

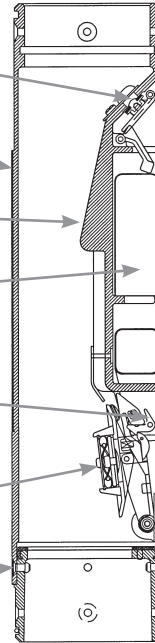
Overfill Prevention Valve

A1100 Guardian Overfill Prevention Valve

The Emco Wheaton A1100 is a 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.



- **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



Material

Body: Aluminum
Floats: HDPE
Seals: Viton®

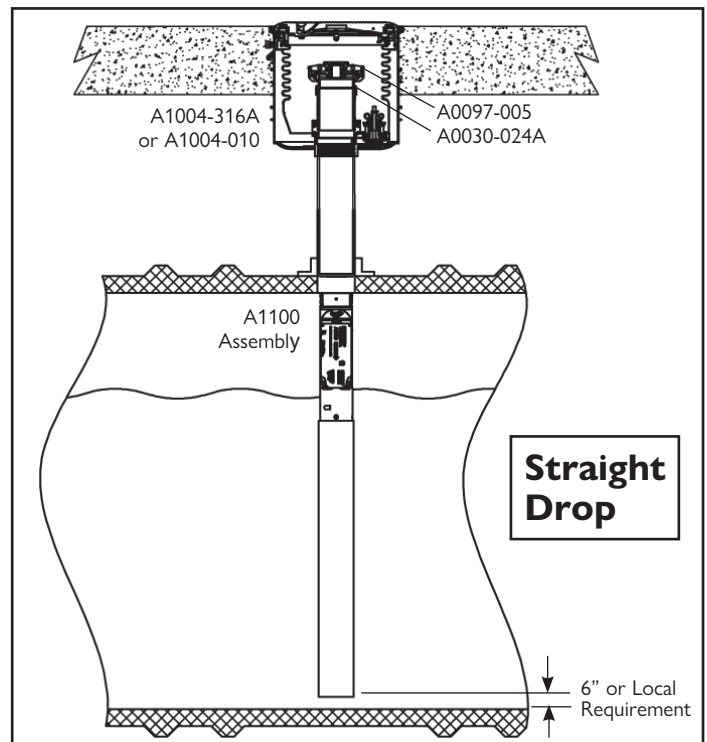
Viton® is a registered trademark of The Chemours Company

Specifications

Weight: 5.2 lbs.
Diameter: 3.76"
Length: 18.0"

Approvals

UL 2583 Listed (MH21164)
Florida DEP EQ-414
CARB Executive Order VR-105*
EPA 40 CFR Part 63 Compliant
*Select Models



Overfill Prevention Valve

A1100 Guardian Coaxial Overfill Prevention Systems

The Emco A1100-08X OPV's are factory welded and vapor tight; no epoxy needed. The A1100-08X OPV's meet 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. A higher percentage of ethanol or biodiesel requires the use of the "E" variant. A1100 coaxial assemblies are not compatible with the Emco 494096 Riser Seal.

Note: must be used with the Emco A0089-001 Fill Adapter.

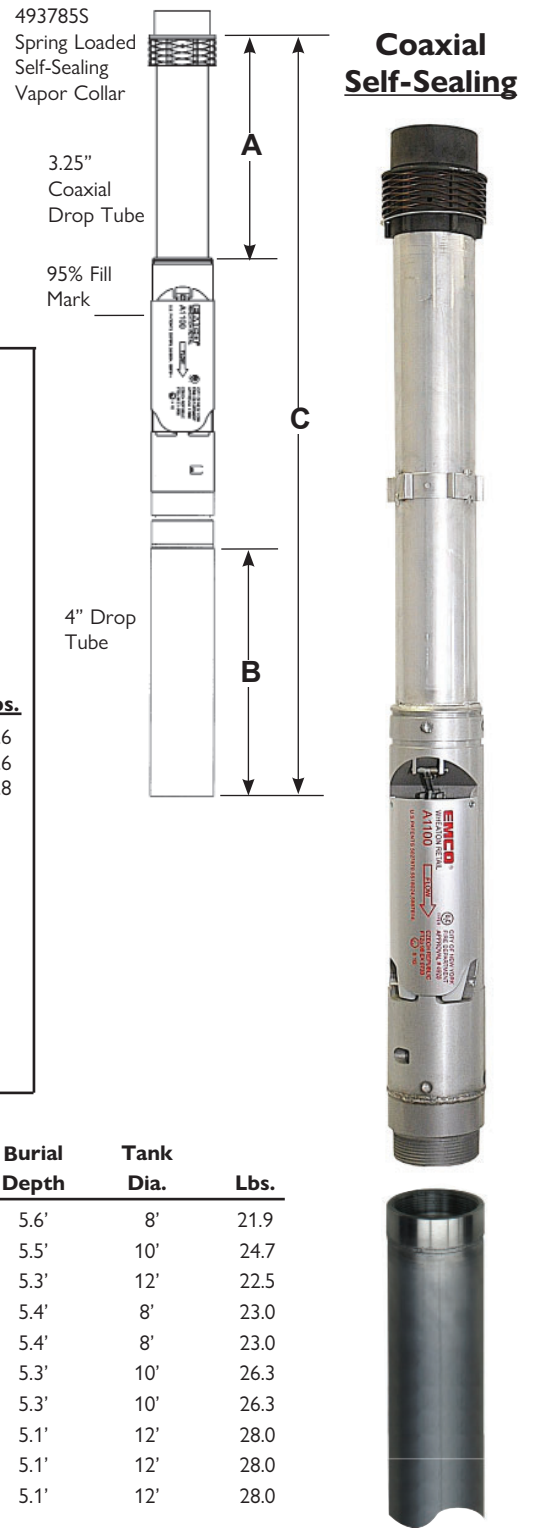
A0089/A0096 Coaxial Fill Adapters

Emco Wheaton Coaxial Vapor Recovery Adapters are designed for standard coaxial fill systems and coaxial systems with self-sealing vapor lines. Features recessed threads for easy installation and positive seating on riser pipes. Use with the A0097 Fill Cap. Use Emco Wheaton A0081 Adapter Wrench for installation.

The A0089 and A0096 are notched for use with the A0032-001 Adapter Clamp to comply with EPA 40 CFR Part 63 requirements.

Model No.	Use With	Size	A	Lbs.
A0089-001	Coaxial Self Sealing : A1100-08X, A0088	4" Female NPSM	3.0"	1.6
A0089-001E	Coaxial Self Sealing , E85: A1100-08X, A0088	4" Female NPSM	3.0"	1.6
A0096-001	Coaxial: A1100-06X, A0070	4" Female NPSM	2.5"	1.8

Material
Body: Aluminum



Model No.	Description	Max Top "A"	Bottom "B"	Overall "C"	Burial Depth	Tank Dia.	Lbs.
* A1100-065S	Coaxial Screw Together	65"	82"	162"	5.6'	8'	21.9
* A1100-066S	Coaxial Screw Together	65"	94"	174"	5.5'	10'	24.7
* A1100-067S	Coaxial Screw Together	65"	120"	200"	5.3'	12'	22.5
A1100-085S	Coaxial Self-Sealing Screw Together	65"	82"	162"	5.4'	8'	23.0
** A1100-085SP	Coaxial Self-Sealing Screw Together	65"	82"	162"	5.4'	8'	23.0
A1100-086S	Coaxial Self-Sealing Screw Together	65"	94"	174"	5.3'	10'	26.3
** A1100-086SP	Coaxial Self-Sealing Screw Together	65"	94"	174"	5.3'	10'	26.3
A1100-087S	Coaxial Self-Sealing Screw Together	65"	120"	200"	5.1'	12'	28.0
** A1100-087SP	Coaxial Self-Sealing Screw Together	65"	120"	200"	5.1'	12'	28.0
A1100-087E	Coaxial Self-Sealing Screw Together E85	65"	120"	200"	5.1'	12'	28.0

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

Custom lengths available. Contact Customer Service at 800-234-4394 for ordering information.

Self-sealing variants are available with a 95" top tube. To order, add an "L" to the end of the variant number.

Maximum burial depth assumes 95% shut-off and 6" clearance between top of drop tube and inside bottom of containment manhole lid.

* The A1100-06X series are non-poppeted and will not pass the pressure decay test. The -06X series must be used with the Emco A0096-001 Fill Adapter.

** P variants include an A0097-005 Fill Cap and A0089-001 Fill Adapter.

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Replacement Parts

Dual Point

Top and bottom tube assemblies can be purchased separately:

Top tube assemblies include upper tube and valve assembly.

Bottom tube assemblies include lower tube and bushing assembly.

Model No.	Description	Length
A1100EVR-055ST	Top Tube Assembly	85"
A1100EVR-056ST	Top Tube Assembly	97"
A1100EVR-057ST	Top Tube Assembly	97"
A1100EVR-058ST	Top Tube Assembly	135"
494406A	Bottom Tube Assembly	83"
494441A	Bottom Tube Assembly	95"
494341A	Bottom Tube Assembly	121"

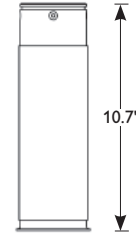


Top Tube Assembly

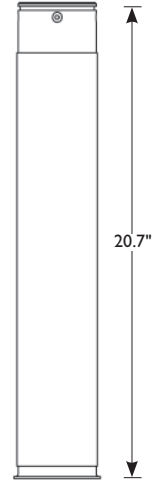


Bottom Tube Assembly

Extended Collar Kits



493734SXL
Increases tube length as much as 8" after standard collar is removed



493734SXXL
Increases tube length as much as 18" after standard collar is removed

Coaxial

Top and bottom tube assemblies can be purchased separately:

Top tube assemblies include upper tube and valve assembly.

Bottom tube assemblies include lower tube and bushing assembly.

Model No.	Description	Length
A1100-065ST	Top Tube Assembly	80"
A1100-066ST	Top Tube Assembly	80"
A1100-067ST	Top Tube Assembly	80"
A1100-085ST	Top Tube Assembly	80"
A1100-086ST	Top Tube Assembly	80"
A1100-087ST	Top Tube Assembly	80"
494406A	Bottom Tube Assembly	83"
494441A	Bottom Tube Assembly	95"
494341A	Bottom Tube Assembly	121"



Top Tube Assembly



Bottom Tube Assembly