



## Direct Spin-On LFS

With FTG Lubrication Filtration Systems, you can save your engine, save time, save money, and even help save the environment. The revolutionary Full-Flow Cleanable Series is available in configurations that spin directly onto existing engine mounting heads or in remote-mount models. They replace lube oil and other filters with a cleanable stainless steel wire cloth filter. As standard equipment, an integral service indicator light signals the operator that the reusable filter has reached capacity. A quick wash-up in solvent or aqueous solution and you're back in service.

## Full-Flow Series Benefits

- 1 No more disposal worries
- 2 Eliminates filter inventory
- 3 Valuable diagnostic tool
- 4 Extends engine life
- 5 Quick and easy maintenance
- 6 One-time investment
- 7 Full-flow with built-in bypass
- 8 Indicator light signals the need for service

The FTG spin-on oil filter threads directly onto virtually all engine lube oil heads. Clean-up of the reusable wire cloth filter is straightforward; simply remove the oil filter drain plug in the bottom of the filter end cap to drain dirty oil. Then unscrew the filter end cap and drop the dirty filter screen out, clean and replace.

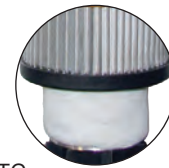
It's the fastest, most innovative and environmentally friendly oil filter change in the business.



LFS 700CO Series

## Combination Cleanable/ Bypass Series

Extended oil drain intervals\* are now possible with the FTG LFS 700CO Series Combination Oil Filter. Servicing of the element is a simple and straightforward process, thanks to a removable end cap with drain plugs. All of this, in addition to longer engine life because of the one micron high efficiency bypass filter.



\* Extended oil drain intervals may be possible when used with oil analysis.



Spins directly onto existing filter heads. LFS spin-on models are available for most engines, see chart below.

The rugged heat-treated aluminum housing is designed for years and years of service. A high-quality anodized finish means it will not rust or corrode.

Stainless steel wire cloth with special co-pleat design for durability, efficiency, and long life.

(Shown: LFS 700LS dual element, wire cloth filter for Cummins engines using LF3000 combination full-flow/bypass filter).

Standard light feature (on LS models only) signals when it's time for service and eliminates unnecessary downtime.



Ten Minute Delay Service Filter Indicator (optional) LFS RK46134.

## Direct Spin-on Full-Flow Application Guide

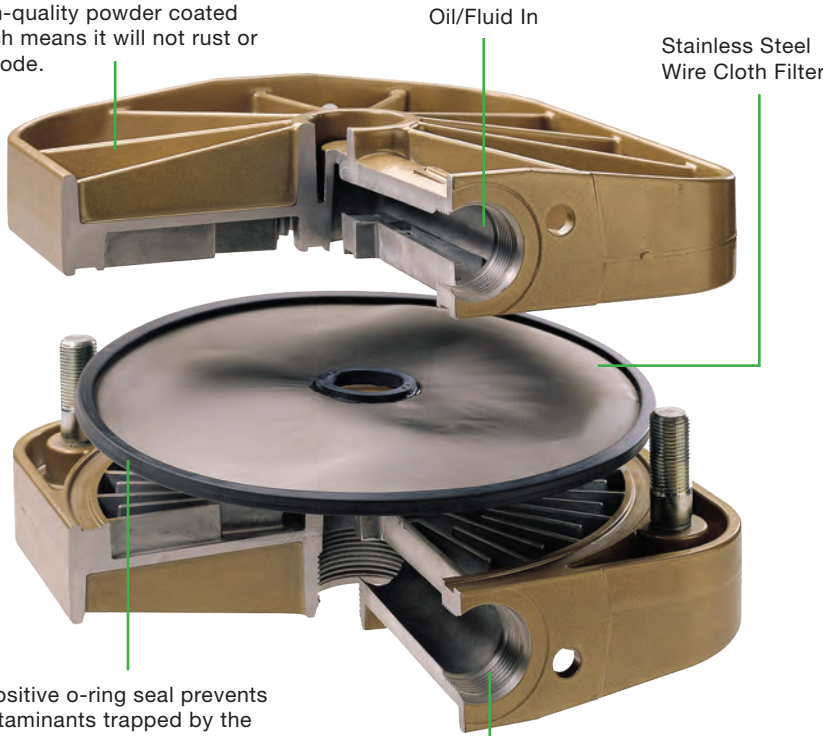
Application	Cummins	Cummins/Detroit	Detroit	Caterpillar	Isuzu	Caterpillar	International**	International** FORD
FTG Filter Assembly	LFS 700LS	LFS 703LS LFS 703CO	LFS 705LS KT LFS 705CO	LFS 707LS KT LFS 707CO	LFS 710LS LFS 710CO	LFS 712LS LFS 712CO	LFS 714LS	LFS 718LS LFS 718CO
	All Engines (using LF-3000 B/P filter element) L10, M11 NT Big Cam IV Series QSK19	C Series, L10, Big CAM IV, 230, 240, NTC-250, 290, 300, 350, 355, 370, 400, All KT, All 53, 71, 6v92, 149 Series, and Pre-1996 Series 60	Series 50 & 60, 1993 and on*	3116, 3208T, 3304, 3306, 3126 MACK TRUCK EM-6, EN ENDT, EM-7* Volvo FLT	Mitsubishi FK & FM Series Truck GMC / Isuzu FVR with 8.4 Ltr. Volvo with John Deere 744E Industrial Isuzu Engine	3176, 3406, 3408, 3412, C-10, C-12, C-15, C-16	DT-466, 1994 and on	6.9L IDI, 7.3L IDI, 7.3L DI Power Stroke T444E
Filter References Data Cross-Over								
Fleetguard	LF-3000	LF670 LF3363^	LF3620^^ LF3671^	LF667 LF3379^	LF777	LF691A LF3566^	LF3640~	LF3344 LF3630
Baldwin	BD103	B95-MPG^ B196	B495^^	B7600 B75	B7019	B99	B7030	B134 B7039
Wix	51748	51812^ 51970	51971^^	51791 51788^	51728 51749	51792 51722	51799	51742 51734
Cummins	3318853	3313279						
Caterpillar				1R0739 1R0714		1R0716		
Detroit		23518524	25014504					
Isuzu					11324010521			
Mack				485-GB-3191				
International**							1819452-C1	1804442C1
Thread Size	2-1/4 x 12 UN	1-1/2 x 12 UN	1-5/8 x 12 UN	1-1/8 x 16 UN	1-3/8 x 16 UN	1-1/2 x 16 UN	M36 x 1.5	1-1/2 x 16

\* Some Series 50 and 60 Detroit Diesel engines and some Mack engines use 2 filter assemblies. The LFS KT kit provides 2 filter assemblies. \*\* Formerly Navistar  
 ^ 3406C - 3176/22 PSI ^ High-efficiency/Upgrade synthetic media ^^ Requires 2 filter assemblies ~ No by-pass in this filter

## Remote-Mount LFS

The FTG Remote-Mount LFS is ideal for marine applications because it can be conveniently located for easy service. Once installed, the remote-mount LFS eliminates the need to reach inaccessible on-engine standard oil filters.

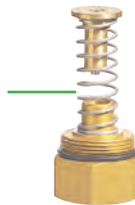
The rugged die-cast aluminum construction is designed for years and years of service. A high-quality powder coated finish means it will not rust or corrode.



A positive o-ring seal prevents contaminants trapped by the wire cloth filter from escaping downstream where they can damage precision components. When the filter requires service, the service indicator light alerts the operator.

Oil/Fluid Out

A bypass relief valve lowers the restriction when the wire cloth filter is plugged. Warning light is included.



	LFS35	LFS60	LFS90
<b>Maximum Flow Rate</b>	6 GPM (23 LPM)	20 GPM (76 LPM)	45 GPM (170 LPM)
<b>Maximum PSI</b>	150 PSI (10.3 bar)	150 PSI (10.3 bar)	150 PSI (10.3 bar)
<b>Height</b>	2.45 in. (6.22 cm)	3.50 in. (8.89 cm)	4.75 in. (12.07 cm)
<b>Width</b>	3.63 in. (9.22 cm)	6.00 in. (15.24 cm)	9.62 in. (24.43 cm)
<b>Depth</b>	3.63 in. (9.22 cm)	6.00 in. (15.24 cm)	9.50 in. (24.13 cm)
<b>Weight</b>	1.21 lbs (0.55 Kg)	4.31 lbs (1.95 Kg)	10.60 lbs (4.81 Kg)
<b>Ports</b>	3/8" NPT	1 1/16"-12 (SAE J1926)	1 5/16"-12 (SAE J1926)
<b>Micron Availability</b>	28, 40	28, 40, 60, 115	28, 40, 60, 115
<b>Service Indicator Light</b>	Yes	Yes	Yes
<b>Hose Kit</b>	LFS35HK	LFS60HK	LFS90HK



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Adapter To Engine  
Threads Not Shown

Port Threads

### Spin-On Oil Filter Adapter & Replacement O-Ring Kits

Complete Part No. Kit	Replacement Seal Kit* Part No.	Adapter to Engine Threads	Adapter In/Out Port Threads
LFS CHV-A	N/A	1/4"-20 (2) 5/16"-18 (2)	1/2"-14 NPTF
LFS 112-36A	RK46169	1"-12	1/2"-14 NPTF
LFS 11212-48A	RK46045	1 1/2"-12	1 5/16"-12 SAE
LFS 11216-41A	RK46170	1 1/2"-16	1/2"-14 NPTF
LFS 11216-48A	RK46045	1 1/2"-16	1 5/16"-12 SAE
LFS 11216-50A	N/A	1 1/2"-16	1 5/16"-12 SAE
LFS 116-36A	RK46169	1"-16	1/2"-14 NPTF
LFS 11816-36A	RK46169	1 1/8"-16	1/2"-14 NPTF
LFS 11816-48A	RK46045	1 1/8"-16	1 5/16"-12 SAE
LFS 1316-36A	RK46169	1 3/16"-16	1/2"-14 NPTF
LFS 13816-48A	RK46045	1 3/8"-16	1 5/16"-12 SAE
LFS 15812-48A	RK46045	1 5/8"-12	1 5/16"-12 SAE
LFS1815-31A	RK46169	18 mm X 1.5	1/2"-14 NPTF
LFS 2015-31A**	RK46169	20 mm X 1.5	1/2"-14 NPTF
LFS 2015-36A	RK46169	20 mm X 1.5	1/2"-14 NPTF
LFS 2015-31A	RK46169	22 MM X 1.5	1/2"-14 NPTF
LFS 3416-31A	RK46169	3/4"-16	1/2"-14 NPTF
LFS 5818-31A	RK46169	5/8"-18	1/2"-14 NPTF

\*O-ring or gasket should be replaced if adapter is removed from engine, after being in service. RK46169: Gasket, 2.48" I.D. RK46045: O-ring, 3.73" I.D. RK46170: Gasket, 3.10" I.D.