

ISO 5011 Tested to Make Sure You Maximize Airflow While Still Protecting Your Engine.

Part Number: 75-5116, 75-5116D

Description: Performance Intake Kit & Filter

Vehicle Applications: 2017-2018 Silverado 1500 / Sierra 1500

5.3L 6.2L

Test Date: 02/17/17

Test Report #: 1, 2, 3, 4, 5, 6,

7, 8

TECHNICAL BULLETIN

There is a lot of misinformation in the marketplace. S&B publishes specific test results for each of our intakes & filters as shown below, so you can make an informed decision. Remember, improving your airflow is only good if your engine is still protected. That's the S&B difference!

FACT: S&B Flows 40.16% Better than Stock

In tests performed in our climate controlled laboratory according to the ISO5011 Test Standard, S&B's intake kit (and filter) had significantly lower restriction (better airflow) than the stock intake system. See the graph on the next page.

WATCH OUT: Some competitors over state airflow.

If they state that their filter will flow, lets say 1000 cfm, without stating at what restriction level, they are trying to mislead you.

Description	% S&B Flowed Better than Stock (tested @ 419 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	40.16%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	36.07%
S&B Intake w/ Dry Filter (Secondary Inlet - Open)	37.43%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	34.02%

TEST CONDITIONS

Barometric Pressure	28.98
Airflow Setpoint	419 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13228C
Dust Feed Rate (grams/minute)	11.86

FACT: S&B Protects Your Engine

S&B tests at the highest rated CFM for your vehicle when determining the efficiency rate (amount of dust the filter stops), so that we can be sure that your engine will be protected.

	Efficiency Rate	
Description	(tested @ 419 cfm)	
Stock	99.45%	
S&B Intake w/ Cleanable Filter	99.15%	
S&B Intake w/ Dry Filter	99.74%	

WATCH OUT: Some Competitors Use the Same Efficiency Rates for Multiple

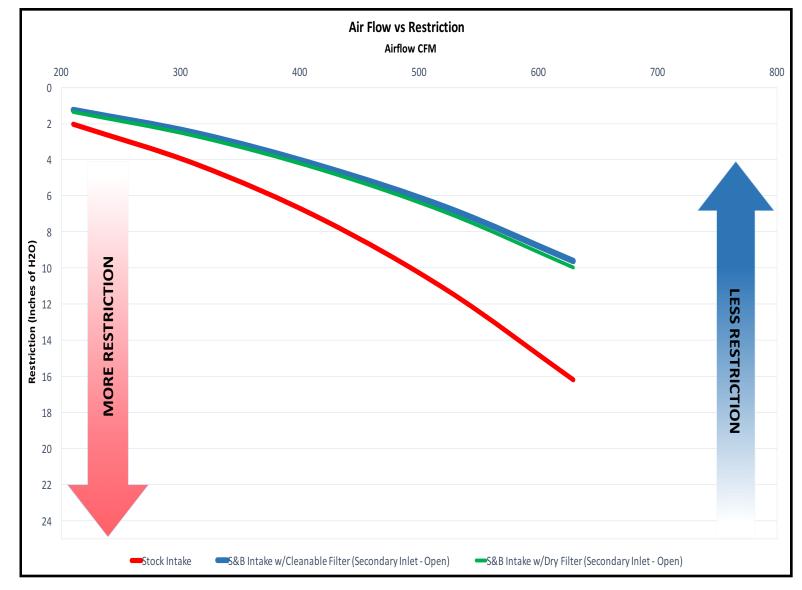
Part Numbers.

Many send one filter off to a lab to be tested at a low cfm and then publish this efficiency rate for all of their part numbers.









 Test #:
 404
 Operator:
 SD

 Sample #:
 1
 Report Date:
 2/17/2017

 Filter #:
 A3181C
 Filter Mfg.:

Housing #: Housing Mfg.:

Date Code:

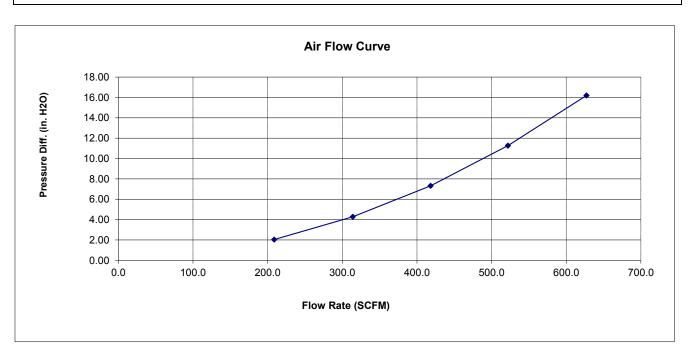


Test Description: STOCK FILTER AND INTAKE, RESONATOR, NO SENSORS, ACDELCO A3181C

Test Conditions

Barometric Pressure: 28.94224 in. Hg
Air Flow Type: SCFM
Number of Pleats: Relative Humidity: 48 %
Temperature: 69 deg. F
Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>		
209	2.04		
314	4.28		
418	7.32		
522	11.27		
627	16.20		

Test #: 404 Sample #: 3 Filter #: KF-1060D Housing #: 75-5116 Date Code: Operator: SD Report Date: 2/17/2017 Filter Mfg.: Housing Mfg.:



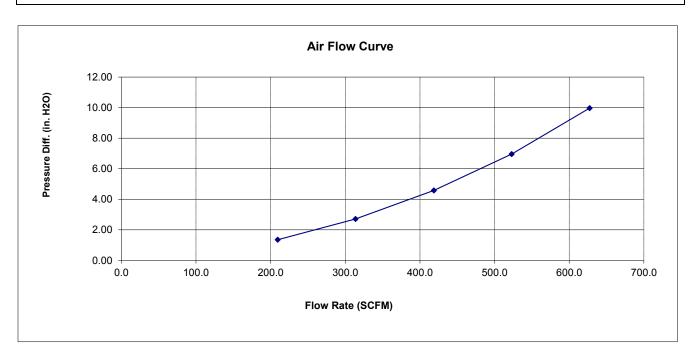
Test Description: 75-5116 PRODUCTION KIT, NO SENSORS, NO CCV, CLEAR LID AND FENDER SEAL INSTALLED

PLUG REMOVED, KF-1060D

Test Conditions

Barometric Pressure: 28.94187 in. Hg Relative Humidity: 48 %
Air Flow Type: SCFM Temperature: 68 deg. F
Number of Pleats: Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
210	1.35
314	2.71
419	4.58
523	6.96
627	9.97

Test #: 404
Sample #: 4
Filter #: KF-1060D
Housing #: 75-5116
Date Code:

Operator: SD Report Date: 2/17/2017 Filter Mfg.: Housing Mfg.:



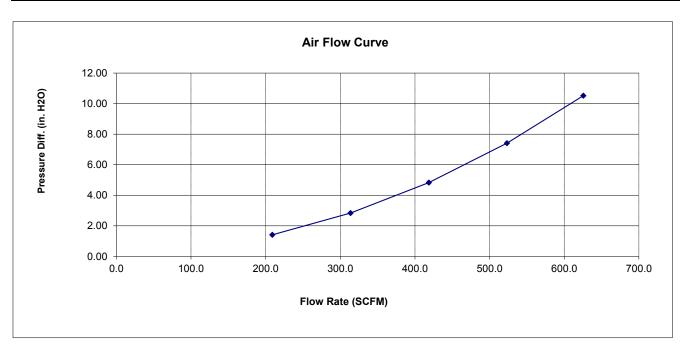
Test Description: 75-5116 PRODUCTION KIT, NO SENSORS, NO CCV, CLEAR LID AND FENDER SEAL INSTALLED, PLUG INSTALLE

KF-1060D

Test Conditions

Barometric Pressure: 28.93421 in. Hg
Air Flow Type: SCFM
Number of Pleats: Relative Humidity: 48 %
Temperature: 68 deg. F
Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>		
209	1.41		
314	2.84		
419	4.83		
523	7.41		
626	10.52		

Test #: 404 Sample #: 5 Filter #: KF-1060 Housing #: 75-5116 Date Code: Operator: SD Report Date: 2/17/2017 Filter Mfg.: Housing Mfg.:



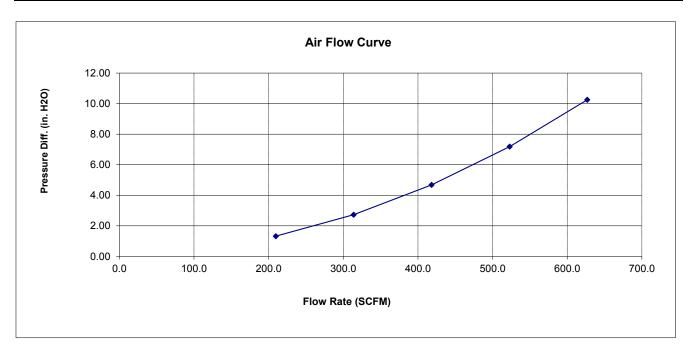
Test Description: 75-5116 PRODUCTION KIT, NO SENSORS, NO CCV, CLEAR LID AND FENDER SEAL INSTALLED, PLUG INSTALLE

KF-1060

Test Conditions

Barometric Pressure: 28.92104 in. Hg
Air Flow Type: SCFM
Number of Pleats: Relative Humidity: 48 %
Temperature: 68 deg. F
Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>		
210	1.32		
314	2.73		
418	4.68		
523	7.19		
627	10.25		

Test #: 404 Sample #: 6 Filter #: KF-1060 Housing #: 75-5116 Date Code: Operator: SD Report Date: 2/17/2017 Filter Mfg.: Housing Mfg.:



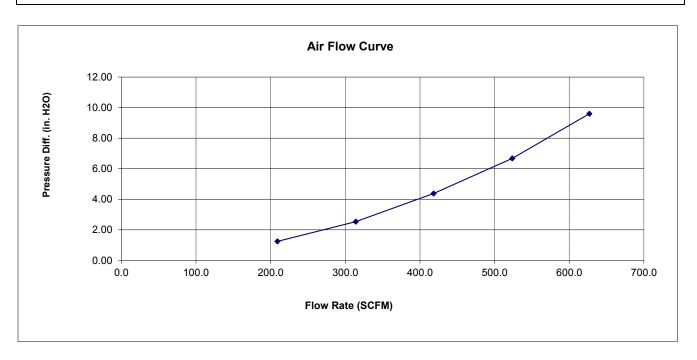
Test Description: 75-5116 PRODUCTION KIT, NO SENSORS, NO CCV, CLEAR LID AND FENDER SEAL INSTALLED, PLUG REMOVED

KF-1060

Test Conditions

Barometric Pressure: 28.92738 in. Hg
Air Flow Type: SCFM
Number of Pleats: Relative Humidity: 49 %
Temperature: 68 deg. F
Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
209	1.24
314	2.54
418	4.38
524	6.67
627	9.60

Air Filter Full Life Efficiency Test Report

404 Test #: Sample #: 2 Filter #: A3181C Housing #:

Date Code:

Operator: SD Report Date: 2/17/2017 Filter Mfg.: Housing Mfg.:



48 %

Test Description: STOCK INTAKE AND FILTER, RESONATOR, NO SENSORS, ACDELCO A3181C

Test Conditions

Barometric Pressure: 28.946 in. Hg 419 SCFM Air Flow Setpoint:

Test Procedure: Air Flow Type: SCFM

Test Endpoint: 10 in. H2O

Number of Pleats: Flow Direction:

Type of Dust: A4 COARSE Batch #: 13228C 69 deg. F Temperature:

Relative Humidity:

Initial Add Rate: NaN g/min **Accumulative Add Rate:** 11.86 g/min

Pleat Depth: in.

Test Results

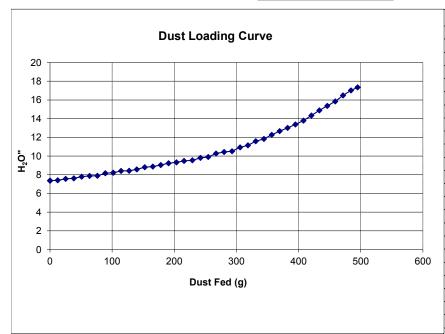
Initial Delta P 7.33 in. H2O

Accumulative Capacity: Test Time:

493.60 g 38.84 min

	Initial		Accumulative	;
		Blanket		Blanket
Start			4650.50	136.90
End			5144.10	139.60
Gain			493.60	2.70
Efficiency			99.45%	

Standard Restriction Pressure Differential



Dust Loading Curve Data		
Dust Fed (g)	Pressure ("H2O)	
0	7.362	
12.415	7.409	
25.105	7.552	
38.358	7.61	
51.029	7.793	
63.66	7.866	
76.35	7.887	
89.021	8.157	
101.724	8.216	
114.429	8.402	
127.268	8.421	
139.698	8.57	
152.527	8.797	
165.364	8.866	
178.292	9.031	
190.846	9.222	
203.478	9.33	
215.791	9.474	
229.14	9.543	
241.973	9.804	
254.682	9.896	
267.225	10.272	
280.119	10.428	
293.035	10.517	

Air Filter Full Life Efficiency Test Report

404 Test #: Sample #: 7 Filter #: KF-1060 Housing #: 75-5116

Date Code:

Operator: SD Report Date: 2/17/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5116 PRODUCTION KIT, NO SENSORS, NO CCV, CLEAR LID AND FENDER SEAL INSTALLED

PLUG INSTALLED, KF-1060

Test Conditions

Barometric Pressure: 28.897 in. Hg **Relative Humidity:** 48 % Type of Dust: A4 COARSE 419 SCFM Air Flow Setpoint: **Test Procedure:** Batch #: 13228C

Air Flow Type: 68 deg. F SCFM Temperature: **Test Endpoint:** 10 in. H2O **Initial Add Rate:** NaN g/min **Number of Pleats: Accumulative Add Rate:** 11.86 g/min Flow Direction: Pleat Depth: in.

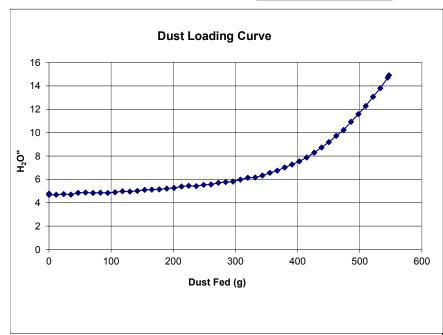
Test Results

Initial Delta P 4.82 in. H2O **Accumulative Capacity:** 543.30 g

Test Time: 46.18 min

	Initial		Accumulative	;
		Blanket		Blanket
Start			5141.00	139.60
End			5684.30	144.20
Gain			543.30	4.60
Efficiency			99 15%	

Standard Restriction Pressure Differential



Dust Loading Curve Data		
Dust Fed (g)	Pressure ("H2O)	
0	4.678	
11.617	4.686	
23.646	4.746	
35.244	4.693	
46.843	4.855	
58.723	4.877	
70.854	4.838	
82.677	4.86	
94.659	4.845	
106.392	4.895	
118.201	4.98	
130.33	4.962	
142.133	5.019	
153.823	5.101	
165.53	5.124	
177.371	5.151	
189.453	5.216	
201.311	5.265	
213.225	5.392	
224.796	5.451	
236.838	5.42	
248.8	5.526	
260.722	5.562	
272.465	5.704	
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Air Filter Full Life Efficiency Test Report

Test #: 404 Sample #: 8 Filter #: KF-1060D Housing #: 75-5116

Date Code:

Operator: SD Report Date: 2/17/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5116 PRODUCTION KIT, NO SENSORS, NO CCV, CLEAR LID AND FENDER SEAL INSTALLED

PLUG INSTALLED, KF-1060D

Test Conditions

28.852 in. Hg **Barometric Pressure: Relative Humidity:** 47 % 419 SCFM Air Flow Setpoint: Type of Dust: A4 COARSE **Test Procedure:** Batch #: 13228C

Air Flow Type: SCFM Temperature: 69 deg. F **Test Endpoint:** 10 in. H2O **Initial Add Rate:** NaN g/min **Number of Pleats: Accumulative Add Rate:** 11.86 g/min Flow Direction: Pleat Depth: in.

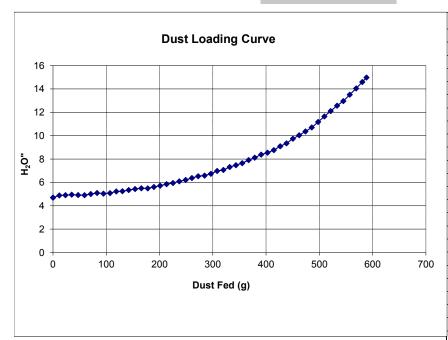
Test Results

Initial Delta P 4.85 in. H2O **Accumulative Capacity:** 586.10 g **Test Time:** 49.66 min

> Initial Accumulative Blanket Blanket 5086.20 144.20

> Start 5672.30 End 145.75 586.10 1.55 Gain Efficiency 99.74%

> > Standard Restriction Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	Pressure ("H2O)
0	4.696
11.742	4.88
23.328	4.903
35.264	4.954
47.238	4.922
59.135	4.904
70.871	5.004
82.725	5.091
94.86	5.039
106.982	5.084
118.697	5.228
130.418	5.244
142.173	5.349
154.03	5.43
165.888	5.503
177.793	5.488
189.358	5.607
201.22	5.717
213.258	5.851
225.231	5.942
237.012	6.088
248.94	6.205
260.681	6.377
272.624	6.525
	0.320











