Donaldson FILTRATION SOLUTIONS

Durable, Corrosion-Free Air Cleaner
Improved Reliability, Superior Engine Protection, Easiest Serviceability

The EPG air cleaner series, which incorporates Donaldson RadialSeal™ Sealing Technology, offers improved reliability and durability, reduced weight and costs, and better serviceability.

EPG air cleaners: conquer underhood space limitations; are corrosion-free and lighter in weight than traditional metal units; are more sturdy than ever before; and have a reliable, easy-to-service design.

The filter inside the air cleaner is also quite different from filters with metal end caps. The one-piece molded end caps encase the ends of the media and filter liners. The filter fits over the housing outlet tube, creating a reliable seal — without the hassle of separate sealing gaskets.

Of the six models, three include a primary filter and three include a primary and safety filter.

Whether you are going to service by miles, hours or restriction, keep accurate maintenance records and log or track your filter changes.

This EPG RadialSeal™ Air Cleaner is part of a complete Donaldson intake system. The entire engine air intake system is made of molded plastic. Between the intake scoop and the air cleaner are Donaldson Strata™ tubes, which provide pre-cleaning. Particulate from this stage is scavenged off and out through the exhaust system. In this system, the EPG air cleaner provides the second stage of cleaning.

The EPG Air Cleaner, which fits neatly under the hood, has RadialSeal™ Sealing Technology that delivers a reliable seal in rugged environments and quick filter change-out.

Provides up to 1325 cfm Airflow per Air Cleaner

Applications

- Provides up to 1325 cfm airflow per air cleaner — double airflow to engine by using two units
- Horizontal or vertical installation

Ideal for

- On-highway vehicles
- Marine and offshore equipment
- Light construction vehicles
- Agricultural vehicles
- Compressors and generator sets

Air Cleaner Features

- Durable plastic housing is corrosion-free and weighs less than metal air cleaners
- Very few service parts. Easy to service.
- No mounting bands required. Installs securely via molded-in mounting flange(s) with pre-drilled holes on the side of the housing.
- Available in three body diameters: 11" (279mm), 13" (330mm), 15" (381mm)
- Temperature tolerances:
  11" (279mm) dia: -40 °F to 220°F (-40 °C to 104 °C)
  13" (330mm) 15" (381mm) dia: -40 °F to 200 °F (-40 °C to 93 °C)

Filter Features

- RadialSeal™ Sealing Technology ensures reliability, is easy to service and makes the filter self-centering, self-aligning and self-sealing
- All models can accommodate safety filter
- Donaldson Blue® high efficiency and extended service filters — which capture sub-micron contaminant such as soot and carbon — are available for some models (see service parts listing on page 83)

Primary or main filter

Air cleaner housing

Cover

Safety filter (fits inside the primary filter) — not available in all models

Outlet to Engine

Access cover for filter service

Air Inlet

The Better Alternative to Drain Holes

The Donaldson Vacuator™ Valve is an optional accessory for the EPG that expels water from the air cleaner **before** any reaches the filter — thereby extending filter life. Bare drain holes can clog or take in back splash, but the Vacuator™ Valve never does. The P525956 is a 1" (25mm) diameter model designed for over-highway applications.

Installation is fast and easy:

1. Locate the lowest point of the air cleaner to allow proper drainage through Vacuator Valve.
2. Remove filter(s) before drilling.
3. Drill a 1" (25mm) hole centered at the lowest point of the air cleaner as shown in illustration. Remove debris from drilling.
4. Install Vacuator Valve (P525956) by pushing it into the hole.
5. Reinstall filter(s), reattach cover.

EPG Air Cleaners

Donaldson. FILTRATION SOLUTIONS
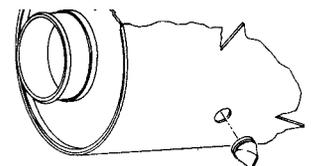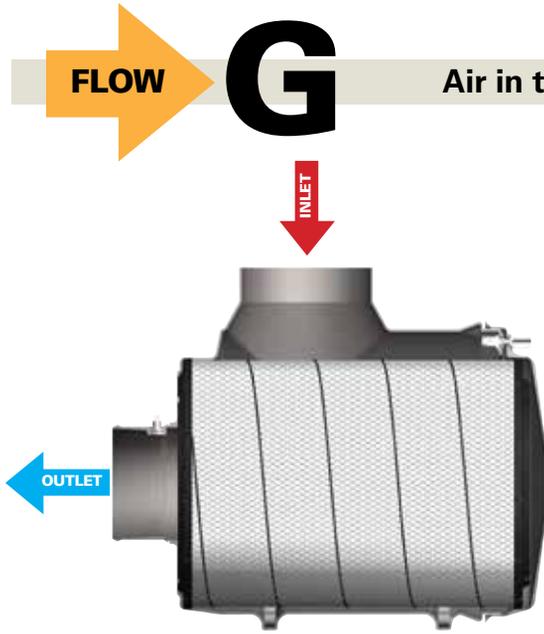
FLOW **G** **Air in the Side, Out the End** (standard flow filters)

INLET

OUTLET

Initial Airflow Restriction*

| Airflow	Air Cleaner Model
MODELS WITH PRIMARY & SAFETY FILTER	
450 cfm @ 5.5" H_2O	G110120
650 cfm @ 6" H_2O	G130089
800 cfm @ 5.5" H_2O	G150049
MODELS WITH PRIMARY FILTER	
625 cfm @ 5.5" H_2O	G110119
950 cfm @ 10" H_2O	G130079
1325 cfm @ 8" H_2O	G150048

*Results generated using laboratory testing pursuant to ISO5011. Actual performance during use may vary depending on multiple factors, including specific product configuration, external conditions and application.

EPG Specification Illustrations

11" Models

INLET
B
G
OUTLET
F
D
E
C
A
.350 DIA 5 HOLES
12.12
5.55
3.75
3.75

13" & 15" Models

B
L
.400 DIA 2 HOLES (2-PLCS)
J
K
F
E
D
INLET
OUTLET
A
C
G
.75
I
H
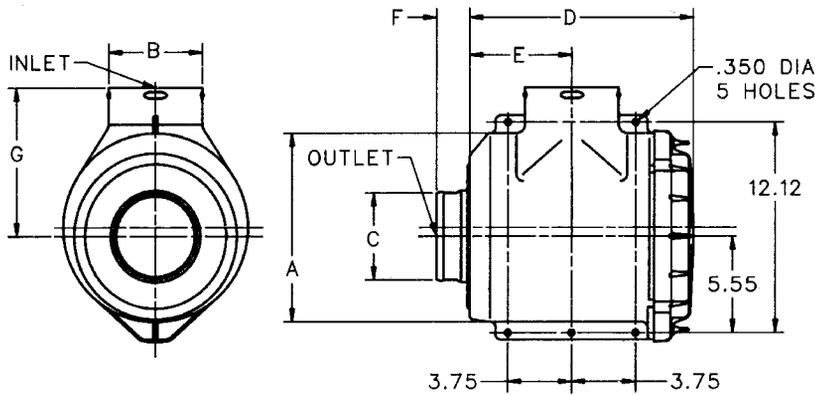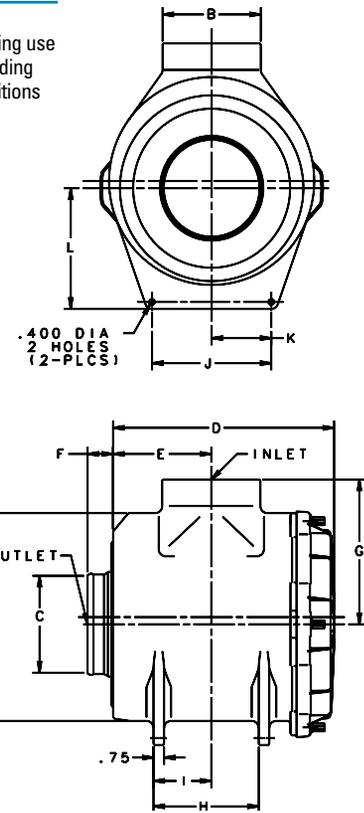
EPG Specifications

Air Cleaner Model	Body Dia. (A)	Inlet Dia. (B)	Outlet Dia. (C)	Length (D)	(G)	Outlet Length (F)	(E)	(H)	(I)	(J)	(K)	(L)
G110119	10.86" 276mm	5.50" 140mm	5.00" 127mm	12.89" 327mm	8.56" 217mm	1.95" 50mm	6.00" 152mm	See drawing above for dimensions on 11" models				
G110120	10.86" 276mm	5.50" 140mm	5.00" 127mm	12.89" 327mm	8.56" 217mm	1.95" 50mm	6.00" 152mm	See drawing above for dimensions on 11" models				
G130079	12.62" 321mm	6.00" 152mm	5.00" 127mm	16.02" 407mm	9.51" 242mm	3.00" 76mm	5.66" 144mm	7.75" 197mm	2.00" 51mm	8.00" 203mm	4.00" 102mm	6.00" 152mm
G130089	12.62" 321mm	6.00" 152mm	5.00" 127mm	16.02" 407mm	9.51" 242mm	3.00" 76mm	5.66" 144mm	7.75" 197mm	2.00" 51mm	8.00" 203mm	4.00" 102mm	6.00" 152mm
G150048	14.62" 371mm	7.00" 178mm	7.00" 178mm	15.75" 400mm	10.19" 259mm	1.82" 46mm	7.00" 178mm	7.50" 191mm	4.12" 105mm	8.50" 216mm	4.25" 108mm	8.00" 203mm
G150049	14.62" 371mm	7.00" 178mm	7.00" 178mm	15.75" 400mm	10.19" 259mm	1.82" 46mm	7.00" 178mm	7.50" 191mm	4.12" 105mm	8.50" 216mm	4.25" 108mm	8.00" 203mm

EPG Service Parts & Accessories

G110119 EPG

Cover	P529151
Elbow, 45º	P109021
Elbow, 90º	P107844
Elbow, 90º reducing	P143895
Fastener kit	X006452
Filter, primary-Donaldson Blue®	DBA5067
Filter, primary - SM	P527484 3
Filter, safety	P527680 4
Hump hose	P105610
Informer™ indicator 25" H$_2$O	X002277
Inlet hood, plastic	H000604
Outlet band clamp	P148345
Thumb screw	P527435
Vacuator™ Valve	P525956

G110120 EPG

Cover	P529151
Elbow, 45º	P109021
Elbow, 90º	P107844
Elbow, 90º reducing	P143895
Fastener kit	X006452
Filter, primary-Donaldson Blue®	DBA5067
Filter, primary - SM	P527484 3
Filter, safety	P527680 3
Hump hose	P105610
Informer™ indicator 25" H$_2$O	X002277
Inlet hood, plastic	H000604
Outlet band clamp	P148345
Thumb screw	P527435
Vacuator™ Valve	P525956

G130079 EPG

Cover	P533916
Elbow, 45º	P109021
Elbow, 90º	P107844
Elbow, 90º reducing	P143895
Fastener kit	X006452
Filter, primary - SM	P533930 3
Filter, primary-Donaldson Blue®	DBA5109
Filter, safety	P533890 4
Hump hose	P105610
Informer™ indicator 25" H$_2$O	X002277
Inlet hood, metal	H000275
Inlet hood, plastic	H000606
Outlet band clamp	P148345
Thumb screw	P527435
Vacuator™ Valve	P525956

G130089 EPG

Cover	P533916
Elbow, 45º	P109021
Elbow, 90º	P107844
Elbow, 90º reducing	P143895
Fastener kit	X006452
Filter, primary - SM	P533930 3
Filter, primary-Donaldson Blue®	DBA5109
Filter, safety	P533890 3
Hump hose	P105610
Informer™ indicator 25" H$_2$O	X002277
Inlet hood, metal	H000275
Inlet hood, plastic	H000606
Outlet band clamp	P148345
Thumb screw	P527435
Vacuator™ Valve	P525956

G150048 EPG

Cover	P523096
Elbow, 45º	P105548
Elbow, 90º	P105536
Fastener kit	X006452
Filter, primary-Donaldson Blue®	DBA5069
Filter, primary - SM	P527682 3
Filter, safety	P527683 4
Hump hose	P105613
Informer™ indicator 25" H$_2$O	X002277
Inlet hood, metal	H000339
Inlet hood, plastic	H000607
Outlet band clamp	P148348
Thumb screw	P527435
Vacuator™ Valve	P525956

G150049 EPG

Cover	P523096
Elbow, 45º	P105548
Elbow, 90º	P105536
Fastener kit	X006452
Filter, primary - SM	P527682 3
Filter, primary-Donaldson Blue®	DBA5069
Filter, safety	P527683 3
Thumb screw	P527435
Hump hose	P105613
Informer™ indicator 25" H$_2$O	X002277
Inlet hood, metal	H000339
Inlet hood, plastic	H000607
Outlet band clamp	P148348
Vacuator™ Valve	P525956

Air Inlet

Access Cover for filter service

Thumb Screw

Air Cleaner Housing

Primary Filter

Outlet to Engine

Molded-in Mounting Flange

Thumb Screw

Safety Filter is inside Primary Filter
(not visible in this photo)

11" Model Shown

X006452 Fastener Kit
Includes Fasteners and 1 Thumb Screw

NOTES:
3 = Shipped with air cleaner initially
4 = Safety filter is designed to fit this air cleaner, but was not originally shipped with it (note that adding a safety filter will decrease the maximum airflow throughput)

SM = Scheduled Maintenance
Donaldson Blue® = High Efficiency, Extended Service

EPG Air Cleaners
Service Instructions

Donaldson
FILTRATION SOLUTIONS

This servicing information is provided as a best practices guide. It is not intended to replace or supersede the service instructions supplied by your engine or vehicle manufacturer.

1 Check the Restriction

Measure the restriction of the air cleaner with a Donaldson filter service indicator, service gauge or water manometer. Use the restriction tap provided on the air cleaner or at the transfer pipe. Replace the filter only when the restriction level has reached the maximum recommended by the engine or equipment manufacturer or on a regular service schedule.

2 Remove the Filter

Unfasten or unlatch the service cover. The RadialSeal™ filter fits tightly over the outlet tube to create the critical seal, so there will be some initial resistance, similar to breaking the seal on a jar. Gently move the end of the filter back and forth to break the seal. Rotate while pulling the filter straight out. Avoid knocking the filter against the housing.

3 Clean Out the Vacuator™ Valve

Remove the Vacuator Valve and clean out any dust found in the drop tube. Reinstall Vacuator Valve or replace if found worn or damaged. If your air cleaner is equipped with a Vacuator Valve, visually check and physically squeeze it.
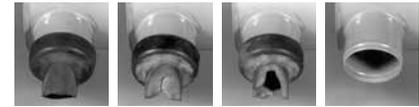
Make sure the valve is flexible and not inverted, damaged or plugged. Replace it if damaged or if it looks like any of these images. A damaged or missing Vacuator™ Valve will disrupt the designed flow of air through the air cleaner.

4 Inspect the Old Filter

Inspect the old filter for any signs of leaks. A streak of dust on the clean side of the filter is a telltale sign. Eliminate any source of air leaks before installing the new primary filter.

5 Visually Inspect the Safety Filter

If your air cleaner has a safety filter, do a visual inspection for damage. Verify that the safety filter is properly seated in the housing. Do not remove the safety filter unless it is damaged or due for replacement. The safety filter should be replaced every three primary filter changes. When you remove the safety filter, replace it immediately or make sure you cover the air cleaner outlet tube to avoid admitting any contaminant.

6 Clean Both Surfaces of the Outlet Tube

Use a clean damp cloth to wipe the filter sealing surface and the inside of the outlet tube. Contaminant on the sealing surface could hinder an effective seal and cause leakage.

7 Inspect the New Filter

Visually inspect the new filter, paying special attention to the sealing area which is inside the open end.

As you inspect the filter's RadialSeal take care not to wipe the sealing surface. The factory has placed a dry lubricant on the seal which aids in installation and removal. NEVER install a damaged filter.

8 Insert the New Filter Properly

If you're servicing the safety filter at this change-out, carefully seat it into position before installing the primary filter. Seat the filter by hand, making certain it is completely inserted into the air cleaner housing before securing the cover in place. To complete a tight seal, apply pressure by hand at the outer rim of the filter, not the flexible center.

Never use the service cover to push the filter into place since no cover pressure is required to hold the seal. Using the cover to apply pressure could damage the housing and cover fasteners, and will void the warranty.

If the new filter is not fully in place, remove the cover and push the filter further into the air cleaner with hand pressure on the outer rim. The cover should then go on with no extra force. Then secure the service cover.

9 Check Connectors for a Tight Fit

Make sure restriction indicators are reset and in proper working order.

Verify that all mounting bands, clamps, bolts, and connections in the entire air cleaner system are tight.

Check for holes in piping and repair or replace as needed. Any leaks in the intake piping will admit dust directly to the engine.