



Automotive & Powersports

# THE FACTS ABOUT YOUR INTAKE & AIR FILTER

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

<b>Part Number:</b>	<b>Test Date:</b>
<b>Description:</b>	<b>Test Report #:</b>
<b>Vehicle Applications:</b>	

## 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!

<p><b>FACT: S&amp;B Flows _____ Better than Stock.</b>          In tests performed in our climate controlled laboratory according to the ISO5011 Test Standard, S&amp;B's intake kit (and filter) had significantly lower restriction (better airflow) than the stock intake system. See the graph on the next page.</p>	<p><b>WATCH OUT: Some competitors overstate airflow.</b>          If they state that their filter will flow, let's say 1000 cfm, without stating at what restriction level, they are trying to mislead you.</p>
--	---

Description	% S&B Flowed Better than Stock (tested @ _____ cfm)	Test Conditions
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)		Barometric Pressure
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)		Airflow Setpoint
S&B Intake w/ Dry Filter (Secondary Inlet - Open)		Relative Humidity
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)		Temperature
		Type of Dust
		Batch #
		Dust Feed Rate (grams/minute)

<p><b>FACT: S&amp;B Protects Your Engine</b>          S&amp;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</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Efficiency Rate (Tested @ _____ cfm)</th> </tr> </thead> <tbody> <tr> <td>Stock</td> <td></td> </tr> <tr> <td>S&amp;B Intake w/ Cleanable Filter</td> <td></td> </tr> <tr> <td>S&amp;B Intake w/ Dry Filter</td> <td></td> </tr> </tbody> </table>	Description	Efficiency Rate (Tested @ _____ cfm)	Stock		S&B Intake w/ Cleanable Filter		S&B Intake w/ Dry Filter		<p><b>WATCH OUT: Some Competitors Use the Same Efficiency Rates for Multiple Part Numbers</b>          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</p>
Description	Efficiency Rate (Tested @ _____ cfm)									
Stock										
S&B Intake w/ Cleanable Filter										
S&B Intake w/ Dry Filter										

RESET FORM

# Air Filter Restriction Test Report

Test #: 916 9R  
Sample #:  
Filter #: KF-1087  
Housing #: 75-5162  
Date Code:

8/15/2023  
S&B  
S&B



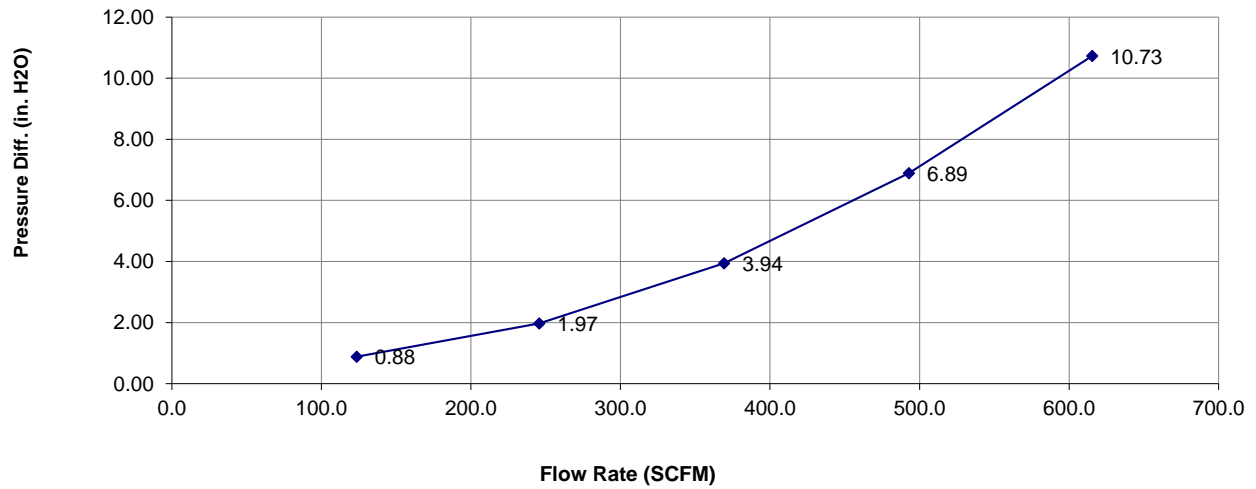
Test Description: 75-5162 NO Box Plug, Proto Scoop, 85 PL, 96 grams, Restriction Test

## Test Conditions

Barometric Pressure: 28.86728 in. Hg  
Air Flow Type: SCFM  
Number of Pleats: 85  
Flow Direction:

Relative Humidity: 66 %  
Temperature: 70 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
124	0.88
246	1.97
369	3.94
493	6.89
615	10.73

# Air Filter Restriction Test Report

Test #: 916 8R  
Sample #:  
Filter #: KF-1087, 85pl, 96g  
Housing #: 75-5162  
Date Code: 2023.08.15

JM  
8/15/2023  
S&B  
S&B



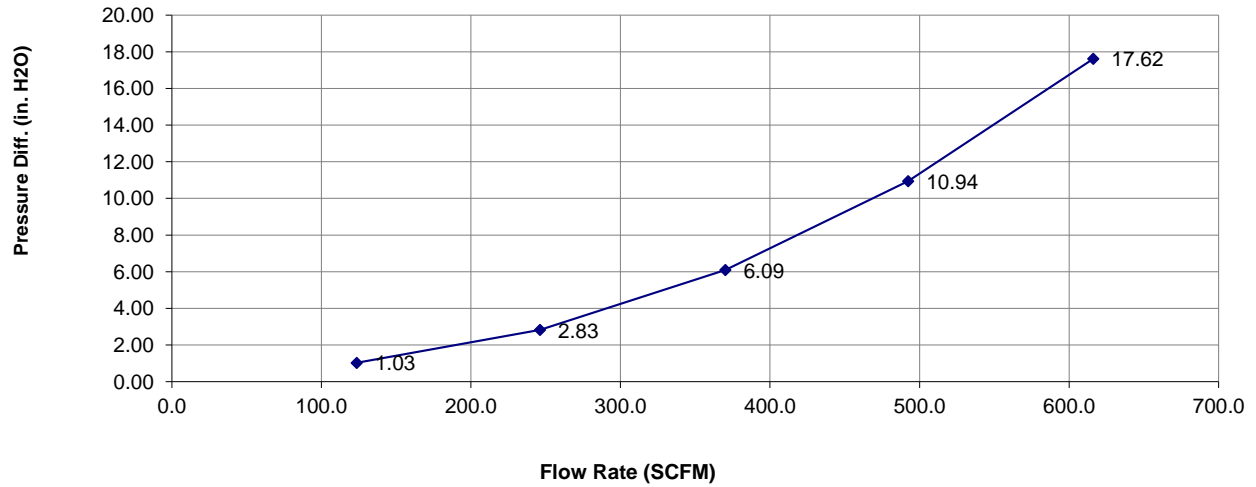
Test Description: 75-5162 with Box Plug, Proto Scoop, 85 PL, 96 grams, Restriction Test

## Test Conditions

Barometric Pressure: 28.86491 in. Hg  
Air Flow Type: SCFM  
Number of Pleats: 85  
Flow Direction:

Relative Humidity: 66 %  
Temperature: 70 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
124	1.03
246	2.83
370	6.09
492	10.94
616	17.62

# Air Filter Full Life Efficiency Test Report

Test #: 916 11CE  
Sample #:  
Filter #: KF-1087  
Housing #: 75-5162  
Date Code: 2023.08.15

Operator: JM  
Report Date: 8/15/2023  
Filter Mfg.: S&B  
Housing Mfg.: S&B



Test Description: 75-5162 with Box Plug, Proto Scoop, 85 PL, 96 grams, CE Test

## Test Conditions

Barometric Pressure: 28.766 in. Hg  
Air Flow Setpoint: 617 SCFM  
Test Procedure: CE  
Air Flow Type: SCFM  
Test Endpoint: 10 in. H2O  
Number of Pleats: 85  
Flow Direction:

Relative Humidity: 53 %  
Type of Dust:  
Batch #:  
Temperature: 73 deg. F  
Initial Add Rate: NaN g/min  
Accumulative Add Rate: 17.47 g/min  
Pleat Depth: in.

## Test Results

Initial Delta P 17.94 in. H2O

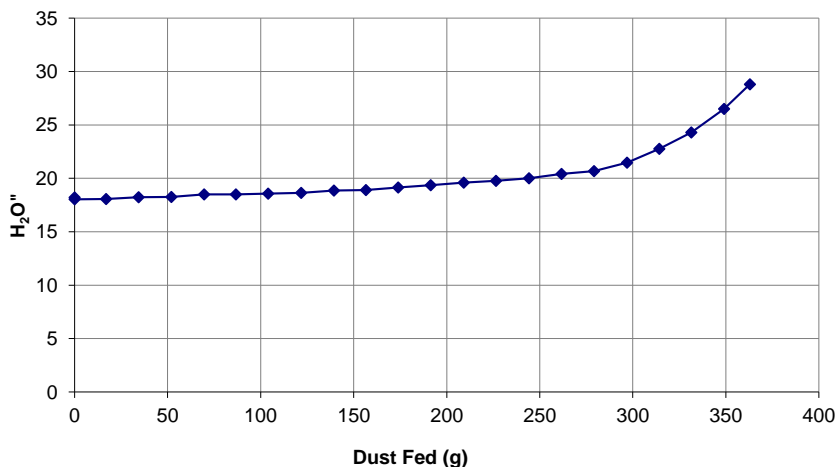
Accumulative Capacity: 351.00 g  
Test Time: 20.80 min

	Initial		Accumulative	
			Kit	Blanket
Start			4670.00	584.89
End			5021.00	586.51
Gain			351.00	1.62
Efficiency			99.54%	

Standard Restriction

Pressure Differential

## Dust Loading Curve



## Dust Loading Curve Data

Dust Fed (g)	Pressure (H2O)
0	18.034
16.944	18.07
34.393	18.226
51.971	18.265
69.592	18.495
86.697	18.497
104.033	18.565
121.741	18.636
139.353	18.865
156.541	18.916
173.957	19.149
191.442	19.37
209.117	19.606
226.51	19.774
244.253	20
261.74	20.413
279.138	20.682
296.873	21.469
314.276	22.765
331.418	24.302
349.03	26.514
362.917	28.809

# Air Filter Restriction Test Report

Test #: 916 17R  
Sample #: 17R  
Filter #: KF-1087D  
Housing #: 75-5162  
Date Code: 45154

EM  
8/16/2023  
S&B  
S&B



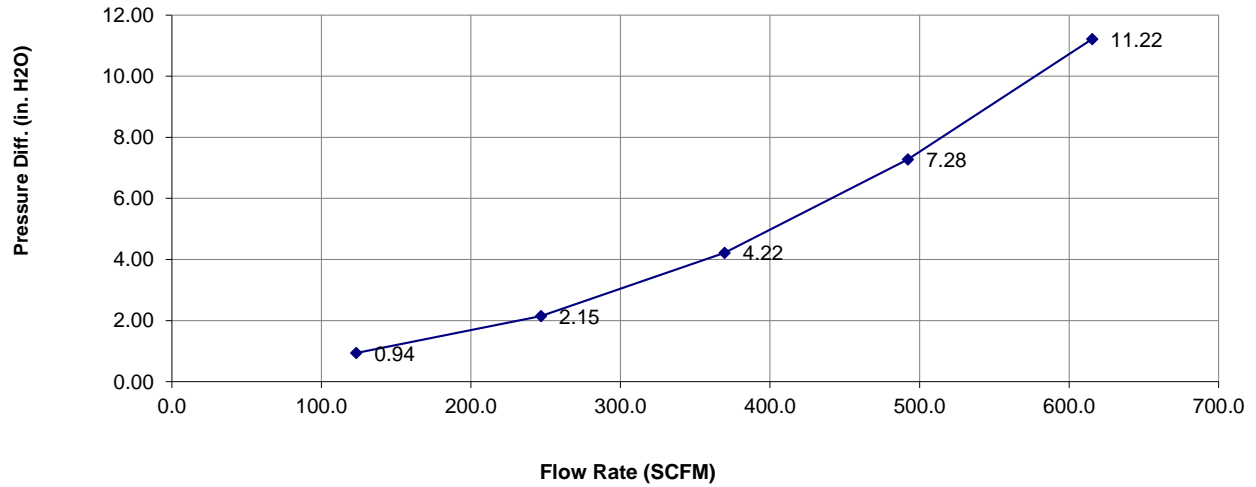
Test Description: 75-5162 NO BOX PLUY 135PL 15G

## Test Conditions

Barometric Pressure: 28.81355 in. Hg  
Air Flow Type: SCFM  
Number of Pleats: 135  
Flow Direction:

Relative Humidity: 54 %  
Temperature: 71 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
123	0.94
247	2.15
370	4.22
492	7.28
616	11.22

# Air Filter Restriction Test Report

Test #: 916 16R  
Sample #: 16R  
Filter #: KF-1087D  
Housing #: 75-5162  
Date Code: 45154

EM  
8/16/2023  
S&B  
S&B



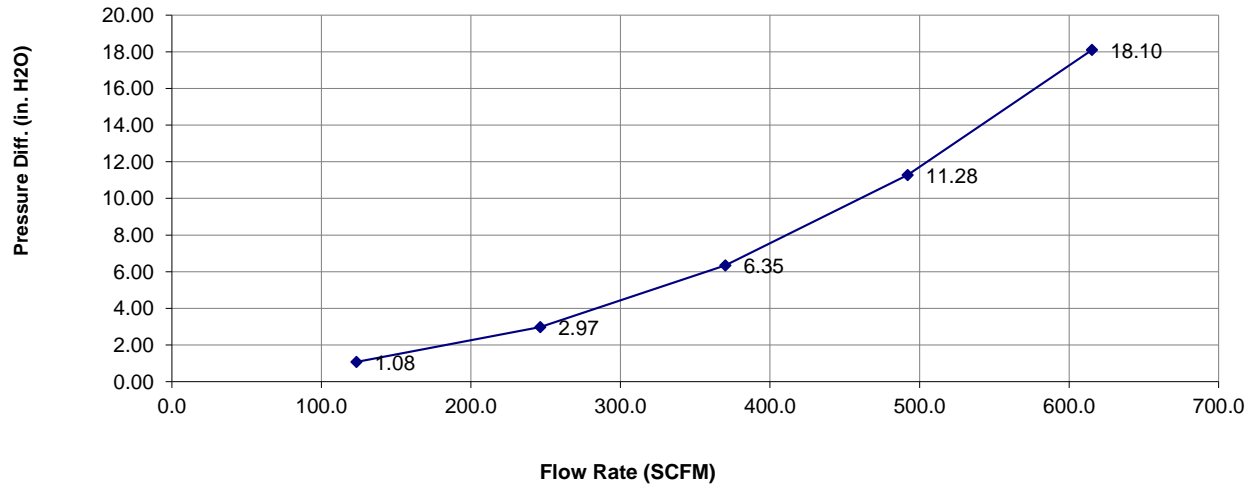
Test Description: 75-5162 WITH BOX PLUY 135PL 15G

## Test Conditions

Barometric Pressure: 28.81705 in. Hg  
Air Flow Type: SCFM  
Number of Pleats: 135  
Flow Direction:

Relative Humidity: 55 %  
Temperature: 71 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
123	1.08
246	2.97
370	6.35
492	11.28
615	18.10





FILTERS  
filters.com



# Air Filter Restriction Test Report

Test #: 916 1R  
Sample #: 1R  
Filter #: FORD OE  
Housing #: 2.7L BRONCO  
Date Code: 45152

EM  
8/14/2023



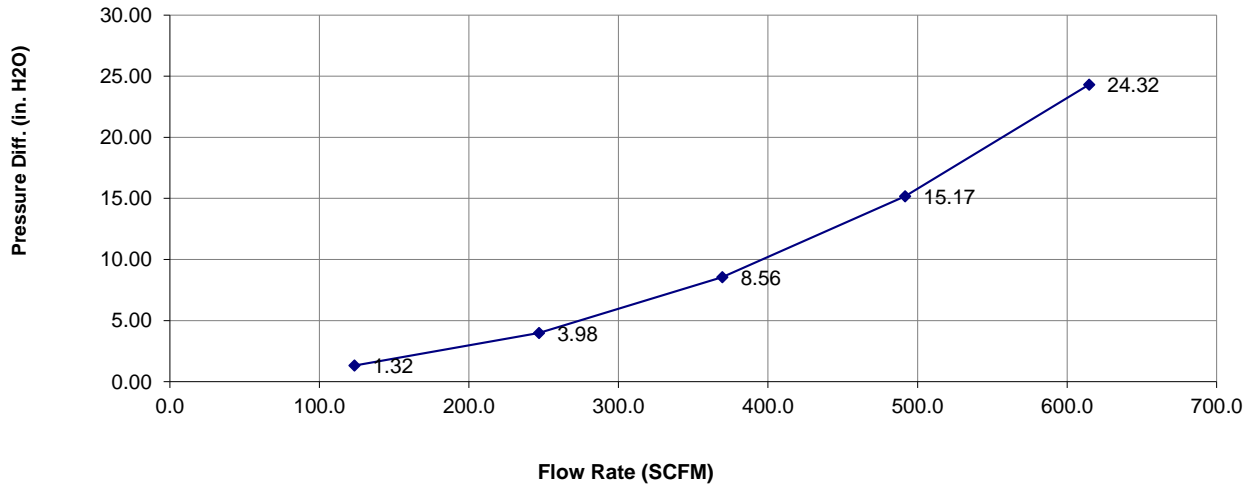
Test Description: 2021 Ford Bronco, 2.7L, Restriction Test

## Test Conditions

Barometric Pressure: 28.81076 in. Hg  
Air Flow Type: SCFM  
Number of Pleats:  
Flow Direction:

Relative Humidity: 59 %  
Temperature: 69 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
123	1.32
247	3.98
369	8.56
492	15.17
615	24.32





ALTERS