



*"The First in Synthetics"®*

**Engineered for Outstanding  
Oil Filtration Efficiency**

### PRODUCT DESCRIPTION

The AMSOIL By-Pass Oil Filter provides the best possible filtration protection against wear, oil degradation, rust and corrosion. Working in conjunction with the engine's full-flow oil filter, the AMSOIL By-Pass Filter operates by filtering oil on a "partial-flow" basis. It draws approximately ten percent of the oil at any one time and traps the extremely small, wear-causing contaminants and water that full-flow filters can't remove. The AMSOIL By-Pass Filter typically filters all the oil in the system several times an hour, so the engine continuously receives analytically clean oil.

Diagram No. 1 - AMSOIL By-Pass  
Oil Filtration System

Use art from last job

**PRINTS BLUE**

### AMSOIL By-Pass Oil Filtration System

#### Reduces Wear

Approximately 60 percent of all engine wear is caused by dirt particles in the 5 to 20 micron range. These particles can get inside the precision clearances between engine components and cause severe damage. While full-flow oil filters generally stop contaminants no smaller than 25 to 40 microns, the AMSOIL By-Pass Filter effectively stops particles smaller than one micron in size, substantially reducing engine wear.

#### Prevents Oil Degradation, Rust and Corrosion

Water enters motor oil as a combustion by-product or as a condensate. Water contamination of the motor oil can cause extreme engine damage. Water causes metal surface rust and corrosion, which increases friction and wear and deteriorates the close-fitting tolerances between

## BY-PASS OIL FILTER

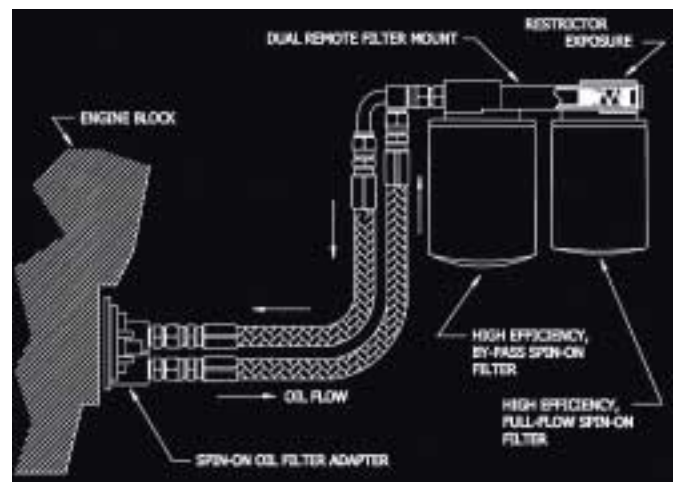
engine components. In addition, water reacts with other oil contaminants to form corrosive acids, which also damage metal components. The AMSOIL By-Pass Filter removes water, reducing the risk of oil degradation, engine rust and corrosion.

#### Extends Oil Drain Intervals

Because the AMSOIL By-Pass Oil Filter removes water and particles smaller than one micron, it significantly increases the time oil can safely be left in the engine. In fact, engines using AMSOIL Synthetic Motor Oil and an AMSOIL By-Pass Oil Filter routinely show much lower rates of engine wear—even when the oil is used for significantly longer drain intervals—than engines using conventional products and conventional oil drain intervals. That saves motorists time and money and helps protect the environment by creating substantially less used oil.

#### Dual Remote Filter System

The AMSOIL Dual Remote Oil Filtration System converts an engine's full-flow oil filter system into a full-flow/by-pass oil filtration system by attaching an AMSOIL Full-Flow Oil Filter and AMSOIL Spin-On By-Pass Oil Filter onto a remote mount. The Dual Remote System provides superior filtration efficiency, increased oil capacity and improved oil filtration accessibility.



**AMSOIL Dual Remote Oil Filtration System**

# AMSOIL By-Pass Filter Replacement Chart

Type of Unit	Stock Number	Size (Approx.)	Additional Oil Needed	Crankcase Capacity <sup>a</sup>	Normal Service Life <sup>b</sup>	Applications
SINGLE SPIN-ON ELEMENT  (Used with BMK-11 or any DUAL REMOTE SYSTEM)	BE-90	Diam. = 4.5 in. Height = 6 in. With Mnt. = 8 in.	1 qt.	Up to 9 qt.	25,000 miles or 1 year  (approximately 4 times normal drain interval)	Pleasure Vehicles, Light Trucks and Smaller Commercial Applications
	BE-100	Diam. = 4.5 in. Height = 8 in. With Mnt. = 10 in.	1.5 qt.	up to 15 qt.		
	BE-110	Diam. = 4.5 in. Height = 10 in. With Mnt. = 12 in.	2 qt.	up to 21 qt.		
DUAL SPIN-ON ELEMENT  (Used with BMK-12 DUAL-GUARD)	(2) BE-90's	Width = 5 in. Length = 9.5 in. Height = 8 in.	2 qt.	15 to 18 qt.	2 times normal oil drain interval	Large Trucks, Construction, Farm and Industrial Equipment  (minimum sump capacity = 15 qt.)
	(2) BE-100's	Width = 5 in. Length = 9.5 in. Height = 10 in.	3 qt.	15 to 30 qt.		
	(2) BE-110's	Width = 5 in. Length = 9.5 in. Height = 12 in.	4 qt.	15 to 42 qt.		
LARGE CANSTR. BY-PASS FILTERS	BE-50	Diam. = 7.5 in. Length = 10 in.	8 qt.	15 to 30 qt.		
	BE-75	Diam. = 7.5 in. Length = 15 in.	12 qt.	15 to 42 qt.		

a. Filters can be used on sumps of larger capacity but then require more frequent replacement. Full details on service life included with filter installation instructions.

b. Data determined in a non-turbo gasoline engine with AMSOIL 100% Synthetic Motor Oil and AMSOIL Full-Flow Oil Filter. Service life varies in other engines (turbo and diesel) and with other oils and filters.

## NOTES:

1. Special adapters and hardware may be required for some installations.
2. Contact AMSOIL INC. Technical Service for instructions before installing on vehicles with cast aluminum oil pans.

## APPLICATIONS

### Vehicles with sump capacities up to and including 15 qts

#### Mount

BMK-11

BMK-13

BMK-15

(complete with filters)

BMK-16

(complete with filters)

#### Filter

Any size AMSOIL Spin-On By-Pass Filter Element

Any size AMSOIL Spin-On By-Pass Filter Element

ASF-26 and BE-100 Spin-On By-Pass Filter Element

ASF-26 and BE-100 Spin-On By-Pass Filter Element

### Vehicles with sump capacities greater than 15 qts

#### Mount

BMK-12 Dual Gard

#### Filter

Any size AMSOIL Spin-On By-Pass (mount requires 2 filters)

AMSOIL products and Dealership information are available from your local AMSOIL Dealer.

