



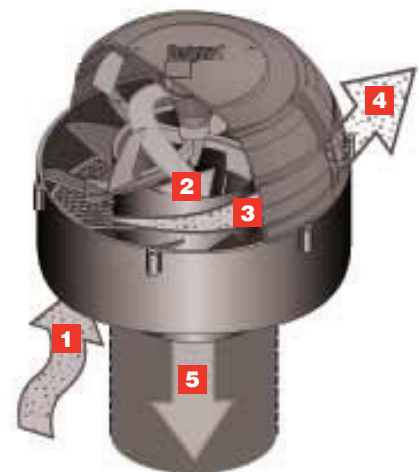
- Extended air filter life
- Increased engine protection
- Reduced downtime
- Reduced maintenance costs
- Self-cleaning
- Lightweight
- Easy to install
- Durable polymer design

## The Benefits of Fleetguard Pre-Cleaners

Fleetguard Pre-Cleaners are state-of-the-art products that reduce maintenance costs and downtime for all diesel applications. They are recommended for the construction, farming, mining, forestry or any other segment where operating conditions are severe. Fleetguard Pre-Cleaners keep air filters clean, extend the life of the filter and maintain engine performance. Positioned at the beginning of the air intake, Fleetguard air Pre-Cleaners eject the majority of dust/dirt particles that are heavier than air.

## How the Fleetguard Pre-Cleaner Works

- 1** Dirty air passes through prescreen and enters through recessed vanes at the bottom of the Fleetguard Pre-Cleaner.
- 2** The curved particle accelerator rotates much faster than the incoming air, capturing debris, which is passed down the length of the particle accelerator's straked vanes.
- 3** The debris is then deposited on the inner wall of the separator chamber.
- 4** As the particle accelerator spins, it sweeps debris that has deposited under the strakes onto the inner wall of the pre-cleaner, where it is ejected.
- 5** Clean air continues to spin upward, being compressed, and forced into the air inlet opening.





To properly size a Fleetguard Pre-Cleaner, you will need to know the correct airflow of the engine in CFM (m<sup>3</sup>/min) and the Outside Diameter (OD) of the air intake. For optimum efficiency, select the pre-cleaner where the CFM (m<sup>3</sup>/min) falls in the upper end of the ranges shown. **Do not size a Fleetguard Pre-Cleaner solely based on the air intake dimension.**

Pre-cleaners should not be mounted against any part of the machine as space is needed to allow air to enter into the pre-cleaner.

Cummins Filtration® does not recommend putting pre-cleaners high in the air on an extended pipe as the further away the air intake is from the engine, the more added restriction.

### Ordering Information

Part Number	A Outlet OD in (mm)	B Width in (mm)	C Height in (mm)	Flow Rate	
				CFM	m <sup>3</sup> /min
AP8407	2 (50.8)	4.5 (114.3)	3 (76.2)	10 - 50	0.3 - 1.4
AP8408	3 (76.2)	6.7 (170.18)	4.2 (106.68)	50 - 120	1.4 - 3.4
AP8403	4 (101.6)	8.5 (215.9)	6.28 (159.51)	100 - 275	2.8 - 7.8
AP8409	4 (101.6)	8.5 (215.9)	6.28 (159.51)	275 - 350	7.8 - 9.9
AP8421	5 (127.0)	10.6 (270)	7.9 (201)	350-500	9.91 - 14.16
AP8404	6 (152.4)	13.1 (332.74)	11.1 (281.94)	500 - 650	14.2 - 18.4
AP8410	6 (152.4)	13.1 (332.74)	11.1 (281.94)	650 - 800	18.4 - 22.7
AP8405	8 (203.2)	18 (457.2)	14.44 (366.776)	800 - 1150	22.7 - 32.6
AP8406	8 (203.2)	18 (457.2)	14.44 (366.776)	1150 - 1400	32.6 - 39.6

### Installation Kits\*

Part Number	Size in (mm)	Adapts to Intake Size	
		in	mm
3918239 S	2 (50.8)	1/1.5/1.75	25.4/38.1/44.45
3918240 S	3 (76.2)	2/2.5/2.75	50.8/63.5/69.85
3904837 S	4 (101.6)	3/3.5/3.75	76.2/88.9/95.25
3904838 S	4 (101.6)	4/4.5/4.75/5	101.6/114.3/120.65/127.0
3904839 S	4 (101.6)	5.25/5.5/6	133.35/139.7/152.4
3946049 S	4 (101.6)	6.5	165.1
3946050 S	6 (152.4)	4	101.6
3946051 S	6 (152.4)	4/5	101.6/127.0
3904840 S	6 (152.4)	5/5.25/5.5	127.0/133.35/139.7
3904841 S	6 (152.4)	6.25/6.5/7	158.75/165.1/177.8
3905073 S	6 (152.4)	9	228.6
3946055 S	6 (152.4)	7/10/11	177.8/254.0/279.4
3946053 S	6 (152.4)	5	127.0
3946056 S	8 (203.2)	6/7	152.4/177.8
3904842 S	8 (203.2)	7/9	177.8/228.6
3905074 S	8 (203.2)	10/11	254.0/279.4
3946075 S	8 (203.2)	12/13	304.8/330.2
3946057 S	8 (203.2)	6/7	152.4/177.8
3946058 S	8 (203.2)	Special Kit	

\* Installation Kits do not contain pre-cleaners, only the necessary adapters for installing a pre-cleaner to the matched intake sizes.

### Rubber Reducing Adapters

Use when your pre-cleaner is larger than your air intake pipe.

Part Number	From in (mm)	To in (mm)
3939407 S	2 (50.8)	1.5 (38.1)
3939406 S	2 (50.8)	1.75 (44.45)
3939405 S	3 (76.2)	2 (50.8)
3939404 S	3 (76.2)	2.5 (63.5)
3939403 S	3 (76.2)	2.75 (69.85)
3946102 S	4 (101.6)	2.5 (63.5)
3946101 S	4 (101.6)	2.75 (69.85)
3946100 S	4 (101.6)	3 (76.2)
3946099 S	4 (101.6)	3.75 (95.25)
3939396 S	4 (101.6)	3.23 (82.04)
3939398 S	5 (127.0)	4.33 (109.98)
3946097 S	5 (127.0)	4 (101.6)

Part Number	From in (mm)	To in (mm)
3939399 S	5 (127.0)	4.5 (114.3)
3939400 S	5 (127.0)	4.75 (120.65)
3918245 S	6 (152.4)	5 (127.0)
3939401 S	6 (152.4)	5.25 (133.35)
3939402 S	6 (152.4)	5.5 (139.7)
3946095 S	7 (177.8)	6 (152.4)
3946094 S	7 (177.8)	6.25 (158.75)
3946093 S	7 (177.8)	6.5 (165.1)
3918243 S	8 (203.2)	7 (177.8)
3946088 S	9 (228.6)	8 (203.2)
3946104 S	11 (279.4)	10 (254.0)
3946103 S	13 (330.2)	12 (304.8)

### Metal Expansion Adapters

Use when your pre-cleaner is smaller than your intake. Metal Expansion Adapters are spun metal, designed to withstand the elements.

Part Number	From in (mm)	To in (mm)
3920523 S	4 (101.6)	5 (127.0)
3946110 S	4 (101.6)	6 (152.4)
3918242 S	6 (152.4)	7 (177.8)
3905073 S	6 (152.4)	9 (228.6)
3946109 S	7 (177.8)	9 (228.6)
3946108 S	8 (203.2)	13 (330.2)
3946106 S	8 (203.2)	16 (406.4)

### Rubber Expansion Adapters

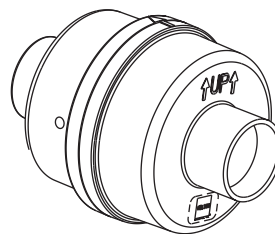
Use when your pre-cleaner is smaller than your intake. Rubber Expansion Adapters are rubber pieces, designed to withstand the elements.

Part Number	From in (mm)	To in (mm)
3946098 S	4.25 (107.95)	4.5 (114.3)
3946092 S	6.25 (158.75)	7 (177.8)

### Check Valve

Use when your application requires the use of a Check Valve with the Fleetguard™ Pre-cleaner.

Part Number	Inlet (OD) in (mm)	Outlet (OD) in (mm)
3956072 S	1.50 (38.10)	1.50 (38.10)



Material: Polypropylene (-40 to 180 °F (4.4 - 82.2 °C) temperature range)  
 Caution: Not intended for high temperature applications.

