

EMCO®
WHEATON RETAIL

Balance Phase II EVR Components

For Use with Executive Orders
VR-203, VR-204, VR-207, VR-208



99.5%
Vapor Collection
Efficient

*Providing You the Best
Phase II EVR Hanging
Hardware Solution*



Serviceable Affordable Efficient

EMCO WHEATON RETAIL CORPORATION

2300 Industrial Park Drive • Wilson, North Carolina 27893
252-243-0150 • 252-243-4603 (fax) • www.emcoretail.com

Model Numbers **Description**

A4005EVR-XXX Balance Vapor Recovery Nozzle, New
RA4005EVR-XXX Balance Vapor Recovery Nozzle, Rebuilt

A4005EVR = Model Number
XXX = Scuff Color
R = Rebuilt

Repair & Replacement Kits

<u>Part Number</u>	<u>Description</u>
492775EVR	Bellows & Boot Face Kit
492776EVR	Boot Face Only Kit
492834EVR	Spout Kit
494150EVR	Latch Kit
494748EVR	Fuel Path O-ring Kit
494750EVR	Bellows Band Clamp Kit
A0557EVR-XXX	Scuff Guard Kit

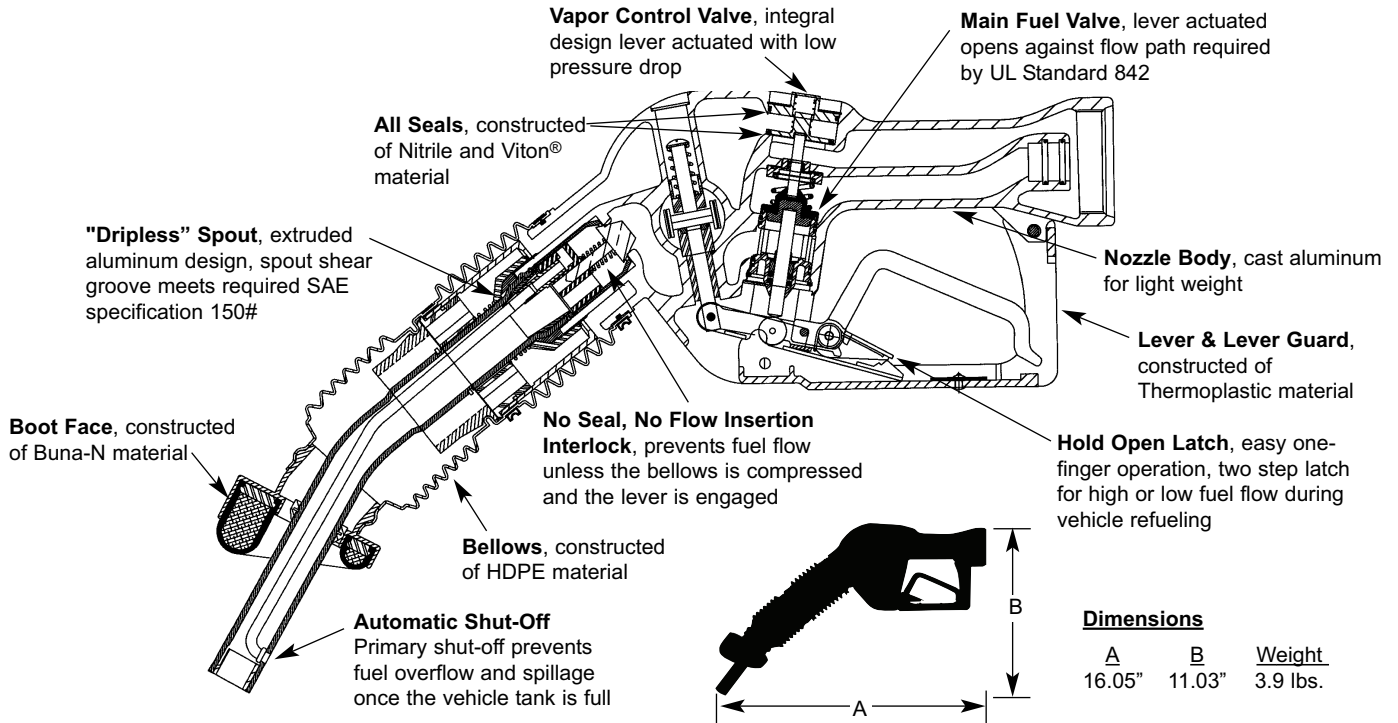
Required Service Tools

<u>Part Number</u>	<u>Description</u>
494635EVR	Spout Plug
494652EVR	Bellows Band Clamp Crimp Tool
494653EVR	Lever Guard Rivet Installation Tool
494654EVR	Lever Guard Rivet Removal Tool
494655EVR	Phase II EVR Service Kit
494712EVR	Bellows Retainer Plate Tool
494761EVR	Balance Nozzle Adapter
494771EVR	Surrogate Spout Assembly

Performance Standards & Specifications

This component is factory tested to, and meets the following specifications:

1. Meets SAE Spout Dimension Standards J285, Rev SEP92.
2. Meets ARB Material Compatibility with Fuel Blends as per Section 3.8 of CP-201.
3. Meets ARB Capable of Refueling Any Vehicle Standards as per Section 4.7.1 of CP-201.
4. Meets ARB Spout Dimension Standards as per Section 4.7.3 of CP-201.
5. Meets ARB Nozzle and Dispenser Compatibility Standards as per Section 4.9 of CP-201.
6. Meets ARB Balance Nozzle Criteria Standards as per Section 5.1 of CP-201.
7. TP-201.2B – Complies with the maximum allowable leak rate of 0.07 CFH @ 2.00 inches of water column pressure.
8. TP-201.2C – Complies with the maximum allowable spillage factor of 0.24 pounds/ 1,000 gallons.
9. TP-201.2D – Complies with the maximum allowable average of 3 post fuel drips.
10. TP-201.2E – Complies with the maximum allowable average of 100mL liquid retention and 1mL liquid spit-back.
11. TP-201.2J – Complies with the maximum allowable component pressure drop of 0.08 inches of water column @ 60 CFH.



Guide Specification: The Model A4005EVR Nozzle is designed for use with Balance Phase II Vapor Recovery Systems. Complies with the California Air Resources Board CARB Enhanced Vapor Recovery Program EVR Certification Procedures CP-201.

During vehicle refueling, the *nozzle* is securely latched to the vehicle fill pipe by means of a permanent band located on the spout. The position of the band permits the *nozzle* to remain in place on either a vertical or horizontal place. The flexible bellows and soft boot face together provide the proper vapor seal connection between the spout and vehicle fill pipe as fuel passes into the vehicle tank.

The *No Seal, No Flow insertion interlock mechanism* assures adequate compression of the bellows and boot face against the vehicle fill pipe, creating a tight vapor seal for proper balance phase II vapor recovery.

The integral *vapor control valve* is located within the nozzle body. It opens to allow the return of vapor when the nozzle is securely latched to the vehicle fill pipe, with the bellows compressed and the lever engaged.

The *automatic shut-off* is a required safety device of the nozzle that stops and prevents the overflow and spillage of fuel once the vehicle tank is full.

Viton® is a registered trademark of DuPont Dow Elastomers.

Certification & Listings:

Agency Approval Number

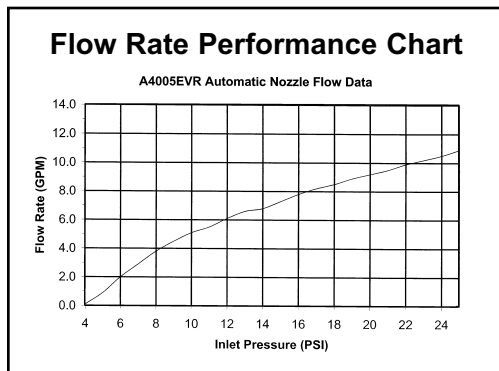
CARB EVR
Executive Orders VR-203, VR-204, VR-207, VR-208

CARB Pre-EVR Mix & Match
Approval Letter #09-10/ Advisory #408 9/19/2010

California State Fire Marshall
GVRC 005:007:025

California Division of Measurement Standards
3211(d)-09

UL Listing
MH1460, Volume 11, Section 5, 08NK20256





Dimensions

A B
3.0" 5.6"

Weight
1.3 lbs.

Body, cast aluminum for light weight vapor paths

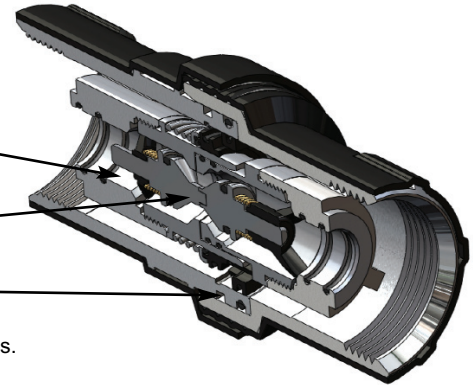
All Seals, constructed of Viton® and Buna-N material

Vapor Path, designed with low pressure drop

Dual Poppet Design, seals off the fuel and vapor path

Shear Pins, constructed of aluminum to fracture at a maximum pull force of 350 lbs.

Scuff Guard, constructed of vinyl material



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Guide Specification: The Model A4119EVR Coaxial Safe Break Valve is a shear pin style non-reconnectable component designed for use with Balance Phase II Vapor Recovery Systems. Complies with the California Air Resources Board CARB Enhanced Vapor Recovery Program EVR Certification Procedures CP-201. A dual poppet design seals off both the fuel and vapor paths upon separation due to customer related "drive-off" occurrences, eliminating fuel spillage, vapor emissions and minimizing damage to the dispenser unit.

<u>Model Numbers</u>	<u>Description</u>
A4119EVR-020	Coaxial Safe Break Valve

<u>Repair Kit</u>	<u>Description</u>
494748EVR	Fuel Path O-ring Kit

Performance Standards & Specifications

These components are factory tested to, and meet the following specifications:

1. Meets ARB Material Compatibility with Fuel Blends as per Section 3.8 of CP-201.
2. TP-201.2B – Complies with the maximum allowable leak rate of 0.00 CFH @ 2.00 inches of water column pressure.
3. TP-201.2J – Complies with the maximum allowable component pressure drop of 0.04 inches of water column @ 60 CFH.

Certification & Listings:

<u>Agency</u>	<u>Approval Number</u>
CARB Pre-EVR	Approval Letter #95-3
CARB EVR	Executive Orders VR-203, VR-204, VR-207, VR-208
CARB Pre-EVR Mix & Match	Approval Letter #09-10/ Advisory #408 9/19/2010
California State Fire Marshall	GVRC 005:007:031
California Division of Measurement Standards	3211(d)-09
UL Listing	MH17833, Volume 1, 08NK20256

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