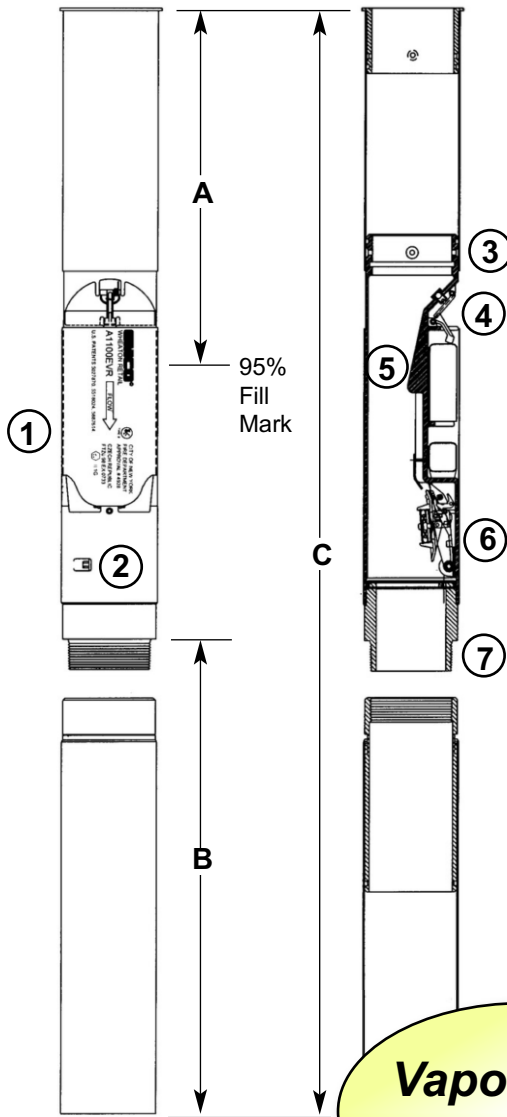




# A1100EVR OPV Assemblies

CARB E.O.  
VR-105

*Provides tank with automatic fuel shutoff at 95% capacity*



- 1 Floats contained in protective sleeve**  
Insures damage-free installation & removal.  
No hinged legs or exposed floats to hang up.
- 2 Plug socket** Allows manual testing of flapper valve assembly in field.
- 3 Top tube-to-valve interface factory welded, sealed and tested** for vapor-tight performance
- 4 Secondary float bleed valve with Viton<sup>®</sup> seal**  
Allows fast hose drainage.
- 5 Diverter fins protect the flapper valve**  
Allows damage-free stick gauging at any fluid level.
- 6 Automatic valve resetting function**  
Positions flapper out of the flow stream.  
Allows immediate stick gauging after fill.
- 7 Base of overfill valve is threaded and factory welded to bottom tube incorporating Viton<sup>®</sup> seals** for vapor-tight performance

Aluminum body, HDPE floats, Viton<sup>®</sup> seals

Straight through design gives highest flow rate

Compatible with all standard fuels

Viton<sup>®</sup> is a registered trademark of DuPont Dow Elastomers.

**Vapor Tight  
No Epoxy**

Model No.	Description	Upper Length A	Lower Length B	Overall Length C	Max. Burial Depth	Nominal Tank Dia.	Weight
A1100EVR-055	Dual Pt Screw Together	73"	83"	168"	6.0'	8"	25.2 lbs.
A1100EVR-056	Dual Pt Screw Together	85"	95"	192"	7.0'	10"	27.2 lbs.
A1100EVR-057	Dual Pt Screw Together	85"	121"	218"	6.8'	12"	30.3 lbs.
A1100EVR-058	Dual Pt Screw Together	123"	121"	256"	10.0'	12"	31.0 lbs.
A1100EVR-057E	Dual Pt Screw Together E85	85"	121"	218"	6.8'	12"	30.5 lbs.

*Custom lengths are available upon request*

**566675  
Drilling Fixture**



# A1100 Guardian Overfill Prevention Valve



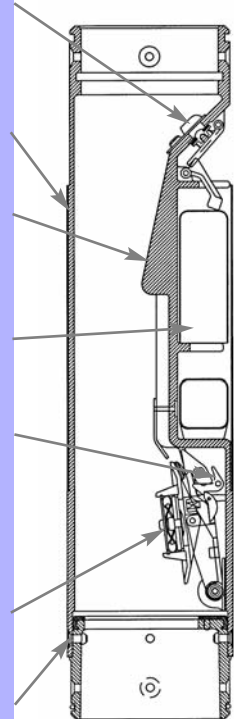
**Best Quality • Best Flow • Best Price**

**EMCO WHEATON RETAIL CORPORATION**

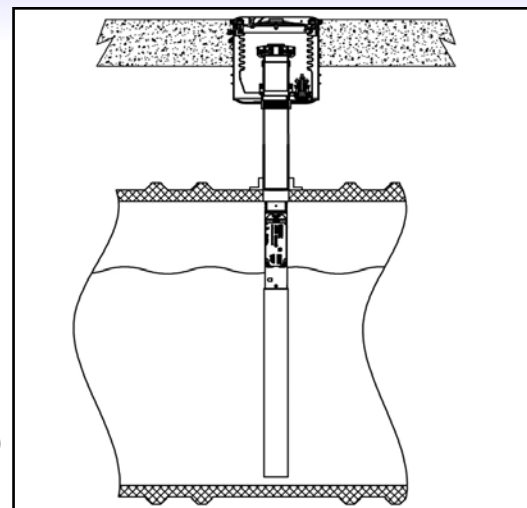
2300 Industrial Park Drive • Wilson, North Carolina 27893  
252-243-0150 • 252-243-4603 (fax) • www.emcoretail.com

# A1100 Guardian Overfill Prevention System

- **Drain Bleed Valve** for hose drainage, reduces unnecessary delays. Spring loaded and includes soft seat for positive seal
- **Protective Retainer** over floats for protection during installation, shipping and operation
- **Cast-in Dip Stick Diverters** permit stick gauging at any tank level without damage to internal parts
- **Vertical Slide Float Design** for protection during installation
- **Auto Relatch** prevents premature shut-off
- **Integrated Body Design** suitable for both dual point and coaxial drop tubes - one valve for all applications
- **Shock Relief Valve** incorporated to reduce line shock
- **Viton® O-Rings** at base of valve seals drop tube to valve to protect against leakage



**S**  
**T**  
**R**  
**A**  
**I**  
**G**  
**H**  
**T**  
**D**  
**R**  
**O**  
**P**



Assemblies are factory welded; bottom tube screws to top tube/valve assembly. **No Epoxy**

Assemblies are vapor tight and meet the EPA 40 CFR Part 63 requirements.

All standard A1100 variants are acceptable for use with up to E25 ethanol blend gasoline and B20 Biodiesel blends. Higher percentage ethanol or biodiesel require use of the "E" variant.

**R**  
**E**  
**M**  
**O**  
**T**  
**E**  
**F**  
**I**  
**L**  
**L**

**Remote Fill in Sump**      **Remote Fill Buried**

**8' Tank**  
A1100-055SRF  
A1100-055SERF\*

**10' Tank**  
A1100-056SRF  
A1100-056SERF\*

Complete kits include OPV & riser assembly; must use all parts in kit

**OPV Assembly**  
493436EPA Remote Fill Cage  
A1100 Assembly

**Riser Assembly**  
Max burial depth 5' with slip-on, and 5 1/2' with thread-on spill containment  
571210 4.19" ID Tube  
A0079-444 4" NPT Tee  
571209 4.5" Pipe Nipple ID controlled for vapor tight seal

\*Compatible with E85 fuels

The remote fill variants are designed for new or tank level retrofit applications in an 8' or 10' tank buried 46" - 54" from the top of the tank to grade. Tank top access is required. If the tank burial depth is less than 46" or greater than 54", alternate or additional equipment will be required. For additional applications and installation instructions, call Customer Service, 800-234-4394.

For information on Emco Remote Fill Spill Containment, see Remote Fill Piping System Cut Sheet O-1014.

## Specifications

Weight: 4.3 lbs.  
Diameter: 3.76"  
Length: 18.0"

## Materials

Body: Aluminum  
Floats: HDPE  
Seals: Viton®

Viton® is a registered trademark of Dupont Dow Elastomers.

**Guide Specification:** Two stage overfill prevention valve for use in both dual point and coaxial drop tubes, gravity feed systems. Easily installs in a new or existing drop tube assembly for economical compliance with EPA regulations. Internal float design to eliminate any chance of the floats getting caught on tank walls or the riser pipe as well as to prevent float damage during installation. Stick diverter and automatic spring loaded poppet retract from the flow path when the valve is not in operation, allowing for stick gauging at any tank level. Compatible with all standard fuels. Special variants are available for most bulk chemical applications.



### 566675 Drill Fixture

Aligns holes for drilling to ensure vapor-tight seal

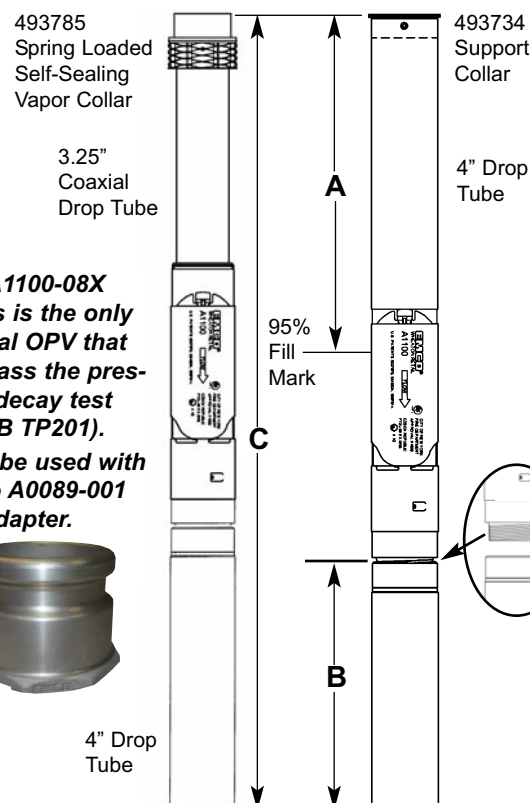
### 571814 Drill Fixture

For use with remote fill ("RF") variants

## Approvals

CARB #99-8  
ULC MH21164  
ATEX FTZU98EX0733  
Florida DEP EQ-414

## Coaxial Self-Sealing A1100-08X Series      Dual Point A1100-05X Series



Model No.	Description	Upper Length A	Lower Length B	Overall Length C	Max. Burial Depth	Nominal Tank Dia.	Weight
A1100-010	Valve Only	N/A	N/A	N/A	N/A	N/A	5.2 lbs.
A1100-010E	Valve Only E85	N/A	N/A	N/A	N/A	N/A	5.7 lbs.
A1100-011	Valve Only Remote Fill Export	N/A	N/A	N/A	N/A	N/A	5.0 lbs.
A1100-054S	Remote Fill Export	50"	100"	162"	N/A	N/A	28.5 lbs.
A1100-054SC	Remote Fill w/Cage BSPT Export	50"	100"	158"	N/A	N/A	27.9 lbs.
A1100-054SCN	Remote Fill w/Cage NPT	50"	100"	162"	N/A	N/A	25.0 lbs.
A1100-055SRF	Remote Fill Assembly and Kit	73"	83"	168"	4.0'	8'	64.3 lbs.
A1100-055SERF	Remote Fill Assembly and Kit E85	73"	83"	168"	4.0'	8'	64.5 lbs.
A1100-056SRF	Remote Fill Assembly and Kit	85"	95"	192"	4.0'	10'	66.5 lbs.
A1100-056SERF	Remote Fill Assembly and Kit E85	85"	95"	192"	4.0'	10'	66.7 lbs.
A1100-053S	Dual Pt Screw Together	60"	50"	122"	5.0'	6'	22.1 lbs.
A1100-055S	Dual Pt Screw Together	73"	83"	168"	6.0'	8'	25.2 lbs.
A1100-056S	Dual Pt Screw Together	85"	95"	192"	7.0'	10'	27.2 lbs.
A1100-057S	Dual Pt Screw Together	85"	121"	218"	6.8'	12'	30.3 lbs.
A1100-058S	Dual Pt Screw Together	123"	121"	256"	10.0'	12'	31.0 lbs.
A1100EVR-057E	Dual Pt Screw Together EVR E85	85"	121"	218"	6.8'	12'	30.5 lbs.
A1100-065S	Coaxial Screw Together Non-EPA CFR 40	67.5"	95"	163"	5.6'	8'	21.9 lbs.
A1100-066S	Coaxial Screw Together Non-EPA CFR 40	67.5"	107"	175"	5.5'	10'	24.7 lbs.
A1100-067S	Coaxial Screw Together Non-EPA CFR 40	67.5"	133"	201"	5.3'	12'	22.5 lbs.
A1100-085S	Coaxial Self-Sealing Screw Together	67.5"	95"	163"	5.4'	8'	23.0 lbs.
A1100-086S	Coaxial Self-Sealing Screw Together	67.5"	107"	175"	5.3'	10'	26.3 lbs.
A1100-087S	Coaxial Self-Sealing Screw Together	67.5"	133"	201"	5.1'	12'	28.0 lbs.
A1100-087E	Coaxial Self-Sealing Screw Together E85	67.5"	133"	201"	5.1'	12'	28.0 lbs.

The A1100 Overfill Prevention Valve is not recommended for tanks under 6.5' in diameter.

Lengths A and B are measured from the shut-off point. Maximum burial depth assumes 95% shut-off and 6" clearance between top of drop tube and inside bottom of containment manhole lid.

Custom lengths available. OPV systems can be ordered as a package with a fill cap and fill adapter. Call Customer Service for ordering information.