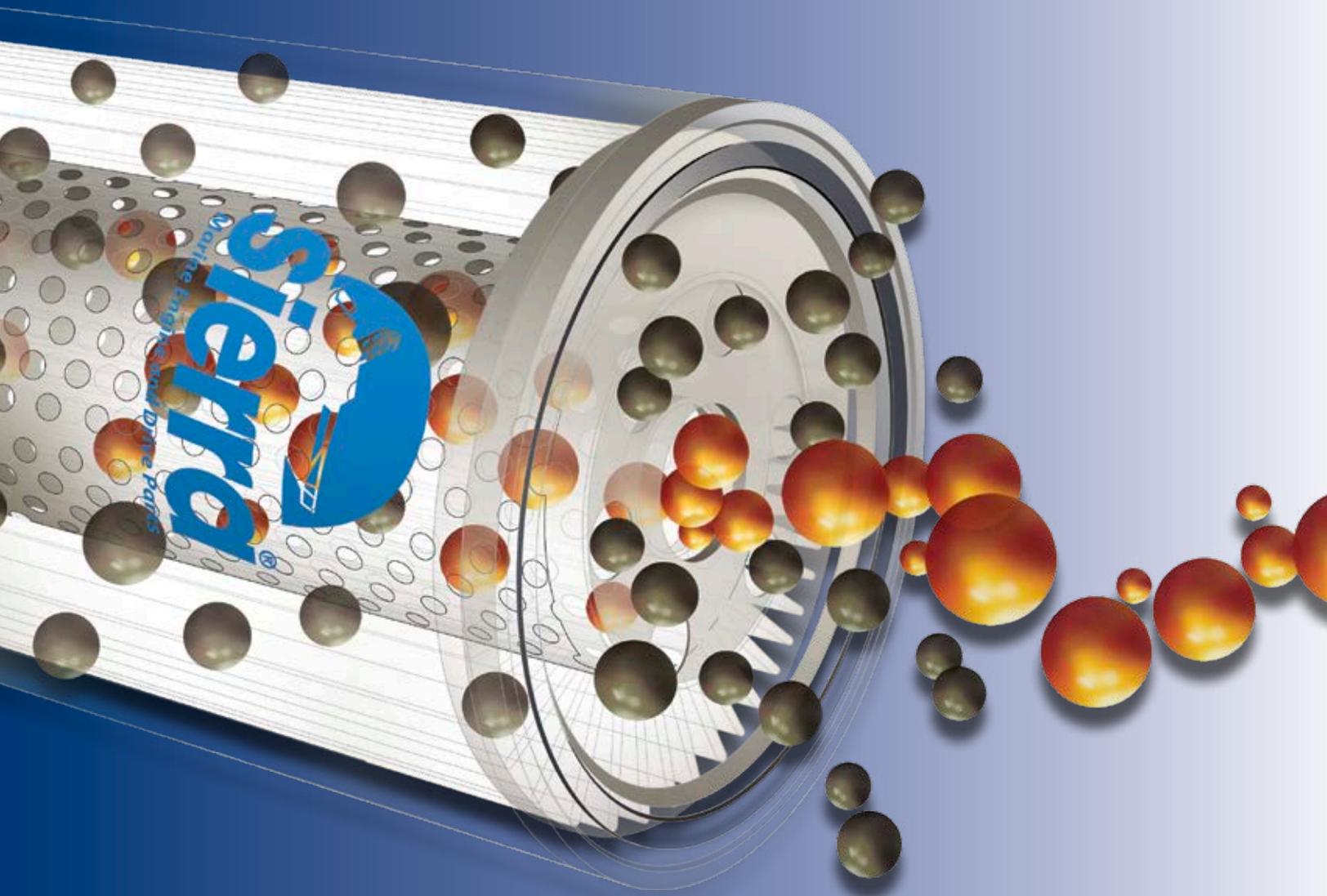


SOLUTIONS FOR ETHANOL BLENDED FUELS



CARBURETION

The fuel system would not be complete without mentioning the age-old fuel/air mixer – the carburetor. Carburetors have a long and storied history in the marine marketplace, helping power hundreds of thousands of sterndrive and inboard applications. Although new carburetors are unavailable for the majority of applications, Sierra has most of the popular applications covered with their remanufactured carburetor program.

Starting with select cores, Sierra's remanufactured carburetors are brought back to the exact OEM specifications. Following a thorough cleaning and inspection process, each unit is reassembled utilizing state of the art equipment and advanced techniques. Once reassembled, each unit is flow tested to ensure proper operation out of the box with minimal adjustments required. So when looking for the best remanufactured carburetor in the business, look for the blue Sierra tag.

SIERRA REMANUFACTURED CARBURETOR PROGRAM



1

1 - These assembled Sierra carburetors are awaiting movement to the flow bench.

Uncompromising quality, coupled with the broadest application coverage in the marine aftermarket is the best way to describe Sierra International's remanufactured carburetor program. Fully backed by our comprehensive warranty.



2

2 - This flow bend process ensures proper off-idle and full throttle operation of an assembled carburetor.



3

3 - Carburetors are adjusted for proper idle and choke operation in the secondary flow-bench operation.



4

4 - Carburetors that pass all flow bench testing are carefully packaged to ensure damage free shipping.

| PART NUMBER | DESCRIPTION | OEM | OEM PART NUMBER |
|-------------|-------------|----------------|-----------------|
| 18-7603-1 | Carburetor | Mercury Marine | 1347-818622 |
| 18-7604-1 | Carburetor | Mercury Marine | 3304-9354A2 |
| 18-7605-1 | Carburetor | Mercury Marine | 1347-9661A3 |
| 18-7607-1 | Carburetor | Crusader | 17082403 |
| 18-7608-1 | Carburetor | Mercury Marine | 1347-818620 |
| 18-7609-1 | Carburetor | Mercury Marine | 1347-818619 |
| 18-7610-1 | Carburetor | Mercury Marine | 1348-818621 |
| 18-7611-2 | Carburetor | Mercury Marine | 3310-807312A1 |
| 18-7613-1 | Carburetor | Mercury Marine | 3310-806969A1 |
| 18-7615-1 | Carburetor | Mercury Marine | 1347-804624R1 |
| 18-7616-1 | Carburetor | Mercury Marine | 1347-8288A1 |
| 18-7617-1 | Carburetor | Mercury Marine | 1347-9863A3 |
| 18-7618-1 | Carburetor | Mercury Marine | 1347-8289A1 |
| 18-7619-1 | Carburetor | Mercury Marine | 1347-8460 |
| 18-7639 | Carburetor | Mercury Marine | 3310-864943A01 |



**MOST
POPULAR
CARBURETORS**

See the Sierra catalog for a comprehensive listing of application information

CUTTING EDGE FUEL SOLUTIONS - INTRODUCTION

Quality fuel components are critical to long-term vessel operation. Sierra offers a comprehensive fuel solution that supplies the right combination of performance components for specific marine applications. Driven by industry requirements and fueled by years of expertise, their unique products offer cost-effective solutions to the demanding marine environment.

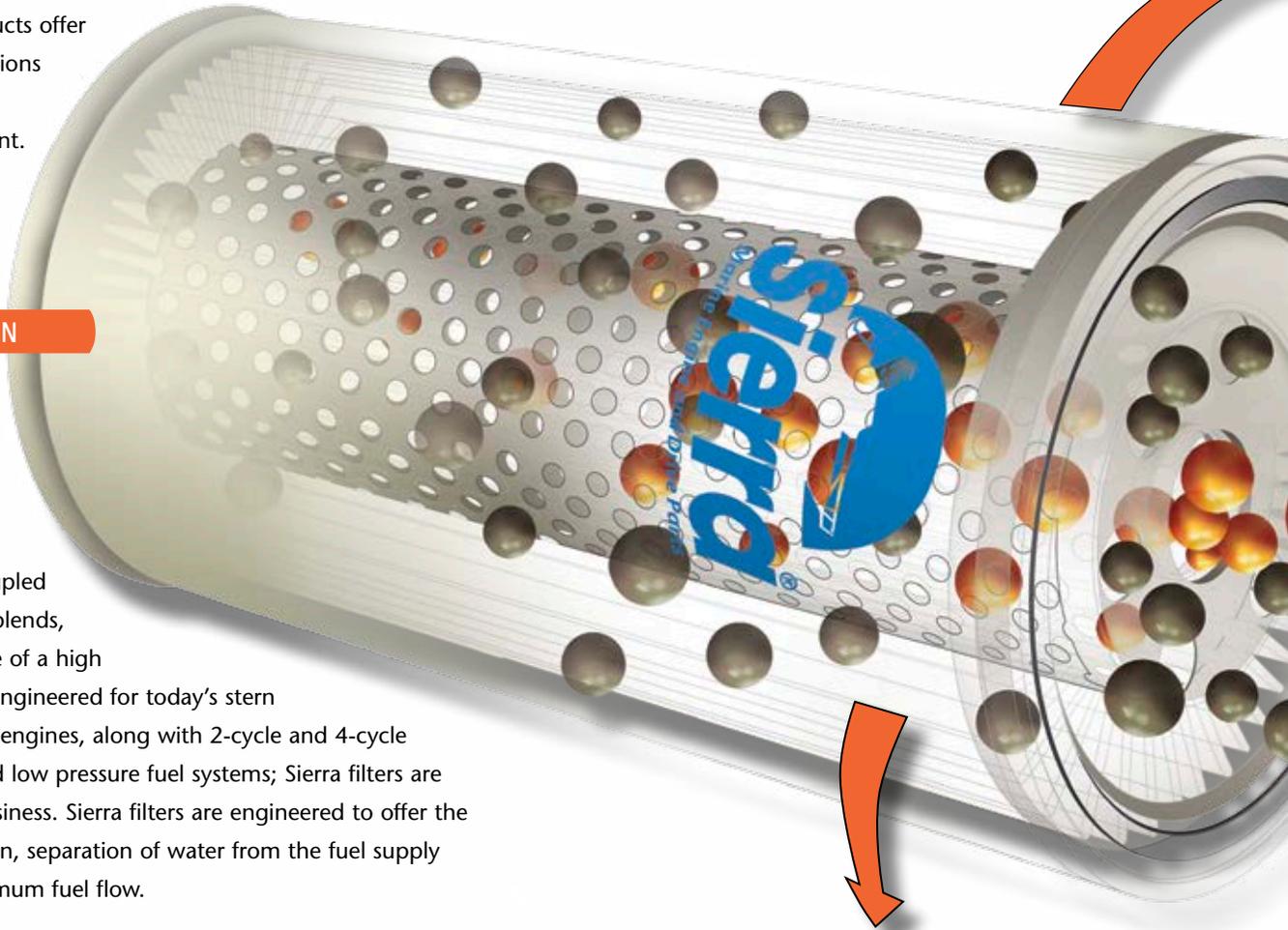
FILTRATION

Today's marine engines work in a demanding environment. Increased levels of sophistication, coupled with ethanol fuel blends, necessitate the use of a high quality fuel filter. Engineered for today's stern drive and inboard engines, along with 2-cycle and 4-cycle outboard high and low pressure fuel systems; Sierra filters are the best in the business. Sierra filters are engineered to offer the ultimate in filtration, separation of water from the fuel supply and provide maximum fuel flow.

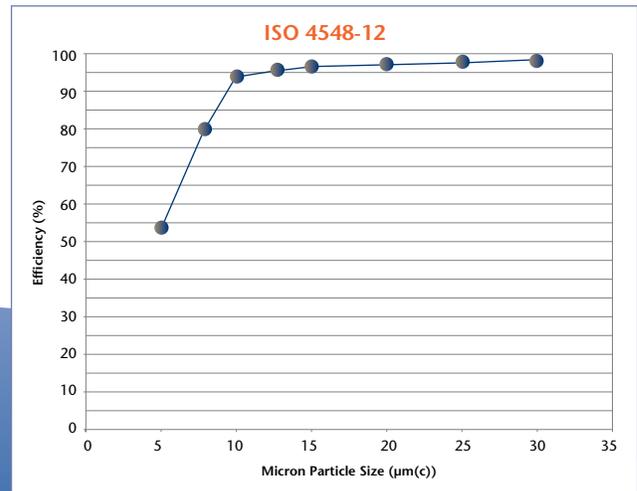
10 MICRON FILTRATION – OVER 90% EFFICIENCY

Efficiency rating relates to the percentage of particles at a given size that a filter can capture. The higher the efficiency, the higher the percentage of dirt retained by the filter. Many filter manufacturers claim 10 micron filtration but do not guarantee the efficiency. Sierra does.

The future of boating depends on better fuel efficiency, enhanced engine performance, and environmental responsibility. Sierra leads the charge in developing products which meet these criteria. Sierra doesn't just offer fuel components, they provide fuel solutions.



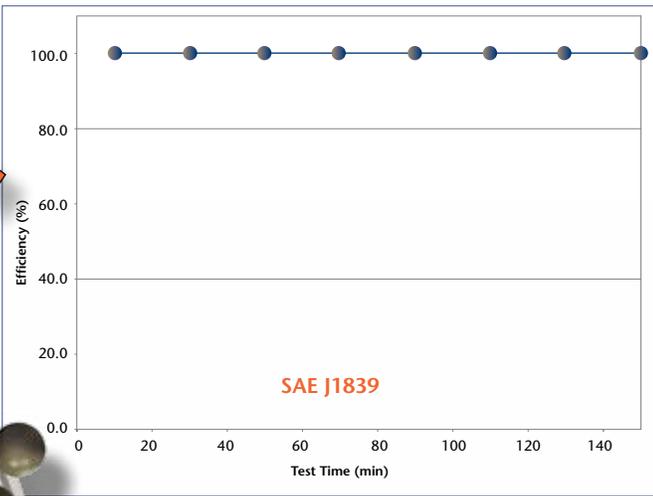
Sierra's 10 Micron Fuel Water Separating Filter Performance Test
Over 90% Filtration Efficiency at 10 Micron



Particle Removal Efficiency vs. Particle Size.

Test after Test after Test...

Sierra's 10 Micron Fuel Water Separating Filter Performance Test
Over 99% Separation of Emulsified Water



EPA/CARB COMPLIANT PRIMER BULBS

Sierra's EP series of primer bulbs are manufactured utilizing a special Floroelastomer compound which allows it to exceed the EPA's mandated 15g/m2/24hrs rating.

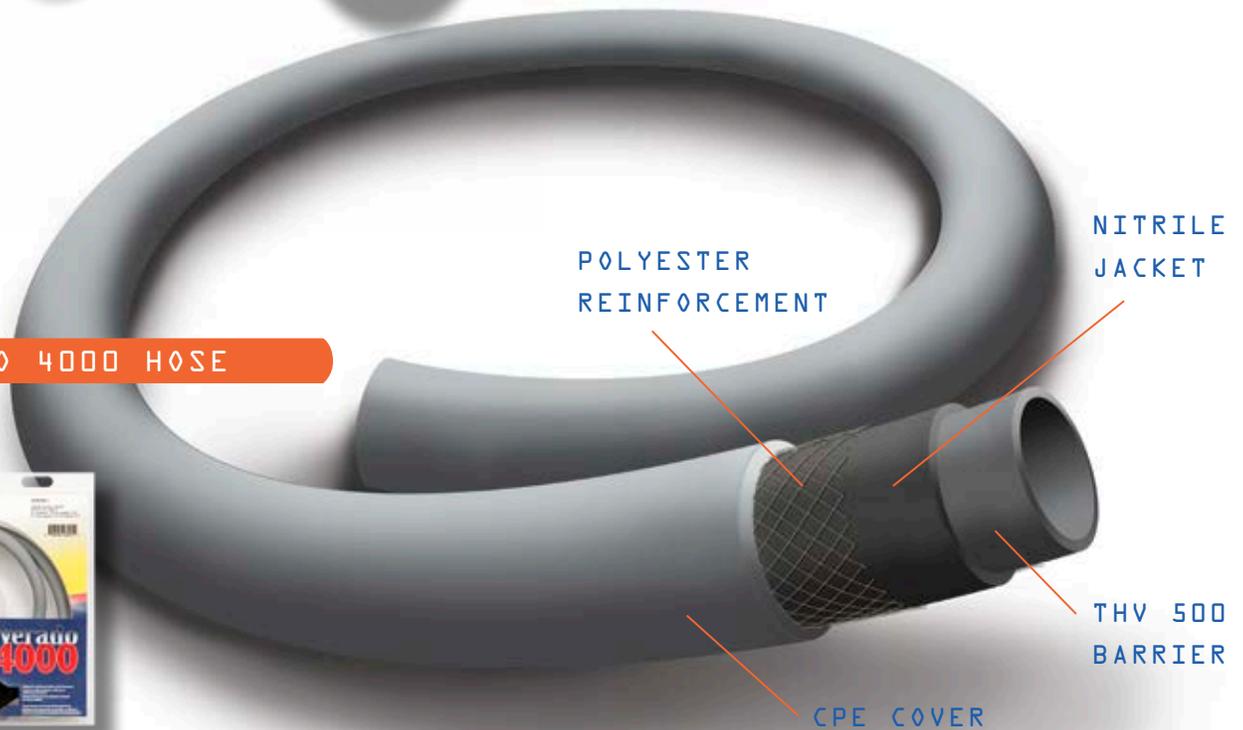


SILVERADO 4000

Sierra's Silverado 4000 fuel line is constructed with a THV barrier layer, polyester reinforcement, and a CPE weather and UV resistant cover with a non-permeable liner that meets all current EPA and CARB standards. This formulation is easier to rig, clamp and maintains its flexibility under a range of extreme environmental conditions and is designed to resist ethanol fuels.

EXTREMELY LOW PERMEATION

SILVERADO 4000 HOSE



FUEL LINE ASSEMBLIES

In 2011, the EPA required all primer bulbs and primer bulb assemblies to utilize low permeation components to reduce pollution causing hydrocarbon permeation through the hose and/or primer bulb by as much as 85%.

In response, Sierra introduced a new EPA approved primer bulb that exceeded the mandated permeation rate while maintaining Sierra's traditional look, feel, and operational characteristics. Manufactured from a unique FKM material, Sierra's primer bulb meets both EPA and CARB standards while providing outstanding warm/cold weather flexibility.

The Silverado 4000 is a rubber fuel line with fabric reinforcement that features a PVDF layer to prevent permeation. Designed to meet all EPA/CARB requirements and compatible with all blends of ethanol reformulated fuel, the Silverado 4000 is extremely flexible and kink resistant in all weather conditions.

Utilized in the Sierra fuel line assemblies, the Silverado 4000 is also available in 5/16" and 3/8" (nom.) in 300' bulk coils, 50' and 25' Shields roll out cartons, and 10' poly bags.



| PART NUMBER | DESCRIPTION | OEM | OEM PART NO. |
|--------------|-------------------------------------|------------------|------------------------------|
| 18-8002EP-1 | ¼" PRIMER BULB | UNIVERSAL | N/A |
| 18-8004EP-1 | 5/16" PRIMER BULB | UNIVERSAL | N/A |
| 18-8005EP-1 | 3/7" PRIMER BULB | UNIVERSAL | N/A |
| 18-8011EP-1 | FUEL LINE ASSEMBLY | CHRYSLER/FORCE | FS409752 |
| 18-81042EP-1 | FUEL LINE ASSEMBLY | HONDA | 17700-ZW9-010, 17700-ZW9-020 |
| 18-8009EP-1 | FUEL LINE ASSEMBLY | JOHNSON/EVINRUDE | 398549 |
| 18-8014EP-1 | FUEL LINE ASSEMBLY | JOHNSON/EVINRUDE | 174509 |
| 18-8010EP-1 | FUEL LINE ASSEMBLY | MERCURY | N/A |
| 18-8012EP-1 | FUEL LINE ASSEMBLY | MERCURY | 32-858114Q08, 32-858114K08 |
| 18-8024EP-1 | FUEL LINE ASSEMBLY | MERCURY | 32-858104Q08, 32-858104K08 |
| 18-8025EP-1 | FUEL LINE ASSEMBLY | MERCURY | 32-858105Q08, 32-858105K08 |
| 18-8016EP-1 | FUEL LINE ASSEMBLY | MERCURY | 32-858109Q12, 32-858109K12 |
| 18-8023EP-1 | FUEL LINE ASSEMBLY | MERCURY | 32-857103Q12, 32-857103K12 |
| 18-8027EP-1 | FUEL LINE ASSEMBLY | NISSAN/TOHATSU | N/A |
| 18-8018EP-1 | FUEL LINE ASSEMBLY | SUZUKI | 65700-95513 |
| 18-8019EP-1 | FUEL LINE ASSEMBLY | SUZUKI | N/A |
| 18-8035EP-1 | FUEL LINE ASSEMBLY | SUZUKI | 65700-87J10 |
| 18-8017EP-1 | FUEL LINE ASSEMBLY | YAMAHA | 6YL-24306-60-00 |
| 18-8013EP-1 | FUEL LINE ASSEMBLY | UNIVERSAL | N/A |
| 18-8015EP-1 | FUEL LINE ASSEMBLY | UNIVERSAL | N/A |
| 18-8032EP-1 | FUEL LINE ASSEMBLY | UNIVERSAL | N/A |
| 16-337-0560 | 5/16" SILVERADO 4000 BULK | N/A | N/A |
| 16-337-0563 | 5/16" SILVERADO 4000 10' POLYPAC | N/A | N/A |
| 16-337-0565 | 5/16" SILVERADO 4000 25' R/O CARTON | N/A | N/A |
| 16-337-0566 | 5/16" SILVERADO 4000 50' R/O CARTON | N/A | N/A |
| 16-337-0380 | 3/8" SILVERADO 4000 BULK | N/A | N/A |
| 16-337-0383 | 3/8" SILVERADO 4000 10' POLYPAC | N/A | N/A |
| 16-337-0385 | 3/8" SILVERADO 4000 25' R/O CARTON | N/A | N/A |
| 16-337-0386 | 3/8" SILVERADO 4000 50' R/O CARTON | N/A | N/A |

Sierra eGuard is a multi-function fuel additive that is specifically designed to solve the problems caused by ethanol-blended fuel from E5 to E85.

- Slows phase separation by dispersing water attracted to ethanol
- Removes and prevents gum and carbon deposits
- Improves engine performance and fuel economy
- Stabilizes stored fuel
- Restores octane to older, stale fuel
- Works in both 2-stroke and 4-stroke engines
- Compatible with all other fuel additives

