. OF VAPOR FUEL OUTLET	BACK OF CONVERTER TO CTR. OF WATER OUTLET	MOUNTING HOLES CTR. TO CTR.	MOUNTING HOLES DIA.	COOLANT INLET AND OUTLET (NPT)	LPG FUEL INLET (NPT)	PRIMARY TEST PORT (NPT)
EB, EB-2	184 mm (7.250")	102 mm (4.000")	50.8 mm (2.000")	22.2 mm (0.875)	168 mm (6.625)	7.1 mm (0.281")	3/8"	1/4"	1/8"

PE	184 mm (7.250")	114 mm (4.500")	50.8 mm (2.000")	22.2 mm (0.875)	168 mm (6.625)	7.1 mm (0.281")	3/8"	1/4"	1/8"
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	J	K	L
STANDARD CONVERTER	SECONDARY ACCESSORY PORT (NPT)	VAPOR FUEL OUTLET (NPT)	VENT BALANCE LINE (NPT)
EB, EB-2	1/8"	1"	1/8"

PE	1/8"	1"	1/8"
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MODEL E AND PE SERIES

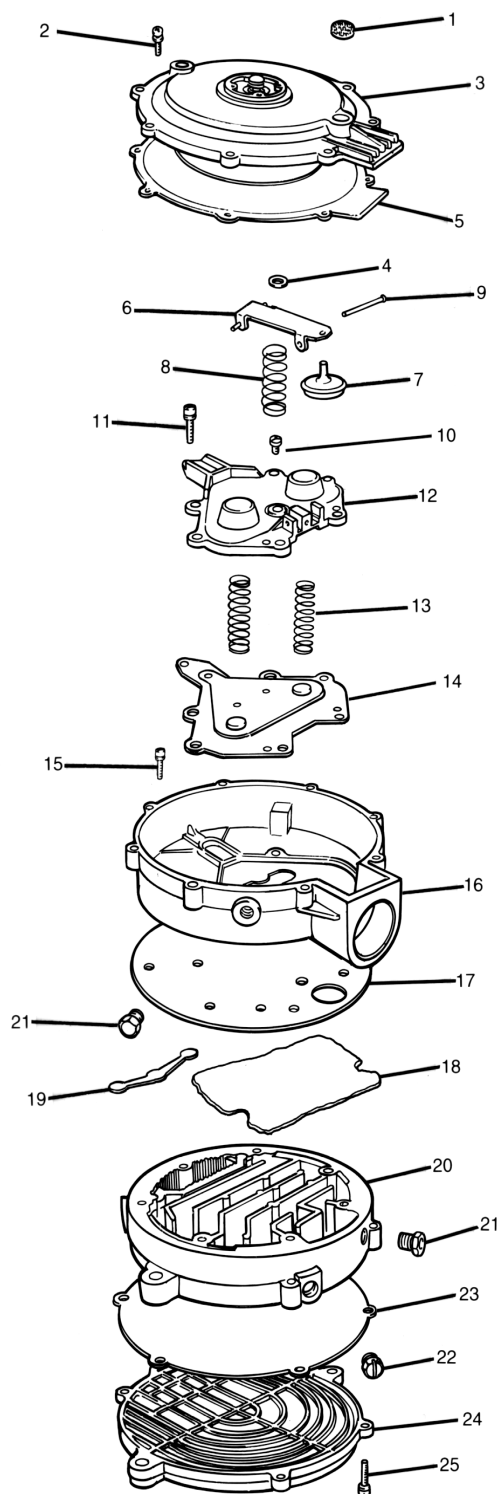
ITEM #	PART #	DESCRIPTION
1	S7-1	Screen, atmospheric vent
2	S1-3 *	Screw, 10-24 x 5/8" SEMS (8)
3	ACI-22-2	Cover ass'y, secondary PE Black Anodized
4	NSS	Washer, hand primer
5	AD1-14-1 * ‡	Diaphragm ass'y, secondary, Hydrin
	AD1-23 * ‡	Diaphragm ass'y, secondary, silicone
6	AL1-86	Lever, secondary
7	S4-37	Seat, secondary (new)
8	S2-22	Spring, secondary regulator (blue), standard
	S2-23	Spring, secondary regulator (orange), optional
9	NSS	Pin, secondary lever fulcrum
10	S1-40 *	Screw, 10-24 x 3/8" SEMS (2)
11	S1-39	Screw, 12-24 x 7/8" SEMS (7)
12	NSS	Cover, primary diaphragm
	S2-13	Spring, primary regulator (2) EB
	S2-42	Spring, primary lever, PE & EB
13	S2-15273	Spring, primary lever, PEV 1-8 only
14	AD1-15	Diaphragm ass'y, primary
15	P1-11	Pin, primary valve
16	AB1-20	Body, regulator E series
17	G1-37 *	Gasket, regulator body
18	F3-1 *	Sponge
19	S4-7	Seat, primary
20	AB1-19-1	Body, ass'y, heat exchanger
21	NSS	Plug, hex head, 1/8 NPT (2)
22	P3-13	Plug, brass, 1/8 NPT, water drain
23	G1-30079	Gasket, heat exchanger cover
24	NSS	Cover, heat exchanger
25	S1-3 *	Screw, 10-24 x 5/8" SEMS (6)

NSS = Not Serviced Separately

* Repair kit components.

† Two vapor outlet pressures are available. Orange secondary spring gives Neg. 120 kPa (Neg. 0.50 in H₂O) pressure. Blue secondary spring gives Neg. 370 kPa (Neg. 1.50 inH₂O) pressure
To change any B regulator to O, change blue secondary spring to orange.

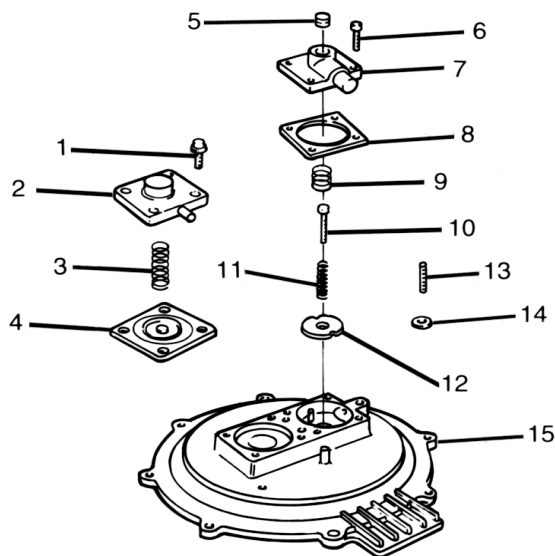
‡ For Model E only.



MODEL E AND PE SERIES (CONTINUED)

MODEL E COVER ASSEMBLY

ITEM #	PART #	DESCRIPTION
1	S1-59	Screw, 8-32 x 5/8" SEMS (4)
2	NSS	Cover, diaphragm
3	NSS	Spring, diaphragm
4	NSS	Diaphragm ass'y for EC1
5	NSS	Plug, 1/16 NPT
6	S1-59	Screw, 8-32 x 5/8" SEMS (4)
7	NSS	Cover, EC1-3
8	NSS	Gasket, EC1 body
9	NSS	Spring, valve
10	S1-86	Screw, 6-32 x 7/8" adjustment
11	NSS	Spring, adjustment lock
12	NSS	Valve, disk
13	NSS	Screw, 10-32 x 3/4" Allen set
14	NSS	Nut, 10-32
15	NSS	Cover ass'y



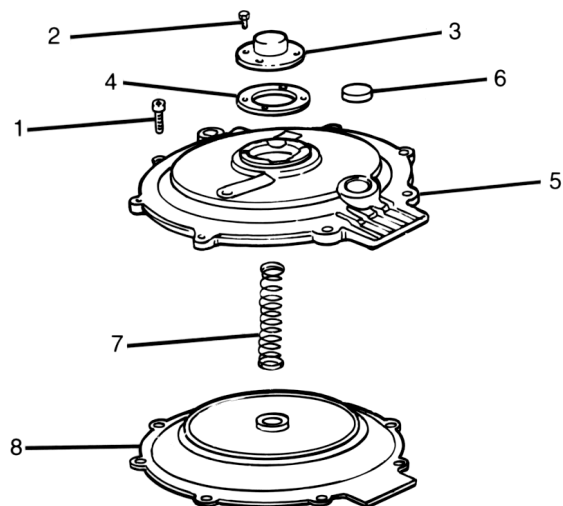
MODEL PE COVER ASSEMBLY

ITEM #	PART #	DESCRIPTION
1	S1-3 *	Screw, 10-24 x 5/8" SEMS (8)
2	S1-101 *	Screw, 6-32 x 1/4" SEMS (4)
3	H3-3	Housing spring
4	G1-84 *	Gasket, spring housing
5	AC1-22-2	Cover ass'y
6	S7-1	Screen, atmospheric vent
7	S2-37	Spring, secondary
8	AD1-14-2 *	Diaphragm ass'y, secondary, Hydrin

* Repair kit component.

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

NSS = Not Serviced Separately





SECTION 2: PRESSURE REGULATORS MODEL E & PE SERIES

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.

GAUGE

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

PRIMER

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

EC1 ACCESSORIES

PART #	DESCRIPTION
H1-5	Hose 1/4" O.D, Neoprene

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
PE-7-3	Hydrin	Converter, Ass'y. Low Pressure
EB	Hydrin	Regulator, Ass'y
EB-2	Silicone	Regulator, Ass'y
EB-2ULC	Silicone	Regulator, Ass'y Canada

DIAPHRAGMS

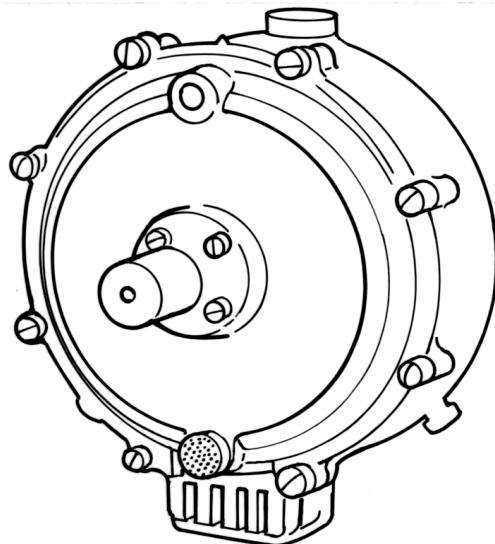
PART #	DESCRIPTION
AD1-23	Diaphragm Ass'y, Secondary, VMQ E
AD1-23-2	Diaphragm Ass'y, Secondary, VMQ PE
AD1-23-3	Diaphragm Ass'y, Secondary, FVMQ PE
AD1-23-4	Diaphragm Ass'y, Secondary, FVMQ E

MODEL EV & PEV SERIES TWO-STAGE CONVERTERS**TECHNICAL DESCRIPTION**

The IMPCO Model EV & PEV Series are two-stage regulator / 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 regulator / converters are renewable with the appropriate repair kits.

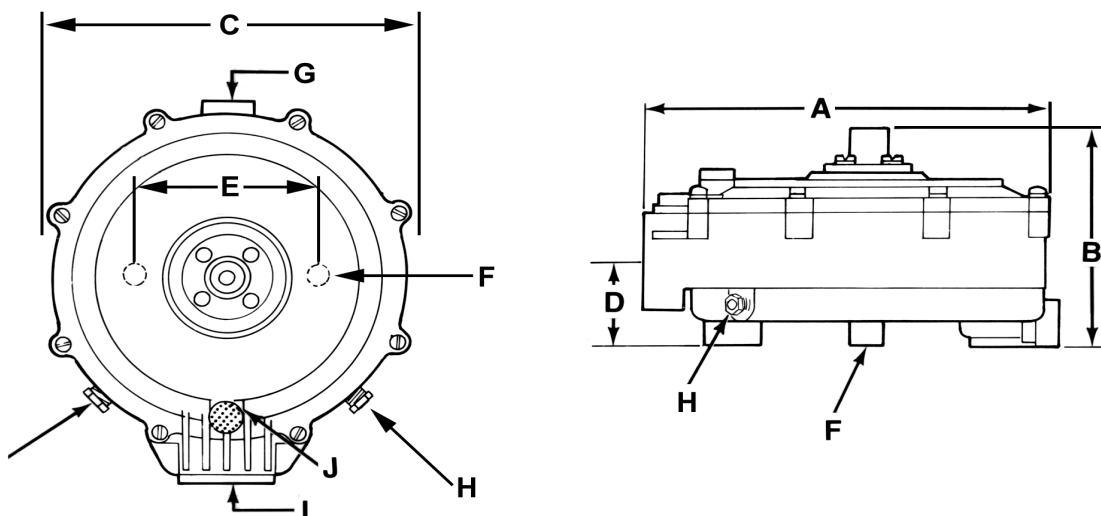
The EV Series regulator is used primarily on propane fuel systems that require a negative pressure but do not require fuel vaporization. The EV is only available with the standard “B” (blue) spring. It is possible, however, to convert the unit to use with the optional “O” (orange) spring.

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 outlet pressures. 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 is 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 Requirement	40 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)

DIMENSIONS



	A	B	C	D	E	F	G	H	I	J
STANDARD CONVERTER	OVERALL HEIGHT	OVERALL DEPTH	OVERALL WIDTH	BACK OF CONVERTER TO CTR. VAPOR FUEL OUTLET	MOUNTING HOLES CTR. TO CTR.	MOUNTING HOLES DIA.	FUEL INLET (NPT)	PRIMARY TEST PORT (NPT)	VAPOR FUEL OUTLET (NPT)	VENT BALANCE LINE CONNECTION (NPT)
EV	181 mm (7.250")	88.9 mm (3.500")	152 mm (6.000")	38.1 mm (1.500")	127 mm (5.000")	1/4"-20	1/4"	1/8"	1"	1/8"
EV-2	181 mm (7.250")	95.3 mm (3.750")	152 mm (6.000")	38.1 mm (1.500")	127 mm (5.000")	1/4"-20	1/4"	1/8"	1"	1/8"
PEV	181 mm (7.250")	95.3 mm (3.750")	152 mm (6.000")	38.1 mm (1.500")	127 mm (5.000")	1/4"-20	1/4"	1/8"	1"	1/8"
PEV-1	181 mm (7.250")	73.0 mm (4.500")	152 mm (6.000")	38.1 mm (1.500")	127 mm (5.000")	1/4"-20	1/4"	1/8"	1"	1/8"
PEV-1-1	181 mm (7.250")	73.0 mm (4.500")	152 mm (6.000")	38.1 mm (1.500")	127 mm (5.000")	1/4"-20	1/4"	1/8"	1"	1/8"

MODEL EV & PEV SERIES CONVERTERS

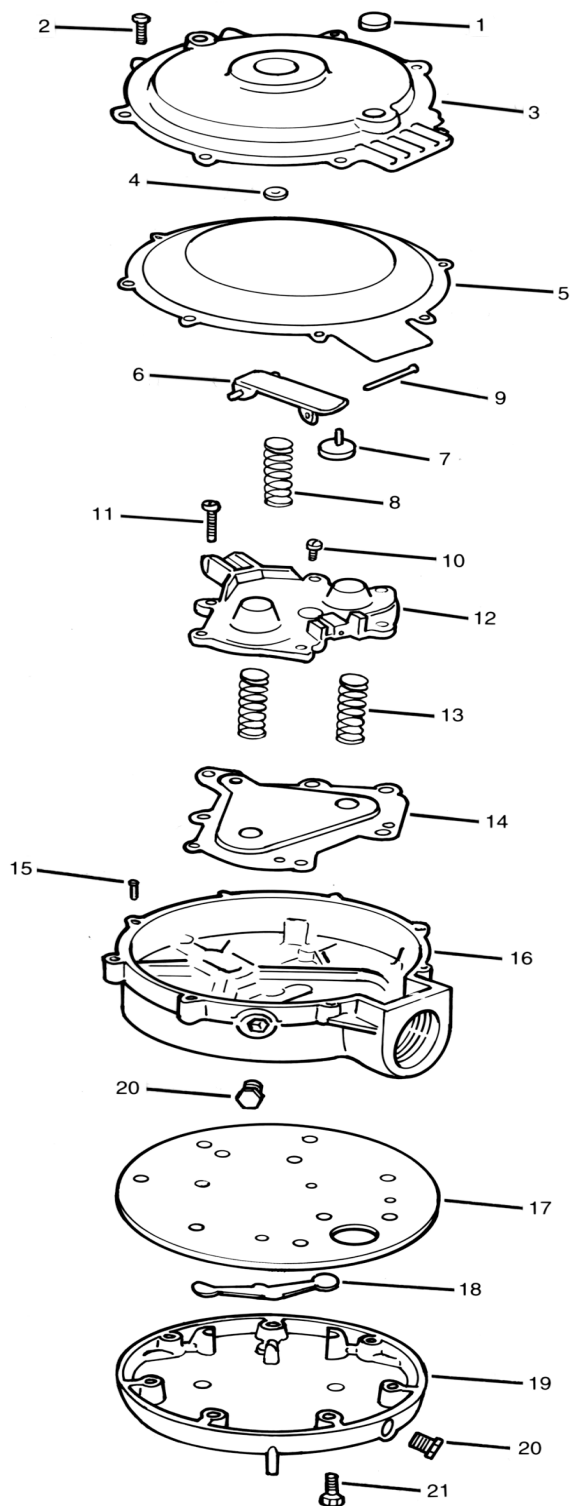
ITEM #	PART #	DESCRIPTION
1	S7-1	Screen, atmospheric vent
2 *	S1-3	Screw, 10-24 x 5/8" SEMS (8)
3	NSS	Cover ass'y, front (EV only)
5 *	AD1-14-1	Diaphragm ass'y, secondary, Hydrin
	AD1-23	Diaphragm ass'y, secondary, silicone (EV only)
6	AL1-86	Lever, secondary
7 *	NSS	Seat, secondary (new)
8 **	S2-22	Spring, secondary regulator (blue) standard (EV only)
	S2-23	Spring, secondary regulator (orange) optional (EV only)
9	NSS	Pin, secondary lever fulcrum
10 *	S1-40	Screw, 10-24 x 3/8" SEMS (2)
11 *	S1-39	Screw, 12-24 x 1.0" SEMS (7)
12	NSS	Cover, primary diaphragm
13	S2-42	Spring, primary regulator (2)
	S2-15273	Spring, primary regulator (2), PEV-1-8 only
14 *	AD1-15	Diaphragm ass'y, primary
15	P1-11	Pin, primary valve
16	AB1-20	Body, regulator E series
17 *	G1-37	Gasket, regulator body
18 *	S4-7	Seat, primary
19	NSS	Body, ass'y, regulator
20	NSS	Plug, brass, 1/8 NPT, water drain
21	NSS	Plug, hex head, 1/8 NPT (2)
25 *	NSS	Screw, 1/4-20 x 5/8" SEMS (6)

NSS = Not Serviced Separately

* Repair kit components.

** Two vapor outlet pressures are available. Orange secondary spring gives -370 kPa (-1.50" H2O) pressure.

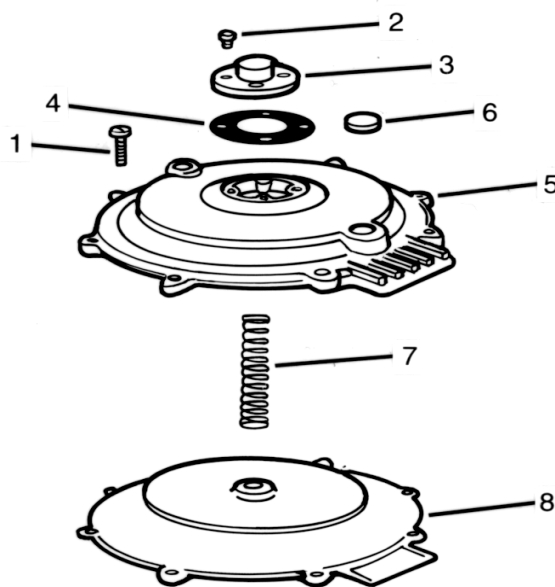
To change any B regulator to O change blue secondary spring to orange.



STANDARD AND OPTIONAL EQUIPMENT

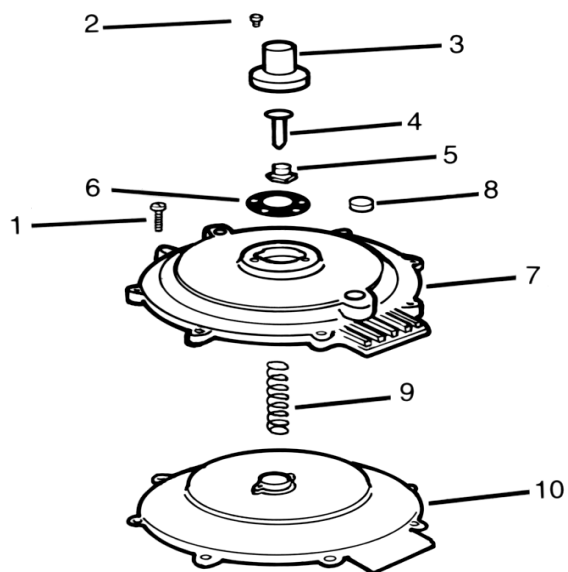
AC1-22-2 COVER PEV SERIES

ITEM #	PART #	DESCRIPTION
1	S1-3*	Screw, 10-24 x 5/8" SEMS (8)
2	S1-101*	Screw, 6-32 x 1/4" SEMS (4)
3	H3-3	Housing, spring
4	G1-84*	Gasket, spring housing
5	AC1-22-2	Cover ass'y
6	S7-1	Screen, atmospheric vent
7	S2-37	Spring, secondary
	S2-42	Spring, secondary, PEV-1-8 only
8	AD1-14-2*	Diaphragm assembly, secondary, Hydrin



AC1-22-2 COVER WITH AC1-74 PEV-1 SERIES

ITEM #	PART #	DESCRIPTION
1	S1-3 *	Screw, 10-24 x 5/8" SEMS (8)
2	S1-101 *	Screw, 6-32 x 1/4" SEMS (4)
3	C1-74#	Cover, adjustable PEV
4	NSS#	Screw, PEV adjustment
5	N1-21#	Nut, PEV spring perch
6	G1-84 *	Gasket, spring housing
7	AC1-22-2	Cover assembly
8	S7-1	Screen, atmospheric vent
9	S2-37	Spring, secondary, 0.922 to 1.62 kPa (3.7 to 6.5") brown
	S2-42	Spring, secondary, 1.25 to 2.24 kPa (5.0 to 9.0")
	S2-106 #	Spring, secondary, 0.498 to 0.697 kPa (2 to 2.8") zinc
	S2-109#	Spring, secondary 0.673 to 0.959 kPa (2.7 to 3.85") white
10	AD1-14-2*	Diaphragm assembly secondary, Hydrin



NSS = Not Serviced Separately

* Indicates repair kit component

Indicates part of AC1-74 retrofit kit

STANDARD AND OPTIONAL EQUIPMENT (CONTINUED)

AC1-74 ADJUSTABLE COVER

REGULATOR	SPRING NUMBER	PRESSURE RANGE
PEV-1	S2-37	0.92 to 1.62 kPa (3.7 to 6.5" w.c.)
	S2-42	1.25 to 2.24 kPa (5.0 to 9.0" w.c.)
	S2-106	.50 to 0.70 kPa (2.0 to 2.8" w.c.)
	S2-109	.67 to 0.96 kPa (2.7 to 3.9" w.c.)



STANDARD AND OPTIONAL EQUIPMENT

MODEL	SECONDARY DIAPHRAGM	FUEL OUTLET PRESSURE
EV	Hydrin	Neg. 0.37 kPa (Neg. 1.5" H2O)
PEV	Hydrin	1.27 kPa (5.1" H2O)
PEV-1	Hydrin	0.92 to 1.62 kPa (3.7 to 6.5" H2O)
PEV-1-1		Regulator Ass'y
PEV-1-8		Regulator Ass'y FSI, Non-adjustable
PEV-1-856		Converter, Ass'y
PEV-3	Hydrin	+2.7" to +3.85"

OPTIONAL EQUIPMENT

PART #	DESCRIPTION
AB1-28	Mechanical primer, EV series only
AC1-74	Retrofit kit, PEV adjustable cover
SV	Valve, starting electric solenoid

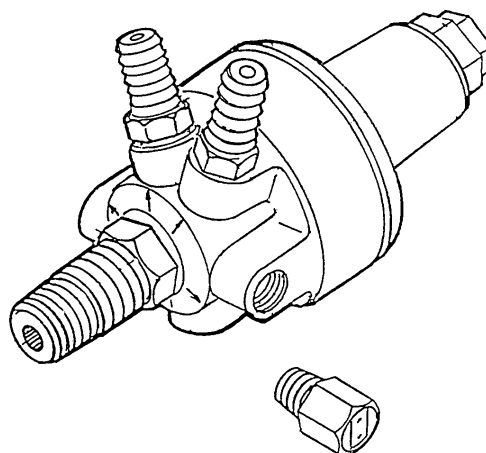
REPAIR KITS

PART #	DESCRIPTION
RK-PEV	Repair kit, Model PEV
RK-PEV-2	Repair kit, Model PEV, Silicone
RK-TPEV	Repair kit, Turbo

HPR 3600 HIGH PRESSURE REGULATOR FOR NATURAL GAS ENGINES

TECHNICAL DESCRIPTION

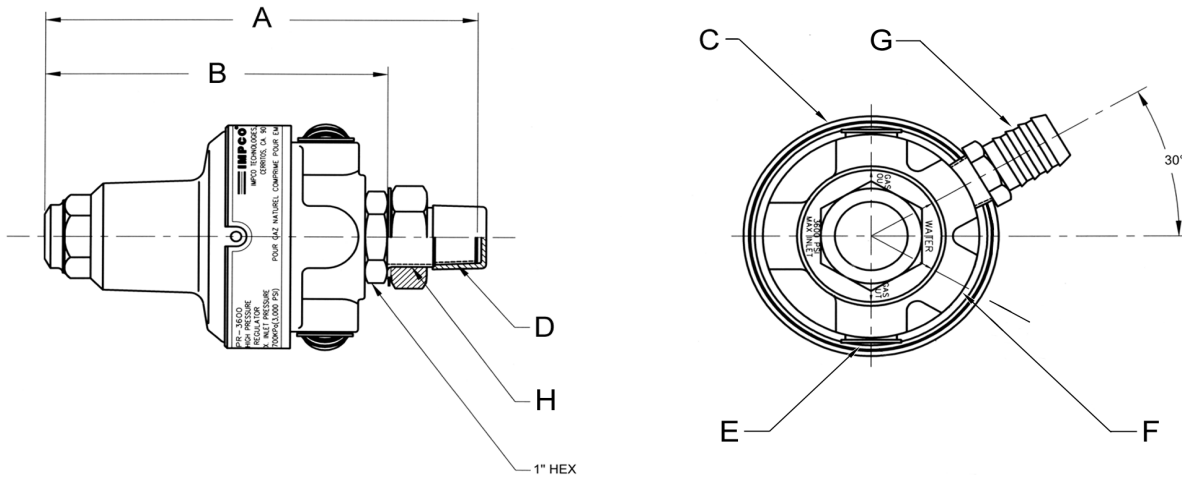
The HPR-3600 is a single stage high pressure regulator designed for high pressure CNG (compressed natural gas) systems. This regulator is engine coolant heated to prevent freezing and has dual outlet ports for universal installation flexibility. The HPR is rated up to 24,800 kPa (3,600 psi) inlet and provides a regulated outlet pressure of $1,030 \pm 140$ kPa (150 ± 20 psi) which makes it compatible with the IMPCO "P" (positive) type regulators. It is also supplied with an external pressure relief valve which is calibrated to open if outlet pressure exceeds 2,760 kPa (400 psi). Regulatory approvals include UL and AGA/CGA. TUV certification is available with the 989C model only.



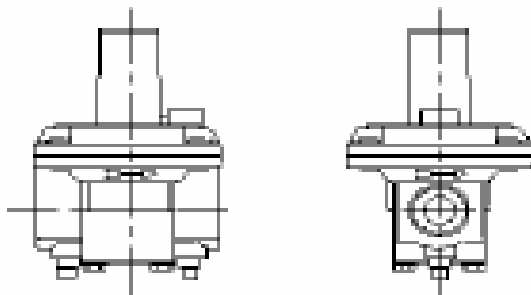
TECHNICAL SPECIFICATIONS

Fuel Type	Compressed Natural Gas Vapor (CNG) / Compressed Methane, (LNG).
Maximum Inlet Pressure	24,800 kPa (3,600 psi)
Minimum Inlet Pressure	1,723.7 kPa (250 psi). Service rating is derated at pressures less than 3,447.4 kPa (500 psi).
Nominal Outlet Pressure	1,034.2 kPa (150 psi) +/- 20 psi
Horsepower Rating	149 kW @ 10,342 kPa (200 hp @ 1,500 psi) inlet
Temperature Range	-40° C to +121° C (-40° F to +250° F)
Filtration Requirement	40 micron
Pressure Relief Valve	2,757.9 (400 psi)
Mounting Position	Horizontal or vertical positions can be used. Specific instructions are to install with the fuel outlet in the "down" position.
Weight	1.179 kg (2.6 lbs)
Applications	Automotive, Industrial, Stationary, and Portable

DIMENSIONS



	A	B	C	D	E	F	G	H
	OVERALL LENGTH	MOUNTING LENGTH	DIAMETER	FUEL INLET (NPT)	FUEL OUTLET (NPT)	WATER INLET AND OUTLET (NPT)	WATER INLET AND OUTLET HOSE BARB	MOUNTING THREAD NUT
HPR-3600	132 mm (5.21")	104 mm (4.10")	72.0 mm (2.85")	3/8" - 18	1/4"	1/4" - 18	3/8" O.D.	1-1/8" Hex, 3/4"-16 UNF-2A

IMP SERIES PRESSURE REDUCTION VALVES**TECHNICAL DESCRIPTION**

The IMPCO IMP Series regulators are low pressure dry gas reduction regulators intended for use with propane or natural gas. Typical applications include all types of stationary gas fired equipment utilizing a low pressure fuel supply. The IMP regulators feature a unique conical valve design, which permits low resistance straight-through flow. This design provides high flow at low inlet pressures and enables the regulators to handle high capacity application with limited supply pressure. The IMP series regulators are made of high strength pressure cast aluminum.

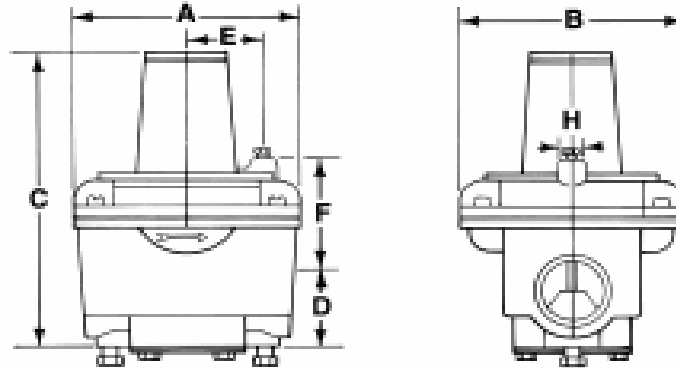
TECHNICAL SPECIFICATIONS

Fuel Type	Secondary, propane or natural gas
Max. Inlet Pressure	20" w.c. max.
Outlet Pressure	750 to 1500 Pa (3" to 6" in H ₂ O)
Capacity	
IMP 52	12.7m ³ /h (450f ³ /h)
IMP 53	20.1m ³ /h (710f ³ /h)
IMP 61	31.1m ³ /h (1100f ³ /h)
Temperature Range	-40 to +96° C (-40° to +205° F)

Mounting Position	Any orientation
Weight	0.86 kg (1.9 lbs.)
Applications	Open Loop, Closed Loop, Forced Induction up to 34.4 kPa (5 psi)

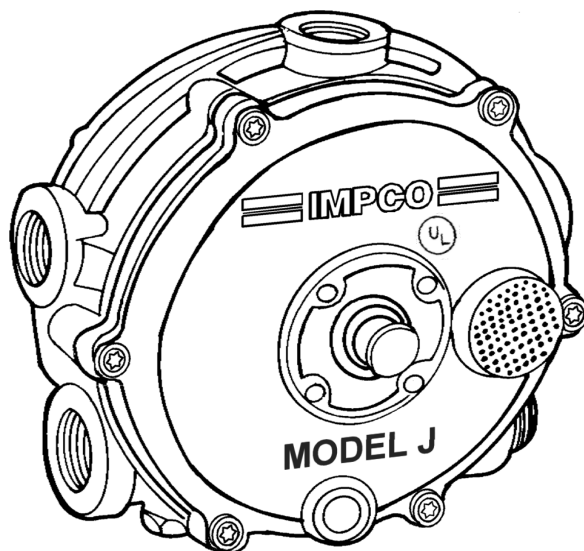
The IMP Series regulator can be installed as a negative pressure valve by removing the regulator spring and mounting the valve upside-down.

MODEL IMP PRESSURE REDUCTION VALVE



	A	B	C	D	E	F	G	H	
STD. PRESSURE REDUCT. VALVES	OVERALL LENGTH	OVERALL WIDTH	OVERALL HEIGHT	BOTTOM TO CENTER OF VAPOR FUEL OUTLET	CENTER LINE TO CENTER OF VENT BOSS	CENTER OF VAPOR OUTLET TO TOP OF VENT BOSS	INLET AND OUTLET NPT	VENT BOSS DIAMETER	USED WITH
IMP 52	80.96 mm (3.1875")	82.55 mm (3.25")	128.58 mm (5.0625")	38.1 mm (1.5")	27.78 mm (1.09375")	50.8 mm (2.0")	3/4"	1/8"	CA-55/100 SERIES
IMP 53	82.93 mm (3.625")	98.42 mm (3.875")	141.28 mm (5.5625")	34.13 mm (1.34375")	37.30 mm (1.46875")	59.53 mm (2.34375")	1"	1/8"	200 SERIES
IMP 61	111.12 mm (4.375")	87.31 mm (3.4375")	163.51 mm (6.4375")	42.06 mm (1.65625")	46.83 mm (1.84375")	73.02 mm (2.875")	1 1/4"	1/8"	400VF/200T SERIES
IMP 81	152.40 mm (6.0")	228.60 mm (7.0")	212.72 mm (8.375")	51.58 mm (2.03125")	60.32 mm (2.375")	79.37 mm (3.125")	1 1/2"	1/8"	400VF/200T/600 SERIES
IMP 91	180.97 mm (7.125")	231.77 mm (9.125")	266.7 mm (10.5")	61.91 mm (2.4375")	82.55 mm (3.25")	106.36 mm (4.1875")	2"	1/8"	600D/600VF SERIES

MODEL J SERIES TWO-STAGE CONVERTER



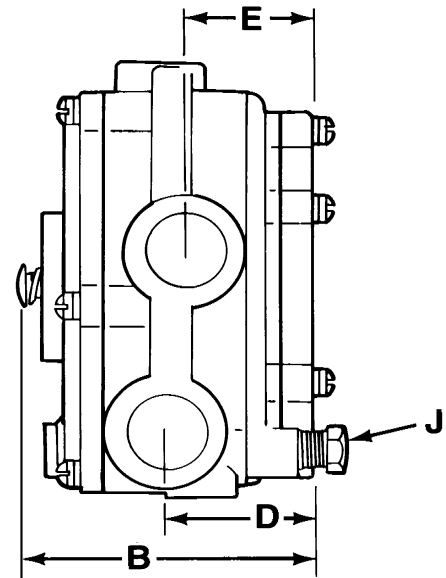
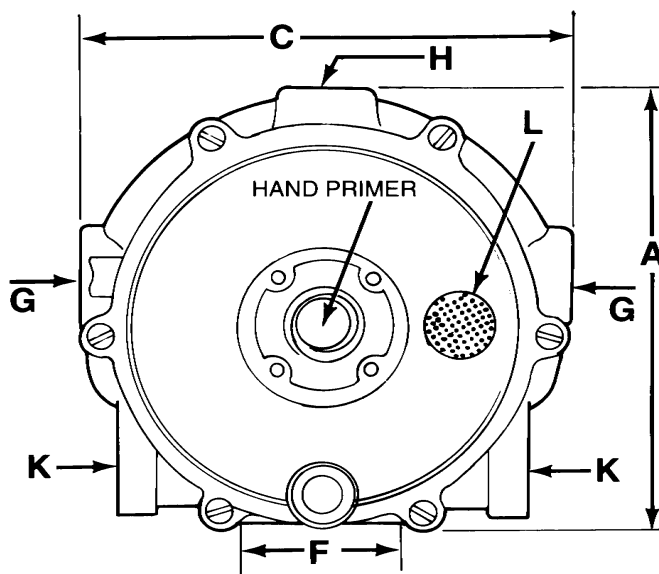
TECHNICAL DESCRIPTION

The IMPCO Model J Series converters deliver superior performance and excellent pressure output consistency throughout service life. Three vapor outlet pressures are available. Use of the standard blue secondary spring provides negative 0.37 kPa (-1.5 inches w.c.). The optional orange secondary spring provides negative 0.12 kPa (-0.5 inch w.c.) and the red secondary spring negative 0.05 kPa (-0.2 inch w.c.) output.

TECHNICAL SPECIFICATIONS

Fuel Type	Liquid / Vapor Propane
Max. Inlet Pressure	2,151 kPa (312 psi)
Min. Inlet Pressure	207 kPa (30 psi)
Primary Pressure	6.9 to 13.8 kPa (1.0 to 2.0 psi)
Nominal Outlet Pressure	Standard (blue spring) -0.37 kPa (-1.5 w.c.)
.....	Optional (orange spring) -0.12 kPa (-0.5 w.c.)
.....	Optional (red spring) -0.05 kPa (-0.2 w.c.)
Horsepower Rating	3.7 to 75 kW (5 to 100 hp)
Temperature Range	-40° C to +121° C (-40° to +250° F)
Heating Chamber Source	Engine Coolant, Engine Oil, Exhaust Heat can be used w/ B3-20 baffle.
Mounting Position	Vertical (outlet down) recommended. Horizontal (secondary cover up) position can be used when fuel contamination can be controlled with HD-5 specified propane fuel.
Weight	0.86 kg (1.9 lbs.)
Applications	Open Loop, Closed Loop, Forced Induction up to 34.4 kPa (5 psi)

DIMENSIONS



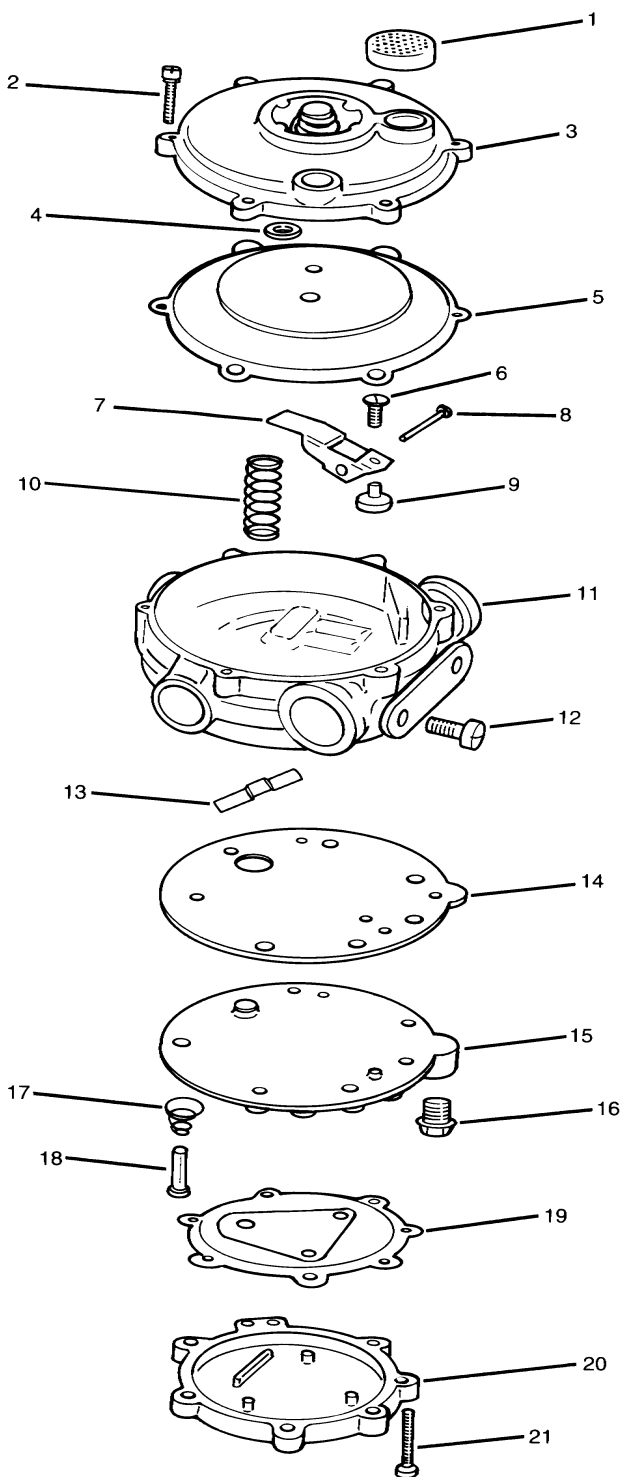
A	B	C	D	E	F	G	H	J	K	L
OVERALL HEIGHT	OVERALL DEPTH	OVERALL WIDTH	BACK OF CONVERTER TO CTR. OF VAPOR FUEL OUTLET	BACK OF CONVERTER TO CTR. OF WATER OUTLET	MOUNTING HOLES CTR. TO CTR.	COOLANT INLET AND OUTLET (NPT)	LIQUID FUEL INLET (NPT)	PRIMARY TEST PORT (NPT)	VAPOR FUEL OUTLET (NPT)	VENT BALANCE LINE CONNECTION (NPT)
108 mm (4.25")	73.0 mm (2.88")	118 mm (4.63")	41.3 mm (1.63")	34.9 mm (1.38")	41.3 mm (1.63")	3/8"	1/4"	1/8"	1/2"	1/8"

MODEL J SERIES

ITEM #	PART #	DESCRIPTION
1	S7-4	Screen, atmospheric vent
2	S1-15265-003	Screw, 8-32 x 7/8" Torx style (6)
	S1-59	Screw, 8-32 x 5/8" Slot style (6)
3	NSS	Cover ass'y, secondary
4	AD1-26	Diaphragm ass'y, secondary, Hydrin
	AD1-27 *	Diaphragm ass'y, secondary, silicone
	AD1-27-4	Diaphragm ass'y, secondary,
5	NSS	Screw, 8-32 x 1/2" Torx style
	S1-42	Screw, 8-32 x 3/8" Slot style
6	L1-37	Lever, secondary
7	P1-8	Pin, secondary fulcrum
8	S4-27 *	Seat, secondary
9	S2-35	Spring, blue secondary, Neg. 0.37 kPa (Neg. 1.5" H2O), standard
	S2-38	Spring, orange, secondary, Neg. 0.12 kPa (Neg. 0.5" H2O), optional
	S2-136	Spring, red, secondary, Neg. 0.05 kPa (Neg. 0.2" H2O), optional
10	NSS	Body ass'y, w/ jet
11	NSS	Plug, vapor outlet
12	NSS	Screw, 1/4-20 x 5/8" (2)
13	S4-16 *	Valve, primary (S4-16P, RM-8)
14	G1-85	Gasket, body to body cover plate
15	NSS	Plate, body cover
16	P3-13	Plug, 1/8 NPT, hex head
17	S2-36	Spring, primary
18	NSS	Primary valve pin
19	NSS	Diaphragm ass'y, primary
20	NSS	Cover, primary
21	S1-15265-003	Screw, 8-32 x 7/8" Torx style (7)
	S1-15265-005	Screw, 8-32 x 1-1/8" Torx style (7)

NSS = Not Serviced Separately

* Included in repair kit





STANDARD AND OPTIONAL EQUIPMENT

STANDARD CONVERTERS

MODEL	SECONDARY DIAPHRAGM	OUTLET PRESSURE	CHECK VALVE	NOTE
JB	AD1-26 (Black Hydrin)	Neg. 0.37 kPa (Neg. 1.5" H2O)	NO	
JB-2	AD1-27 (Silicone)	Neg. 0.37 kPa (Neg. 1.5" H2O)	NO	
JB-2ULC	AD1-27 (Silicone)	Neg. 0.37 kPa (Neg. 1.5" H2O)	NO	CANADA
JB-C-140	AD1-26 (Black Hydrin)	Neg. 0.37 kPa (Neg. 1.5" H2O)	AF4-14883	2360140
JB-C-2	AD1-27 (Silicone)	Neg. 0.37 kPa (Neg. 1.5" H2O)	AF4-14883	
JC-C-725	AD1-26 (Black Hydrin)	Neg. 0.37 kPa (Neg. 1.5" H2O)	AF4-14883	
JB-L-377	AD1-26 (Black Hydrin)	Neg. 0.37 kPa (Neg. 1.5" H2O)		Plug, L.H. CLARK
JB-R	AD1-26 (Black Hydrin)	Neg. 0.12 kPa (Neg. 0.5" H2O)		Blue Spring, R.H. PLUG
JO	AD1-26 (Black Hydrin)	Neg. 0.12 kPa (Neg. 0.5" H2O)	NO	
JO-2	AD1-27 (Silicone)	Neg. 0.12 kPa (Neg. 0.5" H2O)	NO	

FUEL CONTROL VALVES

PART #	DESCRIPTION
SV	Start assist valve
VPV	Vacuum power valve

PRIMER

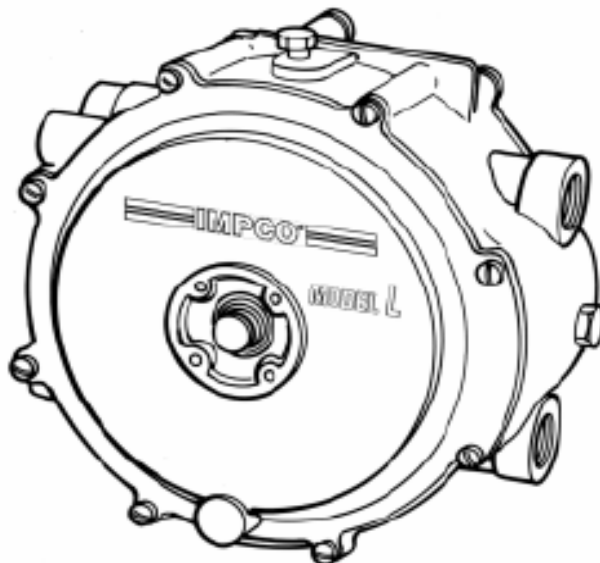
PART #	DESCRIPTION
AB1-28	Mechanical primer, J-Series converters
SV	Start assist valve

REPAIR KITS

PART #	DESCRIPTION
RK-J	Standard repair kit
RK-J-2	Repair kit, w/ silicone diaphragm
RK-J-3	Repair kit Mod J w/ Fluorosilicone Diaphragm
RK-J-632	Std. RK-J for Clark
RK-J-C	Repair kit, w/ check valve
RK-JC-734	Repair Kit for JO-C/Clark

BAFFLE

PART #	DESCRIPTION
B3-20	Baffle Exhaust Heated conversions

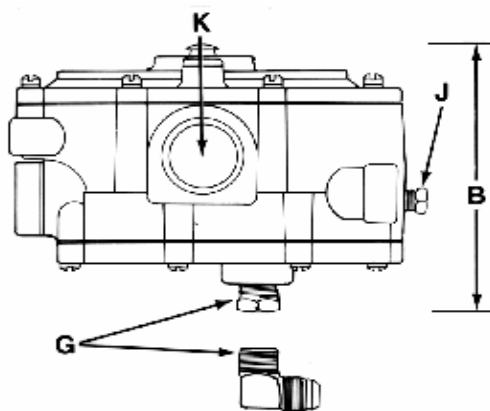
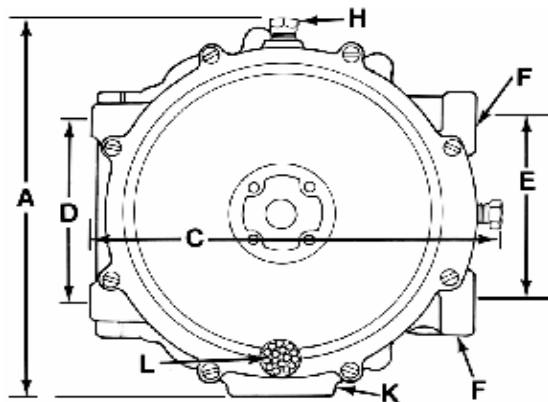
MODEL L SERIES TWO-STAGE CONVERTER**TECHNICAL DESCRIPTION**

The IMPCO Model L Series is a two stage regulator / converter. These units are coolant heated and are able to provide liquid vaporization to supply up to 150 kW (200 hp) in industrial engine applications. The L Series regulator provides a negative outlet pressure of -0.37 kPa (-1.5 w.c.). No optional pressures are available. The Model L offers economical performance with full features; rear fuel inlet, and primary and secondary diagnostic test ports. Optional silicone diaphragm materials are also available. Regulatory approvals include UL, ULC, E4 Regulation Number 67.

TECHNICAL SPECIFICATIONS

Fuel Type	Liquid / Vapor Propane
Max. Inlet Pressure	2,151 kPa (312 psi)
Min. Inlet Pressure	207 kPa (30 psi)
Primary Pressure	6.9 to 13.8 kPa (1.0 to 2.0 psi)
Nominal Outlet Pressure	0.37 kPa (-1.5 w.c.)
Horsepower Rating	37.3 to 242 kW (50 to 325 hp)
Temperature Range	-40°C to +121° C (-40° to 250° F)
Filtration Requirement	40 micron
Heating Chamber Source	Engine Coolant
Mounting Position	Vertical recommended. Horizontal position can be used when fuel contamination can be controlled with HD-5 specified propane fuel.
Weight	1.63 kg (3.6 lbs.)
Applications	Open Loop, Closed Loop, Forced Induction up to 34.4 kPa (5 psi)

DIMENSIONS



	A	B	C	D	E	F	G	H	J
	OVERALL HEIGHT	OVERALL DEPTH	OVERALL WIDTH	MOUNTING HOLES CTR. TO CTR.	COOLANT INLET AND OUTLET CTR. TO CTR.	COOLANT INLET AND OUTLET (NPT)	LIQUID FUEL INLET (NPT)	SECONDARY ACCESSORY PORT (NPT)	PRIMARY TEST PORT (NPT)
LB, LB-2	160 mm (6.313")	110 mm (4.313")	165 mm (6.500")	76.2 mm (3.000")	76.2 mm (3.000")	3/8"	1/4" *	1/8"	1/8"

* Optional elbow fuel inlet is 3/8" SAE flare x 1/4 NPT, 90°

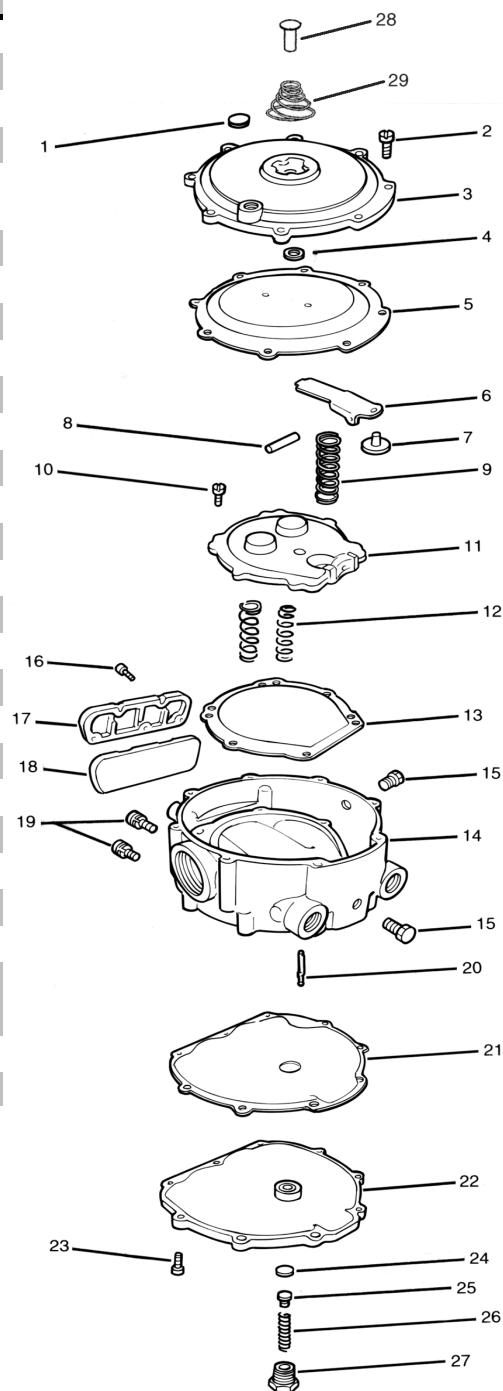
	K	L
	VAPOR FUEL OUTLET (NPT)	VENT BALANCE LINE CONNECTION (NPT)
LB, LB-2	1"	1/8"

MODEL L SERIES

ITEM #	PART #	DESCRIPTION
1	S7-1	Screen, atmospheric vent
2	S1-59 *	Screw, 8-32 x 5/8" SEMS (8)
3	NSS	Cover ass'y, secondary
4	NSS	Washer, hand primer
5	NSS	Diaphragm ass'y, secondary, Hydrin
	AD1-31 *	Diaphragm ass'y, secondary, Silicone
6	AL1-87	Lever, secondary
7	S4-37 *	Seat, secondary
8	NSS	Pin, secondary lever fulcrum
9	NSS	Spring, secondary regulator (blue)
10	S1-59	Screw, 8-32 x 3/8" SEMS (2)
11	NSS	Cover, primary diaphragm
12	S2-92	Spring, primary regulator
13	AD1-32	Diaphragm ass'y, primary
14	NSS	Body ass'y
15	NSS	Plug, hex head, 1/8 NPT
16	S1-59 *	Screw, 8-32 x 5/8" SEMS (5)
17	C1-61	Cover, water passage
18	G1-118 *	Gasket, water passage
19	NSS	Screw, 1/4-20 x 5/8" SEMS (2)
20	P1-34	Pin, primary valve
21	G1-119	Gasket, vaporizing chamber
22	AC1-64	Cover, vaporizing chamber
23	S1-3 *	Screw, 10-24 x 5/8" SEMS (9)
24	S4-18 *	Seat, primary
25	S4-23 *	Seat support, primary
26	S2-92	Spring primary valve
	S2-93	Spring primary valve
27	B3-25551	Bushing, fuel inlet
Not Shown	P1-10	Pin, primer
Not Shown	S2-21	Spring, primer

NSS = Not Serviced Separately

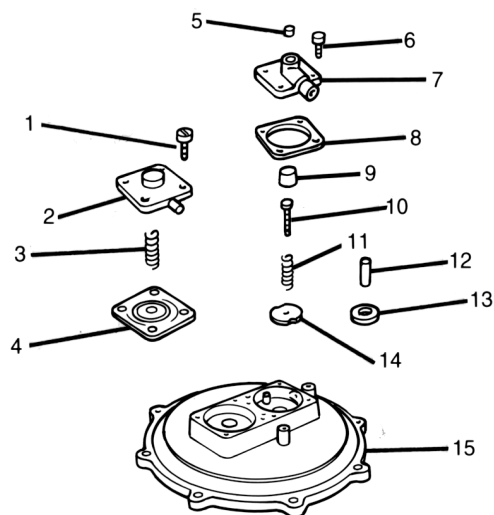
* Item included in repair kit



COMPONENT PARTS (Continued)

AC1-66 COVER (L-20 SERIES WITH EC1)

ITEM #	PART #	DESCRIPTION
1	NSS	Screw, 8-32 x 5/8" SEMS (4)
2	NSS	Cover, diaphragm
3	NSS	Spring, diaphragm
4	NSS	Diaphragm ass'y, for EC1
5	NSS	Plug, 1/16 NPT
6	S1-59	Screw, 8-32 x 5/8" SEMS (4)
7	NSS	Cover, EC1-3
8	NSS	Gasket, EC1 body
9	NSS	Spring, valve
10	NSS	Screw adjustment, 6-32 x 7/8"
11	NSS	Screw, adjustment lock
12	NSS	Screw, Allen set, 10-32 x 3/4"
13	NSS	Nut, 10-32
14	NSS	Valve, disk
15	NSS	Cover ass'y, secondary, w/ EC1



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.

REPAIR KITS

PART #	DESCRIPTION
RK-L	For model L
RK-L-2	For model L, w/ silicone diaphragm

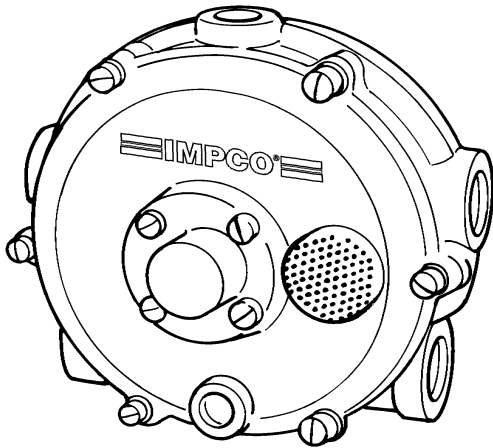
NSS = Not Serviced Separately

GAUGE

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

MODEL PJ SERIES TWO-STAGE CONVERTER, CNG

TECHNICAL DESCRIPTION

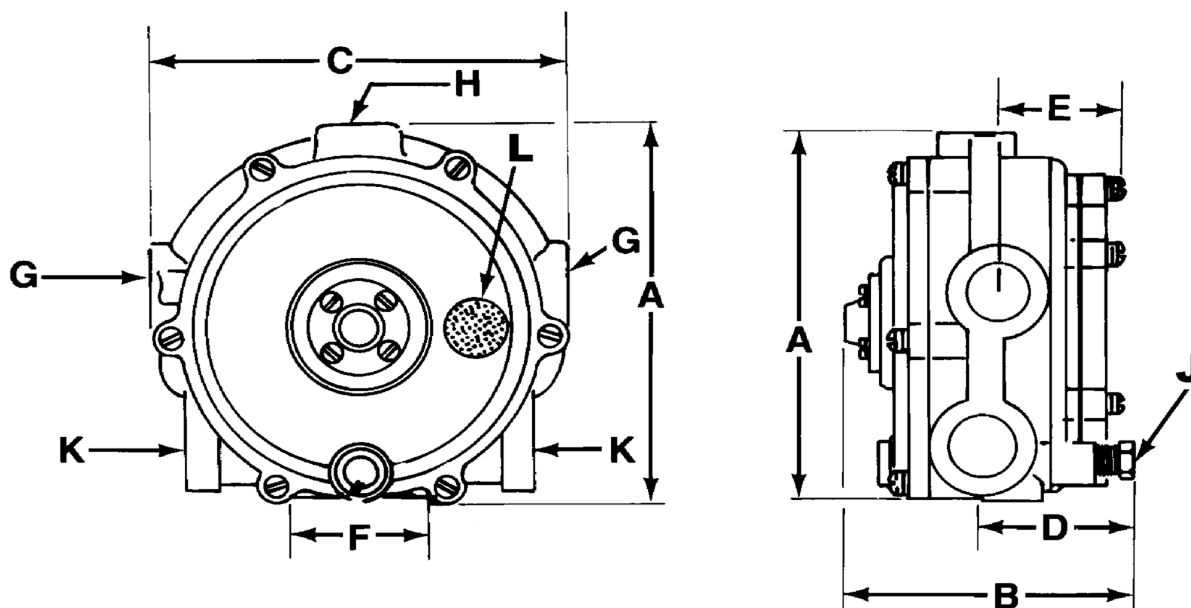


The Model PJ Series is a positive pressure, two stage regulator. It is designed for positive pressure CNG fuel systems where liquid vaporization and engine coolant heating is not required. These regulators are able to provide positive flow in applications up to 59.7 kW (80 hp). PJ regulators are available in several fixed pressures. Adjustable pressure units are also available in varying pressure ranges. Fixed regulators can be converted in the field to adjustable with the AC1-74 kit. Additionally, adjustable units can be converted to fixed pressure by using the H3-3 spring cover. Fixed pressure regulators are preferred in applications that are not subject to fuel quality variations or to deter unauthorized tampering. There is a primary pressure test port and "left" or "right" fuel outlets. Optional diaphragms are available in silicone material.

TECHNICAL SPECIFICATIONS

Fuel Type	Compressed Natural Gas (CNG)
Max. Inlet Pressure	2,151 kPa (312 psi)
Min. Inlet Pressure	207 kPa (30 psi)
Primary Pressure	13.8 to 27.6 kPa (2.0 to 4.0 psi)
Nominal Outlet Pressure	0.673 to 1.62 kPa (+2.7 to + 6.5" w.c.)
Horsepower Rating	59.7 kW (80 hp)
Temperature Range	-40° to +121° C (-40° to 250° F)
Filtration Requirement	40 micron
Heating Chamber Source	Engine Coolant
Mounting Position	Vertical (outlet down) recommended.
Horizontal (secondary cover up) position can be controlled.	
Weight	1.63 kg (3.6 lbs.)
Applications	Open Loop, Closed Loop, Forced Induction up to 34.4 kPa (5 psi)

DIMENSIONS



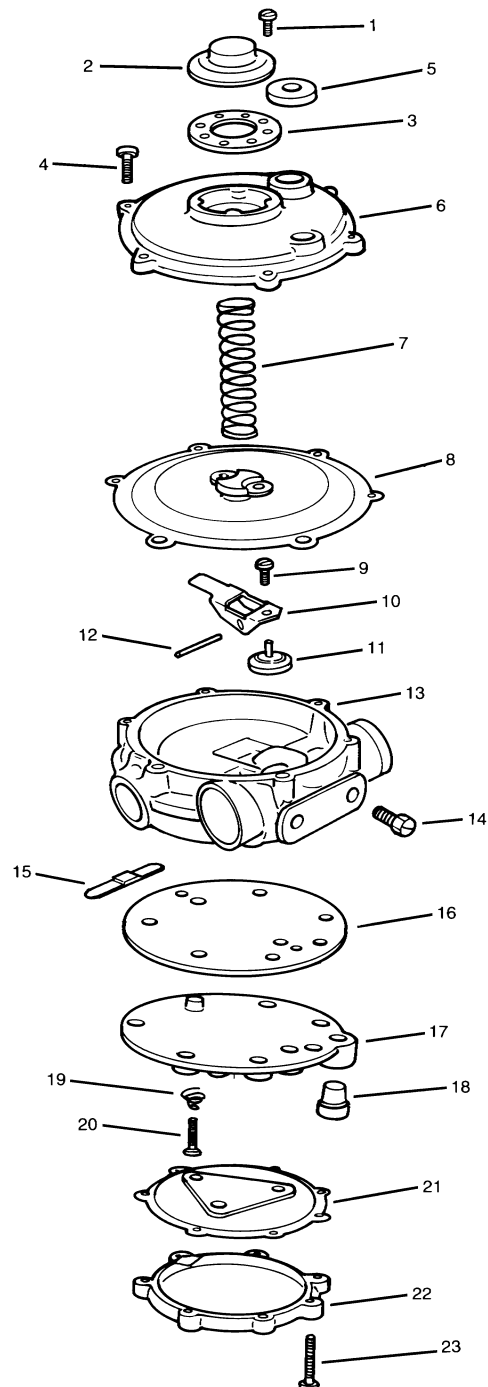
A	B	C	D	E	F	G	H	J	K	L
OVERALL HEIGHT	OVERALL DEPTH	OVERALL WIDTH	BACK OF CONVERTER TO CTR. OF VAPOR FUEL OUTLET	BACK OF CONVERTER TO CTR. OF WATER OUTLET	MOUNTING HOLES CTR. TO CTR.	COOLANT INLET AND OUTLET (NPT)	LIQUID FUEL INLET (NPT)	PRIMARY TEST PORT (NPT)	VAPOR FUEL OUTLET (NPT)	VENT BALANCE LINE CONNECTION (NPT)
121 mm (4.750")	73.0 mm (2.875")	118 mm (4.625")	41.3 mm (1.625")	34.9 mm (1.375")	41.3 mm (1.625")	3/8"	1/4"	1/8"	1/2"	1/8"

COMPONENT PARTS

ITEM #	PART #	DESCRIPTION
1	S1-101 *	Screw, 6-32 x 5/16" SEMS
2	H3-3	Housing, Spring
3	G1-84 *	Gasket, spring housing
4	S1-15	Screw, 8-32 x 5/8" 265-003 (6)
5	S7-4	Screen, atmospheric vent
6	NSS	Cover ass'y, Model PJ converter
7	S2-99	Spring, secondary regulator
8	AD1-26-2 *	Diaphragm ass'y, secondary
9	NSS	Screw, 8-32 x 1/2"
10	AL1-37	Lever ass'y, secondary regulator
11	S4-27 *	Seat, low pressure Model J
12	P1-8	Pin, secondary fulcrum
13	NSS	Body ass'y
14	NSS	Screw, 1/4-20 x 5/8" SEMS (2)
15	S4-16 *	Seat, primary regulator
16	G1-85	Gasket, body to plate
17	NSS	Plate, converter body cover
18	P3-13	Plug, 1/8 NPT, hex head
19	NSS	Spring, primary regulator
20	NSS	Pin, primary valve
21	NSS	Diaphragm ass'y, primary
22	NSS	Cover, primary regulator
23	NSS	Screw, 8-32 x 1" (7)

NSS = Not Serviced Separately

* Indicates repair kit components





STANDARD AND OPTIONAL EQUIPMENT

STANDARD CONVERTERS

MODEL	SECONDARY DIAPHRAGM	OUTLET PRESSURE	EC1 OUTLET PRESSURE	MANUAL PRIMER	CHECK VALVE
PJ	Black Hydrin	1.12 kPa (4.5" H ₂ O)	N/A	N/A	N/A

FUEL CONTROL VALVES

PART #	DESCRIPTION
SV	Electric solenoid starting valve
VPV	Vacuum power valve

GAUGE

PART #	DESCRIPTION
G2-2	Model J secondary lever

RETROFIT KITS

PART #	DESCRIPTION
AC1-74	W/ adjustable cover (for secondary pressure)

REPAIR KITS

PART #	DESCRIPTION
RK-J	For the Model J

BAFFLE

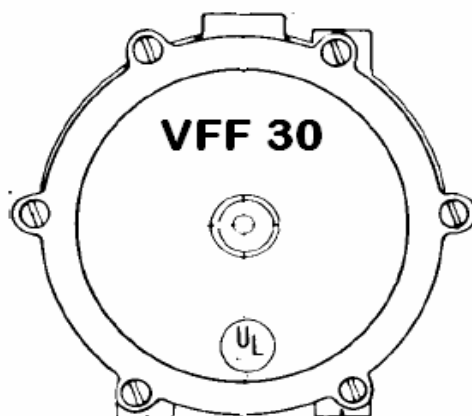
PART #	DESCRIPTION
B3-20	Baffle Exhaust Heated conversions



LOCKOFFS



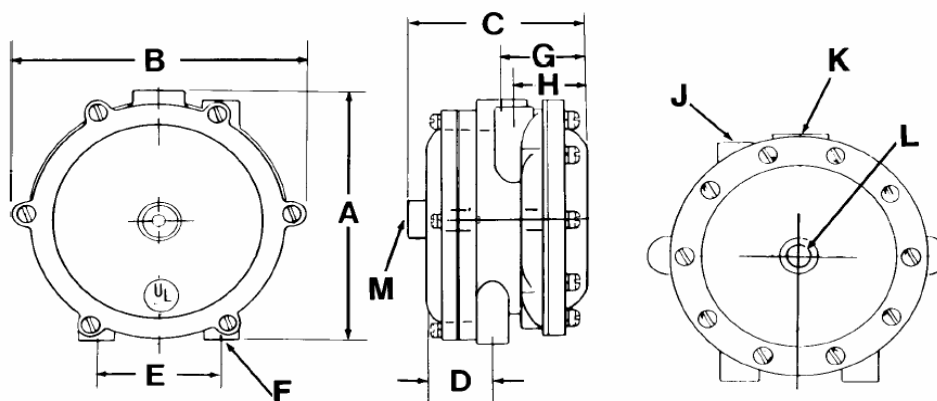
IMPCO TECHNOLOGIES Inc.
16804 GRIDLEY PLACE
CERRITOS CA. 90703-1741
Phone - (562)-860-6666
E-Mail - www.impcو.ws

MODEL VFF30
VACUUM FUEL LOCKS & FILTERS**TECHNICAL DESCRIPTION**

The IMPCO VFF30 is a combination fuel lockoff and filter, engineered for use with LPG or Natural Gas. A pressure of 1.69 kPa (0.5" Hg) is required to open the lockoff. The VFF30 is suitable for engines up to 242 kW (325 hp) at a maximum working pressure of 2,150 kPa (312 psi). The filter element is fully serviceable.

TECHNICAL SPECIFICATIONS

Fuel Type	LPG or CNG
Pressure (max. working)	2,151 kPa (312 psi)
Temperature (operating range)	40° C to 121° C (-40° to 250° F)
Flow Rate	12.6 L/s (26.7 cfm)
Power Rating	242 kW (325 hp)
Filter Rating	40.0 micron (1.6 mil)
Vacuum Activation	
Minimum Opening	13 kPa (0.5" H2O)
Maximum Opening.....	2.86 kPa (11.5" H2O)
Minimum Operating Opening	50 kPa (2.0" H2O)
Mass	525 g (18.5 oz.)
Certification	UL & IAS

DIMENSIONS


MODEL	DIAPHRAGM TYPE	OVERALL HEIGHT	OVERALL WIDTH	OVERALL DEPTH	FRONT OF FUEL LOCK TO CTR. OF MOUNTING HOLE	MOUNTING HOLES CTR. TO CTR.	MOUNTING HOLES DIAMETER	BACK OF FUEL LOCK TO CTR. OF FUEL OUTLET
VFF30	Hydrin	109 mm (4.28")	114 mm (4.50")	66.7 mm (2.625")	24 mm (.94")	48 mm (1.88")	1/4"-20	37 mm (1.44")
VFF30-2	Silicone	109 mm (4.28")	114 mm (4.50")	66.7 mm (2.625")	24 mm (.94")	48 mm (1.88")	1/4"-20	37 mm (1.44")
VFF30-20-2	Silicone	109 mm (4.28")	114 mm (4.50")	97.6 mm (3.844")	56 mm (2.19")	48 mm (1.88")	1/4"-20	37 mm (1.44")
VFF30-2-4	Silicone	133 mm (5.25")	114 mm (4.50")	66.7 mm (2.625")	24 mm (.94")	48 mm (1.88")	1/4"-20	37 mm (1.44")
VFF30-2ULC	Silicone	133 mm (5.25")	114 mm (4.50")	66.7 mm (2.625")	24 mm (.94")	48 mm (1.88")	1/4"-20	37 mm (1.44")
VFF30-3	Fluoro-silicone	109 mm (4.28")	114 mm (4.50")	66.7 mm (2.625")	24 mm (.94")	48 mm (1.88")	1/4"-20	37 mm (1.44")
VFF30-433	Silicone	133 mm (5.25")	114 mm (4.50")	66.7 mm (2.625")	24 mm (.94")	48 mm (1.88")	1/4"-20	37 mm (1.44")

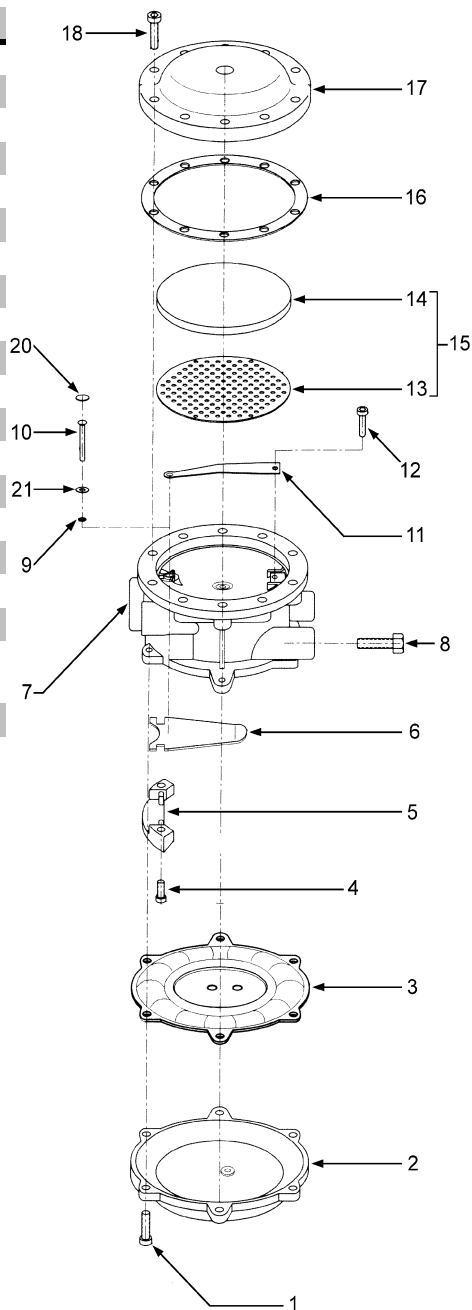
MODEL	H	J	K	L	M
	BACK OF FUEL LOCK TO CTR. OF VACUUM PORT	AIR VALVE VACUUM PORT (NPT)	FUEL OUTLET (NPT)	FUEL INLET (NPT)	VENT
VFF30	32 mm (1.25")	1/8"	1/4"	1/4"	Accepts 1/8 NPT
VFF30-2	32 mm (1.25")	1/8"	1/4"	1/4"	Accepts 1/8 NPT
VFF30-20-2	32 mm (1.25")	1/8"	1/4"	1/4"	Primer
VFF30-2-4	32 mm (1.25")	1/8" w/ check valve	1/4"	1/4"	Manual Primer
VFF30-2ULC	32 mm (1.25")	1/8"	1/4"	1/4"	Accepts 1/8 NPT
VFF30-3	32 mm (1.25")	1/8"	1/4"	1/4"	Accepts 1/8 NPT
VFF30-433	32 mm (1.25")	1/8"	1/4"	1/4"	Accepts 1/8 NPT

VFF30 FILTER LOCK

ITEM #	PART #	DESCRIPTION
1 *	S1-59	Screw, 8-32 x 5/8" SEMS (6)
2	C1-37	Diaphragm cover, (std., VFF30 only)
3 *	BD1-27	Diaphragm ass'y, silicone
4	NSS	Screw, 8-32 x 1/4" (2)
5	NSS	Fulcrum
6	NSS	Valve operating lever
7	NSS	Body ass'y
8	S1-5	Screw, 1/4-20 x 5/8" SEMS (2)
9 *	NSS	O-ring lip seal
10 *	P1-15	Valve, operating pin
11	S2-40	Valve, spring
12	S1-12	Screw, 8-32 x 5/16"
13 *	NSS	Screen, back-up filter
14 *	F1-10	Filter
15	AF1-10	Filter ass'y
16 *	G1-89	Filter cover gasket
17	NSS	Filter cover
18 *	NSS	Screw, 12-24 x 3/4" SEMS (10)
19	AF4-66	Fitting, ball check, ass'y (not shown, VFF30-2-4 only)
20 *	S4-18	Seat, VFF30

NSS = Not Serviced Separately

* Included in repair kits





VFF30 FILTER LOCK

PRIMER

PART #	DESCRIPTION
AC1-57	Cover Electric Primer

REPAIR KITS

PART #	DESCRIPTION
RK-VFF-30	Repair Kit, Hydrin
RK-VFF-30-2	Repair Kit, Silicone
RK-VFF-30-3	Repair Kit, Fluorosilicone

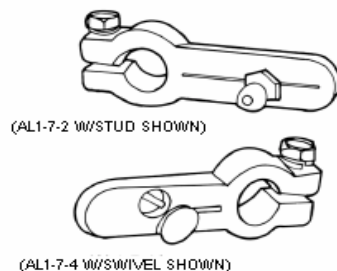
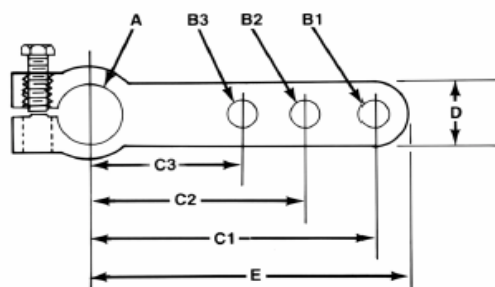


MASTER CATALOG
INTRODUCTION

ACCESSORIES



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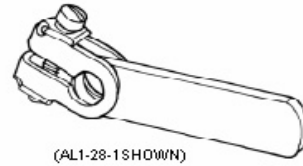
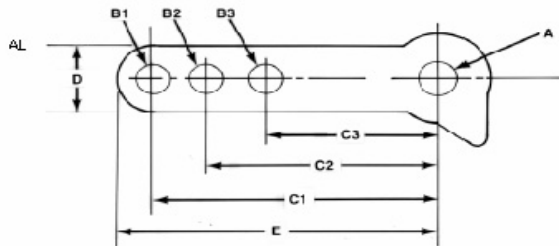
AL1 SERIES LEVERS


LEVER	MT. HOLE I.D. (A)	WIDTH (D)	USABLE LENGTH (E)	B1	C1	B2	C2	B3	C3	NOTES
AL1-7-1	11.1 mm (0.438")	14.3 mm (0.563")	44.5 mm (1.750")							
AL1-7-2	11.1 mm (0.438")	14.3 mm (0.563")	44.5 mm (1.750")	4.8 mm (0.188")	28.6 mm (1.125")					
AL1-7-3	11.1 mm (0.438")	14.3 mm (0.563")	33.3 mm (1.313")							Stud S3-31
AL1-7-4	11.1 mm (0.438")	14.3 mm (0.563")	44.5 mm (1.750")	6.0 mm (0.234")	28.6 mm (1.125")					Stud S3-15
AL1-7-5	11.1 mm (0.438")	14.3 mm (0.563")	44.5 mm (1.750")	4.8 mm (0.188")	28.6 mm (1.125")					Swivel S3-40
AL1-9-1	12.7 mm (0.500")	15.9 mm (0.625")	58.7 mm (2.313")							
AL1-9-2	12.7 mm (0.500")	15.9 mm (0.625")	58.7 mm (2.313")	6.4 mm (0.250")	28.6 mm (1.125")					
AL1-12-1	15.9 mm (0.625")	15.9 mm (0.625")	77.8 mm (3.063")							
AL1-12-3	15.9 mm (0.625")	15.9 mm (0.625")	58.7 mm (2.313")							
AL1-38	15.9 mm (0.625")	25.4 mm (1.000")	165 mm (6.500")	12.7 mm (0.500")	152 mm (6.000")					
AL1-34										

SWIVELS

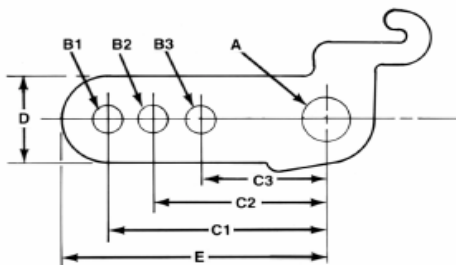
PART #	DESCRIPTION
AS3-15	Swivel, Boden Wire
AS3-40	Swivel, Boden Wire
C2-32	Boden cable, heavy duty, used w/ 300 Series dual fuel mixers & AB1-50-2 fuel selector switch

FLOATING LEVERS



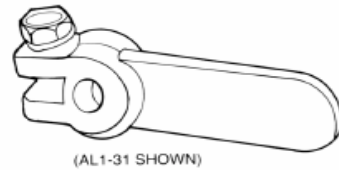
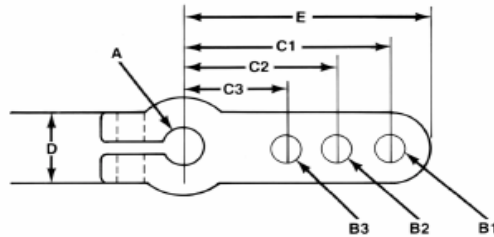
LEVER	MT. HOLE I.D. (A)	WIDTH (D)	USABLE LENGTH (E)	B1	C1	B2	C2	B3	C3	NOTES
AL1-26-1	6.4 mm (0.250")	12.7 mm (0.500")	54.0 mm (2.125")							
AL1-26-2	6.4 mm (0.250")	12.7 mm (0.500")	54.0 mm (2.125")	6.0 mm (0.234")	28.6 mm (1.125")					
AL1-26-401	6.4 mm (0.250")	12.7 mm (0.500")	31.8 mm (1.250")	6.4 mm (0.250")	25.4 mm (1.000")					
AL1-27-1	7.9 mm (0.313")	12.7 mm (0.500")	54.0 mm (2.125")							
AL1-27-2	7.9 mm (0.313")	12.7 mm (0.500")	54.0 mm (2.125")	6.0 mm (0.234")	28.6 mm (1.125")					

SPRING-LOADED FLOATING LEVERS



LEVER	MT. HOLE I.D. (A)	WIDTH (D)	USABLE LENGTH (E)	B1	C1	B2	C2	B3	C3	NOTES
AL1-25-1	6.4 mm (0.250")	12.7 mm (0.500")	34.9 mm (1.375")							S2-29 Spring
AL1-25-2	7.9 mm (0.313")	12.7 mm (0.500")	34.9 mm (1.375")							S2-29 Spring

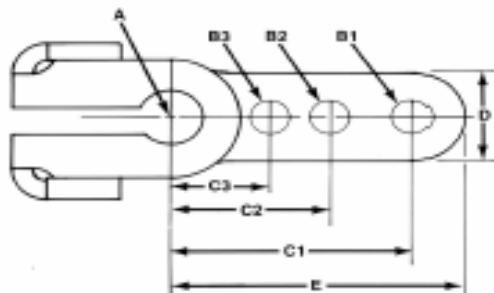
SHAFT CLAMPS



LEVER	MT. HOLE I.D. (A)	WIDTH (D)	USABLE LENGTH (E)	B1	C1	B2	C2	B3	C3	NOTES
AL1-31	6.4 mm (0.250")	14.3 mm (0.563")	49.2 mm (1.938")							
AL1-31-124	6.4 mm (0.250")	14.3 mm (0.563")	30.2 mm (1.188")	2.4 mm (0.094") off ctr.	23.8 mm (0.938")	6.4 mm (0.250")	17.5 mm (0.688")			
AL1-31-138	6.4 mm (0.250")	14.3 mm (0.563")	49.2 mm (1.938")	3.2 mm (0.125")	42.9 mm (1.688")	6.0 mm (0.234")	23.0 mm (0.906")			
AL1-31-191	6.4 mm (0.250")	14.3 mm (0.563")	48.4 mm (1.906")							
AL1-31-401	7.9 mm (0.313")	14.3 mm (0.563")	28.6 mm (1.125")	6.4 mm (0.250")	22.2 mm (0.875")					
AL1-33	7.9 mm (0.313")	14.3 mm (0.563")	49.2 mm (1.938")							
AL1-33-76	7.9 mm (0.313")	14.3 mm (0.563")	48.4 mm (1.906")	3.2 mm (0.125")	44.5 mm (1.750")	6.0 mm (0.234")	19.1 mm (0.750")			
AL1-33-141	7.9 mm (0.313")	12.7 mm (0.500")	34.9 mm (1.375")	6.4 mm (0.250")	28.6 mm (1.125")					
AL1-33-358	7.9 mm (0.313")	14.3 mm (0.563")	33.3 mm (1.313")	6.4 mm (0.250")	25.4 mm (1.000")					
AL1-7-5	6.4 mm (0.250")	14.3 mm (0.563")	19.1 mm (0.750")	6.4 mm (0.250")	12.7 mm (0.500")					

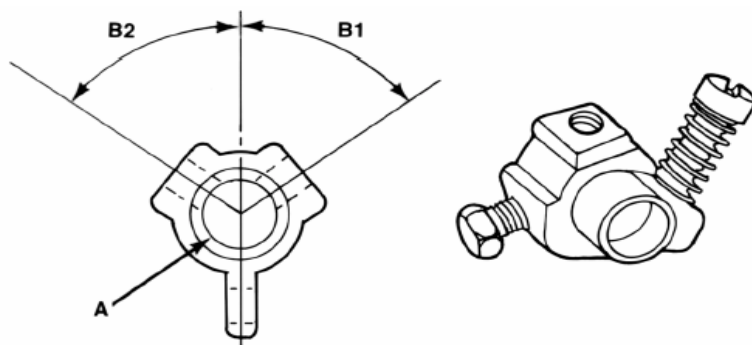
* Variations of the AL1-33 can be made from the standard AL1-33 lever.

STAMPED STEEL THROTTLE CLAMP LEVERS



LEVER	MT. HOLE I.D. (A)	WIDTH (D)	USABLE LENGTH (E)	B1	C1	B2	C2	B3	C3	NOTES
AL1-46	7.9 mm (0.313")	12.7 mm (0.500")	47.6 mm (1.875")							

THROTTLE STOP LEVERS

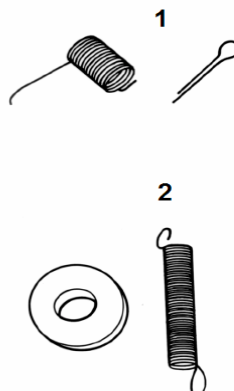


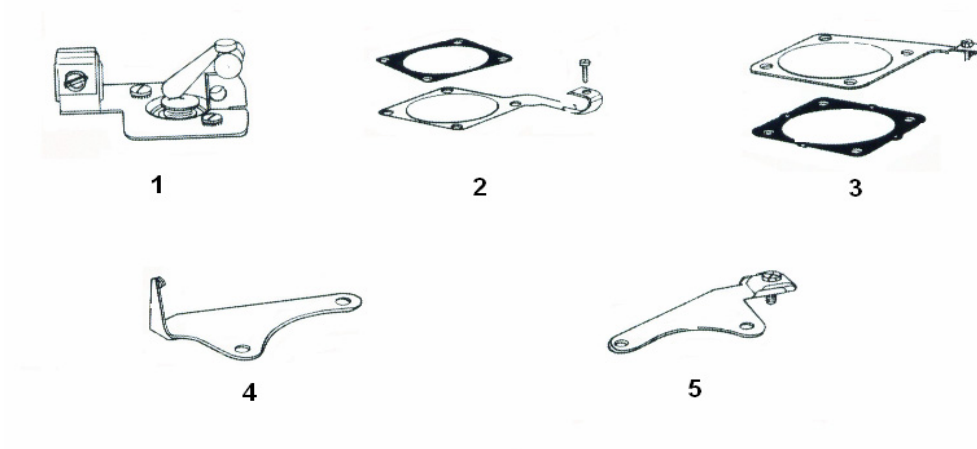
LEVER#	MT . HOLE I.D. (A)	WIDTH (D)	USABLE LENGTH (E)	B1	B2
AL1-8-1	6.4 mm (0.250")	9.5 mm (0.375")	19.1 mm (0.750")	50°	50°
AL1-8-2	7.9 mm (0.313")	9.5 mm (0.375")	19.1 mm (0.750")	50°	50°
AL1-8-3	6.4 mm (0.250")	9.5 mm (0.375")	9.5 mm (0.375")	50°	50°
AL1-8-4	7.9 mm (0.313")	9.5 mm (0.375")	9.5 mm (0.375")	50°	50°
AL1-10	9.5 mm (0.375")	11.1 mm (0.438")	22.2 mm (0.875")	54°	54°
AL1-11-1	11.1 mm (0.438")	11.1 mm (0.438")	25.4 mm (1.000")	57°	57°
AL1-11-2	12.7 mm (0.500")	11.1 mm (0.438")	25.4 mm (1.000")	57°	57°

* Dimensions given are subject to change without notice.

AS2 SERIES THROTTLE RETURN SPRING KITS

ITEM #	PART #	DESCRIPTION
1	AS2-50-1	Spring ass'y, throttle return, 6.4 mm (0.250") shaft
2	AS2-50-2	Spring ass'y, throttle return, 7.9 mm (0.313") shaft
	AS2-50-3	Spring ass'y, throttle return, 9.5 mm (0.375") shaft
	AS2-50-4	Spring ass'y, throttle return, 11.1 mm (0.438") shaft
	S2-50	Spring, throttle return
	S2-50-2	Spring, throttle return

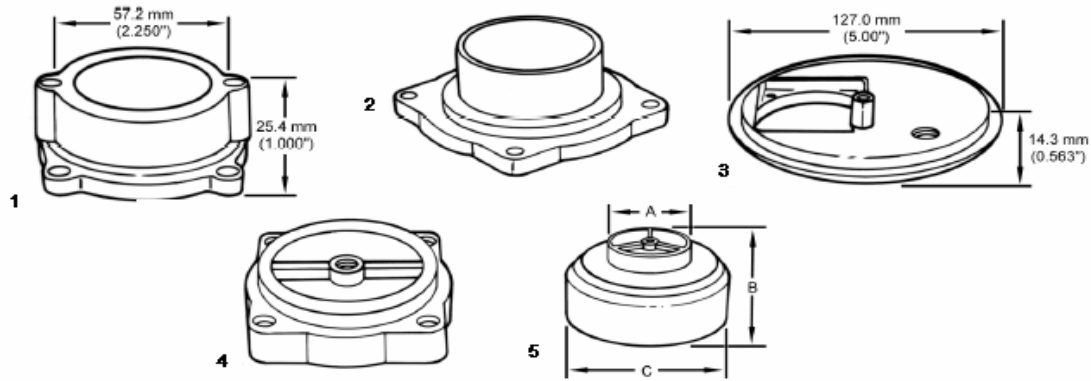


AB1 & AB4 SERIES BRACKET ASSEMBLIES

ITEM #	PART #	DESCRIPTION
1	AB1-28	Primer, manual, E & J Series converters
2	AB4-1	Ass'y, Bodan wire, 200 & 225
	AB4-2	Ass'y, Bodan wire, CA100 & CA125
3	AB4-4	Ass'y, Bodan wire, for use w/ AT2-7, AT2-8
4	AB4-13	Ass'y, Bodan wire, CA55
5	AB4-23	Ass'y, Bodan wire, CA55
Not Shown	B4-15682	Bracket, Regulator, LPG-Toyota

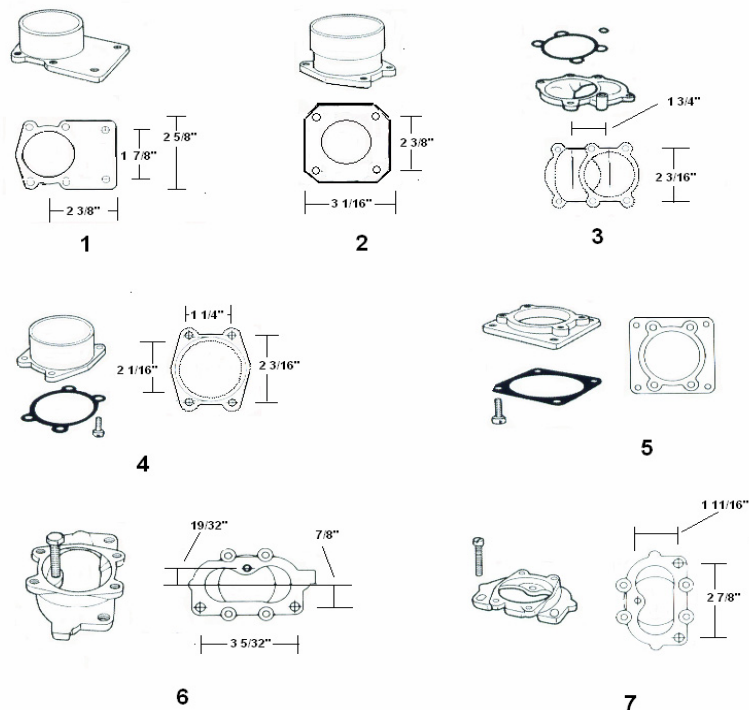
ADAPTERS

A2 SERIES AIR HORN ADAPTERS



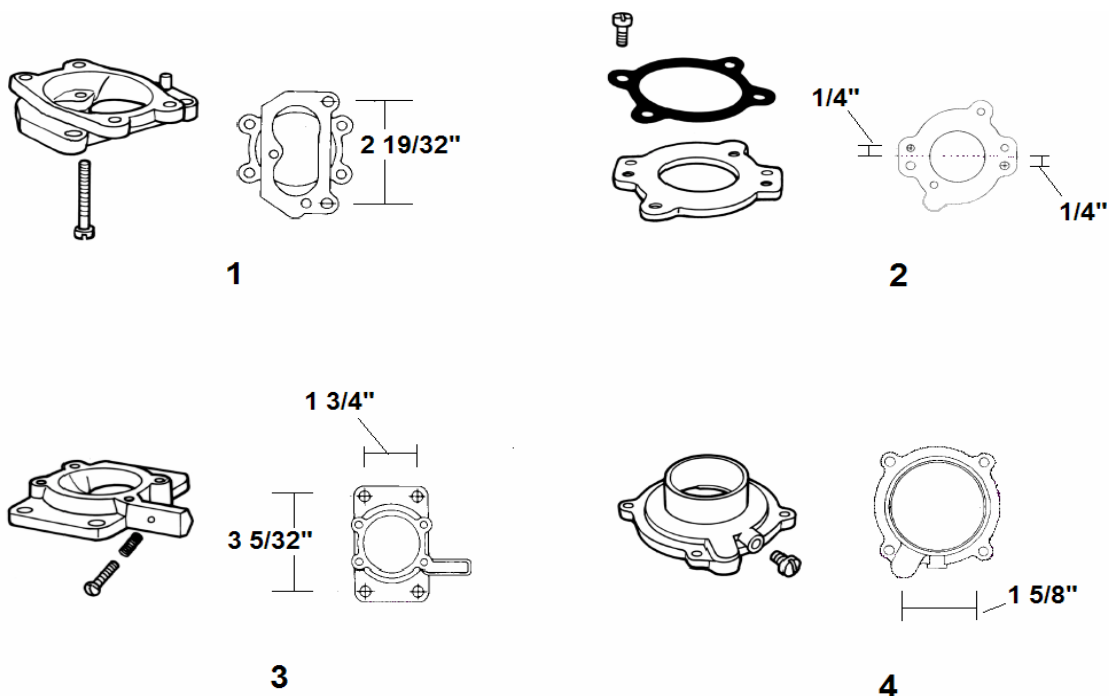
ITEM #	PART #	DESCRIPTION	A	B	C
1	A2-35	For Model CA55 mixer, to 1974 Toyota lift truck Air Horn			
	A2-36	For 1.500\" I.D. hose			
	A2-37	For 1.625\" I.D. hose			
	A2-38	For 1.875\" I.D. hose			
2	A2-39	For 2.063\" I.D. hose			
	A2-41	For 2.313\" I.D. hose			
	A2-61	For 63 mm I.D. hose, tapped to 8 mm			
3	A2-44	For AF1-5 air cleaner			
4	A2-60	For Datsun J-15 engine, 57.2 mm (2.250\") dia., w/ 1/4-20 center stud			
5	A2-7	For Model 125 mixer	66.7 mm (2.625\")	44.5 mm (1.750\")	130.0 mm (5.125\")
	A2-8	For Model 125 mixer	58.7 mm (2.313\")	44.5 mm (1.750\")	130.0 mm (5.125\")
	A2-9	For Model 125 mixer	56.4 mm (2.219\")	44.5 mm (1.750\")	130.0 mm (5.125\")
	A2-33	For Model 125 mixer	80.0 mm (3.150\")	44.5 mm (1.750\")	130.0 mm (5.125\")
	A2-34	For Model 125 mixer	54.0 mm (2.126\")	44.5 mm (1.750\")	130.0 mm (5.125\")
	A2-35	For Model 125 mixer	70.0 mm (2.765\")	44.5 mm (1.750\")	130.0 mm (5.125\")

A3 SERIES ADAPTERS



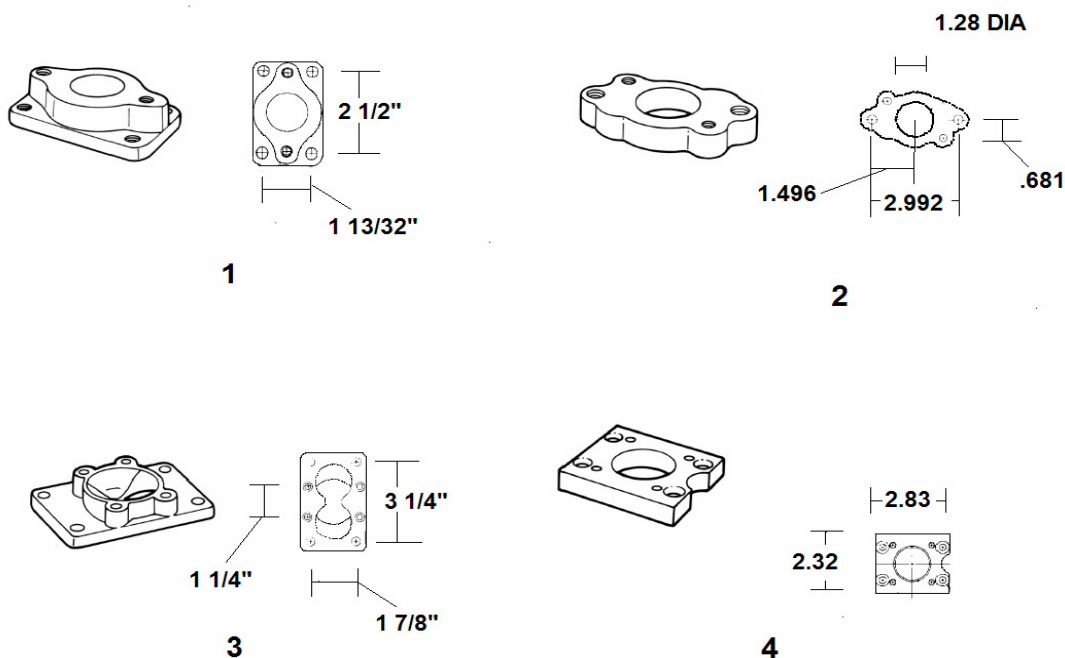
ITEM #	PART #	DESCRIPTION
1	A3-29-3	100M & 125M to 2-1/16" hose, w/ mounting base
2	A3-28	200 & 225M to 3-1/16" hose
	A3-31	100M & 125M to 2-1/4" hose
3	AA3-18	Ass'y kit, 100 mixer to throttle body, offset 31.8 mm (1.250"), w/ A3-18, G1-11, S1-23 (2), W1-16 (2)
4	AA3-29-1	Ass'y kit, 100M & 125M to 2-1/16" hose, w/ A3-29-1, G1-11, S1-19 (4)
	AA3-29-2	Ass'y kit, 100M & 225M to 2-1/16" hose, tapped for 12" x 24", w/ A3-29-2, S1-19 (4), G1-11
5	AA3-32-1	Ass'y kit, 100M & 125M to IMPCO 2B throttle body, w/ A3-32-1, G1-21, S1-19 (4)
	AA3-32-2	Ass'y kit, 100 throttle body to 200 mixer, w/ A3-32-2, G1-11, S1-19 (4)
6	AA3-43	Ass'y kit, 100M & 125M to Toyota lift truck throttle body, w/ A3-43, S1-60
7	AA3-49	Ass'y kit, 125M to Datsun C5 & Nikki P5 throttle body, w/ A3-49, S1-62

A3 SERIES ADAPTERS



ITEM #	PART #	DESCRIPTION
1	AA3-50	Ass'y, 125 to Datsun C3 & P3 throttle body, w/ A3-50, S2-23
	AS3-10	Used to rotate 100 Series mixer 90°, 38.1 mm (1.500") tall
	AS3-43	Used to rotate 100 Series mixer 90°, 4.8 mm (0.188") tall
2	AA3-58	Ass'y kit, 100M to throttle body, 11.1 mm (0.438") offset, w/ A3-58, G1-11, S1-67 (4)
3	AA3-67	Ass'y, kit, 125M to Mitsubishi lift truck throttle body, w/ A3-67, S1-51, S2-3, G1-126
4	A3-83	55M to 1-7/8" hose
	A3-84	55M to 2-1/16" hose

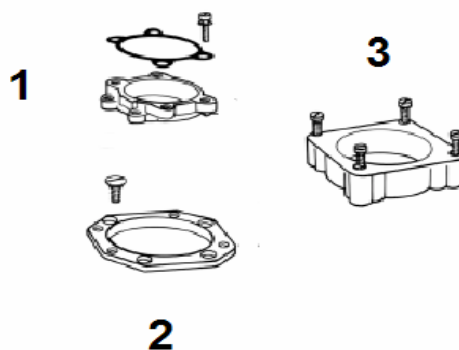
A3 SERIES ADAPTERS



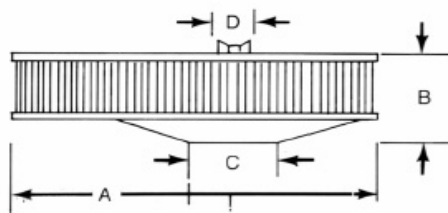
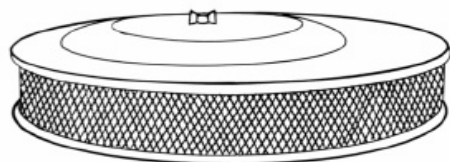
ITEM #	PART #	DESCRIPTION
1	A3-94	1" SAE flange to Datsun 4-bolt manifold flange
2	A3-113	CA50-500 Series to Toyota 4Y intake manifold
3	A3-105	For Hyster governor, 2B to CA125
4	A3-124-2	100-125 to Solex lower throttle body
Not Shown	A4-25668	Adapter, 4.3L engine

S3 SERIES SPACERS

ITEM #	PART #	DESCRIPTION
1	AS3-10	Spacer ass'y, to turn CA100 Air Horn 90°, for S3-10, G1-11, & S1-19 (4)
2	AS3-43	Spacer ass'y to turn CA100 Air Horn 90°, for S3-43 G1-11, & S1-68 (4)
3	AS3-45	Spacer ass'y, 200 & 225 throttle body to mixer: S3-45, G1-21, S1-93 (4), W1-16 (4)



F1 FILTER ASSEMBLIES



ASS'Y PART #	FLOW RATE	APPLICATION	FILTER PART #	COVER PART #	BASE PART #	STUD PART #	A	B	C	D
AF1-5	71 L/s (150 cfm)	CA125	F1-5	C1-28	N/A	AS3-33	172 mm (6.750")	60.3 mm (2.375")	N/A	N/A
AF1-8	118 L/s (250 cfm)	CA125	F1-8	C1-48	A2-47	AS3-33	235 mm (9.250)	76.2 mm (3.000")	N/A	15.9 mm (0.625")
AF1-8-2	118 L/s (250 cfm)	CA125	F1-8	C1-48	A2-53	AS3-41	N/A	N/A	129 mm (5.063")	N/A
AF1-14	236 L/s (500 cfm)	CA125	F1-14	C1-48	A2-47	AS3-51	229 mm (9.000")	191 mm (7.500")	129 mm (5.063")	15.9 mm (0.625")
AF1-17	236 L/s (500 cfm)	CA125/CA425	F1-6	C1-60	A2-55	AS3-56-2	349 mm (13.75")	87.3 mm (3.438)	148 mm (5.844")	25.4 mm (1.000")
AF1-17-2	165 L/s (350 cfm)	CA225	F1-9	C1-60	A2-55	AS3-52	356 mm (14.00")	106 mm (4.188")	148 mm (5.844")	25.4 mm (1.000")
AF1-7	236 L/s (500 cfm)		F1-7							

STUDS

PART #	DESCRIPTION
AS3-28	Stud Ass'y, 1/4 -20 x 5 - 1/4" Long
AS3-29	Stud Ass'y, 1/4 -20 x 3 - 1/8" Long
AS3-32	Stud Ass'y, 1/4 -20 x 4 - 1/8" Long
AS3-33	Stud Ass'y, 1/4 -20 x 1 - 1/8" Long
S3-31	Stud, 10-32
S3-34	Stud, 1/4-28
S3-59	Stud, Mazda
5M-003	Stud, 6 mm x 48 mm Metric



RK SERIES REPAIR KITS

LOCKOFFS

PART #	DESCRIPTION
RK-VFF30	For VFF-30 w/ Hydrin diaphragm
RK-VFF30-2	For VFF-30 w/ Silicone diaphragm
RK-VFF30-3	For VFF-30 w/ Fluorosilicone diaphragm
RK-FL219	Repair Kit, Solenoid Lockoff FL219

REGULATORS AND CONVERTERS

PART #	DESCRIPTION
RK-COBRA	For Cobra
RK-E	For Model E w/ Hydrin diaphragm
RK-E-2	For Model E w/ Silicone diaphragm
RK-E-3	For Model E w/ Fluorosilicone diaphragm, non-turbo
RK-J	For Model J w/ Hydrin diaphragm
RK-J-2	For Model J w/ Silicone diaphragm
RK-J-3	For Model J w/ Fluorosilicone diaphragm
RK-J-C	For Model J w/ Hydrin diaphragm & check valve
RK-JC-734	Repair Kit, JO C / Clark
RK-L	For Model L w/ Hydrin diaphragm
RK-L-2	For Model L w/ Silicone diaphragm
RK-PEV	For Model PEV w/ Hydrin diaphragm
RK-PEV-2	For Model PEV w/ Silicone diaphragm
RK-TPEV	For Model PEV Turbo

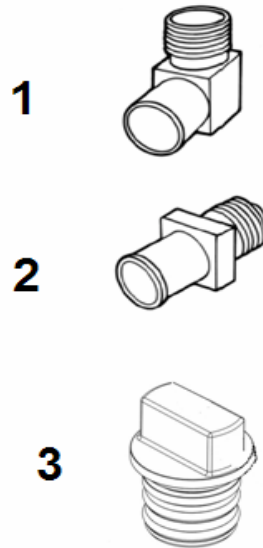
CARBURETORS AND MIXERS

PART #	DESCRIPTION
RK-CA55	For CA55 carburetor
RK-CA55	For CA55 carburetor Lean
RK-200DM-887	Repair Kit, 200 Mixer
RK300MA-1/20	Repair Kit, 300A Major
RK300MA-1/20-2	Repair Kit, 300A Major Silicone
RK300MA-50/70-2	Repair Kit, 300A Major Silicone
RK300MI-1/20	Repair Kit, 300A Minor
RK300MI-1/20-2	Repair Kit, 300A Minor Silicone
RK300MI-50/70-2	Repair Kit, 300A Minor Silicone
RK-B2-11	For replacement of 1/4" I.D. bearings
RK-B2-12	For replacement of 5/16" I.D. bearings
RK-B3-42-1	Repair Kit, Bearing Seal Housing
RK-B3-43	Repair Kit, Bearing Seal 1/2"
RK-B3-43-1	Repair Kit, Bearing Seal 1/2" housing
RK-B3-44	Repair Kit, Bearing Seal 7/16"
RK-B3-552	Repair Kit, Bearing Cat 7E1552
RKD1-20-3	Repair Kit, 600VF Diaphragm/Plate/Bushing

FITTINGS AND HOSES

F4 SERIES FITTINGS

ITEM #	PART #	DESCRIPTION
1	F4-1	Fitting, 1 NPT - 1" Hose 90°L Nylon
	F4-12	Fitting, 1/8 NPT - 3/8" Hose 90°L Nylon
	F4-17	Fitting, 3/8 NPT - 5/8" Hose 90°L Nylon
	F4-8	Plastic 1/4" I.D. hose 1/8 NPT 90°L
	F4-23	Plastic 3/4" I.D. hose 3/8 NPT 90°L
2	F4-24	Fitting, 3/8 NPT - 3/4" Hose Str. Nylon
	F4-40	Metal, 3/16" I.D. hose, 1/4-28
	F4-2	Fitting, 1/4"UNF - 1/4" Hose Vac. Nip.
	F4-16	Fitting, 1/2 NPT - 5/8" Hose Nip. Nylon
3	AF4-30613	Fitting, O-ring type Cobra, Cap
	AF4-30614	Fitting, O-ring type Cobra, 20°
	AF4-30615	Fitting, O-ring type Cobra, Straight
	AF4-31105	Fitting, O-ring type Test Cap
	AF4-30613	Fitting, O-ring type Cobra, Cap
NOT SHOWN	P1-30559	Pin, Lock O-ring Fittings
NOT SHOWN	S3-30563-001	O-ring, for Fittings #306



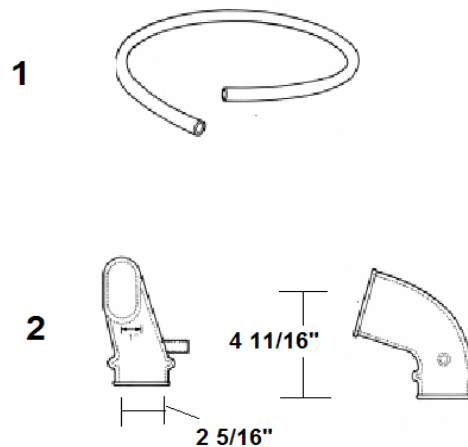
OTHER FITTINGS AND CHECK VALVES

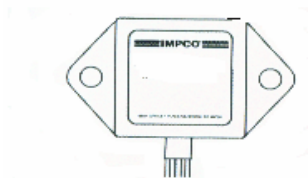
ITEM #	PART #	DESCRIPTION
NOT SHOWN	AF4-66	Fitting, 1/8 NPT Adapter w/ Ball Check
NOT SHOWN	F4-25764	Fitting, Closed Loop Tee
NOT SHOWN	AF4-30125	Fitting, Check Valve Ass'y

HOSES

ITEM #	PART #	DESCRIPTION
1	H1-5	Hose, 7/32" O.D. for 1/4" fittings
2	AH1-13	Hose ass'y, for Datsun forklift
3	FL-2025	Hose, Preformed Goodyear #3007
	H1-14105-2	Hose, 3/4" I.D. Fuel Vapor
	H1-14105-4	Hose, 5/8" I.D. Fuel Vapor
	T1-25665	Fuel Line Connector
	T1-7	Tube, .188" O.D. .035" Wall .63" L

Note: Indicate length desired as quantity.

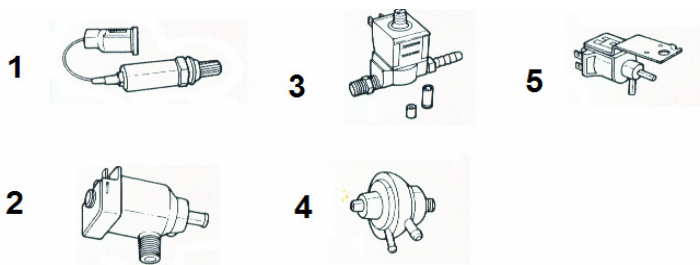


FUEL CONTROL PARTS
FUEL CONTROL PROCESSORS


ITEM #	DESCRIPTION
ADP	Advance Digital Processor New Gen.
AE2-19316	Assembly, ADP Ford QVM
AC8-16910	Tee Connector Ass'y GM Rodeo
CDP-1DX4	Microprocessor 4 Cyl.
EK-CDP-1	Commander Kit
EKCDP-1DX-4	Kit, Microprocessor, 4 Cyl.
EKCDP-1DX-6	Kit, Microprocessor, 6 Cyl.
5952	Digital Fuel controller

MIXTURE CONTROL OPTIONS

PART #	DESCRIPTION
AB1-16	Auxiliary line power adjuster, 1-1/4 NPT
AB1-32	Auxiliary line power adjuster, 1 NPT
AB1-54	Gas metering valve Todd meter, 1 NPT
AC1-74	Tower ass'y, adjusting, for PEV, PJ & PK regulators
J1-21	Jet, 2.5 mm (0.100"), feedback bleed
R1-29	Ring, shim, 100 series mixers, to lean fuel mixtures
R1-30	Ring, shim, 200 series mixers, to lean fuel mixtures
S2-35	Spring, JB/JK/Cobra series, Neg. 0.37 kPa (Neg. 1.5" H2O)
S2-37	Spring, secondary, PE, 0.92-1.6 kPa (3.7-6.5" H2O), brown
S2-38	Spring, JO/KO/Cobra series, Neg. 0.12 kPa (Neg. 0.50" H2O), orange
S2-106	Spring, regulator, 0.50-0.70 kPa (2.0-2.8" H2O), zinc
S2-109	Spring, regulator, PEV, 0.67-0.96 kPa (2.7-3.85" H2O), white
V3-30958	Valve, Check Diaphragm
AW-25412	Fuel Switch Assy

SOLENOIDS, SENSORS & FUEL CONTROL PARTS


ITEM #	PART #	DESCRIPTION
1	FOS	Single-wire oxygen sensor
	FL-5026-10	Oxygen Sensor Boss 1018
2	SV	Start-assist valve
	RCV-15834	Regulator check valve, adjustable
3	FCV	Fuel control valve, for all feedback systems, for LPG & CNG applications
	FCV-25754	Fuel control valve, for all feedback systems, for LPG & CNG applications
	FCV-7	Fuel control valve, for all feedback systems, for LPG & CNG applications
	FCV-7KC	Fuel control valve, for all feedback systems, for ADP, CNG applications
	FCV-8	Fuel control valve, for all feedback systems, for LPG & CNG applications
4	VPV	Vacuum power valve
5	VCS	Vacuum control solenoid

GAS VALVE SEATS

PART #	DESCRIPTION
S4-12	Seat, Valve 50 M - 125M
S4-13	Seat, Idle Valve 425M
S4-15	Seat, Valve 200 - 600

TOOLS AND TEST EQUIPMENT**TEST EQUIPMENT**

ITEM #	DESCRIPTION
FSA-1000	Fuel system analyzer, shows O2 sensor voltage & duty cycle, used to calibrate closed-loop systems
ITK-1	IMPCO test kit, a must for all IMPCO fuel system diagnostics
ITK-2	IMPCO test kit, w/ Gasoline injector pressure test kit and DST Cables
G2-2	Gauge, used to set lever height, included in ITK-1
CUTAWAY-55	Cutaway Model 55

**TAMPER RESISTANT COMPONENTS**

ITEM #	DESCRIPTION
P3-15945-1	Plug, Knurl Insert Tamper Resistant
P3-15945-4	Plug, Knurl Insert Tamper Resistant
P3-17956-10	Plug, Expansion
P3-17956-8	Plug, Expansion

KITS AND MODULES

ITEM #	DESCRIPTION
BP-4T	Upgrade kit, Toyota, 4Y and 4P Engine
BP-8H	Upgrade kit, Hyster, Mazda 2L, OL
BP-8H-1	Upgrade kit, Hyster, Mazda 2L, CL
MD-19656	Module, Assy. 4.3L GM (Proprietary)
MD-K8521AK	Kit, Komatsu, AX/BX LPG Series
MD-K8529AK	Kit, Komatsu, ZC LPG Series
TC2-9-C1	Turbo Control Valve (CAT)
S2-53	Spring Turbo Control Valve
G1-95	Gasket Turbo Control
AS1-6	Screw, Assy S1-162 Washer & Cap

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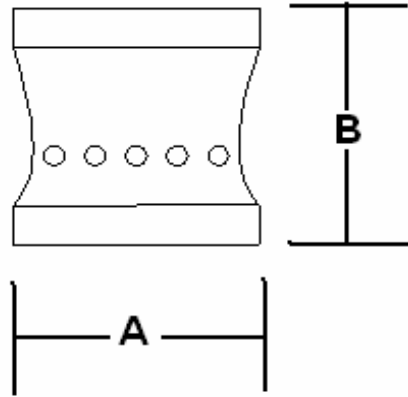
MASTER CATALOG
INTRODUCTION

FUEL METERING



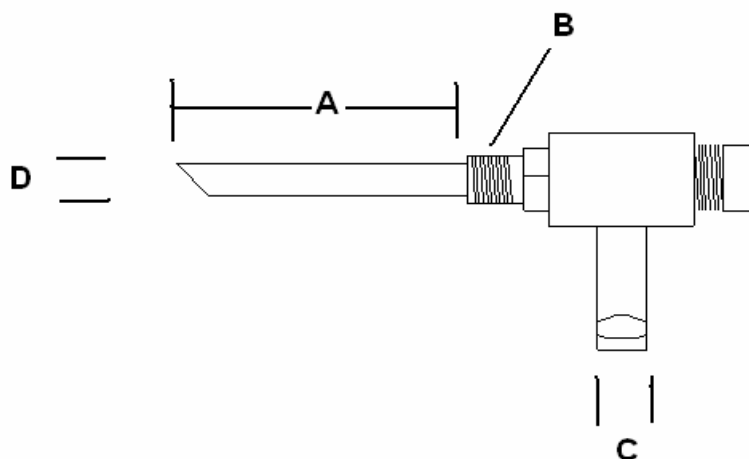
IMPCO TECHNOLOGIES Inc.
16804 GRIDLEY PLACE
CERRITOS CA. 90703-1741
Phone - (562)-860-6666
E-Mail - www.impcو.ws

111 SERIES VENTURI

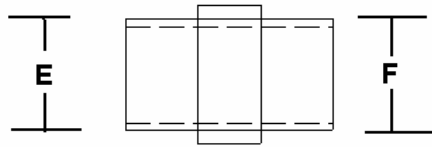
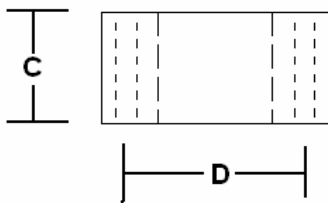


	A	B	C
PART #	DIAMETER O.D.	OVERALL HEIGHT	VENTURI
111-20	23.8 mm (.9375)	19 mm (.75")	20
111-22	31.7 mm (1.25")	31.7 mm (1.25")	22
112-26	31.7 mm (1.25")	31.7 mm (1.25")	26
113-18	31.7 mm (1.25")	31.7 mm (1.25")	18
113-20	31.7 mm (1.25")	31.7 mm (1.25")	20
113-22	31.7 mm (1.25")	31.7 mm (1.25")	22
113-26	31.7 mm (1.25")	31.7 mm (1.25")	26
134-32	38.1 mm (1.5")	25.4 mm (1.0")	32
178-26	41.2 mm (1.625)	25.4 mm (1.0")	26
225A-34	50.8 mm (2.0")	36.5 (1.4375")	34
251A-28	52.3 mm (2.0625")	34.9 mm (1.375")	28

2F SERIES SPUD IN TUBES



	A	B	C	D
PART #	TUBE LENGTH	THREAD SIZE	INLET TUBE DIA.	TUBE DIA.
2F-125	50.8 mm (2.0")	3/8" - 24	9.5 mm (.375")	7.9 mm (.312")
2F-245	63.5 mm (2.50")	5/16" - 24	9.5 mm (.375")	5.7 mm (.228")
2F-247	63.5 mm (2.50")	5/16" - 24	9.5 mm (.375")	5.7 mm (.228")
2F-256	63.5 mm (2.50")	5/16" - 24	9.5 mm (.375")	5.7 mm (.228")
2F-275	53.9 mm (2.125")	5/16" - 24	9.5 mm (.375")	5.7 mm (.228")
2F-275A	53.9 mm (2.125")	5/16" - 24	9.5 mm (.375")	5.7 mm (.228")
PART #	DESCRIPTION			
2F-249	Gland Nut			

DIMENSIONS
A. = CARBURETOR ADAPTER TYPE
B. = AIR HORN ADAPTER TYPE


	A	B	C	D	E	F
	TYPE	TYPE		CTR. TO CTR. BOLTS	INLET O.D.	OUTLET O.D.
1433		B			43.2 mm (1.7031")	28.5 mm (1.125")
1435	A				43.9 mm (1.732")	
1436		B			26.9 mm (1.0625")	26.9 mm (1.0625")
1451	A			26.1 mm (1.03125")		
1455	A			46 mm (1.8125")		
1456	A			52 mm (2.04")		
1120A		B			25.4 mm (1.625")	25.4 mm (1.625")
1120D		B			38.1 mm (1.50")	25.4 mm (1.625")
1450A	A			38.1 mm (1.5")		
1770S		B			46 mm (1.8125")	39.6 mm (1.5625")
4C-312C		B			51.5 mm (2.03125")	39.6 mm (1.5625")
4C-314		B			50.8 mm (2.21875")	50.8 mm (2.21875")

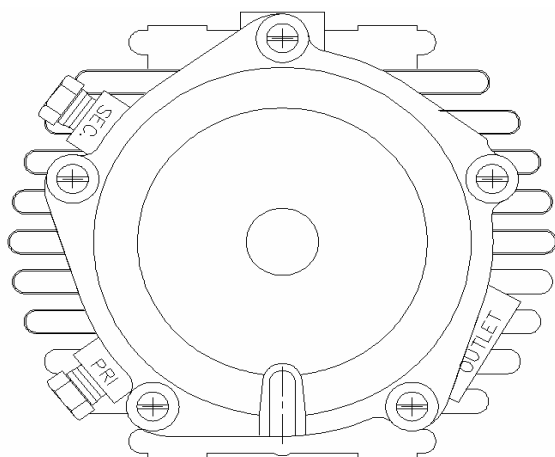


MASTER CATALOG
INTRODUCTION

REGULATORS



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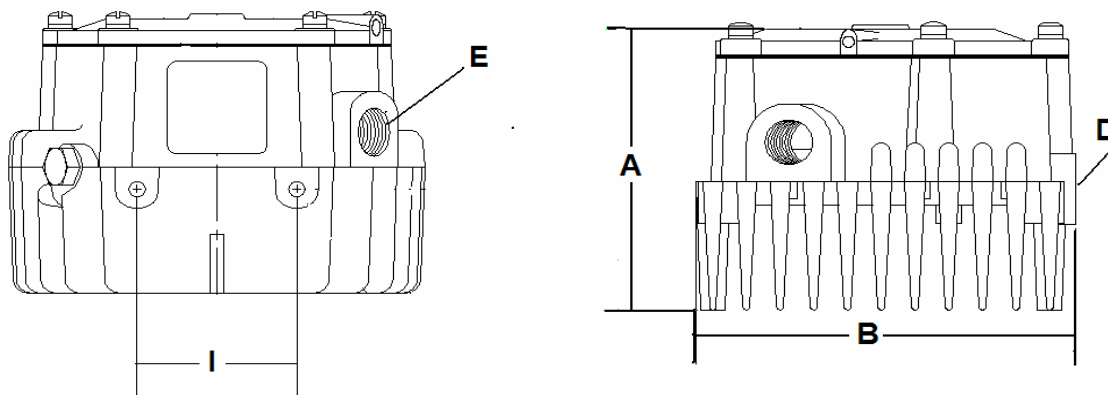
MODEL AHR-50D STANDARD REGULATOR**TECHNICAL DESCRIPTION**

The AHR-50D Series Vaporizer regulator is a two-stage regulator. It is a air heated unit and requires no external heat source such as engine coolant to perform the vaporization process. The AHR-50D is available in several different variations. The unit can be used with liquid or vapor withdrawal systems. It is a UL listed component.

TECHNICAL SPECIFICATIONS

Fuel Type	Propane Liquid or vapor withdrawal
Capacity	29 kw (40 hp)
Heating Source	Air heated
Mounting Position	Vertical
Max. Inlet Pressure	2150 kPa (312 psig)
Minimum Inlet Pressure	551 kPa (80 psig)
Pressure	
Primary	20.0 kPa (3.0 psi)
Secondary Give-up Pressure	-0.13 kPa (-0.50 w.c.)
Temperature	-40°C to 121°C (-40°F to 250°F)
Weight	56 g (33 oz)

DIMENSIONS



A	B	C	D	E	F	G	H	I
OVERALL HEIGHT	OVERALL WIDTH	OVERALL DEPTH	FUEL INLET NPT	FUEL OUTLET NPT	VACUUM PORT NPT	PRIMARY ORIFICE	SECONDARY ORIFICE	MOUNTNG HOLE SIZE & CENTER TO CENTER
95.2 mm (3.75")	116.5 mm (4.59")	N/A	1/4"	1/4"	1/8 "	3.5 mm (.135")	5.3 mm (.210")	1/4"- 20 50.8 mm (2.0") c-c

J

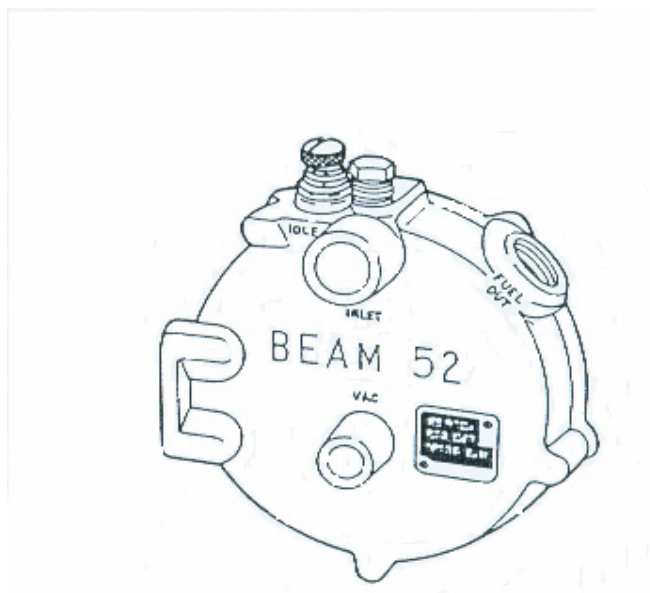
WEIGHT

.80 kg
(28.3 OZ)

REPAIR KIT

PART #	DESCRIPTION
50ERK	Kit Repair Model 50

MODEL 52 STANDARD REGULATOR



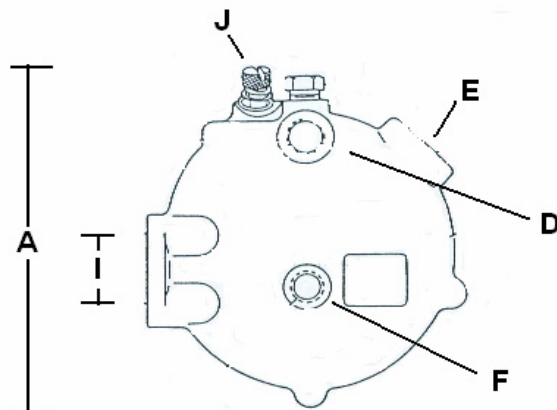
TECHNICAL DESCRIPTION

The IMPCO Beam model 52 is a single stage secondary regulator which can be used with Propane or Natural Gas. The model 52 is a secondary regulator only and requires a primary regulator to be installed ahead of its inlet. The unit can be equipped with an internal vacuum lock-off and has an idle adjustment and pressure test port. The unit is a UL listed component.

TECHNICAL SPECIFICATIONS

Fuel Type	LPG or Natural Gas
Capacity	
LPG	30 kw (40 hp)
Natural Gas	6 kw (8 hp)
Fuel Lock-Off	Built-in Vacuum Lock
Heating Source	None
Mounting Position	Vertical
Max. Inlet Pressure	1720 kPa (250 psig)
Pressure	
Primary	27.5 kPa (4.0 psi) @ 25° C (77° F)
Temperature	-40°C to 121°C (-40°F to 250°F)
Weight	396 g (14 oz)

DIMENSIONS

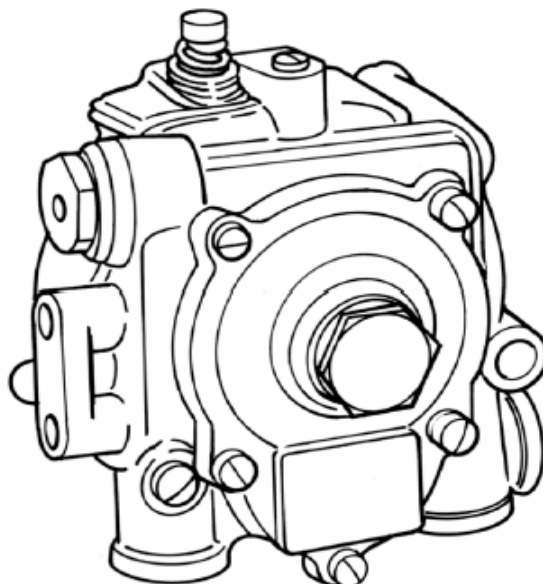


	A	B	C	D	E	F	G	H	I
	OVERALL HEIGHT	OVERALL DEPTH	WEIGHT	FUEL INLET NPT	FUEL OUTLET NPT	VACUUM PORT NPT	PRIMARY ORIFICE	SECONDARY ORIFICE	MOUNTNG HOLE SIZE & CENTER TO CENTER
52B	101 mm (4.0")	50.8 mm (2.0")	396 g (14 oz)	1/4" NPT	3/8" NPT	1/8" NPT	3.175 mm (.125")	4.7 mm (.1875")	1/4"- 20 50.8 mm (2.0") c-c
52N	101 mm (4.0")	50.8 mm (2.0")	396 g (14 oz)	1/4" NPT	3/8" NPT	1/8" NPT	3.175 mm (.125")	4.7 mm (.1875")	1/4"- 20 50.8 mm (2.0") c-c
52N-C	101 mm (4.0")	50.8 mm (2.0")	396 g (14 oz)	1/4" NPT	3/8" NPT	1/8" NPT	3.175 mm (.125")	4.7 mm (.1875")	1/4"-20 50.8 mm (2.0") c-c
52B-B	101 mm (4.0")	50.8 mm (2.0")	396 g (14 oz)	1/4" NPT	3/8" NPT	1/8" NPT	3.175 mm (.125")	4.7 mm (.1875")	1/4"-20 50.8 mm (2.0") c-c
52B-D	100 mm (4.0")	100 mm (4.0")	397g (14 oz.)	1/4" NPT	3/8" NPT	1/8" NPT	4.8 mm (0.19")	5.6 mm (0.22")	1/4"- 20 50.8 mm (2.0") c-c

	J	K	L
	IDLE SCREW	MANUAL PRIMER	VACUUM LOCKOFF
52B	YES	NO	YES
52N	YES	NO	YES
52N-C	NO	YES	NO
52B-B	YES	YES	YES
52B-D	NO	NO	NO

REPAIR KIT

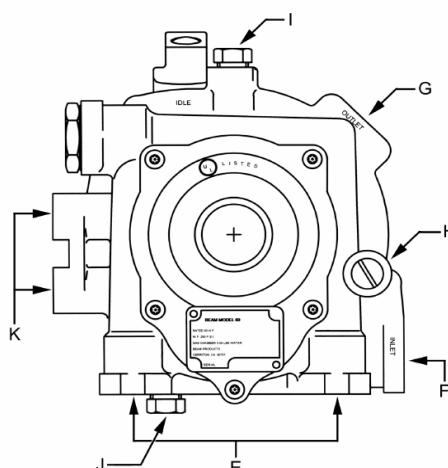
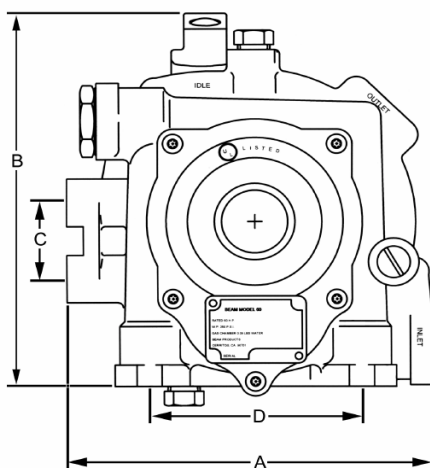
PART #	DESCRIPTION
52B-RBK	Kit, Repair Model 52

MODEL T60 STANDARD REGULATOR**TECHNICAL DESCRIPTION**

The IMPCO Beam T60 is a two-stage regulator for LPG application up to 45 kW (60hp). Various models feature; built-in vacuum lockoffs, idle adjustment and various heating methods. The T60 is UL approved for LPG fuel application.

TECHNICAL SPECIFICATIONS

Fuel Type	Propane Liquid withdrawal
Capacity	45 kw (60 hp)
Fuel Lock-Off	Built-in Vacuum Lock
Heating Source	Engine Coolant
Mounting Position	Vertical
Max. Inlet Pressure	1720 kPa (250 psig)
Pressure	
Primary	31.0 kPa (4.50 psi)
Secondary Give-up Pressure	-0.13 kPa (-0.50 w.c.)
Temperature	'-40°C to 121°C (-40°F to 250°F)
Weight	680 g (24 oz)

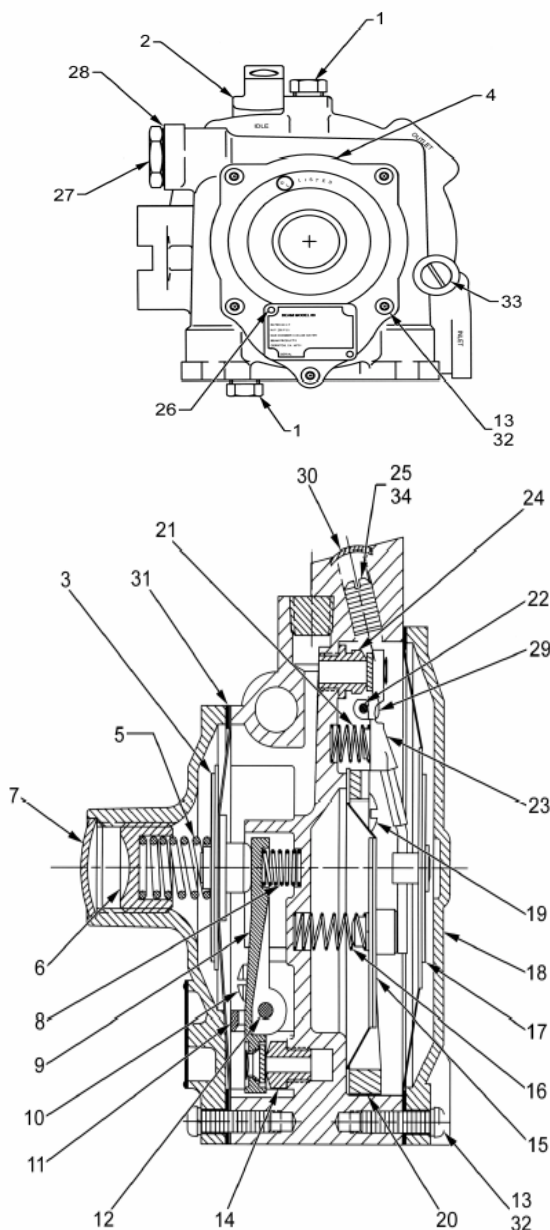
DIMENSIONS


MODEL	A OVERALL WIDTH	B OVERALL HEIGHT	C OVERALL DEPTH	D MOUNTING HOLES CTR. TO CTR.	E COOLANT IN/OUT CTR. TO CTR.	F COOLANT INLET AND OUTLET (NPT)	G LIQUID FUEL INLET (NPT)	H VAPOR FUEL OUTLET (NPT) G1	I VACUUM PORTS (NPT)
T60	110 mm (4.350")	124 mm (4.875")	82.6 mm (3.250")	25.4 mm (1.000")	66.7 mm (2.625")	1/4"	1/4"	3/8"	1/8"
T60-B	110 mm (4.350")	124 mm (4.875")	82.6 mm (3.250")	25.4 mm (1.000")	66.7 mm (2.625")	1/4"	1/4"	3/8"	1/8"
T60-C	110 mm (4.350")	124 mm (4.875")	82.6 mm (3.250")	25.4 mm (1.000")	66.7 mm (2.625")	1/4"	1/4"	3/8"	1/8"
T60-E	110 mm (4.350")	124 mm (4.875")	82.6 mm (3.250")	25.4 mm (1.000")	66.7 mm (2.625")	1/4"	1/4"	3/8"	1/8"
T60-G	110 mm (4.350")	124 mm (4.875")	82.6 mm (3.250")	25.4 mm (1.000")	66.7 mm (2.625")	1/4"	1/4"	3/8"	1/8"
T60-H	110 mm (4.350")	124 mm (4.875")	82.6 mm (3.250")	25.4 mm (1.000")	66.7 mm (2.625")	1/4"	1/4"	3/8"	1/8"

H VACUUM PORTS (NPT)	I PRIMARY TEST PORTS (NPT)	J OIL DRAIN (NPT)	K MOUNTING HOLE DIAMETER	L PRIMARY ORIFICE	M SECONDARY ORIFICE	N IDLE SCREW	O INTERGAL LOCKOFF	P PRIMER	Q WEIGHT
1/8"	1/8"	1/8"	1/4"-20 UNF	3.2 mm (0.13")	4.8 mm (0.19")	Yes	Yes	No	680 g (24 oz.)
1/8"	1/8"	1/8"	1/4"-20 UNF	3.2 mm (0.13")	4.8 mm (0.19")	No	Yes	Yes	680 g (24 oz.)
1/8"	1/8"	1/8"	1/4"-20 UNF	3.2 mm (0.13")	4.8 mm (0.19")	No	No	Yes	680 g (24 oz.)
1/8"	1/8"	1/8"	1/4"-20 UNF	3.2 mm (0.13")	4.8 mm (0.19")	No	No	No	680 g (24 oz.)
1/8"	1/8"	1/8"	1/4"-20 UNF	3.2 mm (0.13")	4.8 mm (0.19")				680 g (24 oz.)
1/8"	1/8"	1/8"	1/4"-20 UNF	3.2 mm (0.13")	4.8 mm (0.19")				680 g (24 oz.)

MODEL T60 REGULATORS

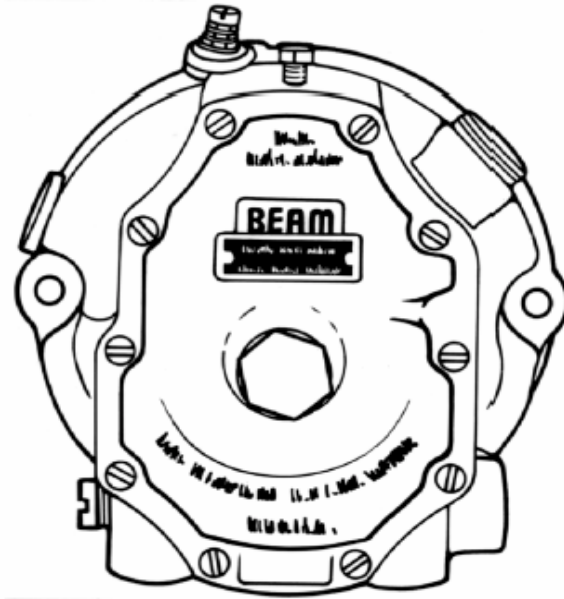
ITEM #	PART #	DESCRIPTION
1	P3-13	Plug, 1/8"-27 NPT
2	NSS	Casting, regulator body
3	NSS	Diaphragm ass'y
4	NSS	Cover, primary regulator
5	NSS	Spring, primary
6	NSS	Screw, retainer, adjustable spring
7	NSS	Plug, expansion
8	NSS	Spring, primary lever
9	NSS	Lever ass'y, primary
10	NSS	Screw, filister head, 10-32 UNF-2A, 5/16"
11	NSS	Bridge, primary
12	NSS	Pin, primary pivot
13	NSS	Screw, Torx head, 10-32 UNF-2A x 5/8"
14	60-29A	Orifice, primary regulator
15	60-15A	Diaphragm ass'y, vacuum lock
16	60-14	Spring, vacuum lock
17	NSS	Diaphragm, secondary
18	NSS	Cover, secondary regulator
19	60-23A	Cover, secondary regulator, auto primer
20	NSS	Screw, pan head, 10-32 UNF-2A x 3/8"
21	60-16	Ring, vacuum lock
22	60-17	Spring, secondary lever
23	NSS	Pin, secondary pivot
24	60-19B	Lever ass'y, secondary
25	60-28	Orifice, secondary regulator
26	S1-17367	Screw, adjustment
27	NSS	Screw drive, type U
28	400-25	Plug, relief
29	NSS	Plug, water core
30	NSS	Gasket, plug
31	NSS	Gasket, fuel inlet, copper
32	NSS	Screw, pan head, 10-32 UNF-2A x 1/4"
33	P3-17956-1	Plug, expansion
34	NSS	Gasket, diaphragm
35	NSS	Washer, split lock
36	NSS	Plug, 1/8" P-slotted head
37	NSS	Screw, 1/4"-28



NSS = Not Serviced Separately

REPAIR KIT

PART #	DESCRIPTION
T60-RBK	Rebuild Kit, Minor T60
T60-RCK	Rebuild Kit, Major T60
T60-RK	Repair kit, T60

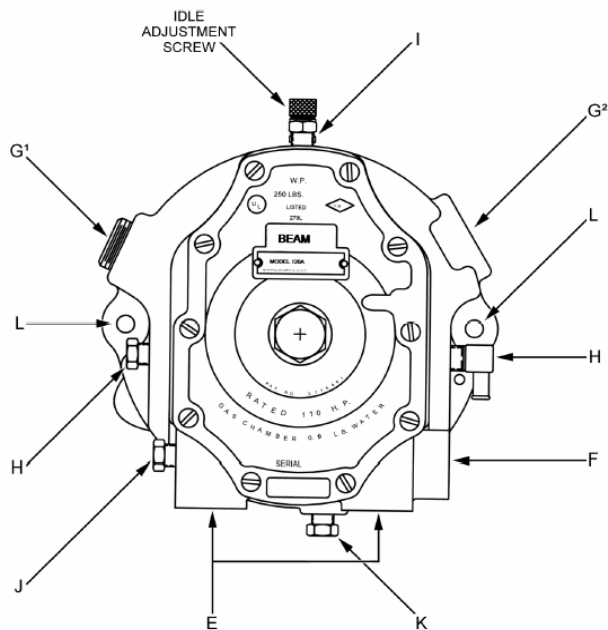
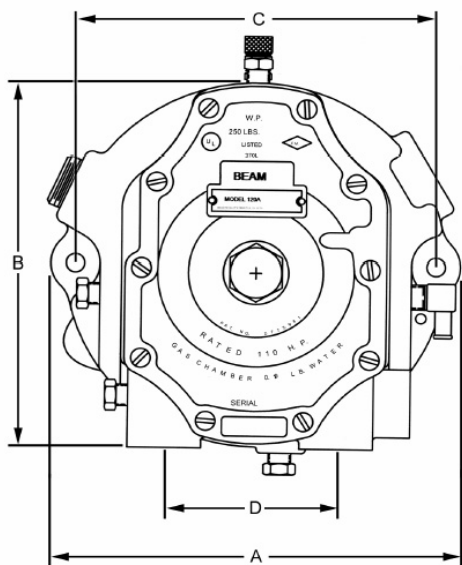
MODEL 120 STANDARD REGULATOR**TECHNICAL DESCRIPTION**

The IMPCO Beam 120A regulator is a two-stage engine coolant heated regulator. It can be used with any LPG carburetor for applications up to 111.9 kW (150hp). The 120A is equipped with an internal vacuum lock-off which automatically shuts off the fuel when the engine stops. The 120A is a UL listed regulator.

TECHNICAL SPECIFICATIONS

Fuel Type	Propane Liquid withdrawal
Capacity	111 kw (150 hp)
Fuel Lock-Off	Built-in Vacuum Lock
Heating Source	Engine Coolant
Mounting Position	Vertical
Max. Inlet Pressure	1720 kPa (250 psig)
Pressure	
Primary	34.0 kPa (4.50 psi)
Temperature	-40°C to 121°C (-40°F to 250°F)
Weight	2.04 kg (4.5 lbs)

DIMENSIONS

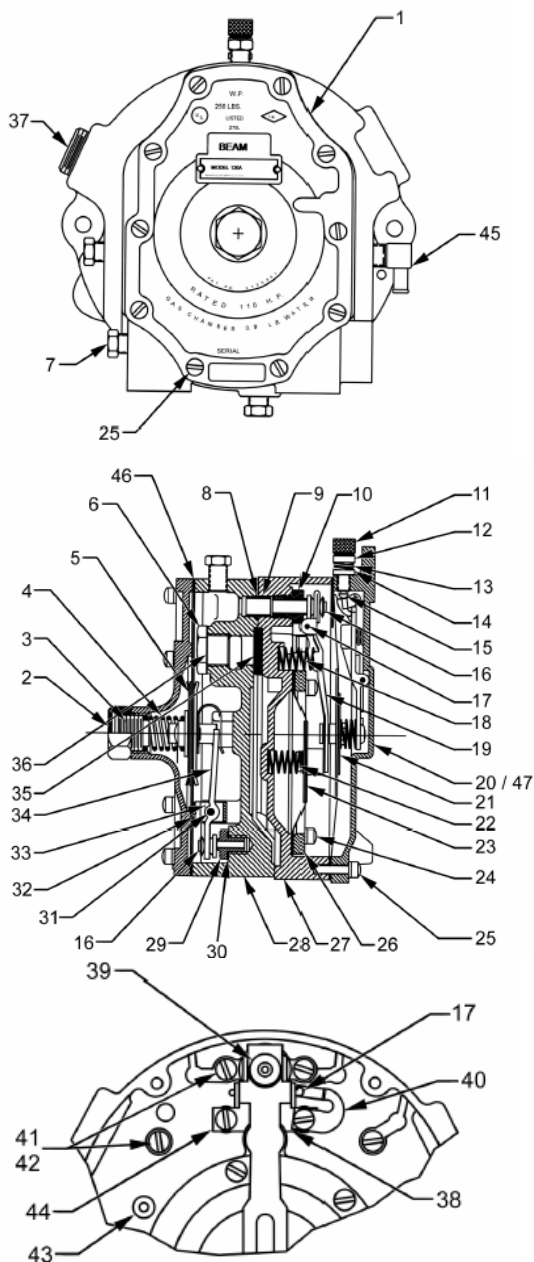


	A	B		C	D	E	F	G1	G2
MODEL	OVERALL WIDTH	OVERALL HEIGHT	OVERALL DEPTH	MOUNTING HOLES CTR. TO CTR.	COOLANT IN/OUT CTR. TO CTR.	COOLANT INLET AND OUTLET (NPT)	LIQUID FUEL INLET (NPT)	VAPOR FUEL OUTLET (NPT)	VAPOR FUEL OUTLET (NPT)
120 A	146 mm (5.75")	157 mm (6.188")	130 mm (5.125")	140 mm (5.500")	63.5 mm (2.500")	3/8"	1/4"	1/2"	3/4"
120 A-P	159 mm (6.250")	157 mm (6.188")	130 mm (5.125")	140 mm (5.500")	63.5 mm (2.500")	3/8"	1/4"	1/2"	3/4"
	H	I	J	K	L	M			
	VACUUM PORTS (NPT)	PRIMARY TEST PORTS (NPT)	WATER DRAIN (NPT)	OIL DRAIN (NPT)	MOUNTING HOLE DIAMETER	WITH IDLE SCREW			
120 A	1/8"	1/8"	1/8"	1/8"	6.4 mm (0.250")	Yes			
120 A-P	1/8"	1/8"	1/8"	1/8"	6.4 mm (0.250")	Yes			

MODEL 120A REGULATORS

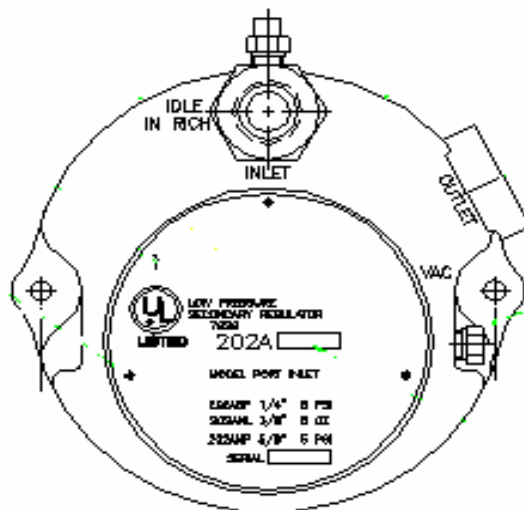
ITEM #	PART #	DESCRIPTION
1	NSS	Cover, primary machine
2	60-32A	Cap, spring retainer
3	NSS	Retainer, spring
4	NSS	Spring, primary pressure
5	NSS	Diaphragm ass'y, primary
6	NSS	Plug, water core
7	P3-13	Plug, 1/8 NPT
8	NSS	Seal, o-ring
9	NSS	Tube, fuel passage
10	NSS	Orifice, secondary regulator
11	PS-25-1	Screw, idle adjustment
12	NSS	Sleeve, spacer
13	NSS	Spring, idle adjustment
14	NSS	Cup, spring retainer
15	NSS	Pin, primer
16	3BRV	Valve, viton face
17	NSS	Pin, secondary pivot
18	NSS	Spring, secondary lever
19	NSS	Lever, secondary regulator
20	NSS	Cover, sub-ass'y
21	120-22	Diaphragm, secondary
22	NSS	Spring, vacuum lock
23	NSS	Diaphragm, vacuum lock
24	NSS	Screw, 10-32 UNF-2A
25	NSS	Screw, 10-32 UNF-2A
26	NSS	Ring, vacuum lock
27	NSS	Body, secondary
28	NSS	Body, converter
29	NSS	Orifice, primary regulator
30	NSS	Gasket, primary orifice
31	NSS	Pin, primary pivot
32	NSS	Screw, 10-32 UNF-2A
33	NSS	Bracket, primary lever
34	NSS	Lever, primary regulator
35	130-5	Plug, neoprene expansion
36	NSS	Gasket, plug
37	NSS	Plug, 1/2"-14 NPT
38	NSS	Bracket, secondary lever
39	NSS	3 br, cupped spring
40	NSS	Keeper
41	NSS	Screw, fillister head, 10"-32 thread w/ patch lock
42	NSS	Washer
43	NSS	Seal, o-ring
44	NSS	Screw, 10"-32 UNF-2A
45	F4-8	Fitting hose, 1/8 NPT x 1/4" x 90'
46	NSS	Gasket, primary diaphragm
47	NSS	Cover, secondary

NSS = Not Serviced Separately


REPAIR KIT

PART #	DESCRIPTION
120A-RBK	Kit, Rebuilding
120A-RCK	Kit, Complete rebuilding
120A-RK	Kit< Repair

MODEL 202 STANDARD REGULATOR



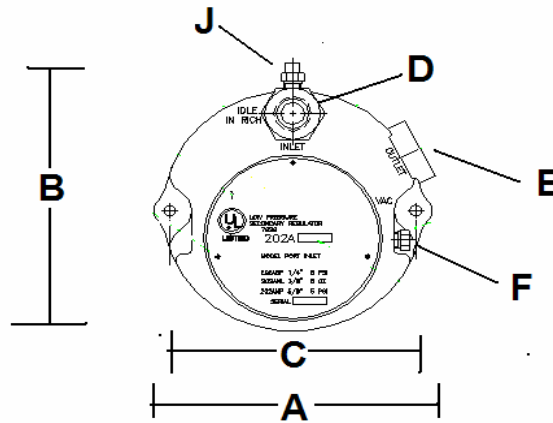
TECHNICAL DESCRIPTION

The IMPCO Beam Model 202A is a high capacity, secondary, dry gas pressure regulator designed for use with vapor withdrawal Propane or Natural Gas. The unit is available in several variations. The unit can be equipped with an integral vacuum controlled fuel lock-off which shuts off fuel supply when the engine stops. It is also available with idle screw and optional manual primer. The unit is a UL listed component.

TECHNICAL SPECIFICATIONS

Fuel Type	Vapor withdrawal Propane or Natural Gas
Capacity	
202AN	33 kw (45 hp)
Fuel Lock-Off	Built-in Vacuum Lock
Heating Source	None
Mounting Position	Vertical
Max. Inlet Pressure	3.5 kPa (14 in w.c.)
Pressure Outlet	-125 Pa (-0.5 in w.c.)
Temperature	-40°C to 121°C (-40°F to 250°F)
Weight	790 g (28 oz)

DIMENSIONS



	A	B		C	D	E	F	G
MODEL	OVERALL WIDTH	OVERALL HEIGHT	OVERALL DEPTH	MOUNTING HOLES CTR. TO CTR.	FUEL INLET (NPT)	FUEL OUTLET (NPT)	VACUUM PORTS (NPT)	PRIMARY TEST PORTS (NPT)
202 ANL	158.7 mm (6.25")	190 mm (7.5")	790 g (28 oz)	140 mm (5.50")	1/2"	3/4"	1/8"	1/8"
202 ANL-C	158.7 mm (6.25")	190 mm (7.5")	790 g (28 oz)	140 mm (5.50")	1/2"	3/4"	1/8"	1/8"
202ANL-E	158.7 mm (6.25")	190 mm (7.5")	790 g (28 oz)	140 mm (5.50")	1/2"	3/4"	1/8"	1/8"
T202-ANL-E	158.7 mm (6.25")	190 mm (7.5")	790 g (28 oz)	140 mm (5.50")	1/2"	3/4"	1/8"	1/8"
202ABP	158.7 mm (6.25")	190 mm (7.5")	790 g (28 oz)	140 mm (5.50")	1/2"	3/4"	1/8"	1/8"

	H	J	K	L	M
	PRIMARY ORIFICE	IDLE SCREW	INTERGAL LOCKOFF	PRIMER	WEIGHT
202 ANL	9.5 mm (0.38")	Yes	Yes	No	790 g (28 oz)
202 ANL-C	9.5 mm (0.38")	No	No	Yes	790 g (28 oz)
202ANL-E	9.5 mm (0.38")	Yes	No	No	790 g (28 oz)
T202-ANL-E	9.5 mm (0.38")	Yes	No	No	790 g (28 oz)
202ABP	6.4 MM (0.25)	Yes	Yes	No	790 g (28 oz)

REPAIR KIT

PART #	DESCRIPTION
T202-RBK	Rebuild kit, 202
T202-RK	Repair kit, 202



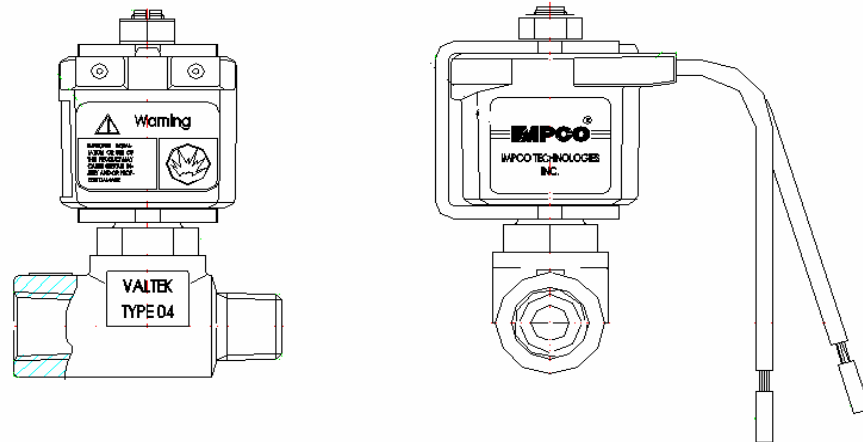
MASTER CATALOG
INTRODUCTION

LOCKOFFS



IMPCO TECHNOLOGIES Inc.
16804 GRIDLEY PLACE
CERRITOS CA. 90703-1741
Phone - (562)-860-6666
E-Mail - www.impcoweb.com

L-204 SERIES



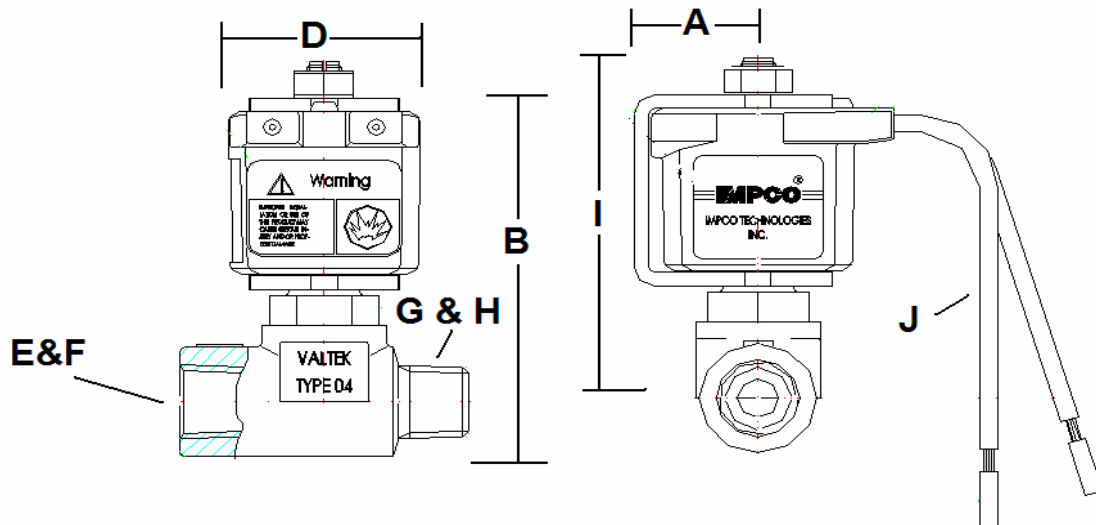
TECHNICAL DESCRIPTION

The FL-204 is a normally closed 12 VDC electric solenoid shut off valve, suitable for use with LPG or low pressure CNG applications. The FL-204 can be used with the IMPCO fuel management systems.

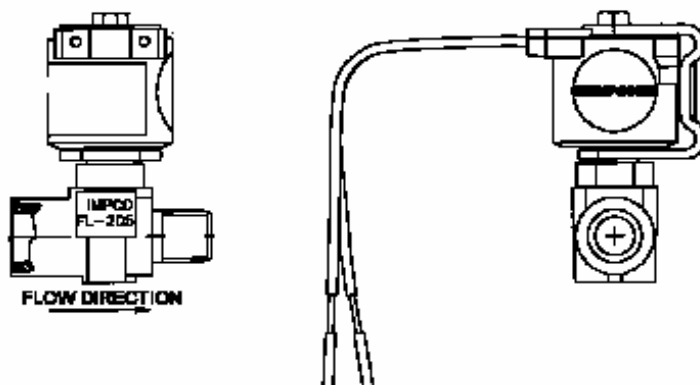
TECHNICAL SPECIFICATIONS

Fuel Type	LPG or Low Pressure CNG
Pressure (max. working)	1720 kPa (250 psi)
Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Flow Rating	100 L/h @ 19.6 kPa (24.6 gal/h @ 2.84 psi)
Voltage Requirement	12 vdc
Mass	266 g (9.4oz)
Certification	UL

DIMENSIONS



	A	B	C	D	E	F	G	H	I	J	K
MODEL	CENTER OF SOLENOID TO WIDEST POINT	OVERALL HEIGHT	VALVE BODY LENGTH	SOLND. DIA.	INLET THREAD TYPE	INLET THREAD SIZE (NPT)	OUTLET THREAD TYPE	OUTLET THREAD SIZE (NPT)	CTR. OF VALVE TO TOP OF SOLND.	# OF WIRES	WEIGHT
L-204	21 mm (0.826")	71 mm (2.80")	49 mm (1.929")	32 mm (1.26")	FEMALE	1/4"-18	MALE	1/4"-18	59 mm (2.32")	2	266g (9.4 oz.)

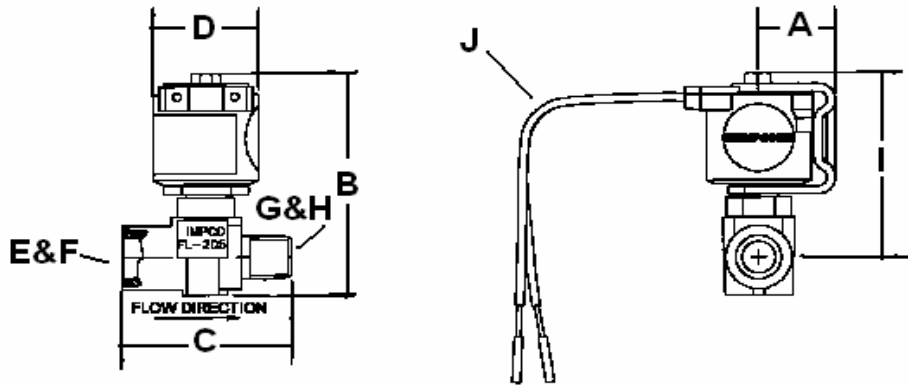
FL-205 SERIES**TECHNICAL DESCRIPTION**

The FL-205 is a normally closed 12 VDC electric solenoid shut off valve, suitable for use with LPG or low pressure CNG applications. The FL-205 can be used with any IMPCO fuel management system.

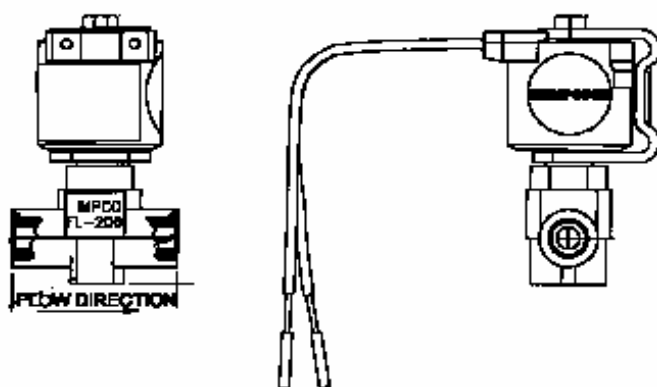
TECHNICAL SPECIFICATIONS

Fuel Type	LPG or Low Pressure CNG
Pressure (max. working)	1720 kPa (250 psi)
Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Flow Rating	100 L/h @ 19.6 kPa (24.6 gal/h @ 2.84 psi)
Voltage Requirement	12 VDC
Mass	266 g (9.4oz)
Certification	UL

DIMENSIONS



MODEL	A CENTER OF SOLENOID TO WIDEST POINT	B OVERALL HEIGHT	C VALVE BODY LENGTH	D SOLND. DIA.	E INLET THREAD TYPE	F INLET THREAD SIZE (NPT)	G OUTLET THREAD TYPE	H OUTLET THREAD SIZE (NPT)	I CTR. OF VALVE TO TOP OF SOLND.	J # OF WIRES	K WEIGHT
FL-205	23 mm (0.91")	71 mm (2.80")	51 mm (2.01")	32 mm (1.26")	FEMALE	1/4"-18	MALE	1/4"-18	59 mm (2.32")	2	266g (9.4 oz.)
FL-205-1	23 mm (0.91")	71 mm (2.80")	51 mm (2.01")	32 mm (1.26")	FEMALE	1/4"-18	MALE	1/4"-18	59 mm (2.32")	2	266g (9.4 oz.)

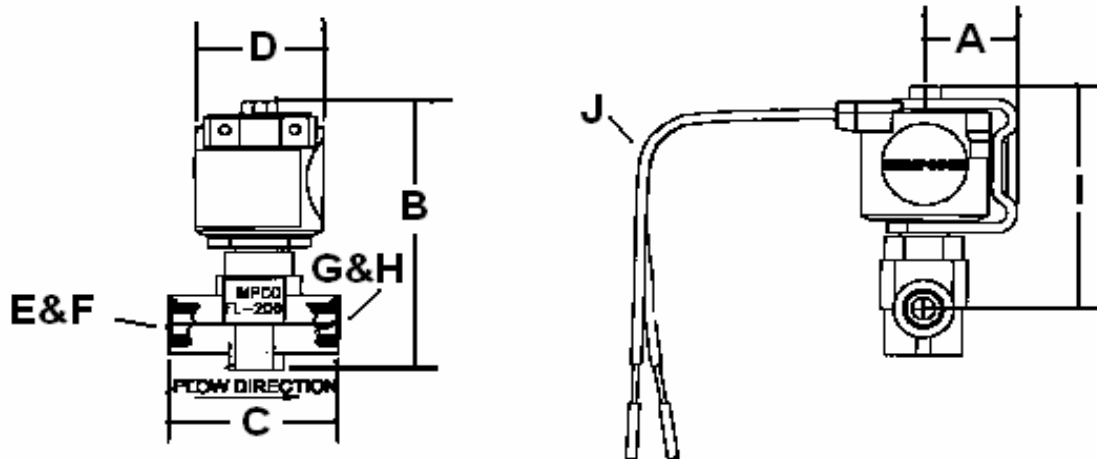
FL-206 SERIES**TECHNICAL DESCRIPTION**

The FL-206 is a normally closed 12 VDC electric solenoid shut off valve, suitable for use with gasoline applications. The FL-206 can be used with any IMPCO fuel management systems.

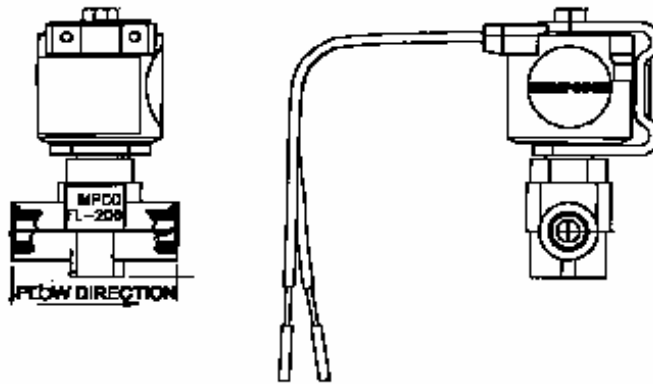
TECHNICAL SPECIFICATIONS

Fuel Type	Gasoline
Pressure (max. working)	270 kPa (30 psi)
Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Flow Rating	100 L/h @ 19.6 kPa (24.6 gal/h @ 2.84 psi)
Voltage Requirement	12 vdc
Mass	266 g (9.4oz)
Certification	UL

DIMENSIONS



MODEL	A CENTER OF SOLENOID TO WIDEST POINT	B OVERALL HEIGHT	C VALVE BODY LENGTH	D SOLND. DIA.	E INLET THREAD TYPE	F INLET THREAD SIZE (NPT)	G OUTLET THREAD TYPE	H OUTLET THREAD SIZE (NPT)	I CTR. OF VALVE TO TOP OF SOLND.	J # OF WIRES	K WEIGHT
FL-206	23 mm (0.91")	71 mm (2.80")	42 mm (1.65")	32 mm (1.26")	FEMALE	1/4"-18	FEMALE	1/4"-18	59 mm (2.32")	2	266g (9.4 oz.)

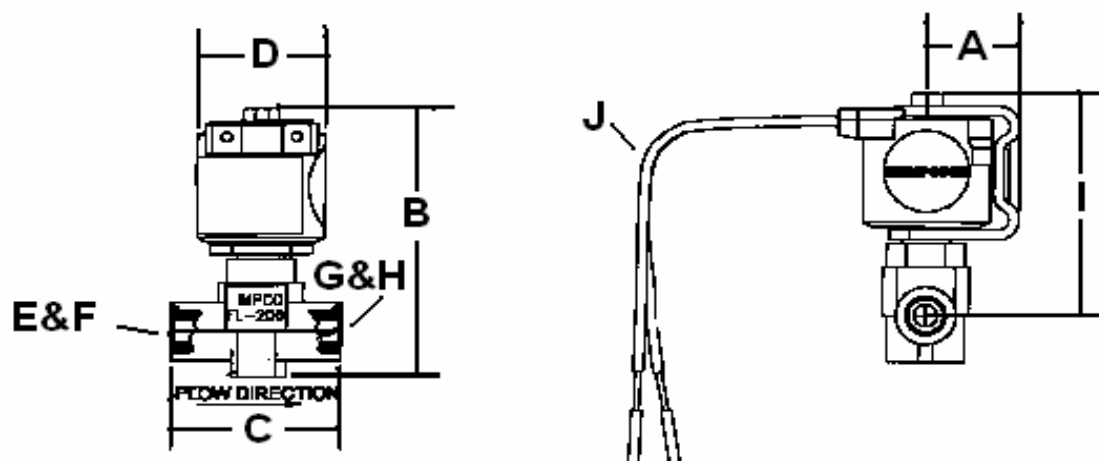
L-207 SERIES**TECHNICAL DESCRIPTION**

The L-207 is a normally closed 12 VDC electric solenoid shut off valve, suitable for use with LPG and low pressure CNG applications. The L-207 can be used with any IMPCO fuel management systems.

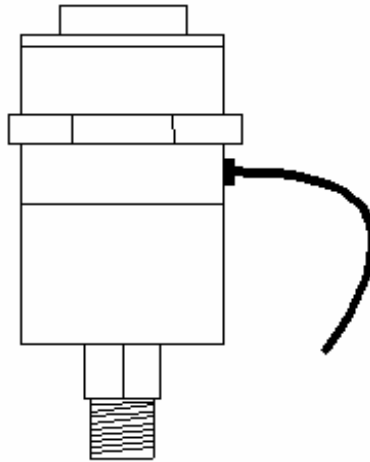
TECHNICAL SPECIFICATIONS

Fuel Type	LPG or Low Pressure CNG
Pressure (max. working)	1720 kPa (250 psi)
Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Flow Rating	100 L/h @ 19.6 kPa (24.6 gal/h @ 2.84 psi)
Voltage Requirement	12 vdc
Mass	266 g (9.4oz)
Certification	UL

DIMENSIONS



MODEL	A	B	C	D	E	F	G	H	I	J	K
	CENTER OF SOLENOID TO WIDEST POINT	OVERALL HEIGHT	VALVE BODY LENGTH	SOLND. DIA.	INLET THREAD TYPE	INLET THREAD SIZE (NPT)	OUTLET THREAD TYPE	OUTLET THREAD SIZE (NPT)	CTR. OF VALVE TO TOP OF SOLND.	# OF WIRES	WEIGHT
L-207	21 mm (0.826")	69.6 mm (2.74")	42 mm (1.65")	32 mm (1.26")	FEMALE	1/4"-18	FEMALE	1/4"-18	59 mm (2.32")	2	266g (9.4 oz.)

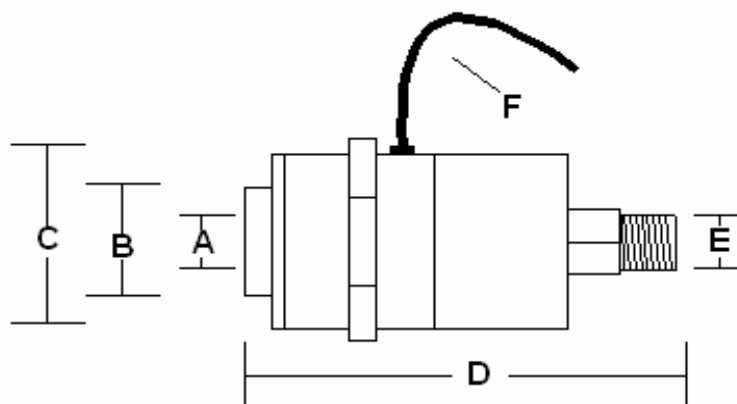
FL-218-12V SERIES**TECHNICAL DESCRIPTION**

The FL-218-12V heavy-duty electric shutoff solenoid valve, equipped with an integral filter. The solenoid is 12 volt operated and is normally closed. The internal replaceable filter allows for in-line filtration and can be used in conjunction with any IMPCO fuel management system.

TECHNICAL SPECIFICATIONS

Fuel Type	LPG only
Pressure (max. working)	1720 kPa (250 psi)
Operating Temperature	-40°C to 121°C (-40°F to 250°F)
Flow Rating	15.1 L/h @ 19.6 kPa (4.0 gal/h @ 2.84 psi)
Voltage Requirement	12 vdc
Mass	383g (10.0 oz.)
Filter Rating	40 Micron (1.6 mil)
Certification	UL

DIMENSIONS

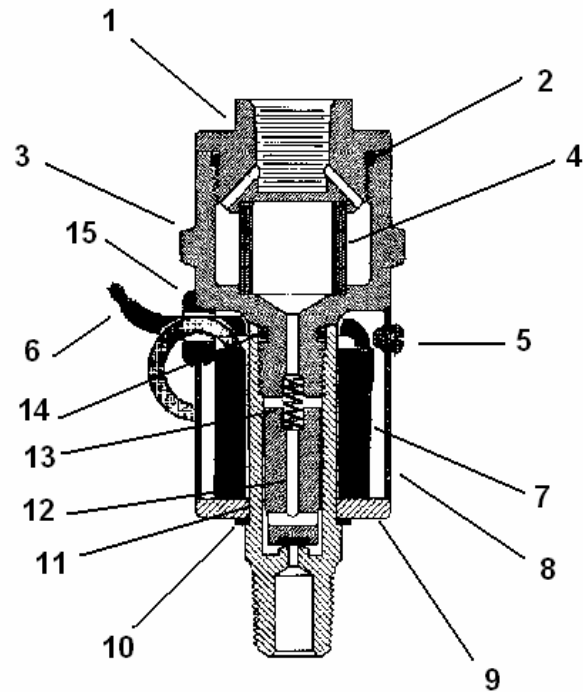


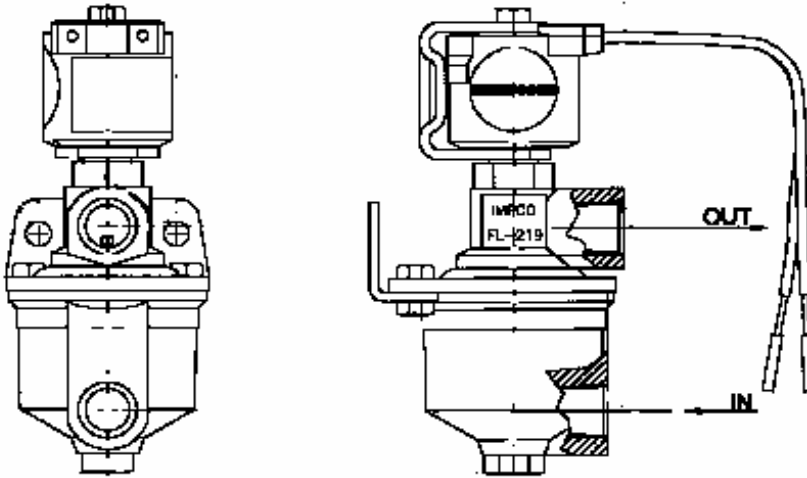
	A	B	C	D	E	F	G
MODEL	INLET THREAD SIZE (NPT)	HEX NUT SIZE	OVERALL WIDTH	OVERALL LENGTH	OUTLET THREAD SIZE (NPT)	# OF WIRES	WEIGHT
FL-218-12V	1/4"-18 (FEMALE)	3/4"	32 mm (1.25")	87 mm (1.26")	1/4"-18 (MALE)	1	510 g (18 oz.)

FL-218-12V SERIES

ITEM #	PART #	DESCRIPTION
1	NSS	Inlet, Filter
2	NSS	Seal, O-ring
3	NSS	Housing, Filter
4	FL-2512	Filter, Microbon
5	NSS	Screw, Machine
6	NSS	Terminal, Solderless
7	NSS	Coil
8	NSS	Housing, Coil
9	NSS	Plate, Outlet end
10	NSS	Body, Valve
11	NSS	Washer, Marvel
12	NSS	Plunger, Valve
13	NSS	Spring, Plunger Return
14	NSS	Seal, O-ring
15	NSS	Grommet
16	FL-2513	Kit, Repair

NSS = Not Serviced Separately



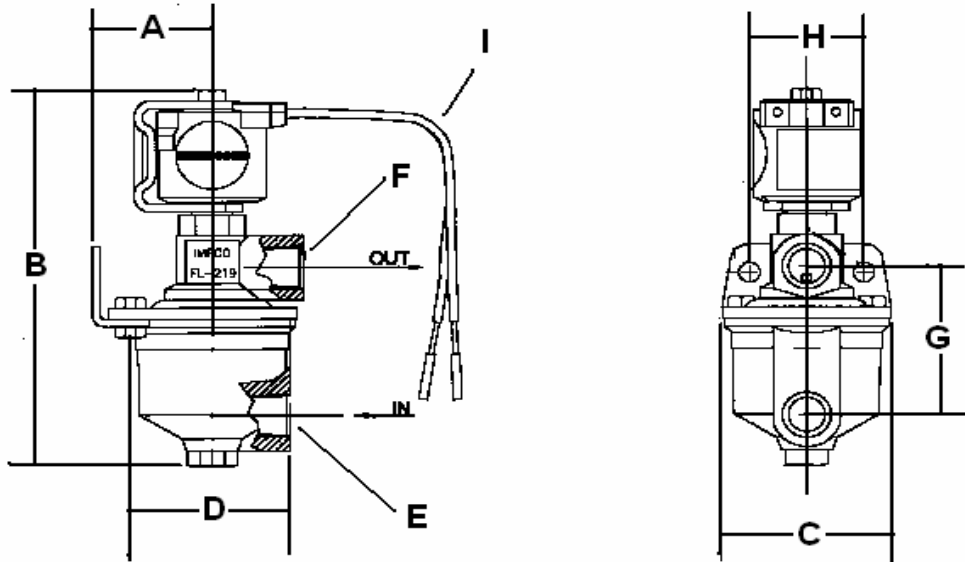
FL-219 SERIES**TECHNICAL DESCRIPTION**

The FL-219 is an electric shutoff solenoid valve with an integral filter. The solenoid is 12 volt operated and is normally closed. The internal replaceable filter allows for in-line filtration and can be used in conjunction with any IMPCO fuel management system. The FL-219 is suitable for LPG and Low pressure CNG fuels.

TECHNICAL SPECIFICATIONS

Fuel Type	LPG and Low Pressure CNG
Pressure (max. working)	1720 kPa (250 psi)
Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Flow Rating	37 L/h @ 9.79 kPa (9.77 gal/h @ 1.42 psi)
Voltage Requirement	12 vdc
Mass	510g (18.0 oz.)
Filter Rating	40 Micron (1.6 mil)
Certification	UL

DIMENSIONS

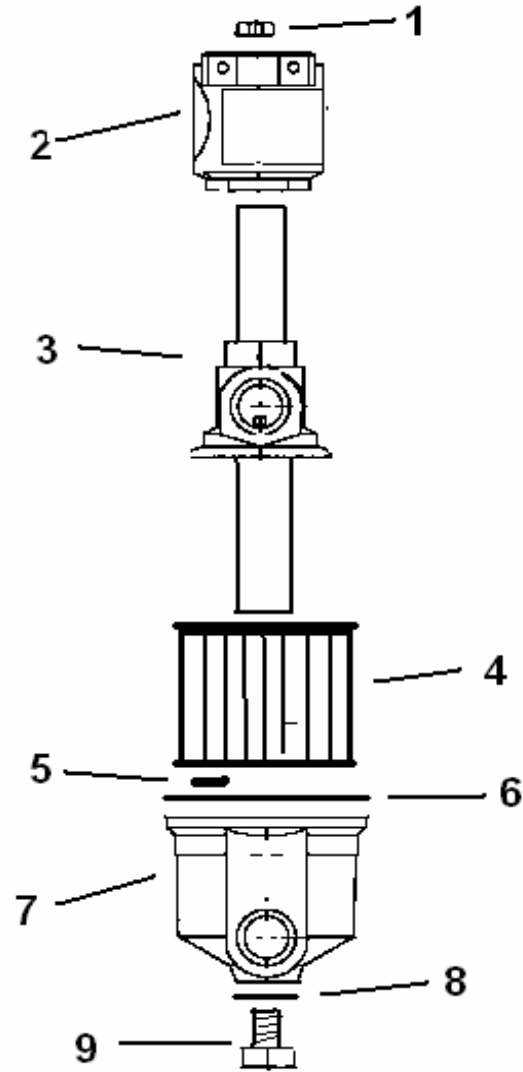


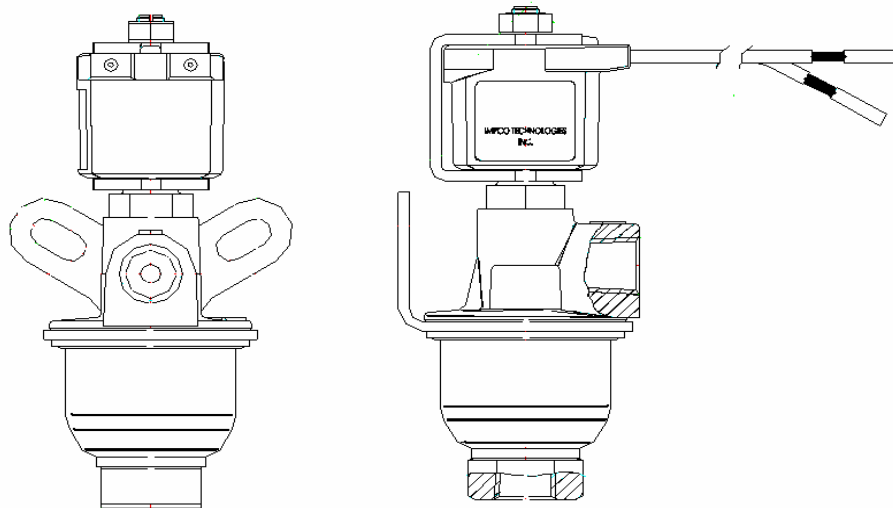
MODEL	A CENTER TO BRACKET	B OVERALL HEIGHT	C VALVE BODY WIDTH	D OVERALL DEPTH	E INLET THREAD TYPE & SIZE (NPT)	F OUTLET THREAD TYPE & SIZE (NPT)	G CTR. TO CTR. INLET & OUTLET	H MNTNG BRACKT HOLE CTR. AND SIZE	I # OF WIRES	J WEIGHT
FL-219	34 mm (1.34")	117 mm (2.80")	55 mm (2.17")	46 mm (1.81")	1/4"-18 (FEMALE)	1/4"- 18 (FEMALE)	47 mm (1.85")	35 mm (1.38") (2) @ 6 mm (0.25")	2	266g (9.4 oz.)

FL-218 SERIES

ITEM #	PART #	DESCRIPTION
1	NSS	Nut, Solenoid retaining
2	NSS	Solenoid
3	NSS	Valve Assembly, Filter
4	F-219	Filter, Microbon
5	NSS	Magnet
6	NSS	Housing, Filter Gasket
7	NSS	Housing, Filter
8	NSS	Housing, Retainer Seal
9	NSS	Housing, Retainer

NSS = Not Serviced Separately



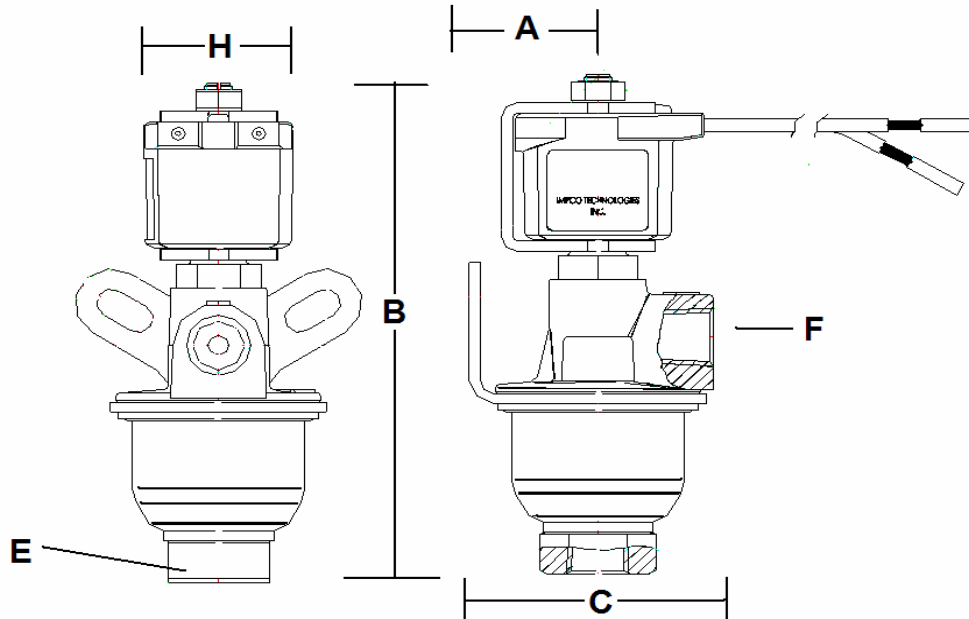
FL-221 SERIES**TECHNICAL DESCRIPTION**

The FL-221 is an electric shutoff solenoid valve with an integral filter. The solenoid is 12 volt operated and is normally closed. The internal, replaceable filter allows for in-line filtration and can be used in conjunction with any IMPCO fuel management system. The FL-221 is suitable for LPG and low pressure CNG fuels.

TECHNICAL SPECIFICATIONS

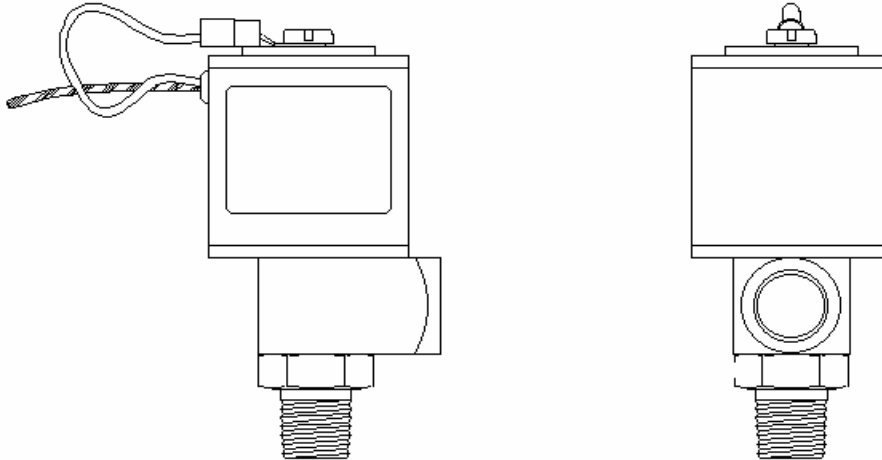
Fuel Type	LPG and Low Pressure CNG
Pressure (max. working)	1720 kPa (250 psi)
Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Flow Rating	37 L/h @ 9.79 kPa (9.77 gal/h @ 1.42 psi)
Voltage Requirement	12 vdc
Mass	510g (18.0 oz.)
Filter Rating	40 Micron (1.6 mil)

DIMENSIONS



	A	B	C	D	E	F	G	H	I	J
MODEL	CENTER TO BRACKET	OVERALL HEIGHT	VALVE BODY WIDTH	OVERALL DEPTH	INLET THREAD TYPE & SIZE (NPT)	OUTLET THREAD TYPE & SIZE (NPT)		MNTNG. BRACKET HOLE CTR. AND SIZE	# OF WIRES	WEIGHT
FL-221	28 mm (1.14")	117 mm (2.80")	47 mm (1.85")	32 mm (1.25")	1/4"-18 (FEMALE)	1/4"-18 (FEMALE)		35 mm (1.38") (2) @ 6 mm (0.25)	2	266g (9.4 oz.)

L-416-12V SERIES



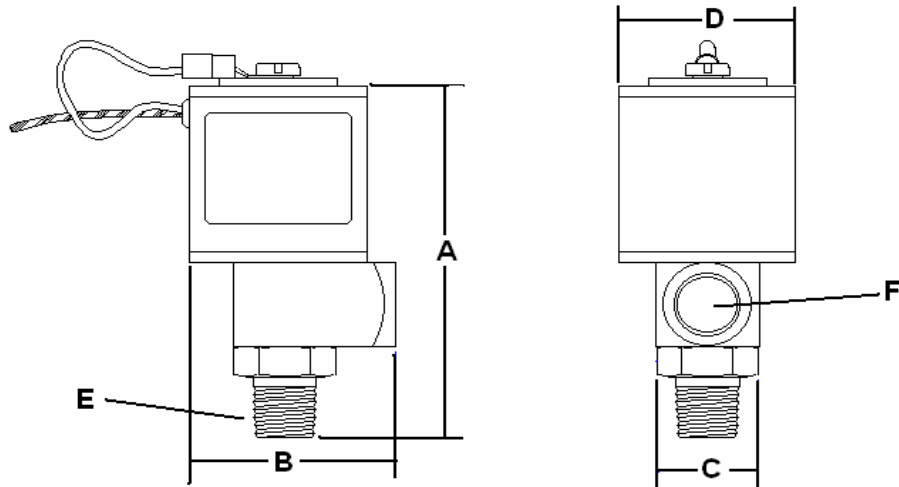
TECHNICAL DESCRIPTION

The L-416 is a normally closed 12 VDC electric solenoid shut off valve suitable for use with LPG or low pressure CNG applications. The L-416 can be used with the IMPCO fuel management systems.

TECHNICAL SPECIFICATIONS

Fuel Type	LPG or Low Pressure CNG
Pressure (max. working)	1720 kPa (250 psi)
Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Voltage Requirement	12 vdc
Mass	340 g (12 oz)
Certification	UL

DIMENSIONS

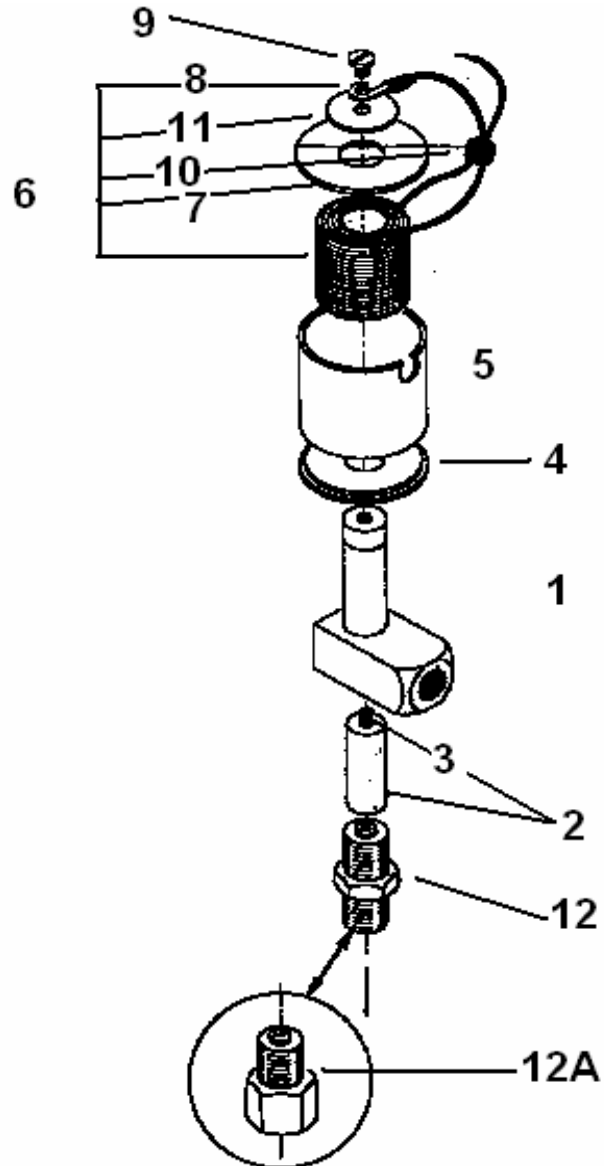


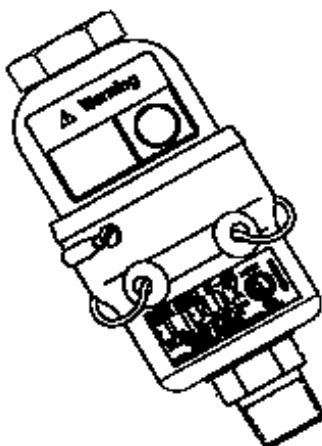
	A	B	C	D	E	F	G	H
MODEL	OVERALL HEIGHT	OVERALL WIDTH	NUT WIDTH	SOLND. DIA.	INLET THREAD TYPE	OUTLET THREAD TYPE	# OF WIRES	WEIGHT
L-416-12V	80.5 mm (3.17")	44.4 mm (1.75")	22 mm (.87")	38.1 mm (1.50")	1/4"-18 (MALE)	1/4"-18 (FEMALE)	1	340g (12 oz.)

L-416-12V SERIES

ITEM #	PART #	DESCRIPTION
1	NSS	Body, Solenoid Valve
2	L-4112A	Plunger, Valve w/spring
3	NSS	Spring, Plunger Return
4	NSS	Washer
5	NSS	Housing, Coil
6	NSS	Coil, 12v Red Leads
7	NSS	Washer
8	NSS	Terminal, Solderless, # 10
9	S1-40	Screw
10	NSS	Grommet
11	NSS	Washer
12	NSS	Orifice

NSS = Not Serviced Separately



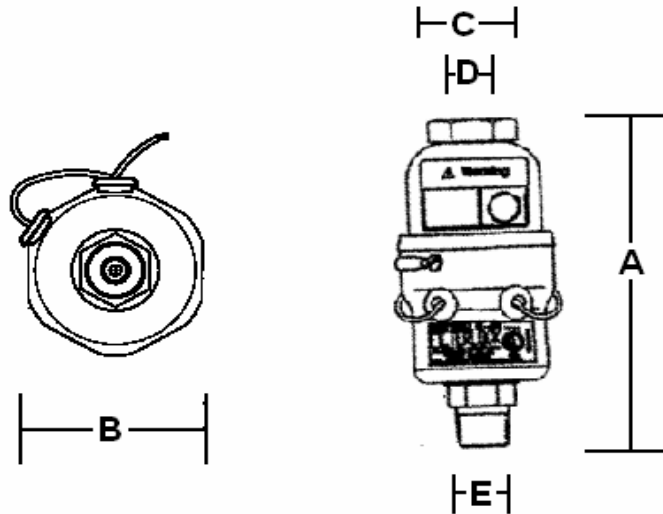
FL-418-12V SERIES**TECHNICAL DESCRIPTION**

The FL-418-12V heavy-duty electric shutoff solenoid valve with an integral filter. The solenoid is 12 volt operated and is normally closed. The internal replaceable filter allow for in-line filtration and can be used in conjunction with any IMPCO fuel management system.

TECHNICAL SPECIFICATIONS

Fuel Type	LPG or Low Pressure CNG
Pressure (max. working)	2150 kPa (312 psi)
Operating Temperature	-40°C to 135°C (-40°F to 275°F)
Voltage Requirement	12 vdc
Filter Rating	40.0 Micron (1.6 mil)
Mass	624 g (22 oz.)
Certification	UL & ULC

DIMENSIONS

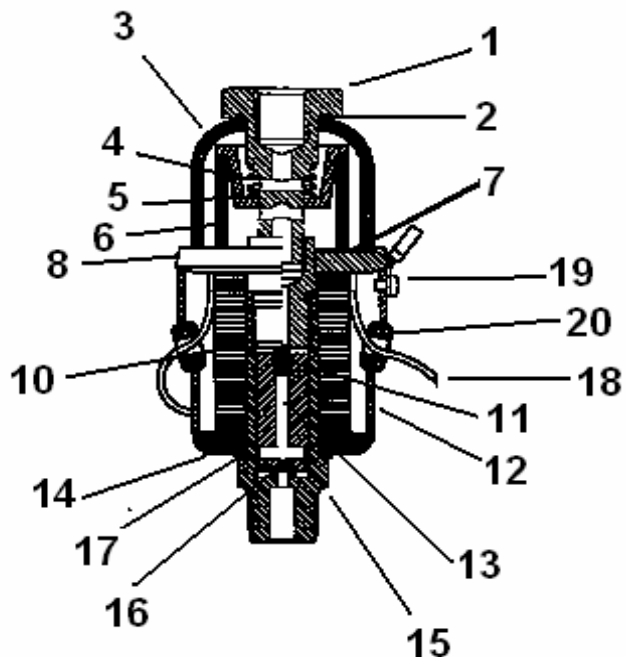


	A	B	C	D	E	F	G
MODEL	OVERALL HEIGHT	OVERALL WIDTH	NUT WIDTH	INLET THREAD TYPE	OUTLET THREAD TYPE	# OF WIRES	WEIGHT
FL-418-12V	116 mm (4.56")	48 mm (1.88")	25 mm (1.0")	1/4"-18 NPT (MALE)	1/4"- 18 NPT (FEMALE)	1	340g (12 oz.)

L-416-12V SERIES

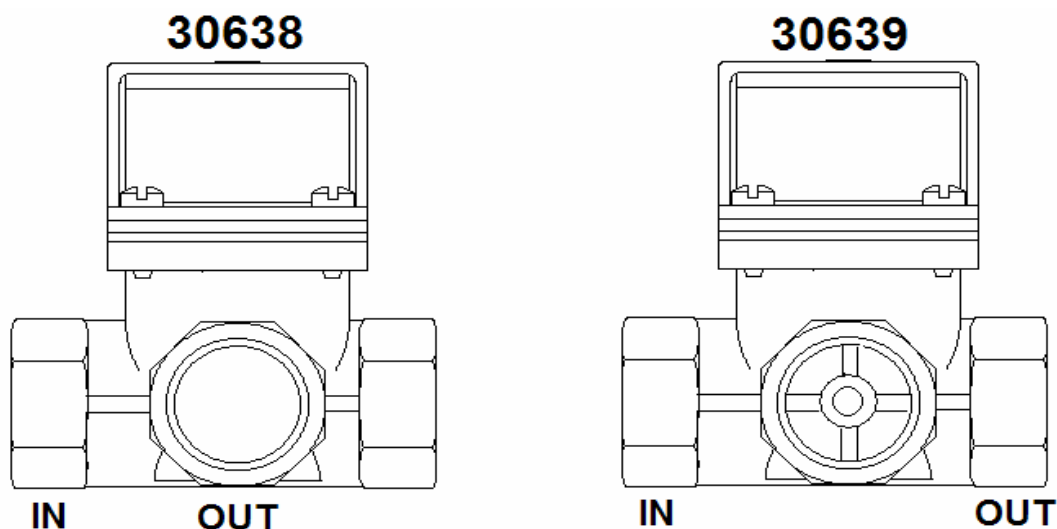
ITEM #	PART #	DESCRIPTION
1	NSS	Bolt Filter
2	NSS	Seal O-ring
3	NSS	Cup Filter Retainer
4	NSS	Washer
5	FL-4735	Filter, Microbon
6	NSS	Bowl Filter
7	NSS	Gasket, Filter Bowl
8	NSS	Plate, Filter lock Center
9	NSS	Seal O-ring
10	NSS	Coil 12 Volt
11	NSS	Spring, Plunger Return
12	NSS	Housing Coil
13	NSS	Plunger Valve
14	NSS	Plate Outlet End
15	NSS	Body Valve
16	NSS	Seal Filter Element
17	NSS	Washer Marcel
18	NSS	Terminal Solderless
19	NSS	Screw Machine
20	NSS	Grommet

NSS = Not Serviced Separately



FILTER KIT

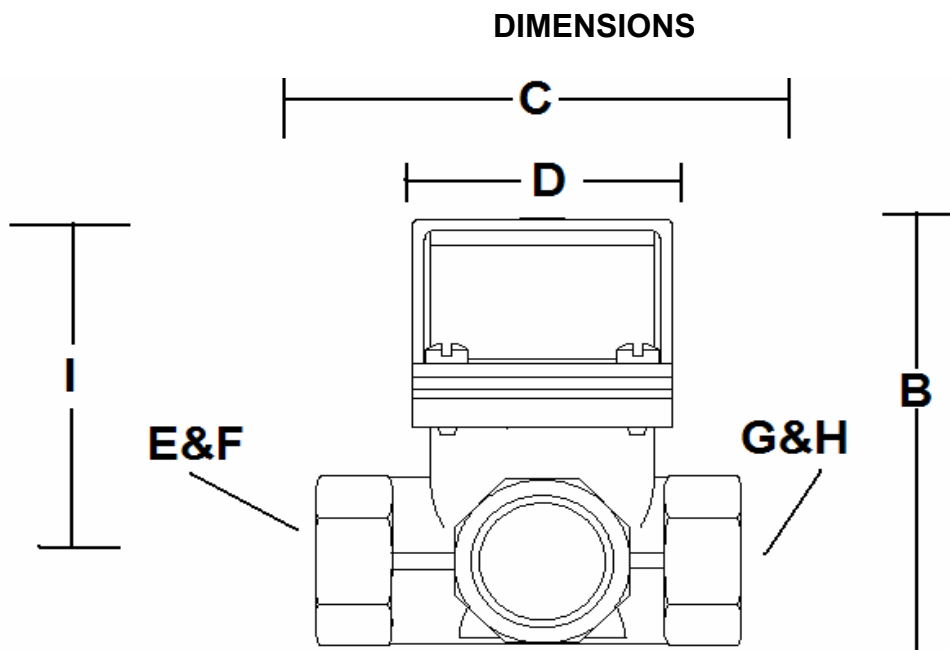
PART #	DESCRIPTION
FL-4748	Kit Filter element & gasket

FL-306XX SERIES**TECHNICAL DESCRIPTION**

The FL-306XX series of lockoffs is a normally closed 12 vdc electric solenoid shut off valve, suitable for use in low pressure, dry gas fuel applications. The FL-306XX is light weight and can be easily mounted directly to a low pressure regulator or remotely mounted utilizing the single mounting boss. The FL-30638 is designed for applications requiring 90° flow direction and the FL-30639 is designed for applications requiring straight through flow.

TECHNICAL SPECIFICATIONS

Fuel Type	Low Pressure LPG or Natural Gas
Pressure (max. working)	3.4 kPa (.5 psig)
Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Voltage Requirement	12 vdc, (0.14 a)
Mass	0.521kg (18.4oz)



	A	B	C	D	E	F	G	H	I	J	K
MODEL	FLOW DIRECTION	OVERALL HEIGHT	VALVE BODY LENGTH	SOLND. DIA.	INLET THREAD TYPE	INLET THREAD SIZE (NPT)	OUTLET THREAD TYPE	OUTLET THREAD SIZE (NPT)	CTR. OF VALVE TO TOP OF SOLND.	# OF WIRE	WEIGHT
FL-30638	90°	72.2 mm (2.845")	65.1 mm (2.565")	44.4 mm (1.75")	(FEMALE)	1/2"	(FEMALE)	1/2"	56.1 mm (2.210")	2	0.521 kg (18.4 oz.)
FL-30639	Straight	72.2 mm (2.845")	65.1 mm (2.565")	44.4 mm (1.75")	(FEMALE)	1/2"	(FEMALE)	1/2"	56.1 mm (2.210")	2	0.521 kg (18.4 oz.)



MASTER CATALOG
INTRODUCTION

ACCESSORIES



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ACCESSORIES**REPAIR KITS**

PART #	DESCRIPTION
1501-26	Kit, revision or repair 1501
1501-RK	Repair kit for 1501L
120A-RBK	Kit, Rebuilding
120A-RCK	Kit, complete rebuilding
120A-RK	Kit, Repair
50ERK	Kit, Repair Model 50
52B-RBK	Kit, Repair Model 52
T202-RBK	Rebuild kit, 202
T202-RK	Repair kit, 202
T60-RBK	Rebuild Kit, Minor T60
T60-RCK	Rebuild Kit, Major T60
T60-RK	Repair kit, T60

BRACKETS

PART #	DESCRIPTION
520-02	Universal Brackets
AP-1507	Bracket, Mounting Ass'y

FILTERS

PART #	DESCRIPTION
F-201	Filter Ass'y In line LP Gas
20B13	Filter, Flat Mount

SAFETY SWITCH

PART #	DESCRIPTION
1501-L	Switch, Ass'y Microvac Safety
1501-PA	Vacuum Switch kit, w/ wires and terminals
1501-28A	Micro switch, w/ match spring

KITS

PART #	DESCRIPTION
2K-591E	Kit w/ hose and fitting

FITTINGS

PART #	DESCRIPTION
401-04	Fitting, 1/4 NPT 3/8" Hose 90° Elbow Brass
181-09	Idle Fitting

INDEX

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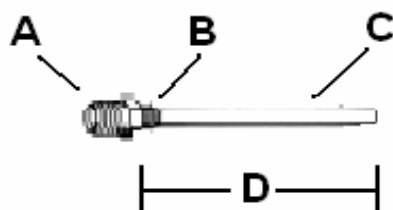
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FUEL METERING



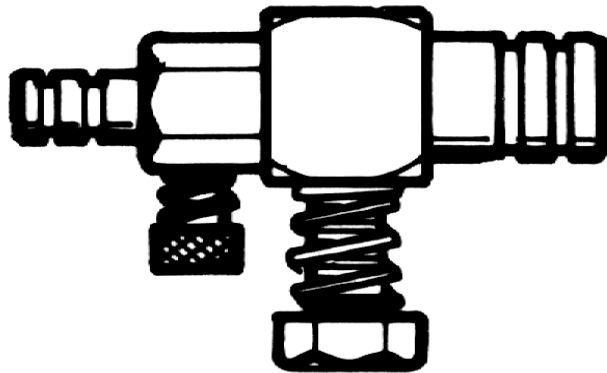
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100 SERIES FUEL TUBES



	A	B	C	D
PART #	CONNECTOR THREAD	ATTACHING THREAD	TUBE DIAMETER	TUBE LENGTH
100-29	1/4"	1/8 NPT	7/16"	2.03"
100-30	1/4"	1/8 NPT	7/16"	1.75"

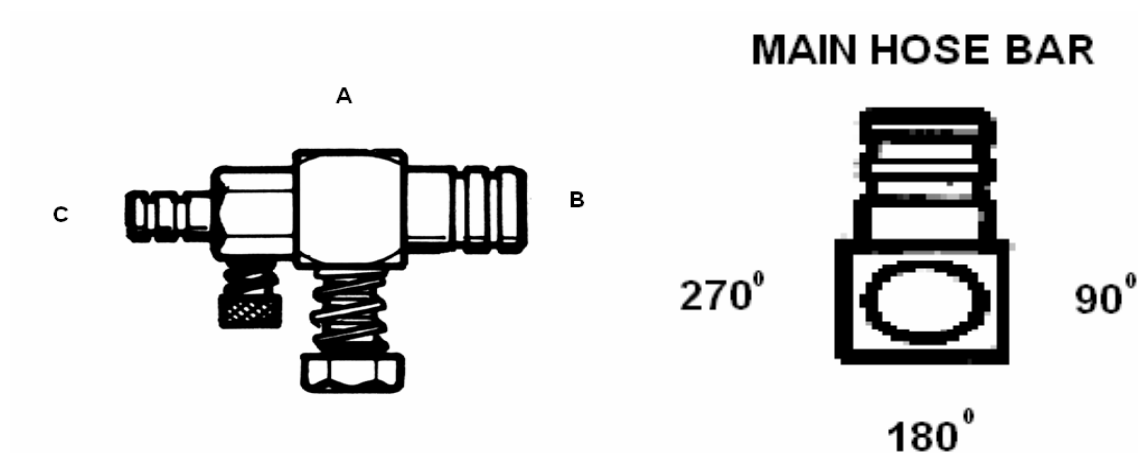
130 SERIES LOAD BLOCKS



TECHNICAL DESCRIPTION

There are many styles of load blocks (with and without idle systems), to match your needs, when using fuel tubes or carburetor adapters that require a separate load block. These load blocks offer you great versatility, as they can be mounted in any direction either at the carburetor or on the fuel controller.

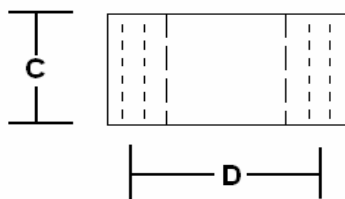
DIMENSIONS



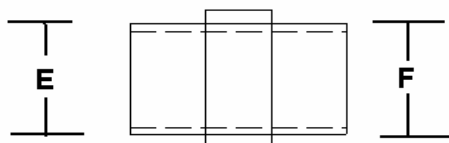
	A	B	C	
ITEM #	THREAD SIZE	TUBE SIZE	TUBE SIZE	POSITION IDLE
130-00-23	1/8 NPT	3/8"	N/A	N/A
130-06	1/8 NPT	3/8"	N/A	N/A
130-07	1/8 NPT	3/8"	1/4"	90°
133-03	1/4 NPT	3/8"	1/4"	180°
133-08	1/4 NPT	1/2"	1/4"	90°
133-17	1/4 NPT	3/8"	1/4"	90°

201 & 204 SERIES ADAPTERS

A. = CARBURETOR ADAPTER TYPE

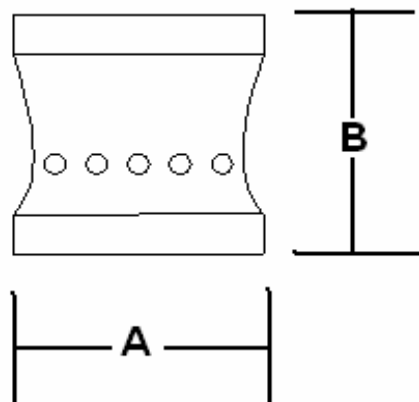


B. = AIR HORN ADAPTER TYPE



		A	B	C	D	E	F	G
ITEM #	DESCRIPTION	FLANGE TYPE	ADAPTER TYPE	ADAPTER HEIGHT	FLANGE B.C.	INLET O.D.	OUTLET O.D.	FUEL INLET NPT
200-1330	Hose adapter, 2" OD x .375"		B			50.8 mm (2.0")	50.8 mm (2.0")	
201-1130	Carb. adapter Air Horn, 1.949" x 1.50" x 3/4 NPT		B			49.5 mm (1.949")	38.1 mm (1.50")	0.75"
204-27	Flange mounting (2), 1.375" X 1.12" 1/4 NPT	A			34.9 mm (1.375")			0.25"
204-36	Air cleaner mounting, 2.562" X 1.812", 1/4 NPT		B			65 mm (2.562")	46 mm (1.812")	0.25"
204-44	Zinc torx, set screw, 10-32 x 1/4"							
204-58	Flange mounting, 1.375" x 1.13", 1/4 NPT	A			34.9 mm (1.375")			0.25"
204-67	Air cleaner mounting, 1.375" x 1.737", 1/4 NPT, 1.58		B			40.1 mm (1.58")	40.1 mm (1.58")	0.25"
204-81	18 HP & 20 HP, Honda Gx610 and GCX620		B					
204-82	1-1/2 Flange mounting, 1.375" x 1.13", 1/4 NPT	A	1.375"	1.031"	38.1 mm (1.5")	34.9 mm (1.375")		0.25"

222 SERIES VENTURI



	A	B	C	D
PART #	OUTSIDE DIA.	OVERALL HEIGHT	VENTURI	MATERIAL
222-00-10	34.9 mm (1.375")	25.4 mm (1.)	10	Aluminum
222-00-14	34.9 mm (1.375")	25.4 mm (1.)	14	Aluminum



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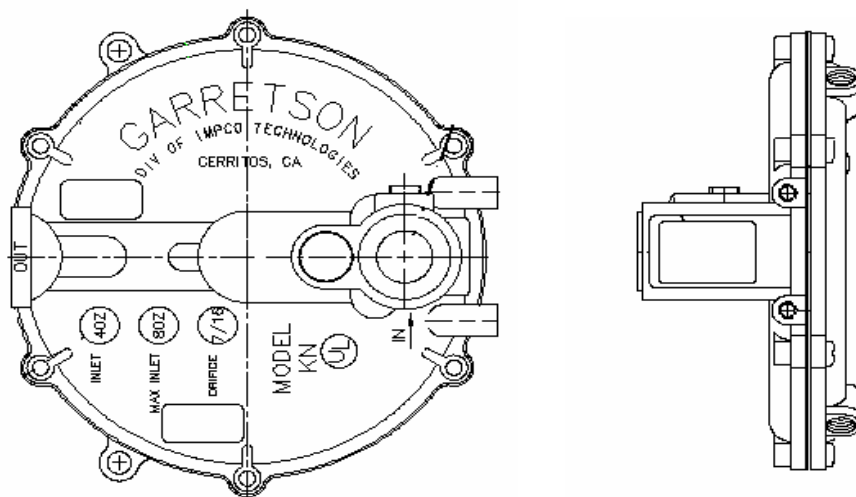
REGULATORS



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MODEL KN REGULATOR

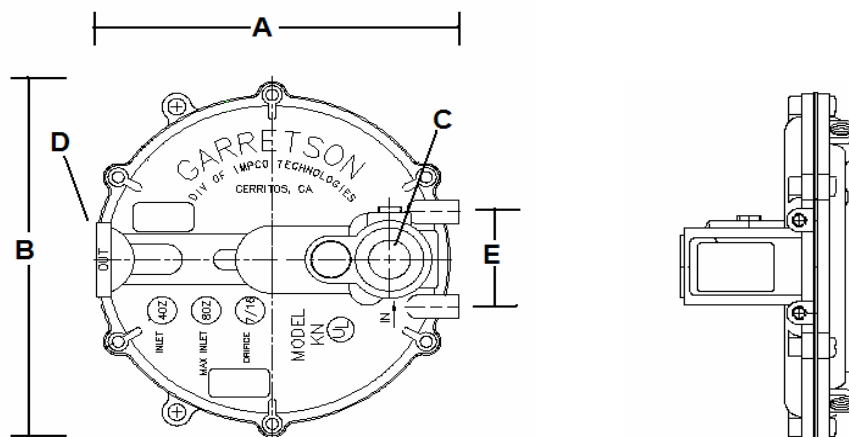


TECHNICAL DESCRIPTION

The Garretson Model KN is a secondary regulator designed for sensitivity and simple operation. It is used with low pressure vaporized gaseous fuels.

TECHNICAL SPECIFICATIONS

Fuel type	LPG or Natural Gas
Capacity	
LPG	30 kw (40 hp)
Natural Gas	19 kw (25 hp)
Maximum Inlet	3.45 kPa (13.85 in H ₂ O)
Temperature	-40°C to 120°C (-40°F - 250°F)
Mounting	Vertical
Weight	790g (28 oz)

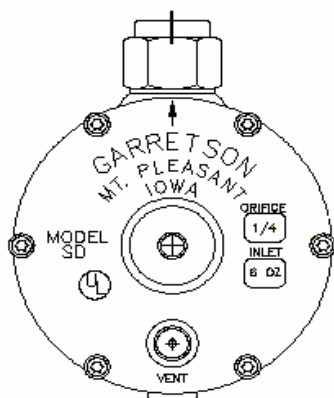
DIMENSIONS


	A	B		C	D	E	G	H	J	K
	OVERALL HEIGHT	OVERALL WIDTH	OVERALL DEPTH	INLET NPT	OUTLET NPT	MOUNT HOLES (QTY), SIZE, SPACING	MAX. INLET PRESSURE	PRIMER	TAMPER RESIST.	ORIFICE
039-0004	150 mm (6.18")	165 mm (6.0")	78 mm (3.06")	19.5 mm (3/4"npt)	9.5 mm (3/8" npt)	(2) 1/2" 20 UNC 44.5 mm (1.75")	8 oz	NO	YES	11.1 mm (7/16")
039-11	150 mm (6.18")	165 mm (6.0")	78 mm (3.06")	19.5 mm (3/4"npt)	9.5 mm (3/8" npt)	(2) 1/2" 20 UNC 44.5 mm (1.75")	8 oz	NO	NO	11.1 mm (7/16")
039-112	150 mm (6.18")	165 mm (6.0")	78 mm (3.06")	19.5 mm (3/4"npt)	9.5 mm (3/8" npt)	(2) 1/2" 20 UNC 44.5 mm (1.75")	8 oz	MANUAL	NO	11.1 mm (7/16")
039-12	150 mm (6.18")	165 mm (6.0")	78 mm (3.06")	19.5 mm (3/4"npt)	9.5 mm (3/8" npt)	(2) 1/2" 20 UNC 44.5 mm (1.75")	8 oz	NO	NO	11.1 mm (7/16")
039-121	150 mm (6.18")	165 mm (6.0")	78 mm (3.06")	19.5 mm (3/4"npt)	9.5 mm (3/8" npt)	(2) 1/2" 20 UNC 44.5 mm (1.75")	8 oz	AUTO	NO	11.1 mm (7/16")
039-121	150 mm (6.18")	165 mm (6.0")	78 mm (3.06")	19.5 mm (3/4"npt)	9.5 mm (3/8" npt)	(2) 1/2" 20 UNC 44.5 mm (1.75")	8 oz	MANUAL	NO	11.1 mm (7/16")
039-31173								NO	YES	12.7 mm (.50")

MODEL KN REGULATOR CARBURETOR**ACCESSORIES**

PART #	DESCRIPTION
039-00-12	Spring, 4oz KN
039-00-41	Pin, Primer Mod KN
039-00-42	Spring, Primer .38" O.D. .19" I.D. .02"
039-99	Repair Kit, KN

MODEL SD STANDARD CARBURETOR



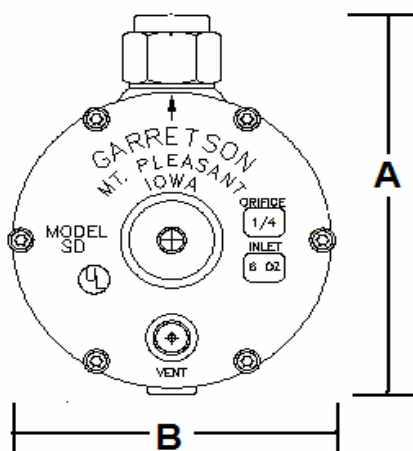
TECHNICAL DESCRIPTION

The Garretson Model SD is a secondary regulator designed, for use with low pressure vaporized gaseous fuels. The molded silicone-rubber diaphragm and square-seating molded plunger, contribute to the unit's long trouble-free service.

TECHNICAL SPECIFICATIONS

Fuel Type	Propane or Natural Gas
Capacity	
073-321	Propane 13kw (18 hp)
	Natural Gas 7kw (10 hp)
Pressure (max. inlet)	2600 kPa (10.5 in H ₂ O)
Weight	790g (28.0 oz)

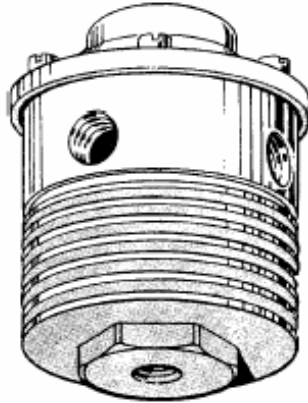
DIMENSIONS



		A	B	C	D	E	F	G	H
	APPL.	OVERALL HEIGHT	OVERALL WIDTH	OVERALL DEPTH	WEIGHT	NPT FUEL INLET	NPT FUEL OUTLET	NPT TEST PORT	ORIFICE 073-31x
073-0002	Std. Onan Regulator	150 mm (6.5")	165 mm (6.0")	78 mm (3.06")	790 g (28 oz)	1/4"	1/4" (FEMALE)	1/8"	
073-321	Standard SD Regulator Assy	150 mm (6.5")	165 mm (6.0")	78 mm (3.06")	790 g (28 oz)	1/4"	1/4" (FEMALE)	1/8"	6.4 mm (.25")
980-27-01	Standard SD Regulator	150 mm (6.5")	165 mm (6.0")	78 mm (3.06")	790 g (28 oz)	1/4"	1/4" (FEMALE)	1/8"	6.4 mm (.25")

ACCESSORIES

PART #	DESCRIPTION
073-00-62	Bonnet, Assembly SD Auto Prime

MODEL 11A17 STANDARD REGULATOR**TECHNICAL DESCRIPTION**

The 11A17 series vaporizers are easy and economical to install and service. The 11A17 is a non-adjustable air heated or water heated, positive pressure vaporizer. It is compatible with either liquid or vapor fuel.

TECHNICAL SPECIFICATIONS

Fuel Type	Propane
Pressure (max. inlet)	1827 kPa (265 psi)
Outlet Pressure	82.7 kPa (12 psi)
Weight	790g (28.0 oz)

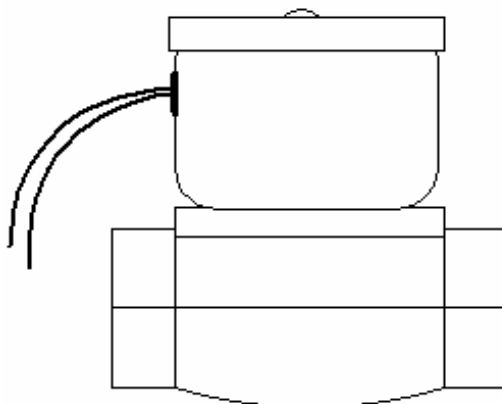


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LOCKOFFS



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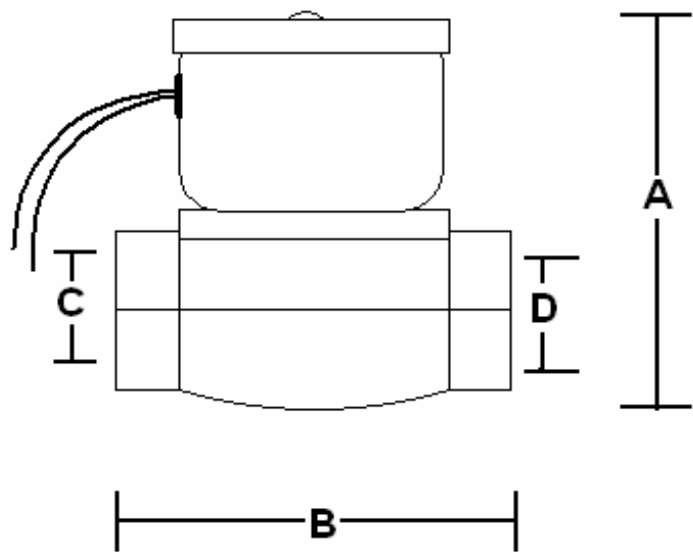
330 SERIES LOCK OFF**TECHNICAL DESCRIPTION**

The Garretson 330-05 is a large capacity 12 vdc normally closed, electric shut off. It can be used in conjunction with any of the IMPCO fuel management systems.

TECHNICAL SPECIFICATIONS

Fuel Type LPG or Low pressure Natural Gas
Capacity 110 kw (150 hp)
Pressure (max inlet) 3.4 kPa (.5 psi)
Electrical Requirement 12 vdc
Temperature Range -40°C to 80°C (-40°F to 180°F)
Weight 617g (21.8 oz.)

DIMENSIONS



	A	B	C	D	E	F
	OVERALL HEIGHT	OVERALL LENGTH	OVERALL DEPTH	NPT FUEL INLET	NPT FUEL OUTLET	ORIFICE WEIGHT
330-05	91.7 mm (3.61")	88.9 mm (3.50")	61 mm (2.40")	3/4" (FEMALE)	3/4" (FEMALE)	19.05 mm (.75") 617g (21.8 oz.)



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ACCESSORIES**RK SERIES REPAIR KITS**

PART #	DESCRIPTION
039-99	Repair Kit, Model KN
073-99	Repair Kit, Model SD
074-99	Repair Kit, Model S2
083-99	Repair Kit, Model 083

FITTINGS

PART #	DESCRIPTION
181-09	Fitting, Idle

SERVICE KIT

PART #	DESCRIPTION
074-00-15	Kit, Inlet Service Part Ass'y
HK-25580	Conversion kit, Carburetor adapter

SPRINGS

PART #	DESCRIPTION
039-00-12	Spring, 4 oz. Model KN
074-00-07	Spring, 75 O.D. (063") 1.1" 6.6"
074-00-37	Spring

ADJUSTING SCREWS

PART #	DESCRIPTION
020-00-14	Adjusting Screw Assembly, Long

BONNET ASSEMBLY AUTO PRIME SD

PART #	DESCRIPTION
073-0062	Bonnet Ass'y, SD Auto Prime
074-0070	Bonnet Ass'y, Auto Prime

GASKET AND SEALS

PART #	DESCRIPTION
074-00-23	Gasket, Inlet Fitting
074-00-28	Tetraseal

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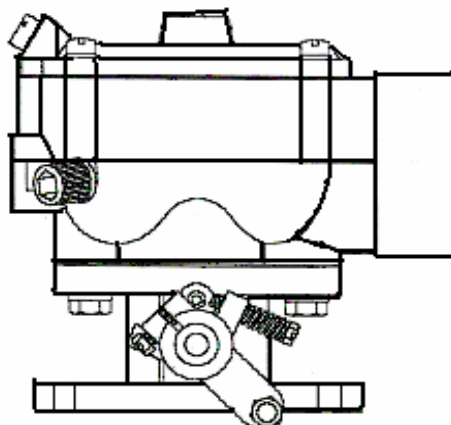


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FUEL METERING



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MODEL 60 SERIES STANDARD CARBURETOR**TECHNICAL DESCRIPTION**

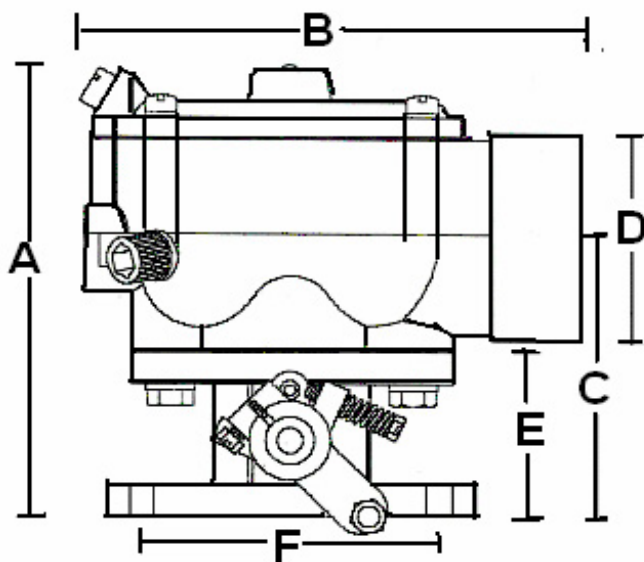
The ALGAS Model FT-60 mixer is a single diaphragm air gas valve carburetor/mixer. It offers a 90 degree air inlet to provide low overhead clearance. This mixer is available for propane application. The mixer is equipped with ports for both balance line and venturi vacuum.

TECHNICAL SPECIFICATIONS

Fuel Type Propane
Air Flow capacity 93L/s (197 CFM) @ 2.0 in HG manifold depression
Horse Power Rating 97 kW (123 hp) @ 2.0 in HG manifold depression
Fuel Inlet 1/2 NPT

Materials

Body Aluminum
Diaphragm Hydrin
Diaphragm Cover Aluminum

DIMENSIONS


	A	B	C	D	E	F	G
	OVERALL HEIGHT	OVERALL WIDTH	HEIGHT FLANGE TO CENTER OF AIR HORN	AIR HORN DIAMETER	THROTTLE BODY HEIGHT	CENTER TO CENTER BOLT HOLES	FUEL INLET NPT
1-0012	112.7 mm (4.4375")	120. mm (4.75")		52.3 mm (2.0625")		66.6 mm (2.625")	1/2"
60-42	112.7 mm (4.4375")	120. mm (4.75")		47.6 mm (1.875")		66.6 mm (2.625")	1/2"
FT-60M-1				38.1 mm (1.5")			
FT-60M-3				52.3 mm (2.0625")			
FT-60M-3-3							
5710				52.3 mm (2.0625")			1/2"



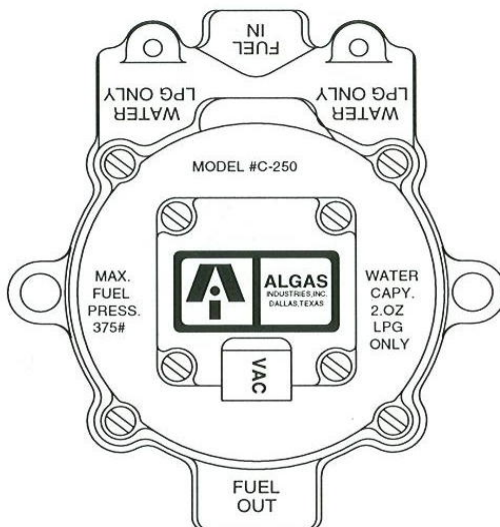
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REGULATORS



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MODEL C250A STANDARD REGULATOR



TECHNICAL DESCRIPTION

The ALGAS C250A series regulator is a 2 stage, pressure reduction regulator. The regulator can be used as a water heated regulator or equipped with an air heated element, to be used with air cooled engine applications. The C250A can be mounted utilizing the two mounting holes.

TECHNICAL SPECIFICATIONS

Fuel Type Propane

Capacity

C250A 85 kw (115 hp)

C250AH 52 kw (70 hp)

C250AH-4 48 kw (65 hp)

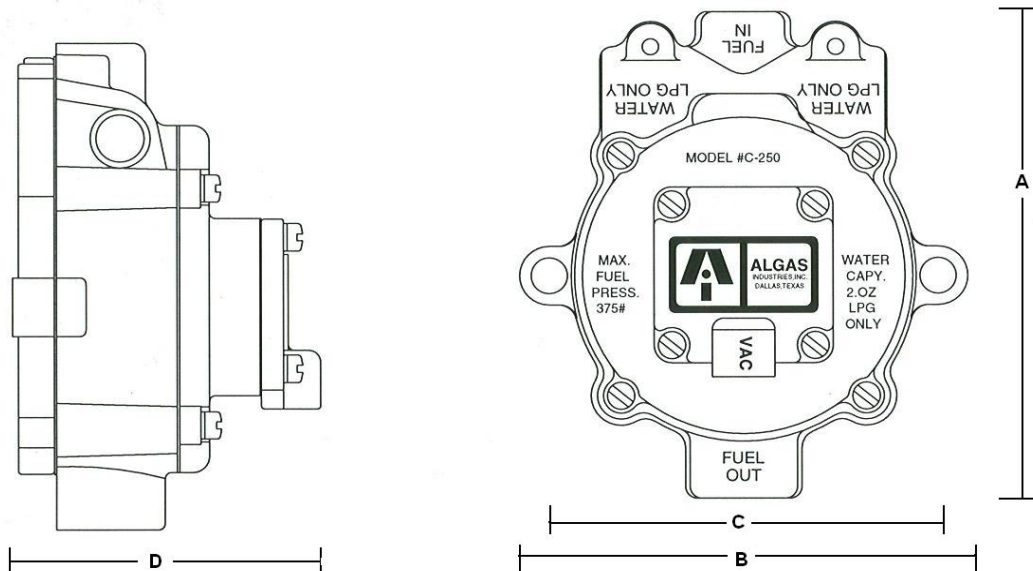
Max. Pressure 2150 kPa (312 psig)

C250A 2150 kPa (312 psig)

C250AH Air

C250AH-4 Air

DIMENSIONS



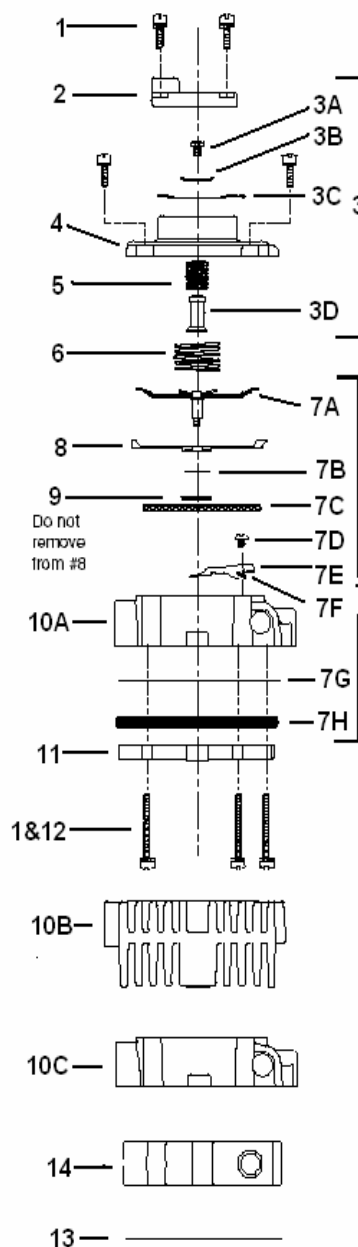
	A	B	C	D	E	F	G	H	I
	OVERALL HEIGHT	OVERALL WIDTH	OVERALL DEPTH	FUEL INLET NPT	FUEL OUTLET NPT	VACUUM PORT NPT	WATER INLET AND OUTLET NPT	MOUNTNG HOLE WIDTH	MOUNTNG HOLE SIZE
C250A	131.7 mm (5.1875")	119.5 mm (4.6875")	382.5 mm (3.25")	3/8"	1/2"	1/4"	3/8"	103 mm (4.0625)	1/4 "
C250A-1	131.7 mm (5.1875")	119.5 mm (4.6875")	382.5 mm (3.25")	3/8"	1/2"	1/4"	3/8"	103 mm (4.0625)	1/4 "
C250AH				3/8"	1/2"	1/4"	3/8"		1/4 "
C250AH-4				3/8"	1/2"	1/4"	3/8"		1/4 "

	J	K	L	M
	OPERATING PRESSURE WITH POWER RAM VACUUM	OPERATING PRESSURE WITHOUT POWER RAM VACUUM	REGULATOR SPRING	POWER RAM SPRING
C250A	1.25	1.5	Siver	Red
C250A-1	1.25	1.5	Siver	Red
C250AH	1.25	1.5	Siver	Red
C250AH-4	0.75	1.25	Red	Silver

MODEL C250A REGULATORS

ITEM #	PART #	DESCRIPTION
1	NSS	10-24 x 5/8" screw, C250A-3, -4, AH
	NSS	10-24 x 5/8" screw, C250A-1, -2, -8, -9
2	NSS	Power-ram cover
3	2210	Power-ram repair kit
3A	NSS	8-32 x 1/4" screw
3B	NSS	Power-ram diaphragm plate
3C	NSS	Power-ram diaphragm
3D	NSS	Power-ram pin
4	2250	Regulator cover
5	2233	Power-ram spring (red), for C250A-1
	NSS	Power-ram spring (silver) for C250A-2
6	NSS	Regulator spring (silver) for C250A-9
	NSS	Regulator spring (red), for C250A-1, -2, -8
7	1-7010A	Regulator repair kit
7A	NSS	Regulator diaphragm assembly
7B	NSS	Liquid seal washer
7C	2247	Sponge
7D	NSS	8-32 x 1/4" truss head screw
7E	A2241	Regulator lever
7F	NSS	Lever pin
7G	NSS	Backplate gasket
7H	2252	Freeze pad
8	NSS	Liquid seal plate
9	NSS	Liquid seal washer retainer
10A	NSS	Converter body, C250A-3, -4
10B	NSS	Converter body, C250A, A-1, -2, -8, -9
10C	NSS	Converter body, C250AH, AH-4
11	NSS	Backplate
12	NSS	10-24 x 1-3/4" screw
13	NSS	Backplate gasket, C250A-3, -4
14	NSS	Water chamber body, C250A-3, -4

NSS = Not Serviced Separately



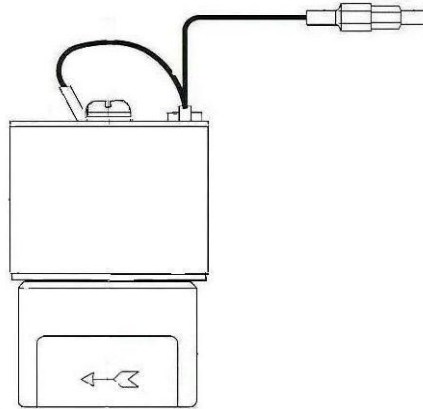


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LOCKOFFS



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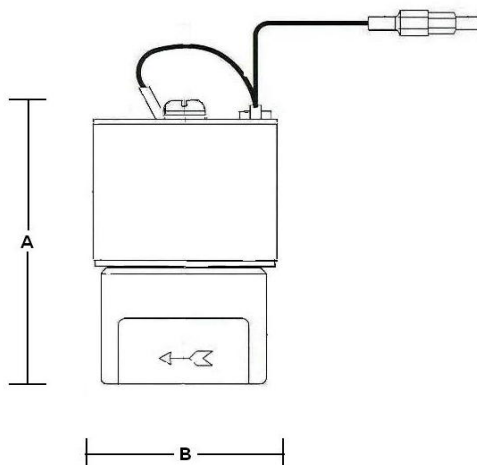
EFL1 SERIES LOCKOFFS**TECHNICAL DESCRIPTION**

The ALGAS Model EFL1 electric fuel lockoff is a 12 volt normally-closed, solenoid operated, electric fuel lockoff. It features a straight through flow path and single wire lead. The EFL1 can be mounted using the two 1/4" x 20 mounting holes located in the bottom of the lockoff.

TECHNICAL SPECIFICATIONS

Fuel Type	Propane and gasoline
Capacity	242 kW (325 hp)
Pressure (max. inlet)	2150 kPa (312 psig)
Electrical Voltage	12 VDC
Power Requirement	12 W max.
Temperature Ambient	60° C (140° F)
Temperature Fluid	25° C (77° F)

DIMENSIONS

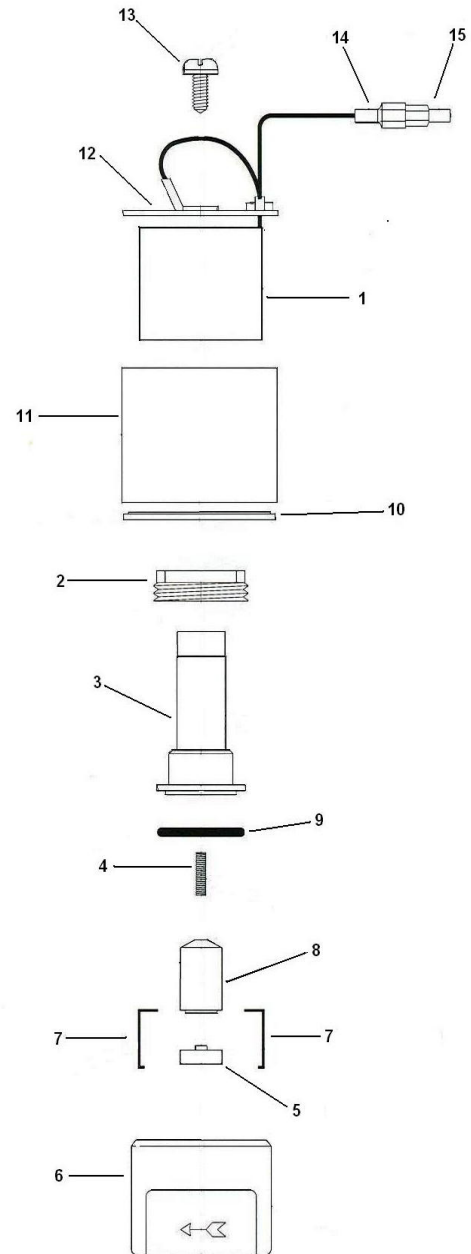


	A	B	C	D	E	F	G
	OVERALL HEIGHT	OVERALL WIDTH	WEIGHT	FUEL INLET NPT	FUEL OUTLET NPT	ORFICE	# WIRE LEAD
EFL1	66.7 mm (2.63")	38.1 mm (1.50")	300 g (10.6 oz.)	1/4"	1/4"	0.25"	1

EFL1 SERIES LOCKOFF

ITEM #	PART #	DESCRIPTION
1	NSS	Coil
2	NSS	Locknut
3	NSS	Tube assembly
4	NSS	Spring
5	NSS	Disc cup assembly
6	NSS	Body
7	NSS	Pilot clip
8	NSS	Core assembly
9	NSS	O-ring
10	NSS	Lower coil plate
11	NSS	Coil cover
12	NSS	Filterlock, 12 volt plate
13	NSS	8-32 thread
14	NSS	Male spade connector
15	NSS	Female spade connector
16	NSS	U.L. Label (N/S)

NSS = Not Serviced Separately





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ACCESSORIES**RK SERIES REPAIR KITS**

PART #	DESCRIPTION
2210	Repair Kit, C250 Power Ram
1-7010A	Repair Kit, C250 Series
1-7011	Repair Kit, C250A-2, 4, H-4
1-7012	Repair Kit, C250A,3,9,H
SA2330-2	Repair Kit, Diaphragm Service Assembly
SA2553-2	Repair Kit, Diaphragm Service Assembly
A2228	Diaphragm Ass'y, Vacuum Switch M60
2149-1	Repair Kit, F/M500LPG Mixer US

O2-SENSOR

PART #	DESCRIPTION
FL-2029	O2 Sensor w/ Female Connector, Sm # Sg 22

FILTER

PART #	DESCRIPTION
F-380	Filter, Standard

FILTER KIT

PART #	DESCRIPTION
701	Filter Kit, Flf1, Ef5, Bff2

LED ASSEMBLY.

PART #	DESCRIPTION
SS-C85-766	LED Ass'y, Red (3/Pcs) #Sp941129-R

THROTTLE BODY GASKET

PART #	DESCRIPTION
416	Gasket, Flange 1-1/4" SAE, M60 throttle body