

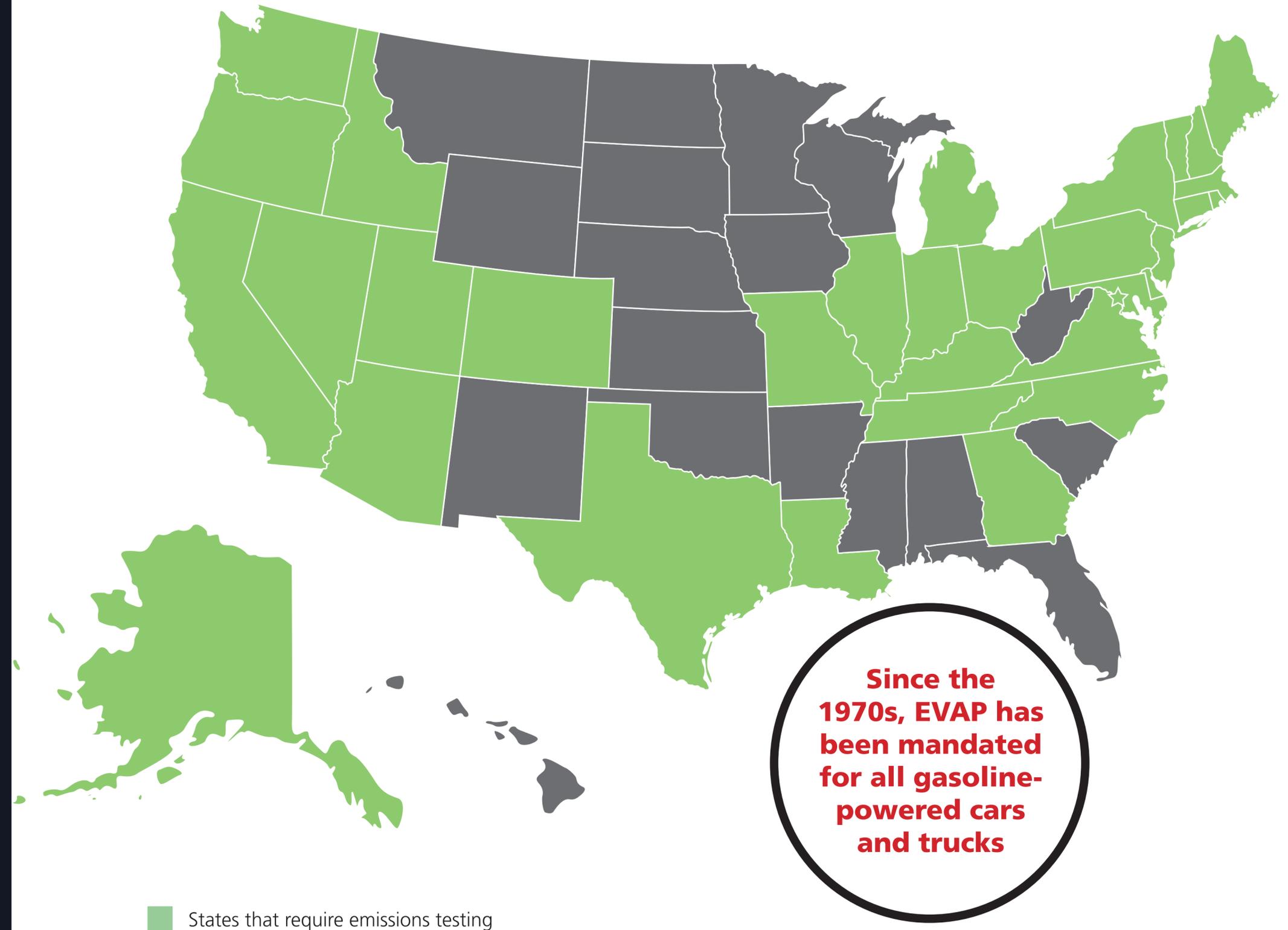
STANDARD[®] EMISSION CONTROL PROGRAM

Growing Market

It is estimated that the U.S. is responsible for more than 50% of global vehicle emissions. In 2021, the Environmental Protection Agency (EPA) finalized new vehicle emission standards to help further reduce greenhouse gas emissions.

New legislation will have little impact if the vehicles already on the road are not maintained correctly. Keeping your customers' vehicles' emissions low by maintaining the emissions control system with premium components is good business, good for the planet and may help limit future legislation.

STATES THAT REQUIRE EMISSIONS TESTING



STANDARD® EMISSION CONTROL PROGRAM

Sales Opportunities

There are many service repair opportunities within emissions systems.

The 2010-04 Ford Explorer utilizes a mechanical-style EGR valve, which includes the control solenoid and differential pressure feedback-exhaust (DPFE) sensor in one piece. EGR valves like this commonly fail due to ice buildup in the valve, causing cracks in the housing. Additionally, a restricted catalytic converter can cause the assembly to melt and disconnect.

EGV1055
Ford / Mercury
(2010–04)



The Standard EGV1055 is a direct-fit replacement for the original, offering long-lasting durability

Tech Tip

The steel gasket used to mount the EGR valve to the intake manifold has a pre-calibrated orifice. Do not try to modify it or trouble codes will be set.

STANDARD[®] EMISSION CONTROL PROGRAM

Impact on Engine Systems



A purge solenoid that becomes stuck in the open position will cause the engine to continuously draw fuel vapors from the EVAP system, causing the engine to run rich



When a PCV system isn't operating properly, the crankcase of the engine will be under excessive pressure and cause oil leaks



If an EGR valve is stuck open on a speed-density system which uses a MAP sensor for fuel control, the engine vacuum will be lower and engine load will appear higher, resulting in a rich running condition

STANDARD® EVAP

Overview

EVAP is short for Evaporative Emission Control System, which is used to prevent gasoline vapors from escaping into the atmosphere.

Standard® offers a wide range of EVAP components to keep this complex system operating as designed.



Canister Purge Valves

Designed to look, fit, and perform exactly like the original part they're replacing

130+ SKUs / 59M VIO



Canister Vent Valves

Tested to ensure correct performance and manufactured using the highest quality materials to withstand extreme conditions

20+ SKUs / 22M VIO



Canister Vent Solenoids

Includes a premium molding for durability, and 100% tested to match OE design and performance

160+ SKUs / 145M VIO



Canister Purge Solenoids

Designed to look, fit, and perform exactly like the original part they're replacing

350+ SKUs / 215M VIO

STANDARD® EVAP

Overview

Standard® EVAP components are designed to match the OE for form, fit, and critical function. Each part is manufactured to meet stringent standards for quality and durability.

It is important that these parts fit and perform exactly the same as the vehicle manufacturer intended to help keep emissions low.



Fuel Vapor Canisters

Built from industrial grade materials for OE-matching performance and a long service life

600+ SKUs / 248M VIO



ESIM (Evaporative System Integrity Module)

A key component of the EVAP system, this module detects pressure differences across a variety of conditions

4 SKUs / 20M VIO



Leak Detection Pumps

A full line of direct-fit pumps engineered to match OE designed performance

70+ SKUs / 40M VIO

STANDARD® EVAP

What's New

EVAP components account for more than 1,500 part numbers in Standard's ever-expanding line of emissions component coverage.

For the most recent applications, check the online catalog at StandardBrand.com.



CP987
Vapor Canister Purge Pump
GM Trucks & Cars
2.7L
2023-19
VIO: 163K



CP979
Canister Purge Solenoid
Hyundai / Kia SUVs
1.6L / 2.0L / 2.4L
2022-16
VIO: 1.5M



CP3735
Fuel Vapor Canister
Ford / Lincoln SUVs
2.0L
2023-18
VIO: 638K



STANDARD® EVAP COMPONENTS

Top Movers

**IMPORT
APPLICATIONS**



CP620

Canister Purge Solenoid
Lexus / Toyota Trucks, Cars & SUVs
(2018-06)



CVS67

Canister Vent Solenoid
Nissan / Infiniti Cars & SUVs
(2023-03)



CP545

Canister Purge Solenoid
Hyundai / Kia Cars & SUVs
(2014-06)



CP569

Canister Purge Solenoid
Audi / VW Cars & SUVs
(2015-98)



CP641

Canister Purge Solenoid
Honda / Acura Cars & SUVs
(2015-06)



CP612

Canister Purge Solenoid
GM Cars, Trucks & SUVs
(2020-09)



CP758

Canister Purge Valve
Ford Cars, Trucks & SUVs
(2023-09)



CVS6

Canister Vent Solenoid
GM Trucks & SUVs
(2011-03)



CP781

Canister Purge Valve
GM Cars & SUVs
(2023-12)



LDP14

Fuel Vapor Leak Detection Pump
Chrysler, Dodge, Jeep & RAM
(2021-07)

**DOMESTIC
APPLICATIONS**

STANDARD® EVAP

Precision Engineering

Standard® delivers long-lasting EVAP components, and all Standard® EVAP parts are rigorously tested to ensure flawless operation. On vehicle-performance matches OE.

The Standard® LDP14 Evaporative System Integrity Module is built to match the OE part for fit, form, and function, with OE-matching performance.

Standard® Evaporative System Integrity Module



LDP14
Chrysler / Dodge / Jeep / Ram
(2022-07)

STANDARD® CRANKCASE & EGR EMISSIONS

Overview

In addition to an industry-leading EVAP program, Standard® also offers premium products for both crankcase and EGR emissions. Keeping an emission system operating as the vehicle manufacturer intended is critical for performance and fuel economy. All of Standard's emission products are manufactured and tested to keep today's complex emission systems operating correctly.

Standard's Crankcase and EGR Emissions Programs include over 4,000 part numbers. Here is a sampling of the categories included in these programs.



PCV Valves

A component of the crankcase system, these valves control the flow of combustion fumes in ICE engines.

361 SKUs / 199M VIO



PCV Grommets

Designed to look, fit, and perform exactly like the original part they're replacing

130+ SKUs / 59M VIO



Engine Oil Separators

Tested to ensure correct performance and manufactured using the highest quality materials to withstand extreme conditions

20+ SKUs / 22M VIO



EGR Valves

Built from industrial grade materials for durability, and designed as a direct-fit replacement for ease of installation

600+ SKUs / 248M VIO

STANDARD® CRANKCASE & EGR EMISSIONS

Overview

Each Crankcase and EGR component is designed as a direct-fit OE replacement, ensuring that it is easy to install and performs as intended. These parts are also subject to a stringent testing and validation process to ensure durability and a long service life.



Crankcase Breather Hoses

Properly corrects vacuum leaks caused by cracked OE units

40 SKUs / 32M VIO



Crankcase Ventilation Filters

Direct-fit OE replacement for ease of installation, and undergoes extreme testing to ensure reliability

29 SKUs / 6.9M VIO



EGR Control Solenoids

Made with the finest components including multiple precious metal contacts and polymer thick film resistors

63 SKUs / 36M VIO

Standard's offering of EGR Emissions Products also includes:

EGR Delay Valves

EGR Pressure Feedback Hoses

EGR Repair Kits

EGR Time Delay Control Switches

EGR Tubes

EGR Valve Control Solenoid Filters

...and much more

STANDARD® CRANKCASE & EGR EMISSIONS

What's New

Crankcase and exhaust emission components account for more than 4,000 part numbers in Standard's ever-expanding line of emission control products.

For the most recent applications, check the online catalog at StandardBrand.com.



EOS11
Engine Oil Separator
Ford / Lincoln Cars & SUVs
2.0L
(2018-12)
VIO: 2.1M



EGV1312
EGR Valve
Ford Cars, Trucks & SUVs
2.3L
(2023-19)
VIO: 826K



V754
PCV Valve
Nissan Cars & SUVs
1.5L / 2.5L
(2023-19)
VIO: 1M



STANDARD® CRANKCASE & EGR EMISSIONS

Top Movers

**IMPORT
APPLICATIONS**



V509
PCV Valve
Hyundai / Kia Cars & SUVs
(2023-07)



EGV658
EGR Valve
Honda / Acura Cars, Trucks & SUVs
(2010-1997)



V400
PCV Valve
Infiniti/Nissan Cars, Trucks & SUVs
(2023-00)



V384
PCV Valve
Honda / Acura Cars, Trucks & SUVs
(2019-03)



V231
PCV Valve
Hyundai, Kia, & Mitsubishi
Cars & SUVs
(2022-83)

**DOMESTIC
APPLICATIONS**



V485
PCV Valve
Chrysler, Dodge, Jeep & Ram
(2020-07)



V546
PCV Valve
GM Cars & SUVs
(2023-04)



VS63
EGR Control Solenoid
Ford Cars, Trucks & SUVs
(2008-1995)



V173
PCV Valve
GM Cars, Trucks & SUVs
(2012-1970)



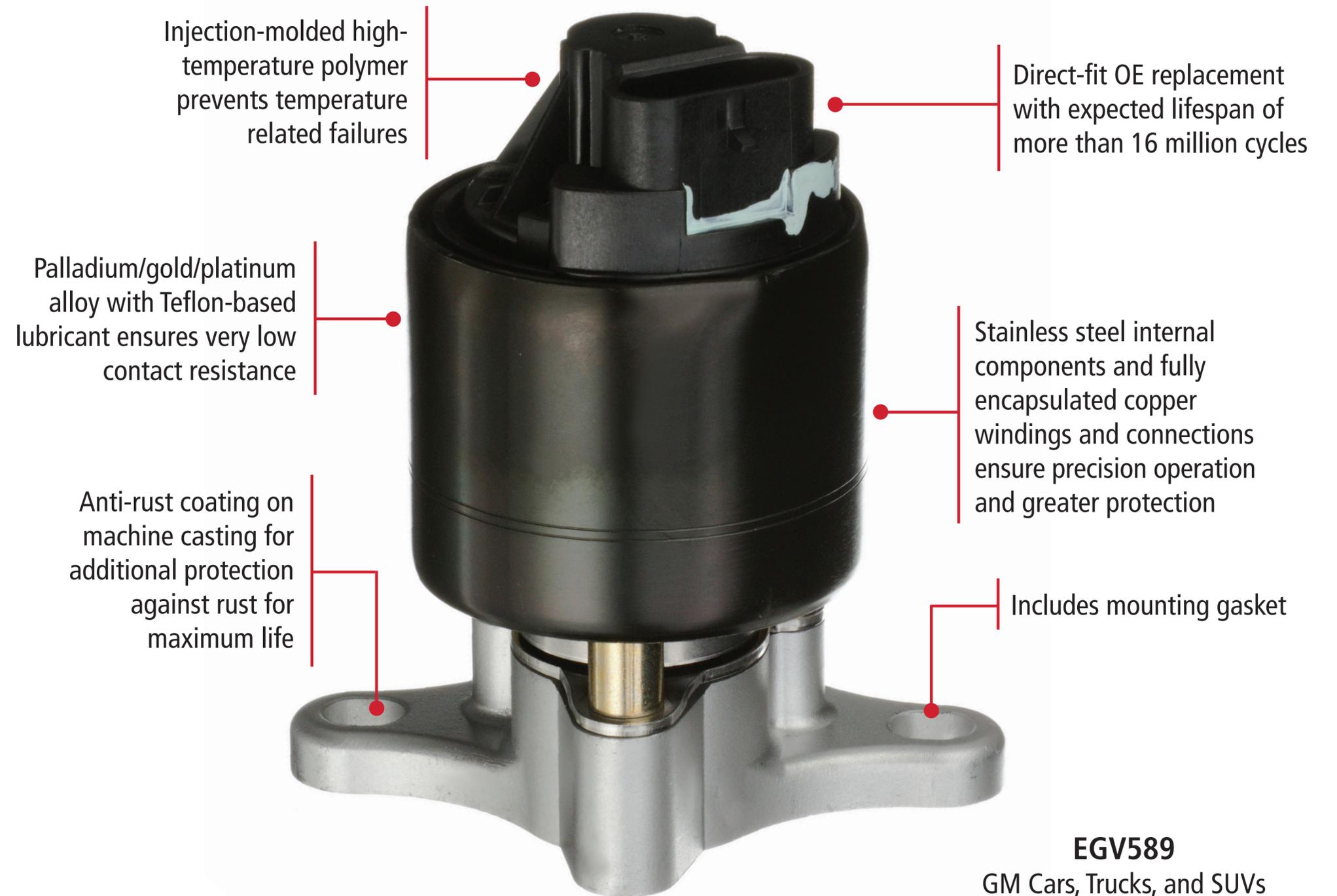
EGV827
EGR Valve
Chrysler, Dodge, Jeep & RAM
(2008-04)

STANDARD® CRANKCASE & EGR EMISSIONS

Precision Engineering

Every Standard® EGR Valve, like the EGV589, is calibrated for precision performance. To ensure trouble-free operation, each one must pass comprehensive quality testing, including computer-controlled bench testing for resistance, leakage, and response and flow rates.

Standard® EGR Valve



EGV589

GM Cars, Trucks, and SUVs
(2005–96)

STANDARD®
EMISSION CONTROL PROGRAM

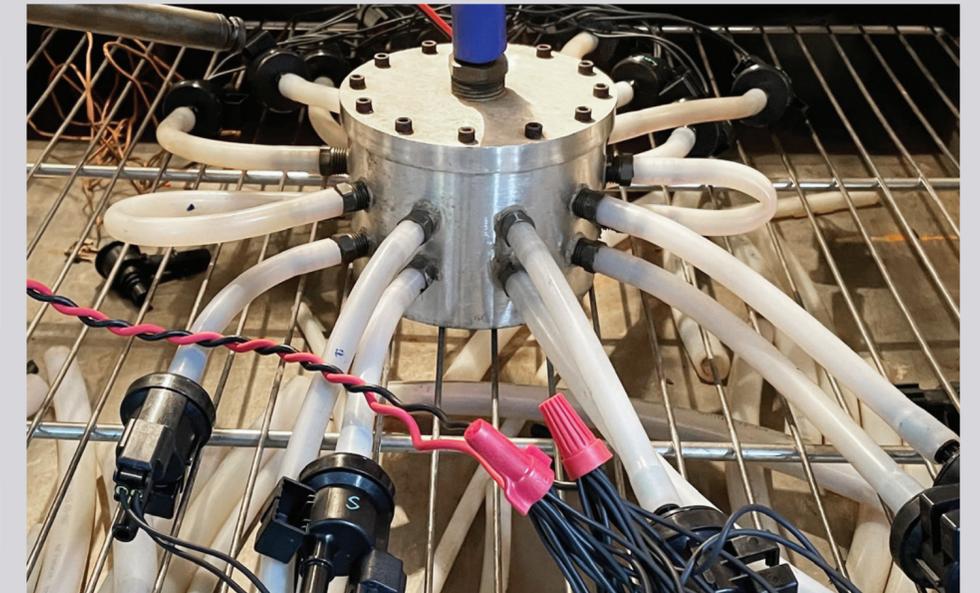
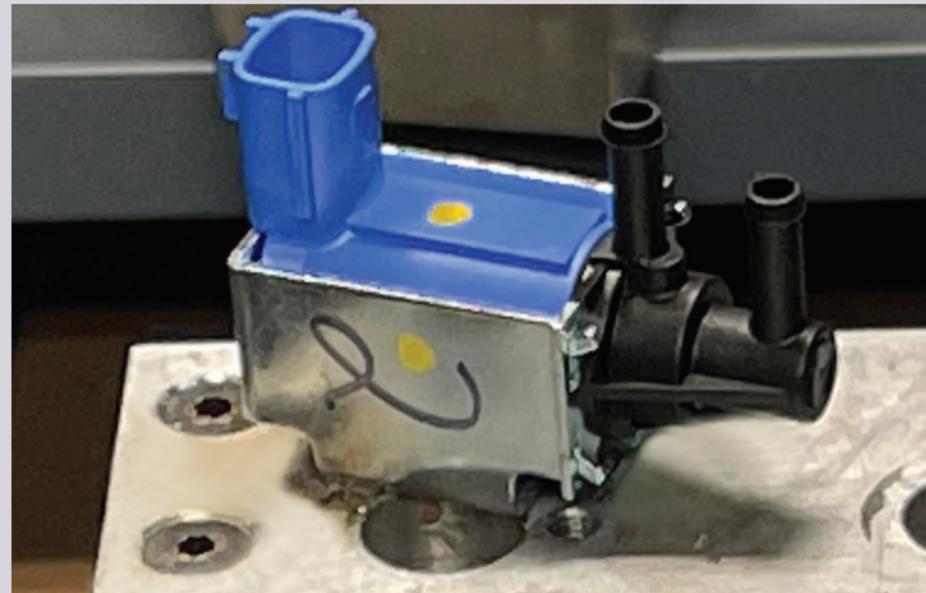
Testing and Validation

Our parts undergo rigorous examination and product validation, including extensive performance benchmarking, product life-cycle testing and end-of-line testing.

Processes can vary from category to category, but it is always thorough. For example, Standard® Canister Purge Solenoids go through a barrage of tests including accelerated wear, thermal cycling, thermal shock, salt fog, vibration, and drop testing.



Emission control products undergo testing and validation at our Independence, Kansas facility.



Canister Purge Solenoids are pictured undergoing vibration testing (left) and thermal cycle testing.

STANDARD®
EMISSION CONTROL PROGRAM

Standard® Pro Training Tech Tip

As experienced ASE-certified automotive technicians themselves, Standard® Pro Trainers are experts in Emission systems.

Here's what they say to look out for during an emission system service.



After an EVAP system is repaired, it is important to verify the repair by running a self test and verifying that no DTC have returned (this might not be possible for some small EVAP leak codes)



While PCV replacement used to be a part of every tune-up, it has been overlooked on many modern vehicles. In some cases, it will be incorporated into the valve cover. Always check TSBs and see if there is an updated design available, especially if the engine is experiencing oil leaks



EGR low-flow DTCs can be caused by restricted intake passages, fault control solenoids, and faulty EGR valves. Always ensure that the control system is operating properly and that the intake passages are free of carbon build up

STANDARD®
EMISSION CONTROL PROGRAM

Standard® Professional Training

Award-Winning In-Person, Live Virtual, and Online Learning

Standard® Pro Training delivers accredited classes that educate technicians in the latest automotive repair technologies, and techs can earn CEU credits.

An extension of Standard® training, our extensive ADA-compliant YouTube professional installation video library has over 40 million views and 50,000+ channel subscribers.



For information on diagnosing and replacing emissions components, search "emissions" on the StandardBrand YouTube channel



Available Classes

Diagnosing Secondary AIR Injection Systems

Chrysler EVAP Tips and Tricks

Diagnosing Catalytic Converter Codes

EVAP System Diagnosis

Misfire Diagnostics

Lean Engine Diagnosis

Rich Engine Diagnosis

Visit StandardBrandTraining.com

IN-PERSON TRAINING



Available Classes

Misfire Diagnosis

Honda/Acura Diagnosis

Nissan/Infiniti Diagnosis

Ford Gas Vehicle Update

EVAP Diagnostics

Advanced Engine Mechanical Diagnostics

GM Engine Controls