

- •Carburetor Exploded Views
- •Calibrated Parts Listing
- •Air Filters, Elements and Hardware



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WEBER

#### WEBER CARBURETOR BUYING GUIDE DGV, DFV SERIES

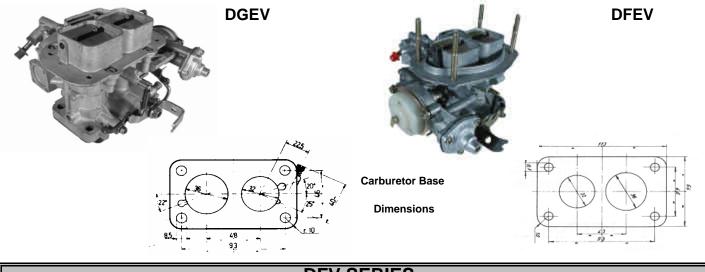
#### **DGV SERIES**

Any search for the ideal 2-barrel, progressive, down-draft carburetor would surely end with the **DGV** Series. Look no further for versatility, wide adaptability, easy installation, low initial cost, trouble-free maintenance, excellent driveability, increased fuel economy and improved performance. Designed for engines displacing 1200cc - 2300cc, the **DGV** Series carbs feature diaphragm type accelerator pump circuits and models with manual, water or electric choke actuation. The **DGV** also has a power valve circuit to facilitate low vacuum running conditions.

Where the tendency for engines to diesel or "run-on" exists, we recommend the use of our **DGV** Series carburetors with integral idle cut-off units. These ICU carburetors inhibit the tendency to diesel by positively shutting off the supply of fuel to the idle circuit when the engine is switched off. This situation is particularly prevalent with later model engines.

Greater improvements in throttle response at a slight penalty in fuel economy can be achieved by using the 38 DGAS or 38 DGES synchronous-opening models. Both can be used as a high performance alternative for most any **DGV** application.

CARBURETOR MODEL	PART NUMBER	BARREL DI	AMETER (mm)	CHOKE	NOTE
CARBONETOR MODEL	TARTNOMBER	Primary	Secondary	ACTUATION	NOTE
32/36 DGV 5 A	22680.005	32	36	MANUAL	
32/36 DGAV	22680.051B	32	36	WATER	
32/36 DGEV	22680.033B	32	36	ELECTRIC	
32/36 DGAV-IC	22680.551B	32	36	WATER	w/idle cut-off solenoid
32/36 DGEV-IC	22680.533B	32	36	ELECTRIC	w/idle cut-off solenoid
38 DGAS	18930.018	38	38	WATER	synchronous-opening
38 DGES	18930.020	38	38	ELECTRIC	synchronous-opening



#### **DFV SERIES**

The **DFV** series offers the same increased performance, economy, driveability and excellent value as does the DGV Series. The basic design of the **DFV** carbs is that of the DGV but as a mirror image, with the primary and secondary barrel positions reversed in the body. While the throttle lever in the **DFV** rotates in a clockwise motion, it rotates counter-clockwise in the DGV. The **DFV** also features a power valve circuit to facilitate low vacuum running conditions-perfect for long duration, high power output situations. You get the same value, parts availability and durability as with the DGV in a carburetor suited to your needs.

CARBURETOR MODEL	PART NUMBER	BARREL DI	AMETER (mm)	CHOKE	NOTE	
CARBORETOR MODEL		Primary	Secondary	ACTUATION	NOTE	
32/36 DFEV 23A	00000 070		00			
52/30 DFEV 23A	22680.070	32	36	ELECTRIC		



### WEBER

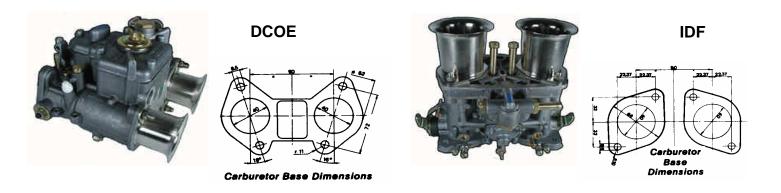
#### WEBER CARBURETOR BUYING GUIDE DCOE, IDF SERIES

#### DCOE SERIES

With a Grand Prix Racing heritage, the venerable **DCOE** is Weber's premier carburetor, and still the standard by which all other carburetors are measured. It is unsurpassed for full-race use, yet its infinite turnability by way of interchangeable calibrated parts allows it to be tailored to suit any engine and applicaton.

Hardly enough can be said about the **DCOE**. Its features include: ball bearing throttle shafts, piston type accelerator pump circuits, a wide variety of throttle bore sizes and, of course, the excellence that is Weber.

CARBURETOR MODEL	PART NUMBER	BARREL DIAMETER (mm)	CHOKE ACTUATION	NOTE
40 DCOE 151	19550.174	40	MANUAL	
45 DCOE 152	19600.060	45	MANUAL	
48 DCO SP	19630.007	48		
50 DCO/SP	19650.001	50		use w/19650.002
50 DCO/SP	19650.002	50		use w/19650.001
55 DCO/SP	19700.001	55		use w/19700.002
55 DCO/SP	19700.002	55		use w/19700.001



#### **IDF SERIES**

With its central float chambers, full calibration capabilities, compact alloy body and wide variety of available sizes, the **IDF** Series has been and continues to be the winning choice for a synchronous, 2 barrel, downdraft carburetor. The **IDF** features diaphragm type accelerator pump circuits and ball bearing throttle shafts. When used with an adapter, the **IDF** will replace the Solex 40 PII carburetors used on many Porsches. The **IDF** is ideal for use on most opposed-cylinder engines, or on engines where the intake ports are nearly vertical. Offering relative low cost for performance gained, the **IDF** is hard to beat.

**INTERCO** offers the **IDF** XE Series carburetors, for use in extreme or severe environments. Complete XE carbs include: Extended Emulsion Tube Holders and Adjustable, Spring-Loaded Accelerator Pump Actuating Rods.

CARBURETOR MODEL	PART NUMBER	BARREL DIAMETER (mm)	CHOKE ACTUATION	NOTE
40 IDF 70	18950.138	40		XE carb., right or left
44 IDF 71	18990.030	44		XE carb., right or left
48 IDF 6	19030.021	48		XE carb., right or left



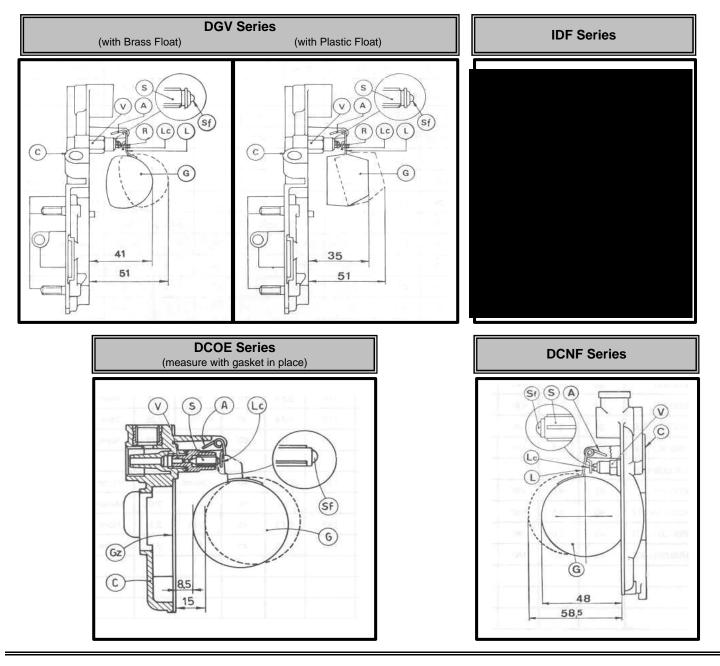


## WEBER FLOAT LEVELING INSTRUCTIONS DCOE, DCNF, DGV, IDF

The float level is a critical part of any carburetor calibration. Varying the level of fuel in the bowl will change the point at which the main circuit starts to feed, alter the characteristics of an emulsion tube, and affects both drivability and fuel consumption. Follow these general instructions for float leveling.

**GENERAL INSTRUCTIONS**. Float level, expressed in mm, generally refers to the distance of the float from the face of the carburetor cover. When the top cover is held vertical with the float pivot at the top and the float **tab** (Lc) resting, against, but not compressing, the spring-loaded ball in the needle valve, measurement is made between the top or bottom of the float to the face of the top cover. On carburetors where it it necessary to remove the float in order to replace the top-cover gasket, the measurement should be made to the gasket face, with the gasket in place.

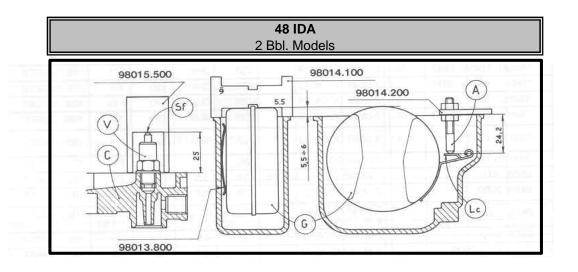
To adjust the float level, **tab** (Lc) should be carefully bent until the required dimension is achieved. Float stroke is the dimension from the top cover to the top or bottom of the float when the float is at the bottom of its travel. Adjust this dimension by bending **tab** (A).

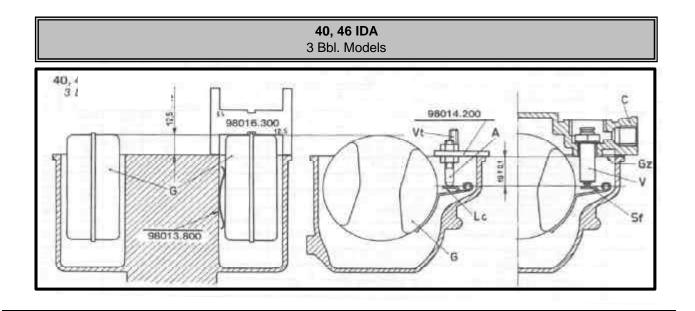




## WEBER FLOAT LEVELING INSTRUCTIONS 40,46, 48 IDA

These carburetors differ from others in that the float is retained in the body and is not removed with the top cover. **Two tools are required** for float leveling operations-Needle & Seat Gauge, pt.# **98014.200** & Spring Retainer, pt. # **98013.800**. The needle and seat gauge can be used to determine Dimension A, which should be 18mm on 3 Bbl. carburetors, and 24mm on 2 Bbl. carburetors (48 IDA). Retaining the needle and seat gauge and holding the float in this position with the spring check distance from top of carburetor body to top of float. This should be 12.5-13mm on 3 Bbl. models, and 5.5-6mm on 2 Bbl. carbs. Repeat the above process on each float. Should the float be incorrectly placed, modify the position of tabs (**Lc**), until they are perpendicular to the axis of tab (**A**) and make sure there are no indentations on the contact surface which might affect the free movement of the needles with ball (**Sf**) of the valves (**V**).



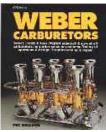


WEBER

#### WEBER CARBURETOR FACTORY CALIBRATIONS

Carburetor	Part	Main	Aux	Main	Em.	Air Corr.	Idle	Pump	Pump	Needle	Float Level	Choke
Model	Number	Venturi	Venturi	Jet	Tube	Jet	Jet	Jet	Exh.	Valve	(MM) O/C	Operation
32/36 DFAV	22680.056			127/140	F50/F66		60/50	55				Water
32/36 DFEV	22680.070			137/140	F30/F00	165/160	00/50	55			46.5/36.5	Electric
32/36 DGV 5A	22680.005	26/27	3.5/3.5	140/135	F50/F6		55/50	50	-	2.00		Manual
32/36 DGAV	22680.051B			140/140	F50/F50	170/160	60/50	50			35/51(Plastic)	Water
32/36 DGEV	22680.033B			140/140	130/130	170/100	00/30	30			51/41(Brass)	Electric
34 ICH	15290.027	29	3.5	165	F6	190	50	55	40	1.75	13/6.5	Manual
34 ICT	15290.035	ZJ	4.5	130	F78	160	52	50	ŦŬ	1.75	15/0.5	None
38 DGAS	18930.032	27	4.0	145	F50	185	45	70	30	2.50	52.5/40	Water
38 DGES	18930.020	21	4.0	145		105				2.50	52.5/40	Electric
	19550.174	30		115	F11	200	45F9	40	50		12	Manual
40 DCNF 12	18950.060	32		125	F24	220	50	45	100		50	·····
40 IDA 3C, 3C1	31300.001/002	30		125	F26	180	55	50	000	1.75	see page 4	None
40 IDF 70	18950.138	28	4.5	115	F11	200	50	50	55		32.5/10	
44 IDF 71	18990.030	36		135		175	50	50	55		52.5/10	Manual
45 DCOE 152	19600.060	50		145	F16	155	55F8	45	40	2.00	12	
46 IDA 3C, 3C1	31360.001/002	42		170	F24	145	70	50	40	1.75	see page 4	
48 DCO SP	19630.007	72	5.0	180	F7	160	65F8	45	100	2.50	12	
48 IDA	19030.015	37	4.5	135	Γ7	120	70F10	50	000	2.00	see page 4	
48 IDF 6	19030.021	40	4.5	150	F2	180	55	30	000	2.00	32.5/10	None
50 DCO SP	19650.001	46			F7	160	65F8					None
50 DCO 1/SP	19650.002	40	5.0	180	F7	100	0360	45	100	2.50	12	
55 DCO	19700.001	48	5.0	100	F9	180	60F8	40	100	2.50	12	
55 DCO 1SP	19700.002	40			г9	100	UVFO					

#### WEBER CARBURETOR TECHNICAL REFERENCE

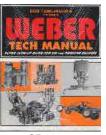


**WEBER** 

HP774



HM393



CB103



95.0000.54

HP774	HP Weber Book Some Highlights from this book are: MGB Weber Conversion, Theory, Tuning and Repair.
HM393	Haynes Weber Book tuning ,repair, and VW IDF installation and much more.
CB103	Weber Tech Book by Bob Thomlinson a must for the VW Enthusiast.
95.0000.54	Weber Factory Manual, Covers Theory, Tuning, the most in depth Technical Manual available.



#### WEBER REPAIR PARTS

CARBURETOR TYPE	PART NUMBER	REPAIR KIT	FLOAT INC.	GASKET KIT	FLOAT	ACCEL PUMP DIAPHRAGM	BASE GASKET
34 ICH	15290.027	92.1276.05	Y	N/A	41015.011	47407.261	99005.020
34 ICT	15290.035	92.1213.05	Y	92.0286.05	41015.011	47407.201	99003.020
32/36 DGV	22680.005	92.1137.05	Y				
		92.3237.05	N		41030.019		
32/36 DGAV	22680.051B	92.1137.05	Y	92.0108.05	Brass	47407.355	
		92.3237.05	N		41030.020		99005.068
32/36 DGEV	22680.033B	92.1137.05	Y		Plastic		
		92.3237.05	N				
32/36 DFEV	22680.070	92.1130.05 92.3230.05	Y N	92.0105.05	41030.022	47407.261	
38 DGAS	18930.032	92.1135.05	Y	N/A	41030.019	47407.355	99005.065
38 DGES	18930.020	92.1155.05	1	IN/A	41030.019	47407.333	99003.005
	19550.174	92.1514.05	Ν	92.0362.05	41030.034	N/A	99005.140***
40 DCOE	Old style paper top	92.1046.05	Y*	92.0015.05	41030.005		
	cover gasket	92.1047.05	Y**	92.0015.05	41030.005		
	18950.060	92.1094.05	Y	92.0077.05			99005.036
40 DCNF		4 Bolt Top		02.001.100	41015.005	47407.261	
		<b>92.1637.05</b> 5 Bolt Top	Y	92.0120.05	41015.005		
40 IDA 3 BBL	31300.001/002	92.3076.05	Ν	NLA	41015.007	N/A	
40 IDF 44 IDF	18950.138 18990.030	92.1502.05	Y	92.0092.05	41030.008	47407.027# 47407.207##	99005.047
	19600.060	92.1514.05	N	92.0362.05	41030.034		
45 DCOE	Old style paper top	92.1046.05	Y*		44000 005	N/A	99005.145***
	cover gasket	92.1047.05	Y**	92.0015.05	41030.005		
46 IDA 3 BBL	31360.008/009	92.3076.05	N	NLA	41015.007	N/A	99005.123
48 DCO SP	19630.007	92.1514.05	N	92.0362.05	41030.034	NI/A	99005.148***
48 IDA	19030.015	92.1050.05	Y	92.0034.05	41015.007	N/A	
48 IDF	19030.021	92.1502.05	Y	92.0092.05	41030.008	47407.027# 47407.207##	99005.047
50 DCO	19650.001						
50 DCO 1SP	19650.002	02 1514 05	NI	92.0362.05	41020 024	N/A	99005.150
55 DCO	19700.001	92.1514.05	N	92.0302.05	41030.034		
55 DCO 1 SP	19700.002						

\* Equipped with 1.75 mm needle valve

\*\* Equipped with 2.00 mm needle valve

\*\*\* Soft Mount Kit





# Early Style

## XE Style

#### WEBER CALIBRATED PARTS

MAIN JE	TS	APPLICATIONS	SIZES		
73401.XXX*		DCOE, DCO, IDA, IDF	.080 to 2.40	in .05 increments	
73801.XXX*		ADF, DARA, DCD, DCN, DCZ, DFAV, DFEV, DFI, DFM, DFV, DGAV, DGEV, DGV, DHSA, DIC, DICA, DIR, DMSA, ICH, ICT, IDA (3BBL)	.080 to 2.10	in .05 increments	
73405.XXX*		DATRA, DCNF, DFTA, DHTA, DMTR, DMTRA	1.00 to 2.00	in .05 increments	

AIR CORRECT	AIR CORRECTOR JETS APPLICATIONS			SIZES		
77401.XXX*	7	DCOE, DCO, IDA, IDF	.100 to .240	in .05 increments		
77201.XXX*		ADF, DARA,DCD,DCN, DFAV, DFEV, DFI, DFM, DFV, DGAV, DGEV, DGV, DHSA, DIC, DICA, DIR, DMSA, ICT, IDA (3 BBL)	.100 to .220	in .05 increments		
77501.XXX*		DATRA, DCNF, DFTA, DHTA, DMTR, DMTRA	.100 to .250	in .05 increments		

IDLE JE	TS	APPLICATIONS	SIZES
74403.XXX*		DFM, DFTA, DFV, DGAS, DGES, DGV, DGAV (Secondary), DHSA, DHTA, DIC, DICA, DIR, DMSA, IDA 3BBL	.40 to 1.00 in .05 increments
74405.XXX*		DCNF, IDF	0.40, 0.45, 0.47, 0.50, 0.52, 0.55, 0.60, 0.65, 0.70
74409.XXX*		DGAV (Primary), ICH, ICT	0.40, 0.45, 0.50, 0.55, 0.60, 1.00
74821.XXX*		DCOE F8	0.40, 0.45, 0.50, 0.55, 0.60, 0.65
74822.XXX*	•	DCOE F9	0.40, 0.45, 0.50, 0.55, 0.60, 0.65
74823.XXX*		48 IDA F10	0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80
77903.XXX*		48 IDA Idle Jet Holder/ Air Corrector	0.60, 1.00, 1.20
		or oxample a size 1 50mm main int for a DCOE is	

\* XXX represents the jet size. For example a size 1.50mm main jet for a DCOE is part number 73401.150



#### WEBER CALIBRATED PARTS

MAIN VENTURIS (CHOP	MAIN VENTURIS (CHOKES)		SIZES
72302.XXX*		40 DCOE	28, 30, 32, 34, 36 mm
71506.XXX*	·	40 IDF	28, 30, 32 mm
71507.XXX*	•	44 IDF	32, 34, 36 mm
72116.XXX*		45 DCOE	30, 32, 34, 36, 38, 40 mm
72128.XXX*		48 IDA	40, 42 mm
72136.XXX*		48, 50, 55 DCO	42 mm
AUXILLARY VENTUR	IS	APPLICATIONS	SIZES
71111.350		32/36 DGV 32/36 DGAV/EV	3.5 mm
69602.450		45 DCOE	4.5 mm
69602.500			5.0 mm
PUMP EXHAUST VAL	VE	APPLICATIONS	SIZES
79701.XXX*		DCOE,DCO,IDA, IDF	0.35 to 1.00 mm in .05 increments (.000 closed)
NEEDLE VALVES		APPLICATIONS	SIZES
79503.XXX*		DCN, DCNF, DCOE	1.50, 1.75, 2.00, 2.25, 2.50, 3.00 mm
79511.XXX*		IDF	1.50, 1.75, 2.00 mm
79518.XXX*		DGAS, DGES	2.00, 2.50 mm
79519.XXX*	5	DGV, DGAV, DGEV	1.50, 1.75, 2.00, 2.50 mm

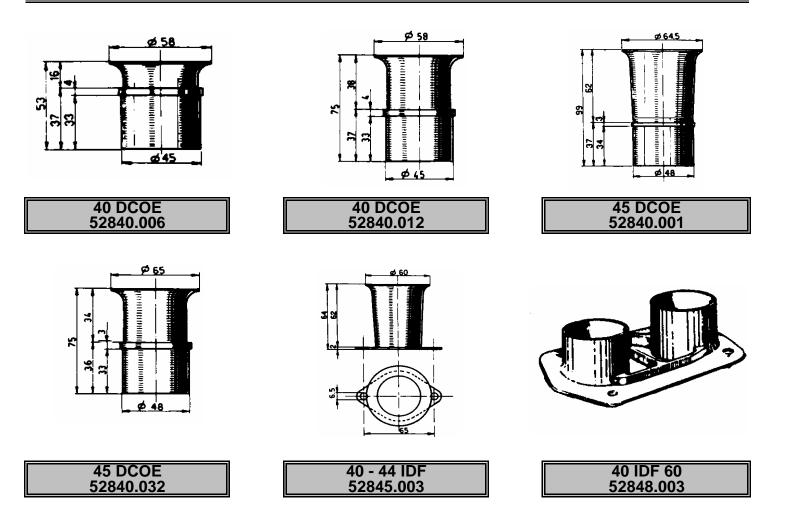
\* XXX represents the jet size. For example a size .50mm pump exhaust valve for a DCOE is part number 79701.050

#### WEBER CALIBRATED PARTS

ACCELERATOR PUMP J		CATIONS		SIZES
76801.XXX*	DCOE		0.35, 0.40, 0. 0.90	45, 0.50, 0.60, 0.65, 0.70,
76210.XXX*	IDF		0.40, 0.50, 0.	55
76215.XXX*	DCNF, DGV (Double So DGAV/EV (Double So	, ,	0.40, 0.45, 0.	50, 0.55, 0.60, 0.65, 0.70
* XXX represents the jet size. For	example a size .50mm accelerato	or pump jet for a DCOE is part	number 76215.050	
	EMUL	SION TUBES		
F2 61450.   F3 61450.   F4 61450.	028	8		
F5 61450.   F7 61450.   F8 61450.	091 092	-	F6 F24	61440.211 61440.213
F9 61450.   F10 61450.			F50 F66	61440.216 61440.220
F11 61450.		1.00		
F14 61450.		1000		
F15 61450.	Committee of the second s			
F16 61450. APPLICATION	181	100		APPLICATION
AFFLICATION	- 68 h			
DCOE, DCO, IDA, IDF			DFI, DFM, DO	A, DCN, DFAV, DFEV, DFD, GAS, DGES, DGAV, DGEV, DIC, DICA, DIR, DMSA, A 3BB
32/36 DGEV C	OMMON PARTS		DESCRIPTIO	ON .
	4.060	Idle Cut-Off Soleno		
	4.333J	Electric Choke Element		
57804.052		Power Valve Diaphragm-Manual Choke		
57804.097		Power Valve Diaphragm-Auto Choke		
99007.116		Universal Cable Linkage Kit (Fits DGV)		
32/36 DFEV COMMON PARTS DESCRIPTI		ON		
57804.332J		Electric Choke Element		
57804.096		Power Valve Diaphragm		
99005.216		Universal Cable Linkage Kit		
AIR FILTER MOUNTING GASKETS		HEAT-INSULATING GASKETS		
Carburetor Part Number		Carburetor	Thickness	Part Number
DCOE	99005.030	DGV,DGAV/EV, DGAS/ES		99005.119
DFAV, DFEV	99005.070	DGV,DGAV/EV, DGAS/ES		99005.120
DGV,DGAV/EV, DGAS/ES	99005.069	40 IDF	3mm	99005.121
DGV,DGAV/EV, DGAS/ES				



#### WEBER CARBURETOR VELOCITY STACKS (AIR HORNS)



STE SYNCHROMETERS			
	SK	Standard-	
	SN	reads 1-30 KG/H	
	BK	High Volume- reads 2-40 KG/H	

SYNCHROMETER ADAPTERS			
118		040	22/26
	DCOE, IDA	S	32/36 DGAV, 38 DGAS

#### **VW ACCESSORIES**

PART NUMBER	DESCRIPTION	ILLUSTRATION
3447-7	Heat Riser Block-Off Plate Kit Covers heat riser flanges when intake heat riser is not used. Inclues Gaskets.	00
99005.216	Uni-Link Kit Allows you to adapt your linkage to Fits any 32/36 DFEV Carburetor	Liso
3397-7	<b>Intake Manifold Gasket-</b> Dual Port, Pair	
3227-7	Intake Manifold Gasket Type 2 & 4 - 1.7-2.0 Ltr. 3 & 4 Bolt Gaskets, Pair	
3236	<b>Dual Port End Kit-Type 1, 2, &amp; 3</b> Thick enough for <i>porting &amp; polishing</i> . These new aluminum end castings come complete with necessary hardware.	00
3237	Single Port End Kit- Type 1, 2, & 3 Cast Aluminum Ends for use with Center Section Style manifolds with Single Port Heads. Complete with necessary hardware.	60
3412	<b>Dual Port Installation Ki</b> t-Black Quality Step-Style Boots. Clamps and quality dual port intake gaskets included.	
9104-7 9105-7 9109-7	Universal Glass See Through Fuel Filters 1/4" Fuel Filter 5/16" Fuel Filter Replacement Element-Pack of 2	





### WEBER ACC

#### ACCESSORIES & FILTERS

PART NUMBER	DESCRIPTION	ILLUSTRATION
41-2000-8	Facet Solid State Electric Fuel Pump Solid State reliabilty pumping 30 G.P.H. at 2 to 4 P.S.I. Use with gas or alcohol.	
9102-7 9097-7 9103-7	<b>Fuel Pressure Regulator</b> 5/16" Fuel Fitting-Pair 1/4" Fuel Fitting-Pair	
E1000 E2000	Rectangular Replacement Element Gauze - 1 3/4" High Gauze - 2 1/2" High	
E1005	<b>Oval Replacement Element</b> Gauze - 3 1/2" High	
F1000	<b>Rectangular Air Cleaner</b> DGV, DGAV, DGEV - 1 3/4" High with Gauze Filter	
F1005	<b>Rectangular Air Cleaner</b> DFV, DFAV, DFEV - 1 3/4" High with Gauze Filter	
F1012	Round Chrome Air Cleaner 5 1/2" Diameter- High Flow VW Carb. 2 1/2 High w/Paper	





**FILTERS** 

PART NUMBER	DESCRIPTION	ILLUSTRATION
F1020	<b>Oval Air Cleaner</b> Weber 38-45 DCOE- 2 1/2" High w/Gauze Filter	**
F1025	<b>Oval Air Cleaner</b> Weber 40-44 IDF- 3 1/2" High w/Gauze Filter	**
F2000	<b>Rectangular Air Cleaner</b> DGV,DGAV, DGEV- 2 1/2" High w/Gauze Filter	
F2005	<b>Rectangular Air Cleaner</b> Weber DFV, DFAV, DFEV- 2 1/2" High w/Gauze Filter	
PF-200	Universal Nylon 90 ° A/C Fitting	CLE
99317.411 99317.412	<b>Pod-Style Gauze Air Cleaner</b> VW Carb 5 " High VW Carb 5 " High w/Vent	
99435.150 99435.250	Bulk Replacement Clip 1 3/4" 2 1/2"	



