

## Bypass Oil Filtration Systems &amp; Mounts

# AMSOIL DUAL-GARD(R) BYPASS SYSTEM

Product Code: BMK22-EA



## Product Description

The AMSOIL DUAL-GARD Bypass System adds a second layer of oil filtration to your engine, capturing the ultra-fine contaminants that standard full-flow filters simply cannot touch. It is designed for diesel trucks, heavy equipment, fleet vehicles, and any application where extended drain intervals and long engine life are the priority.

Full-flow oil filters do a necessary job, but they have a limitation built into their design. They must allow oil to pass through quickly enough to keep up with engine demand, which means particles below a certain size pass right through. Over time, those sub-micron contaminants circulate continuously, accelerating wear on bearings, rings, and other critical surfaces. Diesel engines running high soot loads, like the Ford 6.7L Power Stroke or Duramax platforms, are especially vulnerable.

### REMOVES WEAR-CAUSING PARTICLES FULL-FLOW FILTERS MISS

The DUAL-GARD system works alongside your engine's existing full-flow filter by drawing approximately 10 percent of oil pump capacity at any given time and routing it through an AMSOIL Ea Bypass Filter (EaBP). This partial-flow design targets the extremely small, wear-causing contaminants that full-flow filters are not designed to catch, including soot. Because the system cycles all of the oil in the engine several times per hour, the engine continuously operates on analytically clean oil. The result is measurably less abrasive wear on internal components.

### EXTENDS OIL AND FILTER SERVICE LIFE

Cleaner oil lasts longer. By continuously removing fine particulate and soot, the bypass system slows the rate of oil degradation, which directly supports extended drain intervals. Depending on the filter element selected, service intervals for the Ea Bypass Filters range from 60,000 miles (EaBP90) to 80,000 miles (EaBP110), or up to 1,200 hours and 2 years, whichever comes first. For diesel truck owners running AMSOIL synthetic motor oil with oil analysis programs, this system is a practical path to maximizing drain intervals while keeping wear metals in check.

### INCREASED FILTRATION CAPACITY WITH DUAL-ELEMENT DESIGN

Unlike single-element bypass setups, the DUAL-GARD mount accepts two spin-on bypass filter elements simultaneously. This doubles the filtration capacity and dirt-holding volume compared to a single-filter bypass system. For engines with larger oil capacities, from 15 quarts up to 42 quarts, this additional capacity is meaningful. The system also adds approximately 2 quarts of oil to total system volume, which helps with heat dissipation on hard-working engines.

### FLEXIBLE ELEMENT SIZING FOR YOUR APPLICATION

AMSOIL offers three Ea Bypass Filter element sizes to match your engine's oil capacity. Engines holding 15 to 18 quarts pair well with two EaBP90 elements. Oil systems in the 15 to 30 quart range are best served by two EaBP100 elements. Larger systems up to 42 quarts should use two EaBP110 elements. Selecting a larger element than recommended extends the service interval, while a

smaller element shortens it. The EaBP120 is not compatible with this system.

### STRAIGHTFORWARD INSTALLATION ON MOST ENGINES

The system connects to the engine through a pressurized oil port, typically the oil pressure sending unit location, and returns oil through an existing crankcase or oil pan port. The kit includes the dual-element filter mount, mounting brackets, 15 feet of 1/4-inch hose, JIC hose fittings, and all necessary mounting hardware. Optional fittings for alternative return line routing, including a self-tapping hollow bolt (BP40) for stamped oil pans and a filler cap return fitting (BP89), are available separately. Filter elements are also sold separately.

### COMPATIBILITY AND APPLICATIONS

The BMK22 system is compatible with a wide range of gasoline and diesel engines used in pickup trucks, medium-duty trucks, heavy-duty on-road and off-road equipment, agricultural machinery, and commercial fleet vehicles. It is commonly installed on Ford 6.7L and 7.3L Power Stroke diesels, GM Duramax platforms, Ram Cummins trucks, commercial mowing equipment, and stationary power units. The mount accepts any AMSOIL Ea Bypass spin-on filter element except the EaBP110's larger cousin, the EaBP120.

### FILTER SERVICE INTERVALS

## Technical Specifications

Filter Element	Mileage	Hours	Time
EaBP90	60,000 miles	600 hours	2 years
EaBP100	70,000 miles	800 hours	2 years
EaBP110	80,000 miles	1,200 hours	2 years

## Frequently Asked Questions

### Q1: What vehicles and equipment is the AMSOIL DUAL-GARD Bypass System BMK22 designed for?

The AMSOIL DUAL-GARD Bypass System (BMK22-EA) is designed for a wide range of applications including auto/light truck, motorcycle, ATV, UTV, snowmobile, marine outboard, PWC, heavy-duty on-road, heavy-duty off-road, and agriculture equipment. It connects to any engine through a pressurized oil port and works in conjunction with the engine's existing full-flow oil filter. The system includes a mount, mounting hardware, hose, and hose fittings, though the EaBP bypass oil filters are sold separately, and the EaBP120 filter is not compatible with this system.

### Q2: How does the AMSOIL DUAL-GARD Bypass System protect my engine from wear-causing contaminants?

The AMSOIL DUAL-GARD Bypass System provides superior small-particle filtration, including soot removal, by filtering oil on a partial-flow basis. It draws approximately 10 percent of the oil pump's capacity at any one time and traps extremely small, wear-causing contaminants that standard full-flow filters cannot remove. The system typically filters all the oil in the engine several times an hour, so the engine continuously receives analytically clean oil. Verified owners have reported impressive internal engine cleanliness even at 120,000 miles when using this system.

### Q3: What are the filter service intervals for the AMSOIL EaBP bypass filters used in the DUAL-GARD Bypass System?

The AMSOIL EaBP bypass filters offer extended service life depending on the filter model. The EaBP90 is rated for up to 60,000 miles or 600 hours, the EaBP100 for up to 70,000 miles or 800 hours, and the EaBP110 for up to 80,000 miles or 1,200 hours. All three filters have a maximum time interval of 2 years regardless of mileage or hours. These limits should not be exceeded.

### Q4: How does the AMSOIL DUAL-GARD Bypass System compare to using only a standard full-flow oil filter?

A standard full-flow oil filter must balance filtration efficiency with oil flow to avoid starving the engine of oil, which limits its ability to capture the smallest contaminants. The AMSOIL DUAL-GARD Bypass System works alongside the full-flow filter by diverting approximately 10 percent of oil pump capacity through a secondary filter that traps extremely small, wear-causing particles the full-flow filter cannot remove. This dual approach provides increased filtration capacity and life, helps increase engine efficiency and longevity, and helps reduce maintenance costs by keeping the oil analytically clean throughout the service interval.

**Q5: How often should I service or change the filter on the AMSOIL DUAL-GARD Bypass System?**

Filter service intervals depend on which EaBP bypass filter you use with the DUAL-GARD system. The EaBP90 should be changed by 60,000 miles, 600 hours, or 2 years, whichever comes first. The EaBP100 is good for 70,000 miles, 800 hours, or 2 years, and the EaBP110 extends to 80,000 miles, 1,200 hours, or 2 years. These intervals should not be exceeded. The system adds approximately 2 quarts of additional oil capacity, which can also help with engine oil cooling according to verified users.

**Q6: Is the AMSOIL DUAL-GARD Bypass System compatible with diesel engines and extended oil drain intervals?**

Yes, the AMSOIL DUAL-GARD Bypass System is compatible with diesel engines and is commonly used by diesel truck owners, including those with Ford 6.7L Powerstroke and other heavy-duty diesel platforms. Its superior small-particle filtration includes soot removal, which is particularly important for diesel engines that generate higher soot levels. Verified owners confirm the system supports extended oil change intervals by keeping the oil analytically clean, with users reporting that oil still looks new at 5,000 miles and engines running problem-free past 2,600 hours.

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**Available Product Codes**

Product Code	Package Size	Unit of Measure
BMK22-EA	1 System	Each

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