EMISSION CONTROL PROGRAM

Highlights

Standard® offers more than 1,300 EVAP components for import and domestic applications

Standard® also offers over 550 crankcase and 1,000 exhaust gas recirculation (EGR) emissions components

Standard's emission components are precision engineered and tested for durability and OE-matching performance



What's in your box?™



Growing Market

In the U.S., it is estimated that passenger vehicles create 374.2 million metric tons of carbon dioxide per year. That is 29% of the country's total emissions. To combat the rising emissions rates, the Environmental Protection Agency (EPA) continues to tighten vehicle emission standards to help further reduce greenhouse gas emissions.

Not only do the emission systems of existing vehicles need to be maintained, but new vehicles will likely be equipped with even more complex emission systems. As more complex systems and components are added, repair opportunities will grow, especially in states with vehicle emission testing requirements.

Projected Industry CO₂ Compliance Targets

Model Year	Cars CO ₂ (g/mile)	Light Trucks CO ₂ (g/mile)	Fleet CO ₂ (g/mile)
2022 (SAFE reference)	181	261	224
2023	166	234	202
2024	158	222	192
2025	149	207	179
2026	132	187	161
Total change 2022-2026	-49	-74	-63

Source: EPA



Sales Opportunities

Standard's EGV827 EGR Valve is specifically designed for the 5.7L V8 engine found in 2010-03 Chysler, Jeep, and Dodge vehicles. This precision manufactured EGR Valve also includes both gaskets so that a comprehensive replacement of the commonly failed OE EGR Valve can be performed.

EGV827 Chrysler / Dodge / Jeep Cars, Trucks & SUVs (2010–03)



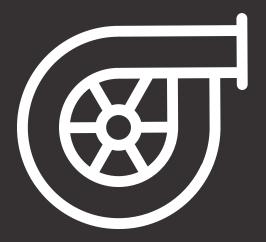


The Standard® EGV827 is a direct-fit replacement for the original, offering long-lasting durability

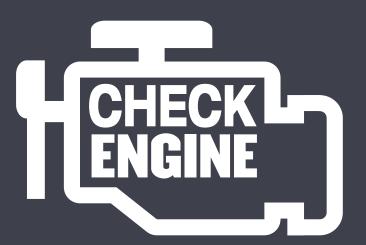
Impact on Engine Systems



A stuck open purge
solenoid will cause the
engine to continuously
draw fuel vapors from the
EVAP system, causing a rich
condition and drastically
reducing MPG



engines utilize check
valves to prevent positive
pressure from entering
the EVAP system — It is
important to ensure that
these valves are working
properly to avoid damage
to emission components



Failed emission components

will often cause the Check

Engine Light to illuminate

— With emission systems

becoming increasingly

complicated, it is helpful to

scan DTCs, which will aid in

directing you to the exact part

needing repair or replacement

Emission Control Program

What's New

EVAP Components

Standard® is continually expanding its already 1,300+ part EVAP emission catalog. When considering the extreme conditions under which many EVAP components operate, installing high-quality replacement parts is paramount. Standard® extensively tests all EVAP components to provide technicians and customers with reliable, high-quality parts.

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



EEH035

Vapor Canister Purge Valve Hose

Ford F-150 (2023-16)

VIO: 4.2M





CP322 Canister Purge Solenoid Ford F-150

(2023-18)

VIO: 1.9M

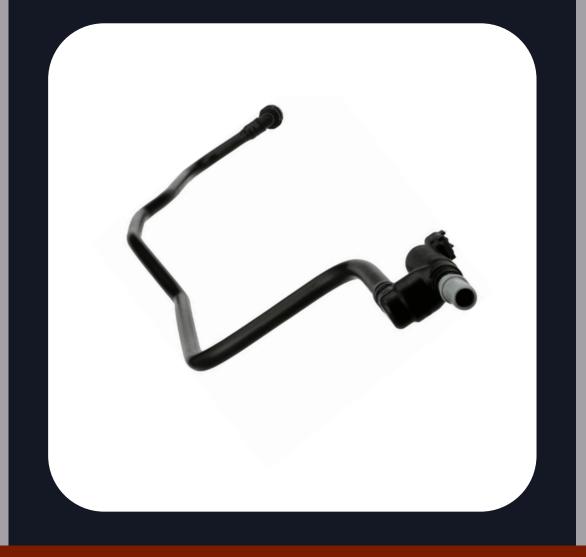


CP326

Canister Purge Solenoid Audi / VW Cars & SUVs (2022-14)

VIO: 1.7M









StandardBrand.com **EVAP Components**

What's New

Crankcase Emission Components

Standard's already impressive 550+
Crankcase Emission Component catalog
continues to grow every year. Key features
of our Crankcase Breather Hoses and
PCV Valves are that they retain OE fitting
designs and include high-quality seals for a
complete and easy repair.

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



V858
Engine Crankcase Breather Hose
Hyundai / Kia Cars & SUVs
(2023-10)
VIO: 4.2M





V844
Engine Crankcase Breather Hose
Ford Cars & SUVs
(2020-13)
VIO: 1.7M





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





What's New

EGR Components

Standard's diverse, 1,000+ EGR program continues to grow each year. Standard is devoted to providing high quality replacement EGR components and repair kits so that technicans can provide their customers with a complete and reliable service.

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



ETB194 EGR Tube Toyota / Lexus SUVs (2022-16)VIO: 821K

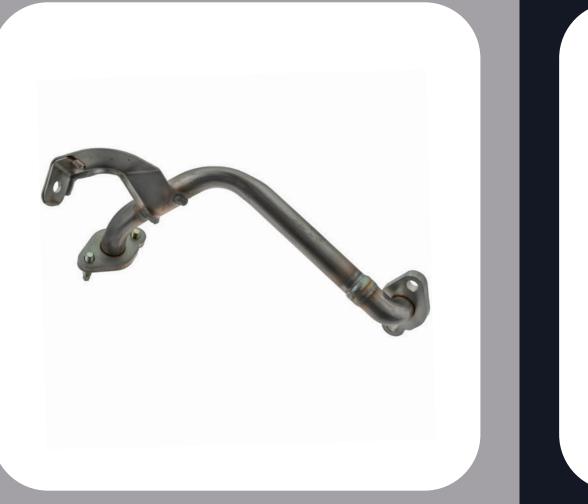




EGV1328 EGR Valve Subaru Cars & SUVs (2024-19)**VIO: 598K**



EGV1338 EGR Valve RAM Trucks (2023-19)VIO: 534K







EVAP Components

Evaporative Emission Control Systems, also referred to as 'EVAP,' are responsible for preventing fuel vapors from escaping into the atmosphere from a vehicle's fuel system.

Standard® is dedicated to providing high-quality replacement EVAP components in order to keep this vital system working as intended.



Canister Purge Valves

Manufactured using high-grade industrial plastic which withstands high engine temperatures

120+ SKUs / 61M VIO



Canister Vent Solenoids

Proprietary molding technique provides superior resistance to environmental influences, drastically reducing the possibility of leaks

145+ SKUs / 176M VIO



Canister Vent Valves

Extensively tested to ensure reliable operation even in the most extreme conditions

120+ SKUs / 27M VIO



Canister Purge Solenoids

Designed to seamlessly integrate with the computer to operate just like the OE part it is replacing

300+ SKUs / 228M VIO



EVAP ComponentsStandardBrand.com

EVAP Components

Standard® EVAP components are designed and manufactured using the highest-quality materials and processes in order to provide parts which match the OE form, fit, and critical function.

It is important that these parts can be installed with ease and that they operate exactly as intended by the OE manufacturer.



Fuel Vapor Canisters

Constructed using industrial grade materials in order to provide a prolonged service life

600+ SKUs / 36M VIO



Leak Detection Pumps

A continually expanding line of direct-fit pumps engineered to match OE function

70+ SKUs / 46M VIO



ESIM (Evaporative System Integrity Module)

Designed and tested to accurately detect pressure change and provide corresponding voltage information to the vehicle's PCM

4 SKUs / 24M VIO

*ESIMs are a type of leak detection pump designed by Chysler. These components use two weights, a diaphragm, and a switch to detect pressure differences across a variety of conditions.



EVAP Components StandardBrand.com

Top Movers: EVAP Components

IMPORT APPLICATIONS



CP620
Canister Purge Solenoid
Toyota / Lexus
Cars, Trucks & SUVs
(2018-06)



CVS67
Canister Vent Solenoid
Nissan / Infiniti
Cars, Trucks & SUVs
(2023-03)



CP545
Canister Purge Solenoid
Hyundai / Kia
Cars & SUVs
(2014-06)



CP793

Canister Purge Solenoid

Toyota / Lexus

Cars, Trucks & SUVs

(2012-03)



CP569
Canister Purge Solenoid
VW / Audi
Cars & SUVs
(2015-98)

DOMESTIC APPLICATIONS



CP612
Canister Purge Solenoid
GM
Cars, Trucks & SUVs
(2020-09)



CP471
Canister Purge Solenoid
GM
Cars, Trucks & SUVs
(2020-03)



CP758

Canister Purge Solenoid

Ford

Cars, Trucks & SUVs

(2021-11)



CP470
Canister Purge Solenoid
GM
Cars, Trucks & SUVs
(2014-04)



CP781
Canister Purge Valve
GM
Cars & SUVs
(2021-12)

EVAP Components StandardBrand.com

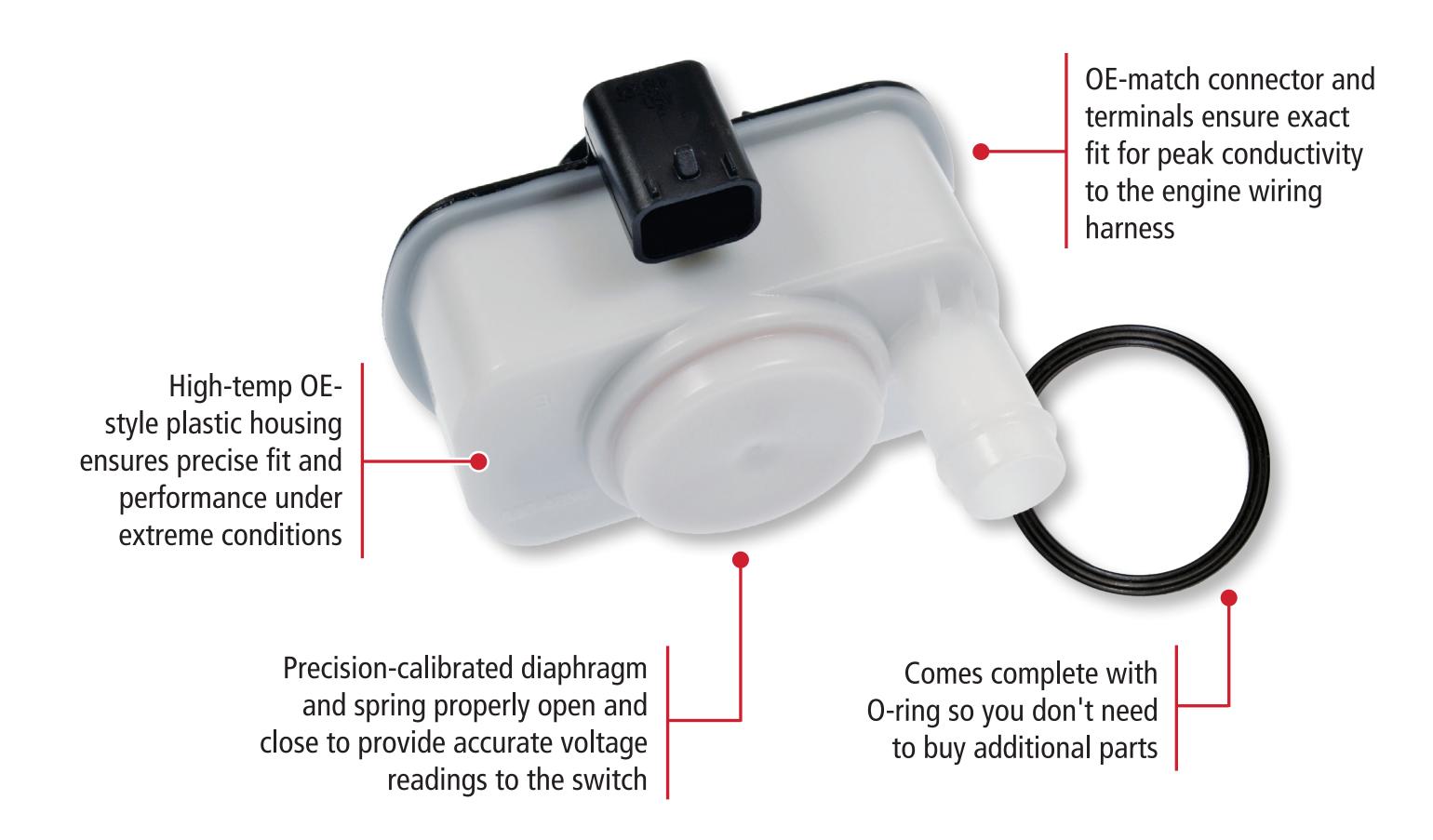
Precision Engineering

EVAP Components

Evaporative System Integrity Modules (ESIM), also known as Evaporative System Integrity Monitors, are a key EVAP component on many late-model Chrysler, Dodge, Jeep, RAM and Fiat vehicles. Unlike previous Leak Detection Systems, ESIMs do not contain a solenoid. Instead, ESIMs use two weights, a diaphragm and a switch to detect pressure differences across a variety of conditions.

All Standard® Evaporative System Integrity Modules are built to match the OE part for fit, form, and function.

Standard® Evaporative System Integrity Module



LDP14 Chrysler / Dodge / Jeep / RAM (2021-07)

STANDARD EVAP Components StandardBrand.com

Crankcase Emission Components

Standard's 550 Crankcase Emission
Components are made to keep a vehicle's
emission system operating as the OE
manufacturer intended. Key features of our
products ensure that the vehicle maintains
long-term reliability, performance, and fuel
economy.

Did You Know

Many forced-induction vehicles rely on the PCV valve to protect engine internals. Under heavy load, a failed PCV valve will allow positive pressure into the crankcase, resulting in damage to vital seals inside of it.



PCV Valves

These valves control gas emissions and reroute gas produced by the crankcase back into the engine's combustion chambers

365+ SKUs / 236M VIO



Engine Crankcase Breather Hoses

Constructed using high-temperatureresistant materials and OE-style fittings to ensure proper fit, form, and function

95+ SKUs / 109M VIO



PCV Grommets

Manufactured using high-quality synthetic materials to resist breakdown from heat and promote a long-lasting seal around the PCV Valve

25 SKUs / 14M VIO



Engine Oil Separators

Designed to match OE function of air and oil separation to reduce carbon buildup and maintain engine efficiency

45+ SKUs / 33M VIO



Crankcase Ventilation Filters

Engineered and tested to match OE filtration specifications

17 SKUs / 8M VIO



Top Movers: Crankcase Emission Products

IMPORT APPLICATIONS



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



V400
PCV Valve
Nissan
Cars, Trucks & SUVs
(2020-02)



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



V412
PCV Valve
Honda / Acura
Cars
(2019-02)



V567
PCV Valve
Honda / Acura
Cars & SUVs
(2019-13)

DOMESTIC APPLICATIONS



V178
PCV Valve
GM
Cars, Trucks & SUVs
(1999-70)



V485
PCV Valve
Chrysler / Dodge / Jeep / RAM
Cars, Trucks & SUVs
(2020-07)



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



V341
PCV Valve
Ford
Trucks, Vans & SUVs
(2004-97)



V173
PCV Valve
GM
Cars, Trucks & SUVs
(2012-70)

EGR Program

Standard's 1000+ part EGR program doesn't stop at EGR Valves. Standard® offers a diverse selection of high-quality replacement EGR parts ranging from hoses to switches and even valve repair kits.

Standard® EGR parts are subject to a stringent testing and validation process which ensures long-term durability, reliability, and service life.



EGR Valves

Built from industrial grade materials for durability and calibrated to ensure precise operation

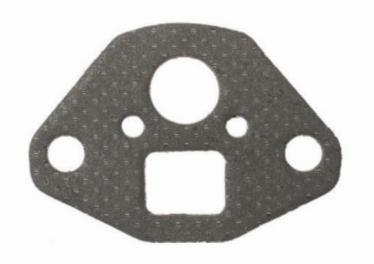
620+ SKUs / 110M VIO



EGR Control Solenoids

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

65+ SKUs / 33M VIO



EGR Valve Mounting Gasket

Designed and manufactured using application-specific, heavy-duty materials to seal against extreme EGR temperatures

190+ SKUs / 111M VIO

Standard's offering of EGR Emissions Products also includes:

EGR Pressure Feedback Hoses

EGR Repair Kits

EGR Time Delay Control Switches

EGR Tubes

EGR Valve Control Solenoid Filters

...and much more



StandardBrand.com

Top Movers: EGR Products

IMPORT APPLICATIONS



EGV658

EGR Valve

Honda / Acura
Cars, Trucks & SUVs

(2010-97)



EGV1025

EGR Valve

Mazda / Ford

Cars & SUVs

(2022-03)



EGV1134

EGR Valve

Honda / Acura

Cars, Trucks & SUVs

(2020-08)



EGV994

EGR Valve

Mazda / Ford / Mercury

Cars & SUVs

(2006-01)



VG6
EGR Valve Mounting Gasket
Acura / Nissan / Subaru /
GM / Ford / Jeep
Cars, Trucks & SUVs
(2019-72)

DOMESTIC APPLICATIONS



EGV827

EGR Valve
Chrysler / Dodge / Jeep
Cars, Trucks & SUVs
(2010-03)



EGV1149

EGR Valve
Chrysler / Dodge / Jeep
Vans & SUVs
(2011-07)



EGV612
EGR Valve
GM
Cars & SUVs
(2009-00)



EGV589

EGR Valve

GM

Cars, Trucks & SUVs

(2005-93)

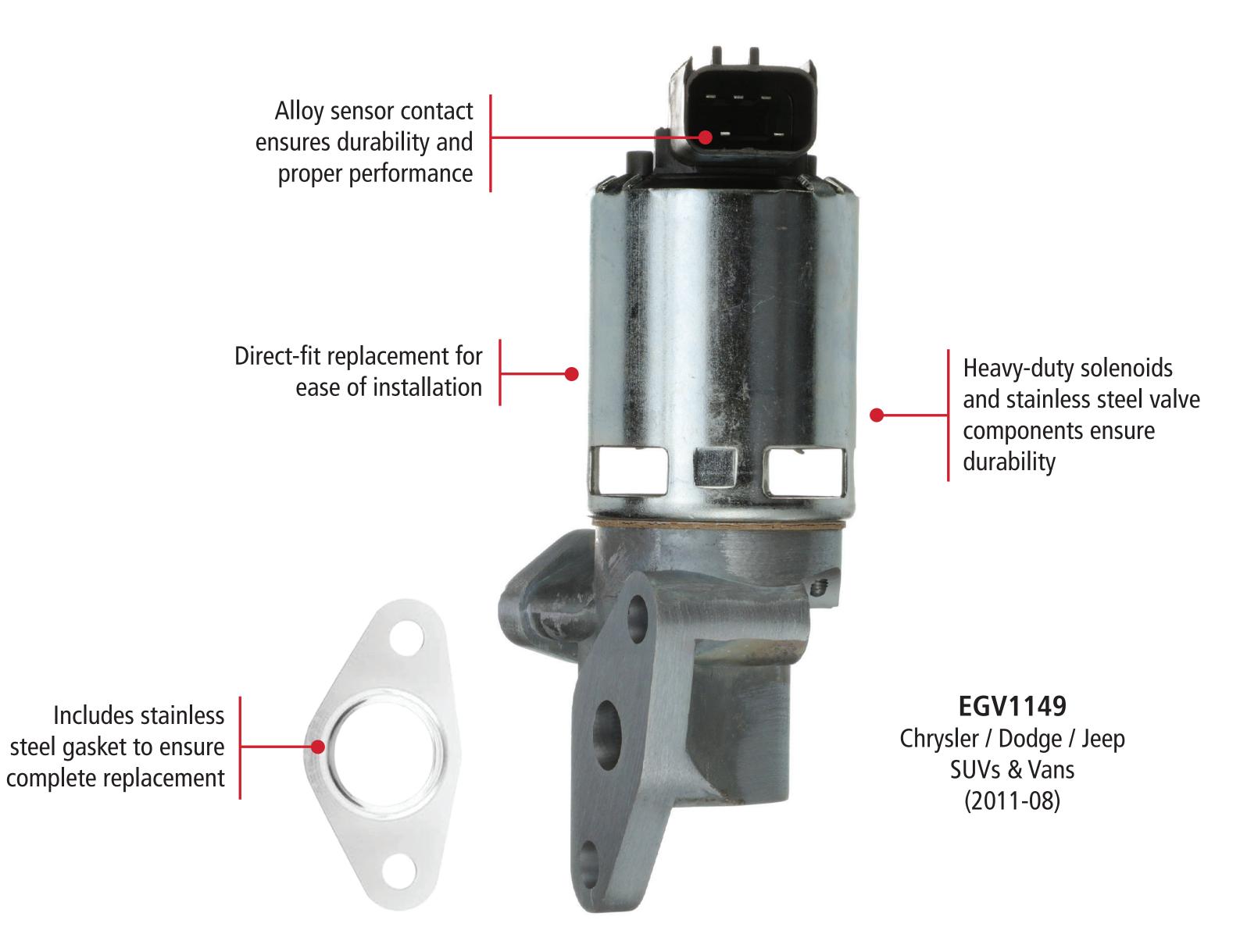


EGV627
EGR Valve
GM
Trucks & SUVs
(1995-87)

Precision Engineering

Every Standard® EGR Valve, like the EGV1149, is calibrated for precise 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





StandardBrand.com

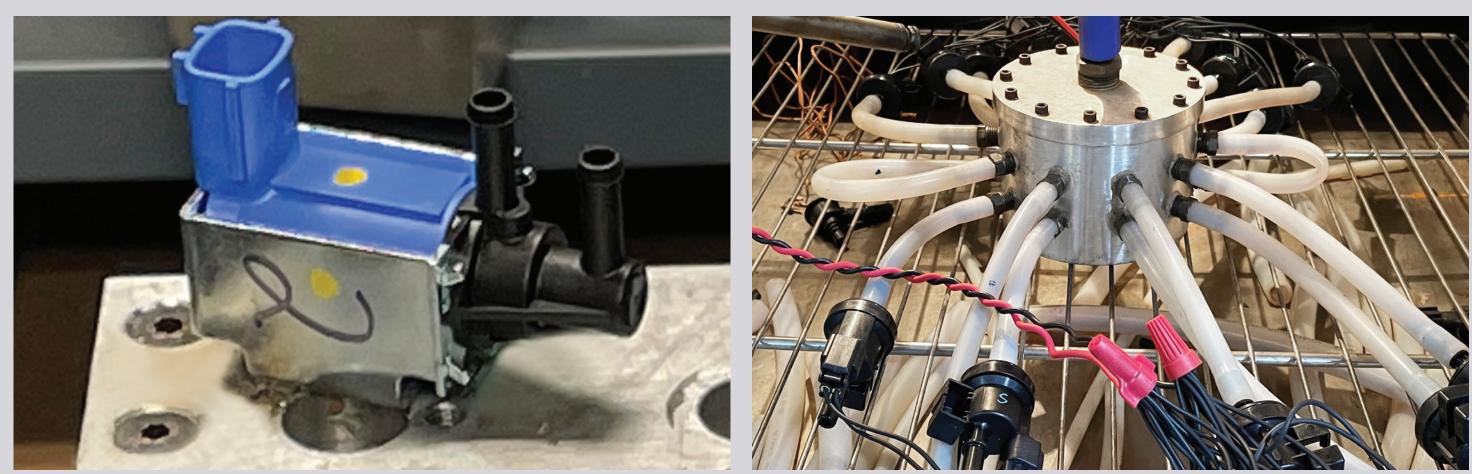
Testing and Validation

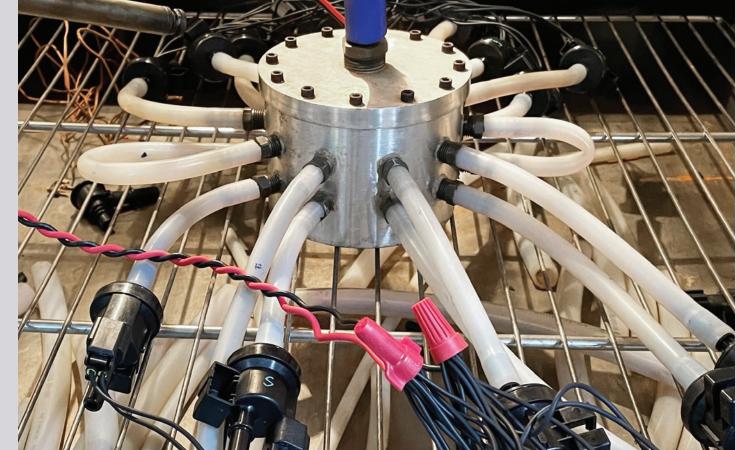
Our parts undergo rigorous examination and product validation, including extensive performance benchmarking, product life-cycle testing and end-of-line testing.

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.



Standard® Emission Control products undergo on-vehicle testing at our Lewisville, Texas facility.





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



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 DTCs have returned (this
might not be possible for
some small EVAP leak codes)



The emission systems

on modern vehicles are

fine-tuned to operate in

symphony with each other

— If one component fails, it

will cause others to operate

less efficiently



caused by restricted intake

passages, faulty 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® 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 YouTube video library has over 600 technical and installation videos.





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



Available Classes

Misfire Diagnosis

Honda / Acura Diagnosis

Nissan / Infiniti Diagnosis

Ford Gas Vehicle Update

EVAP Diagnostics

Advanced Engine Mechanical Diagnostics

GM Engine Controls



For information on replacing emission components, search "EVAP," "Crankcase," or "EGR" on the **StandardBrand** YouTube channel

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