

**EMCO®**  
WHEATON RETAIL



**Service Station Equipment**

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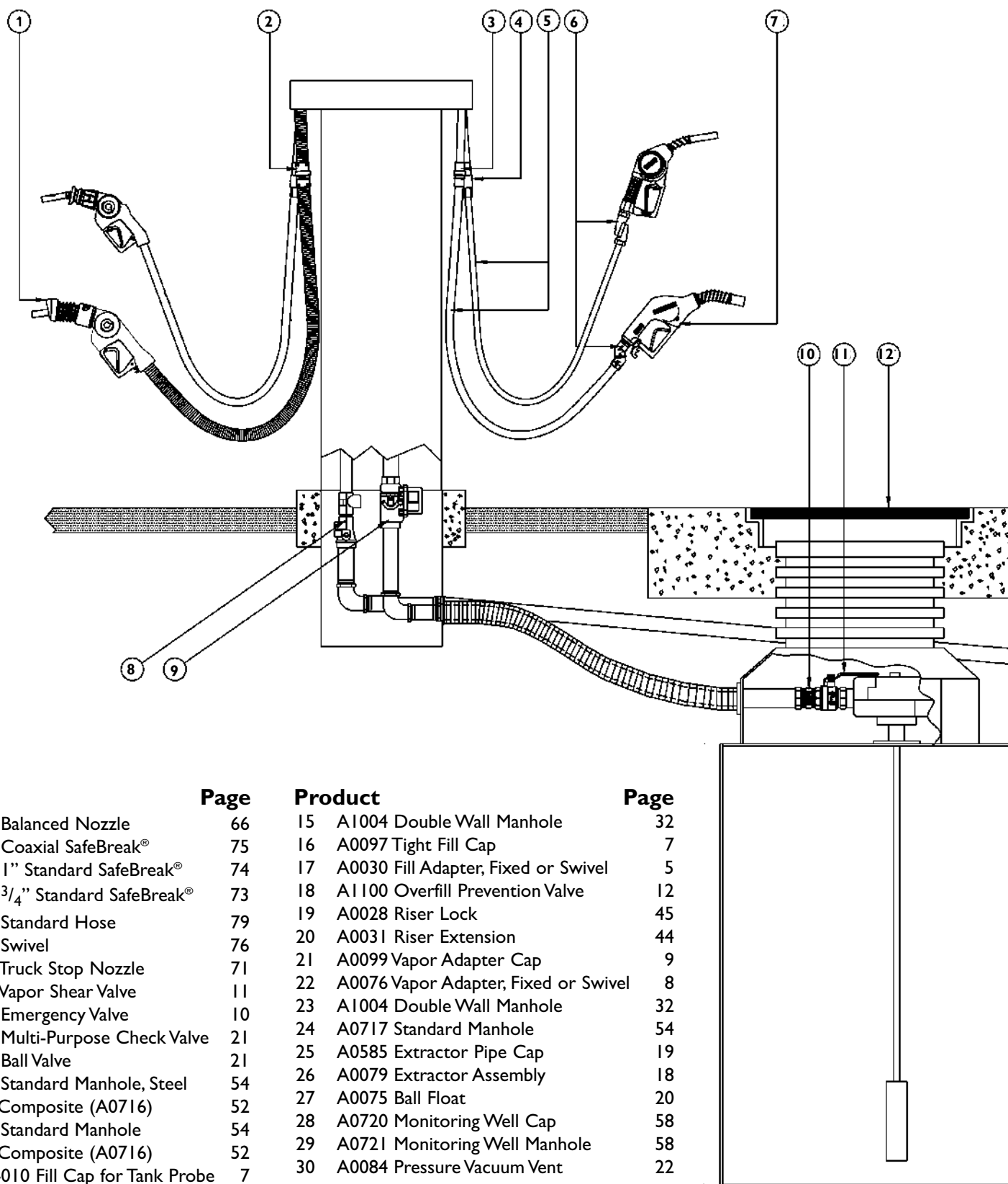
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88-90

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# Service Station Layout



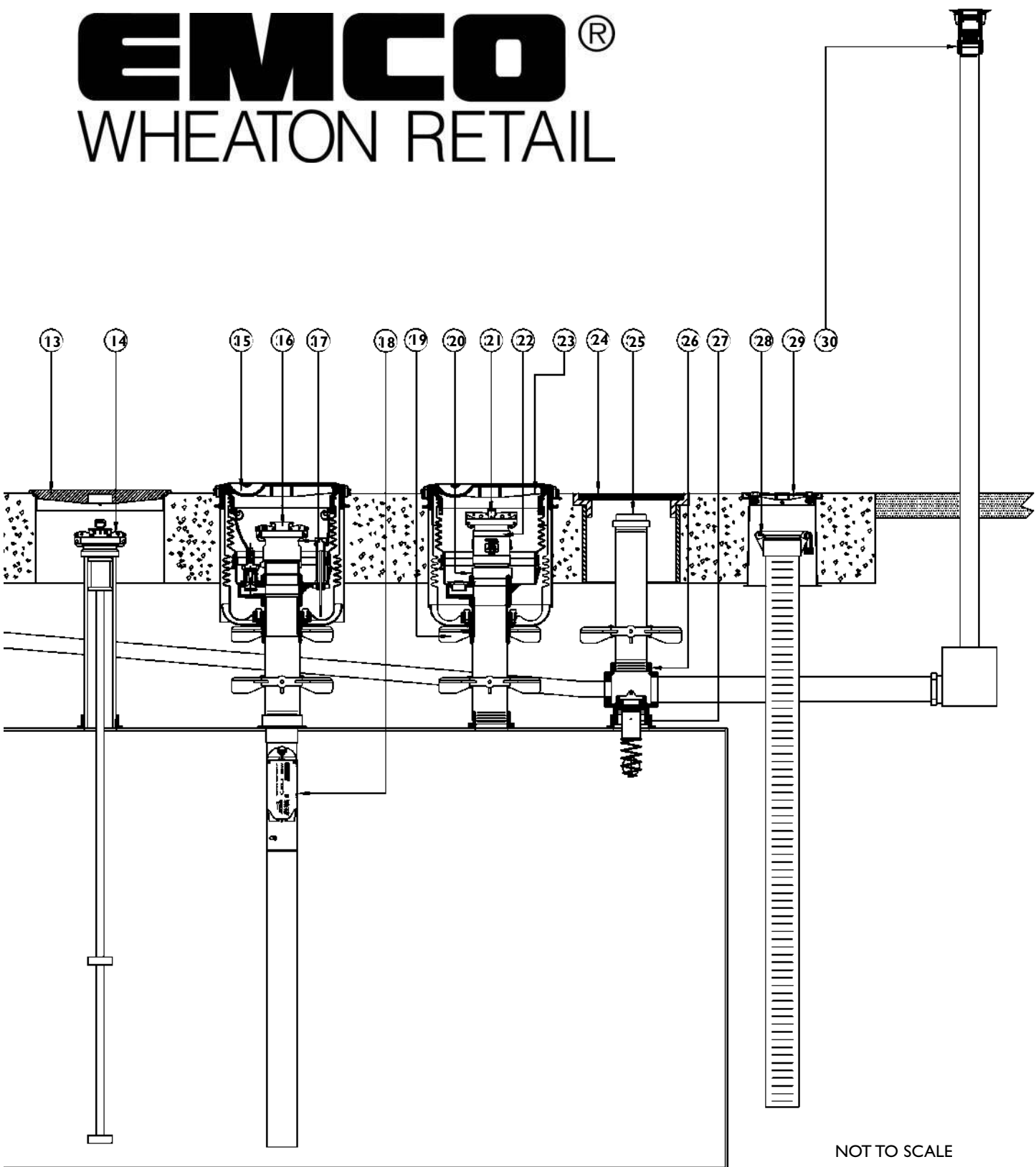
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# EMCO® WHEATON RETAIL



NOT TO SCALE







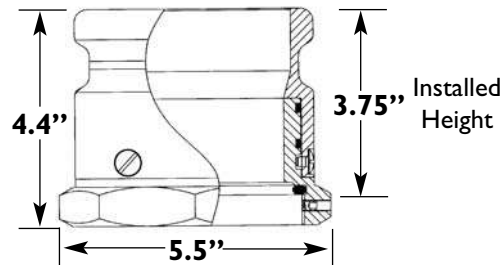
# Fill Adapters

## A0030-I24S Fill Swivel Adapter

### Material

Body: Brass  
O-rings: Viton®  
Gasket: Buna-N

Viton® is a registered trademark of DuPont Dow Elastomers.



The Emco Wheaton A0030-I24S Swivel Adapter prevents accidental loosening of the adapter from the fill pipe. The adapter incorporates two set screws that are tightened after torquing the adapter. These screws prevent the adapter from becoming loose. Use with the A0097 Fill Cap. The A0030-I24S is **field serviceable** with o-ring kit p/n 494301 and gasket kit p/n 409628. Use the Emco Wheaton A0081 Adapter Wrench for installation.

■ Approved under Phase I EVR  
Executive Order VR-105  
Complies with EPA 40 CFR Part 63



Model No.	Thread Size	Cam & Groove	Weight
A0030-I24S	4" Female NPSM	4"	8.4 lbs.

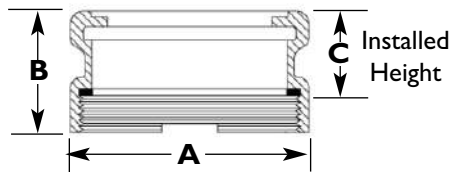
409628 Gasket Replacement Kit

494301 O-ring Replacement Kit

## A0030 Fill Adapter

### Material

Body: See table below  
Gasket: Buna-N



The Emco Wheaton A0030 Adapter is designed for use with conventional dual point fill systems. Features recessed threads for easy installation and positive seating on riser pipes. Use with the A0097 Fill Cap.

■ CARB E.O. G-70-97-A  
ULC Listed MH27242

The A0030-024 series are notched for use with the A0032-001 Adapter Clamp to comply with EPA 40 CFR Part 63 requirements.

Model No.	Material	Thread Size	Lugs	Cam & Groove	Weight	A	B	C
**A0030-014	Aluminum	4" Female NPSM	No	4"	1.8 lbs.	5.5"	4.0"	2.0"
A0030-024	Brass	4" Female NPSM	Yes	4"	2.6 lbs.	4.9"	2.5"	1.7"
*A0030-024A	Aluminum	4" Female NPSM	No	4"	1.0 lbs.	4.9"	2.5"	1.7"
A0030-024BA	Aluminum	4" Female BSPP	Yes	4"	1.0 lbs.	4.9"	2.5"	1.7"

\* Most common variant

\*\* Phase I EVR E.O.VR-105

409628 Gasket Replacement Kit

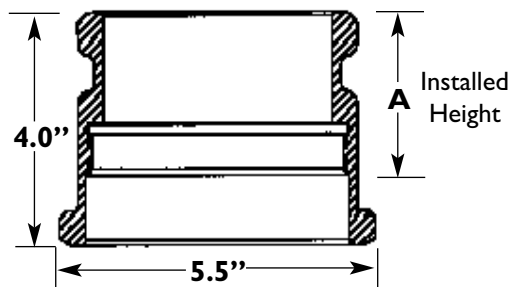


# Fill Adapters

## A0089, A0096 Coaxial Fill Adapters

### Material

Body: Aluminum



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.

The A0089 is used with self-sealing drop tube assemblies.

Model No.	Use With	Size	A	Weight
A0089-001	A0088	4" Female NPSC	3.0"	1.6 lbs.
A0096-001	A0070	4" Female NPSC	2.5"	1.8 lbs.

## A0032-001 Adapter Clamp



### Material

Body: Aluminum



The Emco Wheaton A0032-001 Adapter Clamp installs on the riser pipe or pipe nipple. The A0032 is used with the following non-swivel adapters: A0089, A0096, A0030-024, A0030-024A, A0076-005 and A0076-010. The tabs are aligned with the notches on the adapter, and the three set screws are tightened to prevent the adapter from loosening in use, in compliance with EPA 40 CFR Part 63 requirements.

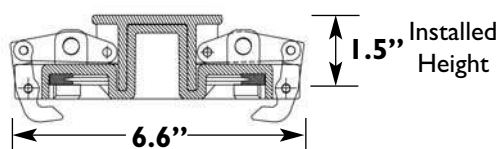
Model No.	Material	Size	Weight
A0032-001	Aluminum	4"	0.7 lbs.

# Fill Caps

## A0097 Fill Cap

### Material

Body: Aluminum  
Cams: Brass  
Links: Steel  
Seal: Buna-N



The Emco Wheaton A0097-005 series Top Seal Fill Cap is designed for use on conventional A0030 or coaxial A0089 and A0096 Adapters. The cap is lockable and features a self-aligning, toggle-action design with center collar to prevent breakage; made of corrosion resistant aluminum.

Model No.	Cam & Groove	Weight
A0097-005	4"	1.6 lbs.
563939	Replacement Gasket	

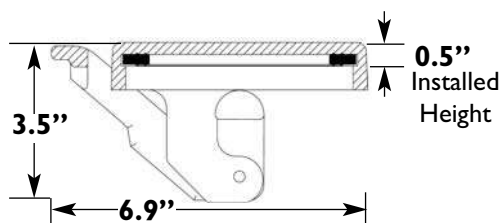


■ CARB E.O. G-70-97-A  
Approved under Phase I EVR  
Executive Order VR-105  
Complies with EPA 40 CFR Part 63

## A0097-004LP Low Profile Fill Cap

### Material

Body: Aluminum  
Lever: Ductile Iron  
Gasket: Buna-N



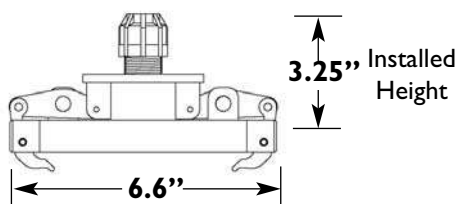
The A0097-004LP Low Profile Fill Cap is designed for use when there is limited space between the top of the adapter and the spill containment lid. The cap is painted gray.

Model No.	Cam & Groove	Weight
A0097-004LP	4"	3.5 lbs.
563939	Replacement Gasket	

## A0097-010 Fill Cap

### Material

Body: Aluminum  
Cams: Brass  
Links: Steel  
Seal: Buna-N



The A0097-010 Fill Cap has the same features of the A0097-005 Fill Cap and is designed with a grommet to allow a cable to pass through the cap. The A0097-010 comes with two sizes of leak tight connector nut fittings: .125"-.375" and .190"-.250".

Model No.	Cam & Groove	Weight
A0097-010	4" For Tank Probe	1.7 lbs.
563939	Replacement Gasket	



■ Approved under Phase I EVR  
Executive Order VR-105

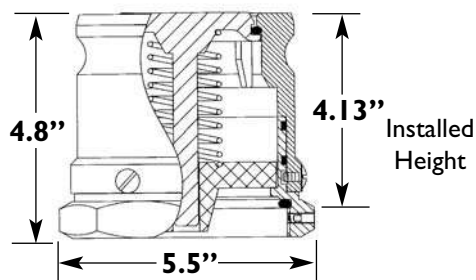
# Vapor Adapters

## A0076-I24S Vapor Swivel Adapter

### Material

Body: Brass  
O-rings: Viton®  
Gasket: Buna-N

Viton® is a registered trademark of DuPont Dow Elastomers.



- Approved under Phase I EVR Executive Order VR-105  
Complies with EPA 40 CFR Part 63



The Emco Wheaton A0076-I24S Vapor Swivel Adapter prevents accidental loosening of the adapter from the vapor pipe. The adapter incorporates two set screws that are tightened after torquing the adapter. These screws prevent the adapter from becoming loose. The A0076-I24S is **field serviceable** with o-ring kit p/n 494301. Use with the A0099-002 Vapor Cap. Use the Emco Wheaton A0081 Adapter Wrench for installation.

Model No.	Thread Size	Cam & Groove	Weight
A0076-I24S	4" Female	4"	9.4 lbs.

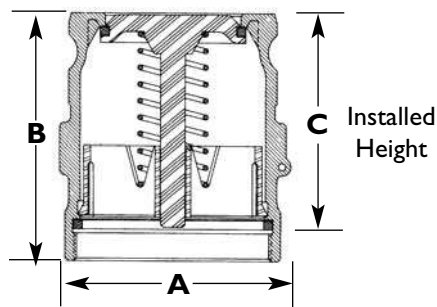
409628 Gasket Replacement Kit

494301 O-ring Replacement Kit

## A0076 Vapor Adapter

### Material

Body: Aluminum  
Gasket: Buna-N



The Emco Wheaton A0076 Vapor Adapter is used in dual point fill systems on the vapor return line. It features a poppet design which seals off the vapor path and external lugs on the adapter body for easy installation. Use with the A0099-002 Vapor Cap.

- CARB E.O. G-70-97-A  
ULC Listed MH27242

The A0076-005 is notched for use with the A0032-001 Adapter Clamp to comply with EPA 40 CFR Part 63 requirements.

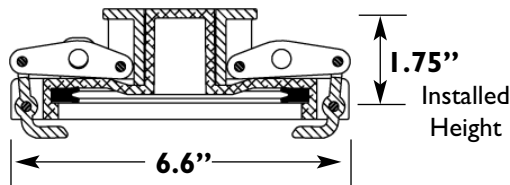
Model No.	Thread Size	Cam & Groove	Weight	A	B	C
A0076-002	3" Female NPSM	4"	2.9 lbs.	4.7"	5.6"	5.00"
* <b>A0076-005</b>	4" Female NPSM	4"	3.1 lbs.	4.9"	5.6"	4.88"
A0076-009	3" Female BSPP	4"	2.1 lbs.	4.7"	5.6"	5.00"

562803 Gasket for A0076-005

\*Most common variant

# Vapor Caps

## A0099 Vapor Adapter Cap



### Material

Body: Aluminum  
Cams: Brass  
Links: Steel  
Seal: Buna-N



■ CARB E.O. G-70-97-A  
Approved under Phase I EVR  
Executive Order VR-105  
Complies with EPA 40 CFR Part 63

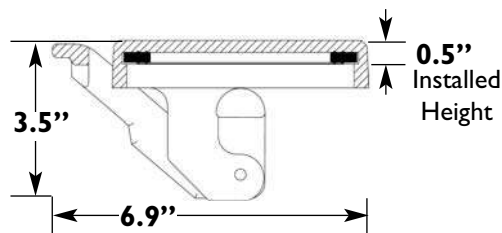
The Emco Wheaton A0099-002/003 Vapor Adapter Cap features a cam system designed for Stage I vapor recovery dual point systems. The cap is lockable and features a self-aligning, toggle-action design with center collar to prevent breakage. The A0099 is made of corrosion resistant aluminum, powdered coated orange for vapor line identification.



Model No.	Cam & Groove	Weight
A0099-002	4"	1.4 lbs.
A0099-003	4" w/chain	1.8 lbs.

563939 Replacement Gasket

## A0099-004LP Low Profile Vapor Adapter Cap



### Material

Body: Aluminum  
Lever: Ductile Iron  
Gasket: Buna-N



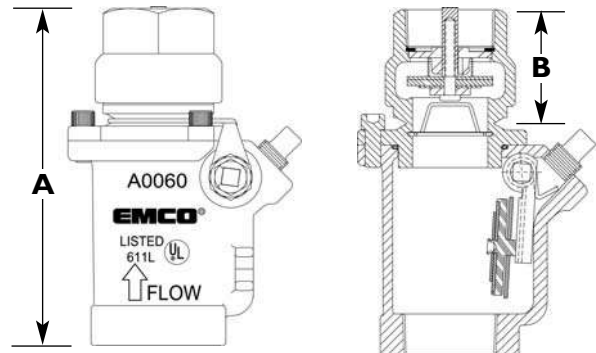
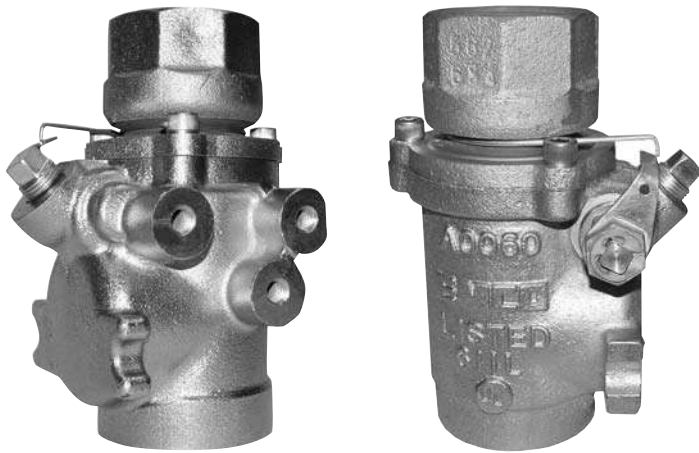
The A0099-004LP Low Profile Cap is designed for use when there is limited space between the top of the adapter and the spill containment lid. The cap is painted orange for vapor line identification.

Model No.	Cam & Groove	Weight
A0099-004LP	4"	3.5 lbs.

563939 Replacement Gasket

# Emergency Shear Valves

## A0060 Underpump Emergency Valve



■ UL Listed  
MH6518

### Material

Body: Cast Iron  
Spring: Stainless Steel  
Seal: Viton®

Viton® is a registered trademark of DuPont Dow Elastomers.

The Emco Wheaton A0060 Emergency Shear Valve incorporates a replaceable shear section and a heat sensitive fusible link assembly. The valve can be manually operated to facilitate dispenser maintenance and incorporates a  $\frac{3}{8}$ " test port. The closing poppet assembly is positioned out of the fuel flow path to minimize pressure drop. The A0060 utilizes a standard three boss mounting arrangement. Available in single or double poppet variants.

### Now Available with Stainless Steel Body and Top for E85/DEF/Ultra Low Sulfur Diesel

Model No.	Stainless Steel	Description	Inlet	Outlet	Weight	A	B
* A0060-002	A0060-002S	1 1/2" Single Poppet	Female	Male	5.7 lbs.	6.9"	2.2"
A0060-003	A0060-003S	1 1/2" Single Poppet	Female	Female	5.6 lbs.	6.7"	1.7"
A0060-015	A0060-015S	1 1/2" Single Poppet	Female BSPT	Male BSPT	5.7 lbs.	7.9"	3.2"
A0060-016	A0060-016S	1 1/2" Single Poppet	Female BSPT	Female BSPT	5.6 lbs.	6.9"	2.2"
A0060-022	A0060-022S	1 1/2" Double Poppet	Female	Male	5.8 lbs.	7.9"	3.2"
A0060-023	A0060-023S	1 1/2" Double Poppet	Female	Female	5.7 lbs.	6.9"	2.2"
A0060-025	A0060-025S	1 1/2" Double Poppet	Female BSPT	Male BSPT	5.8 lbs.	7.9"	3.2"
A0060-026	A0060-026S	1 1/2" Double Poppet	Female BSPT	Female BSPT	5.7 lbs.	6.9"	2.2"

\*Most common variant

### Replacement Parts

Part No.	Description	Outlet	Weight
492938	1 1/2" Replacement Top; 1 Poppet	Male	2.2 lbs.
492939	1 1/2" Replacement Top; 1 Poppet	Female	2.3 lbs.
493885	1 1/2" Replacement Top; 1 Poppet	Female BSPT	1.4 lbs.
493886	1 1/2" Replacement Top; 1 Poppet	Male BSPT	1.6 lbs.
493887	1 1/2" Replacement Top; 2 Poppets	Male	2.7 lbs.
493888	1 1/2" Replacement Top; 2 Poppets	Female	2.7 lbs.
493889	1 1/2" Replacement Top; 2 Poppets	Male BSPT	1.6 lbs.
493890	1 1/2" Replacement Top; 2 Poppets	Female BSPT	1.6 lbs.
492963K	Fusible Link Kit		0.2 lbs.
564036	Control Arm		

**Note:** To order the A0060 Shear Valve with the A0065 Mounting Kit (see following page), replace the first digit of the variant number with a 1. Example: A0060-102, single poppet male with mounting kit.

# Emergency Shear Valves

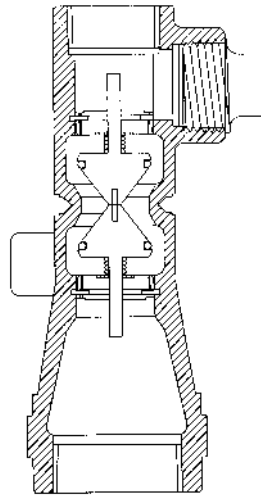
## A0063EVR Vapor Shear Valve



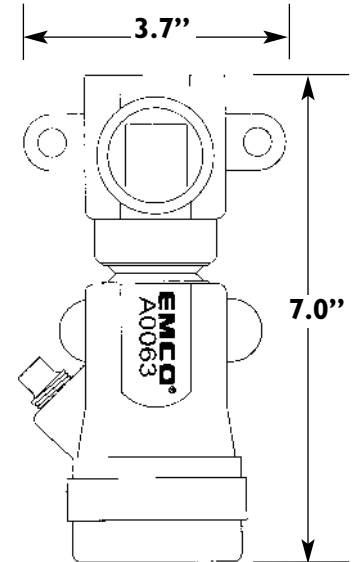
### Material

Body: Cast Iron  
Spring: Stainless Steel  
Seal: Viton®

Viton® is a registered trademark of DuPont Dow Elastomers.



■ UL Listed MH10206



The Emco Wheaton A0063EVR Vapor Shear Valve installs on vapor recovery lines under the dispenser to eliminate the escape of vapors in the event of a collision to the dispenser. The double poppet valve incorporates a 1.5" female NPT connection to the underground piping and a 1" female NPT connection to dispenser piping. The valve incorporates a 3/8" test port. The A0063EVR is approved for use with all CARB certified pre-EVR and EVR Phase II vapor recovery systems. Includes 3 boss mounting hardware.

Model No.	Description	Inlet	Outlet	Weight
A0063EVR-024	1 1/2" Double Poppet	Female	Female	5.2 lbs.

## A0065 Mounting Kit

The Emco Wheaton A0065-001 Mounting Kit is used to mount the A0060 and A0063 to the dispenser pan stabilizer bar. The kit includes 2 U-bolts, 4 lock washers, 4 hex nuts, 3 socket head counter-sunk screws and mounting plate. Weighs 3.8 lbs.

To order the A0065 Mounting Kit with the A0060 Shear Valve, replace the first digit of the variant number with a 1.

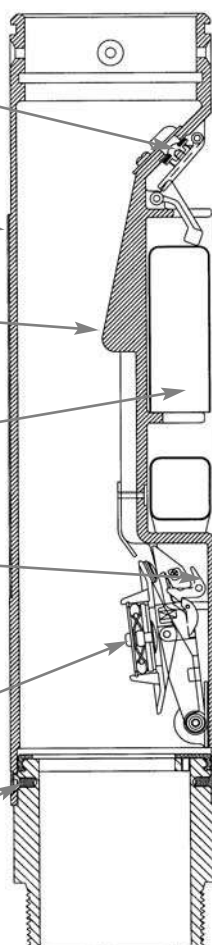
Example: A0060-102, single poppet male with mounting kit.



# Overfill Prevention Valve

## AI100 Guardian Overfill Prevention Valve

- **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



The Emco Wheaton AI100 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.

### Material

Body: Aluminum  
Floats: HDPE  
Seals: Viton®

Viton® is a registered trademark of Dupont Dow Elastomers.

### Specifications

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

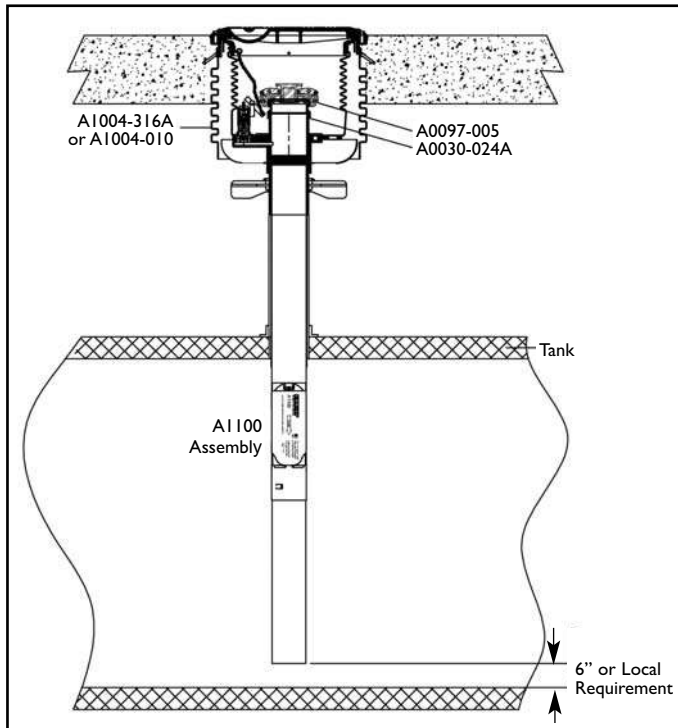
### Approvals

CARB Approval	99-8
ULC	MH21164
City of New York	4928
City of San Diego	
ATEX	FTZU98EX0733
Florida DEP	EQ-414

# Overfill Prevention Valve

## AI100 Guardian Overfill Prevention Systems

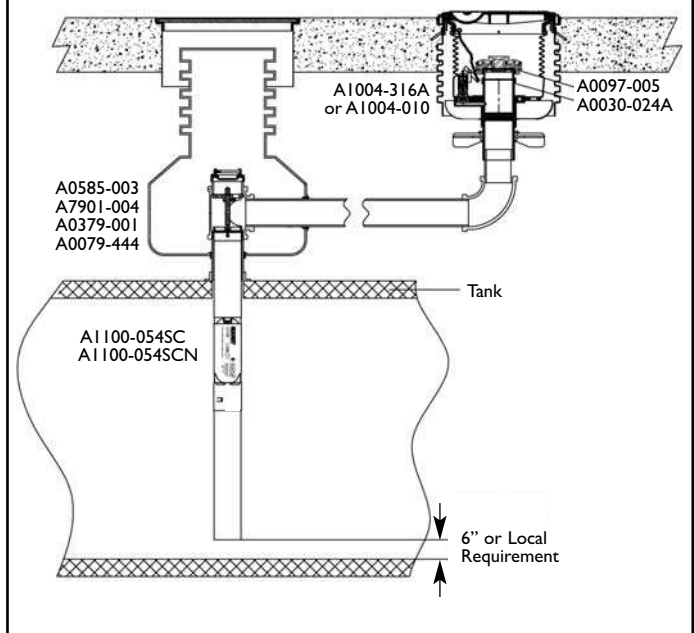
### Straight Drop



### Remote Fill

#### Remote Fill in Sump

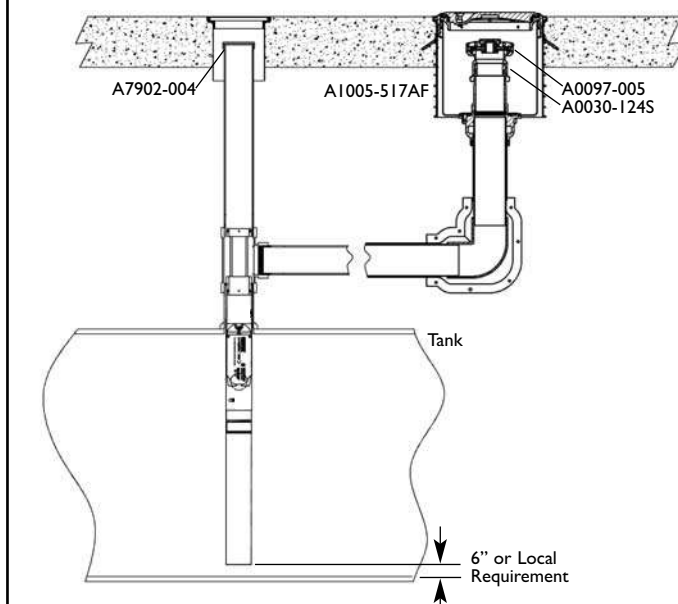
#### Typical European/Asian Application



### Remote Fill

#### Remote Fill Buried

#### Typical USA Application



#### 8' Tank

AI100-055SRF

AI100-055SERF\*

#### 10' Tank

AI100-056SRF

AI100-056SERF\*

Complete kits include two assemblies

#### OPV Assembly



493436  
Remote  
Fill Cage

AI100  
Assembly

\*Compatible  
with E85 fuels

#### Riser Assembly

Sized for 4' tank  
burial



571210  
4.19\"/>

A0079-444  
4\"/>

571209 6\"/>



# Overfill Prevention Valve

## A1100 Guardian Dual Point Overfill Prevention Systems

All 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.

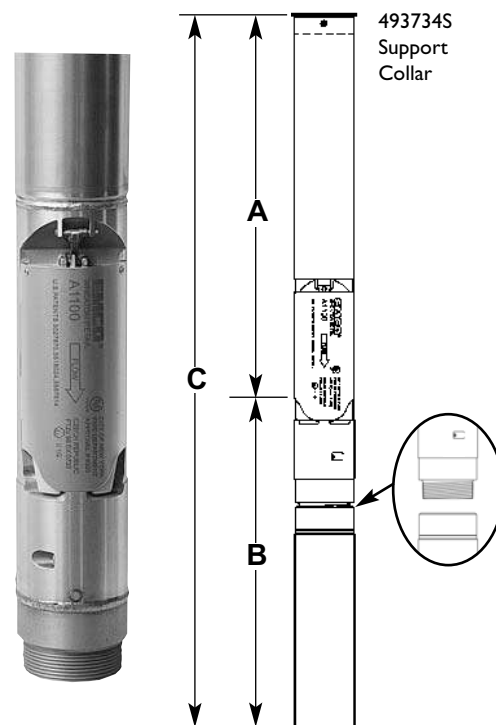
All standard A1100 variants are acceptable for use with up to E25 ethanol blend gasoline and B20 Biodiesel blends. Higher percentage ethanol or biodiesel require use of the “E” variant.

### Accessories:

Model No.	Description
493192	Kit, Assembly Valve to Tube
493436	Remote Fill Kit
493734S	Support Collar
566675	Drill Fixture
A0379-001	Remote Fill Cage Adjustable NPSM
A0379-101	Remote Fill Cage Adjustable BSPP



**566675 Drill Fixture**  
Aligns holes for drilling to ensure vapor-tight seal



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	54"	110"	164"	N/A	N/A	28.5 lbs.
A1100-054SC	Remote Fill w/Cage BSPT Export	54"	110"	164"	N/A	N/A	27.9 lbs.
A1100-054SCN	Remote Fill w/Cage NPT	54"	110"	164"	N/A	N/A	25.0 lbs.
A1100-055SRF	Remote Fill Assembly and Kit	52"	83"	135"	4'	8'	
A1100-056SRF	Remote Fill Assembly and Kit	52"	107"	159"	4'	10'	
A1100-053S	Dual Pt Screw Together	67"	60"	127"	5'	6'	22.1 lbs.
A1100-055S	Dual Pt Screw Together	77"	92"	169"	6'	8'	25.2 lbs.
A1100EVR-055	Dual Pt Screw Together Phase I EVR	77"	92"	169"	6'	8'	25.2 lbs.
A1100-056SE	Dual Pt Screw Together E85	89"	104"	193"	7'	10'	27.4 lbs.
A1100-056S	Dual Pt Screw Together	89"	104"	193"	7'	10'	27.2 lbs.
A1100EVR-056	Dual Pt Screw Together Phase I EVR	89"	104"	193"	7'	10'	27.2 lbs.
A1100-057S	Dual Pt Screw Together	89"	130"	219"	7'	12'	30.3 lbs.
A1100EVR-057	Dual Pt Screw Together Phase I EVR	89"	130"	219"	7'	12'	30.3 lbs.
A1100EVR-057E	Dual Pt Screw Tgthr Phase I EVR, E85	89"	130"	219"	7'	12'	30.5 lbs.
A1100-058S	Dual Pt Screw Together	127"	130"	257"	10'	12'	31.0 lbs.
A1100EVR-058	Dual Pt Screw Together Phase I EVR	127"	130"	257"	10'	12'	31.0 lbs.

OPV systems can be ordered as a package with a fill cap and fill adapter. Contact Customer Service at 800-234-4394 for ordering information.

**The A1100 Overfill Prevention Valve is not recommended for tanks under 6' in diameter.**

Custom lengths available: Please contact our Customer Service Department.

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

# Overfill Prevention Valve

## AI100 Guardian Coaxial Overfill Prevention Systems

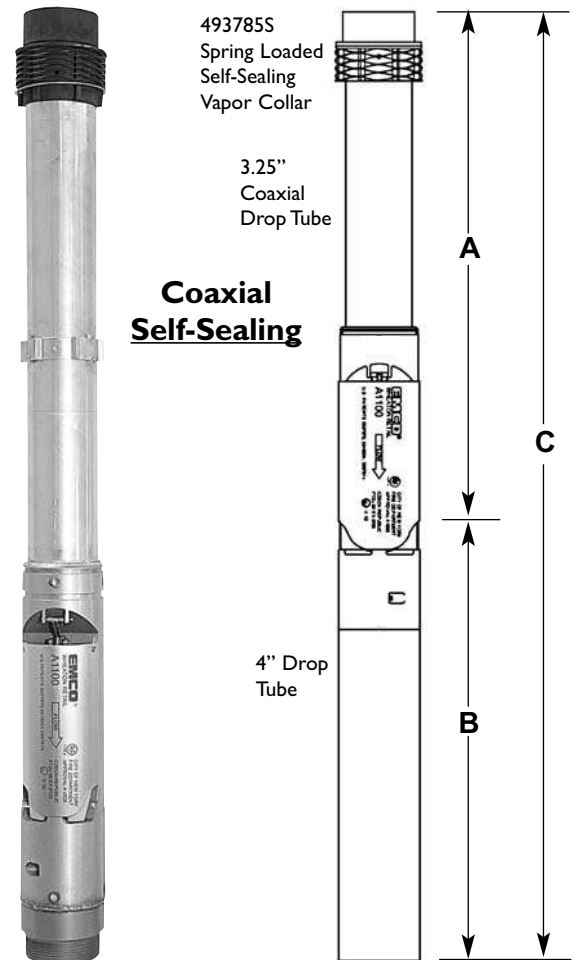
The Emco AI100-08X assemblies are factory welded; bottom tube screws to top tube/valve assembly. No Epoxy. These assemblies are vapor tight and meet the EPA 40 CFR Part 63 requirements.

The Emco AI100-08X Series is the only Coaxial Overfill Prevention Valve that will pass the Pressure Decay Test (CARB TP201).

All standard AI100 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.

### Accessories:

Model No.	Description
493785S	Spring-loaded Self-sealing Vapor Collar



Model No.	Coaxial Screw Together	Upper Length A	Lower Length B	Overall Length C	Max. Burial Depth	Nominal Tank Dia.	Weight
AI100-065S*	Coaxial Screw Together	73"	89"	161"	6.0'	8'	21.9 lbs.
AI100-066S*	Coaxial Screw Together	73"	101"	173"	5.5'	10'	24.7 lbs.
AI100-067S*	Coaxial Screw Together	73"	127"	199"	5.0'	12'	22.5 lbs.
AI100-067E*	Coaxial Screw Together E85	73"	127"	199"	5.0'	12'	22.5 lbs.
AI100-085S	Coaxial Self-Sealing Screw Together	73"	89"	162"	6.0'	8'	23.0 lbs.
AI100-086S	Coaxial Self-Sealing Screw Together	73"	101"	174"	5.5'	10'	26.3 lbs.
AI100-087S	Coaxial Self-Sealing Screw Together	73"	127"	200"	5.0'	12'	28.0 lbs.
AI100-087E	Coaxial Self-Sealing Screw Together E85	73"	127"	200"	5.0'	12'	28.0 lbs.

OPV systems can be ordered as a package with a fill cap and fill adapter. Contact Customer Service at 800-234-4394 for ordering information.

**The AI100 Overfill Prevention Valve is not recommended for tanks under 6' in diameter.**

Custom lengths available: Please contact our Customer Service Department.

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

\*The AI100-06x series are non-poppeted and will not pass the pressure decay test.

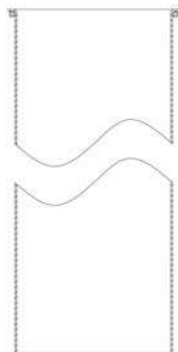
# Drop Tubes

## A0020 Drop Tube

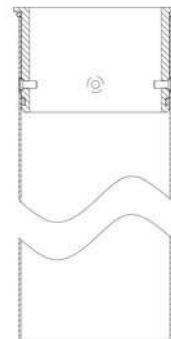
### Material

Tube: Aluminum

O-ring: Buna



Standard Rolled Edge



Heavy Duty Collar Kit  
(p/n 493391) Application

■ CARB Executive Order G-70-97-A

The Emco Wheaton A0020 Drop Tube is designed for use in both conventional non-vapor recovery and dual point vapor recovery systems. Emco drop tubes are a full .05" thick for added strength and to reduce shipping damage. Tube I.D. is 3.815"; O.D. is 3.915". Custom lengths are available upon request.

### Phase I EVR

Model No.	Size	Length	Weight
A0020-004	4"	12'	13.0 lbs.
** A0020-004E	4"	12'	13.0 lbs.
* <b>A0020-005</b>	4"	15'	16.1 lbs.
** A0020-005E	4"	15'	16.1 lbs.
A0020-007	4"	17'	18.2 lbs.
**A0020-007E	4"	17'	18.2 lbs.
A0020-008	4"	14'	14.0 lbs.
A0020-021	4"	21'	22.3 lbs.
*** A0020-133	4"	10'	11.0 lbs.
*** A0020-144	4"	12'	13.0 lbs.

\* Most common variant

\*\* E85

\*\*\* Includes handle

Model No.	Size	Length	Weight
<b>Rolled Edge Collar</b>			
A0020EVR-004	4"	12'	13.0 lbs.
A0020EVR-005	4"	15'	16.1 lbs.
A0020EVR-007	4"	17'	18.2 lbs.
A0020EVR-008	4"	14'	14.0 lbs.
<b>Heavy Duty Collar</b>			
A0020EVR-004	4"	12'	13.7 lbs.
A0020EVR-005	4"	15'	16.8 lbs.
A0020EVR-007	4"	17'	18.9 lbs.
A0020EVR-008	4"	14'	14.7 lbs.

Model No.	Description	Weight
493391	Riser Collar Kit	2.0 lbs.
561683	Collar Gasket	0.5 oz.



493391  
Riser Collar Kit

# Drop Tubes

## A0088 Coaxial Drop Tube (Self-Sealing)

Emco Wheaton's exclusive A0088 Drop Tube is used in coaxial fill systems to provide a self-sealing vapor line. The spring-loaded assembly secures the tube against the adapter during normal storage. When the coaxial elbow is connected, the elbow pushes the tube down from the adapter to create a path for vapor return. Vapor recovery efficiency is rated in excess of 95%. Custom lengths are available upon request.

Model No.	Size	I.D.	O.D.	Length	Weight
A0088-101	4"	3.815"	3.915"	12'	12.4 lbs.
A0088-101A*	4"	3.815"	3.915"	12'	14.0 lbs.
A0088-116	4"	3.815"	3.915"	16'	16.0 lbs.

\*Includes A0089-001 Fill Adapter

Model No.	Description	Weight
493197	Self-Sealing Coax Collar Kit	1.6 lbs.

Adapter: A0089-001

Cap: A0097-005

**Material**  
Tube: Aluminum

■ CARB Executive Order G-70-97-A



## A0070 Coaxial Drop Tube

The Emco Wheaton A0070 Drop Tube is used for coaxial vapor recovery tight fill systems and has a vapor recovery efficiency rate in excess of 95%. The A0070 tube design is narrow at the top but flares out to a standard tube size in the middle. This "vaselike" design helps to decrease flow restriction by creating a pull through effect in the system. Custom lengths are available upon request.

Model No.	Size	I.D.	O.D.	Length	Weight
A0070-101	4"	3.815"	3.915"	12'	12.3 lbs.
A0070-116	4"	3.815"	3.915"	16'	15.9 lbs.

Model No.	Description	Weight
493195	Coax Collar Kit	0.8 lbs.

Adapter: A0096-001

Cap: A0097-005

**Material**  
Tube: Aluminum



# Extractor Fittings

## A0079 Float Valve Extractor

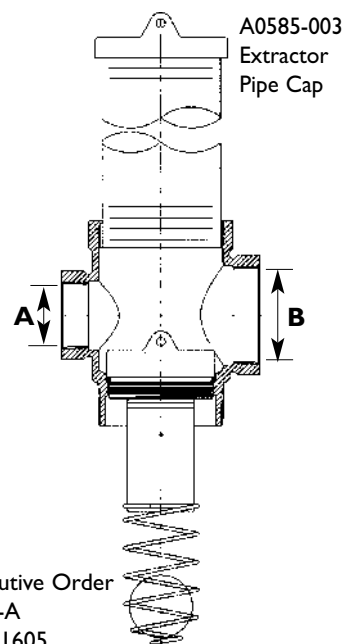
The Emco Wheaton A0079 Extractor Assembly consists of a cast iron extractor body and an internal “bar style” cage. This cage holds any length of A0075 Ball Float (sold separately). The A0079 may be ordered with a variety of port combinations to accommodate tank venting and Stage II vapor recovery piping. The A0079 is also available without an extractor cage for applications that do not require the use of a ball float and is an economical alternative for direct manifold systems.

The A0079 Extractor Assemblies are available with electroless nickel coating for compatibility with E85 fuels. To order, add an E suffix to the part number.

### Material

Extractor Body: Cast Iron

*The A0079 may be installed as part of the Emco Phase I EVR System without violating the Executive Order (VR-105)*



■ CARB Executive Order  
G-70-97-A  
ULC CMH1605

### Cross Style

Model No.	Top/Bottom Thread	Outlet Threads A & B	Cage Size	Weight
<b>Extractor with Cage</b>				
A0079-019	4"	3" x 2"	2"	11.9 lbs.
A0079-020	4"	2" x 2"	2"	10.7 lbs.
A0079-025	4"	3" x 3"	2"	12.0 lbs.
A0079-028	4" BSPT	2" x 2" BSPT	2"	9.6 lbs.
<b>Extractor Body only</b>				
A0079-043	4" BSPT	2" x 2" BSPT	N/A	8.5 lbs.
A0079-050	4"	2" x 2"	N/A	8.5 lbs.
* A0079-051	4"	3" x 2"	N/A	10.8 lbs.
A0079-052	4"	3" x 3"	N/A	11.8 lbs.

\* Most common variant



### Tee Style

Model No.	Top/Bottom Thread	Outlet Threads B	Cage Size	Weight
<b>Extractor with Cage</b>				
A0079-119	4"	3"	2"	14.6 lbs.
A0079-120	4"	2"	2"	10.7 lbs.
A0079-122	4" BSPT	2" BSPT	2"	8.5 lbs.
<b>Extractor Body only</b>				
A0079-150	4"	2"	N/A	7.1 lbs.
A0079-152	4"	3"	N/A	8.7 lbs.
A0079-444	4"	4"	N/A	8.7 lbs.
A0079-444M (male base)	4"	4"	N/A	10.1 lbs.



# Extractor Fittings

## Accessories

### A0179 Extractor Cage

The Emco Wheaton A0179 Extractor Cage is designed with a 3" male thread and a 2" female thread for use with the Emco Wheaton A0079 Extractor Valve and A0075 Ball Float. Use with A0560-003 Bar Style Extractor Wrench.

**Material**

Body: Aluminum  
Handle: Steel  
O-ring: Buna-N

Model No.	Description	Weight
A0179-002	2" Extractor Cage	1.2 lbs.



### A0279 Extractor Cage Test Plug

The Emco Wheaton A0279 Extractor Cage Test Plug is designed for performing pressure decay tests on your underground piping and storage tank systems. Use with A0560-003 Bar Style Extractor Wrench.

**Material**

Body: Aluminum  
Handle: Steel  
O-ring: Buna-N  
Plug: Cast Iron

Model No.	Description	Weight
A0279-001	Test Plug	1.9 lbs.



### A0560 Extractor Wrench

Emco Wheaton Extractor Wrenches are required to install and remove the A0584 and A0585 pipe caps and appropriate angle check, foot, and float valve extractor cages. Two head styles are available - the historic Emco Wheaton Buckeye style wrench and the A0560-003, industry standard "bar style" wrench.

Model No.	Size	Weight	Extractor Pipe Cap	Extractor Fitting
A0560-001 Buckeye	1 1/2"	8.0 lbs.		A0677-003
A0560-002 Buckeye	2"	10.0 lbs.	A0584-003	A0563-002, -004
A0560-003 Bar Style	2"	9.3 lbs.	A0585-003	A0079, A0179, A0279



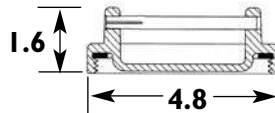
### A0585-003 Extractor Pipe Cap

The Emco Wheaton A0585-003 Bar Style Extractor Pipe Cap is designed to thread directly on the extractor access pipes. Requires the A0560-003 Bar Style Extractor Wrench.

**Material**

Body: Aluminum  
Handle: Steel  
O-ring: Buna-N

Model No.	Size	Weight
A0585-003	4" Female	0.8 lbs.



# Ball Floats

## A0075 Ball Float

The Emco Wheaton A0075 Ball Float Valves are designed to restrict product flow in the event of a UST overfill. The A0075 meets EPA requirements for a slow down device.

The A0075 Ball Float Valves are available with electroless nickel coating for compatibility with E85 fuels. The ball and spring are stainless steel. To order, add an E suffix to the part number.

### Material

Tube: Aluminum  
Ball: Stainless Steel

*The A0075 may be installed as part of the Emco Phase I EVR System without violating the Executive Order (VR-105)*

Model No.	Tube Diameter	Tube Length	Overall Length	Bleed Hole	Weight
*A0075-001	2"	4.75"	9.52"	.125"	1.2 lbs.
A0075-002	2"	9.62"	14.39"	.125"	1.8 lbs.
A0075-004	2"	8.00"	12.77"	.125"	1.6 lbs.
A0075-006	2"	6.87"	11.64"	.062"	1.5 lbs.
A0075-010	2"	18.00"	22.77"	.125"	2.8 lbs.
A0075-013	2"	13.75"	18.52"	.125"	2.4 lbs.
A0075-015	2"	15.75"	20.75"	.125"	2.6 lbs.
A0075-017	2"	17.75"	22.52"	.125"	2.8 lbs.



■ CARB Executive Order  
G-70-97-A

\*Most common variant. Custom lengths are available upon request.

## A0078 Ball Float with Extractor Cage

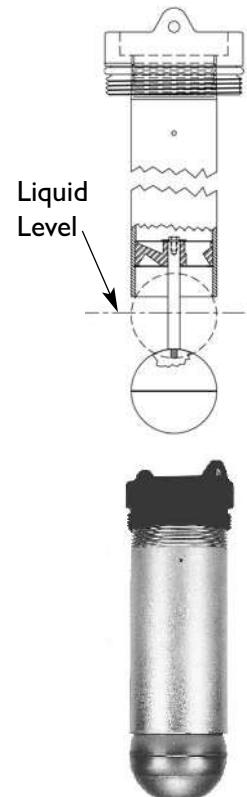
The Emco Wheaton A0078 combination Ball Float and Extractor Valve Cage meet the EPA requirements for a 30 minute warning device.

The A0078 Ball Floats with cages are available with electroless nickel coating for compatibility with E85 fuels. The ball and spring are stainless steel. To order, add an E suffix to the part number.

### Material

Tube: Aluminum  
Ball: Stainless Steel

Model No.	Tube Diameter	Tube Length	Overall Length	Bleed Hole	Weight	Replaces OPW
A0078-006A	2"	6.75"	11.52"	.0625"	2.8 lbs.	53VML-0060
A0078-008	2"	8.75"	13.52"	.0625"	3.2 lbs.	
A0078-008A	2"	8.75"	13.52"	.0625"	3.6 lbs.	
A0078-009A	2"	9.75"	14.52"	.0625"	4.0 lbs.	53VML-2090
A0078-012A	2"	12.75"	17.52"	.0625"	5.3 lbs.	53VML-0120
A0078-015	2"	15.75"	20.52"	.0625"	6.0 lbs.	
A0078-018A	2"	18.75"	23.52"	.0625"	7.6 lbs.	53VML-0180
*A0078-020	2"	20.50"	25.27"	.0625"	7.9 lbs.	
A0078-021A	2"	21.75"	26.52"	.0625"	8.8 lbs.	53VML-0210
A0078-308	3"	8.00"	12.77"	.0625"	3.2 lbs.	
A0078-312	3"	12.13"	16.27"	.0625"	4.5 lbs.	
A0078-318	3"	18.13"	22.27"	.0625"	6.9 lbs.	



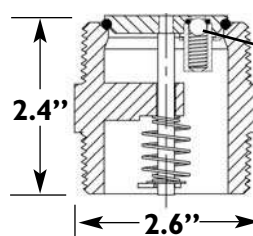
\*Most common variant. Custom lengths are available upon request.

## A0066 Multi-Purpose Check Valve

### Material

Body: Cast Iron  
Poppet: Brass  
Springs: Stainless Steel  
Seal: Viton®

Viton® is a registered trademark of DuPont Dow Elastomers



Pressure relief valve incorporates o-ring seal

Pressure relief setting  
15 psi - 35 psi

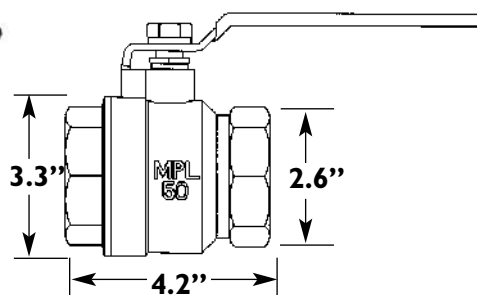
The Emco Wheaton A0066 Multi-Purpose Check Valve is designed to maintain prime and prevent unnecessary tripping of mechanical leak detectors. The A0066 is mounted at the submersible pump to relieve thermal expansion between the pump and dispenser. Vent poppet is designed to provide positive sealing and more accurate pressure relief settings. Heavy wall cast iron body construction.

Model No.	Size	Weight
A0066-020	2"	2.1 lbs.

## A0750 Ball Valve

### Material

Body: Brass  
Seal: Teflon PTFE



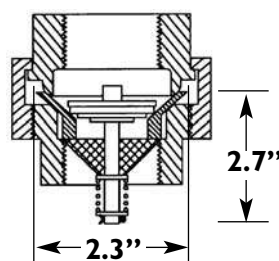
The Emco Wheaton A0750 Ball Valve is a full port 2" valve. Thread depth is .865"; inside diameter is 2". 150 psi working pressure.

Model No.	Size	Weight
A0750-200	2"	4.1 lbs.

## A0732 Underpump Union Check Valve

### Material

Body: Plastic  
Internal Components: Brass



Shown as installed in union coupling

The Emco Wheaton A0732 Union Check Valve is inserted into a standard 1 1/2" union to stop the loss of prime. Body is plastic; all other components are brass. The A0732-002 includes a screen.

Model No.	Size	Weight
A0732-001	1 1/2"	0.4 lbs.
A0732-002	1 1/2"	0.3 lbs.



# Vents

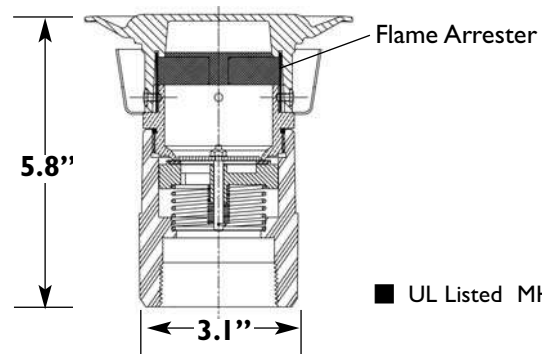
## A0084 Pressure Vacuum Vent

The Emco Wheaton A0084 is an internal pressure vacuum valve that restricts vapor escape during product drops. Typically installs on the top of the vent pipes from the underground or aboveground fuel storage tanks. The vent valve is equipped with a wire mesh screen designed to protect the storage tank vents against intrusion and blockage from rain water and debris. A normally closed poppet within the valve opens to allow the tank to vent (see chart below). The body and cap are anodized aluminum for corrosion-free service. UL Listed.

### Material

Body: Aluminum  
Seal: Viton®  
Cap: Aluminum  
Screen: 40 Mesh Stainless Steel

Viton® is a registered trademark of DuPont Dow Elastomers.



■ UL Listed MH46838

Model No.	Inlet	Pressure Setting	Vacuum Setting	Weight	Replaces
A0084-014	2" BSPT	13.86" H <sub>2</sub> O (8.00oz.)	0.8" H <sub>2</sub> O (0.50oz.)	2.6 lbs.	
A0084-105	2" Slip On	2.00" H <sub>2</sub> O (1.14oz.)	0.8" H <sub>2</sub> O (0.50oz.)	2.0 lbs.	
A0084-200	2" Thread-on	2.00" H <sub>2</sub> O (1.14oz.)	3.0" H <sub>2</sub> O (1.88oz.)	2.0 lbs.	A0084-100
A0084-201	2" Slip On	2.00" H <sub>2</sub> O (1.14oz.)	3.0" H <sub>2</sub> O (1.88oz.)	2.6 lbs.	A0084-101
A0084-204	2" Thread-on	13.86" H <sub>2</sub> O (8.00oz.)	0.8" H <sub>2</sub> O (0.50oz.)	2.9 lbs.	A0084-004
A0084-209	2" Slip On	13.86" H <sub>2</sub> O (8.00oz.)	0.8" H <sub>2</sub> O (0.50oz.)	2.9 lbs.	A0084-009
<b>Meets EPA 40 CFR Part 63 Requirements</b>					
*A0084-038	2" Thread-on	2.5"-6.0" WC	6.0"-10.0" WC	2.9 lbs.	
A0084-103	2" Slip-on	2.5"-6.0" WC	6.0"-10.0" WC	2.6 lbs.	
A0084-338	3" Thread-on	2.5"-6.0" WC	6.0"-10.0" WC	3.5 lbs.	
A0084-303	3" Slip-on	2.5"-6.0" WC	6.0"-10.0" WC	3.2 lbs.	

\*Most common variant

## A0085 Vent Adapters

### Material

Body: Aluminum  
Seal: Buna

Slip-on versions incorporate 3 set screws



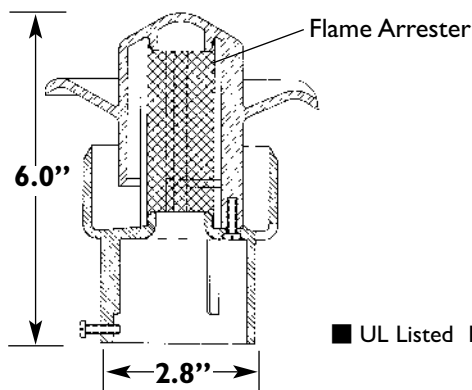
The Emco A0085 is used with A0084 2" vents to connect to 3" riser pipes. Available in thread-on and slip-on versions. Aluminum construction.

Model No.	Description	Weight
A0085-302	3" Thread-on	0.6 lbs.
A0085-302S	3" Slip-on	0.6 lbs.

## A4103 Upward “V” Vent

### Material

Body: Polyethylene  
Cap: Polyethylene  
Screws: Steel  
Screen: 40 Mesh Stainless Steel



■ UL Listed MH10206

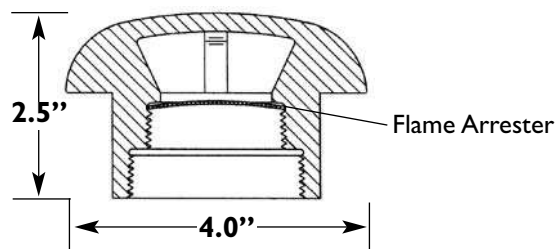
The Emco Wheaton A4103 Upward “V” Vent utilizes a straight-up “V” design to rapidly disperse vapors. Slip-on style vent attaches to the pipe with three screws for easy installation. Screen can be easily removed for cleaning. Designed in accordance with NFPA 30.

Model No.	Inlet	Material	Weight
A4103-002	2"	Polyethylene	0.7 lbs.

## A0785 Downward Mushroom Vent

### Material

Body: Aluminum  
Screen: Brass



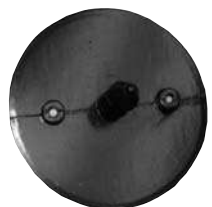
The Emco Wheaton A0785 Downward Mushroom Vent is designed for downward venting of storage tanks. The 30 mesh stainless steel screen can be easily removed for cleaning. The A0785 threads onto either 1.5 or 2.0 inch vent lines. Clear coated aluminum for corrosion-free service.

Model No.	Inlet	Material	Weight
A0785-001	1.5" & 2" Female	Aluminum	1.0 lbs.
A0785-101	1.5" & 2" Female BSPT	Aluminum	1.0 lbs.

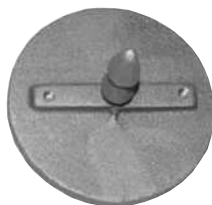
# Product Identification

## A0998 In-Ground ID Marker

The Emco Wheaton A0998 In-Ground ID Marker is used to identify the product grade in the underground tanks. The A0998 is constructed of die cast aluminum for a smooth appearance. The lower profile with beveled edge minimizes tripping hazard. Weighs .35 lbs.



Emco design easy to retrofit for flush mount on hard concrete



Competitor's bar profile does not accommodate retrofit application

\* Available with anodized aluminum and custom etching

<u>Model No.</u>	<u>Description</u>	<u>Model No.</u>	<u>Description</u>
A0998-001	ID Marker #1	A0998-018	ID Marker Low-Sulfur Diesel
A0998-002	ID Marker #2	A0998-019	ID Marker High-Sulfur Diesel
A0998-003	ID Marker #3	A0998-020	ID Marker Mid-Grade
A0998-004	ID Marker #4	A0998-021	ID Marker Regular
A0998-005	ID Marker #5	A0998-027	ID Marker Diesel
A0998-006	ID Marker #6	A0998-028	ID Marker Chevron #2 BioDiesel
A0998-007	ID Marker #7	A0998-029	ID Marker Texaco #2 BioDiesel
A0998-008	ID Marker Chevron Supreme	A0998-030*	ID Marker E-10
A0998-011	ID Marker Chevron Regular	A0998-031*	ID Marker AV-Gas
A0998-012	ID Marker Chevron Diesel	A0998-032	ID Marker Chevron #2 Diesel
A0998-013	ID Marker Chevron Plus	A0998-034*	ID Marker E-85
A0998-014	ID Marker Unleaded	A0998-035*	ID Marker Marine Gas
A0998-015	ID Marker Plus	A0998-036	ID Marker Texaco Premium
A0998-016	ID Marker Premium	A0998-037	ID Marker Texaco Plus
A0998-017	ID Marker Kerosene	A0998-038	ID Marker Texaco Diesel

## A0997 Tank ID Tag

The Emco Wheaton A0997 Tank ID Tag clamps onto the storage tank fill pipe to identify the product grade, tank number and tank size. Tag is black anodized for improved readability. Customized etching is available. Weighs .15 lbs.



<u>Model No.</u>	<u>Description</u>	<u>Model No.</u>	<u>Description</u>
A0997-003	#1 Regular 20,000	A0997-034	Vapor Recovery
A0997-012	#2A Diesel 12,000	A0997-050	Tank #1
A0997-022	#2B Premium 8,000	A0997-051	Tank #2
A0997-027	Unleaded 19,000 gal	A0997-052	Tank #3
A0997-028	Premium 5,000 gal	A0997-053	Tank #4
A0997-029	Clear Diesel 8,000 gal	A0997-054	Tank #5
A0997-030	Super	A0997-055	Tank #6
A0997-031	Mid-Grade	A0997-075	DEF
A0997-032	Regular	A0997-081	Not in Use
A0997-033	Diesel		

## Z0838 Anti-Seize Joint Seal



Emco Wheaton Anti-Seize Joint Seal is recognized as one of the most versatile compounds available for its excellent sealing properties. Resistant to heat, cold and vibration.

Model No.	Size	Weight
Z0838-001	1/8 oz.	0.1 lbs.
Z0838-005	1/2 pint	1.3 lbs.

## Z0839 Super Duty Sealant

The Z0839 Urethane Super Duty Sealant is a general purpose sealant for fuel and water. Net contents 10.3 oz.

Model No.	Weight
Z0839-001	1.2 lbs.

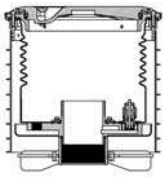
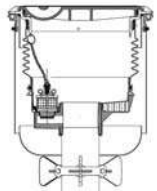
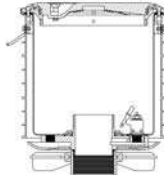
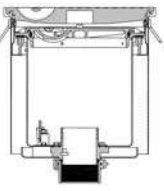
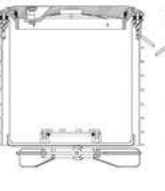
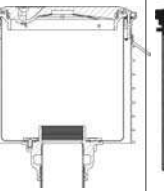
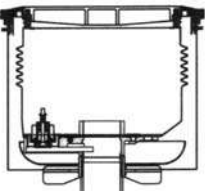


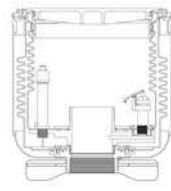
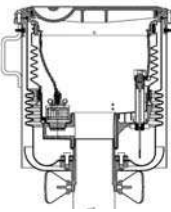
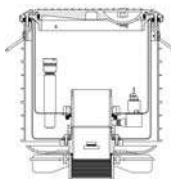
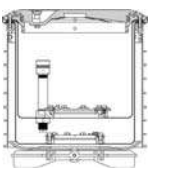
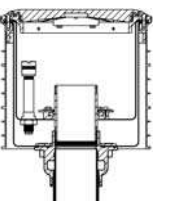
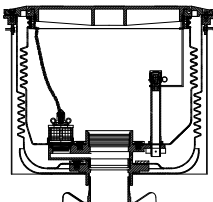


**SPILL  
CONTAINMENT**

# Spill Containment Selection Chart

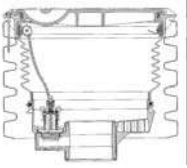
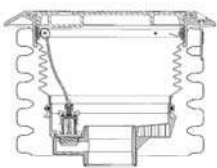
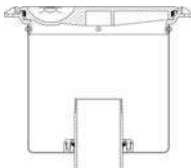

## Replaceable

Single Wall						
5 Gallon						15 Gallon
Poly		Stainless Steel				Poly
<u>Thread On</u>	<u>Thread On</u>	<u>Thread On</u>	<u>Thread On</u>	<u>Slip On</u>	<u>Glass On</u>	<u>Thread On</u>
						
<b>Phase I EVR</b>		<b>Below Grade</b>				<b>Phase I EVR</b>
Drain: AI004-316A	AI004EVR-210A	AI005-518ADR	AI005-518ABG	N/A	N/A	AI004EVR-215A
No Drain: AI004-317A	AI004EVR-211A	AI005-518A	N/A	AI005-517A	AI005-517AF	AI004EVR-216A
Page #: 30	62	31	31	31	31	30,62

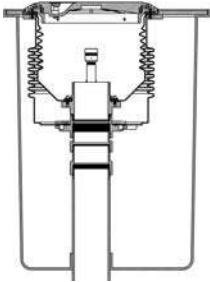
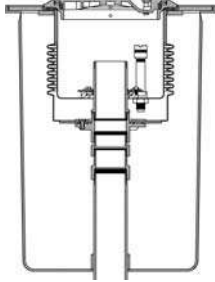

Double Wall						
5 Gallon						15 Gallon
Poly		Stainless Steel				Poly
<u>Thread On</u>	<u>Thread On</u>	<u>Thread On</u>	<u>Slip On</u>	<u>Glass On</u>		<u>Thread On</u>
						
<b>Phase I EVR</b>				<b>Remote Fill</b>		<b>Phase I EVR</b>
Drain: AI004-316S	AI004EVR-210S	AI005-518SG	N/A	N/A		AI004EVR-215S
No Drain: AI004-317S	AI004EVR-211S	AI005-518G	AI005-517G	AI005-517SF		AI004EVR-216S
Page #: 32	62	33	33	33		32,62

# Spill Containment Selection Chart

## Non-Replaceable

5 Gallon		15 Gallon	
Poly		Stainless Steel	
Thread On	Thread On	Slip On	Slip On
			
<b>Slimline</b>	<b>Fatboy</b>		<b>For Tank Monitor</b>
<b>Drain:</b> A1004-010	A1004-003	N/A	N/A
<b>No Drain:</b> A1004-011	A1004-004	A1005-501	A1005-015TM
<b>Page #:</b> 34	34	35	35

## Retrofit

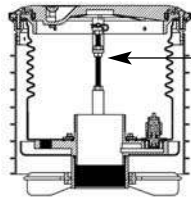
OPW 500/700		Competitor Buckets	
Poly Double Wall	Stainless Steel Primary Poly Secondary	Stainless Steel	
Thread On	Thread On		
			
<b>Drain:</b> A1004-316R	A1005-518RD	<b>Replaces</b>	<b>Page #</b>
<b>No Drain:</b> A1004-317R	A1005-518R	Franklin Fueling	37
<b>Page #:</b> 39	39	Universal	37
		OPW	38
		Fairfield	40
		Pemco	40
		Pomeco	40
		Emco	41-42
		A1005-505C	



# Spill Containment

## Replaceable

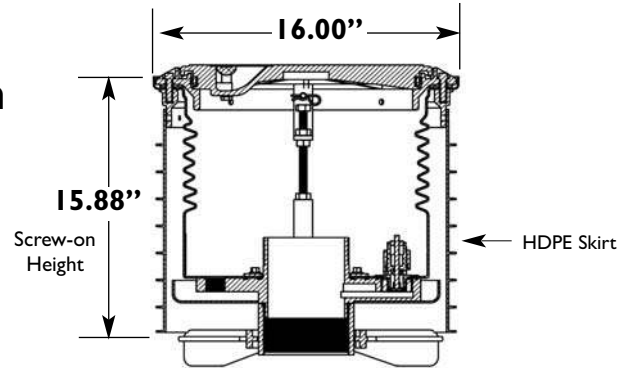
## Single Wall Poly (HDPE)



Adjustment screws allow change in elevation  $\pm 1 \frac{1}{2}$ " (5 gallon models)



### 5 Gallon Thread-On



Replaces all A1004-210 variants  
Installs on 16" centers

■ ULC Listed MH21149  
Florida DEP #EQ-524

**Never Break Concrete** - Easily repair or replace primary unit from grade without breaking concrete

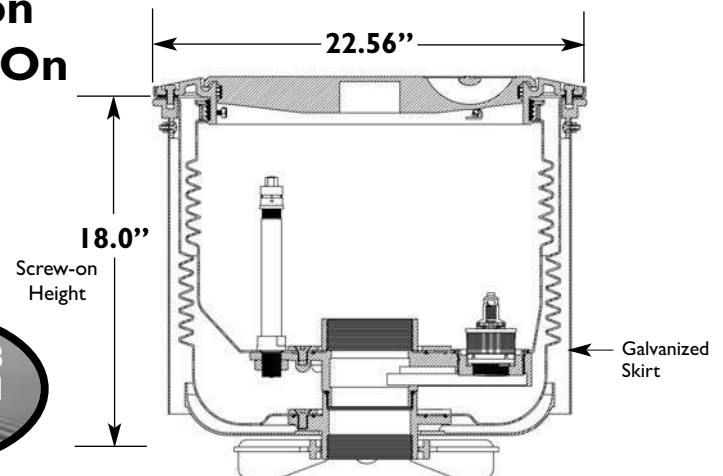
Heavy duty, snow plow resistant ductile iron, powder coated plow rim

Water-resistant cast iron lid with built-in handle and exclusive triple wiper seal, meets AASHTO H20 wheel loading

HDPE Liner

4 inch NPT or BSPT thread

### 15 Gallon Thread-On



■ ULC Listed MH21149  
Florida DEP #EQ-695

**Phase I EVR Certified**  
Executive Order VR-105

Model No.	Description	Application	Lid Dia.	Lid Wt.	Total Wt.
A1004-316A	Single wall poly, 16" center; drain, 5 gal	Fill/Vapor	13.2"	15.9 lbs.	68.9 lbs.
A1004-317A	Single wall poly, 16" center; no drain, 5 gal	Vapor	13.2"	15.9 lbs.	68.4 lbs.
A1004EVR-316A	Single wall poly, 16" center; drain, 5 gal, Phase I EVR	Fill/Vapor	13.2"	15.9 lbs.	68.5 lbs.
A1004EVR-317A	Single wall poly, 16" center; no drain, 5 gal, Phase I EVR	Vapor	13.2"	15.9 lbs.	68.4 lbs.
A1004EVR-215A	Single wall poly, drain, 15 gal, Phase I EVR	Fill/Vapor	17.3"	30.0 lbs.	126.0 lbs.
A1004EVR-216A	Single wall poly, no drain, 15 gal, Phase I EVR	Fill/Vapor	17.3"	30.0 lbs.	126.1 lbs.

Add a "V" to the end of the variant number to include an A0076-124S Vapor Swivel Adapter and A0099-002 Vapor Cap; add an "X" to include an A0030-124S Fill Swivel Adapter and A0097-005 Fill Cap. Refer to pages 48-50 for repair kits and replacement parts.

# Spill Containment

## Replaceable

## Single Wall Stainless Steel

**Never Break Concrete** - Easily repair or replace primary unit from grade without breaking concrete

Installs on 16" centers

Heavy duty, snow plow resistant ductile iron, powder coated plow rim

Water-resistant cast iron lid with built-in handle and exclusive triple wiper seal, meets AASHTO H20 wheel loading

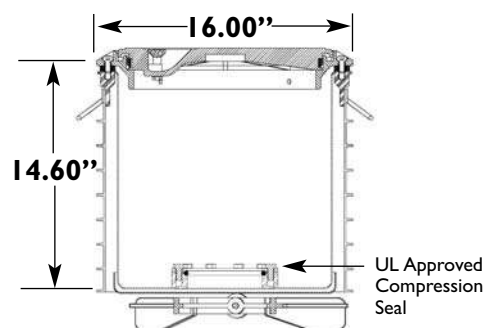
16 gauge stainless steel liner

HDPE skirt



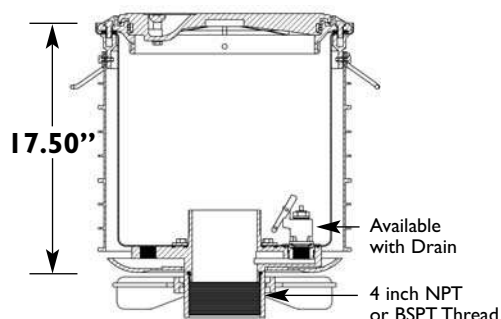
### 5 Gallon Slip-on

■ Florida DEP #EQ-753



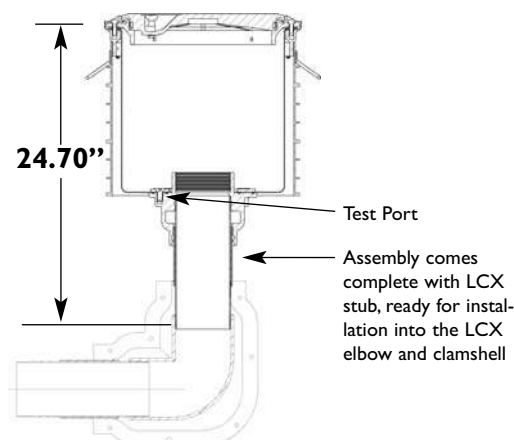
### 5 Gallon Thread-on

■ Florida DEP #EQ-753



### 5 Gallon Glass-On Remote Fill

■ Florida DEP #EQ-753



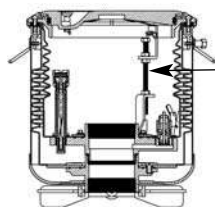
Model No.	Description	Application	Lid Dia.	Lid Wt.	Total Wt.
<b>Slip-on</b>					
A1005-517A	Single wall stainless steel, 16" center; no drain, 5 gal	Fill/Vapor	13.2"	15.9 lbs.	77.0 lbs.
<b>Thread-on</b>					
A1005-518A	Single wall stainless steel, 16" center; no drain, 5 gal	Fill/Vapor	13.2"	15.9 lbs.	
A1005-518ABG	Single wall stainless steel, 16" center; below grade, drain, 5 gal	Fill/Vapor	13.2"	15.9 lbs.	
A1005-518ADR	Single wall stainless steel, 16" center; drain, 5 gal	Fill/Vapor	13.2"	15.9 lbs.	
<b>Glass-on</b>					
A1005-517AF	Single wall stainless steel, 16" center; no drain, 5 gal	Remote Fill	13.2"	15.9 lbs.	77.3 lbs.

Add a "V" to the end of the variant number to include an A0076-124S Vapor Swivel Adapter and A0099-002 Vapor Cap; add an "X" to include an A0030-124S Fill Swivel Adapter and A0097-005 Fill Cap. Refer to pages 48-50 for repair kits and replacement parts.

# Spill Containment

## Replaceable

## Double Wall Poly (HDPE)

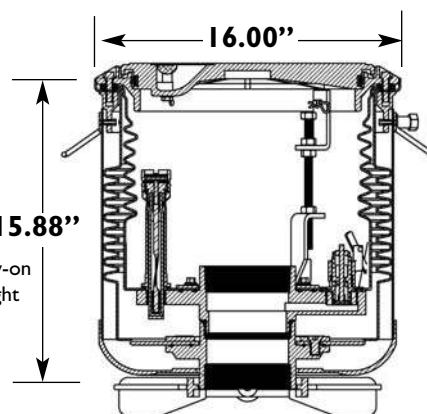


Adjustment screws  
allow change in  
elevation  $\pm 1 \frac{1}{2}$ "  
(5 gallon models)



### 5 Gallon Thread-On

■ ULC Listed MH21149  
Florida DEP #EQ-741



**Replaces all A1004-210 variants**  
**Installs on 16" centers**

**Never Break Concrete** - Easily repair or replace primary unit from grade without breaking concrete

Heavy duty, snow plow resistant ductile iron, powder coated plow rim

Water-resistant cast iron lid with built-in handle and exclusive triple wiper seal, meets AASHTO H20 wheel loading

HDPE liner

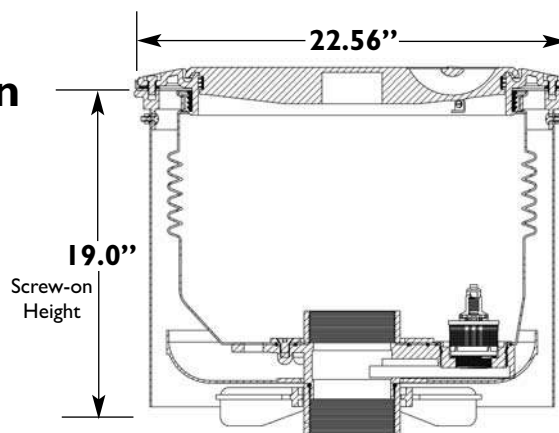
Galvanized skirt

4 inch NPT or BSPT thread

### 15 Gallon Thread-On



■ ULC Listed MH21149  
Florida DEP #EQ-695



**Phase I EVR Certified**  
Executive Order VR-105

Model No.	Description	Application	Lid Dia.	Lid Wt.	Total Wt.
A1004-316G	Double wall poly, 16" center, drain, gauge, 5 gal	Fill/Vapor	13.2"	15.9 lbs.	98.7 lbs.
A1004-316S-CM	Double wall poly, 16" center, drain, sensor, 5 gal	Fill/Vapor	13.2"	15.9 lbs.	100.9 lbs.
A1004EVR-316S	Double wall poly, 16" center, drain, 5 gal, Phase I EVR	Fill/Vapor	13.2"	15.9 lbs.	98.3 lbs.
A1004-316S-CMX	Double wall poly, 16" center, drain, sensor ready, 5 gal	Fill	13.2"	15.9 lbs.	110.9 lbs.
A1004-317G	Double wall poly, 16" center, no drain, gauge, 5 gal	Fill/Vapor	13.2"	15.9 lbs.	98.2 lbs.
A1004EVR-317S	Double wall poly, 16" center, no drain, 5 gal, Phase I EVR	Fill/Vapor	13.2"	15.9 lbs.	98.2 lbs.
A1004-317S-CM	Double wall poly, 16" center, no drain, sensor, 5 gal	Fill/Vapor	13.2"	15.9 lbs.	101.4 lbs.
A1004-215S-CM	Double wall poly, drain, sensor, 15 gal	Fill/Vapor	17.3"	30.0 lbs.	151.6 lbs.
A1004EVR-215S	Double wall poly, drain, 15 gal, Phase I EVR	Fill/Vapor	17.3"	30.0 lbs.	149.4 lbs.
A1004EVR-216S	Double wall poly, no drain, 15 gal, Phase I EVR	Fill/Vapor	17.3"	30.0 lbs.	149.5 lbs.
A1004EVR-215SF4	Glass-on remote fill, double wall poly, drain, 15 gal	Remote Fill	17.3"	30.0 lbs.	
A1004EVR-216SF4	Glass-on remote fill, double wall poly, no drain, 15 gal	Remote Fill	17.3"	30.0 lbs.	

Add a "V" to the end of the variant number to include an A0076-124S Vapor Swivel Adapter and A0099-002 Vapor Cap; add an "X" to include an A0030-124S Fill Swivel Adapter and A0097-005 Fill Cap. Refer to pages 48-50 for repair kits and replacement parts.

# Spill Containment

## Replaceable

## Double Wall Stainless Steel

**Never Break Concrete** - Easily repair or replace primary unit from grade without breaking concrete

Installs on 16" centers

Heavy duty, snow plow resistant ductile iron, powder coated plow rim

Water-resistant cast iron lid with built-in handle and exclusive triple wiper seal, meets AASHTO H20 wheel loading

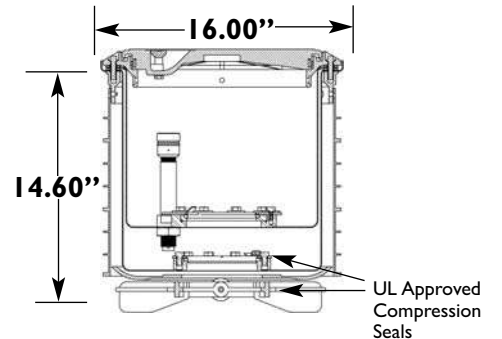
16 gauge stainless steel liners

HDPE skirt



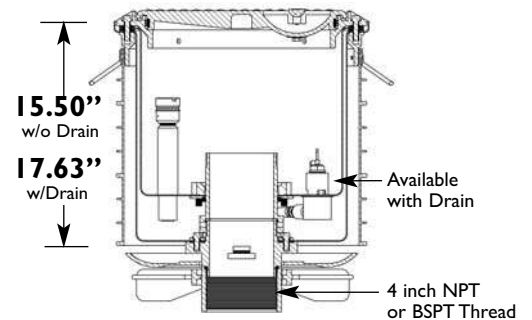
### 5 Gallon Slip-on

■ Florida DEP #EQ-764R



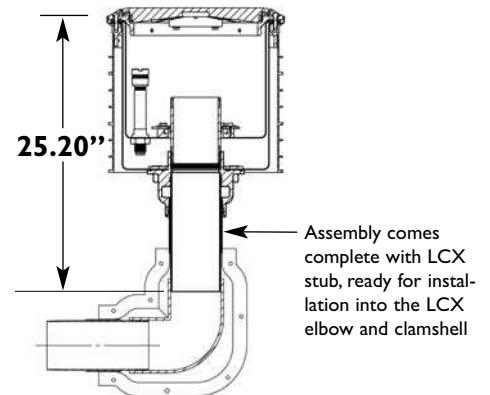
### 5 Gallon Thread-on

■ Florida DEP #EQ-764R



### 5 Gallon Glass-On Remote Fill

■ Florida DEP #EQ-764R



Model No.	Description	Application	Lid Dia.	Lid Wt.	Total Wt.
<b>Slip-on</b>					
A1005-517G	Double wall stainless steel, no drain, gauge, 5 gal	Fill/Vapor	13.2"	15.9 lbs.	79.0 lbs.
A1005-517GDEF	Double wall stainless steel, no drain, gauge, 5 gal, for DEF	DEF	13.2"	15.9 lbs.	79.0 lbs.
A1005-517S-CM	Double wall stainless steel, no drain, sensor, 5 gal	Fill/Vapor	13.2"	15.9 lbs.	77.6 lbs.
A1005-517GS	DW stainless steel, no drain, gauge, 5 gal, Allegheny seal Viton®	Fill/Vapor	13.2"	15.9 lbs.	79.5 lbs.
A1005-517GSN	DW stainless steel, no drain, gauge, 5 gal, Allegheny seal Nitrile	Fill/Vapor	13.2"	15.9 lbs.	79.5 lbs.
<b>Thread-on</b>					
A1005-518G	Double wall stainless steel, no drain, gauge, 5 gal	Fill/Vapor	13.2"	15.9 lbs.	90.8 lbs.
A1005-518SG	Double wall stainless steel, drain, gauge, 5 gal	Fill/Vapor	13.2"	15.9 lbs.	91.2 lbs.
<b>Glass-on</b>					
A1005-517SF	Double wall stainless steel, no drain, gauge, 5 gal	Remote Fill	13.2"	15.9 lbs.	93.3 lbs.
A1005-517SF-CM	Double wall stainless steel, no drain, gauge, sensor, 5 gal	Remote Fill	13.2"	15.9 lbs.	91.9 lbs.
A1005EVR-616SF4	DW stainless steel primary, poly secondary, no drain, 15 gal	Remote Fill	17.3"	30.0 lbs.	

Add a "V" to the end of the variant number to include an A0076-124S Vapor Swivel Adapter and A0099-002 Vapor Cap; add an "X" to include an A0030-124S Fill Swivel Adapter and A0097-005 Fill Cap. Refer to pages 48-50 for repair kits and replacement parts.

Viton® is a registered trademark of DuPont Dow Elastomers.

# Spill Containment

## Non-Replaceable

## Single Wall Poly (HDPE)

### 5 Gallon Thread-on

Heavy duty, snow plow resistant ductile iron, powder coated plow rim

HDPE liner and skirt

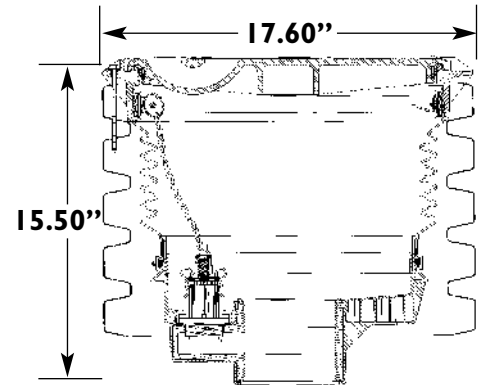
4 inch NPT or BSPT thread

Cast iron lid with built-in handle, meets AASHTO H20 wheel loading

**Slimline:** Water-resistant lid with exclusive triple wiper seal



■ ULC Listed MH21149  
Florida DEP #EQ-524

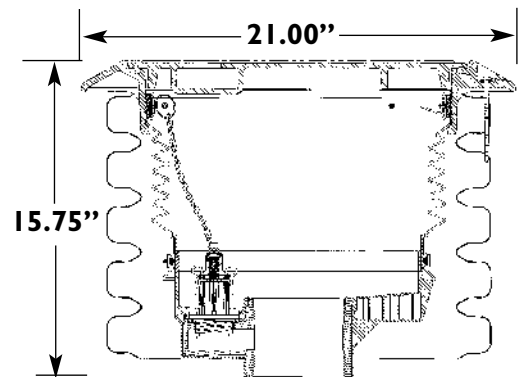


**Slimline**

### 5 Gallon Thread-on



■ ULC Listed MH21149  
Florida DEP #EQ-524



**Fatboy**

Model No.	Description	Lid Dia.	Lid Weight	Total Weight
* <b>A1004-010</b>	Slimline, cast iron lid, drain, 5 gal	15.3"	20.0 lbs.	58.5 lbs.
A1004EVR-010	Slimline, cast iron lid, drain, 5 gal, Phase I EVR	15.3"	20.0 lbs.	58.5 lbs.
A1004-011	Slimline, cast iron lid, no drain, 5 gal	15.3"	20.0 lbs.	58.6 lbs.
A1004EVR-011	Slimline, cast iron lid, no drain, 5 gal, Phase I EVR	15.3"	20.0 lbs.	58.6 lbs.
A1004-012	Slimline, cast iron lid, drain, BSPT, 5 gal	15.3"	20.0 lbs.	58.5 lbs.
A1004-014	Slimline, lid, rim and skirt assembly	15.3"	20.0 lbs.	39.6 lbs.
A1004-003	Fatboy, cast iron lid, drain, 5 gal	16.3"	22.0 lbs.	76.2 lbs.
A1004EVR-003	Fatboy, cast iron lid, drain, 5 gal, Phase I EVR	16.3"	22.0 lbs.	76.2 lbs.
A1004-004	Fatboy, cast iron lid, no drain, 5 gal	16.3"	22.0 lbs.	75.0 lbs.
A1004EVR-004	Fatboy, cast iron lid, no drain, 5 gal, Phase I EVR	16.3"	22.0 lbs.	75.0 lbs.
A1004-005	Fatboy, cast iron lid, drain, BSPT, 5 gal	16.3"	22.0 lbs.	76.2 lbs.

Refer to pages 48-50 for repair kits and replacement parts.

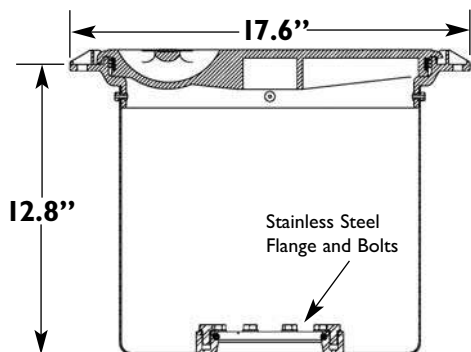
\*Most common variant

# Spill Containment

## Non-Replaceable

## Single Wall Stainless Steel

### 5 Gallon Slip-on



Stainless steel spill containment with Nitrile seals

Heavy duty, snow plow resistant ductile iron, powder coated plow rim

Water-resistant cast iron lid with built-in handle and exclusive triple wiper seal, meets AASHTO H20 wheel loading

■ ULC Listed MH21149  
Florida DEP #EQ-524

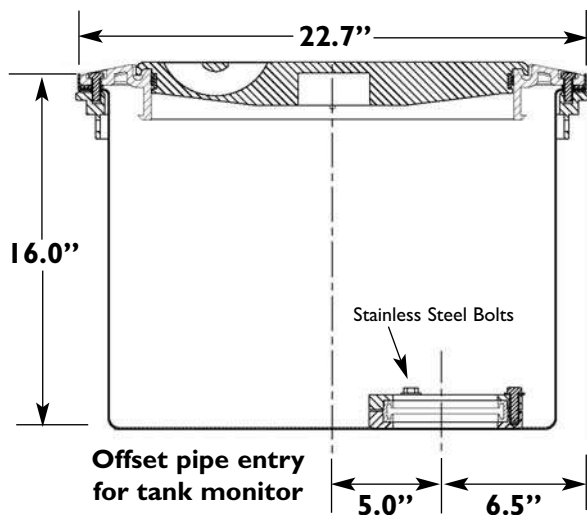
**Replaces A1005-001  
Powder Coated Version**

Model No.	Description	Application	Lid Dia.	Lid Weight	Total Weight
A1005-501	Cast iron lid, 5 gal	4" riser pipe	15.3"	20 lbs.	46.0 lbs.
A1005-502	Cast iron lid, 5 gal	3" riser pipe	15.3"	20 lbs.	46.0 lbs.

Can be ordered with an A0333-004 Hand Pump (refer to page 46); add a "P" to the end of the variant number.

Refer to page 48 for replacement lids.

### 15 Gallon Slip-on



Model No.	Description	Application	Lid Dia.	Lid Weight	Total Weight
A1005-010TM	Cast iron lid, 15 gal	2" riser pipe	17.3"	30 lbs.	90.0 lbs.
A1005-015TM	Cast iron lid, 15 gal	4" riser pipe	17.3"	30 lbs.	110.0 lbs.

Refer to page 48 for replacement lids.

# Spill Containment

## Retrofit

## Stainless Steel

**Convert your obsolete poly bucket to state-of-the-art stainless steel  
- no excavation required**



***Before***



***After***

- The containment vessel completely isolates the existing manhole; the lid seals inside the stainless steel vessel
- Water-resistant cast iron lid with built-in handle and exclusive triple wiper seal, meets AASHTO H20 wheel loading
- Models available for virtually all common competitors' buckets - Emco will provide custom designs for rare or unique applications  
Models can be customized to accommodate specific height requirements
- US Patent 8,425,145 B2; other patents pending

■ Florida DEP EQ-753  
EQ-764R (Double Wall)  
North Carolina DENR



Cast Iron Cover with  
Triple Wiper Seal

Stainless Steel  
Containment Vessel

Stainless Steel Bolts  
Flange  
O-ring Seal



Double wall variants  
include EZ-Gage

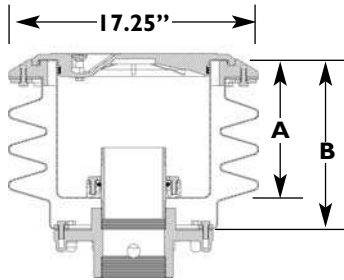
For drain options,  
contact our Customer  
Service Department  
(800-234-4394)

# Spill Containment

## Retrofit

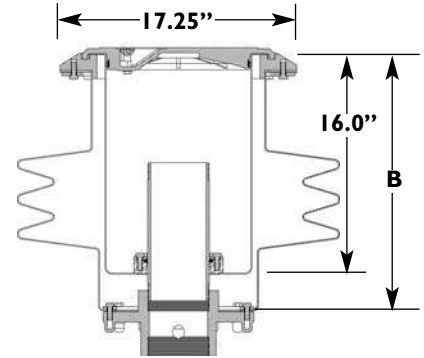
## Franklin Fueling Stainless Steel

### EBW 702, 703, 705



Rim 17.25"; Lid 14"

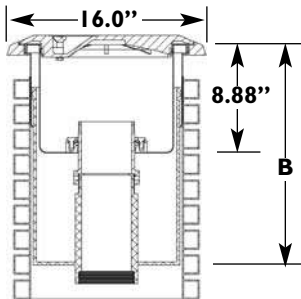
### EBW 715, 725



### Phil-Tite 400



Rim 16"; Lid 14"



Model No.	Repairs	A	Min. Ht. B	Weight
A1005-505CE	EBW 702,703,705	9.75"	11.13"	26.0 lbs.
A1005-505CES	EBW 702,703,705 Short	7.70"	9.25"	24.9 lbs.
A1005-505CE15	EBW 715,725 15 Gallon	16.00"	9.38"	30.0 lbs.
A1005-505CF1	Phil-Tite 400		16.38"	30.0 lbs.
A1005-505DPEB	Drain Plug Kit for EBW 705,715			00.1 lbs.

Liners without drains will require purchase of the proper drain plug for the existing spill container.

Refer to pages 43-45 & 48 for installation and replacement items.

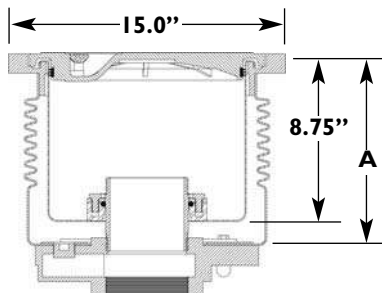
## Retrofit

## Universal Stainless Steel

### Universal 69RT, 71CD



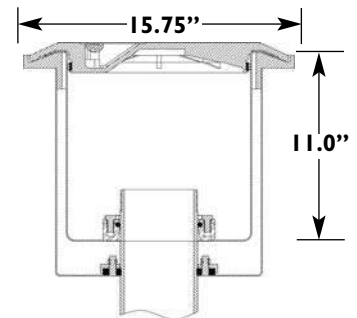
Rim 15"; Lid 12.75"



### Universal 70C



Rim 15.75"; Lid 15"



Model No.	Repairs	Min. Ht. A	Weight
A1005-505CU	Universal 69RT,71CD	9.25"	26.0 lbs.
A1005-505CU70	Universal 70C	N/A	29.0 lbs.
A1005-505DPU	Drain Plug Kit, 69RT,71CD		0.4 lbs.

Liners without drains will require purchase of the proper drain plug kit for the existing spill container.

Refer to pages 43-45 & 48 for installation and replacement items.



# Spill Containment

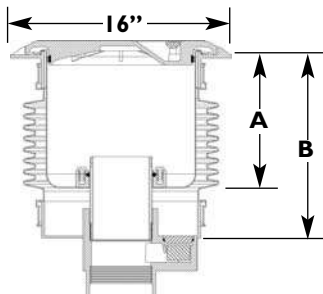
## Retrofit

## OPW Stainless Steel

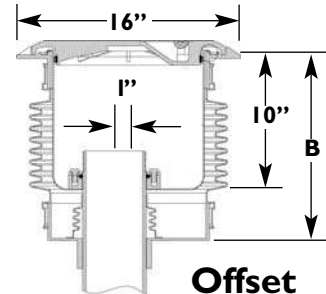
### OPW I-2100



Rim 16.0"; Lid 13.75"



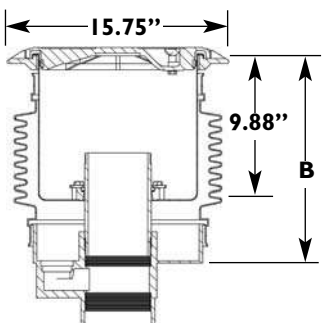
### OPW I-2105



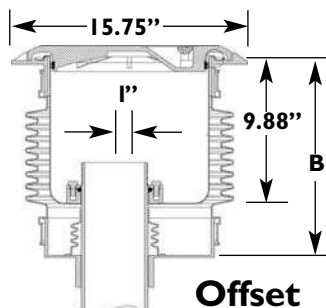
### OPW ISC-2100



Rim 15.75"; Lid 12.5"



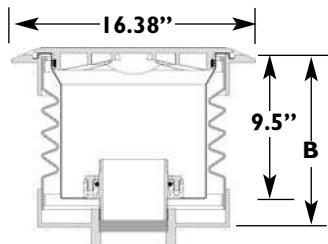
### OPW ISC-2105



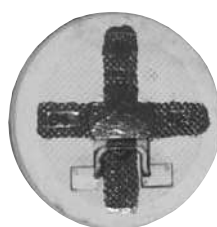
### OPW 4000



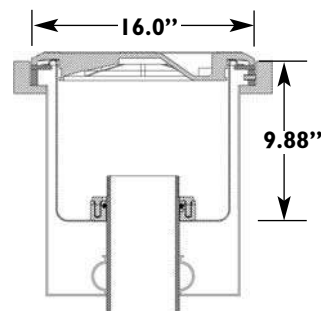
Rim 16.375"; Lid 13.13"



### OPW 84D

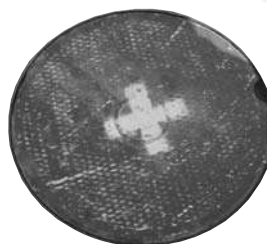


Rim 15.5"; Lid 13.75"

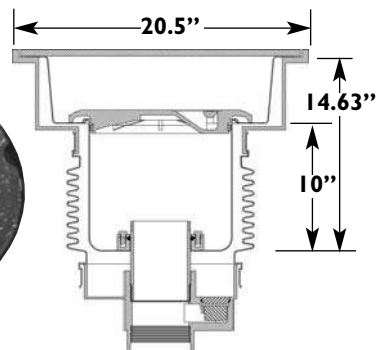


Model No.	Repairs OPW	A	Min. Ht. B	Weight
A1005-505C	I-2100 Series	10.0"	12.00"	31.0 lbs.
A1005-505CDR	I-2100; Includes Drain	10.0"	12.00"	30.5 lbs.
A1005-505CS	I-2100 Short	8.7"	10.75"	27.0 lbs.
A1005-505CD	I-2100 Double Wall	10.0"	12.00"	34.0 lbs.
A1005-505CZ	I-2100 Crooked Riser	10.0"	12.00"	30.0 lbs.
A1005-505C5	I-2105 Offset	10.25"	26.0 lbs.	
A1005-505CC	ISC-2100 Series	12.00"	24.0 lbs.	
A1005-505CC5	ISC-2105 Offset	10.25"	23.0 lbs.	
A1005-505C4*	4000	10.50"	24.0 lbs.	
A1005-505CA	84D	N/A	41.0 lbs.	
A1005-505CBG	101BG	N/A	39.0 lbs.	
A1005-505DP	Drain Plug Kit, I-2100/I-2105		0.3 lbs.	
A1005-505DPE	Drain Plug Kit w/Epoxy		0.7 lbs.	

### OPW 101BG Below Grade



Rim 20.5"; Lid 20.0"



\*Not available with a drain option.

Liners without drains will require purchase of the proper drain plug kit for the existing spill container.

Refer to pages 43-45 & 48 for installation and replacement items.

# Spill Containment

## Retrofit

## OPW 500/700

No excavation required - use existing riser pipe

Eliminates all OPW primary and secondary containers

Diamond plate steel lid bolts to existing OPW rim

Spill containment unit includes cast iron, water-resistant lid with exclusive triple wiper seal; meets H20 load rating

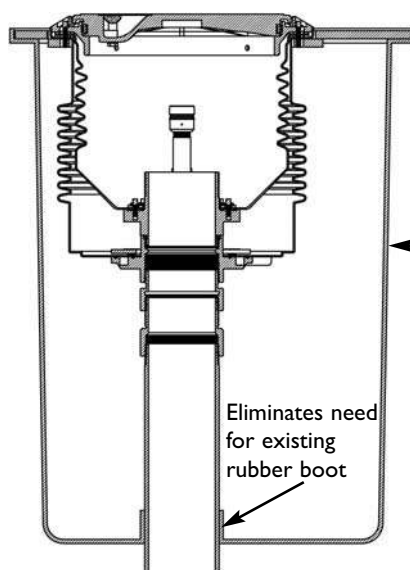
Includes EZ-Gage for instant monitoring of interstitial space

Full Emco Wheaton warranty on complete single wall and double wall buckets



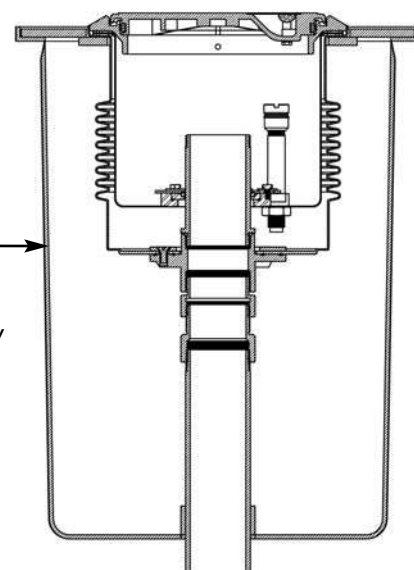
The **A0081-001R Retrofit Lid Wrench** is required for installation of the A1005 stainless steel versions. The A0081-001R can also be used on the A1004 poly versions.

### Polyethylene (HDPE) Double Wall



**A1004-316R** ■ Florida DEP #EQ-741

### Stainless Steel Primary Polyethylene Secondary



**A1005-518R** ■ Florida DEP #EQ-764R

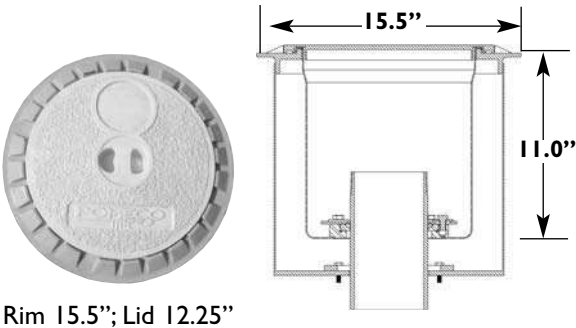
<u>Single Wall</u>	Primary Liner		Secondary Liner		Drain	Sensor	Cap & Swivel Adapter	Weight
A1004-316RA	Polyethylene	Thread-on	N/A		Yes	No	No	118 lbs.
A1005-516RA	Stainless Steel	Slip-on	N/A		No	No	No	99 lbs.
A1005-516RAD	Stainless Steel	Slip-on	N/A		Yes	No	No	100 lbs.
<u>Double Wall</u>								
A1004-316R	Polyethylene	Thread-on	Polyethylene	Thread-on	Yes	No	No	133 lbs.
A1005-518R	Stainless Steel	Slip-on	Polyethylene	Thread-on	No	No	No	116 lbs.
A1005-518RD	Stainless Steel	Slip-on	Polyethylene	Thread-on	Yes	No	No	117 lbs.
A1005-518RDX	Stainless Steel	Slip-on	Polyethylene	Thread-on	Yes	No	Yes	127 lbs.
A1005-518R-CM	Stainless Steel	Slip-on	Polyethylene	Thread-on	No	Yes	No	118 lbs.

# Spill Containment

Retrofit

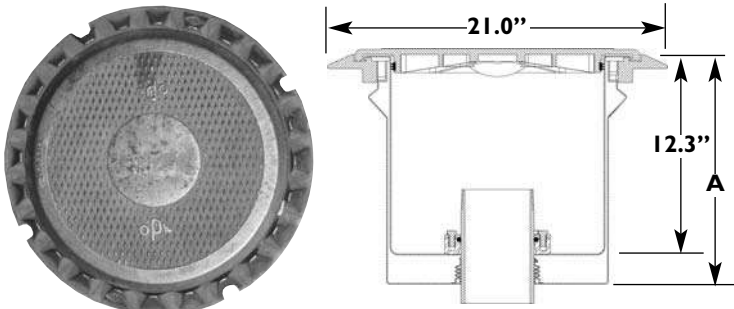
Pomeco Stainless Steel

## Pomeco 111KP, 111KB



Rim 15.5"; Lid 12.25"

## Pomeco 211



Rim 21"; Lid 17.25"

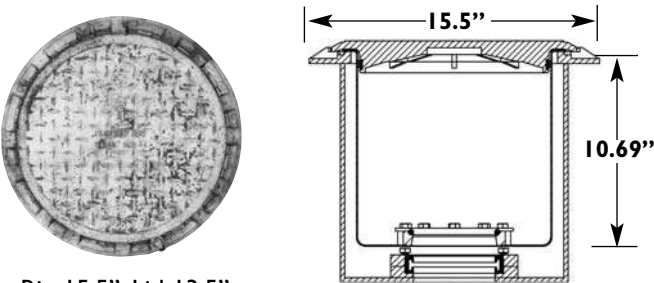
Model No.	Repairs	Min. Ht. A	Weight
A1005-505CPI	Pomeco 111KP, 111KB	N/A	25.0 lbs.
A1005-505CP	Pomeco 211	12.38"	42.3 lbs.

Refer to pages 43-45 & 48 for installation and replacement items.

Retrofit

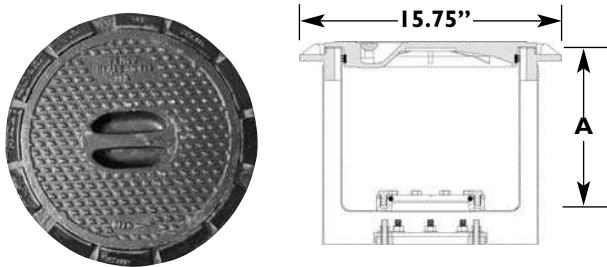
Fairfield, Pemco Stainless Steel

## Fairfield SCM-5



Rim 15.5"; Lid 13.5"

## Pemco 112



Rim 15.75"; Lid 13.13"

Model No.	Repairs	Weight
A1005-505CF5	Fairfield SCM-5	29.9 lbs.

Model No.	Repairs	A	Weight
A1005-505CPem	Pemco 112	9.50"	24.0 lbs.
A1005-505CPED	Pemco 112 Double Wall	9.75"	31.0 lbs.

Refer to pages 43-45 & 48 for installation and replacement items.

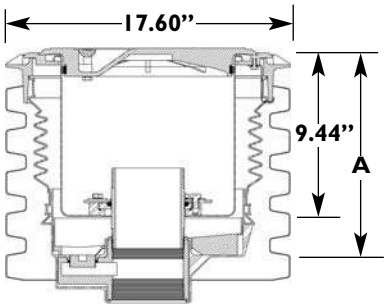
# Spill Containment

## Retrofit Emco Stainless Steel

### Emco A1004-010 (Slimline)



Rim 17.6"; Lid 15.3"



Model No.	Repairs	Min. Ht. A	Weight
A1005-505CEW3	Emco A1004-010 Series	10.50"	26.0 lbs.
A1005-505CEW3DR	Emco A1004-010 Series, Includes Drain	11.50"	26.0 lbs.

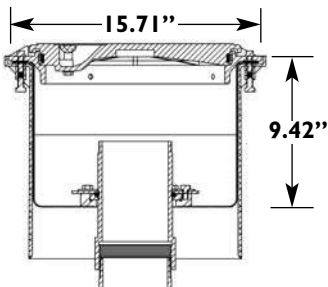
\*Minimum height is measured from the inside lip of the rim to the bottom of the bucket.

Refer to pages 43-45 & 48 for installation and replacement items.

### Emco A1003



Rim 15.75"; Lid 15.75"



Model No.	Repairs	Min. Ht.	Weight
A1005-505CEW4	Emco A1003 Series	8.00"	28.0 lbs.
A1005-505CEW4DR	Emco A1003 Series, Includes Drain	9.00"	28.3 lbs.

\*Minimum height is measured from the inside lip of the rim to the bottom of the bucket.

Refer to pages 43-45 & 48 for installation and replacement items.

# Spill Containment

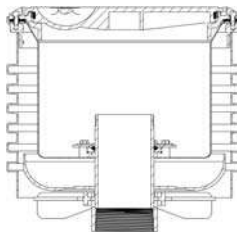
## Retrofit

## Emco Stainless Steel

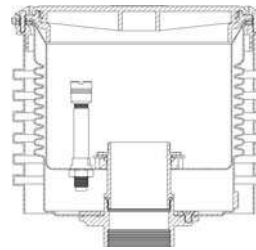
### Emco A1004-210 Series



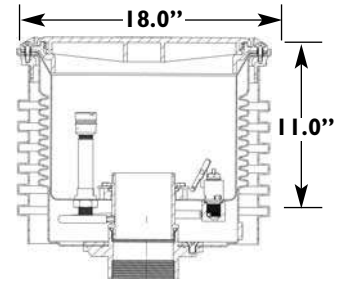
Rim 18"; Lid 15.3"



Kit for Single Wall



Kit for Double Wall



There are two styles of the A1004-210. Double wall versions require either an NPT or NPSM adapter; both adapters are included with each kit. You may return the unused adapter to Emco for credit. Single wall versions include an A0031-725 (A0031-725P for drain versions). For stretched or compressed bellows applications, additional adapter lengths are available. Refer to the list on the following page.

Model No.	Repairs	*Min. Ht.	Weight
A1005-505CEW1	A1004-210A Single Wall	10.00"	47.0 lbs.
A1005-505CEW1DR	A1004-210A Single Wall, Includes Drain	11.00"	48.9 lbs.
A1005-505CEW1G	A1004-210S Double Wall, Includes Gage	10.75"	48.2 lbs.
A1005-505CEW1GDR	A1004-210S Double Wall, Includes Drain & Gage	11.50"	50.1 lbs.

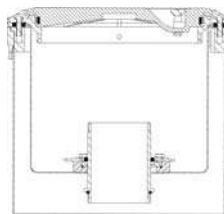
\*Minimum height is measured from the inside lip of the rim to the bottom of the bucket.

Refer to pages 43-45 & 48 for installation and replacement items.

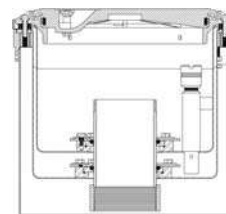
### Emco A1004-316 Series



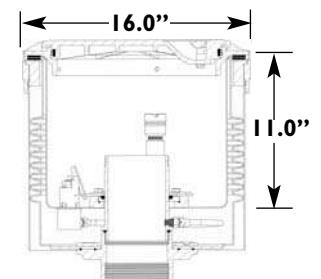
Rim 16"; Lid 13.2"



Kit for Single Wall



Kit for Double Wall



Model No.	Repairs	*Min. Ht.	Weight
A1005-505CEW2	A1004-316A Single Wall	10.25"	36.3 lbs.
A1005-505CEW2DR	A1004-316A Single Wall, Includes Drain	11.25"	39.4 lbs.
A1005-505CEW2GDW	A1004-316S Double Wall, Includes Gage	10.13"	37.5 lbs.
A1005-505CEW2GDR	A1004-316S Double Wall, Includes Drain & Gage	11.00"	39.4 lbs.

\*Minimum height is measured from the inside lip of the rim to the bottom of the bucket.

An A7901-305K Adapter Kit is included with the A1005-505CEW2 models. For buckets that have been installed with the bellows in a stretched position, a taller adapter may be required. Refer to the following page for a list of adapter kits.

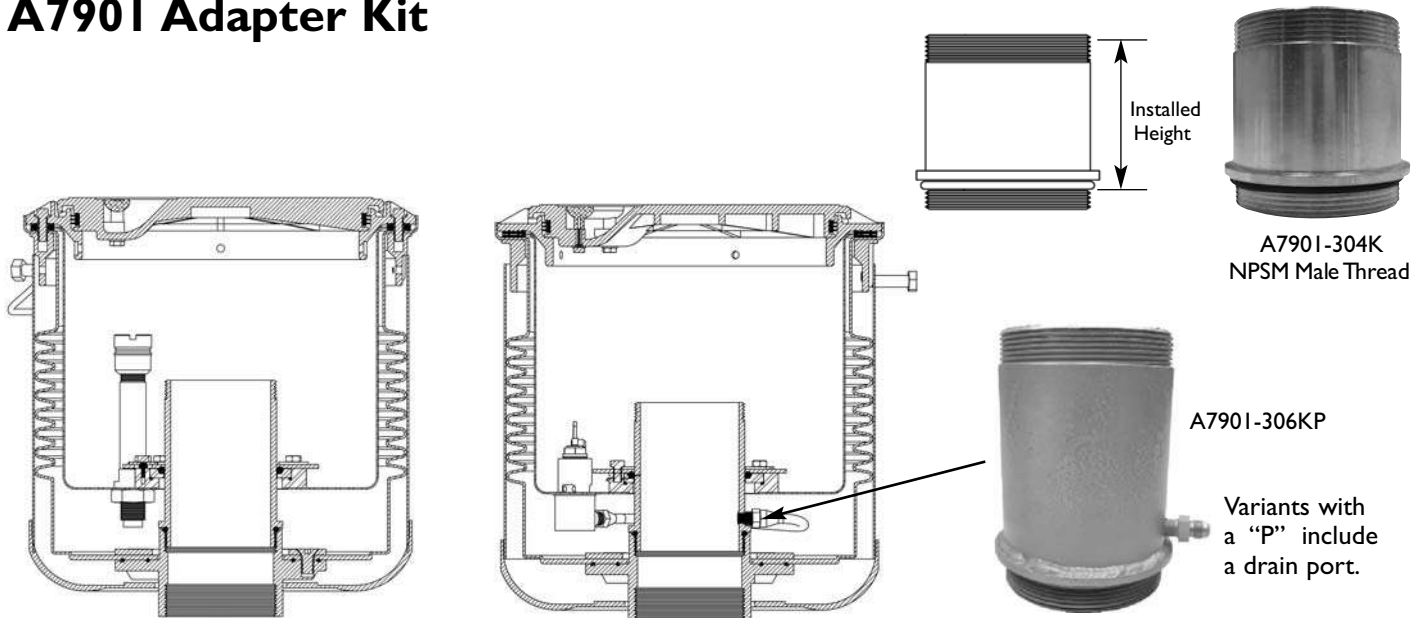
Refer to pages 43-45 & 48 for installation and replacement items.

# Spill Containment

## Retrofit

## Accessories

### A790I Adapter Kit



An A790I-305K Adapter Kit is included with the A1005-505CEW1 and A1005-505CEW2 models. For buckets that have been installed with the bellows in a stretched position, a taller adapter may be required.

Part No.	Installed Height	Description	Weight
A790I-302K		Adapter, 4" NPSM/NPT	2.0 lbs.
A790I-304K	4.00"	A1005-505CEW1, CEW2	4.0 lbs.
A790I-304KP	4.00"	A1005-505CEW1, CEW2	4.1 lbs.
* A790I-305K	5.00"	A1005-505CEW1, CEW2	6.0 lbs.
** A790I-305KP	5.00"	A1005-505CEW1, CEW2	6.1 lbs.
A790I-306K	6.00"	A1005-505CEW1, CEW2	7.5 lbs.
A790I-306KP	6.00"	A1005-505CEW1, CEW2	7.6 lbs.

\*Included in A1005-505CEW1 & A1005-505CEW2

\*\*Included in A1005-505CEW1DR & A1005-505CEW2DR

## Retrofit

## Testing Equipment

Part No.	Description	Weight
A1004-210TEST	Test Unit	6.5 lbs.
494833	Test Cover	4.5 lbs.
494854	Test Cover (-505CP)	5.0 lbs.

A1004-210TEST



494833

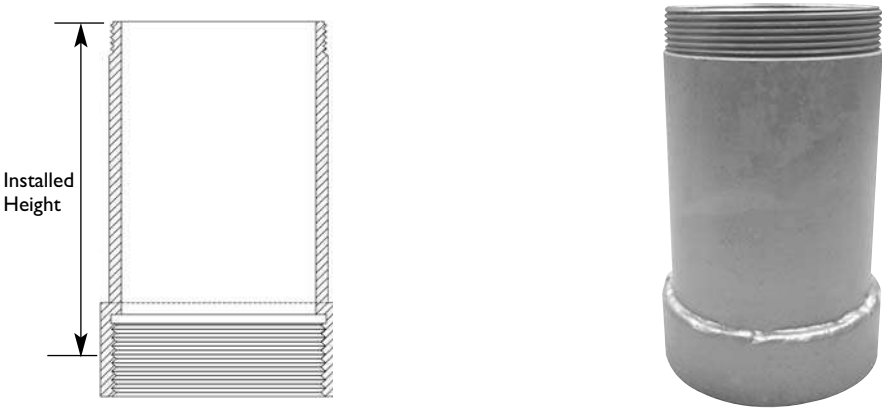


The A1004-210TEST is used with the 494833 Test Cover to perform vacuum testing on the A1005-505C Series Retrofit Spill Containment.

# Spill Containment

## Riser Extensions - One-Piece

The Emco Wheaton A003I Riser Extension is designed to compensate for riser pipe variations and to accommodate spill containment retrofits. The threads are 4" NPT.



Part No.	Installed Height	Application	Weight
A003I-175	1.75"	Riser pipe extension	2.7 lbs.
A003I-250	2.50"	Riser pipe extension	3.7 lbs.
A003I-450	4.50"	Riser pipe extension	4.1 lbs.
A003I-625	6.25"	Riser pipe extension	4.4 lbs.
A003I-625P	6.25"	Riser pipe extension	4.5 lbs.
A003I-725	7.25"	Riser pipe extension	6.4 lbs.
A003I-725P	7.25"	Riser pipe extension	6.5 lbs.
A003I-825	8.25"	Riser pipe extension	7.9 lbs.
A003I-825P	8.25"	Riser pipe extension	8.0 lbs.
A003I-900	9.00"	Riser pipe extension	9.0 lbs.

Variants with a "P" include a drain port

## Riser Extensions - Two-Piece

### Pipe Nipples

The Emco Wheaton A7901 Pipe Nipple is used in spill containment buckets to extend the fill pipe. The A7901 is available in either Schedule 40 pipe or .156 DOM tubing. The top and bottom threads are NPT.

The Schedule 40 nipples are made from flame controlled pipe with no internal weld bead and have a nominal ID of 4.026”.

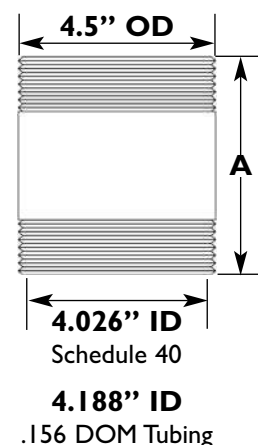
The nipples made from .156 DOM tubing have a nominal ID of 4.188”, easily allowing a submersible pump to pass through it.

#### Schedule 40 Pipe

Model No.	Weight	Length A
A7901-004C	1.6 lbs.	3” (close)
A7901-004	2.5 lbs.	4”
A7901-005	3.4 lbs.	5”
A7901-006	4.2 lbs.	6”
A7901-008	5.9 lbs.	8”
A7901-010	7.7 lbs.	10”
A7901-012	9.4 lbs.	12”
A7901-014	11.1 lbs.	14”
A7901-015	12.0 lbs.	15”
A7901-016	12.8 lbs.	16”
A7901-018	14.5 lbs.	18”
A7901-019	15.4 lbs.	19”
A7901-020	16.3 lbs.	20”
A7901-022	18.0 lbs.	22”
A7901-024	19.7 lbs.	24”
A7901-026	21.4 lbs.	26”
A7901-028	23.1 lbs.	28”
A7901-030	24.9 lbs.	30”
A7901-032	26.6 lbs.	32”
A7901-034	28.3 lbs.	34”
A7901-036	30.0 lbs.	36”

#### .156 DOM Tubing

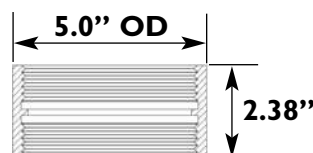
Model No.	Weight
A7901-204	1.6 lbs.
A7901-205	2.2 lbs.
A7901-206	2.8 lbs.
A7901-208	4.1 lbs.
A7901-210	5.3 lbs.
A7901-212	6.6 lbs.
A7901-214	7.8 lbs.
A7901-215	8.5 lbs.
A7901-216	9.1 lbs.
A7901-218	10.3 lbs.
A7901-219	11.0 lbs.
A7901-220	11.6 lbs.
A7901-222	12.8 lbs.
A7901-224	14.1 lbs.
A7901-226	15.3 lbs.
A7901-228	16.6 lbs.
A7901-230	17.9 lbs.
A7901-232	19.1 lbs.
A7901-234	20.4 lbs.
A7901-236	21.6 lbs.



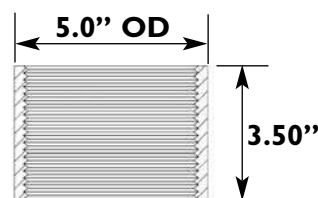
### Pipe Couplings

The Emco Wheaton A7904-500 and A7904-004 Pipe Couplings convert a male riser pipe to a female, allowing for an extension nipple. The A7904-500 adds only 1/4” to the original riser.

Model No.	Length A	Weight
A7904-500	2.38”	2.9 lbs.
A7904-004	3.50”	4.5 lbs.



A7904-500  
Short Pipe  
Coupling



A7904-004  
Merchant Steel  
Coupling



# Spill Containment

## Spill Containment Accessories

### A0081-003 Pipe Nipple Extractor

The Emco Wheaton A0081-003 Pipe Nipple Extractor is used to remove 4" pipe nipples; steel construction.

Model No.	Weight
A0081-003	10.3 lbs.



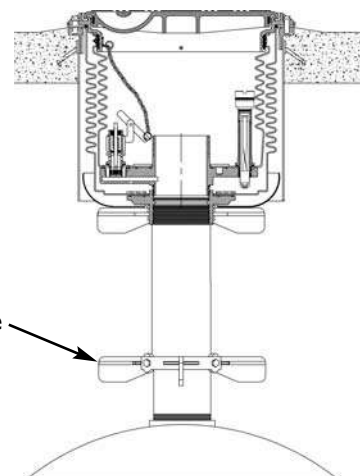
### A0028 Riser Lock

The Emco Wheaton A0028-001 Riser Lock is designed to lock the riser pipe in place when removing manholes or adapters. Can be used on 3" and 4" pipe.

Model No.	Weight
A0028-001	5.4 lbs.



Prevents riser pipe from backing out of tank fitting



### A0333 Hand Pump

The Emco Wheaton A0333 Hand Pump is a thermoplastic self-venting pump. The A0333-002 is acceptable for use with A1003, A1004 and A1005 Containment Manholes.

Model No.	Description	Weight
A0333-002	Hand Pump	1.3 lbs.
A0333-003	Hand Pump w/ Mounting Bracket for A1005-001	3.0 lbs.
A0333-004	Hand Pump w/ Mounting Bracket for A1005-501	3.0 lbs.



## Tools and Test Equipment

### A0081 Wrench

The A0081-001 Adapter Wrench is a specially designed tool for installing Emco Wheaton fill and vapor adapters. Octagonal bottom and tee handles assure tight positive seating of the fitting.

The A0081-001C Adapter Wrench is designed with a  $\frac{3}{4}$ " hex in place of the tee handle, for socket/torque wrench tightening. Fits in a standard toolbox. Both the A0081-001 and -001C are for use on the A0030-014, A0030-124S, A0076-124S, A0089 and A0096 Adapters.

The A0081-001H Wrench is used when installing the A1004 series primary repair kit. This wrench has 24" steel tube handles for easy removal of stubborn spill buckets. A hex bolt is welded to the top of the wrench, allowing use with a torque wrench.

Model No.	Material	Weight
A0081-001	Steel	10.4 lbs.
A0081-001C	Steel	7.8 lbs.
A0081-001H	Steel	11.3 lbs.



A0081-001  
Swivel Adapter  
Wrench



A0081-001C  
Swivel Adapter  
Wrench, Compact



A0081-001H  
Wrench, Primary  
Repair Kit

### A1004-210TEST Vacuum Apparatus w/Test Adapter

The A1004-210TEST is designed to perform vacuum testing on interstitial space in double wall spill containment.

Model No.	Description
A1004-210TEST	Vacuum Test Apparatus
494343	Test Adapter
569143	Test Cap Assembly
569194	Air Switch 1/8"
569195	Air Regulator 1/8"



494343  
Test Adapter



569143  
Test Cap  
Assembly



A1004-210TEST  
Test Apparatus

# Spill Containment

## Replacement Parts

## Lids

### Lids

Lid Part No.	Spill Containment Model No.	Material	Lid Dia.	Weight
A1004-210LID	A1004-210	Cast Iron	15.3"	20.0 lbs.
A1004-210LID-C	A1004-210	Composite	15.3"	8.3 lbs.
A1004-210LID-P	A1004-210; Red Premium	Cast Iron	15.3"	20.0 lbs.
A1004-210LID-R	A1004-210; White Regular	Cast Iron	15.3"	20.0 lbs.
A1004-210LID-V	A1004-210; Orange Vapor	Cast Iron	15.3"	20.0 lbs.
A1004-210LID-CP	A1004-210; Red Premium	Composite	15.3"	8.3 lbs.
A1004-210LID-CR	A1004-210; White Regular	Composite	15.3"	8.3 lbs.
A1004-210LID-CV	A1004-210; Orange Vapor	Composite	15.3"	8.3 lbs.
A1004-316CLID	A1004-316, A1005-517	Cast Iron	13.2"	15.9 lbs.
493123	A1003	Cast Iron	15.8"	19.1 lbs.
493806	A1004 Slimline, A1005-001, -501	Cast Iron	15.3"	20.0 lbs.
494554	A1004-215, A1005-010TM	Cast Iron	17.3"	29.5 lbs.
566332	A1004 Fatboy	Cast Iron	16.3"	24.1 lbs.
<b>A1005-505 Retrofit</b>				
A1005-505CL	A1005-505C, CDR, C5, CA, CBG, CD, CS, CZ	Cast Iron	13.7"	16.6 lbs.
A1005-505CCL	A1005-505CC, CC5	Cast Iron	12.4"	16.6 lbs.
A1005-505CEL	A1005-505CE, CE15, CES	Cast Iron	13.7"	16.6 lbs.
A1005-505CFLI	A1005-505CFI	Cast Iron	13.9"	16.5 lbs.
A1005-505CF5L	A1005-505CF5	Cast Iron	13.5"	15.2 lbs.
A1005-505CL4	A1005-505C4	Cast Iron	12.8"	12.3 lbs.
A1005-505CPEML	A1005-505CPEM, CPED	Cast Iron	12.8"	13.3 lbs.
A1005-505CPL	A1005-505CP	Cast Iron	17.6"	24.5 lbs.
A1005-505CUL	A1005-505CU	Cast Iron	12.8"	13.4 lbs.
A1005-505CUL70	A1005-505CU70, CEW4	Cast Iron	15.0"	16.9 lbs.
A1004-210LID	A1005-505CEW1, CEW1DR	Cast Iron	15.3"	20.0 lbs.
A1004-316CLID	A1005-505CEW2, CEW2DR	Cast Iron	13.2"	15.9 lbs.
A1005-505CEW3L	A1005-505CEW3	Cast Iron	15.4"	14.9 lbs.



A1004-210LID



A1004-316CLID



493123



493806



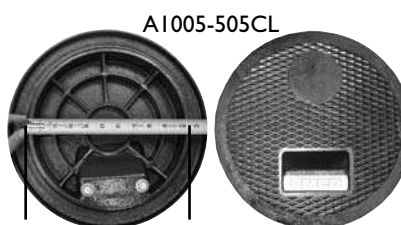
494554



566332

### Lid Replacement Seals

Part No.	Description
571126	O-ring Seal, 493123
567166K	Triple Wiper Seal A1004-210LID, 493806
568961	Triple Wiper Seal A1005-505C Series*
569227	Triple Wiper Seal 494554
570012	Triple Wiper Seal A1004-316LID, A1005-505CPL*, CEW3L



A1005-505CL

**\*A1005-505 Series Lid Seals:**  
Measure inside diameter as shown.  
10<sup>3</sup>/<sub>8</sub>"-10<sup>1</sup>/<sub>2</sub>" 568961 Seal  
12<sup>3</sup>/<sub>4</sub>"-13" 570012 Seal

### 494335 Lid for OPW I-2100 Series

Incorporates the features of Emco Wheaton A1004 lids: exclusive triple wiper seal, built-in side handle, cast iron construction, and meets AASHTO H20 wheel loading.

Model No.	Description	Weight
494335	Lid for OPW I-2100 Series	21.3 lbs.
568961	Replacement Seal	0.3 lbs.



494335

# Spill Containment

## Replacement Parts

### Drains

**493053**  
Pull Drain Assembly  
Aluminum, Bolt-down  
A1003



**493508K**  
Pull/Push  
Drain Assembly  
A1003, A1004  
Slimline, Fatboy



**494118**  
Drain Assembly  
A1004EVR



**494551**  
Drain Assembly  
A1004 Poly



**494551S**  
Drain Assembly  
A1005 Stainless Steel

**494875**  
Adapter Kit  
494551 Drain  
2.26" top dia.



**494952**  
Adapter Kit  
494118 Drain  
4.0" top dia.



Drain Assembly	List	Adapter Kit	List	Drain Plug
493053	\$62.06	N/A		N/A
493508K	\$49.36	N/A		494698
494118	\$40.61	494952	\$39.83	494698
494551	\$74.33	494875	\$39.82	494697
494551S	\$74.33	N/A	\$39.82	494697S

**493820** Drain Wrench

**494697**  
Drain Plug  
Replaces 494551 Drain  
Kit includes 3 plugs



**494697S**  
Replaces 494551S Drain  
Kit includes 1 plug

**494698**  
Drain Plug  
Replaces 493508K  
& 494118 Drains  
Kit includes 3 plugs



**493820**  
Drain Wrench  
For use on 494118  
& 493508K Drains



### Dip Sticks



**494641**  
For use on A1004-210S  
and A1004-316S Spill  
Containment



**494367**  
For use on A1004EVR  
Spill Containment

Model No.	Description	Weight
494641	Dipstick	.7 lbs.
494367	Dipstick, EVR Spill Containment	1.2 lbs.
A1004-001GAGE	EZ-Gage, Emco Spill Containment	1.1 lbs.

### EZ-Gage

#### A1004-001GAGE

For use on 5 gallon double wall spill containment in place of a dipstick. The EZ-Gage allows for hands-free, visual inspection of interstitial space, displaying green (OK) or red (TEST) to indicate if liquid removal is required.



### Electronic Sensor

Easy push-button sensor test mechanism eliminates bucket removal for annual sensor testing. Provides an access to remove liquid, and for interstitial vacuum testing from the secondary containment. Includes factory-installed liquid electronic sensor with 30' cable. Accommodates the Veeder Root system. Contact Customer Service for information on ordering sensors for other systems.

Part No.	Description	Weight
A1004-001SEN	Sensor Kit	1.2 lbs.
494890	Sensor Test Port Cap	1.0 lbs.



Normal Position



Test Position

# Spill Containment

## Replacement Parts

### Replacement Kits and Parts

#### AI004, AI005 Replaceable

	Part No.	Description	Weight
<b><u>AI004-210</u></b>	494360	Primary Replacement Kit (-210A)	44.0 lbs.
	494360EVR	Primary Replacement Kit (EVR-210A)	44.0 lbs.
	494466	Primary Replacement Kit (-211A)	48.5 lbs.
	494466EVR	Primary Replacement Kit (EVR-211A)	48.5 lbs.
	494350	Primary Replacement Kit (-210S)	51.4 lbs.
	494350EVR	Primary Replacement Kit (EVR-210S)	51.4 lbs.
	494350-CM	Primary Replacement Kit (-210S-CM)	45.7 lbs.
	494467	Primary Replacement Kit (-211S)	47.7 lbs.
	494467EVR	Primary Replacement Kit (EVR-211S)	47.7 lbs.
	494467G	Primary Replacement Kit (-211G)	47.7 lbs.
<b><u>AI004-215</u></b>	494602EVR	Primary Replacement Kit (-215A)	
	494550EVR	Primary and Secondary Replacement Kit (-215S)	90.2 lbs.
	494869	Primary and Secondary Replacement Kit (-215S-CM)	91.0 lbs.
	494660EVR	Primary and Secondary Replacement Kit (-216S)	88.0 lbs.
<b><u>AI004-316</u></b>	494797	Primary Replacement Kit (-316A)	
	494797EVR	Primary Replacement Kit (EVR-316A)	
	494798	Primary Replacement Kit (-317A)	
	494798EVR	Primary Replacement Kit (EVR-317A)	
	494794	Primary Replacement Kit (-316S)	38.0 lbs.
	494794EVR	Primary Replacement Kit (EVR-316S)	38.0 lbs.
	494794-CM	Primary Replacement Kit (-316S-CM)	
	494795	Primary Replacement Kit (-317S)	21.0 lbs.
	494795EVR	Primary Replacement Kit (EVR-317S)	21.0 lbs.
	494795-CM	Primary Replacement Kit (-317S-CM)	
	494888	Handle Kit (Lid)	.5 lbs.
	494836	Primary Rim Kit	
	569989	Rim Gasket, Bellows	
	570587	Rim Screw	
<b><u>AI005-517</u></b>	494845	Flange Seal, AI005-517	
	494897	Flange Seal, AI005-517GS	
	569820	Primary Rim	16.0 lbs.
	569989	Rim Gasket	

### Repair Parts

#### AI004/AI005 Non-Replaceable

	Part No.	Description	Weight
<b><u>AI004 Slimline</u></b>	494247	Internal Repair Kit, Slimline	17.0 lbs.
	566949	Rim, Ductile, Slimline	18.3 lbs.
<b><u>AI004 Fatboy</u></b>	494329	Internal Repair Kit, Fatboy	
	565271	Rim, Ductile, Fatboy	31.0 lbs.
<b><u>AI005-001</u></b>	493855	Bellows Assembly 4"	1.4 lbs.

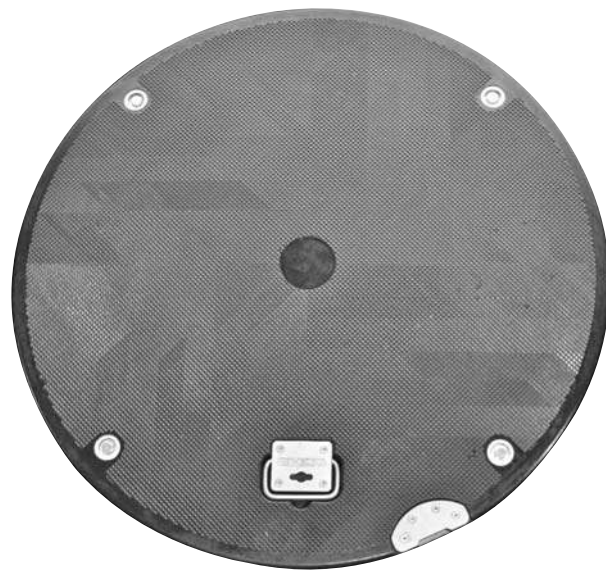
# MANHOLES

# Composite Manholes

## A0716 Composite Manholes

The Emco Wheaton A0716 Composite Manhole is designed with lightweight, slip-resistant composite manhole covers, using the latest manufacturing technology to ensure porosity-free molding, and compact, homogeneous distribution of reinforcing fiber. The covers also utilize a UV resistant treatment to protect against sun and weather damage.

- Reduced Weight
- Meets AASHTO H20 Wheel Loading
- Stainless Steel Fittings
- Slip Resistant Tread Pattern
- Galvanized steel skirt (12" & 18")

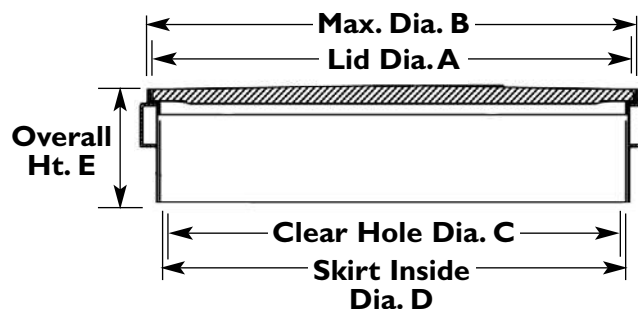
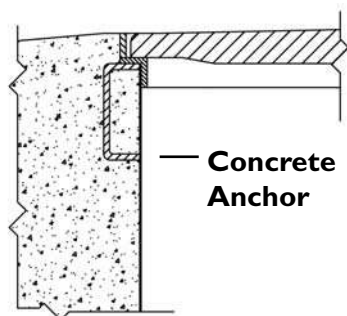


### 39", 42" & 44" Models

- Domed top construction to shed water
- Dual Handle - spring-loaded and key-lift
- Pry Bar Cleat
- Cam Lock Fittings - etched to show open and close directional arrows
- Powder coated cast iron cam with o-ring
- Hot rolled steel skirt
- Concrete anchors



569427 4 lbs.  
Euro Lift Handle



# Composite Manholes

## A0716 Composite Manholes

	Model Number	Style	Lid Dia. A	Overall Dia. B	Clear Hole ID C	Skirt ID D	Overall Height E	Weight
<b>18"</b>	A0716-018C	Cam Lock	17.3"	17.7"	15.1"	17.0"	12.0"	42.0 lbs.
	A0716-018CL	Lid Only Cam Lock	17.3"	--	--	--	--	38.0 lbs.
<b>39"</b>	* <b>A0716-039</b>	Lay-in	39.5"	40.9"	37.8"	38.3"	10.0"	159.0 lbs.
	A0716-039A	Lay-in	39.5"	40.9"	37.8"	38.3"	18.0"	174.0 lbs.
	A0716-039B	Bolt-down	39.5"	40.9"	35.5"	38.3"	10.0"	170.9 lbs.
	A0716-039C	Cam Lock	39.5"	40.9"	36.8"	38.3"	10.0"	137.5 lbs.
	A0716-039CL	Lid Only Cam Lock	39.5"	--	--	--	--	112.7 lbs.
	A0716-039LID	Lid Only Lay-in	39.5"	--	--	--	--	109.2 lbs.
	495157	Replacement Gasket, -039B, -039C						
<b>42"</b>	* <b>A0716-042</b>	Lay-in	43.8"	45.2"	42.0"	42.5"	10.0"	182.2 lbs.
	A0716-042B	Bolt-down	43.8"	45.2"	38.5"	42.5"	10.0"	174.3 lbs.
	A0716-042C	Cam Lock	43.8"	45.2"	41.0"	42.5"	10.0"	211.1 lbs.
	A0716-042CL	Lid Only Cam Lock	43.8"	--	--	--	--	163.0 lbs.
	A0716-042LID	Lid Only Lay-in	43.8"	--	--	--	--	143.0 lbs.
	494988	Replacement Gasket, -042B, -042C						
<b>44"</b>	A0716-044	Lay-in	44.3"	45.7"	42.5"	43.1"	10.0"	188.0 lbs.
	A0716-044B	Bolt-down	44.3"	45.7"	40.3"	43.1"	10.0"	199.5 lbs.
	* <b>A0716-044C</b>	Cam Lock	44.3"	45.7"	41.5"	43.1"	10.0"	208.6 lbs.
	A0716-044CL	Lid Only Cam Lock	44.3"	--	--	--	--	161.2 lbs.
	A0716-044LID	Lid Only Lay-in	44.3"	--	--	--	--	137.2 lbs.
	494988	Replacement Gasket, -044B, -044C						

\*Most common variant

Custom skirt heights available upon request

### Drop-In Replacement Lids for Competitors' Manholes:

Emco manufactures replacement lids in both composite and steel construction

Composite	3/8" Steel	OPW	Franklin	Flexing	Morrison
A0716-039LID	A0717-039LID	E00618	781-448-06		
A0716-039M	A0717-039M				318L-3800/3900
A0716-042LID	A0717-042LID			14U-4210C	
A0716-044LID	A0717-044LID	E00626	781-445-06		
A0716-044M	A0717-044M				318L-4400/4500



# Standard Manholes

## A0717 Round Manholes

The Emco Wheaton A0717 multi-purpose manhole provides access to all types of underground storage or containment vessels and meets AASHTO H20 wheel loading.

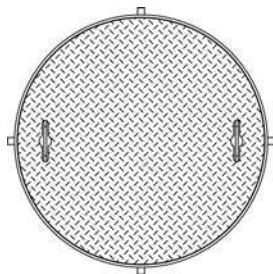
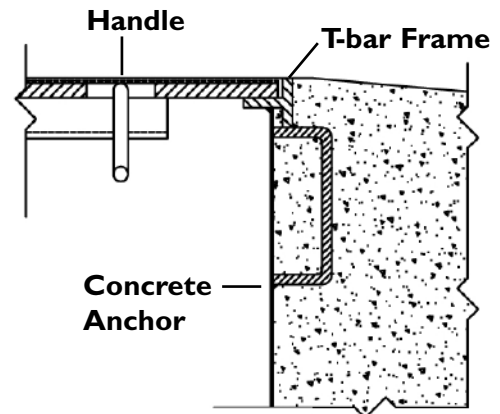
- Open throat design for easy access
- Optional galvanized steel or polyethylene skirt (8" & 12")
- Bolt-down units have water-resistant lids
- Built-in handle (18")
- Custom skirt heights available on all models



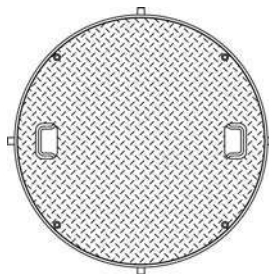
**A0717-036B**

### 24"-48" Models

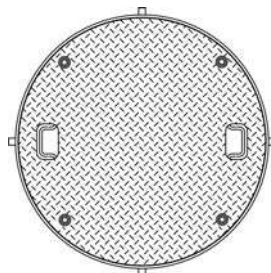
- Diamond plate steel lid
- Hot rolled steel skirt
- Concrete anchors
- T-bar frame
- Recessed handle
- Available in lay-in, bolt-down and cam-lock versions



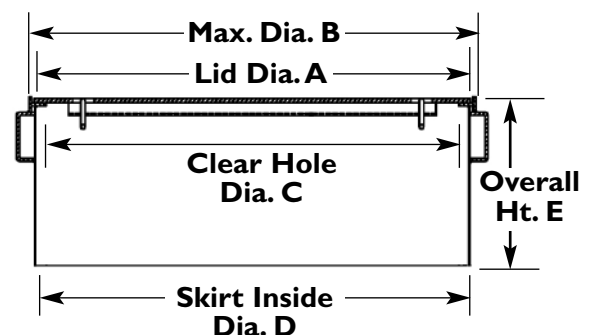
**Lay-in**



**Bolt-down**



**Cam-lock**



# Standard Manholes

## A0717 Round Manholes

	Model Number	Style	Skirt	Lid	Lid Dia. A	Max. Dia. B	Clear Hole Dia. C	Skirt I.D. D	Overall Ht. E	Weight
<b>8"</b>	A0717-188	Lay-in	Steel	3/8" Steel	9.0"	9.9"	8.0"	8.4"	9.0"	14.0 lbs.
	A0717-008	Lay-in	Poly	3/8" Steel	9.0"	9.9"	8.0"	8.1"	12.0"	16.0 lbs.
	A0717-108	Lay-in	Steel	3/8" Steel	9.0"	9.9"	8.0"	8.4"	12.0"	15.4 lbs.
<b>12"</b>	* A0717-128	Lay-in	Steel	Cast Iron	12.4"	13.8"	11.3"	12.0"	8.0"	21.8 lbs.
	* A0717-022	Lay-in	Poly	Cast Iron	12.4"	13.8"	11.3"	12.0"	12.0"	18.0 lbs.
	* A0717-122	Lay-in	Steel	Cast Iron	12.4"	13.8"	11.3"	12.0"	12.0"	25.3 lbs.
	A0717-122FG	Lay-in, w/finger hole	Steel	Cast Iron	12.4"	13.8"	11.3"	12.0"	12.0"	26.0 lbs.
	567177	Lid Only		Cast Iron	12.4"					10.0 lbs.
<b>18"</b>	* A0717-018	Lay-in	Steel	Cast Iron	17.3"	17.7"	16.0"	16.8"	13.0"	51.0 lbs.
	A0717-018A	Lay-in	Steel	Cast Iron	17.3"	17.7"	16.0"	16.8"	18.0"	58.1 lbs.
	A0717-018B	Bolt-down WR	Steel	Cast Iron	17.0"	17.7"	14.1"	17.0"	13.0"	56.3 lbs.
	A0717-018F	Lay-in, w/finger hole	Steel	3/8" Steel	17.3"	18.3"	16.2"	16.0"	10.0"	63.0 lbs.
	567715X	Lid Only		Cast Iron	17.3"					32.0 lbs.
<b>24"</b>	A0717-024	Lay-in	Steel	3/8" Steel	23.6"	24.5"	21.6"	23.1"	13.0"	68.0 lbs.
	A0717-024A	Lay-in	Steel	3/8" Steel	23.6"	24.5"	21.6"	23.0"	18.0"	73.0 lbs.
	A0717-124	Bolt-down WR	Steel	3/8" Steel	23.6"	24.5"	21.6"	23.0"	13.0"	69.0 lbs.
	A0717-124B	Bolt-down WR	Steel	3/8" Steel	23.6"	24.5"	21.6"	23.0"	18.0"	74.0 lbs.
	A0717-124CL	Cam-Lock WR	Steel	3/8" Steel	23.6"	24.5"	21.6"	23.0"	13.0"	67.0 lbs.
<b>30"</b>	A0717-030	Lay-in	Steel	3/8" Steel	29.6"	30.5"	27.6"	29.0"	13.0"	105.0 lbs.
	A0717-030B	Bolt-down WR	Steel	3/8" Steel	29.6"	30.5"	27.6"	29.0"	13.0"	107.8 lbs.
	A0717-030CL	Cam-Lock WR	Steel	3/8" Steel	29.6"	30.5"	27.6"	29.0"	13.0"	107.8 lbs.
<b>36"</b>	* A0717-036	Lay-in	Steel	1/2" Steel	35.6"	36.5"	33.6"	35.0"	13.0"	189.2 lbs.
	A0717-036B	Bolt-down WR	Steel	1/2" Steel	35.6"	36.5"	33.6"	35.0"	13.0"	175.0 lbs.
	A0717-036CL	Cam-Lock WR	Steel	1/2" Steel	35.6"	36.5"	33.6"	35.0"	13.0"	175.0 lbs.
	* A0717-136	Lay-in	Steel	3/8" Steel	35.6"	36.5"	33.6"	35.0"	13.0"	173.3 lbs.
	A0717-136B	Bolt-down WR	Steel	3/8" Steel	35.6"	36.5"	33.6"	35.0"	13.0"	173.8 lbs.
	A0717-136CL	Cam-Lock WR	Steel	3/8" Steel	35.6"	36.5"	33.6"	35.0"	13.0"	173.8 lbs.
<b>38"</b>	A0717-038	Lay-in	Steel	1/2" Steel	39.6"	40.5"	37.6"	39.0"	13.0"	257.0 lbs.
	A0717-038A	Lay-in	Steel	1/2" Steel	39.6"	40.5"	37.6"	39.0"	18.0"	240.0 lbs.
	A0717-038B	Bolt-down WR	Steel	1/2" Steel	39.6"	40.5"	37.6"	39.0"	13.0"	238.2 lbs.
	A0717-038CL	Cam-Lock WR	Steel	1/2" Steel	39.6"	40.5"	37.6"	39.0"	13.0"	238.2 lbs.
	* A0717-038C	Lay-in	Steel	3/8" Steel	39.6"	40.5"	37.6"	39.0"	13.0"	203.0 lbs.
	A0717-038CB	Bolt-down WR	Steel	3/8" Steel	39.6"	40.5"	37.6"	39.0"	13.0"	205.0 lbs.
	A0717-038CCL	Cam-Lock WR	Steel	3/8" Steel	39.6"	40.5"	37.6"	39.0"	13.0"	205.0 lbs.
<b>42"</b>	A0717-042A	Lay-in	Steel	1/2" Steel	44.1"	45.0"	42.1"	43.5"	13.0"	299.7 lbs.
	A0717-042AB	Lay-in	Steel	1/2" Steel	44.1"	45.0"	42.1"	43.5"	18.0"	
	A0717-042B	Bolt-down WR	Steel	1/2" Steel	44.1"	45.0"	42.1"	43.5"	13.0"	
	A0717-042D	Lay-in	Steel	3/8" Steel	44.1"	45.0"	42.1"	43.5"	13.0"	247.0 lbs.
<b>48"</b>	A0717-048	Lay-in	Steel	1/2" Steel	47.1"	48.0"	45.1"	46.5"	13.0"	321.0 lbs.
	A0717-148	Lay-in	Steel	3/8" Steel	47.1"	48.0"	45.1"	46.5"	13.0"	280.0 lbs.

\*Most common variant

# Standard Manholes

## A0717 Square Manholes and Vaults



A0717-724VW

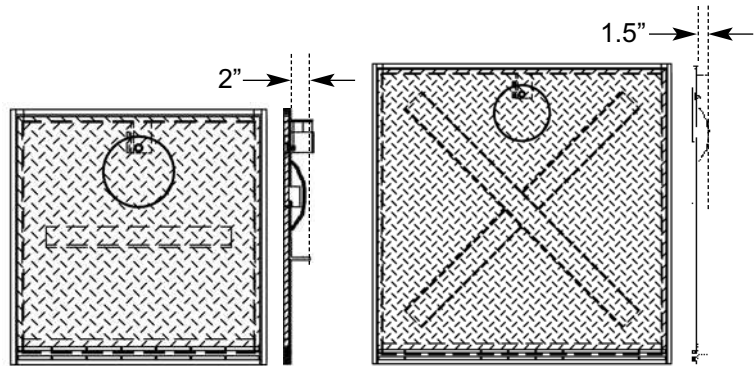


A0717-736VWL

The Emco Wheaton A0717 square manhole provides ease of access to a variety of tank hardware and monitoring equipment.

### All Square Manholes

- $\frac{3}{8}$ " heavy duty diamond plate lid
- 16 gauge steel skirt
- Meets AASHTO H20 wheel loading

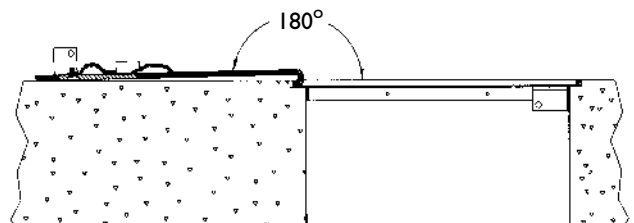


The 24" and 30" vaults are reinforced with 2"x2"x $\frac{1}{4}$ " steel angle

The 36" and 48" vaults are reinforced with cross bracing of 3" structural steel channel

### Locking Vault Manholes

- Double hinged lid opens and folds back to 180°
- Lock-access lid permanently fastened with anti-theft chain; secured with single pinned bolt



# Standard Manholes

## A0717 Square Manholes and Vaults

Size	Model No.	Style	Overall Height	Lid Weight	Total Weight
<b>12"</b>	*A0717-712VW	Locking Vault Water-resistant	11.6"	18 lbs.	38.1 lbs.
	A0717-712VWA	Locking Vault Water-resistant	24.6"	18 lbs.	38.1 lbs.
	A0717-712VWB	Locking Vault Water-resistant	18.6"	18 lbs.	42.5 lbs.
<b>18"</b>	A0717-718	Lay-in	9.6"	36 lbs.	
	*A0717-718ABW	Bolt-down Water-resistant	18.6"	36 lbs.	73.3 lbs.
	A0717-718BWA	Bolt-down Water-resistant	24.6"	36 lbs.	87.3 lbs.
	*A0717-718VW	Locking Vault Water-resistant	18.6"	36 lbs.	76.8 lbs.
	A0717-718VWA	Locking Vault Water-resistant	24.6"	36 lbs.	96.0 lbs.
	A0717-718VWL	Locking Vault Lift Assist Water-resistant	18.6"	36 lbs.	77.3 lbs.
<b>24"</b>	A0717-724	Lay-in	9.6"	65 lbs.	88.4 lbs.
	A0717-724A	Lay-in	24.6"	65 lbs.	112.0 lbs.
	A0717-724ABW	Bolt-down Water-resistant	24.6"	65 lbs.	119.8 lbs.
	A0717-724BBW	Bolt-down Water-resistant w/Handle	24.6"	65 lbs.	122.2 lbs.
	A0717-724BW	Bolt-down Water-resistant w/Handle	9.6"	65 lbs.	107.2 lbs.
	A0717-724E	Lay-in w/Handle	12.6"	65 lbs.	117.0 lbs.
	A0717-724V	Locking Vault	24.6"	65 lbs.	116.5 lbs.
	*A0717-724VW	Locking Vault Water-resistant	24.6"	65 lbs.	121.5 lbs.
	A0717-724VWB	Locking Vault Water-resistant	10.6"	65 lbs.	116.5 lbs.
	A0717-724VWC	Vault Bolt-down Water-resistant w/Handle	24.6"	65 lbs.	126.4 lbs.
	A0717-724VWE	Locking Vault Water-resistant	18.6"	65 lbs.	117.0 lbs.
	*A0717-724VWL	Locking Vault Lift Assist Water-resistant	24.6"	68 lbs.	120.9 lbs.
	A0717-724VWCL	Vault Lift Assist Bolt-down WR w/Handle	24.6"	68 lbs.	131.0 lbs.
<b>30"</b>	A0717-730VW	Locking Vault Water-resistant	24.6"	123 lbs.	200.0 lbs.
	A0717-730VWL	Locking Vault Lift Assist Water-resistant	24.6"	123 lbs.	200.0 lbs.
<b>36"</b>	A0717-736VW	Locking Vault Water-resistant	36.6"	165 lbs.	307.4 lbs.
	A0717-736VWA	Locking Vault Water-resistant 36x24x24	24.6"	165 lbs.	265.0 lbs.
	A0717-736VWAL	Locking Vault Lift Assist WR 36x24x24	24.6"	165 lbs.	270.0 lbs.
	A0717-736VWE	Locking Vault Water-resistant	24.6"	165 lbs.	285.0 lbs.
	A0717-736VWL	Locking Vault Lift Assist Water-resistant	36.6"	171 lbs.	287.0 lbs.
	A0717-736VWLA	Locking Vault Lift Assist Water-resistant	24.6"	171 lbs.	268.5 lbs.
<b>48"</b>	A0717-748VWL	Locking Vault Lift Assist Water-resistant	48.6"	165 lbs.	270.0 lbs.
	A0717-748VWLA	Locking Vault Lift Assist Water-resistant	24.6"	165 lbs.	270.0 lbs.
	A0717-748VWLF	Locking Vault Lift Assist WR 24x48x24	24.6"	171 lbs.	273.0 lbs.
<b>72"</b>	A0717-772VWLE	Locking Vault Lift Assist Bolt-down WR	24.6"		

\*Most common variant

Custom sizes available upon request

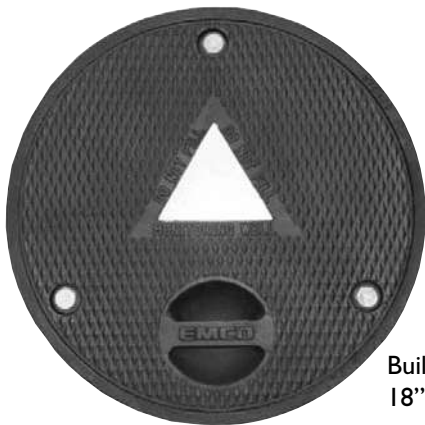
V = Hinged; B = Bolt-down; W = Water-resistant; L = Lift Assist Lid

# Monitoring Well Manholes

## A0721 Monitoring Well Manholes

All Emco Wheaton Monitoring Well Manholes incorporate cast-in identification triangles in accordance with API recommendations and meet AASHTO H20 wheel loading.

- Painted ductile iron lid and rim
- Optional steel or polyethylene skirt
- Bolt-down units have water-tight lids
- Custom skirt heights available
- Stainless steel bolts



Built-in side handle on 18" models - one hand opening and positioning



- Heavy-duty skirts available. 100% welded skirt and seam. Replace the first digit of the variant number with a 2
- ID tag available on all models; large enough for all new regulatory requirements; Add ID to the 8-digit part number

## A0720 Locking Cap & Collar

The Emco Wheaton A0720 locking cap and collar is used to limit access and seal monitoring wells and can be threaded or solvent welded onto a 4" PVC monitoring well pipe. It displays the monitoring well designation and includes a padlock. The cap and collar are both made of durable ABS plastic.



**Replacement Parts**  
564029 Lock/Key Set A0720

Model No.	Description	Pipe Size	Weight
A0720-001	Locking Cap and Collar	4"	1.3 lbs.

# Monitoring Well Manholes

## A072I Monitoring Well Manholes

Size	Model No.	Style	Skirt Type	Overall Height	Clearhole ID	Max. Dia.	Weight
5"	* A072I-105	Bolt-down	Steel	8.5"	3.8"	6.0"	5.7 lbs.
	* A072I-106	Bolt-down	Steel	7.5"	4.5"	6.7"	6.3 lbs.
6"	* A072I-106A	Bolt-down	Steel	9.5"	4.5"	6.7"	6.5 lbs.
	* A072I-008	Bolt-down	Poly	12.3"	6.0"	9.9"	11.7 lbs.
8"	A072I-008CE	BD, Large Bolts, White Lid	Poly	12.3"	6.0"	9.9"	11.1 lbs.
	A072I-008LA	Lay-in	Poly	12.3"	7.8"	9.9"	10.4 lbs.
	A072I-088	Bolt-down	Poly	8.0"	6.0"	9.9"	
	* A072I-108	Bolt-down	Steel	12.7"	6.0"	9.9"	13.7 lbs.
	* A072I-188	Bolt-down	Steel	9.2"	6.0"	9.9"	12.8 lbs.
	A072I-188A	Bolt-down	Steel	7.0"	6.0"	9.9"	
	* A072I-188L	Lay-in	Steel	8.9"	7.8"	9.9"	11.9 lbs.
	A072I-208	Bolt-down	HD Steel	12.5"	6.0"	9.9"	12.7 lbs.
	A072I-308	BD, 3 Bolts, White Lid	Steel	8.8"	6.4"	9.4"	12.8 lbs.
	A072I-308A	BD, 3 Bolts, White Lid	Steel	12.8"	6.4"	9.4"	13.7 lbs.
	A0722-008**	Bolt-down	Poly	12.3"	6.0"	9.9"	12.4 lbs.
	* A072I-001	Bolt-down	Poly	12.0"	9.4"	15.1"	23.0 lbs.
	A072I-001CC	Bolt-down w/Rebar Tabs	Poly	12.0"	9.4"	15.1"	23.1 lbs.
	A072I-001L	Lay-in	Poly	12.0"	11.2"	13.8"	22.8 lbs.
12"	* A072I-101	Bolt-down	Steel	12.0"	9.4"	15.1"	28.8 lbs.
	A072I-101A	Bolt-down	Steel	18.0"	9.4"	15.1"	31.0 lbs.
	A072I-101L	Lay-in	Steel	12.0"	11.2"	13.8"	28.6 lbs.
	A072I-119	Bolt-down	Steel	19.0"	9.4"	15.1"	36.3 lbs.
	A072I-128	Bolt-down	Poly	8.1"	9.4"	15.1"	21.9 lbs.
	A072I-128A	Bolt-down	Steel	8.0"	9.4"	15.1"	23.6 lbs.
	A072I-201	Bolt-down	HD Steel	12.0"	9.4"	15.1"	28.0 lbs.
	A0722-001**	Bolt-down	Poly	12.0"	9.4"	15.1"	24.3 lbs.
	* A072I-018	Bolt-down	Steel	12.0"	14.1"	17.7"	51.0 lbs.
	A072I-118	Bolt-down	Steel	18.0"	14.1"	17.7"	58.3 lbs.

\*Most common variant, \*\*Includes locking cap & collar

### Lid Replacement Parts

Part No.	Lid	Description	Weight	Part No.	Lid	Description	Weight
494263	5"	Bolt 1/2" Hex, 3/8" Thd, 0.5 Lg		566334	8"	O-ring for 5/8" Bolt	0.4 oz.
569885	5"	Lid Gasket		567146	8"	Lid Gasket	0.1 lbs.
569883	5"	Lid Cast Bolt-down		563980	12"	Lid Ductile Bolt-down	12.6 lbs.
568692	6"	Lid Ductile Bolt-down	2.4 lbs.	569723	12"	Lid Ductile Lay-in	12.0 lbs.
568662	6"	Bolt 1/2" Hex, 5/16" Thd, 0.75 Lg		494262	12"	Bolt/O-ring 15/16" Hex, 5/8" Thd, 1.75 Lg	0.2 lbs.
568820	6"	Lid Gasket	0.1 lbs.	566334	12"	O-ring for 5/8" Bolt	0.3 oz.
569106	8"	Lid Ductile Bolt-down	5.4 lbs.	563593	12"	Lid Gasket	0.1 lbs.
569285	8"	Lid Ductile Lay-in	6.0 lbs.	567712	18"	Lid Ductile Bolt-down	35.0 lbs.
567150	8"	Lid Ductile BD, White	6.0 lbs.	494262	18"	Bolt/O-ring 15/16" Hex, 5/8" Thd, 1.75 Lg	0.2 lbs.
494260	8"	Bolt/O-ring 15/16" Hex, 5/8" Thd, 1.0 Lg		494375	18"	Bolt/O-ring 9/16" Hex, 3/8" Thd, 2.0 Lg	0.2 lbs.
494261	8"	Bolt/O-ring 9/16" Hex, 3/8" Thd, 1.0 Lg		566419	18"	O-ring for 9/16" Bolt	
566419	8"	O-ring for 9/16" Bolt	0.4 oz.	567995	18"	Lid Gasket	0.3 lbs.

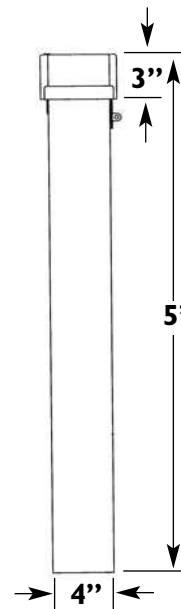
# Well Protectors

## A0727 Well Protectors

- Raintight Cap - one piece die cast aluminum cap is powdered coated for corrosion resistance and painted with contrasting black triangle
- Riveted Construction - cap overlaps hinge pins, preventing vandalism
- Lockable
- Top Kit - complete cap assembly for bare tubing
- Optimized height - clears tallest well plug



Stainless Steel Hinges  
Open 150°

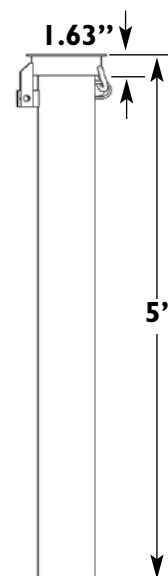


Model No.	Description	Material	Weight
A0727-004A	4"x4"x5' Square Well Protector	Aluminum	12.0 lbs.
A0727-004S	4"x4"x5' Square Well Protector	Steel	23.0 lbs.
A0727-004K	Top Kit for Bare Tubing	Aluminum	1.6 lbs.

Custom lengths available upon request

## A0728 Well Protectors

- Raintight Cap - welded steel construction cap overlaps pipe to prevent rain intrusion
- All Steel Construction
- Thick 14 gauge pipe
- Lockable
- Available in 4" & 6" diameters



Model No.	Description	Material	Weight
A0728-004	4"x5' Round Well Protector	Steel	30.0 lbs.
A0728-006	6"x5' Round Well Protector	Steel	39.9 lbs.

Custom lengths available upon request

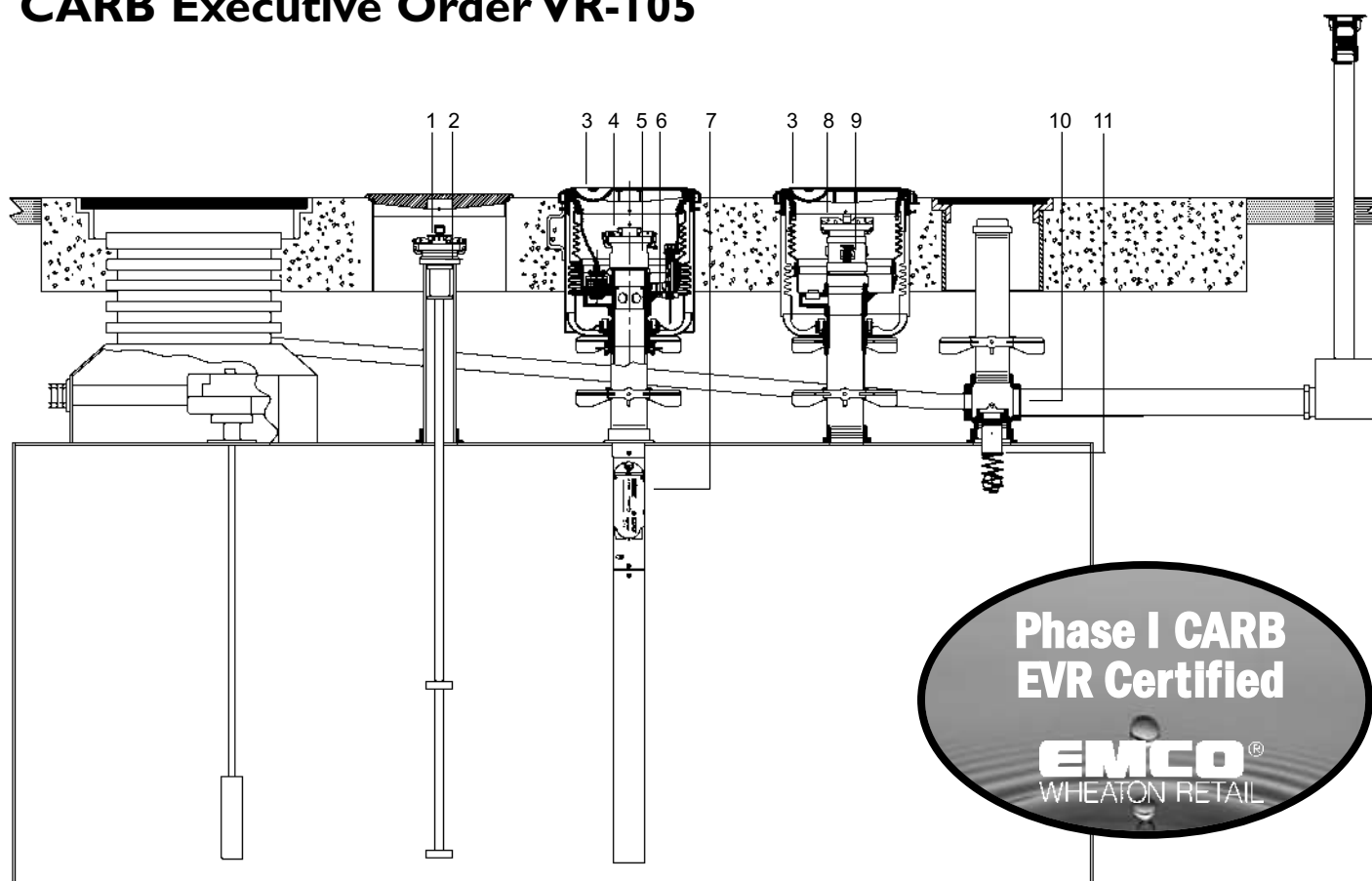






# Phase I Enhanced Vapor Recovery System

## CARB Executive Order VR-105



- 1. A0097 Fill Cap for Tank Probe**  
(Refer to p. 7)



- 2. A0030-014 ATG Adapter**  
(Refer to p. 5)



- 3. A1004EVR Spill Containment**  
(Refer to p. 62)



- 4. A0097 Fill Cap**  
(Refer to p. 7)



- 5. A0030-124S Fill Swivel Adapter**  
(Refer to p. 5)



- 6. 494096 Riser Seal**



- 7. A1100EVR OPV Assembly**  
(Refer to p. 63)



- 8. A0099 Vapor Cap**  
(Refer to p. 9)



- 9. A0076-124S Vapor Swivel Adapter**  
(Refer to p. 8)



- 10. A0079 Extractor Fitting**  
(Refer to p. 18)



- 11. A0075 Ball Float**  
(Refer to p. 20)

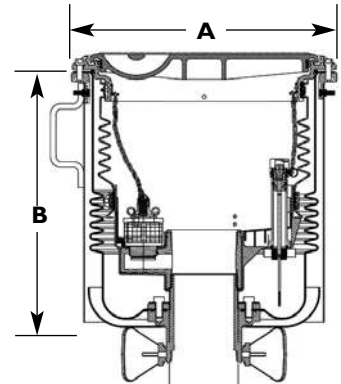


# Phase I Enhanced Vapor Recovery System

## A1004EVR Spill Containment

### Replaceable

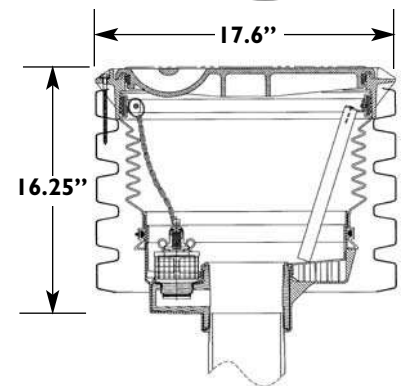
Ductile Iron Lid  
Heavy duty, snow plow resistant ductile iron rim  
Triple Wiper Seal  
HDPE Bellows Primary and Secondary Liners  
Vapor Tight Drain Assembly  
4 inch NPT or BSPT Thread



	Model No.	Description	Overall Dia. A	Screw-on Height B	Lid Dia.	Lid Weight	Total Weight	Drain Type
<b>Single Wall</b>	A1004EVR-210A	Single Wall, 5 gal	17.6"	14.5"	15.3"	20.0 lbs.	85.0 lbs.	Pull/Push
	A1004EVR-211A	Single Wall, 5 gal	17.6"	13.5"	15.3"	20.0 lbs.	81.0 lbs.	None
	A1004EVR-316A	SW, 16" center, 5 gal	16.0"	15.9"	13.2"	15.9 lbs.	68.5 lbs.	Pull/Push
	A1004EVR-317A	SW, 16" center, 5 gal	16.0"	15.9"	13.2"	15.9 lbs.	68.4 lbs.	None
	A1004EVR-215A	Single Wall, 15 gal	22.6"	18.0"	17.1"	29.5 lbs.	126.0 lbs.	Pull/Push
<b>Double Wall</b>	A1004EVR-210S	Double Wall, 5 gal	17.6"	18.0"	15.3"	20.0 lbs.	92.0 lbs.	Pull/Push
	A1004EVR-211S	Double Wall, 5 gal	17.6"	16.3"	15.3"	20.0 lbs.	81.0 lbs.	None
	A1004EVR-316S	DW, 16" center, 5 gal	16.0"	15.9"	13.2"	15.9 lbs.	98.3 lbs.	Pull/Push
	A1004EVR-317S	DW, 16" center, 5 gal	16.0"	15.9"	13.2"	15.9 lbs.	98.2 lbs.	None
	A1004EVR-215S	Double Wall, 15 gal	22.6"	19.0"	17.1"	29.5 lbs.	149.4 lbs.	Pull/Push

### Non-Replaceable

Heavy duty, snow plow resistant ductile iron rim  
Triple Wiper Seal  
HDPE Bellows Liner  
Deep polyethylene gravel guard accommodates thick concrete pads  
One piece fiberglass base with vapor tight drain assembly  
4 inch NPT or BSPT thread



Model No.	Description	Lid Dia.	Lid Weight	Total Weight	Drain Type
A1004EVR-010	Slimline, 4", 5 gal	15.3"	20.0 lbs.	58.5 lbs.	Pull/Push
A1004EVR-011	Slimline, 4", 5 gal	15.3"	20.0 lbs.	57.9 lbs.	None

### Replacement Kits & Parts

Part No.	Description	Weight
494360EVR	Primary Replacement Kit (-210A)	44.0 lbs.
494466EVR	Primary Replacement Kit (-211A)	44.0 lbs.
494350EVR	Primary Replacement Kit (-210S)	45.5 lbs.
494467EVR	Primary Replacement Kit (-211S)	47.7 lbs.
494602EVR	Primary Replacement Kit (-215A)	
494550EVR	Primary & Secondary Kit (-215S)	90.2 lbs.
494660EVR	Primary & Secondary Kit (-216S)	88.0 lbs.



P/N 493118  
Drain Valve  
Kit w/Filter

Part No.	Description
A1004-210LID	Lid & Seal 5 gallon
493806	Lid & Seal Slimline
567166K	Triple Wiper Seal
A7901-302K	Adapter, 4" NPSM/NPT
494554	Lid & Seal 15 gallon
569227	Triple Wiper Seal
494118	Drain Valve Kit w/Filter
493820	Drain Wrench
494367	Dipstick Assembly

# Phase I Enhanced Vapor Recovery System

## AI100EVR Overfill Prevention Valve

Phase I CARB  
EVR Certified

**EMCO**  
WHEATON RETAIL

*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® 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® seals** for vapor-tight performance

**Straight through design gives highest flow rate**

**Compatible with all standard fuels**

### Material

Body: Aluminum

Floats: HDPE

Seals: Viton®

Viton® is a registered trademark of DuPont Dow Elastomers.

**Vapor Tight  
No Epoxy**



566675  
Drilling Fixture

Model No.	Description	Upper Length A	Lower Length B	Overall Length C	Max. Burial Depth	Nominal Tank Dia.	Weight
AI100EVR-055	Dual Pt Screw-Together	77"	92"	169"	6.0'	8'	25.2 lbs.
AI100EVR-056	Dual Pt Screw-Together	89"	104"	193"	7.0'	10'	27.2 lbs.
AI100EVR-057	Dual Pt Screw-Together	89"	130"	219"	7.0'	12'	30.3 lbs.
AI100EVR-058	Dual Pt Screw-Together	127"	130"	257"	10.0'	12'	31.0 lbs.
493734E	Support Collar Kit	--	--	--	--	--	01.1 lbs.
566675	Drill Fixture	--	--	--	--	--	03.8 lbs.
569461	Drop Tube O-ring	--	--	--	--	--	00.1 lbs.

*Custom lengths are available upon request*

# Phase I Enhanced Vapor Recovery System

## A0020EVR Drop Tube

The A0020EVR Drop Tube fits directly into the tank riser pipe to permit tight fill submerged filling with reduced turbulence and minimal vapor loss. 4" diameter.

Model No.	Length	Weight
<b>Rolled Edge Collar</b>		
A0020EVR-004	12'	13.0 lbs.
A0020EVR-005	15'	16.1 lbs.
A0020EVR-007	17'	18.2 lbs.
A0020EVR-008	14'	14.0 lbs.
<b>Heavy Duty Collar</b>		
A0020EVRC-004	12'	13.7 lbs.
A0020EVRC-005	15'	16.8 lbs.
A0020EVRC-007	17'	18.9 lbs.
A0020EVRC-008	14'	14.7 lbs.

### Replacement Parts

569461 Drop Tube O-ring

#### Material

Tube: Aluminum  
Seals: Viton®

Viton® is a registered trademark of DuPont Dow Elastomers.



Standard Rolled Edge



Heavy Duty Collar

**Extractor fittings and ball floats** are not required components of the vapor recovery system, but may be installed without violating the Executive Order. Refer to pages 18 and 20 for product information on the A0075 Ball Float and A0079 Extractor Fitting.



## EVR Installation and Maintenance Tools

### A0081-001C Adapter Wrench

Installation, torque tightening and removal of Emco Wheaton adapters



### 493820 Drain Wrench

Installation and removal of the Emco Wheaton A1004 Spill Containment Drain Valve



### 494120 Riser Seal Wrench

Installation and removal of the center insert of the Emco Wheaton Riser Seal



### 494240 Adapter Torque Wrench

Use to verify the static torque of the swivel adapter in accordance to CARB Test Procedure TP201.1B



### 494241 Spill Containment Wrench

Installation and removal of the Emco Wheaton A1004 Spill Containment. A hex bolt is welded to the top of the wrench allowing use with a torque wrench



### 566675 Drill Fixture

Use to accurately drill the rivet holes on the top drop tube for the A1100 collar assembly







# Balance Phase II Enhanced Vapor Recovery

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



**A4005EVR Balance Vapor Recovery Nozzle**



**A4119EVR Coaxial SafeBreak® Valve**

**CARB EVR approved for use with:**

## Processors



**Veeder-Root Polisher Canister**



**Healy Clean Air Separator**



**Hirt VCS-100 Oxidizer**

## ISD Systems



**Franklin Fueling INCON**

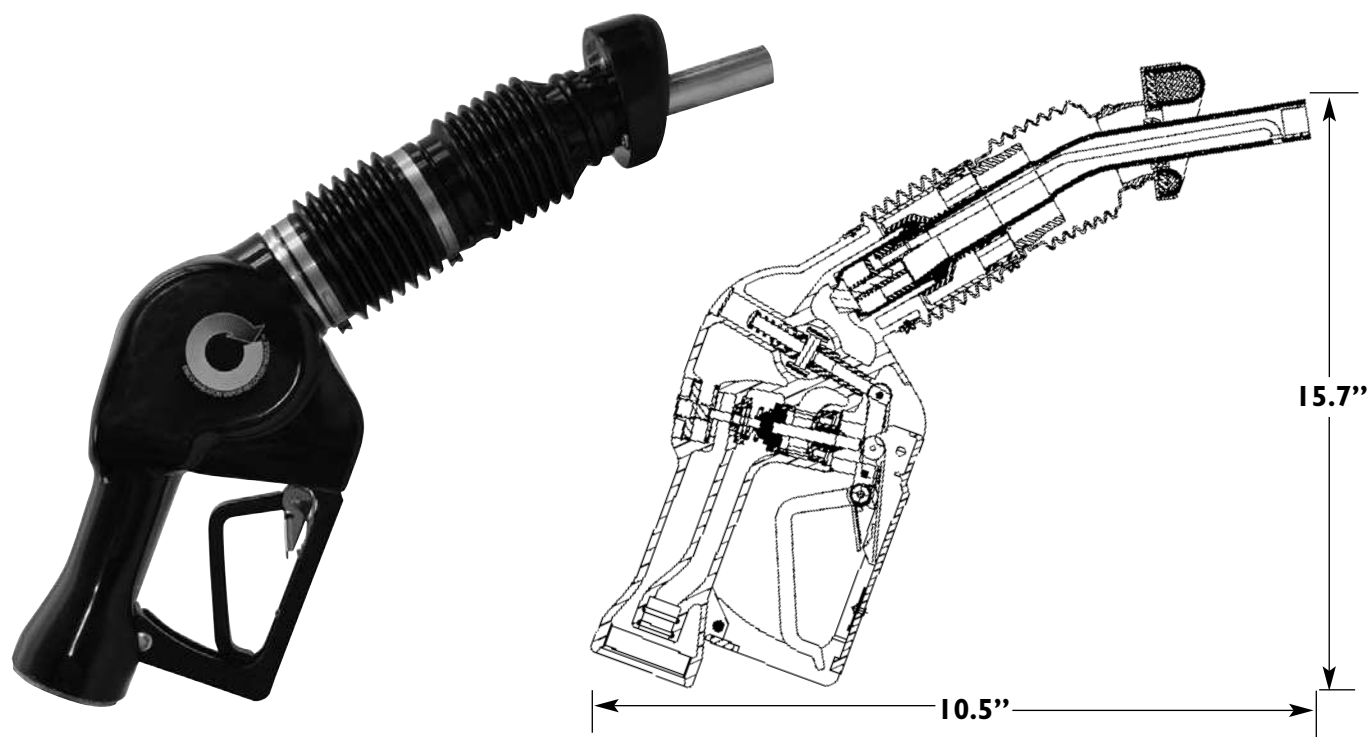


**Veeder-Root TLS-350**



# Balance Phase II EVR Components

## A4005EVR Balance System Vapor Recovery Nozzle



The 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.

- CARB EVR Executive Orders VR-203, VR-204, VR-207, VR-208
- CARB Pre-EVR Mix & Match Approval Letter #09-10/ Advisory #408
- California State Fire Marshall GVRC 005:007:025
- California Division of Measurement Standards 3211(d)-09
- UL Listing MH1460



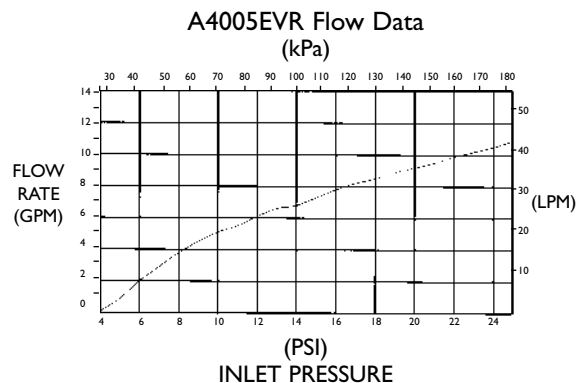
### Material

Body & Spout: Aluminum  
Lever & Guard: Thermoplastic  
Seals: Nitrile & Viton®  
Scuff Guard: Vinyl

Viton® is a registered trademark of DuPont Dow Elastomers.

Model No.	Description	Weight
A4005EVR-052	New Unleaded	4.7 lbs.

Refer to page 70 for Phase II EVR repair and replacement kits and tools.



# Balance Phase II EVR Components

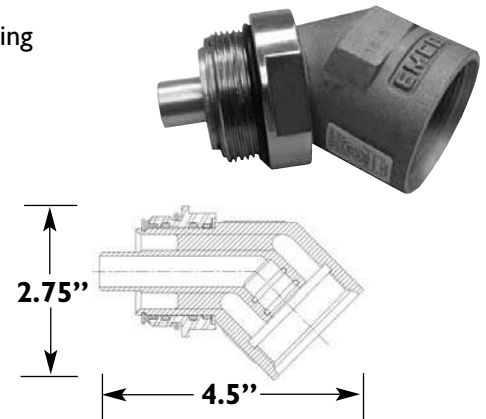
## A4110EVR Coaxial Hose Swivel

The A4110EVR 45° hose swivel provides a full range of movement to minimizing kinking and twisting of the coaxial curb hose during routine vehicle refueling. Complies with CARB CP-201 Enhanced Vapor Recovery EVR Program.

Model	Description	Weight	List
A4110EVR-001	Coaxial Hose Swivel	1.3 lbs.	\$94.95

### Repair Kits & Replacement Parts

Model	Description	Material
494748EVR	Fuel Path O-ring Kit	Body: Cast Aluminum
494749EVR	Vapor Path O-ring Kit	Snap ring: Plated Steel
		Swivel nut: Chrome Plated Brass



## A4119EVR Coaxial SafeBreak® Valve

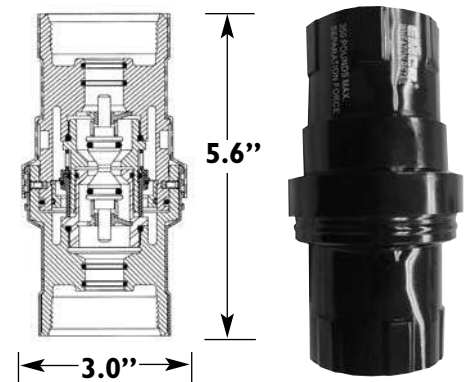
The A4119EVR Coaxial SafeBreak Valve is a shear pin style non-reconnectable component designed for use with Balance Phase II Vapor Recovery Systems. A dual poppet design seals off both the fuel and vapor paths upon separation due to customer related “drive-off” occurrences, eliminating fuel spillage,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

Model No.	Description	Weight
A4119EVR-020	Coaxial Shear Pin	1.6 lbs.

### Repair Kits & Replacement Parts

Model	Description
494748EVR	Fuel Path O-ring Kit

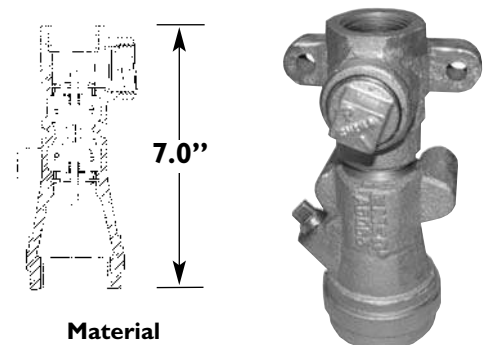
**Material**  
 Body: Aluminum  
 O-rings: Buna-N  
 Protective Cover: Vinyl



## A0063EVR Vapor Shear Valve

The A0063EVR vapor shear valve installs on the phase II vapor riser below the dispenser to eliminate the escape of vapors in the event of a collision to the dispenser. The double poppet valve incorporates a 1.5” female NPT connection to the underground piping and a 1” female NPT connection to dispenser piping. The valve incorporates a 3/8” test port. Mounting Kit is included. Approved for use with all CARB certified pre-EVR and EVR phase II vapor recovery systems.

Model No.	Description	Inlet	Outlet	Weight
A0063EVR-024	1 1/2” Double Poppet	Female	Female	9.0 lbs.



**Material**  
 Body: Cast Iron  
 Spring: Stainless Steel  
 Seal: Viton®  
 Viton® is a registered trademark of DuPont Dow Elastomers.

# Balance Phase II EVR Components

## A4005EVR Nozzle Repair Kits & Replacement Parts



492775EVR  
Bellows & Boot Face Kit



492834EVR  
Spout Kit



492776EVR  
Boot Face Kit



494150EVR  
Latch Kit

Kit No.	Description	Weight
492775EVR	Bellows & Boot Face Kit	0.4 lbs.
492776EVR	Boot Face Kit	0.2 lbs.
492834EVR	Spout Kit	0.6 lbs.
494150EVR	Latch Kit	0.5 lbs.
494748EVR	Fuel Path O-ring Kit	
494750EVR	Bellows Band Clamp Kit	0.1 lbs.
A0557EVR-xxx	Scuff Guard	0.4 lbs.



## A4005EVR Nozzle Required Service Tools

### 1. 494655EVR Balance Phase II EVR Service Kit

Includes all Phase II installation and maintenance tools and sturdy, canvas tool bag

### 2. 494635EVR Spout Plug

Use to conduct CARB test procedure TP-201.6 or TP-201.6C Liquid Removal Test

### 3. 494652EVR Bellows Band Clamp Crimp Tool

Use to install and crimp the A4005EVR nozzle bellows band clamps

### 4. 494653EVR Lever Guard Rivet Installation Tool

Use to install the A4005EVR nozzle lever guard rivets

### 5. 494654EVR Lever Guard Rivet Removal Tool

Use to remove the A4005EVR nozzle lever guard rivets

### 6. 494712EVR Bellows Retainer Plate Tool

Use to secure the A4005EVR nozzle bellows during installation of the bellows band clamps

### 7. 494761EVR Balance Nozzle Adapter

Use to test and verify the accuracy of the ISD vapor flow meter

### 8. 494771EVR Surrogate Spout Assembly

Use to conduct a leak tightness integrity test on the ISD vapor flow meter test assembly





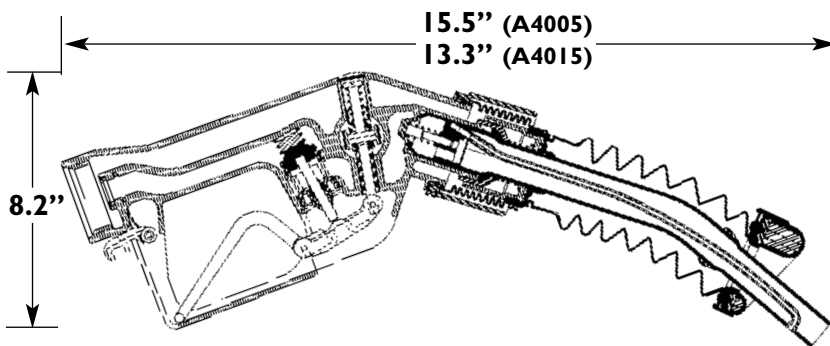


# Balance System

## A4005/A4015 Vapor Recovery Nozzle w/Vapor Valve



A4015 Short Spout



■ CARB Executive Order G-70-199-AJ  
 UL Listed MH1460  
 ULC Listed CMH651  
 Approved by the N.Y. Department of  
 Environmental Conservation and the Oregon  
 Department of Environmental Quality

The A4005/A4015 Vantage has proven itself as the balance vapor recovery nozzle of choice. Developed to be user friendly, the A4005/A4015 utilizes the most up-to-date vapor recovery technology available.

The A4005/A4015 offers the same lightweight and streamlined design advantages characteristic of the A4000 series product line. A low restriction vapor valve is built into the A4005/A4015 so it does not require an external vapor valve. This nozzle includes the no-seal, no-flow interlock mechanism and automatic shutoff for reliable, safe operation. It also has an internal pressure shutoff to detect vapor blockage.

**Note:** The part numbers below include the standard glossy black scuff guard. For additional scuff guard color availability, refer to the Nozzle Variant Number chart on page 70.

### Material

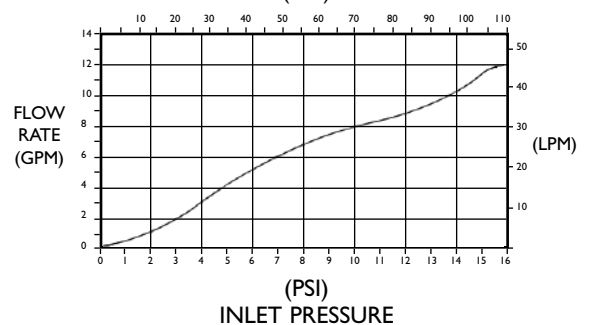
Body & Spout: Aluminum  
 Lever: Thermoplastic  
 Lever Guard: Aluminum  
 Seals: Nitrile & Viton  
 Scuff Guard: Vinyl

Viton® is a registered trademark of DuPont Dow Elastomers.

Model No.	Description	Weight
A4005-002	New Unleaded	4.6 lbs.
A4005-004	Rebuilt Unleaded	4.6 lbs.
A4005-002E	New Unleaded E85	4.6 lbs.
A4015-002	New Unleaded Short Spout	4.4 lbs.
A4015-004	Rebuilt Unleaded Short Spout	4.4 lbs.
A4015-002E	New Unleaded E85 Short Spout	4.4 lbs.

Refer to page 70 for replacement items

A4005/A4015 Flow Data  
 (kPa)



# Balance System

## A4005/A4015 Balance Nozzle

### A4005 Replacement Parts

Kit No.	Description	Weight
493040	Spout Kit - Unleaded	2.0 lbs.
493042	Boot Face Kit	0.2 lbs.
493047	Clamp & Cover Kit	0.4 lbs.
493062	Latch Kit	0.1 lbs.
493780	Boot Only Kit	1.0 lbs.
493781	Boot & Face Kit	0.7 lbs.
493846	Front End Kit - Spout/Boot	1.5 lbs.
563834	Clamp 52.2 mm	0.2 oz.
566965	Clamp 66.0 mm	0.3 oz.

### A4015 Replacement Parts

Kit No.	Description	Weight
493042	Boot Face Kit	0.2 lbs.
493047	Clamp & Cover Kit	0.4 lbs.
493062	Latch Kit	0.1 lbs.
493398	Spout Kit - Unleaded	0.6 lbs.
493400	Boot & Face Kit	0.5 lbs.
493584	Boot Only Kit	0.4 lbs.
493847	Front End Kit - Spout/Boot	0.9 lbs.
563834	Clamp 52.2 mm	0.2 oz.
566965	Clamp 66.0 mm	0.3 oz.

### A4005/A4015 Scuff Guards

### Nozzle Variant Numbers

Model No.	Description	Weight	A4005 New	A4005 Rebuilt	A4015 New	A4015 Rebuilt
565048	<b>Black</b> Emco Logo	0.4 lbs.	-002	-004	-002	-004
565148	<b>Black</b> No Logo	0.4 lbs.	-146	-150	-024	-032
565372	<b>Gold</b> Amoco Emco Logo	0.4 lbs.	-147	-128	-019	-047
565373	<b>Silver</b> Amoco Emco Logo	0.4 lbs.	-114	-129	-008	-046
567728	<b>Blue</b> Amoco Emco Logo	0.4 lbs.	-157	-158		

## A4000 Series Balance Nozzle Core Policy

Current Production Return Nozzle	Emco Wheaton Core Value	Return for Credit Against the Following Nozzles
Emco A4005	\$45	Rebuilt A4005 or A4015
Emco A4015	\$45	Rebuilt A4005 or A4015
Emco A4005EVR	\$85	New A4005EVR
Competitor EVR	\$85	New A4005EVR

**Credits:** Cores must be returned within 90 days of rebuilt nozzle invoice for credit.

Cores with broken bodies, stripped threads or damaged in any way that limits their ability to be rebuilt, will not be accepted for credit.

Cores returned without spout and bellows assembly intact will be subject to a 50% core value reduction.

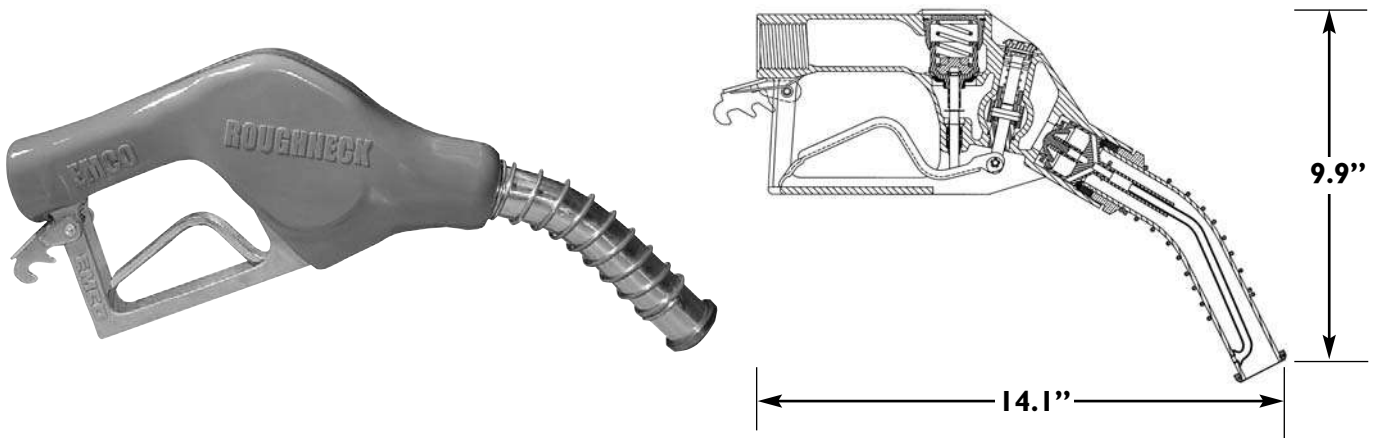
**Invoicing:** Rebuilt nozzle orders will be invoiced at list price less your discount. Acceptable nozzle cores will be credited against those invoices.

**Freight:** Inbound freight charges for cores must be prepaid by distributor.

**Nozzle Core Bank:** Nozzle cores may be sent to Emco in anticipation of future nozzle purchases. Emco will store the cores in the distributor's account. All stored cores must be applied to purchases within 18 months of receipt by Emco. Cores stored longer than 18 months will be discarded and no credit given.

# Automatic Nozzles

## A6000 Roughneck® Truck Stop Nozzle

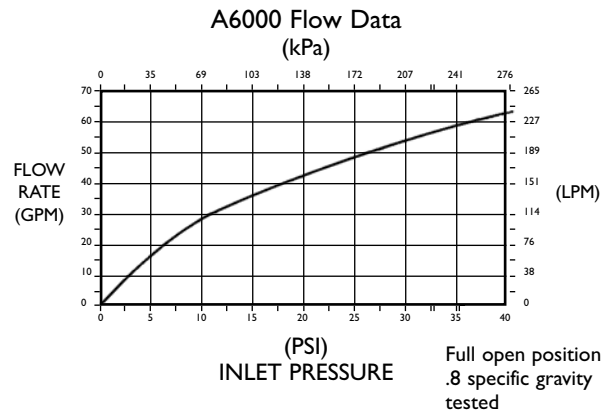


The A6000 Roughneck® is a full-flow automatic nozzle for up to 60 GPM, designed for the unique durability requirements of truck stops. The A6000 has a modern, human engineered shape that's lighter, more comfortable to handle and much easier to use. Its rugged unibody construction, thick walled spout and stamped steel lever are built for durability, long lasting reliability, and maximum flow rates. The A6000 features a hold-open latch and vinyl scuff guard. Spout Kits and a variety of scuff guard colors are available. Every A6000 Roughneck® nozzle features the standard Emco Wheaton 12 month warranty. Spout ID is 1"; OD is 1 3/16".

For retaining ring on spout, specify B suffix after part number.

### Material

Body & Spout: Aluminum  
Lever: Steel  
Lever Guard: Aluminum  
Seals: Nitrile  
Scuff Guard: Vinyl



Model No.	Scuff Color	Inlet Size	Weight
A6000-001	Black	1"	4.7 lbs.
A6000-001B	Black	1"	4.8 lbs.
A6000-002	Black	1" BSPT	4.7 lbs.
A6000-007*	Black	1" BSPT	4.7 lbs.
A6000-010	Yellow	1"	4.7 lbs.
A6000-012	Green	1"	4.7 lbs.
A6000-012B	Green	1"	4.8 lbs.

\*Attitude Device

B versions include spout retaining ring

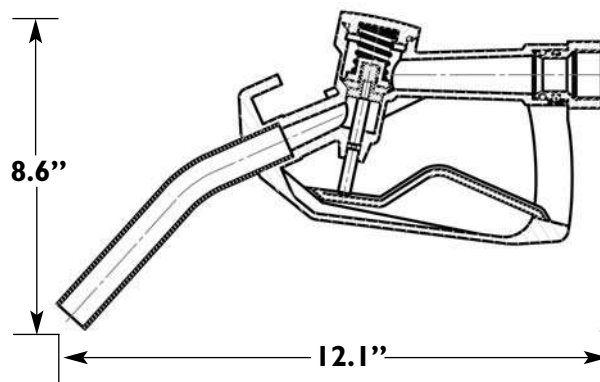
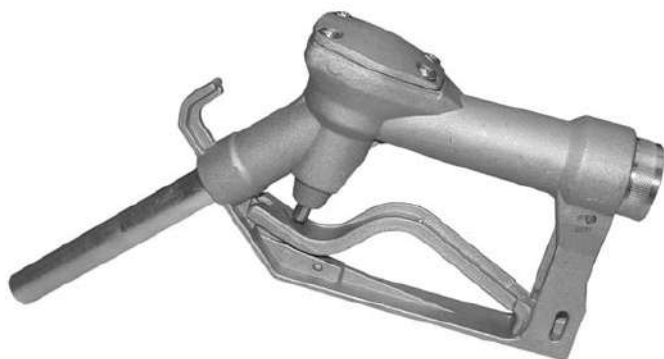
### A6000 Replacement Parts

Kit No.	Description	Weight
492958	Latch Kit	
492769	Spout Kit	1.0 lbs.
562587	Black Scuff	0.8 lbs.
565912	Yellow Scuff	0.8 lbs.
566176	Green Scuff	0.8 lbs.



# Manual Utility Nozzles

## A0845 Farm Utility Nozzle



The A0845 is a dependable, economical nozzle designed for low volume use with small pressure pumps or gravity flow systems such as overhead farm service tanks. The A0845 consists of only nine parts, and no special tools are needed for adjustments or repair.

■ UL Listed MH1460

### Material

Body & Spout: Aluminum  
Lever: Aluminum  
Lever Guard: Aluminum  
Seals: Nitrile

Model No.	Inlet	Spout	Fuel	Weight
A0845-011	3/4"	15/16"	Leaded	2.4 lbs.
A0845-012	3/4"	13/16"	Unleaded	1.9 lbs.
A0845-013	1"	15/16"	Leaded	2.1 lbs.
A0845-014	1"	13/16"	Unleaded	3.0 lbs.

## A0500 Splash Guard

The A0500 Splash Guard is constructed of PVC and is for use on all conventional nozzles.

Model No.	Color	Weight
A0500-002	Black	0.1 lbs.

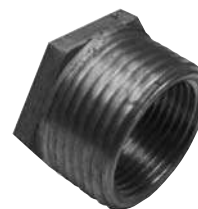
Additional colors are available upon request; please contact our Customer Service Department at 800-234-4394.



## 470002 Reducer Bushing

The 470002 Reducer Bushing is used on a conventional nozzle to convert a 1" inlet to a 3/4" inlet.

Kit No.	Description	Weight
470002	Reducer Bushing	0.1 lbs.



## DISPENSER ACCESSORIES



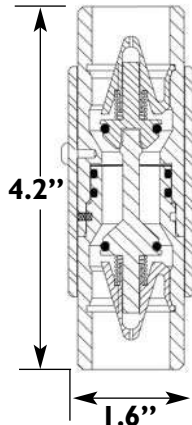
## 3/4" Standard

### A2119 Shear Pin SafeBreak®

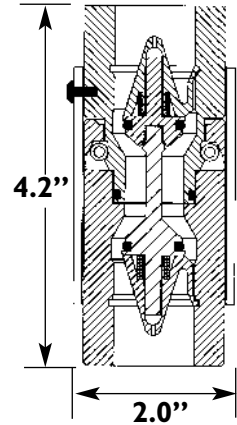
### A2219 Reconnectable SafeBreak®



**Shear Pin**



**Reconnectable**



#### Material

Body: Aluminum

O-rings & Seals: Buna-N & Viton®

Protective Cover: Plastic

Viton® is a registered trademark of DuPont Dow Elastomers

- UL Listed MH17833
- ATEX (A2119, A2219-004) FTZU07ATEX0240
- ATEX (A2119-003) SIRA03ATEX9396U
- ATEX (A2119-004) SIRA03ATEX9395U
- ETL 536786

The Emco Wheaton A2119 Standard SafeBreak® has an economical shear pin design with 3/4" connection for standard hose applications. The double poppets seal both hoses upon separation.

The Emco Wheaton A2219 Standard SafeBreak® allows for immediate return to service after a drive-away, with no repair kit required. This is made possible by a unique, reconnectable design. The double poppets seal both hoses upon separation.

Model No.	Description	Weight
A2119-002	3/4" Shear Pin NPT	0.4 lbs.
A2119-003	3/4" Shear Pin BSPP	0.4 lbs.
A2219-002	3/4" Reconnectable NPT	0.8 lbs.
A2219-004	3/4" Reconnectable BSPP	0.8 lbs.

# SafeBreak®

## I" Standard

### A3019 Shear Pin SafeBreak®

### A3219 Reconnectable SafeBreak®



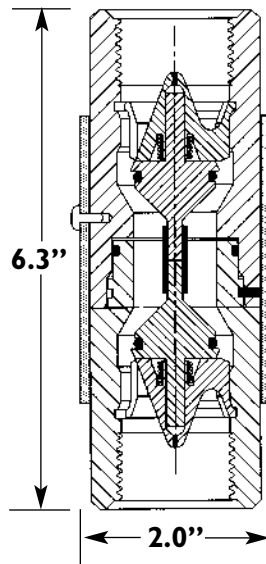
#### Material

Body: Aluminum

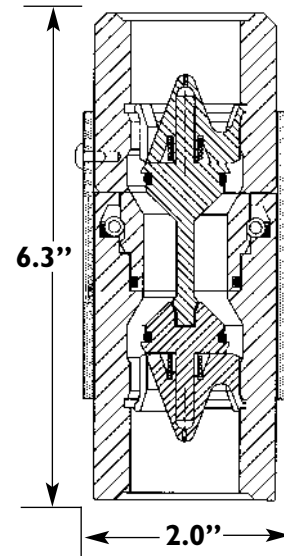
O-rings & Seals: Buna-N & Viton®

Protective Cover: Plastic

Viton® is a registered trademark of DuPont Dow Elastomers



Shear Pin



Reconnectable

■ UL Listed MH17833  
ATEX (A3019-003) SIRA03ATEX9396U

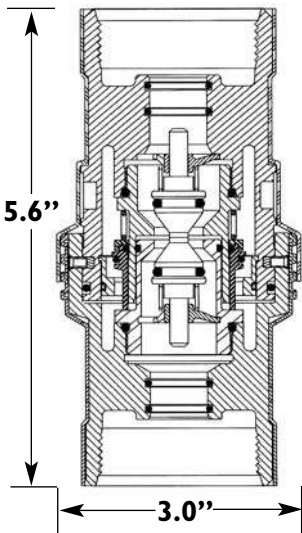
The Emco Wheaton A3019 Standard SafeBreak® has an economical shear pin design with 1" connection for standard hose applications. The double poppets seal both hoses upon separation.

The Emco Wheaton A3219 Standard SafeBreak® with a 1" hose connection, allows for immediate return to service after a drive-away, with no repair kit required. This is made possible by a unique, reconnectable design. The double poppets seal both hoses upon separation.

Model No.	Description	Weight
A3019-001	1" Shear Pin NPT	1.0 lbs.
A3019-003	1" Shear Pin BSPP	1.0 lbs.
A3219-001	1" Reconnectable NPT	1.0 lbs.
A3219-003	1" Reconnectable BSPP	1.0 lbs.

Vapor Recovery Balance

A4I I9EVR Shear Pin SafeBreak®



**Material**  
Body: Aluminum  
O-rings: Buna-N  
Protective Cover: Vinyl

- CARB Approval 95-3
- UL Listed MH17833
- ULC Listed MH27243
- Approved under Phase II EVR
- Executive Orders VR-207 & VR-208, VR-203-I & VR-204-I



The Emco Wheaton A4I I9EVR Coaxial SafeBreak® is made with a cost-effective shear pin design for use with coaxial, balance type hoses. 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.

Model No.	Description	Weight
A4I I9EVR-020	Coaxial Shear Pin	1.6 lbs.
A4I I9-020E	Coaxial Shear Pin E85	1.6 lbs.
494748EVR	Fuel Path O-ring Kit	

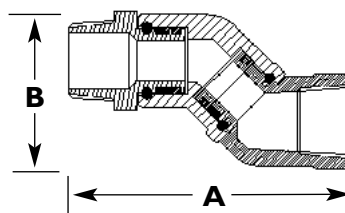
# Swivels

## A0360 Hose Swivel

### Material

Body: Aluminum  
Seal: Viton® & Fluorosilicone  
Connectors: Zinc & Brass

Viton® is a registered trademark of  
DuPont Dow Elastomers.



■ UL Listed MH6036

The Emco Wheaton A0360 Hose Swivel features a polished die-cast aluminum body with chrome plated male fittings. The teflon® bushings permit the hose and nozzle to move smoothly and freely on any plane or axis. Viton® o-rings provide positive sealing and compatibility with all fuels. Fluorosilicone o-rings provide excellent low temperature performance. The outlet swivel rotates 360° at the nozzle inlet to keep the nozzle in a comfortable, upright position, and prevents hose kinking and wear. The A0360 is designed for non-vapor recovery applications and is available with .75" or 1.0" NPT or BSPP or BSPT threads.

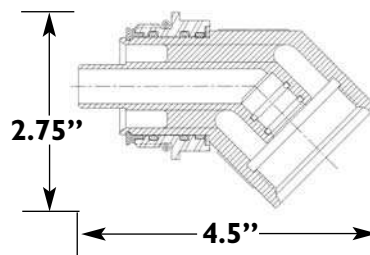
Model No.	Hose Connection Size	Nozzle Connection Size	A	B	Weight
A0360-075	3/4" Female	3/4" Male	4.0"	2.2"	0.6 lbs.
A0360-075E*	3/4" Female	3/4" Male	4.0"	2.2"	0.6 lbs.
A0360-076	3/4" Female BSPT	3/4" Male BSPT	4.0"	2.2"	0.6 lbs.
A0360-077	3/4" Female BSPP	3/4" Male BSPP	4.0"	2.2"	0.6 lbs.
A0360-100	1" Female	1" Male	4.4"	2.6"	0.8 lbs.
A0360-101	1" Female BSPT	1" Male BSPT	4.4"	2.6"	0.8 lbs.
A0360-102	1" Female BSPP	1" Male BSPP	4.4"	2.6"	0.8 lbs.

\*E85

## A4110EVR-001 Coaxial Hose Swivel

### Material

Body: Cast Aluminum  
Snap ring: Plated Steel  
Swivel nut: Chrome Plated Brass



The Emco Wheaton A4110EVR Coaxial Hose Swivel is designed for use with balanced vapor recovery nozzles. The 45° hose swivel provides a full range of movement to minimizing kinking and twisting of the coaxial curb hose during routine vehicle refueling.

■ CARB Approval 92-14  
UL Listed MH6036  
Approved under Phase II EVR  
Executive Orders VR-207 & VR-208

Model	Description	Weight
A4110EVR-001	Coaxial Swivel	1.3 lbs.
A4110-001E	Coaxial Swivel E85	1.3 lbs.
494748EVR	Fuel Path O-ring Kit	
494749EVR	Vapor Path O-ring Kit	

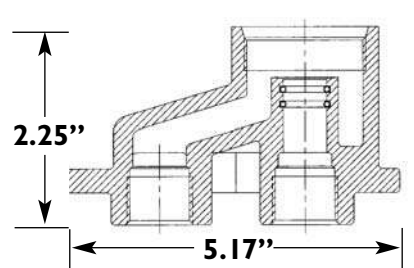
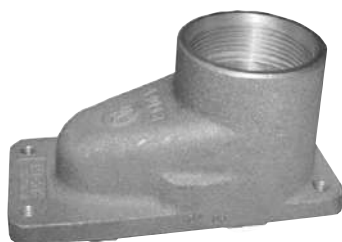


## A4043 Splitter

### Material

Body: Aluminum

O-rings: Buna



■ CARB Approval 94-26  
UL Listed MH10206  
ULC Listed MH27243

The Emco Wheaton A4043 Splitter is for use on coaxial balance Stage II Vapor Recovery Systems. The cast aluminum body is lightweight and strong. The A4043 includes two buna o-rings for a reliable hose seal.

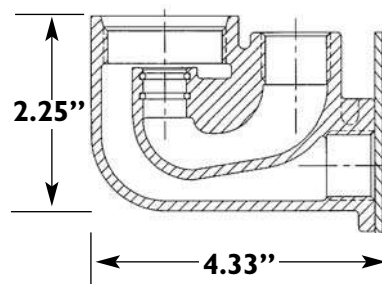
Model No.	Application	Material	Port Size	Weight
A4043-001	High Hose Mount	Aluminum	1 7/8"	2.0 lbs.

## A4041 Splitter

### Material

Body: Aluminum

O-rings: Buna



■ CARB E.O. G-70-52-AL  
UL Listed MH10206  
ULC Listed MH27243

The Emco Wheaton A4041 Splitter is designed for converting a side mount dispenser which is not vapor ready into a coaxial vapor recovery system. For vertical island plumbing of the vapor line, order the A4041-001. For plumbing the vapor line through the dispenser wall, order the A4041-002.

Model	Application	Material	Weight	Port Sizes	
A4041-001	Island Mount	Aluminum	2.1 lbs.	Fuel Inlet	3/4"
A4041-002	Dispenser Mount	Aluminum	1.6 lbs.	Vapor Outlet	3/4"
A4041-003	Island Mount	Nickel Plated	2.5 lbs.	Coaxial	1 7/8"



# Adapters/Flow Regulators

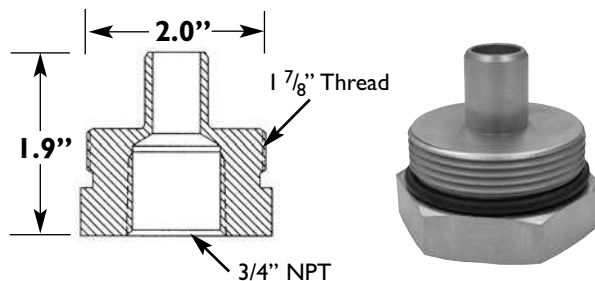
## 563639 Adapter

The Emco Wheaton 563639 Adapter allows you to retrofit the dispenser for Balance Stage II before installing the nozzle and hose. The 563639 Adapter converts a coaxial outlet to a 3/4" NPT outlet, temporarily plugging the vapor path until you are ready to install the balanced vapor recovery nozzle and hose.

### Material

Body: Aluminum  
O-rings: Buna

Model No.	Weight
563639	0.3 lbs.



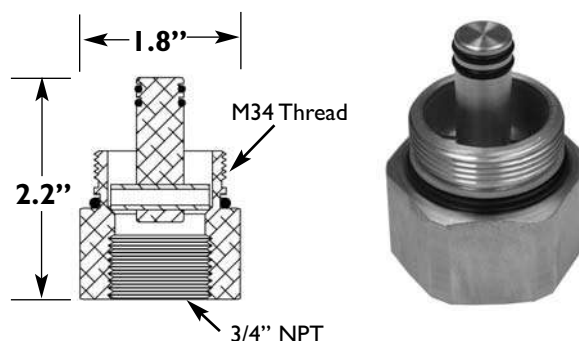
## 563639AST Adapter

The Emco Wheaton 563639AST Adapter allows you to retrofit a vacuum assist dispenser to use conventional hanging hardware.

### Material

Body: Aluminum  
O-rings: Buna

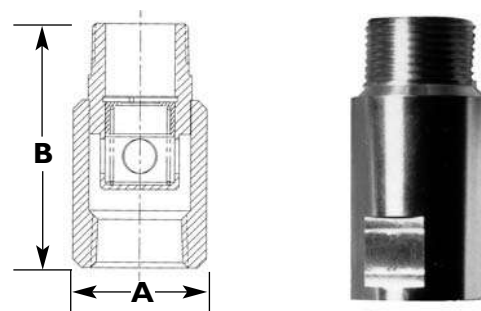
Model No.	Weight
563639AST	0.8 lbs.



## A0010 Flow Regulator

The Emco Wheaton A0010 is an in-line liquid flow regulating device calibrated to limit flow to 10 gpm, in accordance with Federal EPA requirements. The A0010 is manufactured from zinc-plated steel or aluminum with 3/4" ports.

■ CARB E.O. G-70-118-AB  
UL/ULC Listed MH10206



Model	Material	Inlet	Outlet	Installation	A	B	Weight
A0010-003	Steel	Male	Female	Dispenser Outlet	1.44"	2.7"	1.0 lbs.
A0010-010	Aluminum	Female	Male	Nozzle Inlet	1.13"	2.5"	0.3 lbs.
A0010-011	Aluminum	Male	Female	Dispenser Outlet	1.13"	2.5"	0.3 lbs.

# Hose Assemblies

## A002I Standard Hose Assemblies

3/4"

Model No.	Description	Weight	Model No.	Description	Weight
A002I-140	6" Whip Hose	0.56 lbs.	A002I-149	9" Whip Hose	0.66 lbs.
A002I-145	8" Whip Hose	0.62 lbs.	A002I-150	10" Whip Hose	0.69 lbs.
A002I-148	9" Whip, Swivel One End	0.70 lbs.	A002I-155	12" Whip Hose	0.75 lbs.

Model No.	Description	Weight
A002I-300	8.0' Curb Pump Hose	3.51 lbs.
A002I-301	8.0' Curb Pump Hose, Swivel One End	3.55 lbs.
A002I-303	8.5' Curb Pump Hose	3.71 lbs.
A002I-304	8.5' Curb Pump Hose, Swivel One End	3.75 lbs.
A002I-305	9.0' Curb Pump Hose	3.90 lbs.
A002I-306	9.0' Curb Pump Hose, Swivel One End	3.95 lbs.
A002I-307	9.0' Curb Pump Hose, Swivel Both Ends	3.99 lbs.
A002I-308	9.5' Curb Pump Hose	4.10 lbs.
A002I-309	9.5' Curb Pump Hose, Swivel One End	4.14 lbs.
A002I-310	10.0' Curb Pump Hose	4.30 lbs.
A002I-311	10.0' Curb Pump Hose, Swivel One End	4.34 lbs.
A002I-313	10.5' Curb Pump Hose	4.49 lbs.
A002I-314	10.5' Curb Pump Hose, Swivel One End	4.54 lbs.
A002I-315	11.0' Curb Pump Hose	4.69 lbs.
A002I-316	11.0' Curb Pump Hose, Swivel One End	4.73 lbs.
A002I-320	12.0' Curb Pump Hose	5.08 lbs.
A002I-321	12.0' Curb Pump Hose, Swivel One End	5.13 lbs.
A002I-325	13.0' Curb Pump Hose	5.48 lbs.
A002I-326	13.0' Curb Pump Hose, Swivel One End	5.52 lbs.
A002I-330	14.0' Curb Pump Hose	5.87 lbs.
A002I-331	14.0' Curb Pump Hose, Swivel One End	5.91 lbs.
A002I-335	15.0' Curb Pump Hose	6.27 lbs.
A002I-336	15.0' Curb Pump Hose, Swivel One End	6.31 lbs.
A002I-345	17.0' Curb Pump Hose	7.05 lbs.
A002I-346	17.0' Curb Pump Hose, Swivel One End	7.10 lbs.
A002I-350	18.0' Curb Pump Hose	7.45 lbs.
A002I-351	18.0' Curb Pump Hose, Swivel One End	7.49 lbs.
A002I-355	19.0' Curb Pump Hose	7.84 lbs.
A002I-356	19.0' Curb Pump Hose, Swivel One End	7.88 lbs.
A002I-360	20.0' Curb Pump Hose	8.23 lbs.
A002I-361	20.0' Curb Pump Hose, Swivel One End	8.28 lbs.
A002I-905	5.0' Curb Pump Hose	2.33 lbs.
A002I-925	30.0' Curb Pump Hose	12.17 lbs.
A002I-934	4.0' Curb Pump Hose	1.94 lbs.



- Couplings are available as internally expanded brass fittings  or brass inserts with crimped aluminum ferrules 
- Single-wire braid construction provides static conductivity and increases hose strength 
- Compatible with up to E15 ethanol blend gasoline and B20 biodiesel blends
- UL 330 listed
- Softwall hose assemblies also available
- Custom lengths are available

1"

Model No.	Description	Weight	Model No.	Description	Weight
A002I-170	6" Whip Hose	0.8 lbs.	A002I-400	8' Curb Pump Hose	6.5 lbs.
A002I-175	8" Whip Hose	1.3 lbs.	A002I-405	9' Curb Pump Hose	7.1 lbs.
A002I-177	9" Whip Hose	1.7 lbs.	A002I-410	10' Curb Pump Hose	7.7 lbs.
A002I-180	10" Whip Hose	2.1 lbs.	A002I-420	12' Curb Pump Hose	8.9 lbs.
A002I-185	12" Whip Hose	2.9 lbs.	A002I-445	17' Curb Pump Hose	12.0 lbs.
A002I-188	13.5" Whip Hose	3.5 lbs.	A002I-460	20' Curb Pump Hose	13.9 lbs.
			A002I-927	6' Curb Pump Hose	5.3 lbs.



# CROSS REFERENCE

# Competitor Cross Reference

Emco	Description	OPW	Franklin	Universal	Morrison Bros.
<b>Caps and Adapters</b>					
A0030-024	FILL ADAPTER BRASS 4X4	633T-8076	778-301-02	724-4040	305L-0200A
A0030-024A	FILL ADAPTER ALUMINUM 4X4	633T-8075			
A0030-124S	FILL SWIVEL ADAPTER BRASS 4X4	61SALP-1020EVR	SWF-100-B		305SA-0200AA
A0076-002	VAPOR ADAPTER AL 4"CAMX3" RISER	1611AV-1605	300-300-01	0611V-3030	323-0100-AA
A0076-005	VAPOR ADAPTER AL 4"CAMX4" RISER	1611AV-1620	300-210-01	0611V-3040	323-0200-AA
A0076-124S	VAPOR SWIVEL ADAPTER BRASS 4X4	61VSA-1020EVR	SWV-101-B		323SA-0200-AA
A0089-001	TIGHT FILL ADAPTER COAX A0088	633TCP-3803		724CA-4040	605AL-0100-AA
A0096-001	TIGHT FILL ADAPTER COAX A0070	633TC-8090	306-300-01	724CA-4040	605AL-0100-AA
A0097-004LP	TIGHT FILL CAP 4" LOW PROFILE	634LPC-0400		731-40	
A0097-005	TIGHT FILL CAP 4"	634TT-7085EVR	777-201-01	733-40	305C-0100-ACEVR
A0097-010	TIGHT FILL CAP 4" FOR TANK PROBE	62M-0500		418TM-40	
A0099-002	VAPOR CAP 4"	1711T-7085 EVR	304-200-01	0614VC-30	323C-0100-ACEVR
A0099-004LP	VAPOR CAP 4" LOW PROFILE	1711LPC-0300		0613VC-30	

## Emergency Shear Valves

A0060-002	SHEAR VALVE 1 POP MALE	10BM-5825	662-410-03	521RMS-15	636M 0000 AVU
A0060-003	SHEAR VALVE 1 POP FEMALE	10BF-5725	662-410-02	521RFS-15	636F 0000 AVU
A0060-022	SHEAR VALVE 2 POP MALE	10BHMP-5830	662-440-03	521DP-RM-15	
A0060-023	SHEAR VALVE 2 POP FEMALE	10BFP-5726	662-440-02	521DP-RF-15	
A0063EVR-024	VAPOR SHEAR VALVE 2 POP FEMALE	60VSP-1001			
492938	TOP KIT A0060 1 POP MALE	10RMT-5850	662-118-03		
492939	TOP KIT A0060 1 POP FEMALE	10RFT-5750	662-118-02		
493887	TOP KIT A0060 2 POP MALE	10RMTP-5851	662-240-01		
493888	TOP KIT A0060 2 POP FEMALE	10FTP-5701	662-242-01		

## Overfill Prevention Valves

AI100-010	GUARDIAN VALVE ONLY 4"	61SO-4BYT	708-494-04	39-04	
AI100-055S	DUAL POINT SCREW TOGETHER 4"X13'	71SO-400C	708-491-01		
AI100-056S	DUAL POINT SCREW TOGETHER 4"X15'	71SO-410C	708-491-02		
AI100-057S	DUAL POINT SCREW TOGETHER 4"X18'		708-492-01		
AI100-058S	DUAL POINT SCREW TOGETHER 4"X21'		708-492-02		
AI100-065S	COAX SCREW TOGETHER 4"X13'	61SOC-4001	708-493-03		
AI100-066S	COAX SCREW TOGETHER 4"X15'		708-493-04		
AI100-067S	COAX SCREW TOGETHER 4"X18'	61SOC-4011			
AI100-085S	COAX SCREW TGTHR POPPET 4"X13'	61SOP-4002			
AI100-087S	COAX SCREW TGTHR POPPET 4"X18'	61SOP-4012			
AI100EVR-055	DP SCREW TOGETHER EVR 4"X13'	71SO-400C	708-491-11		
AI100EVR-056	DP SCREW TOGETHER EVR 4"X15'	71SO-410C	708-491-12		
AI100EVR-057	DP SCREW TOGETHER EVR 4"X18'		708-492-11		
AI100EVR-057E	DP SCREW TOGETHER EVR 4"X18' E85	61SOM-412C-EVR	708-492-31		
AI100EVR-058	DP SCREW TOGETHER EVR 4"X21'	71SO-420C	708-492-12		

## Drop Tubes

A0020-004	DROP TUBE ALUMINUM 4" X 12'	61T-7268		723-4012-2	419-0400-1T
A0020-005	DROP TUBE ALUMINUM 4" X 15'	61T-7368		723-4015	419-0500-1T
A0020-007	DROP TUBE ALUMINUM 4" X 17'	61T-7468			
A0020EVR-004	DROP TUBE ALUMINUM 4" X 12' EVR	61T-7268	782-204-12-2		
A0020EVR-005	DROP TUBE ALUMINUM 4" X 15' EVR	61T-7368	782-204-15-2		
A0020EVR-007	DROP TUBE ALUMINUM 4" X 15' EVR	61T-7468			
A0088-101	DROP TUBE COAXIAL VR 4" X 12'	61TCP-3800			

# Competitor Cross Reference

Emco	Description	OPW	Franklin	Universal	Morrison Bros.
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## Ball Floats & Extractor Fittings

A0075-001	BALL FLOAT 2X5" 1/8 BH	53VL-0050		37-206018	317-0600AV
A0075-006	BALL FLOAT 2X6.87" 1/16 BH	53VL-0060		37-206016	
A0075-010	BALL FLOAT 2X18" 1/8 BH				317-1700-AV
A0075-013	BALL FLOAT 2X13.75" 1/8 BH			37-201218	
A0075-015	BALL FLOAT 2X15.75" 1/8 BH			37-201618	317-1500AV
A0075-017	BALL FLOAT 2X17.75" 1/8 BH				317-1700AV
A0078-009A	BALL FLOAT/CAGE 2X9" 1/16 BH	53VML-2090			
A0078-015	BALL FLOAT/CAGE 2X15.75" 1/16 BH	53VML-0160	308-020-116		
A0078-018A	BALL FLOAT/CAGE 2X18" 1/16 BH	53VML-0180			
A0078-021A	BALL FLOAT/CAGE 2X21" 1/16 BH	53VML-0210			
A0078-308	BALL FLOAT/CAGE 3X8" 1/16 BH	53VML-3080	308-300-08		
A0078-312	BALL FLOAT/CAGE 3X12" 1/16 BH	53VML-3120	308-300-12		
A0078-318	BALL FLOAT/CAGE 3X18" 1/16 BH	53VML-3180	308-300-18		
A0079-019	EXTRACTOR FTG & 2" CAGE 4X4X3X2			V421-3020	562-0100-AE
A0079-020	EXTRACTOR FTG & 2" CAGE 4X4X2X2			V421-2020	560-0100-AE
A0079-025	EXTRACTOR FTG & 2" CAGE 4X4X3X3			V421-3030	
A0079-050	EXTRACTOR FTG 4X4X2X2	233-4422		V420-2020	560-0101-MBE
A0079-051	EXTRACTOR FTG 4X4X3X2	233-4432	330-400-11	V420-3020	562-0101-MBE
A0079-052	EXTRACTOR FTG 4X4X3X3	233-4433	331-400-01	V420-3030	
A0079-119	EXTRACTOR FTG & 2" CAGE 4X4X3			V421-0030	563-0100AE
A0079-120	EXTRACTOR FTG & 2" CAGE 4X4X2			V421-0020	561-0100AE
A0079-150	EXTRACTOR FTG 4X4X2	233-4420		V420-0020	561-0101MBE
A0079-152	EXTRACTOR FTG 4X4X3	233-4430		V420-0030	563-0101MBE
A0179-002	EXTRACTOR CAGE 2"	H11930		V423	
A0279-001	EXTRACTOR CAGE TEST PLUG	233VMP-6047	391-201-01	V425	
A0560-003	WRENCH FOR BAR-STYLE CAGE 1 1/2"	89-0044	321-100-01	410VV	
A0585-003	EXTRACTOR PIPE CAP BAR STYLE	116-7085		412-40	578-0100AC

## Valves

A0066-020B	CHECK VALVE PRES RELIEF 15-35PSI BRASS		622-200-01	212BPR-20-1535	
A0750-200	BALL VALVE	21BV-0200		213FP-20	

## Suction System Components

A0732-001	UNION CHECK VALVE 1.5"		650-108-02	200A-15	331-0100AV
A0732-002	UNION CHECK VALVE & SCREEN 1.5"		650-104-02	200AS-15	331S-0100AV

# Competitor Cross Reference

Emco	Description	OPW	Franklin	Universal	Fairfield
<b>Spill Containment</b>					
A1004-010	SPILL CONT 5GAL SLIM PP DRAIN	IC-2100D	705-479-01-CI	71CD-1212	
A1004-316A	SW 16" CENTER 5 GAL PP DRAIN	IC-3101D	705545001CI		
A1004-316S	DW 16" CENTER 5 GAL PP DRAIN	IC-3112D	705555101CI	71CD-0512-DW	SCM-5DWT
A1004-316S-CM	DW 16" CENTER 5 GAL SENSOR DRAIN		705555201CI		
A1004-317A	SW 16" CENTER 5 GAL NO DRAIN	IC-3101P	705545002CI		
A1004-317S	DW 16" CENTER 5 GAL NO DRAIN	IC-3112P	705555102CI		
A1004-317S-CM	DW 16" CENTER 5 GAL SENSOR NO DRN		705555202CI		
A1004EVR-210A	SINGLE WALL 5 GAL PP DRAIN EVR	IC-3101D	705545001CI		
A1004EVR-210S	DOUBLE WALL 5 GAL PP DRAIN EVR	IC-3112D	705555101CI		
A1004EVR-211A	SINGLE WALL 5 GAL PP NO DRAIN EVR	IC-3101P	705545002CI		
A1004EVR-211S	DOUBLE WALL 5 GAL PP NO DRAIN EVR	IC-3112P	705555102CI		
A1004EVR-316A	SW 16" CENTER 5 GAL PP DRAIN EVR	IC-3101D	705545001CI		
A1004EVR-316S	DW 16" CENTER 5 GAL PP DRAIN EVR	IC-3112D	705555101CI		
A1004EVR-317A	SW 16" CENTER 5 GAL PP NO DRAIN EVR	IC-3101P	705545002CI		
A1004EVR-317S	DW 16" CENTER 5 GAL PP NO DRAIN EVR	IC-3112P	705555102CI		
A1004EVR-215A	SINGLE WALL 15 GAL PP DRAIN EVR	6511A-0025SC151			
A1004EVR-215S	DOUBLE WALL 15 GAL PP DRAIN EVR	IC-31512D			
A0031-175	RISER EXTENSION 4 X 4 X 1.75			1002S-40	
A0031-250	RISER EXTENSION 4 X 4 X 2.5			1002L-40	57IS-0100AE

<b>Composite Manholes</b>		OPW	Franklin	Flexing	Morrison Bros.
A0716-039	COMPOSITE LAY-IN 39X10	39CD-PL10	781-433-13	14U-3810	318L 3800AM
A0716-039B	COMPOSITE BOLT-DOWN 39X10	39CD-WT10	781-433-12	14URT-3810	418L 3800AM
A0716-039C	COMPOSITE CAM-LOCK 39X10	39CD-RL10		14URT-3810CL	418LC3800AM
A0716-039CL	COMPOSITE CAM-LOCK LID ONLY 39"	E00714			
A0716-039LID	COMPOSITE LAY-IN LID ONLY 39"	E00618	781-448-06	14U-3810C	
A0716-042	COMPOSITE LAY-IN 42X10			14U-4210	
A0716-042LID	COMPOSITE LAY-IN LID ONLY 42"			14U-4210C	
A0716-044	COMPOSITE LAY-IN 44X10	44CD-PL10	781-443-13		318L 4400AM
A0716-044B	COMPOSITE BOLT-DOWN 44X10	44CD-WT10	781-443-12		418L 4400AM
A0716-044C	COMPOSITE CAM-LOCK 44X10	44CD-RL10			418LC4400AM
A0716-044CL	COMPOSITE CAM-LOCK LID ONLY 44"	E00712			
A0716-044LID	COMPOSITE LAY-IN LID ONLY 44"	E00626	781-445-06		

<b>Standard Manholes</b>		OPW	Franklin	Pemco	Fairfield
A0717-018	MANHOLE CI LID 18"X12" STEEL	104A-1800	781-418-12-STL	10618x10	180-12
A0717-018A	MANHOLE CI LID 18"X18" STEEL		781-418-18-STL		180-18
A0717-024	MANHOLE 3/8" STEEL LID 24"X10" STEEL	6110-2410	SR2409HD	10624X10	240 HD
A0717-030	MANHOLE 3/8" STEEL LID 30"X10" STEEL	6110-3010	SR3009HD	10630X10	300 HD-B
A0717-030B	MH 3/8" STEEL LID 30"X10" STEEL BD		SR3009WT	10730X10	300 WT
A0717-036	MANHOLE 1/2" STEEL LID 36"X10" STEEL		SR3609HD		
A0717-036B	MH 1/2" STEEL LID 36"X10" STEEL BD	6110-37WT	SR3609WT		
A0717-038	MANHOLE 1/2" STEEL LID 38"X10" STEEL		SR3809HD		
A0717-038B	MH 1/2" STEEL LID 38"X10" STEEL BD	6110-37WT	SR3809WT		
A0717-038C	MANHOLE 3/8" STEEL LID 38"X10" STEEL	6110-3710		10638X10	380HD
A0717-042A	MANHOLE 1/2" STEEL LID 42"X10" STEEL	6110-4200	SR4209HD		420HD
A0717-042D	MANHOLE 3/8" STEEL LID 42"X10" STEEL			10642X10	
A0717-048	MANHOLE 1/2" STEEL LID 48"X10" STEEL		SR4809HD	10748X10	480HD
A0717-108	MANHOLE CI LID 8"X12" STEEL			100C8X12	80-12
A0717-122	MANHOLE CI LID 12"X12" STEEL	104A-1200	781-212-12-CI	100C12X12	120-12
A0717-122BW	MANHOLE STL LID 12"X12" STEEL BD			10212X12	120WT
A0717-122FG	MANHOLE CI LID 12"X12" STEEL FINGER	104FG-1200			

# Competitor Cross Reference

Emco	Description	OPW	Franklin	Pemco	Fairfield
<b>Standard Manholes, continued</b>					
A0717-124	MANHOLE STEEL LID 24"X10" STEEL BD	6110-24WT		I0724X10	240WT
A0717-128	MANHOLE CI LID 12"X8" STEEL			I00C12X8	120 8
A0717-136	MANHOLE 3/8" STEEL LID 36"X10" STEEL	6110-3710		I0636x10	360 HD
A0717-136B	MH 3/8" STEEL LID 36"X10" STEEL BD			I0736X10	360 WT
A0717-148	MANHOLE 3/8" STEEL LID 48"X10" STEEL		SR4809WT	I0648X10	
A0717-188	MANHOLE CI LID 8"X9" STEEL		78120808	I00C8X75	80 8

## Square Manholes and Vaults

A0717-718	MANHOLE STEEL LID SQUARE 18"X9"				18S
A0717-724	MANHOLE STEEL LID SQUARE 24"X9"		SSQ2409	I0524X24	24S
A0717-724A	MANHOLE STEEL LID SQUARE 24"X24"			I0524X24X24	
A0717-724ABW	MANHOLE STEEL LID SQ 24"X24" BD WR			I0524X24WT	
A0717-724V	MANHOLE LOCKING VAULT 24"X24"			I04242424	
A0717-724VW	MANHOLE LOCKING VAULT 24"X24" WR			I04242424WT	

## Monitoring Well Manholes

		Universal	Morrison Bros.	Pemco	Fairfield
A0720-001	MONITOR WELL CAP, COLLAR & LOCK	1300-40	305XA-0100 AC		
A0721-018	MONITOR WELL 18"X12" STEEL		418XAP-1200 AM	I06MW18X12	I08-TMW-12
A0721-101	MONITOR WELL 12"X12" STEEL	65-1212-WC	418XAP-0400 AM	I0312X12	I20-MW-12
A0721-106	MONITOR WELL 6"X8" STEEL			I035X6	
A0721-106A	MONITOR WELL 6"X10" STEEL			I035X12	
A0721-108	MONITOR WELL 8"X12" STEEL	65-8012-WC	418XAP-0900 AM	I038X12	80-MW-12
A0721-118	MONITOR WELL 18"X18" STEEL		418XAP-1300 AM		I80-TMW-18
A0721-119	MONITOR WELL 12"X19" STEEL			I0312X18	
A0721-188	MONITOR WELL 8"X9" STEEL	65-8075-WC	418XAP-0850 AM	I038X75	80-MW-8
A0721-188L	MONITOR WELL 8"X9" STEEL LAY-IN	60MW-8075		I00MW8X75	
A0721-208	MONITOR WELL 8"X12" HD STEEL		418XAW-0700 AM		

## Vents

		OPW	Franklin	Universal	Morrison Bros.
A0084-038	VENT P-V 3" PRES 8" VAC 2" F EPA	623V-2203			749CRB0600AV
A0084-103	VENT P-V 3" PRES 8" VAC 2" SLIP ON EPA				749CRBS600AV
A0084-204	VENT P-V 8 OZ. PRES .5 VAC 2"	523V-1100	802-303-01	46-2080	749-0100AV
A0084-215	VENT P-V 13.86" PRES 3" VAC 2" SLIP ON	523V-2253			
A4103-002	VENT UPWARD "V" 1.5" & 2"	23-0033, -0044		45-15 / 45-20	

## Vapor Recovery Balanced Nozzles

		OPW	Husky	VST
A4005-NUL	N-NOZZLE-BAL-UL	I1VF-XX27	005210-04	
A4005-RUL	R-NOZZLE-BAL-UL	I1VF-XX87	005450-04	
A4015-NUL	N-NOZZLE-BAL-UL		005010-04	
A4015-RUL	R-NOZZLE-BAL-UL		005410-04	
A4005EVR-052	N-NOZZLE-BAL-UL EVR			VST-EVR-NB

## Truck Nozzle

A6000-N	N-STD-NOZZLE-TRUCK	7H	VIII-173310	
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## Farm Utility Nozzle

A0845-011	FARM NOZZLE 3/4" X 15/16"		337003-04	
A0845-013	FARM NOZZLE 1" X 15/16"		337004-04	



# Competitor Cross Reference

Emco	Description	OPW	Franklin	Husky	VST
<b>Safebreaks</b>					
A2119-002	SAFEBREAK 3/4" SHEAR PIN	66V-0300		2273	
A2219-002	SAFEBREAK 3/4" RECONNECTABLE	66REC-1000	697-137-01	3360	
A3019-001	SAFEBREAK 1" SHEAR PIN	66V-1300			
A3219-001	SAFEBREAK 1" RECONNECTABLE	66RB-2000	797-225-01	2276	
A4119EVR-020	SAFEBREAK COAXIAL SHEAR PIN EVR				VSTA-EVR-SBK

## Swivels

A0360-075	SWIVEL 3/4"M X 3/4"F NPT	205-7575	3DC3/4	0350	
A0360-100	SWIVEL 1"M X 1"F NPT	205-1010	3DC1X1	0087	

## Splitters

A4041-001	COAX SPLITTER ISLAND MOUNT	38CS-0380	3030101		
A4043-001	COAX SPLITTER HIGH HOSE				

## Hose Assemblies

		IRPCO	Goodyear	Thermoid
A0021-145	HOSE WHIP 3/4" X 8" STANDARD	124021	532-327-124-20969	
A0021-149	HOSE WHIP 3/4" X 9" STANDARD	124041		
A0021-155	HOSE WHIP 3/4" X 12" STANDARD		532-327-124-21269	
A0021-180	HOSE WHIP 1" X 10" STANDARD	123041		
A0021-185	HOSE WHIP 1" X 12" STANDARD	123061		
A0021-305	HOSE CURB PUMP 3/4" X 9' STANDARD		532-327-124	1481-211
A0021-310	HOSE CURB PUMP 3/4" X 10' STANDARD	124341	532-327-124	1481-101
A0021-320	HOSE CURB PUMP 3/4" X 12' STANDARD	124421	532-327-124	1481-121
A0021-330	HOSE CURB PUMP 3/4" X 14' STANDARD	124481	532-327-124	1481-141
A0021-335	HOSE CURB PUMP 3/4" X 15' STANDARD	124501		1481-151
A0021-400	HOSE CURB PUMP 1" X 8' STANDARD	123201	532-327-13200869	
A0021-410	HOSE CURB PUMP 1" X 10' STANDARD	123241	532-327-13221069	1641-101
A0021-420	HOSE CURB PUMP 1" X 12' STANDARD	123301	532-327-132	1641-121
A0021-445	HOSE CURB PUMP 1" X 17' STANDARD	123461	537-327-13201769	1641-171
A0021-460	HOSE CURB PUMP 1" X 20' STANDARD	123521	537-327-13202069	1641-201



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493391	Riser Collar Kit A0020	16	494551	Drain Kit A1004-210,-316	49
493398	Spout Kit UL A4015	70	494554	Lid & Seal Kit A1004-215	48,62
493400	Boot & Face Kit A4015	70	494602EVR	Primary Rplcmnt Kit A1004EVR-215A	50,62
493436	Remote Fill Cage Kit	14	494635EVR	Spout Plug A4005EVR Service Tool	68
493508K	Pull/Push Drain Assembly A1004	49	494641	Dipstick Assembly A1004-210,-316	49
493584	Boot Only Kit A4015	70	494652EVR	Bellows Band ClampCrimpTool A4005EVR	68
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# Warranty Policy

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Emco Wheaton Retail Corporation service station products are warranted to be free from defects in material and workmanship under normal use and service. Non-EVR Vapor recovery nozzles are warranted for a period of twelve (12) months from date of shipment from Emco Wheaton Retail Corporation or from installation date as specified by the returned warranty card, not to exceed fourteen (14) months from the date of shipment from Emco Wheaton Retail Corporation. This warranty excludes the spout and/or front end components of balance vapor recovery nozzles unless damage is obvious when the nozzle is removed from the shipping carton and the defective nozzle is returned to Emco Wheaton Retail Corporation prior to use and within two (2) months from the date of invoice. EVR vapor recovery hanging hardware components are subject to other specific warranty conditions as stated in a separate warranty policy. Other service station products are warranted for a period of twelve (12) months from the date of manufacture.

Emco Wheaton Retail Corporation shall, at its option, repair or replace that part which proves to be defective. Repaired or replacement nozzles are warranted for the balance of the original warranty period. This warranty is void unless the original purchaser returns the claimed defective item to Emco Wheaton Retail Corporation for inspection to determine whether the claimed defect is covered by this warranty.

The exclusive and sole remedy under this warranty is repair or replacement of the defective part. Emco is not responsible for claims for damage caused by improper installation or maintenance; corrosive fluids; misuse of the product or use the product for other than its intended purpose; or accident, acts of God, or natural phenomena. Emco will not pay for labor or related expenses, nor shall Emco be liable for any incidental, consequential or exemplary damages. This warranty is void if the Emco Wheaton Retail Corporation product has been previously repaired with parts not approved by Emco Wheaton Retail Corporation, or if a nozzle bears the mark or imprint of a company other than Emco Wheaton Retail Corporation, indicating the nozzle has been rebuilt or repaired by a company other than Emco Wheaton Retail Corporation.

EMCO WHEATON RETAIL CORPORATION MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, (WHETHER WRITTEN OR ORAL), INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

In the event a nozzle is returned to Emco Wheaton Retail Corporation within the warranty period described above, and when tested is found to be functional and without defect, Emco Wheaton Retail Corporation reserves the right to return the nozzle to the customer or apply a Core Credit (see Nozzle Core Return Program), at Emco Wheaton Retail Corporation's discretion.

In the event of failure within the warranty period, call the Customer Service Department at (800) 234-4394. Describe the problem and provide the product date stamp information to the customer service representative. In the case of a nozzle, provide the serial number. The customer service representative will provide a product complaint number, if applicable. Ship the defective equipment PREPAID, to Emco Wheaton Retail Corporation for repair or replacement.

Emco Wheaton Retail Corporation products should be used in compliance with applicable federal, state and local laws and regulations. Product selection should be based on physical specifications and limitations and compatibility with the environment and material to be handled. All illustrations and specifications are based on the latest product information available at the time of publication. Emco Wheaton Retail Corporation reserves the right to make changes at any time in prices, materials, specifications and models and to discontinue models without notice or obligation.



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