



SCA Coolant Filtration Products



ENGINE COOLANT

Filters

- Complete line of filters with various amounts of Supplemental Coolant Additive (SCA) fit the majority of heavy-duty diesel engines and service requirements.
- Heavy-duty design works in a wide variety of operating environments.
- Design features include a heavy-duty thread plate, a seal designed for extreme cold and heat, filter media that is more durable, and a unique center tube that increases flow and adds structural strength.

Maintenance Chemicals and Test Kits

- Supplemental Coolant Additive (SCA) is available in many sizes, from a pint to a 55-gallon drum.
- Quick, one-minute test kit helps you keep the cooling system chemically balanced.

Head and Bracket for System Retrofits

Donaldson

SCA Filters

The coolant filter helps clean the cooling system of rust, scale, and other debris that might accumulate and cause damage to the engine.



Filters that contain Supplemental Coolant Additive (SCA) chemicals have the added function of providing protection – either by being the only SCA in the system, or by providing a specific number of SCA units to bring the additive level into proper balance.

The filter media in Donaldson coolant filters is resin treated for structure and strength. Resins eliminate fiber swelling caused by water, and consequently prevent filter plugging. The media itself is a cellulose fiber with a filtration efficiency of 95% at 40µ.

Coolant system filters are typically partial-flow (bypass) filters, with less than 10% of the coolant flow circulating through the filter at any given time.

Remote Mount Head and Bracket

When you need a replacement to your existing head or if you want to equip your vehicle with a coolant filter, Donaldson can help.

The Donaldson remote mount head is designed to fit all our spin-on filters with a 11/16”-16 threads. The bracket can be mounted to the head of the fire wall or some other off-engine location.

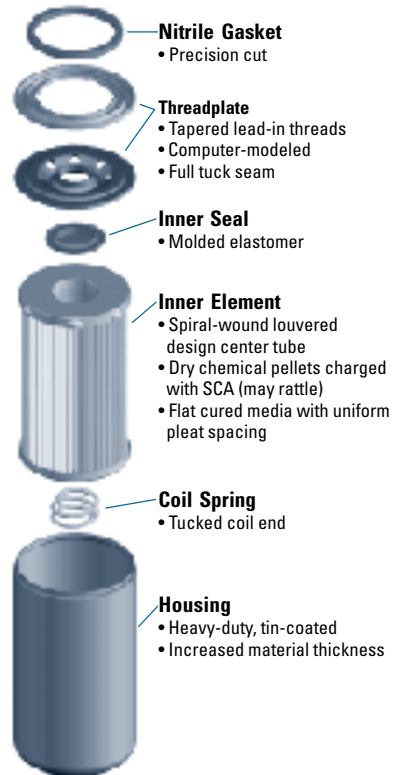


Part No. P174766 - Remote Mount Head



Part No. P174767 - Mounting Bracket

Filter Design Features



Coolant Filter Specifications

Common thread size 11/16”-16

O.D. inch mm	Length inch mm	Charged With	Part Number	----- Competitive Cross Reference -----			
				Fleetguard	Baldwin	Fram	Luber-finer
3.7 93	4.2 107	4 units of SCA	P554071	WF2051	BW5137	PR3304	LFW4071, LFW4744
3.7 93	4.2 107	6 units of SCA	P554072	WF2052	BW5138	PR3758	LFW4072, LFW4018
3.7 93	5.4 136	No additives	P554685	WF2077	BW5134	PR3383	LFW4685
3.7 93	5.4 136	8 units of SCA	P554073	WF2053	BW5139	PR3414	LFW4073, LFW4016
3.7 93	5.4 136	12 units of SCA	P554074	n/a	n/a	PR3753	LFW4074, LFW4013
3.7 93	5.4 136	15 units of SCA	P554075	WF2054	BW5140	n/a	LFW4075
3.7 94	5.4 138	Timed-Release	P552088*	WF2131	BW5200	n/a	n/a
4.2 108	5.8 147	23 units of SCA	P552055	WF2055	n/a	n/a	LFW2055

* also NALCO NF2088

OE Part Number	Thread Size	O.D.		Length		Charged With	Part Number	---- Competitive Cross Reference ----		
		inch	mm	inch	mm			Fleetguard	Baldwin	Luber-finer
Mack 25MF435	3/4”-20	3.7	93	5.4	136	8 units of SCA	P554860	n/a	BW5178	LFW4860
Mack 25MF430	1”-16	4.2	108	5.8	147	11 units of SCA	P554422	n/a	BW5179	LFW4422
Volvo 1661964, 1699830	m16 x 1.5	3.7	93	5.4	136	4 units of SCA	P552096	WF2096	BW5141	LFW5141
Volvo 3945411	m16 x 1.5	3.7	93	5.4	136	8 units of SCA	P554019	WF2108	BW5142	n/a

Timed-Release Filter

Designed to maintain a consistent, optimal protection level over one year – or 120,000 miles or 3,000 hours, whichever comes first – the P552088 filter is for cooling systems with 10- to 20-gallon capacity. Over the year, the filter releases the equivalent of 48 units of coolant additive.



Improved structural features ensure durability

over time: heavier gauge housing, internal coating to prevent corrosion, and a heavier gasket retainer that resists vibration.

When using a timed-release filter, Donaldson recommends testing your cooling system twice a year. This filter should be changed once a year.

Cooling System Maintenance Choices

The Donaldson coolant filter line allows you to choose the method that suits your maintenance practices and schedules.

- 1** Maintain your cooling system with a filter change, using a filter with SCA inside (charged).
- 2** Use a filter without chemical charge and maintain proper concentrations by adding SCA liquid in quantities as prescribed by the testing.
- 3** Use our timed-release filter, which is designed for extended service interval programs.

SCA Test Kit and Additive

Test Kit Helps Keep System in Balance

This handy test kit helps you monitor your coolant additive in just one minute!



Part No. X007103 contains 50 test strips



Coolant Test Kit Instructions Poster Item No. F114008



SCA Liquid Additive

Liquid Measure	Units	Part No.
1 Pint / 0.47 L	5	X006136
1 Quart / .95 L	10	X007036
2 Quarts / 1.89 L	20	X007037
1 Gallon / 3.79 L	40	X007038
5 Gallons / 18.93 L	200	X006137
Drum: 55 Gal / 208.2 L	2200	X006138

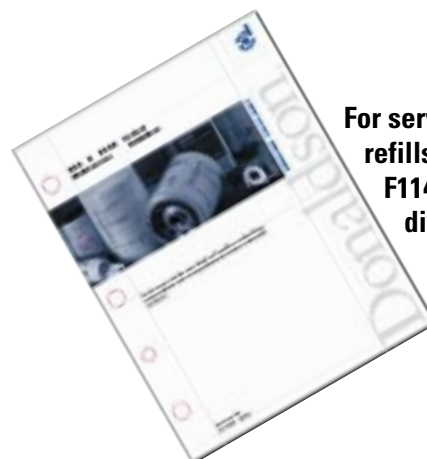
SCA Composition

Nitrite: This is the key chemical component in SCA cooling system treatment. Nitrite provides protection against cavitation erosion, and inhibits corrosion.

Borate: Functions as an alkaline buffer to prevent acidity. Controls pH.

Nitrate: Provides corrosion protection to aluminum and solder.

MBT (Mercaptabenzothiazole): Provides a plating effect on all copper and copper alloys, protecting them from direct contact with coolant and oxygen, and subsequent corrosion.



For service guidelines on coolant system refills and flushes, request document F114006 from Donaldson or your local distribution outlet.



Contact your local Donaldson distribution outlet to find out more about Donaldson's full line of air, fuel, coolant and lubrication products.



Donaldson®

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