

# PRODUCT CATALOGUE

FRANKLIN FUELING SYSTEMS

PIPING & CONTAINMENT SYSTEMS  
SERVICE STATION HARDWARE





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40x32 mm 1" Secondary Containment  
50 mm 1½" Primary  
63x50 mm 1½" Secondary Containment  
63 mm 2" Primary Pipe  
75x63 mm 2" Secondary Containment  
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# About Us



## Welcome to Franklin Fueling Systems, the world's leading provider of complete fuelling systems.

We are comprised of the industry's most extensive lines of fuelling product solutions. With us, you can get the most comprehensive product offering from the industry's leader in total system solutions.

Franklin Fueling Systems provides unparalleled simplicity in placing one order, having one point of contact, relying on one service team and receiving one consolidated shipment.

A wide variety of products, a world class customer service experience and extensive technical background create a complete system solution where our services, features and products set us apart as the industry leader.

Whether you want to automate your station or network, build or re-build your station according to the latest environmental laws, update a station to fulfill new regulations or intend to realize a more cost efficient site construction and operation, you can rely on Franklin Fueling Systems. Our submersible pumping systems, service station hardware, fuel management systems and complete pipework solutions can increase your efficiency and improve your business.

In addition to the industry's most comprehensive product offering, Franklin Fueling Systems also provides:

- One order for all equipment
- Factory tested leak-tight equipment
- Reduced site downtimes
- 100% Bio-fuel compatible options
- Effective control of your fuel stocks
- Ensured environmental protection
- Solutions to keep fuel in and water out
- Lowest total cost of ownership
- Time and money savings

Franklin Fueling Systems can deliver a complete package of pipework, manhole chambers, under dispenser containment, submersible pumps and intelligent fuel stock & environmental monitoring systems all designed around your exact needs and delivered in one shipment, ready for installation.

# Total System Solution







## Fuel Management Systems

Franklin Fueling Systems offers a complete line of inventory monitoring systems, providing users the capability to take complete control of fuel management. The complete range is ideal for monitoring inventory, environmental control and fuel management. Next generation technology from INCON allows users to monitor tanks from any web browser.

## Submersible Pumping Systems

Franklin Fueling Systems submersible pumping systems provide faster fuel dispensing, improved efficiency and unmatched reliability. The FE Petro brand industry-leading product design offers the highest performing submersible pumping systems available.

## Piping and Containment

Franklin Fueling Systems offers the most comprehensive line of piping and containment products in the industry. The UPP brand features innovative technology and outstanding quality. With 30 years' worth of installations and a 100% leak-free performance record, Franklin Fueling Systems is the leading provider of fuel pipe.

## Dispensing Systems

Franklin Fueling Systems manufactures and markets a complete line of Stage II vapour recovery systems globally under the Healy product brand. Healy vapour recovery products suit any application and customise to any site, ensuring proper connection.

## Service Station Hardware

Franklin Fueling Systems fuel station hardware products comprise a comprehensive and environmentally friendly system, including a complete biofuel approved system for E85 and biodiesel sold under the brands EBW and Phil-Tite.

## Transport Systems

Franklin Fueling Systems road tanker systems products make it easy to connect to loading terminals and underground storage tanks with our broad line of adapters, elbows and valves. Sold under the brand EBW, these products cover both loading and off-loading applications. Our road tanker hardware products provide a wide range of connection options.

# Pipe & Containment

The industry's most complete line of underground and aboveground containment products including pipe, fittings, sumps and boots. Whether you require product or vent piping, fibreglass or polyethylene sumps, Franklin has the solution to fit any scenario.



## Highlights



### Diverse Sump Offering

Whether site conditions require fibreglass or polyethylene sumps, Franklin offers a wide assortment of both UPP and APT brand dispenser and tank sumps in a variety of options to fulfill any site application.



### Zero Leak Paths

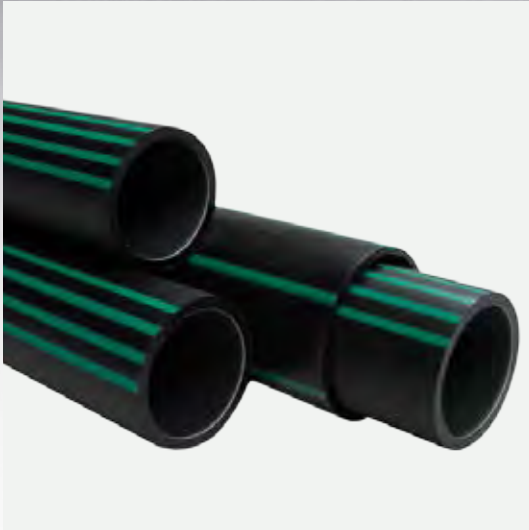
Patented UPP electrofusion welded entry boots weld directly to the walls of polyethylene sumps, providing watertight seals between the sump and the UPP pipework, conduit or ducting.



### Electrofusion Welding

At the heart of the UPP brand pipework is the highly efficient electrofusion welding process which connects pipe and fittings to all key system components to create a seamless direct burial pipework system.





# Electrofusion Pipework

## A True Liquid Tight Solution

Since being introduced as the world's first electrofusion pipework system for fuel applications over thirty years ago, UPP semi-rigid pipework has become known globally as the standard for liquid tight pipework systems. Synonymous with words like "safe", "efficient" and "simple" throughout petroleum equipment installer circles, UPP pipework utilises the advanced electrofusion welding process to effectively bond system components together into one, leak proof system.

### Highlights

#### Simple Installation

The UPP electrofusion welding process is safe and simple to complete in any climate and virtually any weather condition. An installer simply prepares the components, fits them together attaching welder leads to the fitting, and then presses a single button on the welding unit to initiate the process. The welder unit itself calculates the exact settings required to complete the weld, regardless of the pipework diameter or temperature, leaving no settings for the installer to input.

#### Electrofusion Welding

At the heart of the UPP pipework system is the highly efficient electrofusion welding process that connects pipe, fittings, seals and containment to create a seamless direct burial pipework system. The welding process uses the lightweight, portable UPP electrofusion welder unit to form the strongest of assemblies, which is easily and quickly carried out - even in confined spaces.

#### Hand-Held Welder

The UPP Electrofusion Welder is compatible with all UPP fittings and products and has been used on thousands of installation sites around the world. The rugged water and dust proof welder features a state-of-the-art graphical display that illustrates the progress of the electrofusion process and provides visual indication of a completed weld.

#### Safety Above All Else

With installations in over 150 countries to its credit, the UPP pipework system boasts a sterling safety record. Thousands of trouble-free existing installations around the world, some of which more than 30 years old, speak to the reliability of this non-conductive pipework system. The proven track record of performing effectively in some of the world's harshest conditions speaks for itself.

#### The Strength of EVOH

UPP pipe features an innovative clear inner lining made of natural EVOH resin to provide maximum pipe strength and superior vapour permeation and hydrocarbon barrier qualities. UPP pipe is the first to receive an exception Class T1 temperature rating with its EN14125 approval, a true testament to its strength.

#### Electrofusion Termination Fittings

The end of a piping run can be fitted with a wide variety of termination fittings to accommodate any application. UPP termination fittings feature an overmolded design which permanently bonds the metal threads of the fitting to an HDPE pipe segment. This allows the same electrofusion process to create a liquid tight bond between the pipework and metal termination fitting.

#### Electrofusion Entry Seals

As a vital component to the UPP pipework system, patented UPP electrofusion entry seals weld directly to the wall of any polyethylene sump creating a liquid tight seal between the pipework system and containment spaces. They are specifically designed to reduce the number of fittings and eliminate bolt holes, rubber seals, band clamps and any potential leak paths.





## Specifications

- UPP EN14125:2013 Standard Primary Pipe
- Material: PE100 with EVOH resin barrier
- Primary pressure rating (bar/psi): 10/145
- Primary colour: Black with two clusters of four green stripes, clear inner liner
- Temperature rating: Class T1 Rating (EN14125) -40 °C to 50 °C
- Primary vacuum rating (-bar/"Hg): -0.9/-26.6

### UPP EN14125:2013 Standard Fill/Vent Pipe

- Material: PE100 with EVOH resin barrier
- Primary pressure rating (bar/psi): 6/87
- Primary colour: Black with two clusters of four green stripes, clear inner liner
- Temperature rating: Class T1 Rating (EN14125) -40 °C to 50 °C

### UPP EN14125:2013 Standard Coaxial (Secondary) Pipe

- Material: PE100 with EVOH resin barrier
- Primary pressure rating (bar/psi): 10/145
- Primary colour: Black with two clusters of four green stripes, clear inner liner
- Secondary colour: Black with six green stripes
- Secondary pressure rating (bar/psi): 5/72
- Temperature rating: Class T1 Rating (EN14125) -40 °C to 50 °C
- Primary vacuum rating (-bar/"Hg): -0.9/-26.6
- Secondary vacuum rating (-bar/"Hg): -0.6/-17.8

### UPP EN14125:2013 Standard Secondary Sleeve

- Material: PE100
- Secondary pressure rating (bar/psi): 5/72
- Primary colour: Black with six green stripes
- Temperature rating: Class T1 Rating (EN14125) -40 °C to 50 °C
- Primary vacuum rating (-bar/"Hg): -0.6/-17.8

## Order Information

### UPP EN14125:2013 Standard Primary Pipe

Model	Ø (mm)	Unit	Pack (m)	Weight (kg/m)	Weight (lbs/ft)	SDR	Primary ID (mm)	Bend Radius (m)
001-032-100-E	32	100 m Coil	100	0.29	0.19	11	26	
001-050-006-E	50	5.8 m Stick	696	0.66	0.45	11	40.8	0.75
001-050-050-E	50	50 m Coil	50	0.66	0.45	11	40.8	0.75
001-050-100-E	50	100 m Coil	100	0.66	0.45	11	40.8	0.75
001-063-006-E	63	5.8 m Stick	408	1.05	0.7	13.6	53.6	0.9
001-063-008-E	63	8 m Stick	544	1.05	0.7	13.6	53.6	0.9
001-063-100-E	63	100 m Coil	100	1.05	0.7	13.6	53.6	0.9
001-090-006-E	90	5.8 m Stick	204	1.81	1.22	13.6	76.6	2.25
001-090-050-E	90	50 m Coil	50	1.81	1.22	13.6	76.6	2.25
001-110-006-E	110	5.8 m Stick	138	3.15	2.12	13.6	93.8	2.75

### UPP EN14125:2013 Standard Fill/Vent Pipe

Model	Ø (mm)	Unit	Pack (m)	Weight (kg/m)	Weight (lbs/ft)	SDR	Primary ID (mm)	Bend Radius (m)
001-110-006-FILL-E	110	5.8m Stick	138	2.3	1.55	17	96.8	2.75



## Order Information - continued

### UPP EN14125:2013 Standard Coaxial (Secondary) Pipe

Model	Ø (mm)	Unit	Pack (m)	Weight (kg/m)	Weight (lbs/ft)	SDR	Primary ID (mm)	Bend Radius (m)
001-040-032-050-E	40/32	50 m Coil	50	0.64	0.43	11 / 17	26	0.6
001-040-032-100-E	40/32	100 m Coil	100	0.64	0.43	11 / 17	26	0.6
001-063-050-030-E	63/50	30 m Coil	30	1.17	0.78	11 / 26	40.8	0.9
001-063-050-100-E	63/50	100 m Coil	100	1.17	0.78	11 / 26	40.8	0.9
001-075-063-010-E	75/63	10 m Stick	10	1.72	1.15	13.6 / 26	53.6	1.12
001-075-063-030-E	75/63	30 m Coil	30	1.72	1.15	13.6 / 26	53.6	1.12
001-075-063-050-E	75/63	50 m Coil	50	1.72	1.15	13.6 / 26	53.6	1.12

### UPP EN14125:2013 Standard Secondary Sleeve

Model	Ø (mm)	Unit	Pack (m)	Weight (kg/m)	Weight (lbs/ft)	SDR	Bend Radius (m)
000-063-006-SC-E	63	5.8 m Stick	544	0.5	0.34	26	0.9
000-075-006-SC-E	75	5.8 m Stick	276	0.67	0.45	26	1.12
000-075-008-SC-E	75	8 m Stick	368	0.67	0.45	26	1.12
000-110-006-SC-E	110	5.8 m Stick	138	1.46	0.98	26	2.75
000-125-006-SC-E*	125	5.8 m Stick	90	1.89	1.27	26	3.1



# Gemini Secondary Containment

## A revolution in fittings design

No other secondary containment system has ever offered the ability to completely install the primary pipework system and execute integrity testing before closing the secondary system. With Gemini three secondary fittings, which are specifically designed to enclose standard one-piece primary fittings, allow you to reduce the number of necessary parts, welds, time and overall cost. Gemini allows Franklin Fueling Systems to provide up to 50% reduction in primary and secondary fittings and up to 50% reduction in fusion weld operations.

### Highlights

#### Revolutionary Secondary Containment

Simple installation. Complete confidence. The most efficient secondary containment solution ever. Gemini re-writes the rule book on secondary containment systems by splitting the secondary fitting into two pieces. This revolutionary feature allows you to slide the secondary fitting away so that the primary joint can be fully welded, pressure tested and inspected before welding the secondary fittings for the utmost in system security.

#### Less Fittings, More Savings

Before Gemini, installing secondary containment was complicated. It required many different types of fittings to be welded together in sequence, piece-by-piece, over primary fittings at each bend. With Gemini three secondary fittings, which are specifically designed to enclose standard one-piece primary fittings, allow you to drastically reduce the number of necessary parts, welds, time and overall cost.

#### Better by Design

The design of each Gemini fitting in itself allows for the fastest, most efficient installation of secondary containment by reducing the number of welds needed to complete both primary and secondary pipework systems. Additionally, the integrated tabs allow the fitting to constrain itself in place for complete ease of installation without the need for specific clamps.

#### Weld and Test

No other secondary containment system has ever offered the ability to completely install the primary pipework system and execute integrity testing before closing the secondary system. Discovering a breach after the complete system has been welded can mean having to deconstruct the system to identify the problem, significantly increasing installation time and cost.

#### Independent Primary

Gemini secondary fittings are completely independent of primary fittings giving you a full 360° interstitial space between the two systems. As a result, a new level of integrity testing is achieved giving you complete peace of mind that both the primary and secondary systems are performing at the highest level.

#### Cutting Pipe Cost

With Gemini, you finally have a secondary fitting specifically designed for the most efficient usage of pipe. No longer is the secondary pipe diameter determined by the size of the primary fittings. Gemini was designed to enclose standard one-piece primary fittings and then reduce down over the primary pipe cutting both pipe costs and installation time dramatically.

#### A Single Weld Lead

The same welding leads an installer uses to weld the primary fittings can be used to weld the Gemini secondary fittings giving unparalleled installation efficiency.

#### Extreme Confidence

The Gemini secondary containment system is simplicity itself. Design engineers, mechanical engineers and manufacturing engineers collaborated to ensure that a final design could be developed quickly without compromise. When you install a pipework system underground, you need to be certain that it will perform flawlessly. Secondary containment is crucial to ensuring safety and performance. With Gemini's integrity testing capabilities, you get a level of confidence which installers and end users have yet to experience until now.



## Specifications and Order Information

### Gemini™ Secondary Sliding 45° Elbow / Sliding In-Line

- Material: PE100
- Temperature rating: -40 °C to 50 °C
- Secondary Pressure rating (Psi/bar): 72 / 5
- Welding current (Amps): 4

Model	Description	Primary Fitting (45°)	Primary Fitting (In-line)	Primary Pipe Ø (mm)	Secondary Pipe Ø (mm)	Weld Pin Size
G4-040-032	Secondary sliding 45° elbow for 40/32	04-032-EIF	02.32	32	40	4
G4-063-050	Secondary sliding 45° elbow for 63/50	04-050-EIF	02.50	50	63	4
G4-075-063	Secondary sliding 45° elbow for 75/63	04-063-EIF	02.63	63	75	4
G4-110-090	Secondary sliding 45° elbow for 110/90	04-090-EIF	02.90	90	110	4
G4-125-110	Secondary sliding 45° elbow for 125/110	04-110-EIF	02.110	110	125	4

### Gemini™ Secondary Sliding 90° Elbow

- Material: PE100
- Temperature rating: -40 °C to 50 °C
- Secondary Pressure rating (Psi/bar): 72 / 5
- Welding current (Amps): 4

Model	Description	Primary Fitting (90°)	Primary Pipe Ø (mm)	Secondary Pipe Ø (mm)	Weld Pin Size
G3-040-032	Secondary sliding 90° elbow for 40/32	03-032-EIF	32	40	4
G3-063-050	Secondary sliding 90° elbow for 63/50	03-050-EIF	50	63	4
G3-075-063	Secondary sliding 90° elbow for 75/63	03-063-EIF	63	75	4
G3-110-090	Secondary sliding 90° elbow for 110/90	03-090-EIF	90	110	4
G3-125-110	Secondary sliding 90° elbow for 125/110	03-110-EIF	110	125	4

### Gemini™ Secondary Tee

- Material: PE100
- Temperature rating: -40 °C to 50 °C
- Secondary Pressure rating (Psi/bar): 72 / 5 (G8-110-090: 58 / 4)
- Welding current (Amps): 4

Model	Description	Primary Fitting (Tee, In-Line)	Primary Pipe Ø (mm)	Secondary Pipe Ø (mm)	Weld Pin Size
G8-040-032	Secondary tee for 40/32	08-032-EIF, 02.32	32	40	4
G8-063-050	Secondary tee for 63/50	08-050-EIF, 02.50	50	63	4
G8-075-063	Secondary tee for 75/63	08-063-EIF, 02.63	63	75	4
G8-110-090	Secondary tee for 110/90	08-090-EIF, 02.90	90	110	4

### Approvals

- EN14125:2013 approved.





# Double Wall Termination Fittings

UPP™ brand double wall termination fittings make terminating double wall pipework simple by combining all pipework and fitting components into a single piece. Scraping and welding operations are drastically reduced making installation faster and easier.

## Highlights

### A Single Fitting

The Double Wall Termination Fitting comes complete as a single piece combining both the double wall pipe and the termination fitting.

- Single fitting replaces several individual parts, eliminating cleaning, scraping and welding.
- No assembly required, single-piece design.
- Install directly in-line with the secondary contained pipework.

### Faster Installation

Each fitting is specifically designed for the fastest, most efficient installation of double wall pipework by reducing the amount of necessary cleans, scrapes, welds, and parts.

- The single-piece construction of double wall termination fittings allow for minimal welds, cleaning and scraping operations during installation.
- The legacy solution for a 90 x 110 mm installation would require 2 welds, 5 cleans, 2 scrapes and comes as 2 parts.
- The new double wall termination fitting requires 0 welds, 0 cleans, 0 scrapes and comes as a single part.

### Ideal for Remote Fill

A remote fill point is exposed to constant wear and tear caused by fuel deliveries. Protect this vital point in the system by providing double wall protection all the way to grade level.

- Provides double wall containment all the way to grade level.
- Eliminates welded connections buried underneath or inside of concrete.
- Provides an integrated test port accessible at grade level for easy compliance testing.

### Robust Design

The simple, yet rugged one-piece design withstands the harsh environment of a petrol station forecourt. The press fit construction utilises barbed connections to combine primary and secondary pipe into a solid, single-piece assembly.

### Integrated Test Port

The ability to test the integrity of a secondary contained system from both the remote fill point and tank chamber ensures complete integrity throughout the system.

- Fast integrity testing accessible at grade level.
- Ensure full 360 degree interstitial space communication.
- The robust nickel plated steel test port design ensures a long service life.





## Specifications

### Specifications

- Material: PE100, nickel plated steel
- Temperature rating: -40 °C to 50 °C
- Primary pressure rating: 10 bar
- Secondary pressure rating: 5 bar
- Primary vacuum rating: -0.9 bar
- Secondary vacuum rating: -0.6 bar
- 75x63 mm model options include 1½" BSPT reducer fittings ideal for shear valve connections.

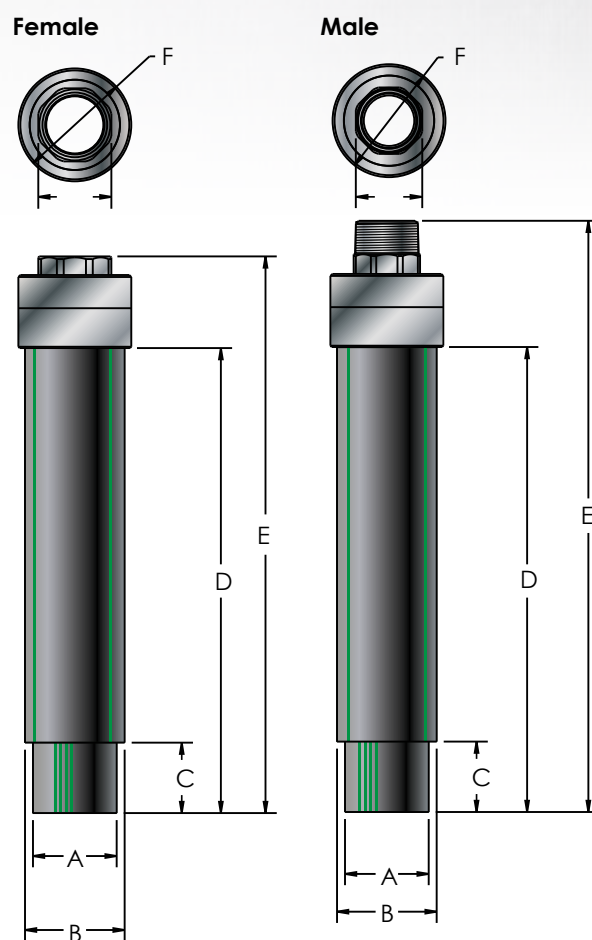
### Approvals

- EN14125-2013 approved.

## Dimensions

Use the diagram and table for a full set of product dimensions.

Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
91-063-050 BSPT	50	63	50	350	445	72	50
91-063-050-TP BSPT	50	63	50	350	445	74	50
92-063-050 BSPT	50	63	50	350	428	72	55
92-063-050-TP BSPT	50	63	50	350	428	74	55
91-075-063-1-TP BSPT	63	75	53	350	445	88	50
91-075-063-TP BSPT	63	75	53	500	599	88	62
92-075-063-1 BSPT	63	75	53	350	419	85	55
92-075-063-TP BSPT	63	75	53	500	583	88	67
91-110-090-TP BSPT	90	110	72	500	623	120	90
92-110-090 BSPT	90	110	72	500	601	120	94
92-110-090-TP BSPT	90	110	72	500	601	120	94
91-125-110-TP BSPT	110	125	82	500	637	139	114
92-125-110 BSPT	110	125	82	500	610	136	120
92-125-110-TP BSPT	110	125	82	500	610	139	120



## Specifications - continued

### 63x50 mm Double Wall Termination Fittings

Model	Description	Pack Size	Weight (kg)	Weight (lbs)
91-063-050 BSPT	Male, 63x50mm, BSPT thread	6	1.64	3.6
91-063-050-TP BSPT	Male, 63x50mm, BSPT thread, with test port	6	1.64	3.6
92-063-050 BSPT	Female, 63x50mm, BSPT thread	6	1.52	3.4
92-063-050-TP BSPT	Female, 63x50mm, BSPT thread, with test port	6	1.52	3.4

### 75x63 mm Double Wall Termination Fittings

Several 75x63 mm model options are available with 1½" BSPT threads ideal for shear valve connections.

Model	Description	Pack Size	Weight (kg)	Weight (lbs)
91-075-063-1-TP BSPT	Male, 75x63mm, 1½" BSPT thread with test port	4	2.1	4.6
91-075-063-TP BSPT	Male, 75x63mm, 2" BSPT thread, with test port	4	2.1	4.6
92-075-063-1 BSPT	Female, 75x63mm, 1½" BSPT thread	4	2	4.4
92-075-063-TP BSPT	Female, 75x63mm, 2" BSPT thread, with test port	4	2	4.4

### 110x90 mm Double Wall Termination Fittings

Model	Description	Pack Size	Weight (kg)	Weight (lbs)
91-110-090-TP BSPT	Male, 110x90mm, BSPT thread, with test port	2	5.1	11.2
92-110-090 BSPT	Female, 110x90mm, BSPT thread	2	5.1	11.2
92-110-090-TP BSPT	Female, 110x90mm, BSPT thread, with test port	2	5.1	11.2

### 125x110 mm Double Wall Termination Fittings

Model	Description	Pack Size	Weight (kg)	Weight (lbs)
91-125-110-TP BSPT	Male, 125x110mm, BSPT thread, with test port	2	6.58	14.5
92-125-110 BSPT	Female, 125x110mm, BSPT Thread	2	6.08	13.4
92-125-110-TP BSPT	Female, 125x110mm, BSPT thread, with test port	2	6.08	13.4





# Electrical Conduit

## The Next Level of Electrical Conduit

The old days of installing potentially corrosive metallic electrical conduit are over. The technologically advanced UPP brand 32mm Electrical Conduit from Franklin Fueling Systems features several key upgrades that metallic conduit just can't provide - keeping your investment safe underground for years to come.

### Highlights

#### Underground Electrical System Protection

Used by the world's leading marketers, UPP™ brand 32mm Electrical Conduit carries 1/2" and 3/4" electrical cables underground, providing a safe and easy-to-install alternative to metallic piping as a means of providing power to dispenser sumps and chambers. With a full range of fittings, adapters and boots, you can ensure you have the right solution for any application.

#### Electrical Conduit Key Highlights

- Quality construction.
- Flexible, easy-to-install material.
- Non-corrosive construction.
- No buried joints.
- Electrofusion welded, watertight solution.
- Complete line of fittings, adapters and boots.

#### Quality Construction

UPP™ brand 32mm Electrical Conduit is manufactured from a superior quality high density polyethylene material using an extrusion process which provides an extremely smooth inner bore. A tough, yet smooth specially formulated bonded inner liner provides a near-zero permeation barrier. The exceptionally smooth inner bore makes installation of wiring easy by eliminating the need to use draw wires. Electrical wiring can easily be pushed through the smooth bore of the pipe.

#### A Lightweight Solution

UPP™ brand 32mm Electrical Conduit is anywhere between four to nine-times lighter than comparable metallic conduit. A heavier conduit can end up costing you more in transportation costs as well as installation. A heavier pipe is harder to work with and can extend installation times. UPP Electrical Conduit is available in 100 meter coils, meaning you can skip time-consuming connections like the ones you have to make with limited length metallic pipe.

#### Flexibility is Key

With its flexible nature, UPP™ brand 32mm Electrical Conduit provides a single-run, point-to-point solution making installation quick and easy. Available in 100 meter coils, this conduit allows you to make expansive pipe runs without any buried joints or potential leak paths which is something metallic pipe cannot offer.

#### A True Watertight Solution

What's the point of having a watertight product pipework system if you are using rubber boots and seals with your electrical system? The highly efficient electrofusion welding process connects pipe and fittings to create a seamless direct burial pipework system. Welding is quick and easy using the on site, lightweight, portable electrofusion welder. The Electrical Conduit electrofusion entry seal allows you to effectively join your electrical system directly to your containment spaces, eliminating any potential leak paths.

#### Non-Corrosive

Because of its porous nature, metallic piping can begin to corrode over time when it is exposed to humidity and water in the ground. This moisture can even infiltrate threaded connections with potential exposure to electrical wiring. The last thing you want to mix with electricity is water. UPP™ brand 32mm Electrical Conduit features a non-corrosive high density polyethylene construction.

#### Easy Connect

Mating standard electrical fittings to UPP brand Electrical Conduit is simple with UPP termination fittings. These compression fittings tighten into the UPP Electrical Conduit, allowing you to simply thread on a standard seal off fitting. Options for both BSPT and NPT threads are available.



# 32 mm 1" Lined Electrical Conduit

The semi-flexible nature of the conduit means that it is easier to install in comparison to metal conduits.

Due to its non-corrodible nature, the UPP 32 mm electrical conduit solves the problem of deteriorating steel armoured cable and metallic conduits. Cables inside the conduit are not affected by contaminants in the ground. Conduit runs are completely joint-free thanks to the UPP fusion welding system.

Employing the latest and ever improving production technologies, UPP electrical conduit is manufactured from the best quality high density polyethylene material using an extrusion process which provides a bore of exceptional smoothness. A tough, extremely smooth, specially formulated bonded liner, running its full length, enables UPP conduit to achieve near-zero permeation. This permeation barrier makes installation of wiring easy and eliminates the need to use draw wires as the electrical wiring can easily be pushed through the smooth bore of the pipe. The UPP patented permeation barrier protects wiring from the ingress of any products. The day-glow orange colour makes it easy to identify.

- Certified by ERA to AS/NZS 2053.1.2001.
- Corrosion resistant.
- Electrofusion welding system.
- A complete range of fittings.
- Day-glow orange for maximum visibility.
- 25 mm internal bore.



Produktcode	Description	Unit	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
001-032-100-EC-E	UPP Elect. Conduit Orange 32mm 100M	100m	0.29	0.19	32

NOTE: Ideal for boiler house applications or small stand-by generators. OFTEC Listed. Also ideal for AdBlue.



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
02-032-L	UPP Fusion Coupler 32mm - Long	50	0.06	0.13	32







Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
49-040-032	UPP Fusion Reducer 40x32mm Secondary	50	0.06	0.13	40/32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
302-040	UPP Fusion Seal 40mm	45	0.1	0.22	40



Model	Description	Pack Size	Weight (kg)	Weight (lbs)
ESI-CAP-012	Weld Pin Protection Cap	100	0.004	0.01



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11-032-EC	UPP Termination 32mm 1" BSP Orange	25	0.106	0.23	32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11-032-EC-NPT	UPP Termination 32mm 1" NPT Grey	25	0.106	0.23	32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11-032-EC-075	BLUE Termination - 32mm 1/4" NPT	25	0.1	0.22	32

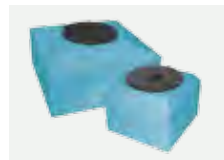


Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
10-032-EC	Compression Fitting End Cap	25	0.1	0.22	32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11.321	Compression Termination - BSPT Male	25	0.42	0.93	32

## Related Items

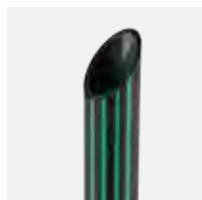
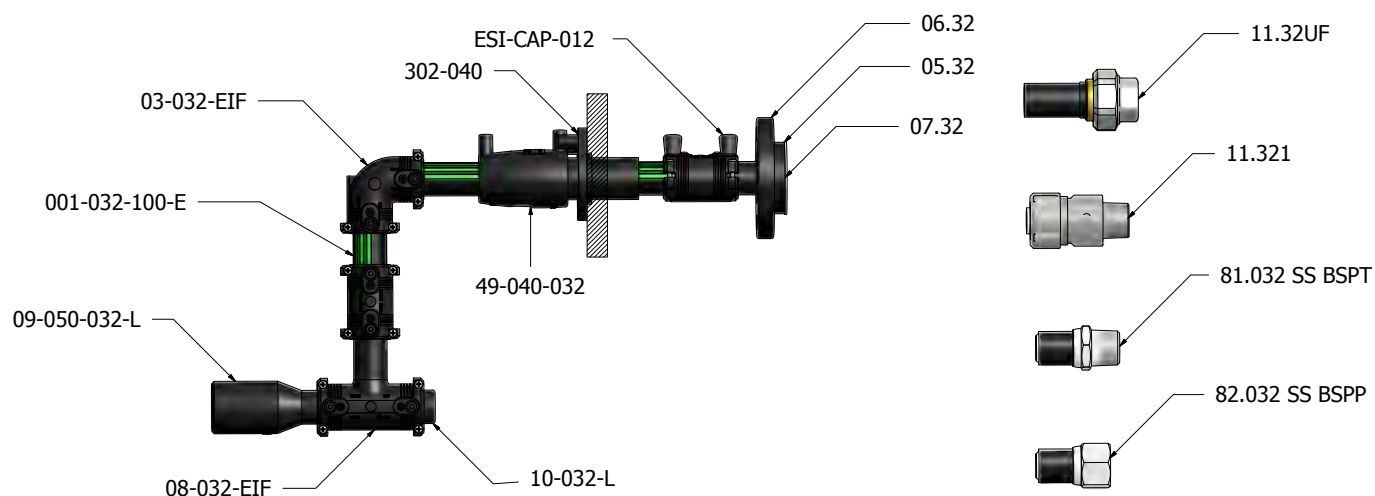


Model	Description	Pack Size	Weight (kg)	Weight (lbs)
IPS-2424	Electrical Draw Pit 24" x 24"	1	11.8	26
IPS-3636	Electrical Draw Pit 36" x 36"	1	29.9	66





# 32 mm 1" Primary



Model	Description	Unit	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
001-032-100-E	UPP Extra Pipe 32mm Coil 100M	100m	0.29	0.19	32

NOTE: Ideal for boiler house applications or small stand-by generators. OFTEC Listed. Also ideal for AdBlue.



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
02-032-L	UPP Fusion Coupler 32mm - Long	50	0.06	0.13	32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
03.32	UPP Plain Elbow 90° 32mm	40	0.06	0.13	32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
03-032-EIF	UPP Electrofusion 90° 32mm	30	0.08	0.18	32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
04-032-EIF	UPP Electrofusion Elbow 45° 32mm	24	0.08	0.18	32





Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
05.32-L	UPP Stub 32mm	50	0.06	0.13	32
06.32	UPP Flange Circular DN25 32mm	34	0.44	0.97	32
07.32	UPP Gasket 32mm for Stub	10	0.012	0.03	32

NOTE: ANSI version is available.



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
08.32	UPP Tee Equal 32mm	20	0.08	0.18	32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
08-032-EIF	UPP Electrofusion Tee Equal 32mm	22	0.25	0.55	32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
49-040-032	UPP Fusion Reducer 40x32mm Secondary	50	0.06	0.13	40/32
49-040-032-TP-1	UPP Fusion Reducer 40x32mm Sec with Test Port	50	0.08	0.18	40/32

NOTE: Test Ports are 7mm Schrader valves with Protective Caps



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
09-050-032-L	UPP Plain Reducer 50x32mm (pictured)	40	0.07	0.15	50/32
09-063-032-L	UPP Plain Reducer 63x32mm	28	0.11	0.24	63/32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
10-032-L	UPP End Cap 32mm	50	0.02	0.04	32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
302-040	UPP Fusion Seal 40mm	45	0.1	0.22	40



Model	Description	Pack Size	Weight (kg)	Weight (lbs)
ESI-CAP-012	Weld Pin Protection Cap	100	0.004	0.01



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11.32UF	UPP Union Termination 32mm x 1" BSP	20	0.34	0.75	32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11.321	UPP Compression Termination 32mm x 1" BSP Male	25	0.42	0.93	32

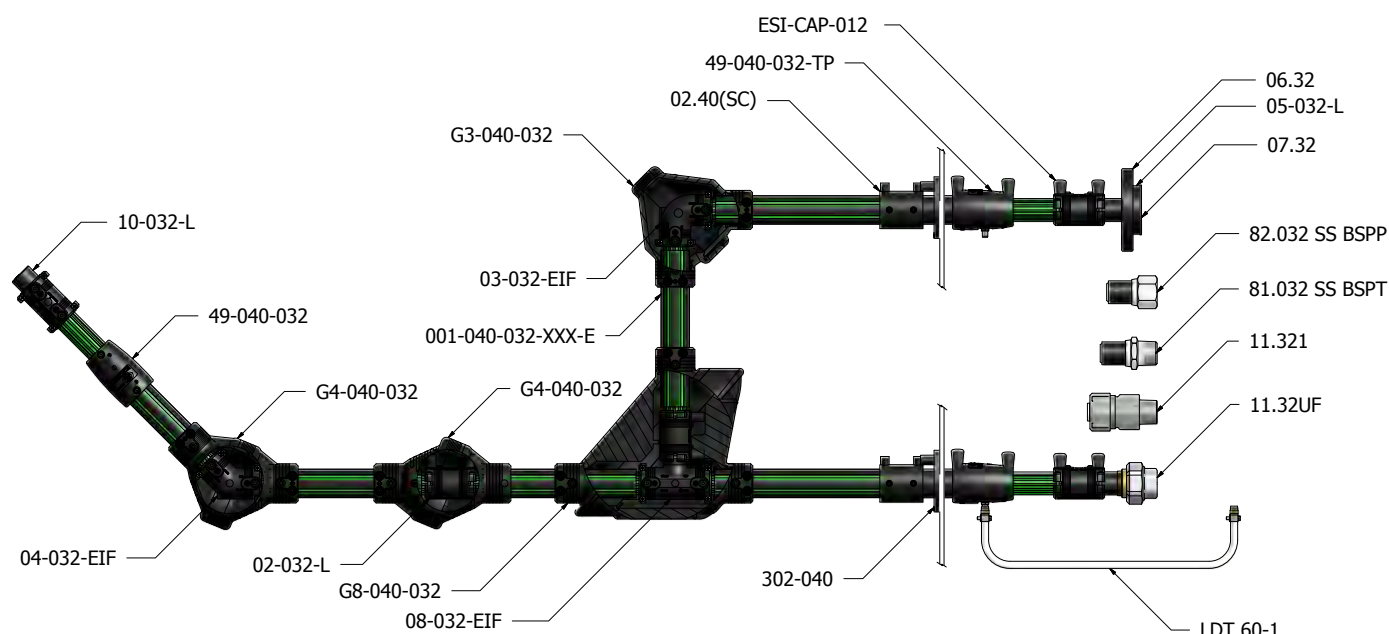


Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
81.032 SS BSPT	UPP SS Termination 32mm x 1" BSPT Male	50	0.256	0.56	32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
82.032 SS BSPP	UPP SS Termination 32mm x 1" BSPP Female	50	0.25	0.55	32

# 40x32 mm 1" Secondary Containment



Model	Description	Pack Size	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
001-040-032-050-E	UPP Extra 32mm Coaxial Coil 50M	50m	0.64	0.43	40/32
001-040-032-100-E	UPP Coaxial Pipe 32mm Coil 100M	100m	0.64	0.43	40/32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
G3-040-032	SC 40x32mm UPP Gemini 90° Elbow	12	0.53	1.17	32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
G4-040-032	SC 40x32mm UPP Gemini 45° Elbow OR SC 40x32mm UPP Gemini Inline Joint	12	0.43	0.95	32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
G8-040-032	SC 40x32mm UPP Gemini Tee	4	1.19	2.62	32





Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
02.40(SC)	UPP Fusion Coupler 40mm Secondary	20	0.06	0.13	40



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
02.75(SC)	UPP Fusion Coupler 75mm Secondary	20	0.11	0.24	75



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
13.75.40(SC)	UPP Reducer 75x40mm Secondary	40	0.162	0.36	75/40



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
49-040-032	UPP Fusion Reducer 40x32mm Secondary	50	0.06	0.13	40/32
49-040-032-TP	UPP Fusion Reducer 40x32mm Sec with Test Port	50	0.08	0.18	40/32

NOTE: Test Ports are 7mm Schrader valves with Protective Caps



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
09-050-032-L	UPP Plain Reducer 50x32mm (pictured)	40	0.07	0.15	50/32
09-063-032-L	UPP Plain Reducer 63x32mm	28	0.11	0.24	63/32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
ESI-CAP-012	Weld Pin Protection Cap	100	0.004	0.01	32



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
STB-100	UPP Test Boot 40x32mm Secondary with Test Port	1	0.2	0.5	40/32

NOTE: Test Ports are 7mm Schrader valves with Protective Caps



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
302-040	UPP Fusion Seal 40mm	45	0.1	0.22	40







Model	Description	Pack Size	Weight (kg)	Weight (lbs)
ESI-CAP-012	Weld Pin Protection Cap	100	0.004	0.01

## Related Items

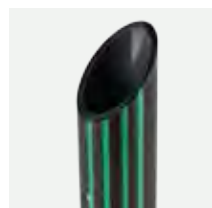
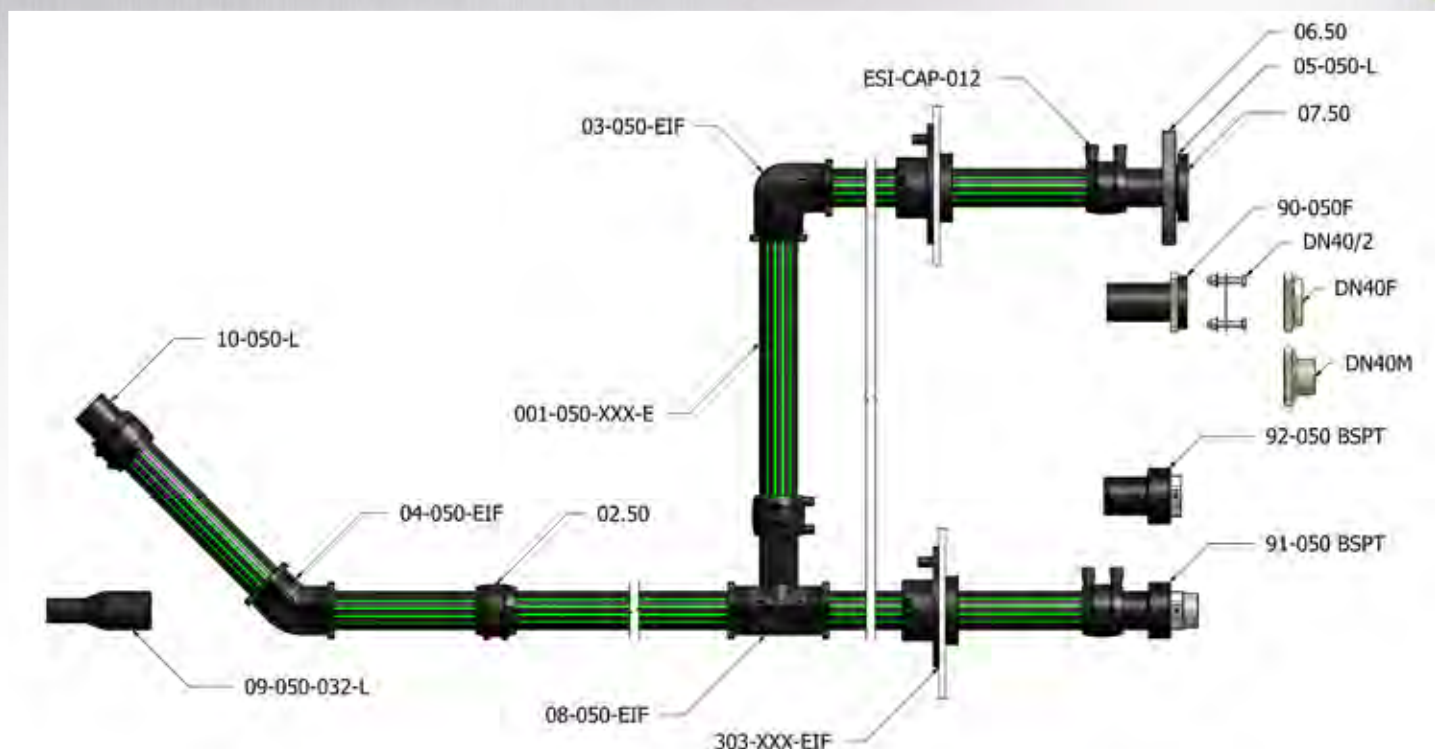


Model	Description	Pack Size	Weight (kg)	Weight (lbs)
LDT 60-1	Leak Detection Tube Kit - not for use with STB-100 product offering	1	0.05	0.11



Model	Description	Pack Size	Weight (kg)	Weight (lbs)
BPT-200	Leak Detection Tube Kit - for use with STB-100 product offering	1	0.05	0.11

# 50 mm 1½" Primary



Model	Description	Unit	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
001-050-006-E	UPP Extra Pipe 50mm L=5.8M	696m	0.66	0.45	50
001-050-050-E	UPP Extra Pipe 50mm Coil 50M	50m	0.66	0.45	50
001-050-100-E	UPP Extra Pipe 50mm Coil 100M	100m	0.66	0.45	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
02.50	UPP Fusion Coupler 50mm	20	0.08	0.18	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
03-050-L	UPP Plain Elbow 90° 50mm	30	0.16	0.35	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
03-050-EIF	UPP Electrofusion Elbow 90° 50mm	30	0.2	0.44	50





Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
04-050-L	UPP Plain Elbow 45° 50mm	22	0.13	0.29	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
04-050-EIF	UPP Electrofusion Elbow 45° 50mm	22	0.13	0.29	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
05-050-A	Stub, ANSI	50	0.12	0.26	50
05-050-L	UPP Stub 50mm	50	0.12	0.26	50
06.50	UPP Flange Circular DN40 50mm	17	1.54	3.4	50
07.50	UPP Gasket 50mm for Stub	10	0.02	0.04	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
08-050-L	UPP Plain Tee Equal 50mm	20	0.21	0.46	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
08-050-EIF	UPP Electrofusion Tee 50mm	22	0.25	0.55	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
09-050-032-L	UPP Plain Reducer 50x32mm	40	0.07	0.15	50/32
09-063-050-L	UPP Plain Reducer 63x50mm (pictured)	24	0.13	0.29	63/50
09-090-050-L	UPP Plain Reducer 90x50mm	15	0.29	0.64	90/50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
09-063-050-EIF	UPP Electrofusion Reducer 63x50mm	30	0.35	0.77	63/50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
10-050-L	UPP End Cap 50mm	30	0.05	0.11	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
303-050-EIF	Fusion Seal with Integrated Coupler	20	0.21	0.46	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
ESI-CAP-012	Weld Pin Protection Cap	100	0.004	0.01	



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
90-050F	UPP Flanged Termination 50mm	6	0.35	0.77	50
DN40M	UPP Coupling Flange 1½" BSPT Male	30	0.49	1.08	50
DN40F	UPP Coupling Flange 1½" BSPP Female	30	0.418	0.92	50
DN40/2	UPP Gasket & Bolt Set for Coupling Flange DN 40	1	0.12	0.26	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
91-050 BSPT	UPP Termination 50mm x 1½" BSPT Male	16	0.52	1.15	50
91-050 NPT	UPP Termination 50mm x 1½" NPT Male	16	0.52	1.15	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
81-050 SS BSPT	UPP Stainless Steel Termination 50mm x 1½" BSPT Male	20	0.502	1.11	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
92-050 BSPT	UPP Termination 50mm x 1½" BSPT Female	16	0.34	0.75	50
92-050 NPT	UPP Termination 50mm x 1½" NPT Female	16	0.34	0.75	50

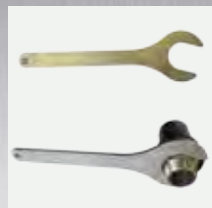


Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
82-050 SS BSPP	UPP Stainless Steel Termination 50mm x 1½" BSPP Female	30	0.575	1.27	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
92-050 U/F BSPT	UPP Union Termination 50mm x 1½" BSPT	16	0.61	1.34	50
92-050 U/F NPT	UPP Union Termination 50mm x 1½" NPT	16	0.61	1.34	50





Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
91-050-TOOL	Plate Spanner 50A/F 91-050 For all Male 50mm sizes	1	0.8	1.7	50
92-050-TOOL	Plate Spanner 55A/F 92-050 For all Female 50mm sizes	1	0.9	1.9	50

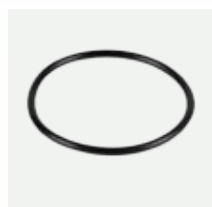


Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11.50G	Spare Gasket for 11.50UF	10	0.004	0.01	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
12-050 BSPT	Compression Termination 50mm/1 1/2" diameter - BSPT Male	10	0.6	1.32	50

*Note: Supplied as an assembly with the necessary gasket or olive*

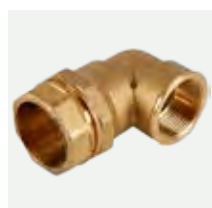


Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
408 046 001	O Ring NBR 35 x 2.5 for 12-050	1	0.001	0.002	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11-501M BSPT	UPP Compression Termination 50mm x 1 1/2" BSPT Male	10	1.02	2.25	50

*Note: Supplied as an assembly with the necessary gasket or olive*



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11-503F BSPT	UPP Compression Elbow 50mm x 1 1/2" BSPT Female	5	1.58	3.48	50

*Note: Supplied as an assembly with the necessary gasket or olive*



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11.505	UPP Compression Tee 50mm x 1 1/2" BSP Female	5	2.5	5.51	50

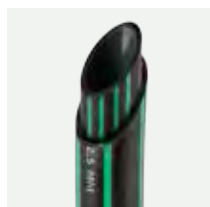
*Note: Supplied as an assembly with the necessary gasket or olive*



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11-50X OL	Spare Olive for 11-50X	10	0.02	0.04	50



# 63x50 mm 1½" Secondary Containment



Model	Description	Unit	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
001-063-050-030-E	UPP Extra Coaxial Pipe 50mm Coil 30M	30m	1.17	0.78	63/50
001-063-050-100-E	UPP Extra Coaxial Pipe 50mm Coil 100M	100m	1.17	0.78	63/50



Model	Description	Pack Size	Weight (kg)	Weight (lbs/ft)	Diameter Ø (mm)
000-063-006-SC-E	UPP Secondary Pipe 63mm L=5.8M	408m	0.5	0.34	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
G3-063-050	SC 63x50mm UPP Gemini 90° Elbow	8	0.77	1.69	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
G4-063-050	SC 63x50mm UPP Gemini 45° Elbow OR SC 63x50mm UPP Gemini Inline Joint	8	0.63	2.64	63





Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
G8-063-050	SC 63x50mm UPP Gemini Tee	TBA	2.28	5.02	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
02.63(SC)	UPP Fusion Coupler 63mm Secondary	20	0.1	0.22	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
03.110(SC)	UPP Elbow 90° UPP 110mm Secondary	20	0.27	0.6	110

NOTE: To contain the 03-50-L 90° Elbow and the 03-050-EIF 90° Elbow.



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
49-063-050	UPP Fusion Reducer 63x50mm Secondary	45	0.18	0.4	63/50
49-063-050-TP	UPP Fusion Reducer 63x50mm Secondary with Test Port	45	0.2	0.44	63/50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
49-110-063(SC)	UPP Sliding Reducer 110x63mm Secondary	15	0.48	1.06	110/63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
STB-175	Test Boot Secondary with Test Port - 63x50mm diameter	1	0.2	0.5	63/50

NOTE: Test Ports are 7mm Schrader valves with Protective Caps.



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
303-063-EIF	UPP Fusion Seal 63mm with Inte-grated Coupler	20	0.24	0.53	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)
ESI-CAP-012	Weld Pin Protection Cap	100	0.004	0.01

## Related Items



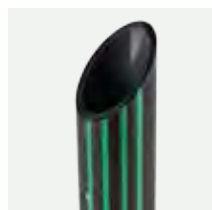
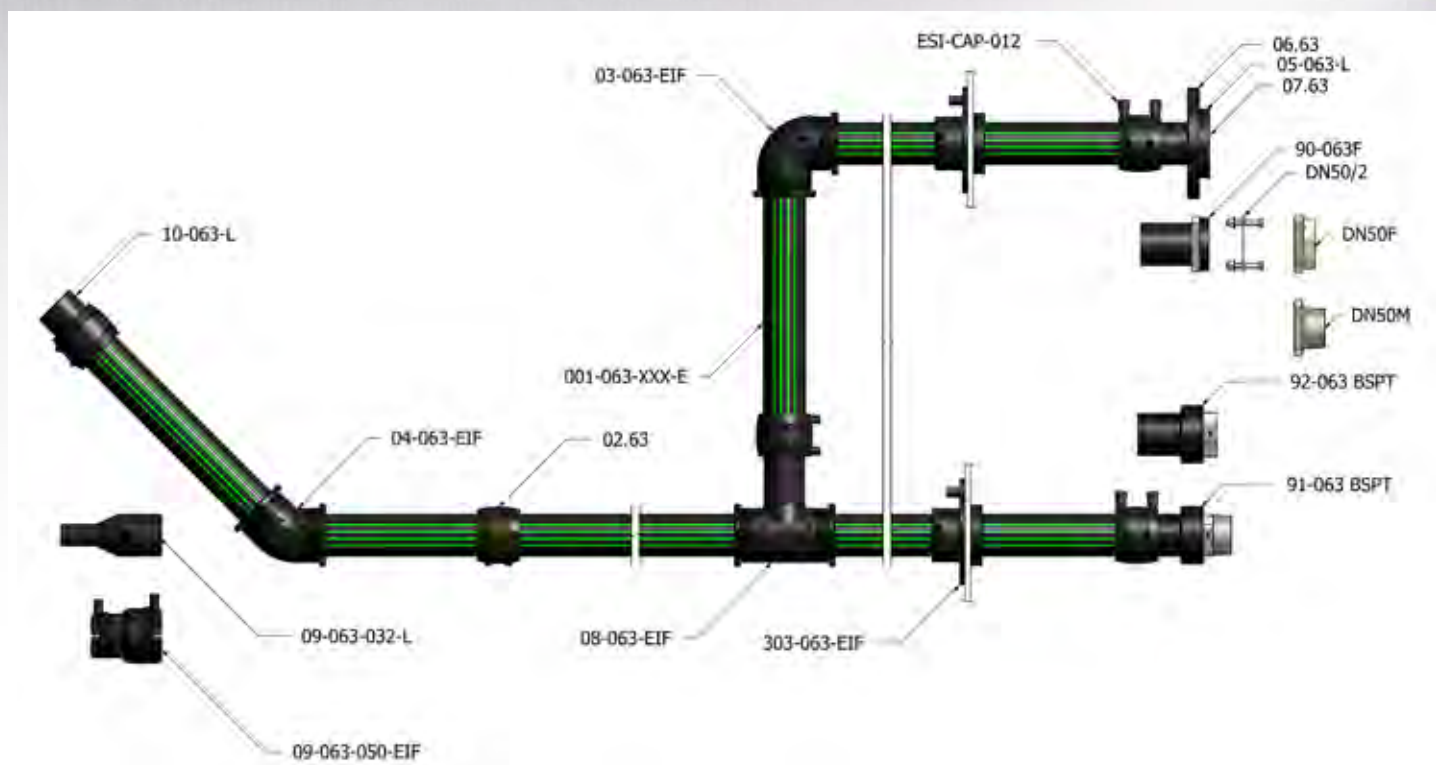
Model	Description	Pack Size	Weight (kg)	Weight (lbs)
LDT 60-1	Leak Detection Tube Kit - not for use with STB-100 product offering	1	0.05	0.11



Model	Description	Pack Size	Weight (kg)	Weight (lbs)
BPT-200	Leak Detection Tube Kit - for use with STB-100 product offering	1	0.05	0.11



# 63 mm 2" Primary Pipe



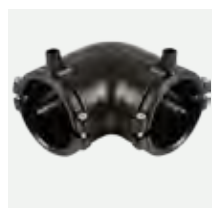
Model	Description	Pack Size	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
001-063-006-E	UPP Extra Pipe 63mm L=5.8M	408m	0.89	0.59	63
001-063-007-E	UPP Extra Pipe 63mm L=7.5M	408m	0.89	0.59	63
001-063-008-E	UPP Extra Pipe 63mm L=8M	544m	0.89	0.59	63
001-063-100-E	UPP Extra Pipe 63mm Coil=100M	100m	0.89	0.59	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
02.63	UPP Fusion Coupler 63mm	25	0.12	0.26	63
02-63-L	Fusion Coupler Long	10	0.18	0.39	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
03-063-L	UPP Plain Elbow 90° 63mm	20	0.27	0.6	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
03-063-EIF	UPP Electrofusion Elbow 90° 63mm	18	0.3	0.66	63





Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
04-063-L	UPP Plain Elbow 45° 63mm	50	0.22	0.49	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
04-063-EIF	UPP Electrofusion Elbow 45° 63mm	24	0.25	0.55	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
05-063-L	UPP Stub 63mm	30	0.18	0.4	63
06.63	UPP Flange Circular DN50 63mm	15	0.88	1.94	63
07.63	UPP Gasket 63mm for Stub	10	0.02	0.04	63

NOTE: ANSI version is available.



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
08-063-L	UPP Plain Tee Equal 63mm	25	0.37	0.82	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
08-063-EIF	UPP Electrofusion Tee 63mm	12	0.41	0.9	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
08-090-063-L	UPP Reducing Tee 90x63mm	15	0.83	1.83	90
08-110-063-L	UPP Reducing Tee 110x63mm	10	1.27	2.8	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
09-063-032-L	UPP Plain Reducer 63x32mm	15	0.29	0.64	90/50
09-063-050-L	UPP Plain Reducer 63x50mm	15	0.29	0.64	90/50
09-090-063-L	UPP Plain Reducer 90x63mm (pictured)	20	0.32	0.71	90/63
09-110-063-L	UPP Plain Reducer 110x63mm	30	0.35	0.77	110/63





Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
09-063-050-EIF	UPP Electrofusion Reducer 63x50mm	30	0.35	0.77	63/50
09-090-063-EIF	UPP Electrofusion Reducer 90x63mm (pictured)	30	0.35	0.77	90/63



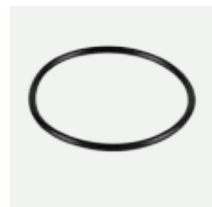
Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
10-063-L	UPP End Cap 63mm	50	0.08	0.18	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
303-063-EIF	Fusion Seal with Integrated Coupler	20	0.24	0.53	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)
ESI-CAP-012	Weld Pin Protection Cap	100	0.004	0.01



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
12.63.ORING	O Ring for 12.63	1	0.002	0.004	63

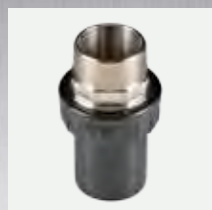


Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
90-063F	UPP Flanged Termination 63mm	6	0.4	0.88	63
DN50M	UPP Coupling Flange 2" BSPT Male	25	0.66	1.46	2"
DN50M NPT	UPP Coupling Flange 2" NPT Male	40	0.634	1.4	2"
DN50F	UPP Coupling Flange 2" BSP Female	30	0.498	1.1	2"
DN50/2	UPP Gasket & Bolt Set for Coupling Flange DN 50	1	0.108	0.24	--

\* Available on request.



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
91-063-1 BSPT	UPP Termination 63mm x 1 1/2" BSPT Male	9	0.59	1.34	63
91-063-1 NPT	UPP Termination 63mm x 1 1/2" NPT Male	9	0.59	1.34	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
91-063 BSPT	UPP Termination 63mm x 2" BSPT Male	9	0.7	1.54	63
91-063 NPT	UPP Termination 63mm x 2" NPT Male	9	0.7	1.54	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
81.063 SS BSPT	UPP SS Termination 63mm x 2" BSPT Male	20	0.756	1.67	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
92-063-1 BSPT	UPP Termination 63mm x 1½" BSPT Female	9	0.42	0.93	63
92-063-1 NPT	UPP Termination 63mm x 1½" NPT Female	9	0.42	0.93	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
92-063 BSPT	UPP Termination 63mm x 2" BSPT Female	9	0.55	1.21	63
92-063 NPT	UPP Termination 63mm x 2" NPT Female	9	0.55	1.21	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
82.063 SS BSPP	UPP SS Termination 63mm x 2" BSPP Female	20	0.785	1.73	63



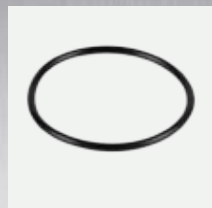
Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
92-063 UF BSPT	UPP Union Termination 63mm x 2" BSPT	9	0.91	2.01	63
92-063UF NPT	UPP Union Termination 63mm x 2" NPT	9	0.91	2.01	63

*Note: The Union and Compression Transitions are supplied as an assembly with the necessary gasket or olive*



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
12-063-1 BSPT	Compression Termination 50mm/1½" diameter - BSPT Male	10	1.2	2.64	63
12-063 BSPT	Compression Termination 63mm/2" diameter - BSPT Male	10	1.15	2.53	63

*Note: The Union and Compression Transitions are supplied as an assembly with the necessary gasket or olive*



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
408-045-001	O Ring NBR 48 x 3 for 12-063	1	0.001	0.002	50



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11-631M BSPT	Compression Termination 63mm/2" diameter - BSPT	1	0.98	2.16	63
11-631M-1 BSPT	Compression Termination 63mm/1½" diameter - BSPT	1	0.98	2.16	63

*Note: The Union and Compression Transitions are supplied as an assembly with the necessary gasket or olive*



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11-63X OL	Spare Olive for 11-63X	10	0.02	0.04	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
91-063-TOOL	Plate Spanner 62A/F 91-063 For all Male 63mm sizes	1	1.1	2.4	63
92-063-TOOL	Plate Spanner 67A/F 92-063 For all Male 63mm sizes	1	1.2	2.6	63

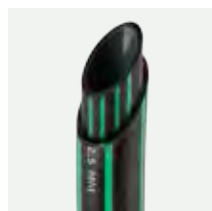
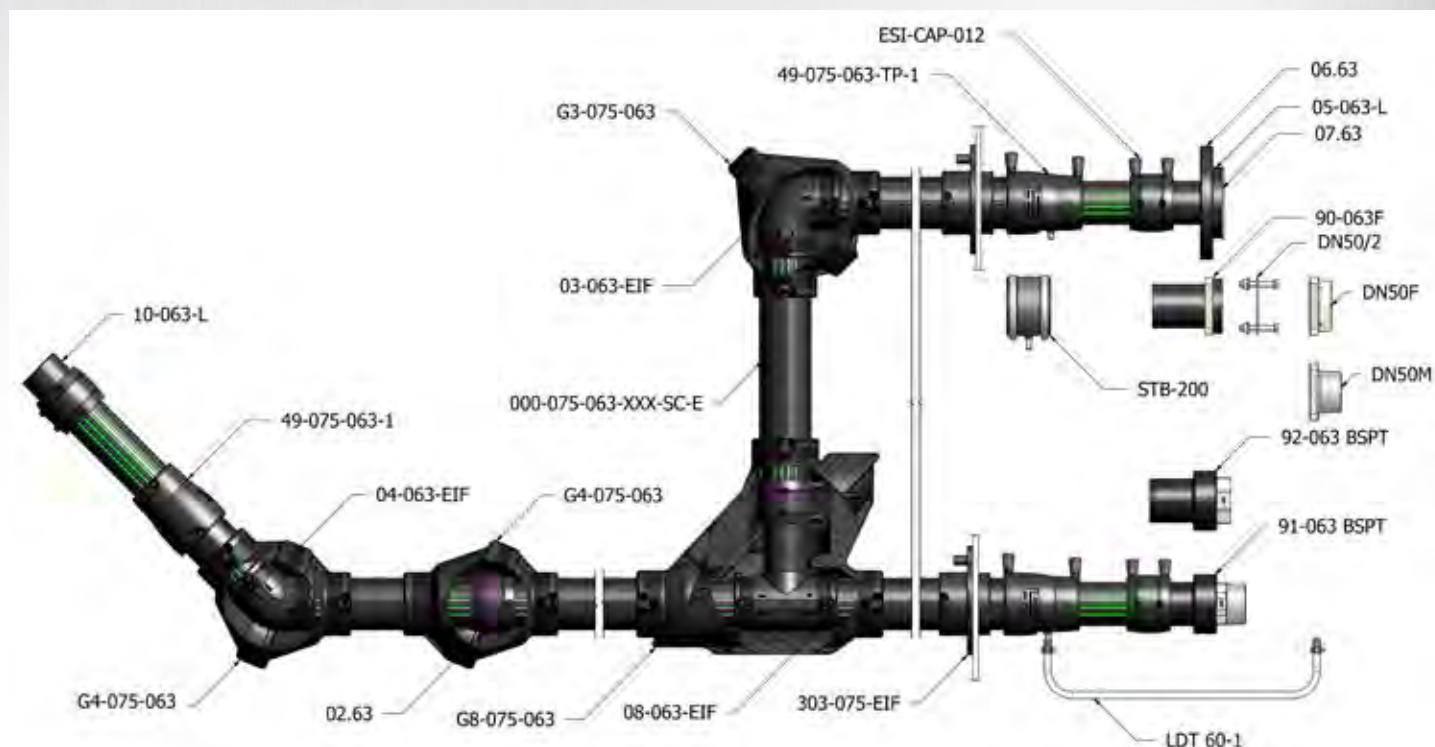


Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11.63G	Spare Gasket for 63UF fittings	10	0.003	0.01	63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
BV(2)	Ball Valve 2" BSP F/F ½ Turn	1	1.99	4.39	Galvanised Steel

# 75x63 mm 2" Secondary Containment



Model	Description	Pack Size	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
001-075-063-010-E	UPP Extra Coaxial Pipe 63mm L=10M	460m	1.72	1.15	75/63
001-075-063-030-E	UPP Extra Coaxial Pipe 63mm Coil 30M	30m	1.72	1.15	75/63
001-075-063-050-E	UPP Extra Coaxial Pipe 63mm Coil 50M	50m	1.72	1.15	75/63



Model	Description	Pack Size	Weight (kg)	Weight (lbs/ft)	Diameter Ø (mm)
000-075-006-SC-E	UPP Secondary Pipe 75mm L=5.8M	276m	0.67	0.45	75
000-075-008-SC-E	UPP Secondary Pipe 75mm L=8M	368m	0.67	0.45	75
000-110-006-SC-E	UPP Secondary Pipe 110mm L=5.8M	138m	1.46	0.98	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
G3-075-063	SC 75x63mm UPP Gemini 90° Elbow	6	1.2	2.64	75





Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
G4-075-063	SC 75x63mm UPP Gemini 45° Elbow OR SC 75x63mm UPP Gemini Inline Elbow	6	0.93	2.08	75



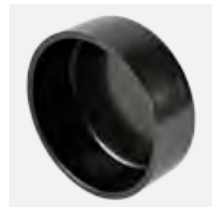
Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
G8-075-063	SC 75x63 UPP Gemini Tee	2	2.98	6.65	75



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
02.75(SC)	UPP Fusion Coupler 75mm Secondary (pictured)	20	0.11	0.24	75
02.110(SC)	UPP Fusion Coupler 110mm Secondary	35	0.17	0.37	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
09.110.75(SC)	UPP Reducer 110x75mm Secondary	15	0.1	0.22	110/75



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
10-075-SC	UPP End Cap 75mm Secondary	20	0.11	0.24	75
10-110-SC	UPP End Cap 110mm Secondary	20	0.4	0.8	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
49-075-063-1	UPP Fusion Reducer 75x63mm Secondary	25	0.2	0.44	75/63
49-075-063-TP-1	UPP Fusion Reducer 75x63mm Secondary with Test Port	25	0.22	0.49	75/63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
49-110-075(SC)	UPP Sliding Reducer 110x75mm Secondary	15	0.48	1.06	110/75



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
STB-200	UPP Test Boot 75x63mm Secondary with Test Port	1	0.2	0.5	75/63

NOTE: Test Ports are 7mm Schrader valves with Protective Caps.







Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
303-075-EIF	UPP Fusion Seal 75mm with Integrated Coupler	20	0.24	0.53	75



Model	Description	Pack Size	Weight (kg)	Weight (lbs)
ESI-CAP-012	Weld Pin Protection Cap	100	0.004	0.01

## Related Items

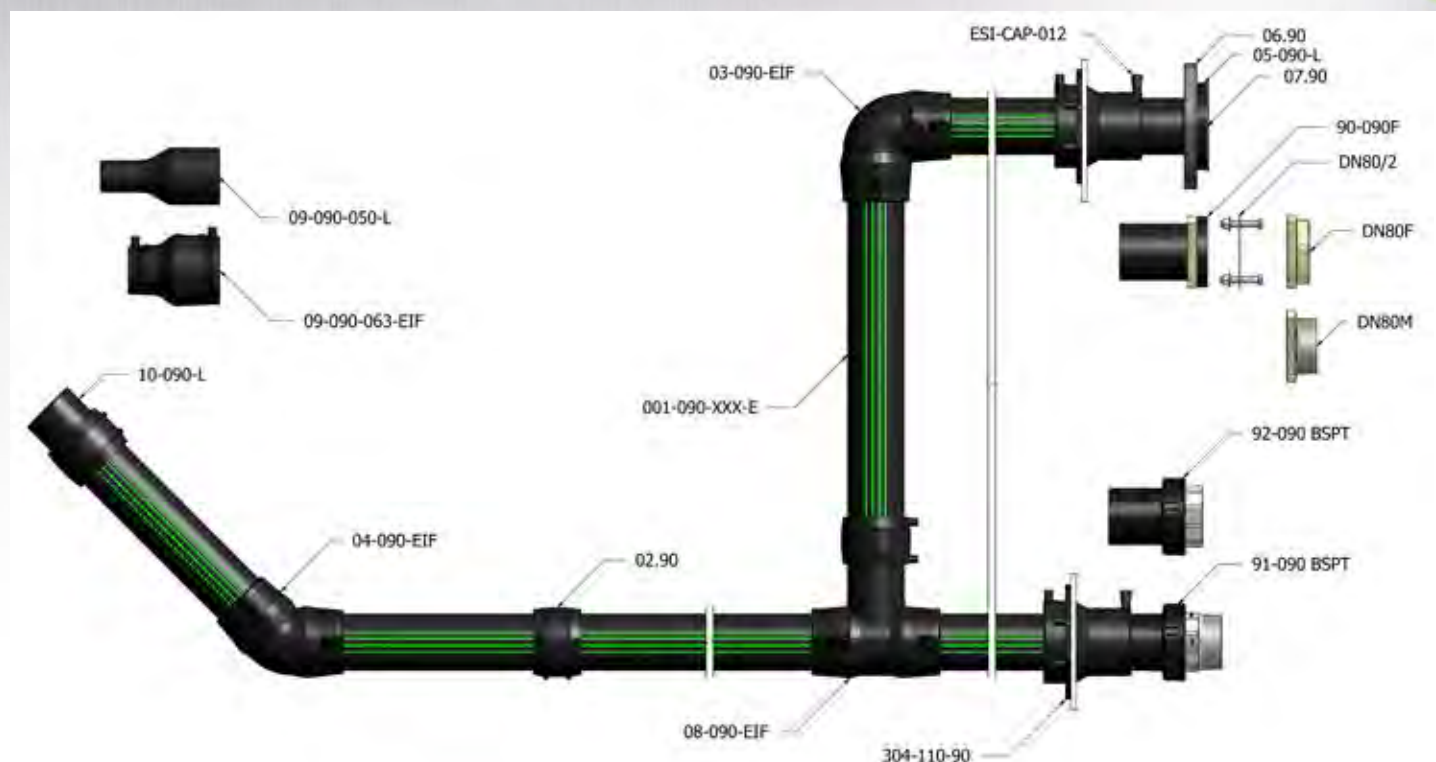


Model	Description	Pack Size	Weight (kg)	Weight (lbs)
LDT 60-1	Leak Detection Tube Kit - not for use with STB-100 product offering	1	0.05	0.11



Model	Description	Pack Size	Weight (kg)	Weight (lbs)
BPT-200	Leak Detection Tube Kit - for use with STB-100 product offering	1	0.05	0.11

# 90 mm 3" Primary



Model	Description	Pack Size	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
001-090-006-E	UPP Extra Pipe 90mm L=5.8M	35 sticks	1.81	1.22	90
001-090-050-E	UPP Extra Pipe 90mm Coil 50M	1	1.81	1.22	90



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
02.90	UPP Fusion Coupler 90mm	18	0.2	0.44	90



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
03-090-L	UPP Plain Elbow 90° 90mm	8	0.69	1.52	90



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
03-090-EIF	UPP Electrofusion Elbow 90° 90mm	15	0.69	1.52	90

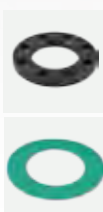




Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
04-090-L	UPP Plain Elbow 45° 90mm	6	0.57	1.26	90



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
04-090-EIF	UPP Electrofusion Elbow 45° 90mm	20	0.56	1.23	90



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
05-090-L	UPP Stub 90mm	12	0.48	1.06	90
06.90	UPP Flange Circular DN80 90mm	9	1.4	3.09	90
07.90	UPP Gasket 90mm for Stub	10	0.04	0.09	90

NOTE: ANSI version is available.



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
08-90-L	UPP Plain Tee Equal 90mm	7	1.02	2.25	90



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
08-090-EIF	UPP Electrofusion Tee 90mm	10	0.87	1.92	90



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
08-090-063-L	UPP Reducing Tee 90x63mm	15	0.83	1.83	90/63



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
09-090-050-L	UPP Plain Reducer 90x50mm	15	0.29	0.64	90/50
09-090-063-L	UPP Plain Reducer 90x63mm	20	0.32	0.71	90/63
09-110-090-L	UPP Plain Reducer 110x90mm	9	0.55	1.25	110/90





Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
09-090-063-EIF	UPP Electrofusion Reducer 90x63mm	30	0.35	0.77	90/63
09-110-090-EIF	UPP Electrofusion Reducer 110x90mm	16	0.68	1.5	110/90



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
10-090-L	UPP End Cap 90mm	18	0.24	0.53	90



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
304-110-090-TP	Fusion Entry Seal with 110mm & 90mm	10	0.56	1.23	90
304-110-090	Couplers with Test Port (pictured)	5	0.56	1.23	90



Model	Description	Pack Size	Weight (kg)	Weight (lbs)
ESI-CAP-012	Weld Pin Protection Cap	100	0.004	0.01



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
90-090F	UPP Flanged Termination 90mm	4	1	2.2	90
DN80M	UPP Coupling Flange 3" BSPT Male	10	1.312	2.89	3"
DN80F	UPP Coupling Flange 3" BSP Female	20	0.96	2.12	3"
DN80/2	UPP Gasket & Bolt Set for Coupling Flange DN 80	1	0.224	0.49	--



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
91-090 BSPT	UPP Termination 90mm x 3" BSPT Male	6	1.61	3.54	90
91-090 NPT	UPP Termination 90mm x 3" NPT Male	6	1.61	3.54	90

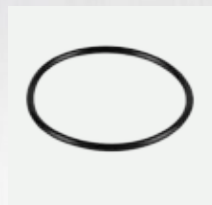


Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
92-090 BSPT	UPP Termination 90mm x 3" BSPT Female	10	1.06	2.34	90
92-090 NPT	UPP Termination 90mm x 3" NPT Female	10	1.06	2.34	90





Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
12-090 BSPT	Compression Termination 90mm/3" diameter - BSPT Male	10	2.7	5.94	90

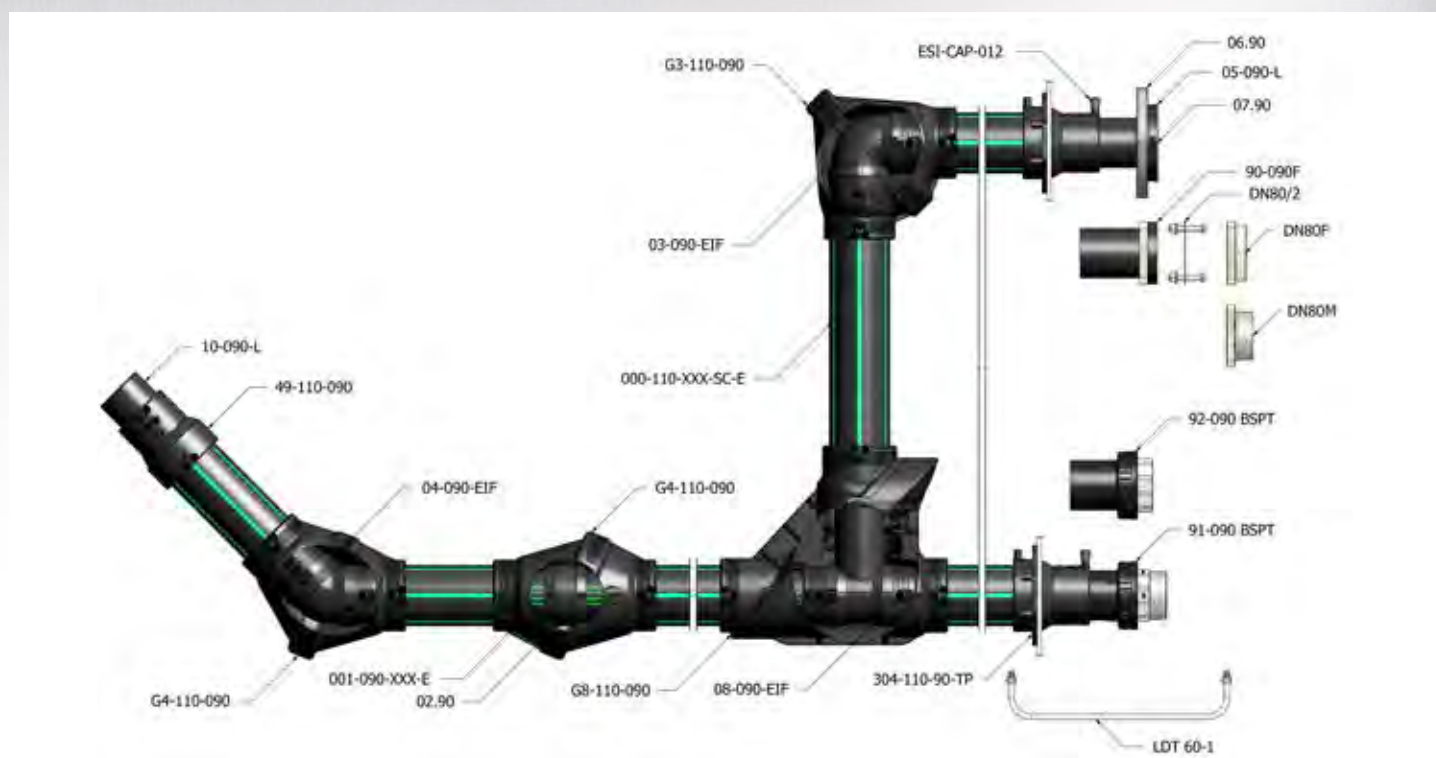


Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
408-044-001	O Ring NBR 69.5 x 3 for 12-090	1	0.001	0.002	90



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
CW-125-PIPE	Chain Wrench 125mm Pipe Max	1	1.2	2.6	90

# 110x90 mm Gemini Secondary Containment



Model	Description	Pack Size	Weight (kg)	Weight (lbs/ft)	Diameter Ø (mm)
000-110-006-SC	SC 110mm Outer Sleeve: 5.8m bar	138	1.46	0.98	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
G3-110-090	SC 110x90 UPP Gemini 90° Elbow	3	1.95	4.29	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
G4-110-090	SC 110x90 UPP Gemini 45° Elbow OR SC 110x90 UPP Gemini Inline Joint	4	1.57	3.46	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
G8-110-090	SC 110x90 UPP Gemini Tee	1	4.41	9.71	110





Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
49-110-090-TP	SC Welding Reducer 110/90mm with Test Port (pictured)	10	0.5	1.1	110/90
49-110-090	SC Welding Reducer 110/90mm	10	0.5	1.1	110/90



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
304-110-090-TP	Fusion Entry Seal with 110mm & 90mm Couplers with Test Port (pictured)	10	0.56	1.23	90
304-110-090	Fusion Entry Seal with 110 & 90mm Couplers	5	0.56	1.23	90



Model	Description	Pack Size	Weight (kg)	Weight (lbs)
ESI-CAP-012	Weld Pin Protection Cap	100	0.004	0.01

## Related Items

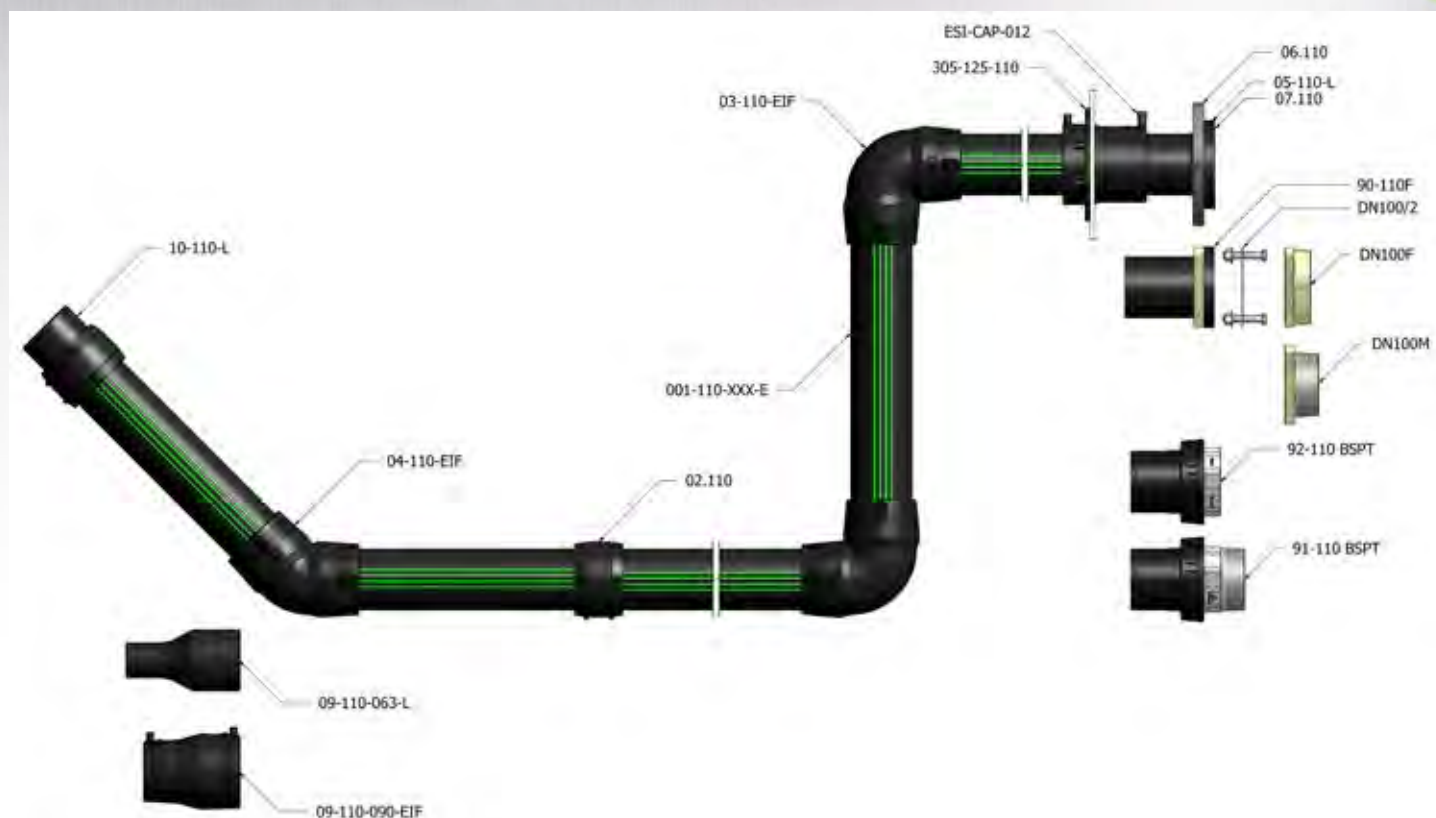


Model	Description	Pack Size	Weight (kg)	Weight (lbs)
LDT 60-1	Leak Detection Tube Kit - not for use with STB-100 product offering	1	0.05	0.11



Model	Description	Pack Size	Weight (kg)	Weight (lbs)
BPT-200	Leak Detection Tube Kit - for use with STB-100 product offering	1	0.05	0.11

# 110 mm 4" Primary



Model	Description	Pack Size	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
001-110-006-E	UPP Extra Pipe 110mm L=6M	138	3.15	2.12	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs/ft)	Diameter Ø (mm)
001-110-006-FILL-E	UPP Extra FILL/VENT Pipe 110mm L=6M	138	2.3	1.55	110
001-110-050-FILL-E	UPP Extra FILL/VENT Pipe Coil 50M	50	2.3	1.55	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
02.110	UPP Fusion Coupler 110mm	15	0.36	0.79	110







Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
03-110-L	UPP Plain Elbow 90° 110mm	8	1.14	2.51	110



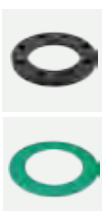
Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
03-110-EIF	UPP Electrofusion Elbow 90° 110mm	8	1.18	2.6	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
04-110-L	UPP Plain Elbow 45° 110mm	12	0.92	2.03	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
04-110-EIF	UPP Electrofusion Elbow 45° 110mm	12	0.97	2.14	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
05-110-L	UPP Stub 110mm	8	0.7	1.54	110
06.110	UPP Flange Circular DN100 110mm	13	1.44	3.17	110
07.110	UPP Gasket 110mm for Stub	10	0.042	0.09	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
08-110-L	UPP Plain Tee Equal 110mm	5	1.63	3.59	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
08-110-EIF	UPP Electrofusion Tee 110mm	6	1.53	3.37	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
08.110.063(L)	UPP Reducing Tee 110x63mm	10	1.27	2.8	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
09-110-063-L	UPP Plain Reducer 110x63mm	10	0.47	1.04	110/63
09-110-090-L	UPP Plain Reducer 110x90mm	9	0.55	1.21	110/90
09-160-110-L	UPP Plain Reducer 160x110mm	4	1.24	2.73	160/110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
09-110-090-EIF	UPP-Elektrofusion, Reduzierstück 110 x 90 mm	16	0.68	1.5	110/90



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
305-125-110	UPP Fusion Entry Seal - 125x110mm diameter	5	0.91	2.01	110
305-125-110-TP	UPP Fusion Entry Seal - 125x110mm diameter	10	0.92	2.03	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
10-110-L	UPP End Cap 110mm	12	0.38	0.84	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)
ESI-CAP-012	Weld Pin Protection Cap	100	0.004	0.01



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
90-110F	UPP Flanged Termination 110mm	2	1.9	4.9	110
DN100M	UPP Coupling Flange 4" BSPT Male	1	2.44	5.38	4"
DN100M NPT	UPP Coupling Flange 4" NPT Male	1	2.44	5.38	4"
DN100F	UPP Coupling Flange 4" BSP Female	1	2.042	4.5	4"
DN100/2	UPP Gasket & Bolt Set for Coupling Flange DN 100	1	0.33	0.73	--



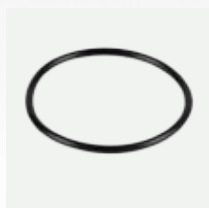
Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
91-110 BSPT	UPP Termination 110mm x 4" BSPT Male	4	2.93	6.46	110
91-110 NPT	UPP Termination 110mm x 4" NPT Male	4	2.93	6.46	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
92-110 BSPT	UPP Termination 110mm x 4" BSPT Female	6	1.94	4.28	110
92-110 NPT	UPP Termination 110mm x 4" NPT Female	6	1.94	4.28	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
12-110 BSPT	Compression Termination 110mm/4" BSPT diameter - BSPT Male	10	4	8.8	110

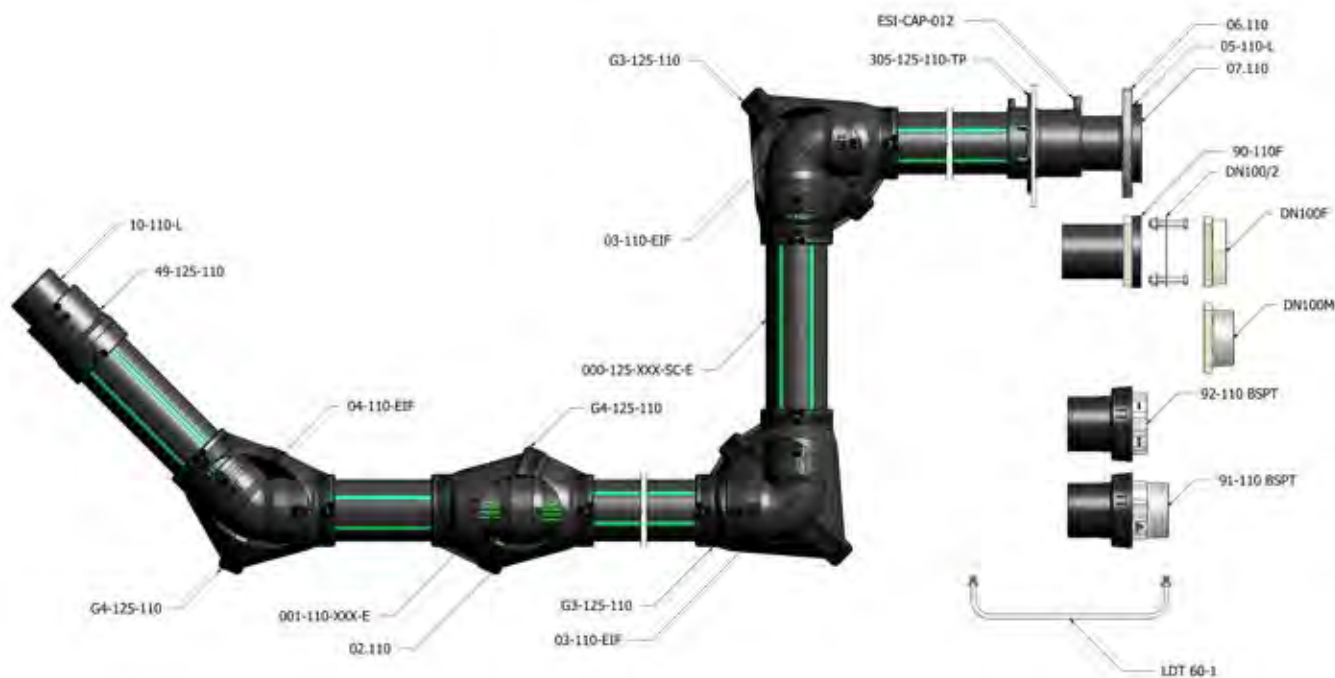


Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
408-043-001	O Ring NBR 89.5 x 3 for 12-110	1	0.002	0.004	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
CW-125-PIPE	Chain Wrench 125mm Pipe Max	1	1.2	2.6	90

# 125x110 mm Gemini Secondary Containment



Model	Description	Pack Size	Weight (kg)	Weight (lbs/ft)	Diameter Ø (mm)
000-125-006-SC-E	SC 125mm Outer Sleeve: 5.8m stick length	108m	1.89	1.27	125



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
G3-125-110	SC 125x110 UPP Gemini 90° Elbow	2	3.15	6.94	125



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
G4-125-110	SC 125x90 UPP Gemini 45° Elbow OR SC 125x90 UPP Gemini Inline Joint	2	2.14	4.71	125



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
49-125-110-TP	SC Welding Reducer 125/110mm with Test Port (pictured)	10	0.75	1.65	125/110
49-125-110	SC Welding Reducer 125/110mm	10	0.617	1.36	125/110







Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
305-125-110-TP	Electrofusor Seal 125 & 110 Couplers with Test Port (pictured)	10	0.92	2.03	110
305-125-110	Electrofusor Seal with 125 & 110 Couplers	5	0.91	2.01	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
ESI-CAP-012	Weld Pin Protection Cap	100	0.004	0.01	125/110

## Related Items

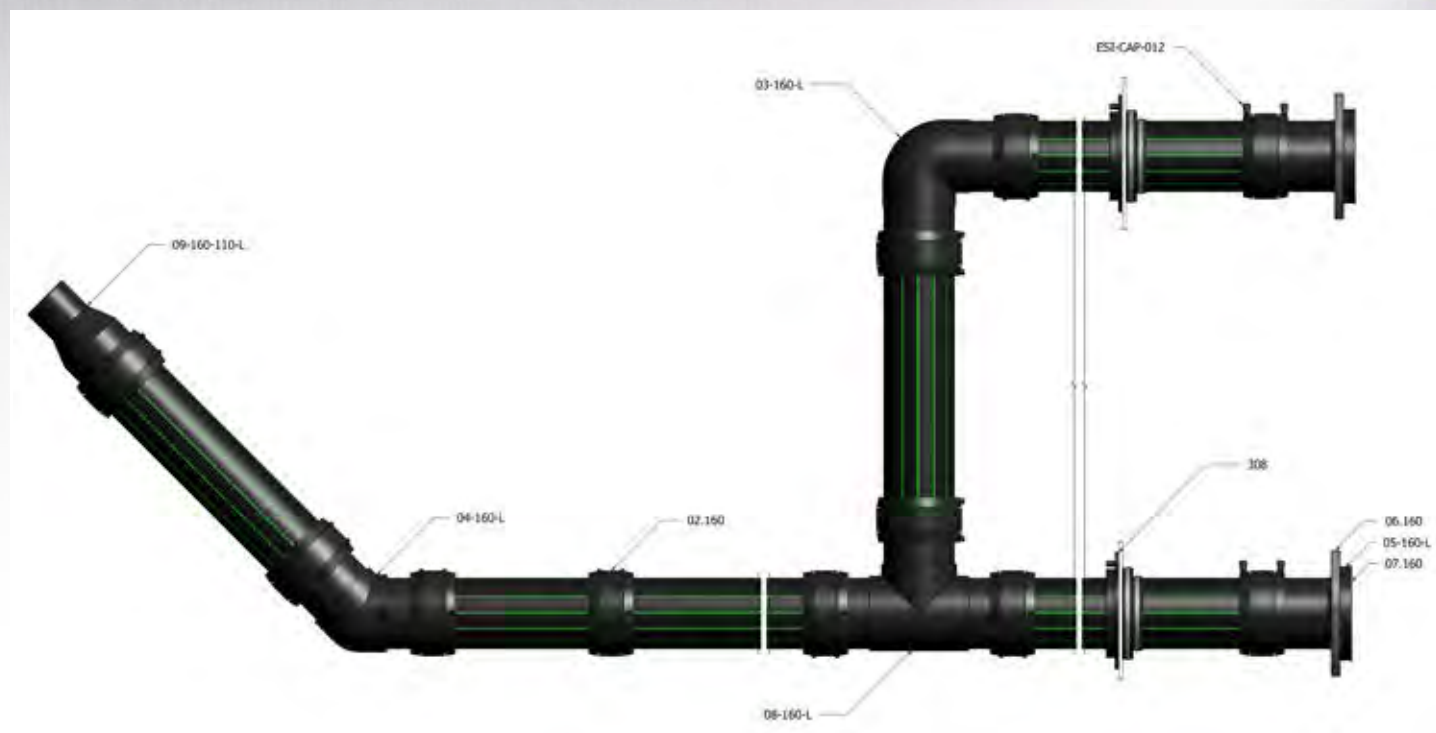


Model	Description	Pack Size	Weight (kg)	Weight (lbs)
LDT 60-1	Leak Detection Tube Kit - not for use with STB-100 product offering	1	0.05	0.11



Model	Description	Pack Size	Weight (kg)	Weight (lbs)
BPT-200	Leak Detection Tube Kit - for use with STB-100 product offering	1	0.05	0.11

# 160 mm 6" Primary



Model	Description	Pack Size	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
001-160-011	UPP Extra Pipe 160mm L=11.5M	11.5	5.49	3.69	160



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
02.160	UPP Fusion Coupler 160mm	4	0.53	1.17	160



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
03-160-L	UPP Plain Elbow 90° 160mm	5	3.13	6.9	160



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
04-160-L	UPP Plain Elbow 45° 160mm	6	1.4	3.09	160





Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
05-160-L	UPP Stub 160mm	6	1.66	3.66	160
06.160	UPP Flange Circular DN100 160mm	1	5.52	12.17	150/160
07.160	UPP Gasket 160mm for Stub	10	0.1	0.22	160



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
08-160-L	UPP Plain Tee Equal 160mm	3	0.84	1.85	160



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
09-160-110-L	UPP Plain Reducer 160x110mm	4	1.24	2.73	160/110

Duct System



# UPP 110mm 4"

## Duct System

With a thick and robust wall, the new duct is equally flexible and can be welded to electrofusion entry seals and other 110mm electrofusion fittings. The duct will provide a water tight chase for pipes or electrical cables when fully welded.

This product is for use as an electrical duct or gravel guard for fuel pipework.

### Highlights

The following in-house testing has been satisfactorily carried out on the duct:

- Electrofusion trials.
- Cold temperature bending tests at -29°C.
- Ball impact test at -29°C.
- Pressure testing at 2 bar for 1 week.
- Drop test of coil from 2 metres (6 feet).

### Order Information

Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
00-110-050-DUCT	110mm Flexible PE Duct Coil 50m	50	0.64	0.43	110

Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
02.110	UPP Fusion Coupler 110mm	15	0.36	0.79	110
02.125(SC)	UPP Fusion Coupler 125mm Secondary	25	0.192	0.42	125
09.125.110(SC)	UPP Reducer 125x110mm Secondary	40	0.146	0.32	125/110
10.125(SC)	UPP End Cap 125mm Secondary	10	0.14	0.31	125
49-125-110	UPP Terminating Reducer 125x110mm Secondary	10	0.62	1.36	125/110
49-125-110-TP	UPP Terminating Reducer 125x110mm Sec with Test Port	10	0.75	1.65	125/110
304-110-TP	UPP Fusion Entry Seal with Coupler 110mm with Test Port (No Boot)	10	0.44	0.97	110
305-R-1	UPP 305 - 5" Fusion Ring Extended Spigot	10	0.3	0.66	125
ESI-CAP-012	Weld Pin Protection Cap	100	0.004	0.01	--







# Flexible

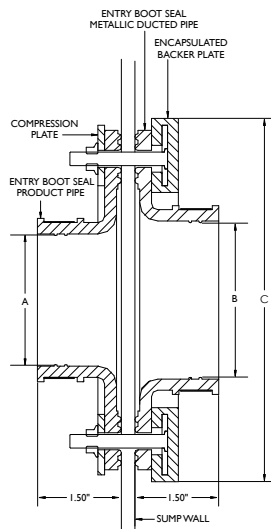
APT flexible entry boots are two-piece boots that double the sealing power of your entry boots. Stainless steel studs and corrosion resistant nuts and backing rings make for the highest quality entry boot. Franklin Fueling Systems offers a complete line of sizes for single and secondary containment pipe. Also available in a ducted boot version to accommodate the use of APT DCT-400 corrugated ducting for easy retractability.

## Highlights

- Designed to be used with APT product piping, the entry boots are also ideal for use with rigid piping and electrical conduits.
- Flexible entry boots available in sizes from 1/2" through 4".
- Ducted entry boots available in sizes from 1 1/2" through 2 1/2". APT offers these ducted entry boots in an air testable version for easy testing of the 4" corrugated ducting.
- Will work on round sumps of 36" or larger diameter.
- Boot size designations correspond directly to the pipe size being used.
- Any boot for a single wall pipe can be converted to a boot for a double wall pipe by simply removing the insert in the pipe opening.
- Entry boot can be serviced from inside the sump, eliminating the need for sump excavation.
- Made from oil- and gasoline-resistant nitrile rubber.

## Specifications

Model	A	B	C	Mtg. Hole Size	Mtg. Studs
FEB-075-SC	1.32"	1.50"	4.75"	2.00"	4
FEB-100-D	1.32"	1.50"	4.75"	2.00"	4
FEB-100-SC	1.70"	1.50"	4.75"	2.00"	4
FEB-150-D	1.75"	1.50"	6.75"	3.50"	8
FEB-175-SC	2.40"	1.50"	6.75"	3.50"	8
FEB-200-D	2.50"	1.50"	6.75"	3.50"	8
FEB-200-SC	2.88"	1.50"	6.75"	3.50"	8
FEB-300-R	3.50"	1.50"	6.75"	3.50"	8
FEB-400-R	4.50"	1.50"	8.00"	5.50"	10
FEB-400-F	4.94"	1.50"	8.00"	5.50"	10



## Order Information

Model	Description	Pack	UPP Pipe Diameter Ø (mm)	Hole Diameter (mm)	Hole Saw
FEB-075-SC	Flexible Entry Boot for 1" Electrical Conduit	1	32	50	HSCS2
FEB-100-D	Flexible Entry Boot for 3/4" and 1" Electrical Conduit	1	32	50	HSCS2
FEB-100-SC	Flexible Entry Boot for 40mm UPP	1	40	50	HSCS2
FEB-150-D	Flexible Entry Boot for 50mm UPP	1	50	88	HSP3
FEB-175-SC	Flexible Entry Boot for 63mm UPP	1	63	88	HSP3
FEB-200-D	Flexible Entry Boot for 63mm UPP	1	63	88	HSP3
FEB-200-SC	Flexible Entry Boot for 75mm UPP	1	75	88	HSP3
FEB-300-R	Flexible Entry Boot for 90mm UPP	1	90	88	HSP3
FEB-400-R	Flexible Entry Boot for 110mm UPP	1	110	139	HS5
FEB-400-F	Flexible Entry Boot for 125mm UPP	1	125	139	HS5

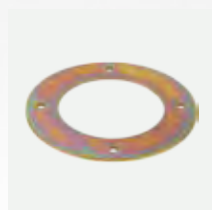


# PetroSeal

PetroSeal entry boots are two-piece boots for 50mm to 160mm UPP pipework. Using band clips and a backing ring to ensure a perfect fit and the highest quality entry boot.



Model	Description	Pack	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
PS3	PetroSeal for 50mm - 75mm UPP	20	0.62	1.38	50/63/75



Model	Description	Pack	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
PS3/R	Backing Ring for UPP PS3	1	0.25	0.55	n/a



Model	Description	Pack Size	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
SS 4	Band Clip 71mm - 95mm for UPP PS3	100	0.04	0.09	70 - 90



Model	Description	Pack	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
PS6	PetroSeal for 90mm - 160mm UPP	10	1.12	2.46	90/110/160



Model	Description	Pack	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
PS6/R	Backing Ring for UPP PS6	1	0.42	0.93	--



Model	Description	Pack	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
SS 5	Band Clip for UPP PS6 (76-127mm)	10	0.05	0.11	90/110



Model	Description	Pack	Weight (kg/m)	Weight (lbs/ft)	Diameter Ø (mm)
SS 8	Band Clip for PS6/308 (165-216mm) for 160mm	50	0.08	0.18	160





# 302-040

These electrofusion entry seals weld directly to the walls of polyethylene chambers or sumps. They have been specifically designed to reduce the number of fittings necessary to provide water tight seals between the underground tank sump/chamber and the UPP primary or secondary contained pipe and electrical conduit or duct. The nature of the seal means that after installation it becomes one with the sump, with zero leak paths, creating a 100% leak tight system. The seals are polyethylene based allowing electrofusion of UPP pipework systems directly to the penetration, negating the need for mechanical boots and creating a homogeneous structure of the sump, boot and pipe.

## Highlights

- Electrofusion seal for 40/32mm pipe.
- 302-040 seal complements 32mm pipe range.
- 40mm secondary (double wall) pipe welds directly to seal spigot using 02.40(SC) fusion coupler.
- 32mm primary (single wall) continues through penetration and into PE sump/chamber and is fusion sealed with 49.040.032 (ordered separately).

## Order Information

Model	Description	Pack Size	Weight (kg)	Weight (lb)	Diameter Ø (mm)
302-040	UPP Fusion Seal 40mm	45	0.1	0.22	40





# 303 Series

These electrofusion entry seals weld directly to the walls of polyethylene chambers or sumps. They have been specifically designed to reduce the number of fittings necessary to provide water tight seals between the underground tank sump/chamber and the UPP primary or secondary contained pipe and electrical conduit or duct. The nature of the seal means that after installation it becomes one with the sump, with zero leak paths, creating a 100% leak tight system. The seals are polyethylene based allowing electrofusion of UPP pipework systems directly to the penetration, negating the need for mechanical boots and creating a homogeneous structure of the sump, boot and pipe.

## Highlights

- Electrofusion seal with integrated coupler.
- Integrated coupler welds directly to UPP primary or secondary pipe and eliminates the need for a rubber boot or band clamp.
- Once welded to the chamber wall the seal is liquid tight for the life of the installation.
- Available for 50mm (1 1/2") single wall or double wall pipe and 63mm (2") single wall or double wall pipe.

## Order Information



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
303-050-EIF	UPP Fusion Seal 50mm with Integrated Coupler	20	0.21	0.46	50
303-063-EIF	UPP Fusion Seal 63mm with Integrated Coupler	20	0.24	0.53	63
303-075-EIF	UPP Fusion Seal 75mm with Integrated Coupler	20	0.24	0.53	75





# 304 and 305 Series

These electrofusion entry seals weld directly to the walls of polyethylene chambers or sumps. They have been specifically designed to reduce the number of fittings necessary to provide water tight seals between the underground tank sump/chamber and the UPP primary or secondary contained pipe and electrical conduit or duct. The nature of the seal means that after installation it becomes one with the sump, with zero leak paths, creating a 100% leak tight system. The seals are polyethylene based allowing electrofusion of UPP pipework systems directly to the penetration, negating the need for mechanical boots and creating a homogeneous structure of the sump, boot and pipe. The spigot on both sides of the 305 allow a second boot to be fitted to the outside as a gravel guard.

The seal is fully vacuum and pressure testable ensuring 100% leak free seals and sumps.

## Highlights

- Space saving, welded entry seal.
- For use with 50mm (1½"), 63mm (2"), 90mm (3") and 110mm (4") SW or DW pipe.
- With or without test port.

## Order Information



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
304-110-050-TP	Fusion Entry Seal with Secondary Coupler 110x50mm with Test Port	10	0.49	1.08	140
304-110-063-TP	Fusion Entry Seal with Secondary Coupler 110x63mm with Test Port	10	0.49	1.08	140
304-110-075-TP	Fusion Entry Seal with Secondary Coupler 110x75mm with Test Port (pictured)	10	0.44	0.97	140



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
304-110-090	UPP Fusion Entry Seal 110x90mm	5	0.56	1.23	90/110
304-110-090-TP	UPP Fusion Entry Seal 110x90mm with Test Port (pictured)	10	0.56	1.23	90/110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
304-110-TP	UPP Fusion Entry Seal with Coupler 110 with Test Port (No Boot)	10	0.44	0.97	110



## Order Information - continued



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
305	UPP 5" Fusion Seal for 50/63/75mm	10	0.44	0.97	50/63/75



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
305-R-1	UPP 5" Fusion Ring Extended	10	0.3	0.66	125



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
305-SB	UPP Seal Boot Kit for 50/63/75mm	20	0.2	0.44	50/63/75



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
305-090-SB	UPP Seal Boot Kit for UPP 90mm	10	0.16	0.35	90



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
305-110-SB	Seal Boot Kit for UPP 110mm	25	0.18	0.4	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
DCT-400-F	Seal Boot Kit for UPP 110mm	25	0.18	0.4	110



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
305 ELECTRICAL	UPP 5" Fusion Seal - Electrical Entry	10	0.5	1.1	12/18/ 32/41
305 ELECTRIC SB	Spare Boot 305 Electrical	20	0.3	0.66	12/18/ 32/40



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
305-125-110	UPP Fusion Entry Seal 125x110mm	5	0.91	2.01	110
305-125-110-TP	UPP Fusion Entry Seal 125x110mm with Test Port	10	0.92	2.03	110



# 308 Series

These electrofusion entry seals weld directly to the walls of polyethylene chambers or sumps. They have been specifically designed to reduce the number of fittings necessary to provide water tight seals between the underground tank sump/chamber and the UPP primary or secondary contained pipe and electrical conduit or duct. The nature of the seal means that after installation it becomes one with the sump, with zero leak paths, creating a 100% leak tight system. The seals are polyethylene based allowing electrofusion of UPP pipework systems directly to the penetration, negating the need for mechanical boots and creating a homogeneous structure of the sump, boot and pipe. The spigot on both sides of the 308 allow a second boot to be fitted to the outside as a gravel guard.

The seal is fully vacuum and pressure testable ensuring 100% leak free seals and sumps.

## Highlights

- Large diameter access.
- For use with 50mm (1½"), 63mm (2"), 75mm (SC), 90mm (3"), 110mm (4") and 160mm (6") pipe.
- With or without test port on boot.

## Order Information



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
308	UPP 8" Fusion Seal for 90/110/160mm	5	0.66	1.46	90/110/160



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
308-R	UPP 8" Fusion Ring	5	0.3	0.66	200



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
308-SB	UPP Seal Boot Kit for 90/110/160mm	20	0.34	0.75	90/110/160



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
308-075	UPP 8" Fusion Seal with Rubber Boot for 75/63/50mm	5	0.66	1.46	50/63/75



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
308-075-SB	UPP 8" Seal Boot Kit for 75/63/50mm	10	0.66	1.46	50/63/ 75





# PetroTite PE

The DC4830 is of bolted construction at the riser/base joint which will give a joint of the same quality as that to the tank for a fully watertight seal.

## Highlights

- Vacuum testable. Specific testing at critical points ensures a leak-proof installation.
- Tank access remains dry and protected.
- Compatible with all UPP electrofusion entry seals providing a welded UPP containment system, eliminating mechanical entry seal joints and leaks.
- The two-piece design enables easy access during installation while the compact design allows for economy in shipping.

## Specifications

Full set code: DC4830SB

40' container loading:

28 sets

Set shipping weight (approx.):

78Kg (171.6 lbs)

Set shipping dimensions:

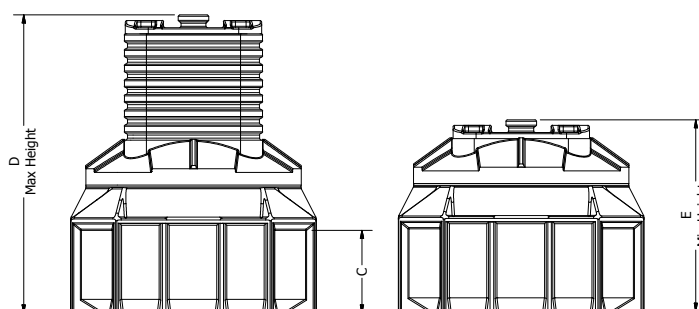
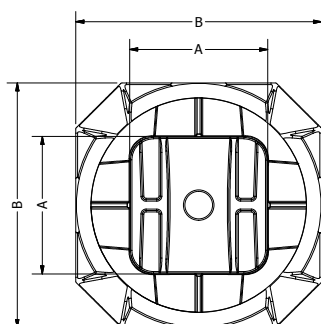
1370mm x 1370mm x 920mm (54" x 54" x 36")

## Order Information

Model	Description	Pack	Weight (kg)	Weight (lbs)	Neck Opening	Overall Height
DC4830SB	PetroTite PE Chamber 1.2 x 1.2 m	1	78	172	720mm x 720mm	max = 1668 min = 1072
DC4828 (BASE)	PetroTite PE Chamber BASE ONLY 1.2 x 1.2 m	1	49	107.8	--	740
DC4830SBG	Gasket Kit for DC4830SB - Base & Waist	1	3.04	6.7	--	--
DC4830-L *	PetroTite PE Chamber Lid	1	-	-	-	-
DC4830-R *	PetroTite PE Chamber Riser	1	-	-	-	-

Note: the gasket kit DC4830SBG is included with the DC4830SB

\* May require lead time. Consult factory for availability.



Model	A	B	C	D	E
DC4830SB	770	1370	460	1668	1072

Base suits square or round containment collars on tank:

Square □: 970 mm max (38.2")

Round Ø: 1150 mm max (45.3")







# Fusion Chambers

With the PetroTite Standard and Optimum fusion chambers the riser section electrofuses to the base, removing the need for multiple bolt holes and foam gaskets in this area, therefore dramatically reducing the number of potential leak paths.

With its simplified assembly, this electrofusion system also reduces the installation time. Welding of the chamber can be performed using UPP electrofusion equipment in approximately six minutes.

Once welded and cooled the base and riser of the LA models become one homogeneous unit, with no mechanical joints and no leak points. The chamber can then be vacuum tested to ensure that it is 100% leak-tight.

## Highlights

- With the PetroTite Standard and Optimum fusion chambers the riser electrofuses to the chamber base - no bolts, no leaks. Quick installation with no bolt holes.
- Vacuum testable. Specific testing at critical points ensures a leak-proof installation.
- Tank access remains dry and protected even in high water table areas.
- Compatible with all UPP electrofusion entry seals. Fully welded UPP system, eliminating mechanical joints and leaks.
- The two-piece design enables easy access during installation while the compact design allows for economy in shipping.

## Associated Items



Model	Description	Pack	Pack	Weight (kg)	Weight (lbs)
OCH-1400-H *	PE-Chambers Harness	n/a	1	2.23	4.9
LA-011-001 *	PE-Chambers Harness	n/a	1	2.23	4.9
OCH-1400-T *	Replacement toggles for OCH-Chambers	n/a	1	-	-
OCH-1400-BG *	Base Seal for Chambers	n/a	1	0.57	1.25
OCH-1400-G *	Lid Seal for OCH Chambers	n/a	1	0.14	0.3
LA-007-003 *	Lid Seal for LA Chambers	n/a	1	0.14	0.3
EF1-110V	EF1 welders 110 V	1 Full Kit	1	13.24	29.18
EF1-230V	EF1 welders 230 V	1 Full Kit	1	3.6	7.94

\* May require lead time. Consult factory for availability.



# PetroTite PE Fusion

The LA Chamber is available in Deep or Shallow risers.

## Specifications

### LA-002-001 / LA-002-002

40' container loading:	10 x 2 x 2 = 40 sets
Welding lead code:	EF1-C7A



## Order Information

Model	Description	Pack	Pack	Weight (kg)	Weight (lbs)	Neck Opening	Overall Height (mm)
LA-002-001	PE Chamber Deep Burial Set 1.1 x 1.1 m	1641 x 1176	1	75	165.3	780mm	max = 1641 min = 1310
LA-002-002	PE Chamber Shallow Burial Set 1.1 x 1.1 m	1279 x 1176	1	60	132.3	780mm	max = 1279 min = 831



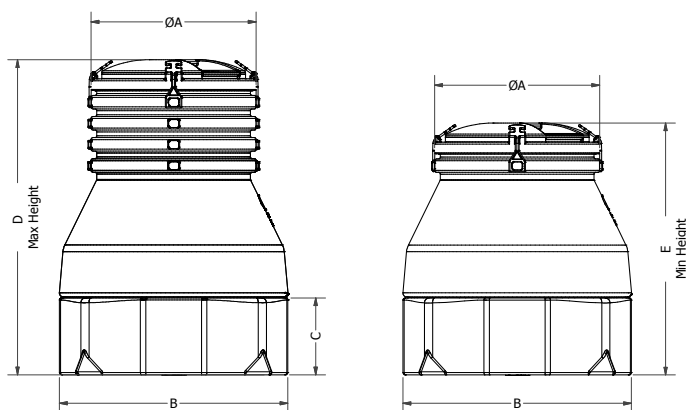
NOTE: Toggles OCH-1400-T included.

Please note a welding harness tool OCH-1400-H is required to install this product and must be ordered separately. This can be found under Associated Items on the menu.

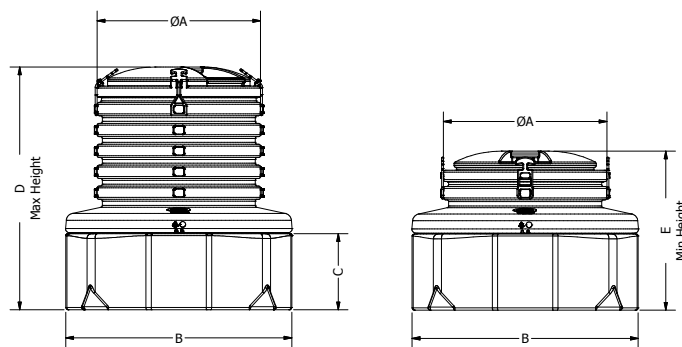
\* May require lead time. Consult factory for availability.

Model	Description	Pack	Weight (kg)	Weight (lbs)
LA-004-001 *	PE Chambers base	1	-	-
LA-005-001 *	PE Chambers Riser for Deep Burial	1	75	165.3
LA-006-002 *	PE Chambers Riser for Shallow Burial	1	60	132
LA-007-001 *	Waterproof PE Chambers cover	1	-	-

### LA-002-001



### LA-002-002



Model	A	B	C	D	E
LA-002-001	880	1176	400	1641	1310
LA-002-002	880	1176	400	1279	831

Base suits square or round containment collars on tank:

Square □: 970 mm max (38.2")

Round Ø: 1150 mm max (45.3")





# Optimum Fusion

The Optimum chamber is available with either Deep or Shallow bases, and both will allow for a very easy installation of pipework before the riser is fused into place.

## Specifications

### OCH-1400-DS / OCH-1400-SS

40' container loading:	16 sets
Welding lead code:	EF1-C7A

## Order Information

Model	Description	Pack	Pack	Weight (kg)	Weight (lbs)	Neck Opening	Overall Height (mm)
OCH-1400-D	PE Chamber Deep Burial 1400	1400 x 1616	1	92	203	980mm	max = 1616 min = 1176
OCH-1400-S	PE Chamber Shallow Burial 1400	1400 x 1266	1	80	176	980mm	max = 1266 min = 826



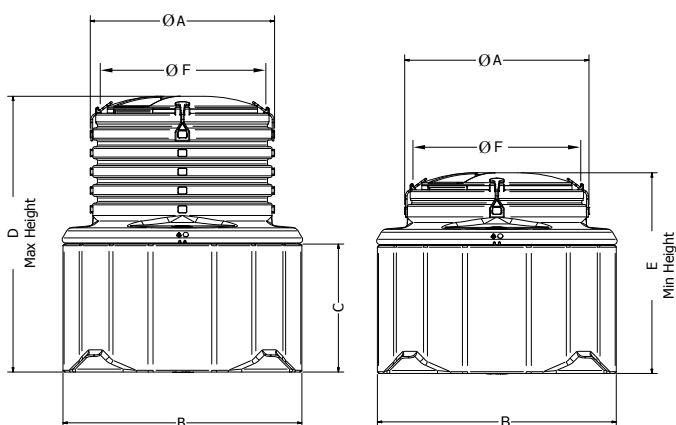
NOTE: Toggles OCH-1400-T included.

Please note a welding harness tool OCH-1400-H is required to install this product and must be ordered separately. This can be found under Associated Items on the menu.

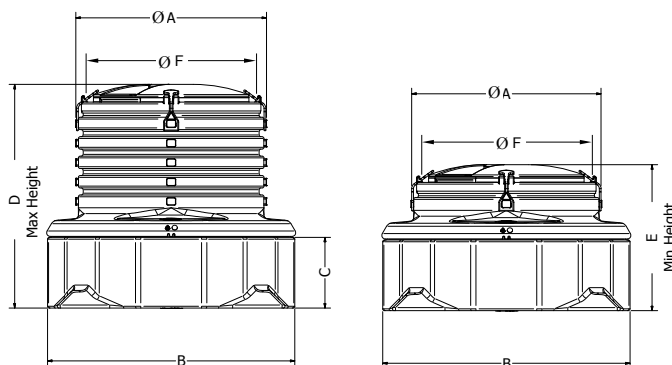
\* May require lead time. Consult factory for availability.

Model	Description	Pack	Weight (kg)	Weight (lbs)
OCH-1400-BD *	Deep Chambers base	1	92	203
OCH-1400-BS *	Shallow Chambers base	1	80	176
OCH-1400-RL *	Large opening Chambers Riser	1	-	-
OCH-1400-LW *	Waterproof Wide opening lid	1	-	-

## OCH-1400-D



## OCH-1400-S



Model	A	B	C	D	E	F
OCH-1400-D	1080	1400	750	1616	1176	1016
OCH-1400-S	1080	1400	400	1266	826	1016

Base suits square or round containment collars on tank:

Square  $\square$ : 1270 mm max (50")

Round  $\varnothing$ : 1380 mm max (54.3")





# Optimum Fusion Small Riser

The Optimum chamber is available with either Deep or Shallow bases, and both will allow for a very easy installation of pipework before the riser is fused into place.

## Specifications

### OCH-1400-DS / OCH-1400-SS

40' container loading:	16 sets
Welding lead code:	EF1-C7A

## Order Information

Model	Description	Pack	Pack	Weight (kg)	Weight (lbs)	Neck Opening	Overall Height (mm)
OCH-1400-DS	PE Chamber Deep/Small Bore	1400 x 1616	1	86	189	780mm	max = 1616 min = 1176
OCH-1400-SS	PE Chamber Shallow/Small Bore	1400 x 1266	1	80	176	780mm	max = 1266 min = 826



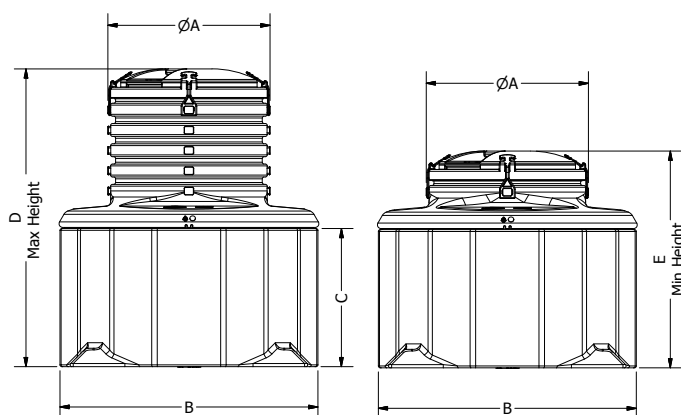
NOTE: Toggles OCH-1400-T included.

Please note a welding harness tool OCH-1400-H is required to install this product and must be ordered separately. This can be found under Associated Items on the menu.

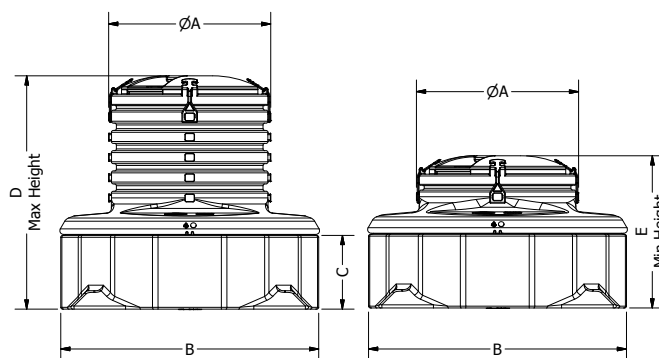
\* May require lead time. Consult factory for availability.

Model	Description	Pack	Weight (kg)	Weight (lbs)
OCH-1400-BD *	Deep Chambers base	1	92	203
OCH-1400-BS *	Shallow Chambers base	1	80	176
OCH-1400-RS *	Small opening Chambers Riser	1	-	-
LA-007-001 *	Waterproof PE Chambers cover	1	-	-

### OCH-1400-DS



### OCH-1400-SS



Model	A	B	C	D	F
OCH-1400-DS	880	1400	750	1616	1176
OCH-1400-SS	880	1400	400	1266	826

Base suits square or round containment collars on tank:

Square □: 1270 mm max (50")

Round Ø: 1380 mm max (54.3")





# Compatibility Chart

	Model	Medium Depth Sump	Deep Depth Sump	Frame	Stabiliser Bar
Benet					
3K Series	P0783, P0784, P0785, P0786, P0831, P0828, P0829, P0830, P0951, P0982	LMM-2010	LMD-2010	Included	SBK-2
Compaq					
Legend	MD6	LMM-4111	LMD-4111	Included	SBK-25
Dresser Wayne					
Vista™	3/V590D, 3/V591D, 3/V595D, 3/V490D, 3/V490D/U, 3/V590D/U, 3/V595D/U, 3/V399D, 3/V390D, 3/V390D/U, V395P/U, V590P/U, V590D/U, V395D/U, 1/V395D/U, 1/V590D/U, 1/V590D, X1/V590D, V395D, X/V395D, V590D, X/V590D	LMM-4111	LMD-4111	Included	SBK-25
Ovation™	R11, R13, B12/R22, B23	DS3915	DS3915	Included	SBK-3
Global Star	H Frame	DS4620	DS4620	DS4620-F-WGHF	DS-SBA-20
	CXX-11 1 product, CXX-21 2 product, CXX-31 3 product	DS3818	DS3818	DS3818-F-CX31	DS-SBA-18
	CXX-44 4 product	DS5518	DS5518	DS5518-F-CX44	DS-SBA-18
3/G Prefix	3/G2201D, 3/G2221D/GHK, 3/G2227D/GJKR, 3/G3387D, 3/G3388, 3/G3389D, 3/G3384D	LMM-2715	LMD-2715	Included	SBK-3
	3/G3397D, 3/G3399D, 3G/3390D, 3/G3490D, 3/G3498D	LMM-4115	LMD-4115	Included	SBK-3
Gilbarco™					
Encore™	550/500, 500S	DS3617 ENCORE	DS3617 ENCORE	Included	SBK-3
SK700	2/1/2 - 2 hose	DS3420	DS3420	DS3420-F-SK72	DS-SBA-20
	4/2/4 - 4 hose	DS3420	DS3420	DS3420-F-SK74	DS-SBA-20
	6/3/6 - 6 hose	DS4620	DS4620	DS4620-F-SK76	DS-SBA-20
	8/4/8 - 8 hose	DS4620	DS4620	DS4620-F-SK78	DS-SBA-20
	10/5/10 - 10 hose	DS5518	DS5518	DS5518-F-SK710	DS-SBA-20
Advantage™	1 and 2 Grade	LMM-2915	LMD-2915	Not Required	SBK-3
	3 and 4 Grade	LMM-4115	LMD-4115	Included	SBK-3
	Quad/Dual	LMM-2915	LMD-2915	Included	SBK-3
	X+0 (36" frame)	LMM-2915	LMD-2915	Included	SBK-3
China	TC3202-202, TB3202-202	DS4620	DS4620	DS4620-F-3202	DS-SBA-20
Neotec					
M-5200	M5225	LMM-2010	LMD-2010	Included	SBK-2
Petrotech					
	EURO 4000B DBL PMP	DS3617	DS3617		DS-SB17.1
	EURO 4000B SNGL PMP	DS3617	DS3617		DS-SB17.1
	P5000 3P6H	DS5518	DS5518		DS-SBA-18
Prowalco					
Salesmaker	Salesmaker 10 Hose	DS5518	DS5518		DS-SBA-18
	SM1080W	DS3617	DS3617		DS-SB17.1
	SM1011WHV	LM(M/D)-2615	LMD-2615		SBK-3
	SM1020, SM1020WHV, SM1021WHV, SM1921WHV STD, SM1021W, SM1021WHVSIDOF, SM1020WHVSIDOF, SM1020WHVSIDOSL, SM1040W, SM1040WHD, SM1041WHD, SM1041W, SM1010, SM1010WHV, SM1020WSIDOF, SM1021WSIDOF, SM1031W	LM(M/D)-2715	LMD-2715		SBK-3
	SM1060W	LMM-4115	LMD-4115		SBK-3
	SM1061W	LMMM-4115	LMMD-4115		SBK-3
Somo					
Multi Ex	4S, 4S2H, 6S	LMM-4111	LMD-4111	Included	SBK-25
Tatsuno					
Sunny XE	Sunny XE Wide Body	DS4620	DS4620	DS4620-F-TSXE-W	DS-SBA-20
Sunny XE	Suny XE Narrow Body	DS3420	DS3420	DS3420-F-TSXE-N	DS-SBA-20
Sunny - X	3 product	LMM-4111	LMD-4111	Included	SBK-25
Multi - X	3 product	LMM-4111	LMD-4111	Included	SBK-25
Tokheim™					
Quantium™	410T	DS4620	DS4620	DS4620-F-Q410	DS-SBA-20
	510T 2 product	DS3420	DS3420	DS3420-F-Q5T2	DS-SBA-20
	510T 3 product	DS4620	DS4620	DS4620-F-Q5T3	DS-SBA-20
	510T 4 product, 2 column	DS4620	DS4620	DS4620-F-Q5T4	DS-SBA-20
	510T 4 product, 3 column	DS4620	DS4620	DS4620-F-Q5T4-3	DS-SBA-20
	510T 4 product, 4 column	DS4620	DS4620	DS4620-F-Q5T4-4	DS-SBA-20
	510T 5 product	DS5518	DS5518	DS5518-F-Q5T5	DS-SBA-18
Q	Q430S	LMM-2811	LMD-2811		
	Q330S	LMM-2407	LMD-2407		
	Q230T	LMM-2010	LMD-2010		

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Quantum™ and Tokheim™ are trademarks of Tokheim Holding B.V.





# Nexus Series™

## Under Dispenser Containment Sumps

UPP™ brand Nexus Series™ under dispenser containment sumps (UDCs) combine a completely optimised containment space with the latest in double wall piping technology to deliver a truly state-of-the-art containment space. By incorporating an advanced UDC with UPP™ double wall termination fittings and Gemini™ secondary containment pipe fittings, you get superior watertight containment with faster and safer installations.

### Highlights

#### Redefining Under Dispenser Containment

Franklin Fueling Systems has totally re-imagined under dispenser containment with the UPP™ brand Nexus Series™ line of under dispenser containment. We've completely optimised the containment space making installation faster, easier, more secure and removed potential leak paths for superior watertight containment.

#### Eliminate Potential Leak Points

The Nexus Series employs the use of Gemini™ Secondary Contained Fittings under the containment to reduce the amount of penetrations. Instead of penetrating both sides of the containment, only a single seal is needed per line.

- Drastically reduces the amount of containment penetrations and potential leak paths on a site.
- Electrofusion welded entry seals ensure liquid and vapour tight seals between pipework and containment.
- Gemini™ secondary contained fittings are both EN and UL approved and proven in the field.

#### A Fully Optimised Use of Space

Space in under dispenser containment is at a premium. The Nexus Series™ provides an ideal, fully optimised containment space with enough room to work freely, yet also minimises the overall size of the containment.

- A single stabiliser bar spans the length of the sump with preset U-Bolt holes for fast and accurate shear valve installation.
- The optimised containment space brings all connections within arm's reach of a service contractor.
- The integrated angled side wall provides an ideal surface for electrical connection penetrations.

#### Secondary Contained Protection to Grade

The Nexus Series™ was specifically designed to incorporate UPP™ brand double wall termination fittings which provide secondary contained pipe protection all the way to grade level.

- Eliminates potential leak paths and minimises installation time with a single-piece termination fitting.
- The single-piece construction of double wall termination fittings allow for minimal welds, cleaning and scraping operations during installation.
- Easy access to the integrated test port makes integrity testing of the secondary contained system simple.

#### Integrated Monitoring Features

Two integrated monitoring sensor reservoirs molded into the under dispenser containment make placement of liquid sensors simple and consistent.

- The dual recessed sensor reservoirs allow any liquid to pool quickly and provide prompt indication.
- Reservoirs are appropriately sized to fit either a smaller liquid detecting sensor or a larger discriminating sensor.
- Integrated channels run the length of the containment bottom, guiding any liquid directly towards the sensor.

#### A Versatile Frame for Any Application

The adjustable frame height feature provides installation versatility and ensures a uniform installation. This eliminates the use of scrap metal or wood to hold the under dispenser containment in place.

- The powder coated finish provides long-lasting corrosion protection with five height adjustment points.
- Integrated pipe spacers eliminate the need for in-field pipe spacing materials such as foam or wood while also stabilising pipe and fittings during welding.
- Integrated tabs allow for support and easy anchor into concrete.



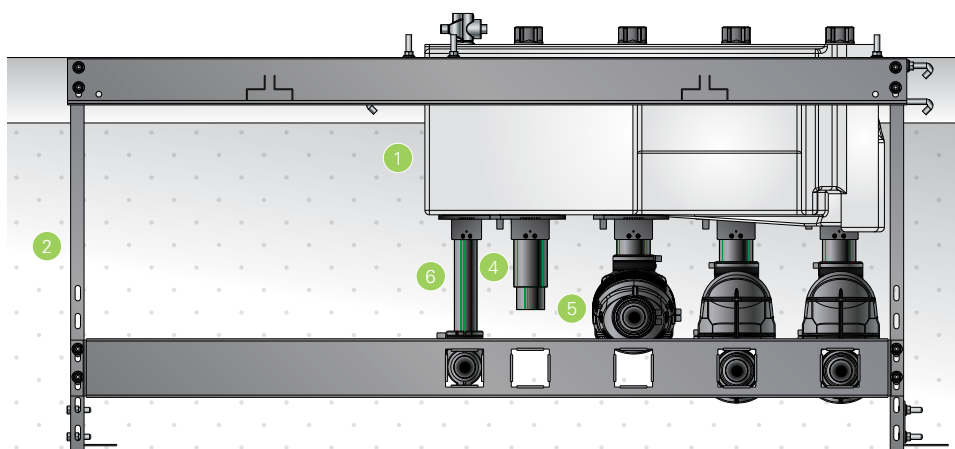
## Specifications

- Shallow pan material: HDPE
- Frame material: Powder coated steel
- Stabiliser bar material: Galvanised steel
- Designed for specific use with UPP™ brand double wall termination fittings and Gemini™ secondary containment pipe fittings (tees and 90° elbows).
- Field height adjustable between 514mm and 629 mm (20.24" and 24.75").

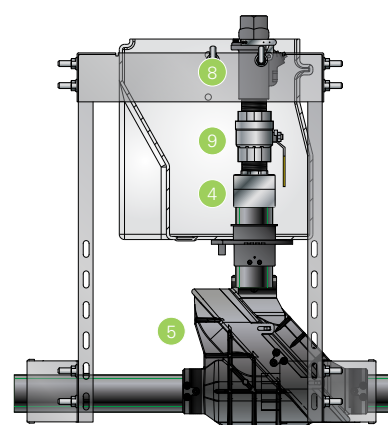
## Components

Shown in various stages of installation for reference purposes.

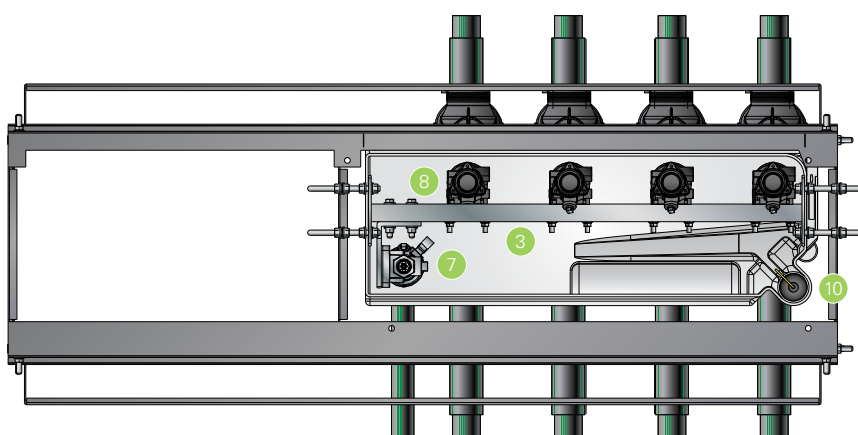
- 1 Shallow pan (Nexus Series™)
- 2 Frame (Nexus Series™)
- 3 Stabiliser bar (Nexus Series™)
- 4 Double wall termination fittings
- 5 Gemini™ tee (or 90° elbow)
- 6 Stage II vapour recovery line
- 7 Vapour shear valve
- 8 Product shear valve
- 9 Ball valve
- 10 Liquid sensor



Front View



Side View

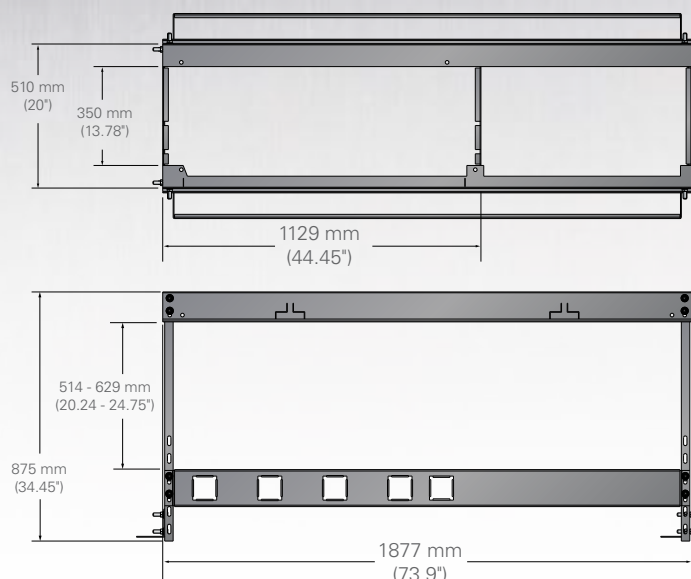


Top View

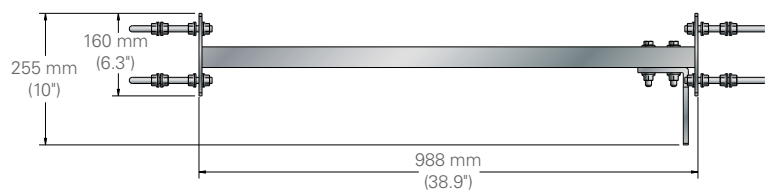


## Specifications - Continued

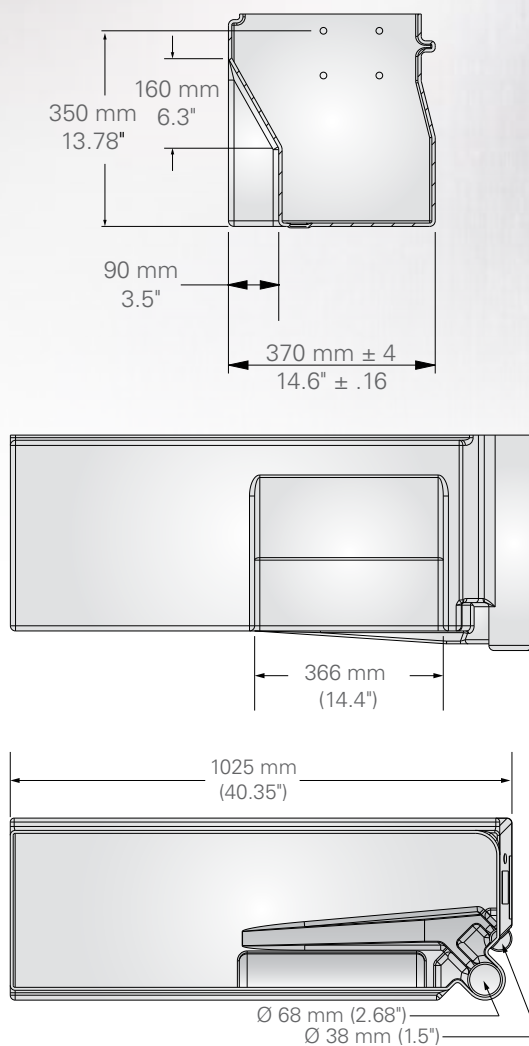
### Frame Dimensions



### Stabiliser Bar Kit Dimensions



### Shallow Pan Dimensions



## Order Information

Model	Description	Pack Size	Weight (kg)	Weight (lbs)
DP-Q510-48-S	Nexus Series™ shallow pan for use with Tokheim™ four-product dispenser	1	8.5	18.7
DP-Q510-48-F	Nexus Series™ frame for use with Tokheim™ four-product dispenser	1	35	77.2
DP-Q510-48-SBK	Nexus Series™ stabiliser bar kit for use with Tokheim™ four-product dispenser	1	10	22
66213801	U-Bolt kit for stabiliser bar*	1	0.1	0.2

\*Order (1) one U-Bolt kit per shear valve.





# Large Mouth

The large mouth dispenser sump modular design provides versatility and ease of installation. There are six polyethylene bases in three lengths and two depths. These bases have a large 22" wide by 24", 36" or 48" long openings, easing the installation of entry boots and piping connections. The ribbed riser can be cut down in 3" increments in the field to achieve proper pipe slopes with respect to grade. A variety of large mouth tops (LMTs) are available to match nearly every dispenser model. The lids are corrosion-resistant painted steel to which shear valves and dispenser frames are mounted.

## Highlights

- 22" wide by 24", 36" or 48" long opening on base gives plenty of room for boot, fitting and monitor installation.
- Available in medium and deep burial depths to properly maintain slope.
- The base widens to a spacious 26" where entry boots and pipe connections are made.
- Height modifications are accomplished by trimming off the base at the ribs.
- Stabiliser bar kits (SBKs) mount into welded strut channels for shear valve mounting. One SBK is required for each shear valve and must be purchased separately.

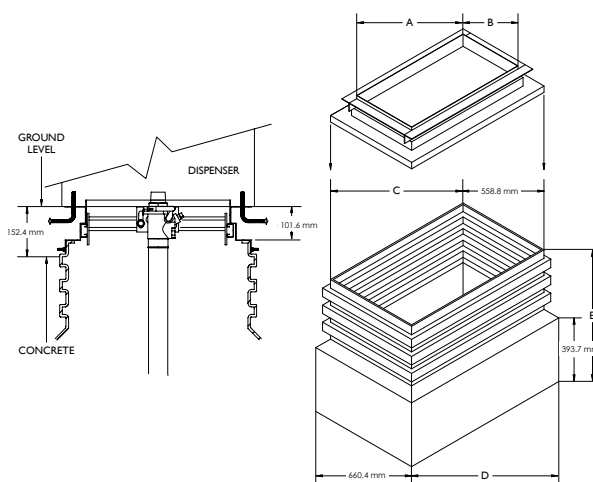
## Order Information

Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Overall Base Dimensions
LM(M/D)-2010	Medium/Deep Dispenser Sump 20" x 10"	1	34.9	77	508 x 254
LM(M/D)-2915	Medium/Deep Dispenser Sump 29" x 15"	1	38.5	85	737 x 381
LM(M/D)-4111	Medium/Deep Dispenser Sump 41" x 11"	1	46.7	103	1042 x 280
LM(M/D)-4115	Medium/Deep Dispenser Sump 41" x 15"	1	50.3	111	1042 x 381

Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Length (mm)*
SBK-2	Stabiliser Bar Kit for 2010	1	2.8	6.2	209 - 269
SBK-25	Stabiliser Bar Kit for 4111	1	2.9	6.3	343 - 514
SBK-3	Stabiliser Bar Kit for 2915 & 4115	1	3.3	7.4	257 - 352

\* Measures to outside edge of the stabiliser bar kit.

Model	A	B	C	D	E	
					(M)	(D)
LM(M/D)-2010	520.7	254	609.6	711.2	711.2	1092.2
LM(M/D)-2915	755.65	400.05	914.4	1016	711.2	1092.2
LM(M/D)-4111	1054.1	279.4	1219.2	1320.8	711.2	1092.2
LM(M/D)-4115	1054.1	400.05	1219.2	1320.8	711.2	1092.2



# Wayne™ Ovation™

Our dispenser sumps, with patented welded entry boot and piping systems, give you what you need; years of worry-free, maintenance free performance. All our UPP sumps are manufactured from virgin polyethylene with a steel painted frame and galvanised steel stabiliser bar and they are compatible with the UPP electrofusion entry system.

## Highlights

- Rigid and thick one-piece PE body with reinforced contoured structure.
- No Leak Paths - one system when using UPP Electrofusion(EIF) Entry Seals.
- Conduits can enter the dispenser through mounting frame without penetrating the sump wall.
- Integrated rain lip option.
- Large clear entry seal face.
- The PetroTite Ribbed Dispenser Sumps neck can be trimmed to adjust sump burial depth.
- Stabiliser bars feature pre-drilled shear valve mounting plate and spring channel nuts.

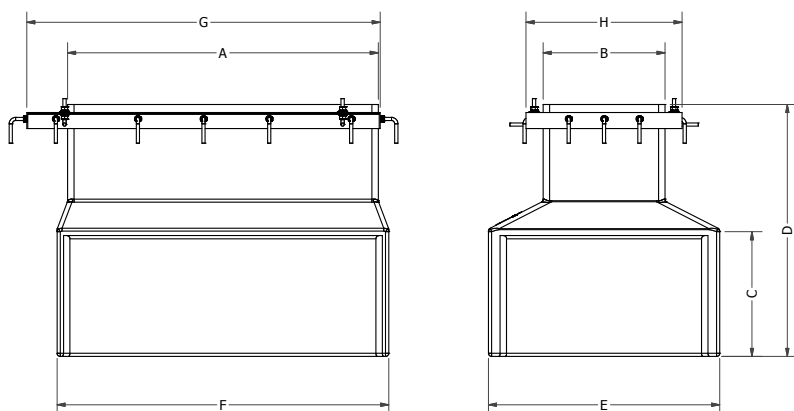
## Order Information



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Overall Base Dimensions
DS3915	Deep Dispenser Sump 39" x 15" for Wayne™ (*) Ovation™ (*)	1	30	66.1	1031 x 719



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Length (mm)*
SBK-25	Stabiliser Bar Kit for DS3915	1	2.9	6.3	343 - 514



Model	A	B	C	D	E	F	G	H
DS3915	966	379	389	782	719	1031	1096	485
DS3617 ENCORE	966	379	389	782	719	1031	1096	485





# UPP Dispenser Sumps

UPP dispenser sumps feature a rigid 8mm thick HDPE body with reinforced contoured structure and integrated rain lip allowing them to stand up to harsh forecourt conditions such as ground movement or hydrostatic pressure. The neck of UPP dispenser sumps can be trimmed to adjust for varying sump burial depths ensuring an efficient installation. In addition, the durable steel UPP dispenser sump top frames feature conduit entry points which allow conduit to enter the dispenser through the top frame without having to penetrate the sump wall. The galvanized steel stabilizer bars feature pre-drilled shear valve mount plates and spring channel nuts for quick mounting. UPP electrofusion entry boots allow you to connect UPP pipework directly to the dispenser sump, creating a solid, one-piece construction and eliminating potential leak paths.

## Highlights

- Rigid and thick one-piece PE body with reinforced contoured structure.
- No Leak Paths - one system when using UPP Electrofusion(EIF) Entry Seals.
- Conduits can enter the dispenser through mounting frame without penetrating the sump wall.
- Integrated rain lip option.
- Large clear entry seal face.
- The PetroTite Ribbed Dispenser Sumps neck can be trimmed to adjust sump burial depth.
- Stabiliser bars feature pre-drilled shear valve mounting plate and spring channel nuts.

## Order Information



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Overall Base Dimensions
DS3617 ENCORE	Deep Dispenser Sump 36" x 17" for Gilbarco™ (* Encore™ (*))	1	36.6	80.7	996 x 719



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Length (mm)*
SBK-3	Stabiliser Bar Kit for DS3617 ENCORE	1	3.3	7.4	257 - 352



## Order Information - continued



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Overall Base Dimensions
DS3818	Deep Dispenser Sump 38" x 18"	1	34.4	75.8	1034 x 880
DS5518	Deep Dispenser Sump 55" x 18"	1	42.4	93.5	1397 x 880



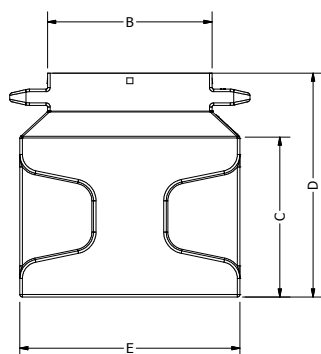
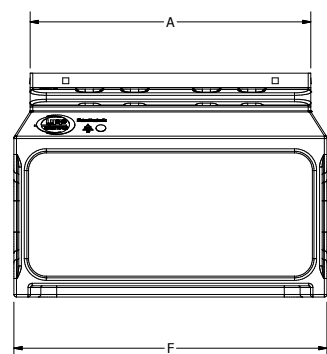
Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Length (mm)*
DS-SBA-18	18" Wide Access Stabiliser Bar Kit	1	4	8.8	483 x 140



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Overall Base Dimensions
DS3420	PE Wide Access Sumps 34" x 20"	1	27.7	61.1	967 x 742
DS4620	PE Wide Access Sumps 46" x 20"	1	32.6	71.9	1273 x 742



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Length (mm)*
DS-SBA-20	20" Wide Access Stabiliser Bar Kit	1	4	8.8	496 x 140



Model	A	B	C	D	E	F
DS3818	1034	495	610	785	880	1034
DS5518	1397	495	610	785	880	1397
DS3420	867	508	500	700	680	967
DS4620	1173	508	500	700	680	1273



# Mounting Frames

## Order Information



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Neck Opening
DS3420-F-SK72	Gilbarco™ (*) SK700 2 Hose Mounting Frame	1	10	22	34" x 20"
DS3420-F-SK74	Gilbarco™ (*) SK700 4 Hose Mounting Frame	1	10.7	23.6	34" x 20"
DS4620-F-SK76	Gilbarco™ (*) SK700 6 Hose Mounting Frame	1	11	24.3	46" x 20"
DS4620-F-SK78	Gilbarco™ (*) SK700 8 Hose Mounting Frame	1	14.4	31.7	46" x 20"
DS4620-F-Q410	Gilbarco™ (*) Encore™ 510 Mounting Frame	1	11.8	26	46" x 20"
DS5518-F-SK710	Gilbarco™ (*) Encore™ 510 Mounting Frame	1	15.8	34.8	46" x 20"



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Neck Opening
DS3420-F-Q5T2	Tokheim™ (*) Q500 2 product Mounting Frame	1	7.6	16.8	34" x 20"
DS4620-F-Q5T3	Tokheim™ (*) Q500 3 product Mounting Frame	1	10.7	23.6	46" x 20"
DS4620-F-Q5T4	Tokheim™ (*) Q500 4 product Mounting Frame	1	12.1	26.7	46" x 20"
DS5518-F-Q5T5	Tokheim™ (*) Q500 5 product Mounting Frame	1	14.7	32.4	55" x 18"



Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Neck Opening
DS3818-F-CX31	Wayne™ (*) CX.11, 21, 31 Mounting Frame	1	8.2	18.1	38" x 18"
DS4620-F-WGHF	Wayne™ (*) Global Mounting Frame	1	12	26.5	46" x 20"
DS5518-F-CX44	Wayne™ (*) CX44 Mounting Frame	1	12.8	28.2	55" x 18"

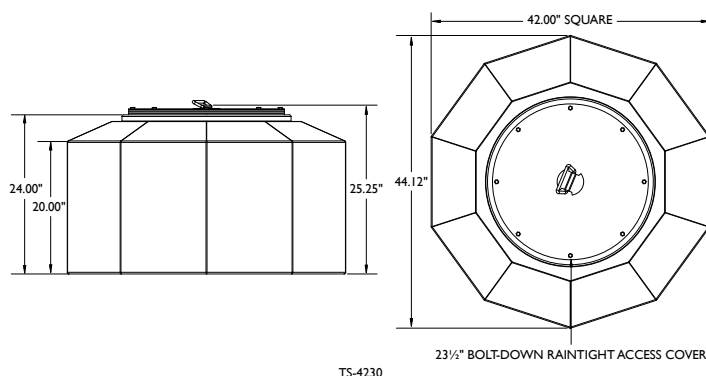
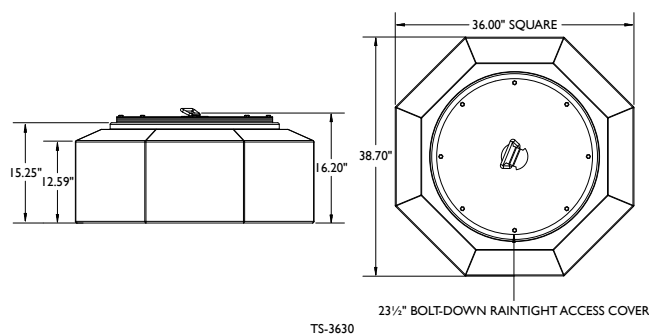
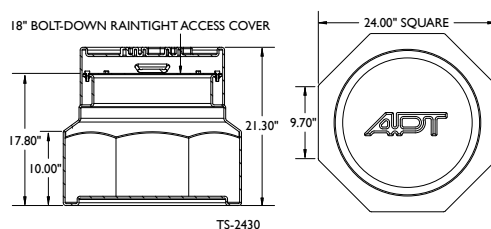
# Below Grade



APT's TS-2430, TS-3630 and TS-4230 tank sumps are ideally suited for low cost retro fits and shallow burial applications. The TS-2430 is ideal for line branching points and for containing piping splices. The 36" or 42" bases provide ample space for submersibles and fittings. The bolt-on gasket-lid combination fits economically under a 30" manway.

## Highlights

- TS-2430 utilizes an 18" bolt-down watertight lid.
- TS-3630 and TS-4230 utilize a 23½" bolt-down watertight lid.
- High density polyethylene construction is durable and chemical-resistant.
- All TS-Series sumps allow fittings to be installed with ease, while tapered design allows for installation under an economical 30" manway.
- Bolt-down cover can be easily removed for routine inspections.
- One-piece design enhances water resistance.

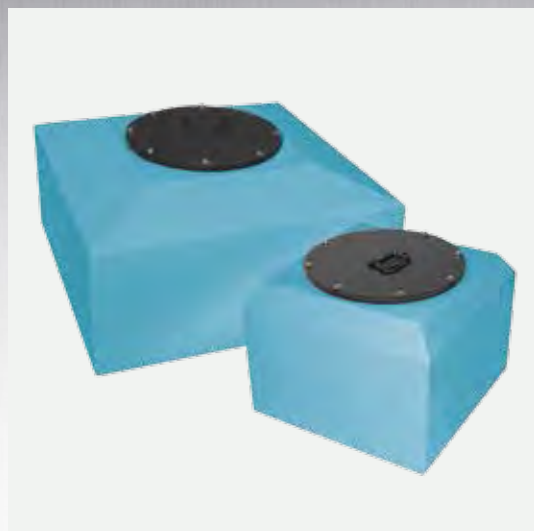


## Order Information

Model	Description
TS-2430	Transition sump, shallow burial, 24" base, fits under a 30" manway
TS-3630	Tank sump, shallow burial, 36" base, fits under a 30" manway
TS-4230	Tank sump, medium burial, 42" base, fits under a 30" manway
TS-KIT	TS-3630/4230 retro fit kit, replacement lid assembly for screw-on polyethylene lids
999-855-55	Replacement gasket

# Below Grade Intermediate

The APT intermediate piping sump is a multifunctional component in the underground flexible piping system. The IPS-2424 and IPS-3636 can be used as a containment sump for fittings when utilizing a tee between dispenser islands, for contained piping splices, or for line branching points. These sumps are ideal for a low point sensor chamber between USTs and dispenser islands where required.

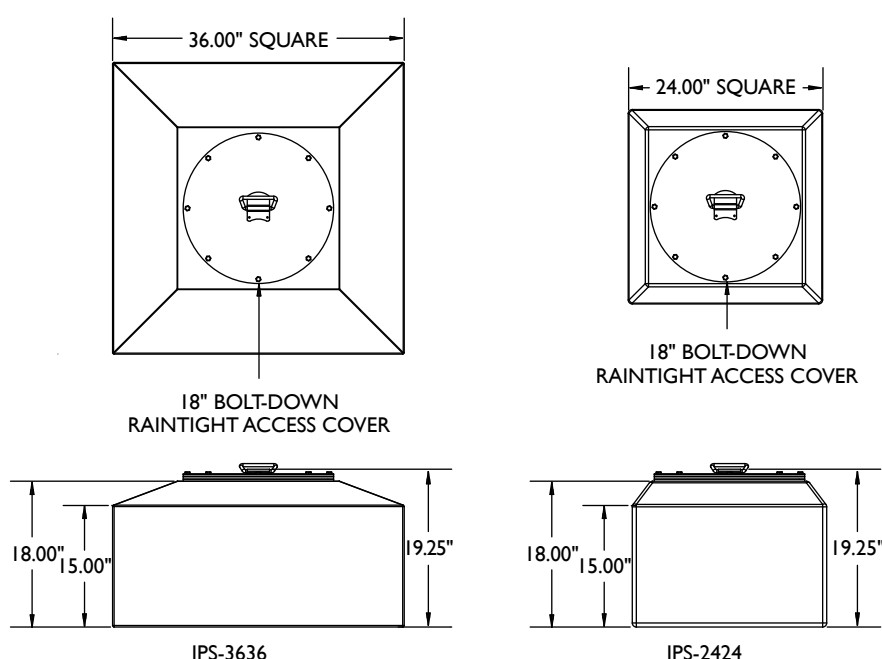


## Highlights

- 18" bolt-down watertight lid.
- Design is engineered to be multi-functional.
- Sumps are constructed from high density polyethylene, making them durable and chemical-resistant.
- Two sizes available, 24" × 24" square and 36" × 36" square.
- Tapered top allows both intermediate piping sumps to fit securely under a 24" manway.
- One-piece design ensures environmental security and water resistance.

## Order Information

Model	Description
IPS-2424	Intermediate piping sump, 24" × 24", fits under a 24" manway
IPS-3636	Intermediate piping sump, 36" × 36", fits under a 36" manway
999-855-54	Replacement gasket
735-101-02	Replacement cover





# Grade Level

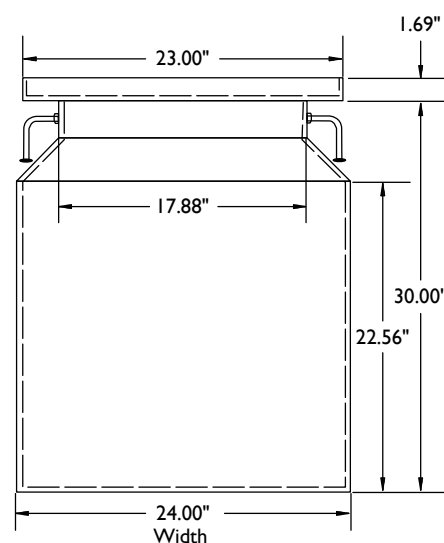
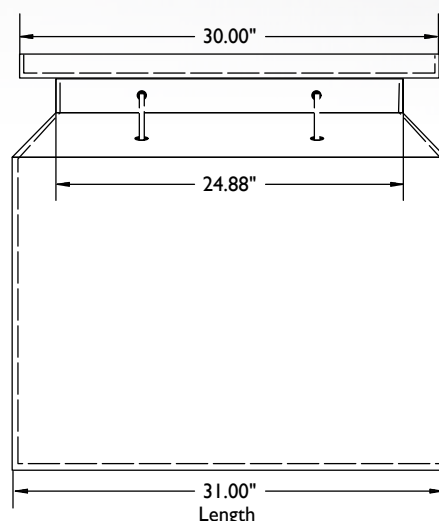
The AST above or below ground transition sump is the practical, environmentally sound solution for remote dispensing from aboveground storage tanks. Steel and flexible piping enter the sump through the APT flexible entry boot. Inside the sump, the steel piping easily connects to flexible piping for a fueltight, continuous run to dispensers or an intermediate sump.

## Highlights

- Transition sumps help meet environmental regulations by isolating metal piping from the soil.
- Transition sumps can be installed either inside or outside containment dikes.
- 30" burial depth allows the transition sump to be used as the system low point for leak detection.
- Load rated composite cover.
- Flexible entry boot provides a fueltight and watertight seal around the metal piping and flexible piping as it enters the sump lid and sidewall.
- H-20 load rating. Pipe entries installed in lids negate the load rating.

## Order Information

Model	Description
AST-2922	Aboveground storage tank transition sump
999-855-53	Replacement gasket
252-029-23	Replacement AST-2922 lid, grey
IP-400-B	Inspection replacement port, FEB style with replacement well cap





# Grade Level Sleeve

The transition sleeve is the practical, environmentally sound solution for above and below ground supply of generator or boiler applications from remote storage tanks. Steel piping enters the sleeve through APT special flexible double entry boots. It is an economical alternative that allows a straightforward installation with no special tools.



## Highlights

- Transition sleeve provides the transition for above and below ground level.
- Transition sleeve provides the transition of APT pipe to steel pipe.
- May be additionally used for through-wall installation, above or below ground.
- Low cost alternative to the AST-2922 transition sump.
- Designed to utilize APT dual entry and ducted boots.
- Split design allows aboveground spill or leak containment. Ready access for maintenance or replacement of joint hardware and pipe.
- The transition sleeve can accommodate for fill/feed generator applications.

## Specifications

### TSL-005 Includes

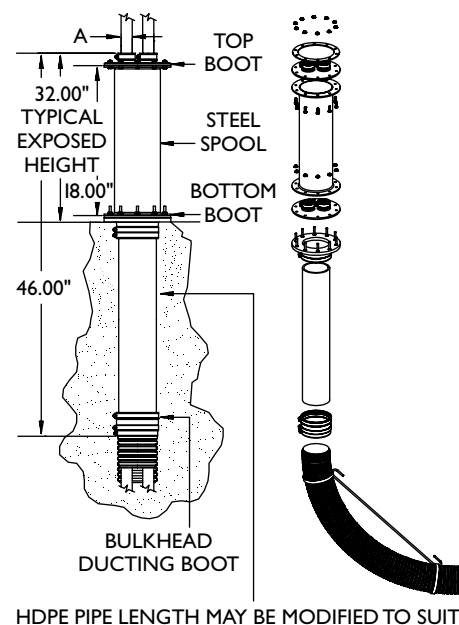
- Transition sleeve spool, 5" ID.
- HDPE pipe, 18" length, 4" ID.
- Bulkhead ducting boot.
- Hose clamps.
- Blue corrugated ducting, 48" length.
- 1/4" formed steel rod.
- Installation instructions.

### Transition Sleeve Top Boot Assembly

Model	Description	A	Mtg. Hole Size	Mtg. Studs
TST-100-D	Transition sleeve top flexible entry boot, 1" steel pipe	1.32" or 1.70"	5.50"	10

### Transition Sleeve Bottom Boot Assembly

Model	Description	A	Mtg. Hole Size	Mtg. Studs
TSB-100-D	Transition sleeve bottom flexible entry boot, 1" steel pipe	1.32" or 1.70"	5.50"	10
TSB-100-SC	Transition sleeve bottom flexible entry boot, 1" steel pipe	1.70"	5.50"	10



## Order Information

Model	Description
TSL-005	Transition sleeve (top and bottom boot required, sold separately)
TST-100-D	Transition sleeve top flexible entry boot, 1" steel pipe
TSB-100-D	Transition sleeve bottom flexible entry boot for XP-100-D or 1" conduit
TSB-100-SC	Transition sleeve bottom flexible entry boot for XP-100-SC

\* Note: The transition sleeve along with the top and bottom entry boot should be ordered separately.





# Wall Sleeve

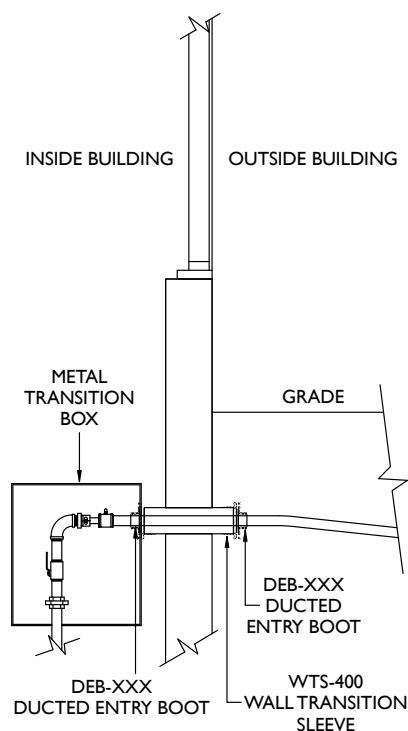
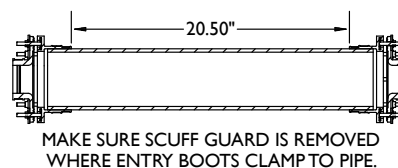
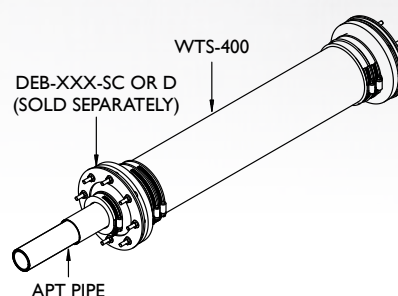
The wall transition sleeve is a practical, environmentally sound solution for below ground generator or boiler applications that pass through the walls of buildings or concrete structures. Piping enters the sleeve through APT's special flexible entry boots. The wall transition sleeve is an economical alternative that allows a straightforward installation with no tools.

## Highlights

- Transition sleeve used for through-wall installation.
- Low cost alternative.
- Designed to utilize APT ducted entry and single entry flexible boots.
- The transition sleeve can accommodate for fill/feed generator applications.

## Order Information

Model	Description
WTS-400	Wall transition sleeve (ducted entry boot required, sold separately)



# Welders

The EF1 UPP electrofusion unit from Franklin Fueling Systems works with all UPP electrofusion fittings and products. UPP welders feature state-of-the-art electronics which allow for a more compact, user-friendly design.



## Highlights

- The EF1 welder is IP65 rated and has been tested around the world under exacting site conditions and has proved to be an easy to use, efficient and invaluable addition to the tool box. Its robust construction, dust proof features and enhanced graphic feed-back of the electrofusion progress, offer real benefit to the operator.
- The unit's improved self diagnostic capabilities also ensure increased reliability and tolerance in a variety of climatic conditions. It comes complete with welding leads in a lightweight carry bag for the 230V and a robust case for the 110V.
- The EF1 unit automatically recognises the fitting when connected with the correct welding cable. It also checks the ambient temperature using a sensor positioned in the housing and adjusts the energy level to balance with the local environment. It then applies the correct amount of energy for a successful weld.

## Specifications

### CE Certified

Supplied Cables			
Primary Cable - Standard	Red	4mm	5.5m long
Secondary Containment Cable	Green	2mm	5.5m long
Bridging Cable (For multiple welds)	Red	4mm	5.5m long
Fusion Chamber Cable	White	2.3mm	5.5m long
Power Supply Cable	4m (13')		

### Welding Unit Specifications

Welding Unit Specifications		
UPP Stock Code Number	EF1-230V	EF1-110V
Operating Voltage	230V AC Supply	110V AC Supply
Operating Frequency	45 to 65Hz	
Operating Temperature	-15° to 45°C (5°F to 113°F)	
Shipping Dimensions	460mm x 210mm x 210mm	420mm x 340mm x 80mm
Shipping Weight	3.6Kg (7.9lb)	13.24 Kg (29.18lb)

This unit is designed to weld UPP pipes and fittings only\* and must not be used in conjunction with any other Polyethylene pipework systems. \*The UPP systems welder uses a constant current welding system unlike other systems which use constant voltage. Non-UPP fittings may not be fused correctly with a risk of leakage. Information shown is accurate at the time of going to print. Franklin Fueling Systems reserves the right to change product specifications at any time.



## Order Information

Model	Description	Pack Size	Kg	Lbs.	Colour
EF1-110V	EF1 Welder Set 110V	1 Full Kit	13.24	29.18	Orange
EF1-230V	EF1 Welder Set 230V	1 Full Kit	3.6	7.94	Orange

## Cables & Transformer

Model	Description	Pack Size	Kg	Lbs.	Colour
EF1-PC 4MM	Welding Cable - Primary 4amp, 4mm Pins Red	1	0.48	1.06	Orange / Red
EF1-SC 2MM	Welding Cable - Secondary 5amp, 2mm Pins Green	1	0.48	1.06	Green
EF1-C7A	Welding Cable - Chamber 7amp White	1	0.48	1.06	White
EF1-PC 2MM	Welding Cable - Primary 2mm Red	1	0.48	1.06	Orange / Red
EF1-BC 4MM	Bridging Cable - Primary 4amp, 4mm Pins Red	1	0.02	0.04	Orange / Red
EW/BC/SC	Welding Cable - Secondary for E3, E4 & E7 welders only Green	1	0.5	1.1	Green
EW1/C	Welding Cable - Primary 2mm for E3, E4 & E7 welders only Red	1	0.44	0.97	Orange
EW TRANS/3.3KVA	Welding Transformer 115v In ~ 230V Out	1	18.96	41.81	Blue





# Vacuum Testing

The System Integrity Testing Kit from Franklin Fueling Systems allows tightness testing of spill containers, tank access chambers and dispenser sumps to ensure air-tight seals and peace of mind. Specific testing at critical points during the installation process ensures that all components are installed correctly and that the complete installation is leak proof, preventing the need for an expensive rework.

## Highlights

- A Vacuum test unit which can be set to indicate the relationship between the on-site water table level and the level of the tank or dispenser sumps. The pressure test setting allows for low pressure testing with an additional setting specifically for spill containers.
- 5.5 metre connection tubes between the test unit and the test lid allow the test unit to be placed outside zone 2 areas during testing.
- Transparent test lids (sold separately) with close cell foam gaskets are available in a variety of sizes. These allow full visibility of areas being tested to observe gaskets, penetration seals etc. for easy visual identification of leak points. All lids come supplied in a tough black carry bag.
- Easy to use.
- Clear and concise instructions.
- Easy to read vacuum gauge.
- Adjustable depth of test to match water table level.
- Built-in spark arrester.
- Appropriate for use on a variety of systems.
- Variety of test lids available with carry bags.

## Order Information

### Vacuum Testing Units

Model	Description	Pack Size	Weight (Kg)	Weight (Lbs.)
VTU-110V	Vacuum Testing Unit 110V	1	17.5	38.58
VTU-230V	Vacuum Testing Unit 230V	1	17.5	38.58

### Chamber Test Lids

Model	Description	Pack Size	Kg	Lbs.	For use with
VTL-560 DIA	Chamber Test Lid Assy 560 dia	1	3	6.6	
VTL-850 DIA	Chamber Test Lid Assy 850 dia	1	8	17.63	OCH-1400-DS, OCH-1400-SS, LA-002-001 and LA-002-002 risers
VTL-1200 DIA	Chamber Test Lid Assy 1200 dia	1	15.5	34.17	DC4830, LA-002-001 and LA-002-002 bases
VTL-1350 DIA	Chamber Test Lid Assy 1350 dia	1	21	46.2	OCH-1400-D and OCH-1400-S risers, plus OCH bases.
VTL-800x800	Sump Test Lid Assy 800x800	1	9	19.84	DC4830 riser
VTL-1250X600	Sump Test Lid Assy 1250x600	1	11	24.25	DS4417
VTL-1470X600	Sump Test Lid Assy 1470x600	1	14	30.8	DS3420, DS4620, DS3818 and DS5518



# UPP Tool Box



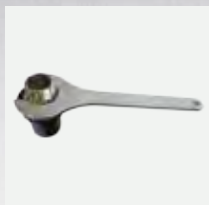
Model	Description	Pack Size	Kg	Lbs.	Colour	Item Type
IB 1000 (EX EW)	Tool Box UPP with Tools No Welder - please order separately	1 Full Kit	58	127.87	Black	Misc

## Contents:

Rotary Scraper 25-110mm 1 - 4"	SCR-025-110	1
Pipe Cutter 50 - 125mm Pipe	P.CUT	1
Cutting Wheel for P.CUT Pipe Cutter	CW1	1
Holesaw 51mm for SB2.C01, SB2-CO1-5, FEB-075-SC, FEB-100-D, FEB-100-SC & 302 Entry Seals	HSCS2	1
Holesaw 102mm for 303 & FEB-300-R Entry Seals	HS3	1
Holesaw 140mm for 305 Entry Seal	HS5	1
Holesaw 160mm for 305-125-110 Entry Seals	HS6	1
Holesaw 83mm for PS3	HSP3	1
Holesaw 168mm for PS6	HSP6	1
Mandrel for All Holesaws	MAN1	1
Angled Clamp for straight & elbow joints	CLAMP (A)	1
Straight Clamp for straight joints (32 - 110mm)	CLAMP (S)	2
Clamp for UPP Fusion Seals 302	302-CLAMP	1
Clamp for UPP Fusion Seals 303	303-CLAMP	1
Clamp for UPP Fusion Seals 304	304-CLAMP	1
Clamp for UPP Fusion Seals 305	305-CLAMP-1	1
Clamp for UPP Fusion Seals 305-125-110	305-EXT-CLAMP	1
Plate Spanner 62A/F 91-063	91-063-TOOL	1
Plate Spanner 67A/F 92-063	92-063-TOOL	1
Chain Wrench 125mm Pipe Max	CW-125-PIPE	1
Mallet	MAL1	1
Flexishaft Driver	F.DRIVER	1
Hand Held Scraper 1 1/2"	SCR.HAR	1
Blades for Hand Held Scraper (8 Blades)	SCR.HAR(B)	1
Pipe Marker Pen	MARKER	1
UPP Installation Manual	-	1



# UPP Tools



Model	Description	Unit	Kg	Lbs.	For Sizes
91-050-TOOL	Plate spanner tool for use with 50mm male 90 Series termination fittings	1	0.8	1.7	All Male 50mm sizes
92-050-TOOL	Plate spanner tool for use with 50mm female 90 Series termination fittings	1	0.9	1.9	All Female 50mm sizes
91-063-TOOL	Plate spanner tool for use with 63mm male 90 Series termination fittings	1	1.1	2.4	All Male 63mm sizes
92-063-TOOL	Plate spanner tool for use with 63mm female 90 Series termination fittings	1	1.2	2.6	All Female 63mm sizes
CW-125-PIPE	Chain wrench tool for use with male and female 90mm and 110mm sizes, 125mm Pipe Max	1	1.2	2.6	All Male and Female 90mm and 110mm sizes



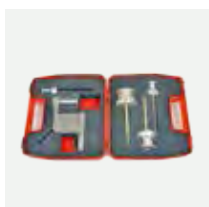
Model	Description	Unit	Kg	Lbs.	Material
P.CUT SMALL	UPP Pipe Cutter 32 - 50mm	1	0.76	1.68	Aluminium & Steel
CW2	Cutting Wheel for P.CUT SMALL	1	0.005	0.01	Steel
P.CUT	UPP Pipe Cutter 50 - 110mm	1	1.84	4.05	Aluminium & Steel
P.CUT MED	UPP Pipe Cutter 110 - 160mm	1	2.19	4.82	Aluminium & Steel
CW1	Cutting Wheel for P.CUT & P.CUT MED	1	0.016	0.04	Steel



Model	Description	Unit	Kg	Lbs.	Material
SCR-025-110	UPP Rotary Scraper 25-110mm 1" - 4"	1	1.48	3.26	Aluminium & Steel
SCR-090-225	UPP Rotary Scraper 90-225mm 3" - 9"	1	3.57	7.87	Aluminium & Steel
SCR-BLADE-025-225	UPP Rotary Scraper Spare Blade 1" - 9"	1	0.01	0.02	Steel



Model	Description	Unit	Kg	Lbs.	Material
SCR.HAR	UPP Hand Scraper	1	0.08	0.18	Plastic & Steel
SCR.HAR(B)	Blades for SCR.HAR (8 Blades)	2	0.04	0.09	Steel



Model	Description	Pack Size	Weight (Kg)	Weight (Lbs.)
SCR.K(1)	Scraper Kit for Legacy UPP 50/63/90/110mm	1	4.98	10.98
SCR.B	Replacement Blade for SCR.K(1) Shallow Cut	1	0.014	0.03
SCR.K(1)-E	Scraper Kit for current UPP 50/63/90/110mm	1	4.98	10.98
SCR.K(1) SHAFT	Drive Shaft for UPP SCR.K(1)	1	0.232	0.51
SCR.M110-FILL	Scraper Mandrill for 110mm FILLPIPE	1	1.14	2.5
MDR.K-E	Mandrill Kit for Legacy Scraper	1	3	6.61
MDR.063-E	Mandrel for 63mm Pipe (SDR13.6)	1	0.48	1.1
MDR.090-E	Mandrel for 90mm Pipe (SDR13.6)	1	0.77	1.7
MDR.110-E	Mandrel for 110mm Pipe (SDR13.6)	1	1.09	2.4





Model	Description	Unit	Kg	Lbs.	Material
CLAMP (S)	UPP Pipe Clamp - Straight 32 - 110mm	1	1.98	4.37	Metal
CLAMP (A)	UPP Pipe Clamp - Angled 32 - 110mm	1	2.57	5.67	Metal
302-CLAMP	Clamp for UPP Fusion Seals 302	1	0.61	1.34	Steel
303-CLAMP	Clamp for UPP Fusion Seals 303	1	1.6	3.53	Steel
304-CLAMP	Clamp for UPP Fusion Seals 304	1	1.94	4.28	Steel
305-CLAMP-1	Clamp for UPP Fusion Seals 305	1	1.74	3.84	Steel
305-EXT-CLAMP	Clamp for UPP Fusion Seals 305-125-110	1	2.19	4.83	Steel
308-CLAMP	Clamp for UPP Fusion Seals 308	1	2.22	4.89	Steel



Model	Description	Unit	Kg	Lbs.	Material
TH50	Towing Head for UPP Primary Pipe 50mm	1	0.96	2.12	Aluminium & Steel
TH63SC	Mud Tight Towing Head for UPP SC Pipe 63x50mm	1	1.82	4.01	Aluminium & Steel
TH75SC	Mud Tight Towing Head for UPP SC Pipe 75x63mm	1	2.92	6.44	Aluminium & Steel
TH50-SDR8	Towing Head for UPP UL & EN Pipe 50mm	1	0.62	1.37	Aluminium & Steel
TH63SC-SDR8	Towing Head for UPP UL & EN Pipe 63mm	1	1.49	3.28	Aluminium & Steel



Model	Description	Unit	Kg	Lbs.	Material
MAN1	Mandrill for all Holesaws	1	0.22	0.49	Steel
HSCS2	Holesaw 51mm for FEB-075-SC, FEB-100-D, FEB-100-SC & 302 Entry Seals	1	0.12	0.26	Steel
HSP3	Holesaw 83mm for PS3, FEB-150-D, FEB-175-SC, FEB-200-D & FEB-200-SC Entry Seals	1	0.25	0.55	Steel
HS 3	Holesaw 102mm for 303 & FEB-300-R Entry Seals	1	0.4	0.88	Steel
HS075	Holesaw 105mm for FEB-D-075-1 Entry Seal	1	0.46	1.01	Steel
HS 5	Holesaw 140mm for FEB-400-R, FEB-400-F, FEB-D-110-1 & 305 Entry Seals	1	0.76	1.68	Steel
HS 6	Holesaw 160mm for 305-125-110 Entry Seals	1	0.87	1.92	Steel
HSP6	Holesaw 168mm for PS6 Entry Seals	1	0.9	1.98	Steel
HS 8	Holesaw 210mm for 308's Entry Seals	1	1.36	3	Steel

Model	Description	Unit	Kg	Lbs.	Material
MAL1	Wooden Mallet	1	0.22	0.49	Wood
MARKER	Pipe Marker	1	0.02	0.04	Marker Pen
F.DRIVER	Flexishaft Driver for band clamps - 8mm	1	0.148	0.33	Plastic & metal
D/TAPE	UPP Warning Tape - 100m roll	100m	0.02/m	0.04/ft	PE/Stainless Steel
FLEXCON *	Flexible Connector in stainless steel	1	--	--	Stainless Steel
EMERY	Emery Cloth 50 Metre Roll ONLY	1	--	--	--
FEB-110-TOOL	GRP Entry Fitting Wrench 125mm	1	0.32	0.71	--

## Seal / Holesaw / Clamp Matrix

Seal Code	Holesaw	Diameter (mm)	Diameter (inches)	Clamp	Clamp Colour
302-040	HSCS2	51	2	302-CLAMP	Orange
303-050-EIF	HS3	102	4	303-CLAMP	Blue
303-063-EIF	HS3	102	4	303-CLAMP	Blue
303-075-EIF	HS3	102	4	303-CLAMP	Blue
304-110-050-TP	HS5	140	5½	304-CLAMP	Yellow
304-110-063-TP	HS5	140	5½	304-CLAMP	Yellow
304-110-075-TP	HS5	140	5½	304-CLAMP	Yellow
304-110-090	HS5	140	5½	304-CLAMP	Yellow
304-110-090-TP	HS5	140	5½	304-CLAMP	Yellow
305	HS5	140	5½	305-CLAMP-1	Green
305-R-1	HS5	140	5½	305-CLAMP-1	Green
305-125-110	HS6	160	6 5/16	305-EXT-CLAMP	Red
305-125-110-TP	HS6	160	6 5/16	305-EXT-CLAMP	Red
308	HS8	210	8 ¼	308-CLAMP	Silver
308-R	HS8	210	8 ¼	308-CLAMP	Silver

PS3	HSP3	83	3¾
PS6	HSP6	168	6 5/8
FEB-D-075-1	HS075	105	4 1/8
FEB-D-110-1	HS5	140	5½
FEB-S-125	HS5	140	5½

Seal Code	Holesaw	Diameter (mm)	Diameter (inches)
FEB-075-SC	HSCS2	51	2
FEB-100-D	HSCS2	51	2
FEB-100-SC	HSCS2	51	2
FEB-150-D	HSP3	83	3½
FEB-175-SC	HSP3	83	3½
FEB-200-D	HSP3	83	3½
FEB-200-SC	HSP3	83	3½
FEB-300-R	HS3	83	3½
FEB-400-R	HS5	140	5½
FEB-400-F	HS5	140	5½



302-CLAMP



303-CLAMP



304-CLAMP



305-CLAMP-1



305-EXT-CLAMP



308-CLAMP



# Service Station Hardware

Our service station hardware product line provides the most comprehensive and environmentally friendly system of tank trim and hardware available. Biofuel system components ensure compatibility with evolving fuel needs while the large breadth of products provides the right solution for any application.



## Highlights



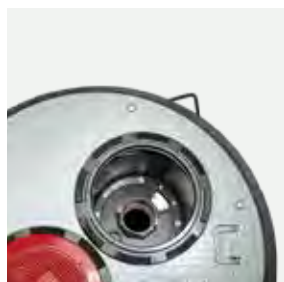
### Complete Package

Get each hardware system component from a single manufacturer that is known throughout the world for providing quality products.



### Biofuel Compatible

As renewable fuel regulations continue to expand, customer demand for biofuel compatible equipment continues to increase. Franklin provides a solid biofuel compatible offering of hardware and is committed to the continuous improvement of product designs to allow for compatibility.



### Spill Containment

A wide array of spill containment products designed and manufactured to the highest standard to ensure total protection where you need it the most. Whether you need single wall or double wall, manual or electronic interstitial monitoring, Franklin has the solution.



# 300 4" Vapour Check Valve Adapter

The vapour check valve adapter permits coupling to the vapour return line from the underground tank in dual point systems. The poppet design seals off the vapour path when not coupled.

## Highlights

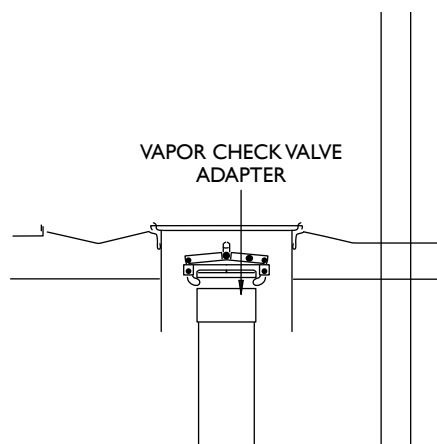
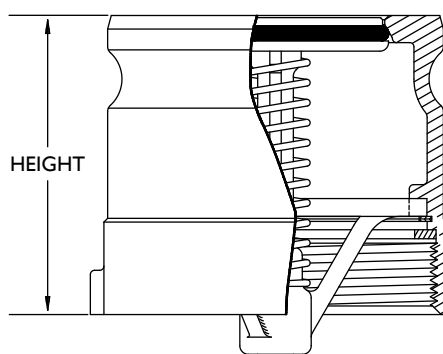
- Body constructed of anodised aluminium or brass.
- Fits all 4" vapour recovery elbows.

## Order Information

Model	Hose Size	Riser Thread	Height		Body Material	Weight	
			mm	In.		Kg	Lbs.
30030001	4"	3" NPSM	139	5.44	Anodised aluminium	1.95	4.3
30030031*	4"	3" BSPP	139	5.44	Anodised aluminium	1.95	4.3
30021001	4"	4" NPSM	107	4.19	Anodised aluminium	1.95	4.3
30021031*	4"	4" BSPP	107	4.19	Anodised aluminium	1.95	4.3

Model	Description
77020102	3" replacement gasket for 300300
77020103	4" replacement gasket for 300210

\* BSPP thread on the 30030031 and 30021031, NPSM thread on others.



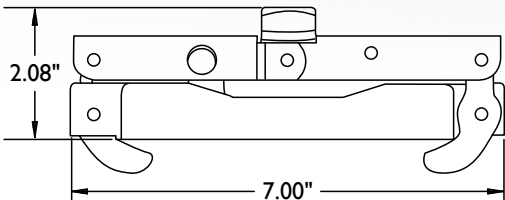


# 304 4" Vapour Adapter Cap

The vapour cap secures the vapour check valve preventing dust and debris buildup. It also protects the vapour poppet of a dual point fill system. Orange in colour to indicate vapour recovery lines and lockable to prevent misuse, our vapour cap fits all 4" male quick couplings. The cam action creates a solid push down and pull up movement for fast, easy removal and replacement of cap.

## Highlights

- Two body styles to choose from, glass-filled nylon or epoxy coated aluminium.
- Padlock capability.
- Iron-copper infiltrated 4" cams.
- Corrosion-resistant steel hatches.
- Orange body for easy identification.



304-200-01

## Order Information

Model	Material	Weight	
		Kg	Lbs.
30420001	Glass filled nylon	0.53	1.19
30430101	Epoxy coated aluminium	0.63	1.38

Model	Description
77711101	Replacement gasket for 30420001
95021501	Replacement gasket for 30430101





# 306 4" Coaxial Adapters

The EBW coaxial vapour recovery adapter provides an inexpensive way to convert conventional underground storage tank fill risers to coaxial vapour recovery for Stage I vapour recovery requirements where the cap can remain on the adapter during vapour testing. When used in conjunction with EBW coaxial drop tubes, the coaxial vapour recovery adapter allows product to flow through the centre while vapours escape around the edge of the drop tube back to the delivery truck.

## Highlights

- Constructed of hard coated aluminium.
- Set screw on the adapter prevents movement on the riser pipe ensuring a tight seal.
- Bodies constructed of hard-coat anodized aluminium for compatibility with E-85 and Biodiesel.

## Order Information

Model	Material	Weight	
		Kg	Lbs.
30630001	Non-Poppeted Coax V.R. Adaptor-NPT	1.52	0.69
30630021	Non-Poppeted Coax V.R. Adaptor-BSPT	1.59	0.69
708335901	Poppeted Coax V.R. Adaptor	3.3	1.5
708336901	Poppeted Coax & Drop Tube Kit	Call	Call

708335901 Poppeted Coaxial Vapour Recovery Adaptor must use 708332901 Drop Tube.







# 308 Ball Float Vent Valves

The EBW ball float vent valves are used in conjunction with extractor vent valves in the Stage I vapour riser or tank vent line on underground storage tanks. The ball float vent valve will restrict vapour venting should a full tank condition occur and protects against product mixing and vapour locks due to vent pipe flooding. The bleed hole allows for delivery hose drainage after an overfill.

EBW 3" ball float vent valves are designed to comply with the California Enhanced Vapour Recovery program CP-201 requirements for 3" nominal vapour return piping. When used with an overfill alarm, this valve provides recognized overfill protection for a UST. The valve includes a brass installation cage and will fit all EBW extractor vent fittings. All ball floats are made of materials fully compatible with alcohol/gas blends and biofuels (E-85, Biodiesel, B-20)

## Highlights

### 2" Ball Float Advantages

- Epoxy coated steel nipple to prevent dissimilar metals from contacting each other.
- Stainless steel ball float is corrosion-resistant for long life.

### 3" Ball Float Advantages

- Both 2" and 3" now include E-coated steel installation cage.
- Stainless steel ball float is corrosion-resistant for long life.

## Specifications

**WARNING:** EBW 308 Series float vents should not be used with suction pump systems. For use on gravity drop systems only. Do not use with pump-off unloading. Do not use with coaxial Stage I vapour recovery drop tubes.

## Order Information

### 2" Ball Floats

Model	Nipple Length		Bleed Hole		Thread
	In.	mm	In.	mm	
308020003	3	76.2	0.06	1.524	NPT
308020205	5.12	130.04	0.06	1.524	NPT
308020107	7	177.8	0.06	1.524	NPT
308020112	12	304.8	0.06	1.524	NPT
308020116	16	406.4	0.06	1.524	NPT
308023003	3	76.2	0.06	1.524	BSPT
308023107	7	177.8	0.06	1.524	BSPT
308023112	12	304.8	0.06	1.524	BSPT
308023116	16	406.4	0.06	1.524	BSPT
308023115*	15	381	0.06	1.524	BSPT
308024119*	19	482.6	0.06	1.524	BSPT

\*Does not include Installation Cage.





## Order Information - continued

### 3" Ball Floats

Model	Nippel Length		Bleed Hole		Thread
	In.	mm	In.	mm	
308030005	5	127	0.06	1.52	NPT
308030011	11	279.4	0.06	1.52	NPT
308030012	12	304.8	0.06	1.52	NPT
308030014	14	355.6	0.06	1.52	NPT
308030018	18	457.2	0.06	1.52	NPT
308030021	21	533.4	0.06	1.52	NPT

### Installation Cages

Model	Pack		Thread
	In.	mm	
30822802	2	50.8	NPT
30822803	3	76.2	NPT
30822804	2	50.8	BSPT



## 300 Extractor Vent Valves

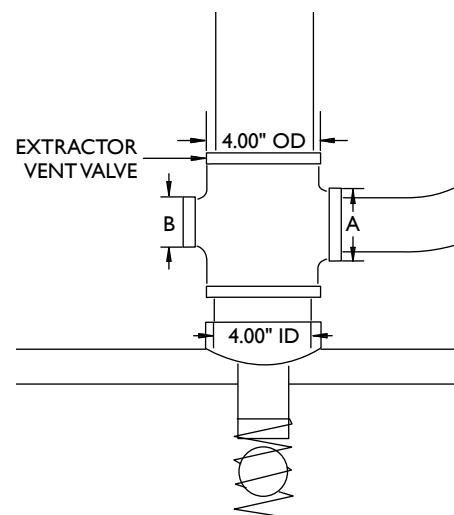
EBW extractor vent valves are designed to fit into a 4" tank opening on an underground storage tank. Several outlet sizes are available to accommodate manifolded tank lines and Stage II vapour recovery installations.

### Highlights

- E-coated bodies are fully compatible for alcohol/gas blends and biodiesel.

### Order Information

Model	Description	A		B		Weight	
		In.	mm	In.	mm	Lbs.	Kg
31040011	4" x 2" Extractor Valve w/o cage-NPT	2	51	n/a	n/a	13	5.9
31140011	4" x 3" Extractor Valve w/o cage-NPT	3	76	n/a	n/a	13	5.9
33040011	4" x 3" x 2" Extractor Valve w/o cage-NPT	3	76	2	51	18	8.16
33140011	4" x 3" x 3" Extractor Valve w/o cage-NPT	3	76	3	76	15	6.8
34040011	4" x 2" x 2" Extractor Valve w/o cage-NPT	2	51	2	51	17	7.71
34040041	4" x 2" x 2" Extractor Valve w/o cage-BSPP	2	51	2	51	17	7.71
31040042	4" x 2" Extractor Valve w/o cage-BSPT	2	51	-	-	13	5.90
31140042	4" x 3" Extractor Valve w/o cage-BSPT	3	76	-	-	13	5.90
33040042	4" x 3" x 2" Extractor Valve w/o cage-BSPT	3	76	2	51	18	8.16



# 300 Extractor Vent Valve Accessories

## Hard Coated Aluminium Plug with O-Ring Seal



Plug used for isolating vent piping from tank during testing.

Model	Description	Weight	
		Lbs.	Kg
39120101	4" test plug	3.6	1.63

## Cage Insert Assembly



Insert cage for use with EBW 2" float vent valves.

Model	Description	Weight	
		Lbs.	Kg
30822802	Insert cage	1.15	0.52
30822803	Insert cage	1.65	0.75
30822804	Insert cage	1.15	0.52

## 4" Brass Pipe Cap



Model	Description	Weight	
		Lbs.	Kg
76020101	4" pipe cap	4.6	2.09

## 5' Extractor Wrench



Five-foot extractor wrench works on all EBW extractor vent valves for removing extractor cage assemblies and inserting test plugs.

Model	Description	Weight	
		Lbs.	Kg
32110001	5' Extractor wrench	14	6.35



# 305 3" Float Vent Valves

Model	Description
30530521	3" x 3" x 2" BSPT for manifolded vents SS ball. Aluminium





# 362 Series Vapour Shear Valve

The EBW 362 vapour shear valve is designed for use as an emergency breakaway on Stage II vapour recovery lines in fuel dispensers. The double poppet design allows spring-loaded poppets inside the valve to seal vapours within both the dispenser riser and vapour piping in the event of dispenser displacement, providing maximum environmental protection.

## Highlights

- Dual poppets seal vapours in dispenser riser and in vapour line for maximum environmental protection.
- One 1" test port and two 3/8" test ports eliminate extra T-joints in vapour line which reduces potential leak points and provides more flexibility for Stage II vapour recovery installation.
- Durable zinc plated body is resistant to corrosion.
- Standard U-bolt and boss mount allow for quick and easy installation.
- Base thread includes 1-1/2" female.
- California State Fire Marshal approved.

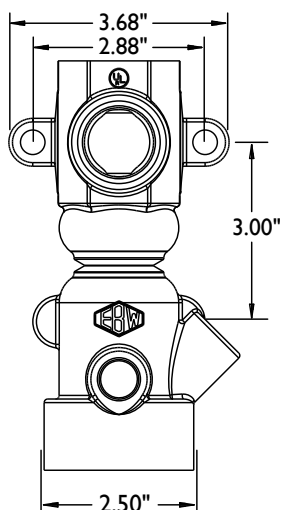
## Order Information

Model	Description
36220603	1" x 1-1/2" NPT thread vapour shear valve
36220621	1" x 1-1/2" BSPT thread vapour shear valve

*Note: When not using FFS Stabiliser Bar Kits with Vapour Shear Valves, the Vapour Shear Fastener Kit will also need to be included on the order. The Vapour Shear Fastener Kit comes with hex-head bolts.*

Model	Description
90069	Vapour Shear Fastener Kit

*Vapour Shear Fastener Kit is needed when used with non-FFS Stabilizer Bars*





# 662 Series Product

## Shear Valve

EBW™ brand emergency shear valves immediately stop product flow in the event of fire or collision at the dispenser. A patented adapter shears clean upon impact, causing the poppet to seal on the valve body preventing fuel spillage. When fire occurs, a fusible link releases the fulcrum arm, engaging the poppet. Standard 1-1/2" NPT openings allow minimal flow restriction and a pre-drilled test plug is included for line pressure testing. The valve can be boss or U-bolt mounted. Easy-to-replace adapters slide on and off valve base without lifting the dispenser. Adapters are available in male, female or union connections. Single poppet models stop product flow from the pump. Double poppet models stop flow from the pump and dispenser piping.

### Highlights

- Fusible link closes poppet in the event of a fire (165.0 °F and 73.9 °C).
- Single and double poppet.
- Main poppet seals in valve body, preventing accidents when replacing adapters.
- E-coated body corrosion protection.
- Meets NFPA 30A requirements.
- AGB compatible (E-85, gasoline and Biodiesel.)
- UL 842A and UL 842B approved for E-85 alcohol/gas blends and biodiesel.

### Specifications

- Top and Bbody material: E-coat cast iron
- Poppet and O-ring: Fluorocarbon
- Stem and poppet spring: Stainless steel
- Stem: stainless steel.
- The closing feature of an automatic shut-off valve must be checked at least once per year by manually tripping and holding linkage.

#### Approvals

- UL and ULC listed
- UL 842 A&B approved for ethanol and biodiesel
- ATEX approved, SIRA 13ATEX9035U

*Note: The closing feature of an automatic shut-off valve must be checked at least once per year by manually tripping and holding linkage.*

#### NFPA-WARNING

- Annually test auto shut-off. Electrical supply to the submersible pump must always be disconnected before servicing meters, dispensers or emergency shut-off valves. Do not apply more than 50 psi to valve with poppet in its closed position. Valve seat and disc damage may occur.

### Order Information

Model	Description
662500901	Single poppet, union, 1½" NPT, E-coat AGB
662500902	Single poppet, female, 1½" NPT, E-coat AGB
662500903	Single poppet, male, 1½" NPT, E-coat AGB
662510902	Single poppet, female, 1½" BSPT, E-coat AGB
662510903	Single poppet, male, 1½" BSPT, E-coat AGB
662501901	Double poppet, union, 1½" NPT, E-coat AGB
662501902	Double poppet, female, 1½" NPT, E-coat AGB
662501903	Double poppet, male, 1½" NPT, E-coat AGB
662511902	Double poppet, female, 1½" BSPT, E-coat AGB
662511903	Double poppet, male, 1½" BSPT, E-coat AGB
662502902	Double poppet, normally closed, female, 1½" NPT, E-coat AGB

662502902 is UL listed only.



# Emergency Shut-off Valve Accessories

Holds the single or double poppet shut-off valve rigidly in place, ensuring proper shearing.

Model	Description	Weight	
		Lbs.	Kg
66213801	U-bolt kit	0.3	0.14

Model	Description	Weight	
		Lbs.	Kg
66218501	Fulcrum arm with Hex	0.1	0.05
66225001	Fusible link assembly	0.1	0.05

# Emergency Shut-off Valve Replacement Tops

Model	Description	Kegel	Scherventil, Adapter verwendet	Thread
662500202	Shear Valve Top Female 1.5" NPT	Single	662500902	NPT
662510202	Shear Valve Top Female 1.5" BSPT	Single	662510902	BSPT

Model	Description	Kegel	Scherventil, Adapter verwendet	Thread
662500203	Shear Valve Top Male 1.5" NPT	Single	662500903	NPT
662510203	Shear Valve Top Male 1.5" BSPT	Single	662510903	BSPT

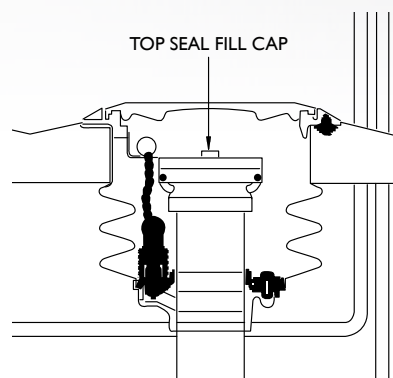
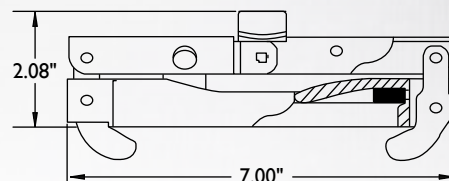






# 777 4" Top Seal Fill Caps

EBW top seal fill caps are used to prevent vapours from escaping the fill riser pipe on the underground storage tank when it is not being filled. The geometry of the linkage provides self-centring characteristics for dependable sealing. The easy-to-operate T-handle provides a convenient method of removal and replacement — simply pull to remove and push to replace.



## Highlights

- Glass-filled nylon and aluminium body styles available.
- Stainless steel latches.
- Padlock capability.
- Form fitting replaceable gasket, molds itself to the contour of the adapter to form a positive seal for added protection.

## Order Information

Model	Description	Weight	
		Kg	Lbs.
77720102*	Fill Cap 4" Nylon Biofuel approved	0.45	1
95021501	Fill Cap Replacement Gasket 4"	--	--

\* Biofuel approved model (E85 and biodiesel), CARB: Phase 1 Certification VR-101.

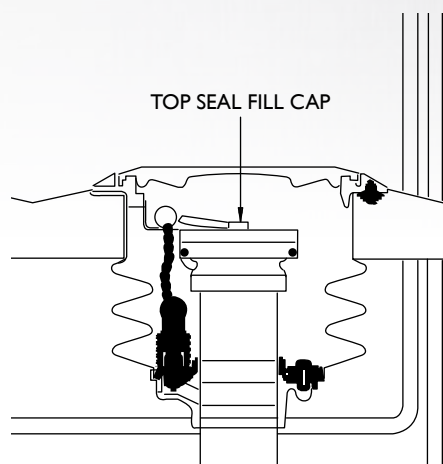
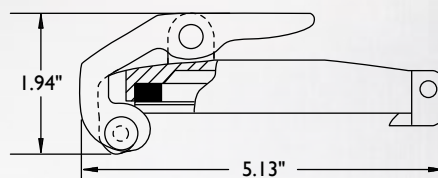
Note: 77720102 replaces 77720101





# 779 3" Top Seal Fill Caps

This durable 3" top seal single lever cap provides a tight positive seal on all 3" adapters.



## Highlights

- Extruded brass cam arm.
- Cap body made of corrosion-resistant epoxy coated aluminium.

## Order Information

Model	Description	Weight Lbs.	Kg
77920001	3" top seal fill cap	1	0.45

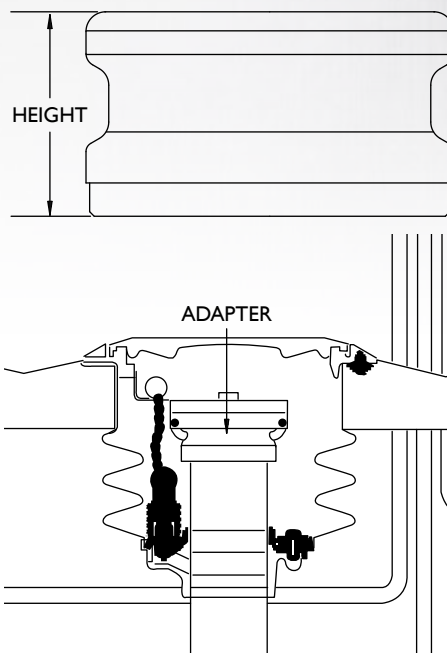
Model	Description
77420203	Replacement Buna-N gasket





# 778 Top Seal Fill Pipe Adapter

Top seal fill pipe adapters are installed on the fill riser pipe in spill containment manways on an underground storage tank. The adapters are used to connect delivery drop elbows to the fill pipe for fuel deliveries. Adapters can be ordered with or without wrenching lugs to suit your installation preference. EBW top seal fill pipe adapters fit all top seal drop elbows and top seal fill caps.



## Highlights

- Constructed of ASTM B62 corrosion-resistant brass.
- Nitrile gasket for a secure seal onto the fill pipe.

## Order Information

Model	Description	Height		Weight		Thread
		mm	In.	Kg	Lbs.	
78020001	3" x 3" without lugs	44.45	1.75	0.9	2	NPSM
78020031	3" x 3" without lugs	44.45	1.75	0.9	2	BSPP
77830231	4" x 3" with lugs	57.15	2.25	0.9	2	BSPP
77830101	4" x 4" with lugs	68.27	2.69	0.9	2	NPSM
77830135	4" x 4" with lugs - nickel plated	68.27	2.69	0.9	2	BSPP
77830132	4" x 4" without lugs	68.27	2.69	0.9	2	BSPP

Model	Description
77020102	3" replacement gasket
77020103	4" replacement gasket

\* Missouri #99-08

\*\* Biofuel compatible model (E85 and biodiesel).





# Defender Series™ OPV

## Overfill Prevention Valve

The Defender Series™ overfill prevention valve (OPV) prevents the overfill of an underground storage tank during a gravity-fed product delivery. It employs a revolutionary magnetically-coupled actuator system to provide positive shutoff. This unique method of shutoff eliminates any penetrations in the valve, making it both vapor and leak tight. The Defender Series™ OPV provides safe, rapid, and reliable fuel drops with simple installation, service, and remote testing capability.

### Highlights

#### Eliminate Leak Points

The revolutionary magnetically-coupled actuator system allows the Defender Series™ OPV to achieve positive shutoff without a single penetration in the valve body.

- The absence of body penetrations in the OPV eliminates potential leak paths for escaping vapors.
- Every unit is factory tested for 100% vapor tightness to ensure a clean, fugitive emission-free forecourt.
- With increasing vapour recovery regulations around the world, the Defender Series™ OPV will have you ready for compliance.

#### Simple Installation

Gone are the days flaring, riveting, and epoxying drop tubes on site. The Defender Series™ OPV utilizes an error proof roll-crimp and thread installation method to achieve a perfectly in-line installation.

- A special, double O-ring top adapter is used to attach the drop tube for easy installation without any drilling, riveting, epoxy or flaring tools.
- A perfectly in-line assembly installs smoothly into the riser and can be easily removed for maintenance.
- With threaded top and bottom drop tube installation, damaged drop tubes can easily be replaced without having to purchase an entirely new assembly.

#### High or Low Flow

Minimal flow path obstructions accommodate high flow drops while the magnetically-coupled actuator system also provides reliable positive shutoff for low flow drops.

- The Defender Series™ OPV accommodates a broad range of flow rates from 25 gpm to 370 gpm (95 lpm to 1,400 lpm).
- In high flow applications, the actuator system will hold the flapper in place, only releasing it into the flow of fuel once the float has risen to generate positive shutoff.

- In low flow applications, the actuator system will assist by kicking the flapper out into the flow of fuel to generate positive shutoff.

#### Remote Testing

The magnetically-coupled actuator system along with the testing tool allows for primary functionality testing of the OPV without having to remove the entire assembly from the riser.

- The remote testing tool will actuate the flapper when inserted down the drop tube and slid by the actuator - this is confirmed visually through a window in the tool.
- To accommodate varying tank sizes, the testing tool handle is segmented into six sections for customisation up to 11 feet (3.35 meters) in length.
- Fast visual inspection can be conducted by a single person.

#### Completely Versatile

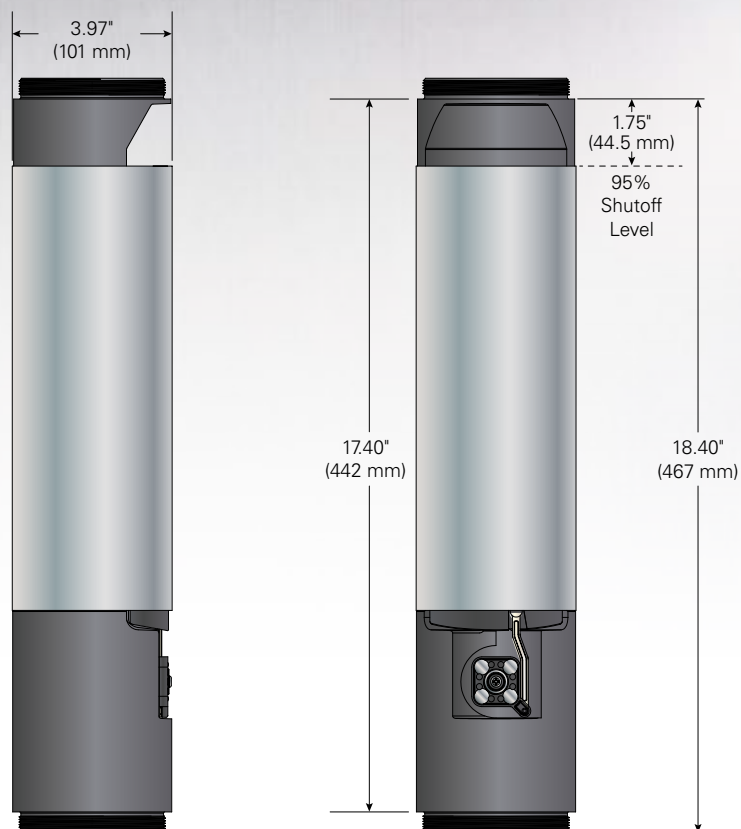
The Defender Series™ represents our most versatile offering of OPVs to date with more approvals and capabilities per model as well as simpler ordering options.

- Each model is designed to meet all major approvals and global performance requirements.
- Alcohol, gas, and biofuel (E-85, gasoline and biodiesel) compatible models come with hard coated anodized drop tubes for full compatibility.
- For use in direct and remote gravity drop applications with models for coaxial applications.



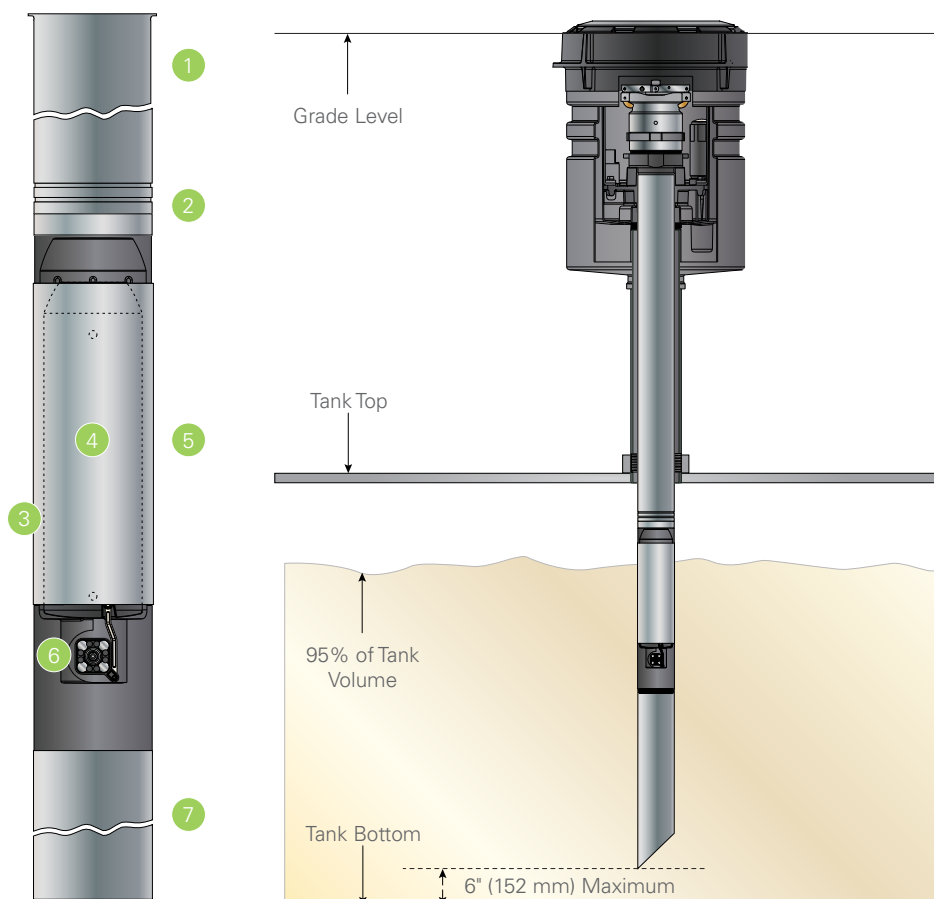
## Specifications

### Dimensions



### Components

- 1 Pre-flanged aluminum top drop tube
- 2 Roll-crimped top fitting/drop tube
- 3 Protective float sleeve
- 4 Float (shielded by float sleeve)
- 5 Valve Assembly
- 6 Magnetically-coupled actuator
- 7 Threaded bottom drop tube.





## Approvals/Certifications

- ULc listed.
- ATEX approved.

## Operation

As the liquid level in the UST approaches 95% capacity, the liquid level raises the float. As the float rises it actuates the external/internal magnetic couplers which release the flapper to be closed by the flow of product. As the float continues to rise, the internal mechanism pushes the flapper further into the product flow to allow actuation at high or low flow rates. This sudden reduction in flow caused by the primary flapper closing creates "line shock" to the fill hose which signals the delivery driver that the tank is nearing 95% capacity. As the float continues to rise to the 95% fill level, the secondary closes, completely stopping the flow of fuel.

## Order Information

Model	Description
708591901	Defender Series™ overfill prevention valve with 5' top drop tube, 8' bottom drop tube
708591902	Defender Series™ overfill prevention valve with 5' top drop tube, 10' bottom drop tube
708591921	Defender Series™ overfill prevention valve with 5' top drop tube, 8' bottom drop tube, AGB compatible*
708591922	Defender Series™ overfill prevention valve with 5' top drop tube, 10' bottom drop tube, AGB compatible*
708592901	Defender Series™ overfill prevention valve with 10' top drop tube, 8' bottom drop tube
708592902	Defender Series™ overfill prevention valve with 10' top drop tube, 10' bottom drop tube
708592921	Defender Series™ overfill prevention valve with 10' top drop tube, 8' bottom drop tube, AGB compatible*
708592922	Defender Series™ overfill prevention valve with 10' top drop tube, 10' bottom drop tube, AGB compatible*
708593901	Defender Series™ overfill prevention valve, coaxial with 6.5' top drop tube, 8' bottom drop tube
708593902	Defender Series™ overfill prevention valve, coaxial with 6.5' top drop tube, 10' bottom drop tube
708593923	Defender Series™ overfill prevention valve, poppeted coaxial with 6.5' top drop tube, 8' bottom drop tube
708593924	Defender Series™ overfill prevention valve, poppeted coaxial with 6.5' top drop tube, 10' bottom drop tube
708594901	Defender Series™ overfill prevention valve only with top adapter, AGB compatible*
708594902	Defender Series™ overfill prevention valve only with coaxial top adapter, AGB compatible*
708535901	Roll crimping tool
708530930	Replacement roll crimper tool roller bit for retrofit with existing tool
708534901	Remote testing tool, 11' long sectional/collapsible

\*Alcohol, gas, biofuel compatible (E-85, gasoline and biodiesel) models come with hard coated anodized drop tubes for full compatibility.





# AutoLimiter® II

## Automatic Overfill Prevention Valve

The AutoLimiter® overfill prevention valve is a self contained two-stage positive shut-off valve designed to prevent the overfill of an underground storage tank (UST) during a gravity fed product delivery. When the liquid level of the UST reaches about 92% of the tank capacity during a fill, the product in the tank raises the lower float of the valve. The primary poppet of the valve is then released and reduces flow to about 10% of normal flow. The sudden reduction in flow created by the closing of the primary poppet provides "line shock" to the fill hose notifying the transport delivery driver the tank is nearing 95% capacity. The transport delivery driver can then stop filling the tank, disconnect and drain the delivery hose. The upper float will close off the product flow when the product level reaches 95% of the tank capacity.

### Highlights

- Two-stage, spring-loaded shut-off flapper reduces line shock.
- Vertical float design allows for valve to be removed even when tank is full.
- Inspection test port.
- Bottom tube threads on (except for -04 models).

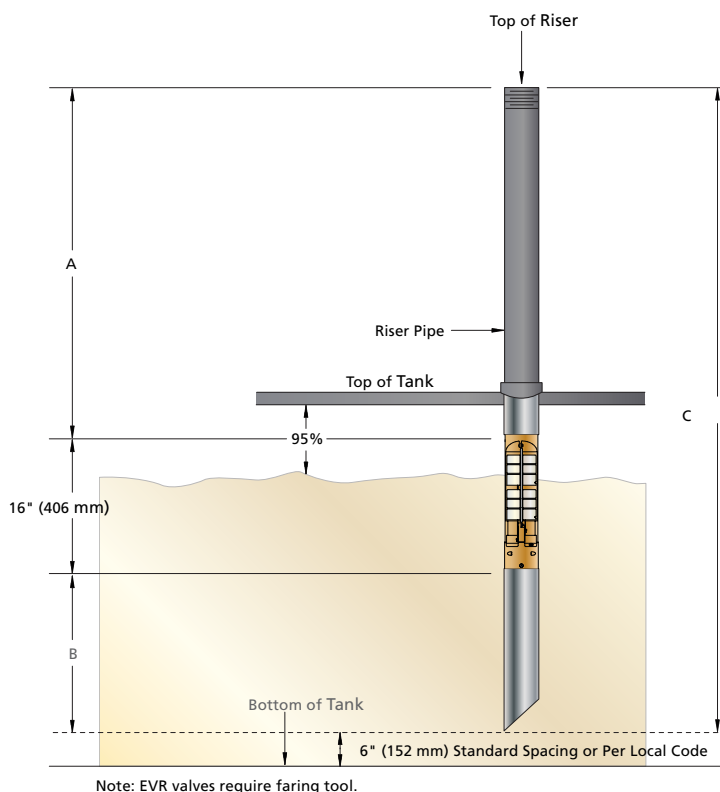
### Specifications

#### Installation

- The AutoLimiter® II is designed solely for use in underground storage tanks. For gravity drops only. No attempt should be made to utilize this product with aboveground storage tanks. The valve would not function, creating a very dangerous condition.
- This product is for use in tight fill applications only.
- EVR Phase 1 models require T-6100-FT installation tool.

### Order Information

Model	Description	A		B		C	
		mm	In.	mm	In.	mm	In.
70849101	Overfill Prevention Valve 4" with Drop Tube	60	1524	96	2438.4	172	4368.8
70849404	Overfill Prevention Valve only 4" without Drop Tube	Valve only					





## Remote Fill Kit

The EBW remote fill kit is needed when your tank location does not allow the space for a tanker truck or a convenient means to fill your tanks during high traffic periods. The remote fill can also be utilised for day or night filling, allowing delivery away from the main building during the day and close to the building during nighttime hours.

### Highlights

- More flexibility with station and equipment design.
- Allows for sticking tank through main fill adapter.

### Order Information

Model	Length of Top Tube with Kit		Weight	
	In.	M	Lbs.	Kg
70832002	72	1.8	6.4	2.9



## Drop Tubes

EBW drop tubes are available in two wall thicknesses. The thin wall (.035 thickness) models offer easy handling and installation. The heavy wall (.062 thickness) models offer more durability. The drop tube fits directly into the underground tank riser pipe in dual point vapour recovery and conventional non-vapour recovery fill systems. Fuel is efficiently delivered at a faster rate, and allows submerged filling, which generates less vapours and evaporation.

The drop tubes are furnished with a straight cut bottom, which can be cut to length on the job site.

### Highlights

- Flared end with Buna-N gasket for positive seating.

### Specifications

- Note: For use with outside clamping drop elbows on adapter only. Do not use with inside expanding drop elbows.
- 2" size shipped six tubes per box.

### Order Information

Model	Description	Tubes per Box	Size mm × M	Wall Thickness In. × Ft.	OD		Weight		Weight	
					mm	In.	mm	In.	Kg	Lbs.
782204102	Drop Tube, Aluminium 4" x 10' Pack of 2	2	102 × 3.05	4 × 10	1.58	0.062	99	3.88	10	22





# LAG14 Leak Detection

This class II (EN 131 60-1: 2003) leak detector with an intrinsically safe probe circuit is designed for double-skinned tanks containing liquid in the interstitial space. The unit is designed for monitoring inflammable liquids of danger classes A I, A II, A III and B stored above ground and non-inflammable water-polluting liquids.

The system consists of a control unit, a container for leak monitoring fluid and a probe. CE-certified control unit with visual and audible alarms, test button and increased interference protection. With relay for connection of additional alarm equipment.

## Order Information

Model	Description	Pack Size	Weight (kg)	Weight (lbs)
LAG14-ER	Leak detector for double-skinned tanks	1	1.4	3.1



# The Defender Series™

## Spill Containment

The field-proven Defender Series™ has gone toe-to-toe with the worst conditions the world's forecourts could throw at it and came out with a reputation for dependability and versatility. So how could you possibly improve upon the most dependable spill containment series on the market? For starters, we've integrated it into our rugged multiport platform and outfitted it for complete biofuel compatibility. The best defense just got better.

### Highlights

#### Spills In, Water Out

The foremost function of a spill container is to keep spills in and keep water out all while enduring constant attack from weather, forecourt traffic and continuous fuel delivery handling. The rugged concrete ring, sturdy snow plow ring, integrated liquid dam and gasketed lid keep the Defender Series™ capturing spills and repelling water intrusion for maximum protection of your liquid investment.

#### Ready for Anything

Regulations and requirements are constantly changing. The Defender Series™ lets you choose a single wall spill containment option with the ability to upgrade to a double wall spill containment option in the future for twice the protection. The upgrade is simple and can be carried out without having to break concrete; an expense and hassle that no one wants to encounter.

#### Easy Installation and Retrofit

Let's face it; installations don't always go exactly as planned. Installers will love the variable height adjustment feature of the Defender Series™, which allows for 3 inches of adjustment in installation height, making it easy to ensure proper grade level installation. This feature also allows for easy replacement of most any other spill container in retrofit applications.

#### Interstitial Monitoring (double-wall versions only)

The peace of mind in knowing your double wall spill containment is performing as it should is priceless. The Defender Series™ features two options, both mechanical and electronic, to receive immediate confirmation of the integrity of the interstitial space so you can spend less time worrying about the possibility of leaks.

#### Multiport Platform

Franklin has integrated the direct bury Defender Series™ spill container into its multiport platform for a new level of protection and complete ease of access. With several layout configurations to choose from, the multiport platform lets you incorporate all of your spill containment into one space-saving area.

#### Multiport & Direct Bury Upgrade

With the multiport platform you have the option to choose single wall spill containers now with the freedom to upgrade to double wall in the future. When the time is right, simply unbolt the multiport top and replace the spill containers. Replacement is different for multi vs direct bury. In direct fill, you unbolt the plow ring and remove the bucket; on multiports you remove the large treadplate lid and change out the buckets.

#### Simple Maintenance

Maintenance with the Defender Series™ is a breeze. With the direct bury models, you can easily replace interior containment without having to break concrete. The Defender Series™ plow ring bolts are completely protected – located inside the interior of the container shielding them from the potential wear and tear of the forecourt environment.

#### Fully Biofuel Compatible

The Defender Series™ incorporates only the highest-grade biofuel compatible components, which allow for use with petroleum, petroleum/alcohol blends (including E-85), diesel and biodiesel.





## Specifications

### Fugitive Emission Protection

Proactively protecting a site from the dangers of fugitive emissions can save station owners both time and money by avoiding remediation due to fuel leakage. The Defender Series™ provides several key defenses from these costly expenses:

- 1/4" compression gasket provides a vapour tight mechanical seal.
- Drop tube compression adapter ensures a vapour tight seal.
- Drain valve designed to meet CARB leak rate requirements.

### Integrity Confirmation (double-wall versions only)

Always know how your spill containment is performing and get immediate confirmation on the integrity of the interstitial space with the following Defender Series™ features:

- I2 (Interstitial Integrity) Monitor facilitates efficient monthly and annual visual inspections confirming the integrity of the secondary containment space.
- Electronic liquid detection sensor option available with proven ULS sensor for active leak detection.
- ULS wiring penetrates side wall of gravel guard ensuring no additional installation height requirement.

### Minimised Maintenance Costs

Maximise your business' value and minimise installation and maintenance expenses with features like:

- Field replaceable containment – replace easily without having to break concrete, simply loosen the four plow ring bolts to remove and replace interior containment.
- Plow rings bolts are protected – located inside the interior of the container, shielding them from the potential wear and tear of the forecourt environment.
- Variable height adjustments – allows for an installation height between 14 1/2" and 17 5/8", for easy installation in retrofit applications.

### I2 Monitor (double-wall versions only)

Monthly and annual visual inspections can be efficiently completed by inspecting the I2 (Interstitial Integrity) Monitor to confirm liquid has not intruded the secondary containment space. An electronic liquid detection sensor option is also available for site owners who choose to install active leak detection methods to further protect their investment.

### Variable Installation Height

The Defender Series™ double wall and single wall field replaceable spill container was designed with the retrofit application in mind. The variable height adjustment feature allows an installation height range of 14 1/2" to 17 5/8" which minimises the number of retrofit spill containment options needed to replace existing direct bury containments. This reduces the need to replace tank risers and ultimately reduces the retrofit installation time.

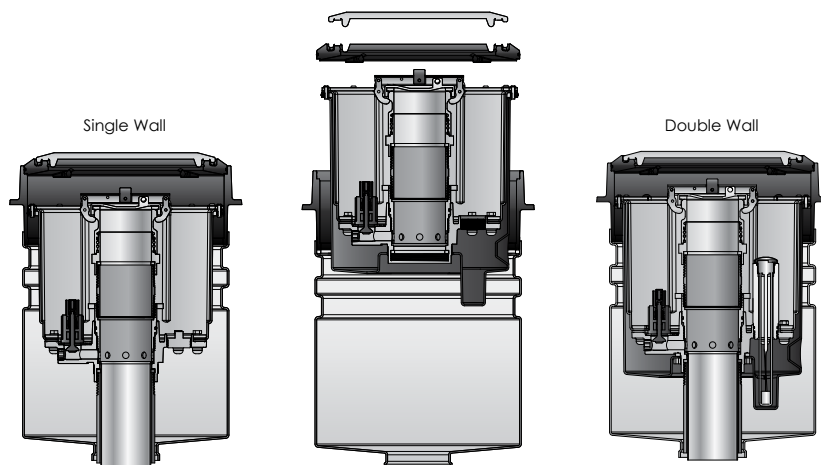
### Double Wall Upgradeability

As regulations change, it may become necessary to upgrade a single wall spill container to meet future requirements. The Defender Series™ Spill Container allows the single wall option to be converted into a double wall spill container simply by removing the snow plow ring, removing the single wall containment, threading the secondary contained spill container onto the existing tank riser and then reinstalling the snow plow ring.

Exceeds H20 and HS20 load standards (maximum axle load requiring support for the 32,000 or 16,000 pounds for each set of dual tire wheels).

### Approvals

- ULC listed.
- CARB approved.



## Order Information

### Ordering Guide

Complete spill container part numbers have a specific order and are created using the following guidelines:

#### 705-XXX-YAB-CI-GKT

- XXX = Containment
  - 545 = Single wall
  - 555 = Double wall
- Y = Interstitial Monitoring Options
  - 0 = No sensor (not an option with double wall)
  - 1 = I2 Monitor (float gauge)
  - 2 = TSP-ULS Sensor
- A = Base Thread Options
  - 0 = NPSM
  - 1 = NPT
  - 2 = BSPT
- B = Drain Options
  - 1 = with Drain
  - 2 = without Drain
- CI-GKT = Lid
  - CI-GKT is a standard gray epoxy-coated cast iron gasketed lid. Call factory for additional lid options.

Example: 705555111CI-GKT = Double wall Defender Series™ spill container with I2 monitor, with NPT base thread, with drain and with standard cast iron gasketed lid.

### Defender Series™ Spill Containers

Model	Description
705545001CI-GKT	Defender Series™ 5 gallon spill container, single wall, NPSM thread, with drain, with gray epoxy-coated cast iron gasketed lid
705545002CI-GKT	Defender Series™ 5 gallon spill container, single wall, NPSM thread, without drain, with gray epoxy-coated cast iron gasketed lid
705555101CI-GKT	Defender Series™ 5 gallon spill container, double wall, NPSM thread, with drain, with I2 monitor, with gray epoxy-coated cast iron gasketed lid
705555102CI-GKT	Defender Series™ 5 gallon spill container, double wall, NPSM thread, without drain, with I2 monitor, with gray epoxy-coated cast iron gasketed lid
705555201CI-GKT	Defender Series™ 5 gallon spill container, double wall, NPSM thread, with drain, with TSP-ULS sensor, with gray epoxy-coated cast iron gasketed lid
705555202CI-GKT	Defender Series™ 5 gallon spill container, NPSM thread, without drain, with TSP-ULS sensor, with gray epoxy-coated cast iron gasketed lid
705559901*	Defender Series™ spill container cutaway display, double wall, with drain, with I2 monitor

\*For display and demonstration purposes only. Six-to-eight week lead time.

### Defender Series™ Spill Container Replacement Parts

Model	Description
70550301	Spill container seal-ring
602256001	Tank riser gasket
1103939	DT riser clamp O-ring
70551101	I2 monitor
70551002	Inspection port (I2 monitor)
70551001	Inspection port (sensor)
70550901EC	DT riser clamp
70533729	Pull to push drain valve kit
70553001	Snow plow ring assembly
70544011	Cover, cast iron w/ gasket (gray)
1115601	Slotted hex head self-tapping screw
70553101	Drain chain an clip
705555101SP	BKT ASM, DW, AGB, I2, DRN, NPSM
705555102SP	BKT ASM, DW, AGB, I2, ND, NPSM
705555201SP	BKT ASM, DW, AGB, SEN, DRN, NPSM
705555202SP	BKT ASM, DW, AGB, SEN, ND, NPSM

### Defender Series™ Spill Container Installation Tools

Model	Description
T-7001	T-handle wrench
T-7106	Double-ended installation tool
T-7107	Double wall vacuum test kit (for double wall models only)





# Grade Level

EBW spill containers are designed to collect spilled product that occurs during normal tank filling on underground storage tanks. Threaded base models are available in cast iron or composite. Slip-on (retrofit) models use a gasket flanged bolt system to secure the spill bucket to the riser pipe and are designed to eliminate the need to remove the riser pipe from the underground tank when installing.

## Highlights

- **Solid Construction** - The durable and flexible polyethylene shell is designed to move with natural ground movements. The shell is equipped with a gravel guard to prevent backfill material from filling in around the movable shell, eliminating problems with ground movement.
- **Cast Iron or Composite Base** - Ensures a long lasting, watertight seal.
- **Heavy Duty Cast Iron Deflector** - Provides protection from heavy traffic and truck plows and allows for water to run away from the spill container top, eliminating water collection in the bucket.
- **Drain Valve** - Allows emptying of contained product back to the storage tank. The drain is equipped with a screen for convenient cleaning.
- **Cover Options** - Includes FRC raintight in API colours, FRC black snap-on, raintight aluminium, watertight locking aluminium and cast iron.
- **Optional API Cover Identification Plates** - Clearly identifies the product contained in the storage tank and helps to prevent cross contamination. Identification plates are available for all standard API symbols.
- **Highway 20 Rated (D.O.T. H20)** - All EBW spill containers and manways exceed the D.O.T. H20 requirements.
- **All EBW spill containers and manways exceed the D.O.T. H20 requirements.**
  - EVR Phase 1 Certification VR-103 (7XX-49Y-0Z models).

## Specifications

### Materials

- Base: cast iron or composite.
- Bucket: polyethylene.

- Mounting ring: cast iron.
- Cover: fiber reinforced composite (FRC), cast iron or aluminium.

### Design Features

Number	Description
1	Heavy duty cast iron deflector ring
2	Drain valve
3	Cast iron or composite base

Model	A		B		C	
	In.	cm	In.	cm	In.	cm
702	17.12	43.48	13.25	33.7	15.88	40.3
703	17.12	43.48	13.25	33.7	15.88	40.3
705	17.12	43.48	14.75	37.46	15.69	39.85
715	17.12	43.48	23.5	59.69	22.5	57.15



## Order Information

### Composite Base Spill Containers

Model, with drain	Description	Capacity		Cover	Weight	
		Litre	Gallon		Kg	Lbs.
70547101BLK	Spill Container 5 gal. 4" NPT composite base Black	19	5	Black, FRC, rain tight	19.3	42

### Cast Iron Base Spill Containers

Model, with drain	Description	Capacity		Cover	Weight	
		Litre	Gallon		Kg	Lbs.
70547001BLK	Spill Container 5 gal. 4" NPT CI base Black	19	5	Black, FRC, rain tight	25	54
70547021BLK	Spill Container 5 gal. 4" BSPT CI base Black	19	5	Black, FRC, rain tight	25	54
70547201BLK-S	Spill Container 5 gal. 4" NPT CI base Black Snap-On	19	5	Black, snap-on	25	54
70547965CI-GKT	Spill Container 5 gal. 4" NPT grey epoxy CI	19	5	Grey epoxy coated cast iron w/ gasket	25.4	56
70547901CI-GKT	Spill Container 5 gal. 4" NPT grey epoxy CI & RCA	19	5	Grey epoxy coated cast iron w/ gasket, RCA *	25.4	56
70549001BLK	Spill Container 5 gal. 4" NPT Rain Tight FRC Black	19	5	Black, FRC, rain tight	26.7	58
71547001BLK	Spill Container 15 gal. 4" NPT Rain Tight FRC Black	57	15	Black, FRC, rain tight	28	62
72547001BLK	Spill Container 25 gal. 4" NPT Rain Tight FRC Black	95	25	Black, FRC, rain tight	42	92

Model, without drain	Description	Capacity		Cover	Weight	
		Litre	Gallon		Kg	Lbs.
70545801BLK	Spill Container 5 gal. 4" NPT Rain Tight FRC Black	19	5	Black, FRC, rain tight	29.4	64
70547202BLK-S	Spill Container 5 gal. 4" NPT Rain Tight Black Snap	19	5	Black, snap-on	28	62
70547902CI-GKT	Spill Container 5 gal. 4" NPT grey epoxy CI & RCA	19	5	Grey epoxy coated cast iron w/ gasket, RCA *	30.8	68
70549002BLK	Spill Container 5 gal. 4" NPT CI base FRC Black	19	5	Black, FRC, rain tight	19.3	42
71547202BLK-S	Spill Container 5 gal. 4" NPT CI base Black Snap-On	57	15	Black, snap-on	28	62

NOTE: These models are all NPT bases. BSPT available on some models only.



## Order Information continued

### Raintight Cover Options

Suffix	Description
BLK	Black, raintight
WHT	White, raintight
RED	Red, raintight
YEL	Yellow, raintight
GRY	Grey, raintight
ORG	Orange, raintight
BRN	Brown, raintight
WHT-X	White, raintight with black cross
RED-X	Red, raintight with white cross
ALUM	Aluminium
CI	Cast iron
CI-GKT	Cast iron with gasket
WATERT	Watertight aluminium

Note: You must specify cover option at time of order.

### 12" Replacement Covers For Grade Level Spill Containers

Model	Description
70517101	Replacement clips for snap-on covers
70533301*	FRC black snap-on
70540900	Aluminium
70542301	FRC standard black cover
70542302	FRC white
70542303	FRC red
70542305	FRC yellow
70542307	FRC orange
70543000	Cast iron
70544011	Cast Iron with gasket in black
71043001	Aluminium watertight for use on 705 and 715 grade level spill containers

\*Snap-on lids fit only on special snap-on spill containers. Please consult factory. Minimum quantities may apply.







# Round Access Covers & Skirts

These manways have a proven track record of trouble-free operation. Their durable construction withstands the heaviest traffic and meets the requirements of a D.O.T. H20 load rating.

## Highlights

- Cast Iron Cover and Rings - EBW 7-1/2" round manways have ribbed cast iron covers and cast iron rings to withstand heavy loads and traffic.
- Heavy Duty Skirts - EBW 7-1/2" round manways have heavy duty cast iron skirts. 12" and 18" round manways have a 16 gauge welded steel skirt and are available in different depths to fit your needs.
- Coloured Cover Options - EBW 18" round manways can be ordered with optional FRC coloured covers in standard API colour codes. The FRC covers also include a recessed area for optional API colour coded identification plates.
- Highway 20 Rated (D.O.T. H20) - All EBW spill containers and manways exceed the D.O.T. H20 requirement.

## Order Information

Model	Manway Size		Cover	Skirt Depth		Weight	
	In.	mm		In.	mm	Lbs.	Kg
78120808	7.5	191	Cast iron	8	203	22	10
78121212CI	12	305	Cast iron	12	305	36	16
78121212CI-H	12	305	Cast iron with handle	12	305	36	16
78121224CI	12	305	Cast iron	24	610	70	32
78141808BLK	18	457	FRC	8.5	216	30	14
78141808GRY	18	457	FRC	8.5	216	30	14
78141812BLK	18	457	FRC	12	305	33	15
78141812GRY	18	457	FRC	12	305	33	15
78141818BLK	18	457	FRC	18	457	39	18
78147865	18	457	FRC bolted	8.5	216	30	14

## Replacement Round Manway Covers

Model, with drain	Manway Size		Cover	Weight	
	In.	mm		Lbs.	Kg
78130201	12	305	FRC black	10	5
78130207	12	305	FRC orange	10	5
78130401	18	457	FRC black	10	5
78130601	18	457	0.375" steel	33	15
78140001	12	305	Cast iron	17	8
78140201	7.5	191	Cast iron	6	3
78140701	12	305	Cast iron with handle	18	8.1
SRC18HRP	18	457	Steel, bolt-down	33	15





# Power Lift Cast Iron Covers

UPP™ brand power lift cast iron covers are designed for use on forecourts and refuelling stations with heavy traffic where frequent access is required. They combine the strength and durability of cast iron construction with a spring loaded hinge mechanism that allows the covers to be opened and closed with ease. The lid will stay open at any angle without the need for a locking mechanism or stays, greatly increasing safety and time/manpower efficiencies on site.

## Highlights

- The extremely hard wearing and durable covers will not spin out, buckle or loose shape due to pressure forces from vehicles.
- The unique spring loaded hinge mechanism makes the ease of opening the ultra strong cast iron cover comparable to that of a lightweight composite cover.
- Lockable design increases on site security and safety.
- When locked, the covers become watertight due to the chemically resistant neoprene sealing gasket and internal drainage channel.
- Surface liquids drain away from the cover preventing leaking into the underground containment.
- Resistant to chemical corrosion from petroleum and alcohols and painted with a noncorrosive paint which protects the cover from rust.
- Square, rectangle and round access model options.
- Raised and flush mount model options.
- Dip model available with integrated inspection port.

## Specifications

- Each cover complies with the toughest engineering standards for access covers: BS EN 124 to Class D400 structural integrity as tested by Lloyds British Testing plc.

## Order Information



Model	Description	Pack Size	Kg	Lbs.	Pack (mm)
PC76-D400*	UPP Access Cover 760x760mm D400 flush	1	120	264.6	760 x 760

\* Note that one handle PC/H needs to be ordered with each PC76-D400 cover.



Model	Description	Pack Size	Kg	Lbs.	Pack (mm)
PC76-1*	UPP Cast Iron Cover 760x760mm raised	1	121	266.8	760 x 760

\* Note that one handle PC76-1/H needs to be ordered with each PC76-1 cover.



## Order Information - continued



Model	Description	Pack Size	Kg	Lbs.	Pack (mm)
PC77 *	UPP Cast Iron Cover 770x770mm raised	1	130	286.6	770 x 770

\* Note that one handle PC/H needs to be ordered with each PC77 cover.



Model	Description	Pack Size	Kg	Lbs.	Pack (mm)
PC95-D400*	UPP Access Cover 950mm Dia D400	1	200	441	1300 X 1200



Model	Description	Pack Size	Kg	Lbs.	Pack (mm)
PC95-D400-DIP*	UPP Cover 950mm Dia Dip D400	1	200	441	1300 X 1200

\* Note that one handle PC/H needs to be ordered with each PC95-D400-DIP cover.



Model	Description	Pack Size	Kg	Lbs.	Pack (mm)
PC150-76-D400	UPP Cast Iron Cover 1500 x 760mm D400	1	264	582	1502 X 762

\* Note that TWO handle PC/H need to be ordered with each PC-150-76-D400 cover.



Model	Description	Pack Size	Kg	Lbs.	Material
PC76/H	Handle for PC 51/76/77/95 (pictured)	1	1.06	2.3	Cast Iron
PC76-1/H	Handle for PC76-1	1			
PC76/J	Gasket for PC76 Access Cover	1	0.3	0.7	Neoprene





# FLEX-ING™ Composite Manholes

At a fraction of the weight of typical steel manholes, FLEX-ING™ brand Composite Manholes give you all the benefits of a solid, well-constructed manhole with none of the difficulties you've come to expect from steel. A single technician can easily remove the lightweight cover while the composite construction and design allow the cover to stand up to the harshest forecourt conditions.

## Highlights

### Steel Has Met Its Match

At a fraction of the weight of typical steel manholes, FLEX-ING™ brand Composite Manholes give you all the benefits of a solid, well-constructed manhole with none of the difficulties you've come to expect from steel. A single technician can easily remove the lightweight cover while the composite construction and design allow the cover to stand up to the harshest forecourt conditions.

### Solid Construction, No Compromise

We don't compromise with cheap wood or foam fillers. FLEX-ING™ brand Composite Manholes are constructed of many layers of high quality fibreglass bonded together with premium resin and then hand-finished with the utmost attention to quality. The end result is a durable, lightweight cover that not only meets, but exceeds, most testing standards.

### Greater Wall Thickness

FLEX-ING™ brand Composite Manholes feature a domed shape. At their centre, our manholes taper up from 1" to 1 1/4" in wall thickness while most competitive models remain at a uniform 1" wall thickness. This extra wall thickness provides minimal deflection and an extended service life.

### Quality Construction

A shallow handle hole and chest-style handle with backer plate keep the wall thickness higher around this high-impact area of the cover. 38" and 42" come standard with spring loaded handle and are available with Cam lock for rain tight applications. Additionally FLEX-ING™ brand Composite Manholes feature a 12 gauge skirt construction that is also powder coated for extreme protection.

## Specifications

- Constructed of many layers of high quality fibreglass bonded together with premium resin and then hand-finished with the utmost attention to quality.
- At their centre, our manholes taper up from 1" to 1 1/4" in wall thickness while most competitive models remain at a uniform 1" wall thickness. This extra wall thickness provides minimal deflection and an extended service life.
- A shallow handle hole and chest-style handle with backer plate keep the wall thickness higher around this high-impact area of the cover.
- 38" and 42" come standard with spring loaded handle and are available with Cam lock for rain tight applications.
- 12 gauge skirt construction that is also powder coated for extreme protection.
- Exceeds H20 and HS20 load standards (maximum axle load requiring support for the 32,000 or 16,000 pounds for each set of dual tire wheels)
- Slip resistant

Model	Diameter	Lid Thickness	Frame ID	Skirt Height	Skirt ID	Opening
38" manholes	39.00"	1.00"	39.75"	10.50"	37.00"	35.25"
42" manholes	43.94"	1.00"	44.50"	10.50"	42.00"	41.25"



## Order Information

Model	Description
14U-3810	38" Composite manhole lid, ring, and 10" skirt
14U-RT3810CL	38" Raintight Composite manhole with 10" skirt and cam locks
14U-3810C	38" Composite manhole lid only
14U-4210	42" Composite manhole lid, ring, and skirt (10")
14U-RT4210CL	42" Raintight Composite manhole with skirt (10") and cam locks
14U-4210C	42" Composite manhole lid only







# EBW Safe-Lite FRC Manways

EBW SAFE-LITE FRC manway covers are ultra lightweight. Engineered and tested to exceed the D.O.T. H20 load ratings. Covers weigh almost one-third less than steel which dramatically reduces injury potential during cover removal. Available in 12", 30", 36" and 42" sizes. The slide action cover further reduces the chance of injury by eliminating the need to bend down to remove or replace the cover.

- Exceeds D.O.T. Requirements - Engineered for high-strength and tested to over 50,000 lbs. load (2-1/2 times D.O.T. requirement) without failure.
- Fatigue Resistant - Product has undergone 30 year life simulation testing, with 11,000 loading cycles of 20,000 lbs. each.
- Lightweight - FRC composite covers weigh almost one-third less than steel. Lighter weight reduces back injuries, increases ease of access to manway and decreases shipping costs.
- Skirt Ring - Made of 1/4" rolled angle iron. Skirt is 14 gauge steel, built to handle the heaviest traffic.
- Slide Action Cover - Cover is removed and replaced by placing the slide action handle into the plate on the cover. No bending down to remove the cover.
- Cover Options - Bolted, non-bolted and slide on models. All covers are supplied with handles. Other colours available; call for details.
- Optional Aramid Covers - For extra wear protection at heavy traffic sites. Available for 36" and 42" models only.

Model	Description	Abdeckung AD
78148206	36" Access Cover (only) - Slide Action, Grey	39.5"
78148512GRY	36" Access Cover complete with skirt and frame assembly	—
78134101	Handle for Slide Action Cover Removal	—

M.H.ASS'Y, 36" SLID - 78148512GRY is not supplied with gasket. Gasket must be ordered separately. Gasket part number is NONBOLT KIT.





# Composite Access Covers

UPP™ brand composite access covers feature a lightweight, watertight design for safe and easy access to underground containment. Their large diameter openings provide a wide access point for larger containment spaces. For the ultimate in easy access, dip models of the composite access covers feature an integrated inspection port at the center of the cover lid. The locking mechanisms seal the cover down to prevent it from spinning out and thwart unwanted access.

## Highlights

- Two models available to accommodate varying applications and access opening size requirements. PCC90 models feature a 35" (900mm) diameter round access opening. PCR106 models feature a larger 42" (1,060mm) diameter access opening.
- Composite material is corrosion resistant even in the harshest forecourt conditions as well as resistant to chemical corrosion from petroleum and alcohols.
- Composite construction resists warping and delamination.
- Extremely hard wearing and durable, will not spin out, buckle or lose shape due to pressure forces from vehicles.
- Lockable design provides increased on-site security and safety.
- Anti-slip surface for increased safety.
- Integrated cover O-ring creates a watertight seal between the cover and frame.
- Dip models available with integrated inspection port.
- Locking mechanism key included.
- Access cover lifting handles make cover removal safe and easy (sold separately).
- Access cover skirts (sold separately).

## Specifications

### 35" (900mm) Composite Access Cover Specifications

- Clear opening: 35.4" (900mm)
- Weight: 146.6 lbs (66.5kg)

### 35" (900mm) Composite Access Cover Certifications

- The composite structure has been engineered and tested to the D.O.T H-20 and EN124:1994 C250/D400 PAS26 load ratings.
- BS EN 124 to Class D400 PAS26 structural integrity as tested by the Railway Engineering Inspection and Test Station, Product Quality Supervision and Inspection Center at the Ministry of Railways in Beijing.
- BS EN 124 to Class C250 structural integrity as tested by Lloyds British Testing plc.

### 42" (1,060mm) Composite Access Cover Specifications

- Clear opening: 41.75" (1,060mm)
- Weight: 88.2 lbs (66.5kg)

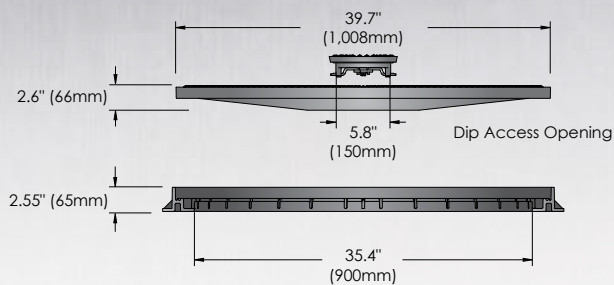
### 42" (1,060mm) Composite Access Cover Certifications

- EN124:1994 Class C250 structural integrity as tested by Lancaster University and Lloyds British Testing plc.

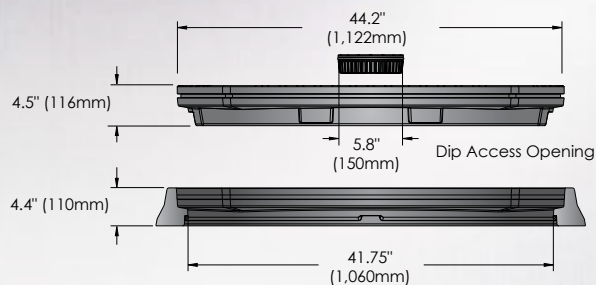


## Specifications - Continued

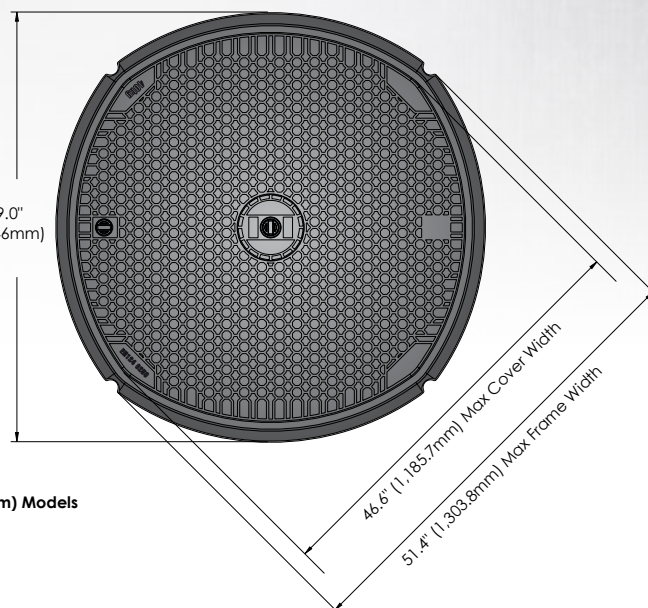
### Dimensions



35" (900mm) Models



42" (1,060mm) Models



## Order Information

### 35" (900mm) Composite Access Cover

Model	Description
PCC90	35" (900mm) composite access cover
PCC90-DIP	35" (900mm) composite access cover with integrated dip inspection port
PCC90-SK	Fiberglass skirt for PCC90
PCC-H	Lifting handle tool for PCC90 composite access cover
PCC-J	Replacement gasket for PCC90 composite access cover (between lid and frame)
PCC90-LK	Locking Mechanism for PCC90
PCC90-C	Spare cover for 35" (900mm) composite access cover
PCC90-DIP-C	Spare cover for 35" (900mm) composite access cover with integrated dip inspection port
PCC90-K	Locking key for PCC90 composite access cover
PCC90-DIP-P	Spare dip cap for PCC90 composite access cover

### 42" (1,060mm) Composite Access Cover

Model	Description
PCR106	42" (1,060mm) composite access cover
PCR106-DIP	42" (1,060mm) composite access cover with integrated dip inspection port
PCR106-OCH1400-SK	Fiberglass skirt for PCR106, for use with OCH tank camber
PCR106-TSM4542-SK	Fiberglass skirt for PCR106, for use with TSM tank camber
PCR-LIFT	Lifting handle tool for PCR106 composite access cover
PCR106-S	Replacement gasket for PCR106 composite access cover (between lid and frame)
PCR-DIPCAP	Replacement dip cap for PCR106 composite access cover (between lid and frame)
PCR-LOCK	Replacement locking mechanism for PCR106 composite access cover (between lid and frame)







# Monitoring Well Manways

EBW™ brand 8", 10", and 14" monitoring well manways are equipped with strong cast iron, bolt-down lids to provide limited access to entering the manway. A watertight seal prevents contamination and a heavy-duty cast iron rim protects the manway from forecourt traffic. The lid features a distinctive triangle and the words "Do Not Fill - Test Well" which are both cast into the cover to meet API specifications.

## Specifications

### Materials

- 8" manway height / weight: 13" (330 mm) / 18 Lbs (8 Kg)
- 10" manway height / weight: 12" (305 mm) / 25 Lbs (11 Kg)
- 14" manway height / weight: 12" (330 mm) / 41 Lbs (19 Kg)

## Order Information

Model	Description
80840001	8" cast iron monitoring well
81030201	10" cast iron monitoring well
81430201	14" cast iron monitoring well



# Monitoring Well Cap Plugs

EBW™ brand monitoring well cap plugs expand on the inside diameter of the screen pipe casing to form a vapour and watertight seal. An integrated locking mechanism prevents unauthorized access. The locking mechanism features a captured bolt, eliminating potential drop-out. The cap is a distinctive yellow colour and features the words "Do Not Fill - Monitor Well" which is molded into the cap.

## Specifications

- Body: Corrosion-proof plastic
- Gasket: Buna-N.

## Order Information

Model	Description
77210601	2" monitoring well cap plug (51 mm)
77210201	4" monitoring well cap plug (102 mm)
77210901	6" monitoring well cap plug (152 mm)





# Monitoring Well Screen Pipe

EBW™ brand monitoring well screen pipes facilitate groundwater testing by allowing groundwater to pass through horizontal slots in the pipe. The screen pipe features precision cut slot apertures that provide a measured and uniform barrier to ingress with no sharp edges to damage the filter sock or oversized apertures that can allow bulging and perforation of the filter sock.

## Specifications

- The screen pipe must be installed with the included bottom cap to prevent any bypass of the well screen pipe apertures and filter wrap.
- The screen pipe is intended to be installed together with a filter wrap.

## Order Information

Model	Description
77320001	2" x 13' monitoring well screen pipe (51 mm x 396 cm)
77320002	4" x 13' monitoring well screen pipe (102 mm x 396 cm)
77320003	6" x 13' monitoring well screen pipe (152 mm x 396 cm)
77320004	4" x 15' monitoring well screen pipe (102 mm x 457 cm)



# Monitoring Well Filter Wrap

EBW™ brand monitoring well filter wrap is used on the outside of monitoring well screen pipe to further prevent fine soil from entering and blocking the slots.

## Specifications

- Body: Spun bound polypropylene
- Micron rating: 250 microns
- Available in 100' (3048 cm) rolls

## Order Information

Model	Description
77310002	2" x 100' monitoring well filter wrap (51 mm x 3048 cm)
77310004	4" x 100' monitoring well filter wrap (102 mm x 3048 cm)







# Monitoring Well Packages

The EBW™ brand offering of monitoring well equipment includes all of the necessary hardware components necessary to operate and properly maintain a monitoring well. When combined with the INCON™ brand TS-MWS monitoring well brite sensor, you have the ability to accurately detect the presence of hydrocarbon floating on groundwater. This can be programed to trigger a number of alarm actions, allowing you to react immediately.

## Specifications

- 8", 10", and 14 " manyway options.
- 2", 4" and 6" cap plug options.
- 2", 4" and 6" screen pipe options.
- 2" and 4" screen pipe filter wrap options.
- Monitoring well discriminating liquid sensor.

## Order Information

Model	Description
808-4-K	(1) 808-400-01 8" manway, (1) 772-102-01 4" cap plug, and (1) 773-200-02 4" screen pipe
810-6-K	(1) 810-302-01 10" manway, (1) 772-109-01 6" cap plug, and (1) 773-200-03 6" screen pipe

Note: Filter wrap and liquid sensor sold separately.



# Probe Access Manhole

FLEX-ING™ brand probe access manholes offer an ideal solution for housing fuel management systems electronics and providing tank access with isolation from backfill.

## Specifications

- Height: 14.88" (377.95 mm)
- Cover diameter: 21.87" (550.50 mm)
- Bottom diameter: 14.88" (377.95 mm)
- Mounting bolts: 3/8" hex head mounting bolts with built-in washers bolt into anchors with couplings

## Order Information

Model	Description
20URTATG	Probe access manhole
81830701	Replacement cover with plain lid top





# FIREFLEX Flexible Connectors

Since their introduction in 1995, FLEX-ING™ FIREFLEX Flexible Connectors have quickly become the industry standard and benchmark for quality as a means to easily connect pipework system to other systems components such as submersible pumps or shear valves. The benefit of their use is undeniable. They have quickly become an integral part of any installation. Installers love their ease of installation while station owners have come to depend on their durability and how easy they make regular maintenance. With tons of available options, Franklin Fueling Systems has the right connector to fit any application.

## Highlights

### Flexibility is Key

When it comes to Flexible Connectors, flexibility is key. The tight working conditions found in dispenser and tank sumps provide little room for installers to work, motivating some manufacturers of flexible connectors to sacrifice overall strength for flexibility. With FLEX-ING™ FIREFLEX Flexible Connectors, there's no need to compromise. Their corrugated fuel contact layers feature a 25% thicker metal construction and gain flexibility from having more corrugations per foot rather than thinner walls.

### Quality Construction

Enclosing the corrugated fuel contact layer is a stainless steel braid that is manufactured from only high-grade stainless steel. The precision braiding process used to manufacture the braid gives strength while still maintaining flexibility. These layers are tied together with a hand-welded coupler ring, and are factory pressure-tested for zero leaks.

### Ready for Anything

FLEX-ING™ FIREFLEX Flexible Connectors are available in a multitude of end connections to ensure the right fit for any application - including tees, elbows and FRP transitions. Standard male and female end connections with integrated hex-head surfaces provide easy installation and tightening. The male swivel end connection option allows for the ultimate in ease of installation. The male swivel end connection option features a three-gasket, x-ring seal design. This adds up to a total of six seals, eliminating potential leak paths.

### EZ Fit Flexible Connectors

The EZ FIT union style coupling system is specifically designed to make connections in confined spaces simple and tight. The entire flexible connector assembly can be quickly and easily disconnected and pulled out of the inline system without breaking pipe. This feature makes installation fast and regular maintenance simple to carry out. Each EZ FIT union style coupling comes complete with couplers and gaskets..

## Specifications

- USA NFPA 30-A fire rated
- All metal construction means one flexible connector for both above and below ground applications
- An 18-8 alloy outer shell, 321 Stainless Steel inner core provides a long service life
- Thick, schedule 80 hex end fittings protect against deformation of the ends
- 100% pressure tested to assure quality
- UL 2039 listed for 50psi working pressure
- EZ FIT clamp and gasket are included with each assembly

### Approvals

- UL 2039 listed for above and below ground installation; for use with gasoline, gas alcohol blends (up to E85), diesel and biodiesel.

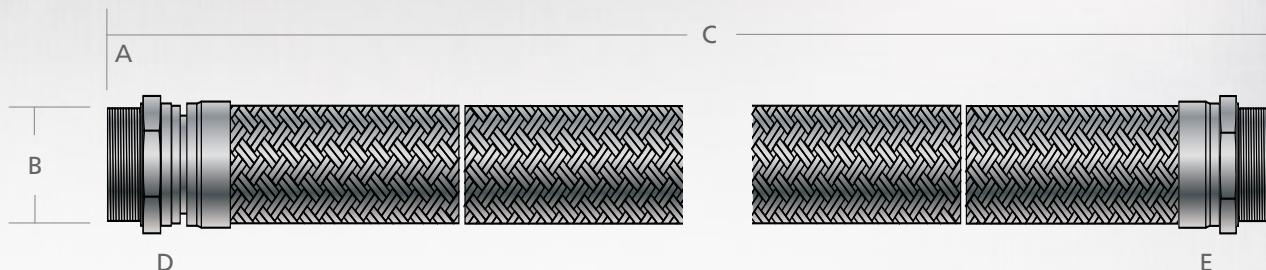


## Order Information

Use these diagrams below along with the Ordering Guide at the bottom of the page to help you build your flexible connector model numbers.

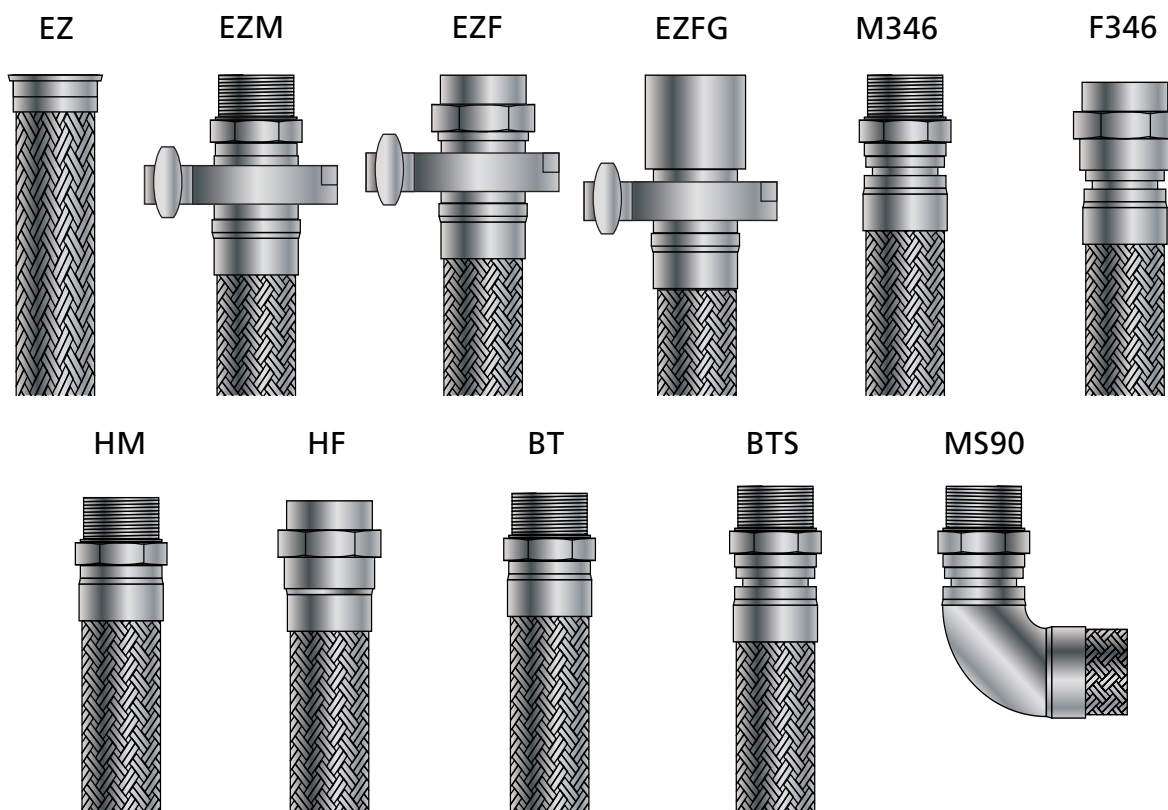
### Ordering Options Diagram

Use the options and descriptions in the Ordering Guide along with this diagram to assist in building your model numbers.



### End Fitting Options

Use the options and descriptions in the Ordering Guide along with the diagrams below to select your end fitting types (two total).



## Order Information - continued

### Ordering Guide

#### A B X C D X E

- **A = Product Type**
  - FF = If either of the end connections are any type of swivel, this option must be selected.
  - FFUL = If both end connections are fixed (non-swivel), this option must be selected.
- **B = Hose Diameter**
  - 07 = ¾"
  - 10 = 1"
  - 15 = 1½"
  - 20 = 2"
  - 30 = 3"
  - 40 = 4"
- **C = Overall Length in Inches**
  - Use two-digit format
- **D & E = End Fitting Options**
  - EZ = EZ FIT flange only
  - EZM = EZ FIT male NPT (Each EZ FIT union style coupling comes complete with couplers and gaskets)
  - EZF = EZ FIT female NPT (Each EZ FIT union style coupling comes complete with couplers and gaskets)

- EZFG = EZ FIT fibreglass glue pipe (Each EZ FIT union style coupling comes complete with couplers and gaskets)
- M346 = Male swivel NPT
- F346 = Female swivel NPT
- HM = Hex male fixed NPT
- HF = Hex female fixed NPT
- BT = Hex male fixed BSPT
- BTS = Male swivel BSPT
- MS90 = 90° with male swivel NPT

*Example: FF20X18M346XHM = FIREFLEX flexible connector with swivel end fitting(s), 2" hose diameter, 18" overall length, with one male swivel end fitting and one fixed hex male end fitting.*

*Note: Additional options are available. If the options you need are not show, contact Customer Service for assistance.*

### Common Models

You can also select from the following most-common flexible connector model numbers.

### Vertical Connection into Bottom of 362 Series Vapour or 662 Series Product Shear Valve

Model	Description	Metric Length
FIREFLEX 1-1/2"X10" Fixed male by swivel male-BSPT	FF15X10BTXBTS	250 mm
FIREFLEX 1-1/2"X12" Fixed male by swivel male-BSPT	FF15X12BTXBTS	300 mm
FIREFLEX 1-1/2"X14" Fixed male by swivel male-BSPT	FF15X14BTXBTS	350 mm
FIREFLEX 1-1/2"X16" Fixed male by swivel male-BSPT	FF15X16BTXBTS	400 mm
FIREFLEX 1-1/2"X18" Fixed male by swivel male-BSPT	FF15X18BTXBTS	450mm
FIREFLEX 1-1/2"X20" Fixed male by swivel male-BSPT	FF15X20BTXBTS	500 mm
FIREFLEX 1-1/2"X24" Fixed male by swivel male-BSPT	FF15X24BTXBTS	600 mm
FIREFLEX 2"X10" Fixed male by swivel male-BSPT	FF20X10BTXBTS	250 mm
FIREFLEX 2"X12" Fixed male by swivel male-BSPT	FF20X12BTXBTS	300 mm
FIREFLEX 2"X14" Fixed male by swivel male-BSPT	FF20X14BTXBTS	350 mm
FIREFLEX 2"X16" Fixed male by swivel male-BSPT	FF20X16BTXBTS	400 mm
FIREFLEX 2"X18" Fixed male by swivel male-BSPT	FF20X18BTXBTS	450mm
FIREFLEX 2"X20" Fixed male by swivel male-BSPT	FF20X20BTXBTS	500 mm
FIREFLEX 2"X24" Fixed male by swivel male-BSPT	FF20X24BTXBTS	600mm

### Connection at Pump Manifold - All NPT

Model	Description	Metric Length
FIREFLEX 2" X 15" Fixed Hex male x welded 90 elbow w/ Swivel male-NPT	FF20X15HMXMS90	375 mm
FIREFLEX 2" X 18" Fixed Hex male x welded 90 elbow w/ Swivel male-NPT	FF20X18HMXMS90	450 mm
FIREFLEX 2" X 24" Fixed Hex male x welded 90 elbow w/ Swivel male-NPT	FF20X24HMXMS90	600 mm





## Order Information - continued

### Connection at Pump Manifold - NPT Pump End, BSPT Pipe End

Model	Description	Metric Length
FIREFLEX 2" X 24" Fixed Hex male-BSPT x welded 90 elbow w/ Swivel male-NPT	FF20X24BTXMS90	600 mm

### Specialty FIREFLEX Flexible Connectors

#### MOC Specified Product for Connection at Pump Manifold - NPT Pump End, Square Face Flange on Pipe End

Model	Description	Metric Length
FIREFLEX 2" X 13" SS Ball Valve w/ UPP Brass Sq. Face Flange on one end, Male swivel on other X welded 90 to male swivel-NPT	FF20X13SFBVSSM-SXMS90	325 mm
FIREFLEX 2" X 16" SS Ball Valve w/ UPP Brass Sq. Face Flange on one end, Male swivel on other X welded 90 to male swivel-NPT	FF20X16SFBVSSM-SXMS90	400 mm
FIREFLEX 2" X 18" SS Ball Valve w/ UPP Brass Sq. Face Flange on one end, Male swivel on other X welded 90 to male swivel-NPT	FF20X18SFBVSSM-SXMS90	450 mm
FIREFLEX 2" X 20" SS Ball Valve w/ UPP Brass Sq. Face Flange on one end, Male swivel on other X welded 90 to male swivel-NPT	FF20X20SFBVSSM-SXMS90	500 mm
FIREFLEX 2" X 22" SS Ball Valve w/ UPP Brass Sq. Face Flange on one end, Male swivel on other X welded 90 to male swivel-NPT	FF20X22SFBVSSM-SXMS90	550 mm
FIREFLEX 2" X 24" SS Ball Valve w/ UPP Brass Sq. Face Flange on one end, Male swivel on other X welded 90 to male swivel-NPT	FF20X24SFBVSSM-SXMS90	600 mm
FIREFLEX 2" X 30" SS Ball Valve w/ UPP Brass Sq. Face Flange on one end, Male swivel on other X welded 90 to male swivel-NPT	FF20X30SFBVSSM-SXMS90	750 mm

### Flexible Connectors with Differing Hose and End Fitting Diameters

All end fittings are, by default, the same diameter as the hose. If you require a flexible connector where the end fitting diameter does not match the hose diameter, the size must be indicated numerically in front of the corresponding fitting as in the following example.

*Example : FFUL15X18HMX2HM = FIREFLEX flexible connector with fixed end fittings, 1½" hose diameter, 18" overall length, with one 1½" hex male fixed end fitting and one 2" hex male fixed end fitting.*

#### Rules:

- End fitting diameters can not be smaller than hose diameters.
- Only one hose fitting per flexible connector can be of a different diameter than the hose diameter.
- End fitting diameter must only be one size larger than hose (1" hose could use 1½" fitting, 1½" hose could use 2" fitting, etc.)





# FIREFLEX EZ FIT Accessories

Model	Description
EZFITXEZFIT	EZ FIT x EZ FIT
EZBLANK	EZ FIT blank
EZ30BLANK	3" EZ FIT blank
EZXEXZ20BV	EZ FIT x EZ FIT x 2" ball valve
EZX20BV	EZ FIT x 2" ball valve
EZXEZ90	EZ FIT x EZ FIT x 90°
EZ30XEZ3090	3" EZ FIT x 3" EZ FIT x 90°
EZXEXEZTEE	2" EZ FIT x 2" EZ FIT x 2" EZ FIT tee
EZ30XEZ30XEZ30T	3" EZ FIT x 3" EZ FIT x 3" EZ FIT tee
EZX15HM90	EZ FIT x hex male 90°
EZX20HM90	EZ FIT x hex male 90°
EZX30M90°	EZ FIT x 3" male 90°
EZX20HF90	EZ FIT x 2" female 90°
EZX30F90	3" EZ FIT x 3" female 90°
EZX20FG90	EZ FIT x 2" female glue pipe for FRP 90°
EZX30FG90	3" EZ FIT x 3" female glue pipe for FRP 90°
EZX20FGTEE	EZ FIT x 2" female glue pipe for FRP tee
EZX15HMPL	1 1/2" EZ FIT x hex male
EZX20HMPL	2" EX FIT x hex male
EZX30MP	3" EZ FIT x 3" male
EZX20HFPL	EZ FIT x 2" female
EZ30X30FP	3" EZ FIT x 3" female
EZX20FGPL	EZ FIT x 2" female glue pipe for FRP
EZX30FGPL	3" EZ FIT x 3" female glue pipe for FRP
EZCLAMP	EZ FIT clamp
EZ30 CLAMP	3" EZ FIT clamp
EZGASKET	EZ FIT gasket
EZ30GASKET	3" EZ FIT gasket





# FIREFLEX Isolation Accessories

These protective sleeves are constructed with durable, state-of-the-art engineered polymers which are resistant to fuels and other corrosive materials to provide an extended service life.

## Order Information

### Yellow Jacket Easy Fit Boot

The Yellow Jacket Easy Fit Boot features a Velcro™ seal making it easy to install on existing piping systems or new installations.

Model	Description
YJVSLEEVE	30" Yellow Jacket Easy Fit boot with Velcro™ seal
YJVSLEEVE25	25' Yellow Jacket Easy Fit boot with Velcro™ seal
YJVSLEEVE50	50' Yellow Jacket Easy Fit boot with Velcro™ seal
YJVSLEEVEII	30' Yellow Jacket Easy Fit boot with Velcro™ seal, adhesive, straps and two mounting collars

### Yellow Jacket Boot

The Yellow Jacket Boot has the ability to be pulled back while the connection is being made and then slide back in place to seal off.

Model	Description
YJ32BOOT	3½" ID x 30" Yellow Jacket boot
YJ32BOOTKIT25	3½" ID x 30" Yellow Jacket boot boot, adhesive, straps and two mounting collars

### Yellow Jacket Heat Shrink Wrap

Model	Description
YJHS03	36" Yellow Jacket heat shrink wrap
YJHS20	20' Yellow Jacket heat shrink wrap
YJHS50	50' Yellow Jacket heat shrink wrap

### Heat Shrink Flex Wrap

Model	Description
FLEXWRAP47X03	4.7" x 3' heat shrink sleeve





# Anti Syphon Valves

EBW anti syphon valves are recommended for all aboveground storage applications to prevent fuel from exiting the storage tank in the event of a broken line or leak.

The anti syphon valves shut off product flow when lines are broken, preventing fuel spillage and fire hazards. Each valve has an adjusting mechanism allowing for various liquid head pressure settings within the valve range. The adjusting mechanism is lockable after the preferred setting is made. EBW anti syphon valves are set to maximum head pressure when shipped from the factory. The anti syphon valve also includes a pressure relief valve, eliminating thermal expansion of fluid in the lines.

## Highlights

- Hydrostatic pressure adjusting mechanism with durable weather cap.
- Built in thermal expansion pressure relief valve.
- 3/4" and 1" models are ideal for fuel oil and generator applications.
- Can be used in pressure systems.
- NFPA 30.
- API/RP 2000.

## Specifications

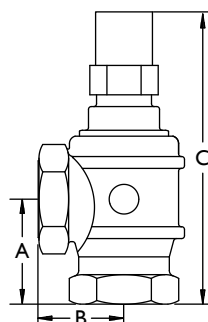
### Materials

- Body: ductile iron-zinc plated.
- Spring: zinc plated steel.
- Adjustment screw: stainless steel.
- Disc: fluorocarbon seal.

Model	A		B		C	
	In.	mm	In.	mm	In.	mm
605	2.22	56.38	1.8	45.72	5.94	150.88
606	2.22	56.38	1.8	45.72	5.94	150.88
616	2.61	66.29	2.18	55.62	6.56	141.22
636	2.66	67.56	2.68	68.32	6.97	151.63

### Approvals

- UL Listed



## Order Information

Model	Description	Size		Head Pressure Range	Weight	
		In.	mm		Lbs.	Kg
61630002	Anti-Syphon Valve 1.5" NPT	1.5	38.1	12' to 25'	4.6	2.09
63630011	Anti-Syphon Valve 2" NPT	2	50.8	5' to 12'	7.08	3.22
63630031	Anti-Syphon Valve 2" BSPT, AGB	2	50.8	5' to 12'	7.08	3.22
63630032	Anti-Syphon Valve 2" BSPT, AGB	2	50.8	12' to 25'	7.08	3.22

636 models are E-coated for AGB compatibility.



# Pressure Regulator Valves



The EBW 664 pressure regulator valve is designed to be used in conjunction with suction type dispensers connected to an aboveground storage tank. The pressure regulator valve prevents fuel from flowing to the pumping unit and flowing out the vent tube of the self-contained dispenser when the pump is not activated. The pressure regulator valve is a vacuum actuated valve which will not allow product flow until the suction of the pumping unit opens the valve. The valve closes by means of an internal spring when pumping is complete.

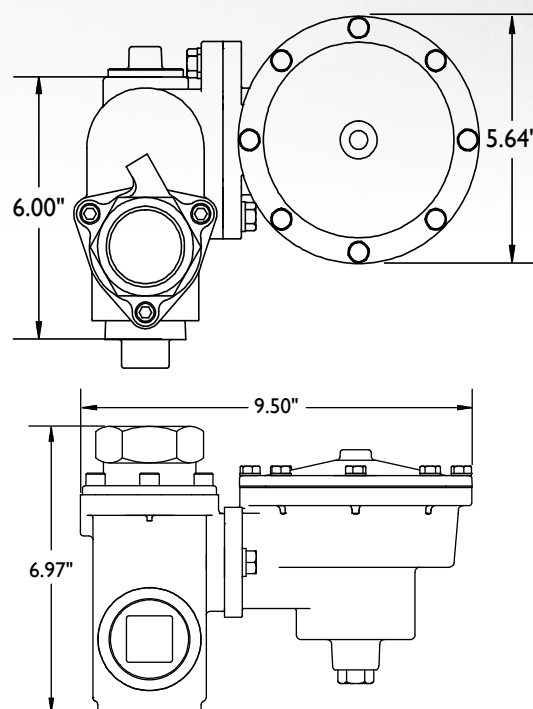
## Highlights

- Hydrostatic pressure adjusting mechanism with durable weather cap.
- Built in thermal expansion pressure relief valve.
- Shear section is standard, eliminating need for an additional shear valve.
- NFPA 30.
- API/RP 2000.

## Specifications

### Materials

- Body: cast iron.
- Seals: fluorocarbon.
- Filter: stainless steel.
- Poppet: fluorocarbon.



## Order Information

Model	Description	Weight Lbs.	Kg
66430201	Male-NPT	19	8.62
66430202	Union	19.3	8.75
66430203	Female-NPT	19	8.62
66430206	Female-Poppeted	19	8.62
66430226	Female-BSPT	19	8.62

Model	Description
66222001	Male replacement adapter
66222101	Union replacement adapter
66222201	Female replacement adapter for 664-302-03
66421101	Female Replacement Adaptor for 664-302-06
66430401	Mounting bracket





# Warden® AST Overfill Prevention Valve

The EBW Warden® is designed to provide a positive shut-off during a pressurised fill delivery on an aboveground storage tank. It eliminates spills and overfills, avoiding costly cleanup expenses and ground contamination. The Warden® is fully adjustable to provide shut-off in various height and capacity aboveground tanks. It is designed to fit into a 4" fill riser, making installation on new and existing locations simple and quick. Designed with inverted floats for use in small or large rectangular tanks. Requires 4" minimum ullage.

Note: The Warden® is recommended for use with clean product only. Contaminated product may cause erratic operation or valve failure.

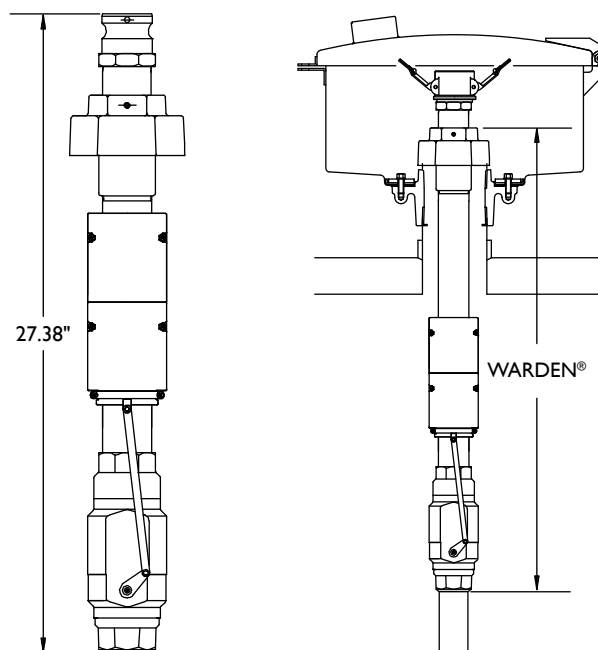
## Highlights

- Cylindrical float design eliminates interference with tank walls and cross braces.
- 100 psi working pressure rating.
- Flow rate 200 gpm at 20 psi.
- No minimum flow rate.
- Ships complete with upper nipple and tight fill adapter with crossbar to prevent open fills.
- Simply thread onto a 4" riser pipe to install. Length of upper tube determines shut-off point.

## Specifications

### Materials

- Valve body: aluminium 356-T6.
- Poppet: aluminium 356-T6.
- Shaft: stainless steel.
- Float: high density polyethylene.
- Nipple: epoxy coated black iron pipe.



## Order Information

Model	Description	Weight	
		Lbs.	Kg
70942001	Warden®, 4" overfill with inverted floats	12.5	5.67
77421220	2" dust cap	1.25	0.57







# Tank Vents

EBW tank vents are designed to provide an open path for vapours from an underground or aboveground storage tank to the atmosphere.

## Highlights

- Dome-shaped top design drains off moisture including rain, snow and ice.
- 30 mesh prevents dirt and debris from entering vent lines.

## Specifications

### Materials

- Body: aluminium.
- Lid: zinc plated steel.
- Seal: brass.

## Order Information

Model	Description	Pack		Weight	
		mm	In.	Kg	Lbs.
80020702	Vent Cap Aluminium Upward Discharge 2" Screw Fixing	51	2	0.42	1
80020301	Vent Cap Aluminium Upward Discharge 3" Screw Fixing	76	3	0.54	1.19



# Downward Tank Vents

EBW tank vents are designed to provide an open path for vapours from an underground or aboveground storage tank to the atmosphere.

## Highlights

- Dome-shaped top design drains off moisture including rain, snow and ice.
- 30 mesh prevents dirt and debris from entering vent lines.

## Specifications

### Materials

- Body: aluminium.
- Lid: zinc plated steel.
- Seal: brass.

## Order Information

Model	Description	Pack Size	Kg	Lbs.
VENT CAP 2	Vent Cap Aluminium Down Discharge 1.5"/2" BSPT	24	0.54	1.19

*Designed with two sets of female threads to engage a 1-1/2" or 2" [MC] BSPT male thread vent riser in same enclosure.*





# Pressure Vacuum Vents

EBW pressure vacuum vents are used on storage tank vent pipes to discharge vapours upward into the atmosphere. The top casting is dome-shaped to quickly drain off moisture including rain, snow and ice. Body and cover are cast aluminium. 2" and 3" models have vent rates of 8000 cubic feet per hour, and produce 8.0 ounces of pressure and 0.5 ounces of vacuum.

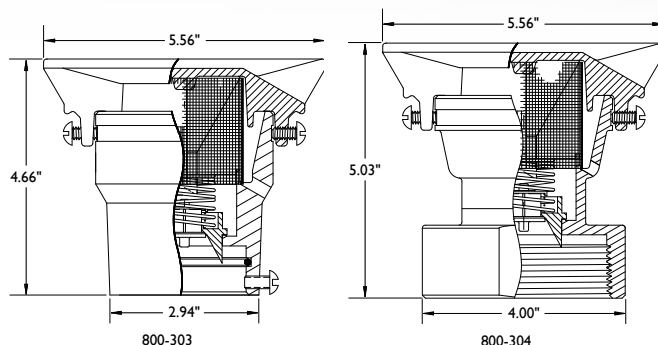
## Highlights

- Two model types available, NPT/BSPT threads or O-ring with locking screw.
- NFPA 30°

## Specifications

### Materials

- Body: aluminium.
- Poppet: acetal.
- Spring: stainless steel.
- Screws: zinc plated steel.
- Screen: brass.
- These vents should not be used on UST with a throughput of 100,000 gallons or more per month (per 40 CFR 63 subpart CCCCCC)..



## Order Information

Model	Description	Size		Weight	
		mm	In.	Kg	Lbs.
80230301	PV Valve Aluminium Upward Discharge 2" NPT	51	2	0.85	1.88
80230321	PV Valve Aluminium Upward Discharge 2" BSPT	51	2	0.85	1.88
80230302	PV Valve Aluminium Upward Discharge 2" Screw Fixing	51	2	0.83	1.84





# NPT Angle

Angle check valves are used on suction system fuel lines to maintain prime. EBW angle check valves are installed at the top of an underground storage tank suction line. Single poppet models are typically used where access to the valve is readily available.

## Specifications

### Materials

- Body: zinc plated cast iron.
- Seat: brass.
- Poppet: brass.
- NPT: brass.
- Spring: stainless steel.

## Order Information

Model	Pack In.	Poppet Type	Weight	
			Kg	Lbs.
63520101	2	Single	3.3	7.25



# 1.5" Union

EBW union check valves are designed to be installed into an existing union to temporarily stop the loss of prime due to damaged foot valves, angle check valves, or vertical check valves in a suction system fuel line.

## Highlights

- Spring-loaded poppet.
- Open construction design allows for free flow of product.
- With or without protective screen.

## Specifications

### Materials

- Body: bronze.
- Poppet: acetal.
- Seal: fluorocarbon.
- Spring: stainless steel.
- Screen: brass.

## Order Information

Model	Pack		Screen	Weight	
	In.	mm		Lbs.	Kg
65010402	1.5	38.1	Yes	0.5	0.23
65010802	1.5	38.1	No	0.5	0.23



# Tools



EBW tank tools make installation faster, safer and easier. These heavy duty tools can be used for removal as well as installation, on new or existing systems. Hard-to-reach fill adapters are easily removed or installed with the EBW heavy duty chain wrench. It features a 3/4" drive to reach adapters located below grade level or in other difficult locations. EBW extractor wrenches were designed to easily remove or install valves, test plugs and pipe caps. The 321-100 is used with the EBW extractor foot valve, extractor vent valves and most competitor extractor fittings.

- Heavy duty construction.
- Wrench has cast iron head with steel chain.
- Wrench is steel constructed.

Model	Description	Application	Weight	
			Lbs.	Kg
32110001	60" extractor wrench	Remove and install	14	6.4
90110101	3/4" chain wrench	Remove and install	3	1.4



The T-6100-FT flaring tool reduces the installation time for 4" aluminium fill drop tubes. This flaring tool cuts and flares the tube in less than 10 minutes. Eliminates drilling, bolting and epoxying a factory-supplied drop tube.

- Cut tube.
- Flare tube.
- Fix small dents on tube.
- No drill required.

Model	Description
T-6100-FT	Flaring tool kit for flaring drop tubes

*Note: May require two week lead time, consult factory.*



This 4" x 4" threaded riser adapter installs at the top of the 4" field-installed tank riser for a precision sealing surface for spill containers and probe adapters. Adds 1-3/4" to riser length.

- Patent number 6,840,549 B1.
- EVR Phase 1 Certification VR-101.
- Tracer tight approved.
- Missouri MOPETP approved APCP-0002-001-99.

Model	Description
M/F 4x4	4" x 4" threaded riser adapter



Alignment brackets to keep riser pipes supported at 16" or centre-to-centre separation for alignment into multi-port cover.

- EVR Phase 1 Certification VR-101.
- Missouri MOPETP approved APCP-0002-001-99.

Model	Description
M-1600	Riser alignment bracket for 16" centre





Designed to install and remove Phil-Tite and competitive make spill containers and swivel adapters. Each tool is colour-coded to perform specific functions.

Model	Description
Black adapter	Phil-Tite spill containers
Orange adapter	Phil-Tite fill and vapour swivel adapters and M/F 4×4 riser adapters
T-handle	Attaches to colour-coded tools
Allen wrench	Removes screw protecting threaded openings for jackscrews

Model	Description
T-7001	T-handle for installation tool kit
T-7002-A	Black heavy duty adapter used to install removable Phil-Tite spill buckets
T-7002-HD	Heavy duty spill bucket removal tool, includes T-7002-A adapter and T-handle with handle weights
T-7043	Tool kit required to install a Phil-Tite spill container, tool kit items listed above
T-7100	Red adapter tool used to remove old fill non-swivel adapters with lugs
T-7102	Orange adapter tool, used to remove or install SWF-100-B and SWV-101-B swivel adapters and M/F 4×4 riser adapters
T-7103	Blue adapter tool, used to install OPW tall swivel adapters
T-7104	Green torque adapter tool for static torque testing on any swivel adapter
T-7200	Cast iron cover removal tool
T-7106	Defender Series spill container installation tool
T-7107	Defender Series spill container double wall vacuum test kit



Keeps debris out of the filter area of the spill container. Easily removed and cleaned.

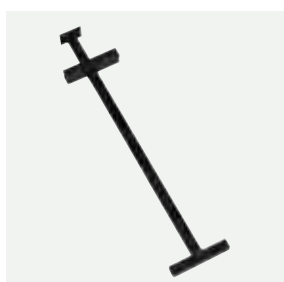
- EVR Phase 1 Certification VR-101.
- Missouri MOPETP approved APCP-0002-001-99.

Model	Description
PP-1005-TB	Debris bucket without pump
PP-1005-TBP	Debris bucket with pump



Designed for separation and orderly support of piping runs. Intended to be buried for permanent installation.

Model	Description
48-409	Styrofoam piping supports, 20-pack



Used to ease the removal of cast iron covers.

Model	Description
T-7200	Cast iron cover removal tool







# Pipe Guards & Bollards

Protect property and avoid costly damage to dispensers with these schedule 40 pipe guards and bollards.

## Highlights

- Available in straight pipe or double radius.
- Schedule 40 pipe construction.
- Primer finished, ready for your custom paint.
- Stainless steel mill finish available upon request.
- Bollards available with or without caps.

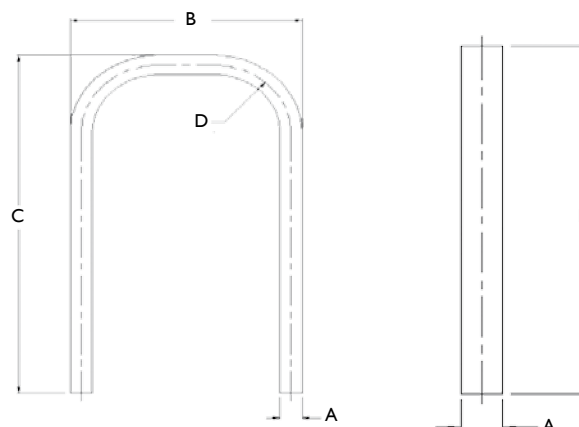
## Order Information

### U-Shaped Pipe Guards

Model	A	B	C	D
BGU35565414	3.5"	36"	54"	14"
BGU35415314	3.5"	41"	53"	14"
BGU35485014	3.5"	48"	50"	14"
BGU40365614	4.0"	36"	56"	14"
BGU40415314	4.0"	41"	53"	14"
BGU40417414	4.0"	41"	74"	14"
BGU40435414	4.0"	43"	54"	14"
BGU40485114	4.0"	48"	51"	14"

### Bollards

Model	A	B
BGS4042	4.0"	42"
BGS4063	4.0"	63"
BGS4072	4.0"	72"
BGS6063	6.0"	63"
BGS6072	6.0"	72"
BGS6084	6.0"	84"



Note: Do not store primed units outside as primer alone will not prevent rust when exposed to elements





# Remote Fill Box

These stainless steel remote fill boxes house valves, fittings and connectors required for the remote filling of underground storage tanks. The remote fill boxes are available in a variety of configurations, connection sizes and mounting styles and can be ordered as pre-plumbed (including valves, fittings, and connectors) or not plumbed.

## Highlights

- Lockable door.
- Hand pump with shut-off valve.
- Inlet connection with quick couplers and dust caps.
- Internal pre-plumbed check valves, fittings and shut-off valves.
- Wall or post-mount brackets.
- Optional vapour recovery bracket.
- Available with 2" or 3" threaded connections.
- Carbon steel version also available.

## Order Information

Model	Description	Höhe	Tiefe	Breite
RFBP-TOP	3" pre-plumbed box, top inlet	25.3"	25.5"	20.25"
RFBP-REAR	3" pre-plumbed box, rear inlet	25.3"	25.5"	20.25"
RFBNP-TOP	3" box only (not plumbed), top inlet	25.3"	25.5"	20.25"
RFBNP-REAR	3" box only (not plumbed), rear inlet	25.3"	25.5"	20.25"

# Wall Mount Remote Fill Box

The wall mount remote fill boxes feature a stainless steel enclosure design which houses valves, fittings and connectors required for the remote filling of underground tanks. The wall mount model is designed for external building wall applications.

## Highlights

- 14 gauge stainless steel construction.
- Hinged access door with gasket.
- Lockable handle.
- 18" deep spill compartment.
- 3/4" NPT drain connection.

## Order Information

Model	Description	Höhe	Tiefe	Breite
RFBP-WALL	Wall mount remote fill box	25.3"	25.5"	20.25"





# Flexible Connectors

for DEF/AdBlue®

FLEX-ING™ brand diesel exhaust fluid flexible connectors allow you to easily connect a pipework system to other systems components such as submersible pumps. Installers love their ease of installation while station owners have come to depend on their durability and how easy they make regular maintenance. The all-stainless steel construction provides complete compatibility with DEF (Diesel Exhaust Fluid)/ AdBlue®. With tons of available options, Franklin Fueling Systems has the right connector to fit any application.

## Highlights

- Enclosing the corrugated DEF/AdBlue® contact layer is a stainless steel braid that is manufactured from only high-grade stainless steel.
- The EZ FIT style coupling system is specifically designed to make connections in confined spaces simple and tight.
- Each EZ FIT male and female union style coupling comes complete with couplers and gaskets.

## Specifications

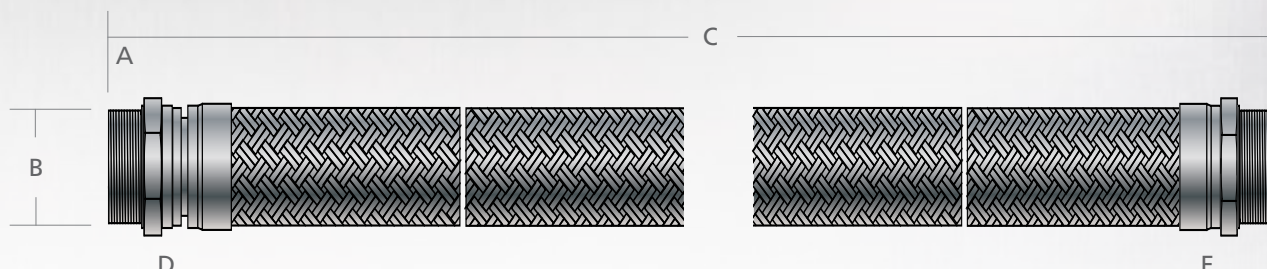
- All metal construction means one flexible connector for both above and below ground applications
- An 18-8 alloy outer wrap, 321 Stainless Steel inner core provides a long service life
- Thick, schedule 80 hex end fittings protect against deformation of the ends
- 100% pressure tested to assure quality
- 50 Psi working pressure
- EZ FIT clamp and gasket are included with each assembly
- Stainless steel fittings and EPDM gaskets are fully DEF/ AdBlue® compatible

## Order Information

Use these diagrams below along with the Ordering Guide at the bottom of the page to help you build your flexible connector model numbers.

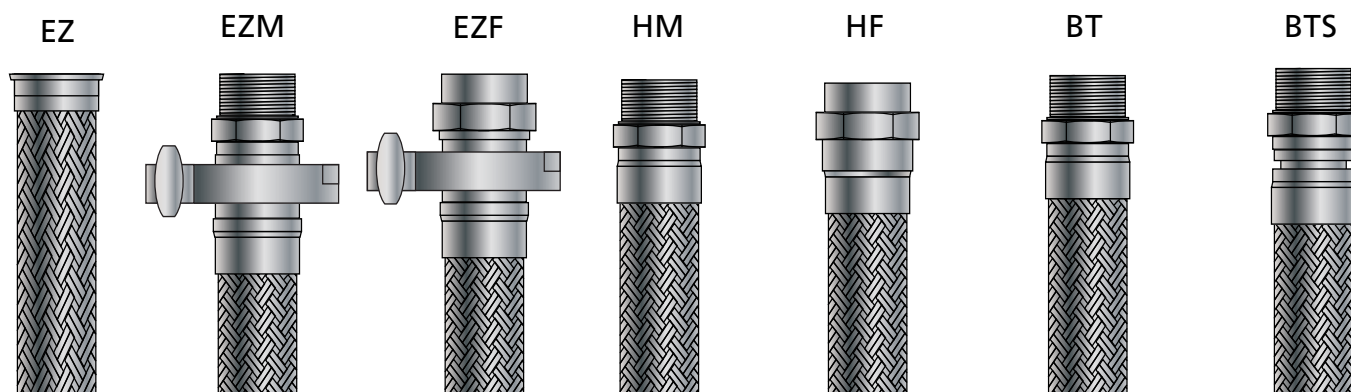
### Ordering Options Diagram

Use the options and descriptions in the Ordering Guide along with this diagram to assist in building your model numbers.



### End Fitting Options

Use the options and descriptions in the Ordering Guide along with the diagrams below to select your end fitting types (two total).



### Ordering Guide

#### DEF A X B C X D

- DEF = DEF/AdBlue® Flexible Connector
  - All materials are fully compatible with DEF/AdBlue® including stainless steel fittings and EPDM seals.
- A = Hose Diameter
  - 07 = ¾"
  - 10 = 1"
  - 15 = 1½"
  - 20 = 2"
  - 30 = 3"
- B = Overall Length in Inches
  - Use two-digit format

#### • C & D = End Fitting Options

- EZ = EZ FIT flange only
- EZM = EZ FIT male NPT (Each EZ FIT union style coupling comes complete with couplers and gaskets)
- EZF = EZ FIT female NPT (Each EZ FIT union style coupling comes complete with couplers and gaskets)
- M = Hex male fixed NPT
- F = Hex female fixed NPT
- BT = Hex male fixed BSPT
- BTF = Hex female fixed BSPT

*Example: DEF20X18MXEZM = DEF flexible connector, 2" hose diameter, 18" overall length, with one hex male fixed NPT fitting on one end and one EZ FIT male NPT fitting on the other (includes EZCLAMP and EZ20GASKET-EPDM).*



## Order Information - continued

### Flexible Connectors with Differing Hose and End Fitting Diameters

All end fittings are, by default, the same diameter as the hose. If you require a flexible connector where the end fitting diameter does not match the hose diameter, the size must be indicated numerically in front of the corresponding fitting as in the example below.

Rules:

- End fitting diameters can not be smaller than hose diameters.
- Only one hose fitting per flexible connector can be of a different diameter than the hose diameter.
- End fitting diameter must only be one size larger than hose (1" hose could use 1½" fitting, 1½" hose could use 2" fitting, etc.)

*Example : DEF15X18MX2M = DEF flexible connector, 1½" hose diameter, 18" overall length, with one 1½" hex male fixed NPT fitting on one end and one 2" male NPT fitting on the other.*

### Common Models

You can also select from the following most-common flexible connector model numbers.

Model	Description
DEF10X10MXEZM	DEF flexible connector, 1" hose diameter, 10" overall length, with one hex male fixed NPT fitting on one end and one EZ FIT male NPT fitting on the other
DEF10X12MXEZM	DEF flexible connector, 1" hose diameter, 12" overall length, with one hex male fixed NPT fitting on one end and one EZ FIT male NPT fitting on the other
DEF10X12MXM	DEF flexible connector, 1" hose diameter, 12" overall length, with one hex male fixed NPT fitting on one end and one hex male fixed NPT fitting on the other
DEF10X15MXM	DEF flexible connector, 1" hose diameter, 15" overall length, with one hex male fixed NPT fitting on one end and one hex male fixed NPT fitting on the other
DEF10X18MXM	DEF flexible connector, 1" hose diameter, 18" overall length, with one hex male fixed NPT fitting on one end and one hex male fixed NPT fitting on the other
DEF15X18MXEZM	DEF flexible connector, 1½" hose diameter, 18" overall length, with one hex male fixed NPT fitting on one end and one EZ FIT male NPT fitting on the other
DEF15X18MXM	DEF flexible connector, 1½" hose diameter, 18" overall length, with one hex male fixed NPT fitting on one end and one hex male fixed NPT fitting on the other
DEF20X12MXM	DEF flexible connector, 2" hose diameter, 12" overall length, with one hex male fixed NPT fitting on one end and one hex male fixed NPT fitting on the other
DEF20X18MXEZM	DEF flexible connector, 2" hose diameter, 18" overall length, with one hex male fixed NPT fitting on one end and one EZ FIT male NPT fitting on the other
DEF20X18MXM	DEF flexible connector, 2" hose diameter, 18" overall length, with one hex male fixed NPT fitting on one end and one hex male fixed NPT fitting on the other
DEF20X24MXEZM	DEF flexible connector, 2" hose diameter, 24" overall length, with one hex male fixed NPT fitting on one end and one EZ FIT male NPT fitting on the other
DEF20X24MXM	DEF flexible connector, 2" hose diameter, 24" overall length, with one hex male fixed NPT fitting on one end and one hex male fixed NPT fitting on the other
DEF20X30MXF	DEF flexible connector, 2" hose diameter, 30" overall length, with one hex male fixed NPT fitting on one end and one hex female fixed NPT fitting on the other





# Shear Valves

for DEF/AdBlue®

FLEX-ING™ brand 1½" diesel exhaust fluid shear valves shut off the flow of DEF/AdBlue® in the event of a vehicle collision with a dispenser preventing an excessive and uncontrolled release into the environment. The optional e-coated mounting bracket allows installation both in containment sumps beneath the dispenser as well as direct mounting to the concrete forecourt.

## Highlights

- Integrated wrench flats for easy installation.
- Mounting bracket kit allows for in-sump containment or flush mounting.
- Available with either 1½" NPT or BSPT inlet (bottom) and 1" NPT or BSPT outlet (top) options.

## Specifications

- Body: Stainless steel
- Mounting bracket: E-coated steel
- Height: 3¾" (95.25 mm)
- Break force: Under 650 pound-feet (884 N-m)
- Break force within parameters established by UL842 for product shear valves.
- Must be installed with locally supplied 1" rigid pipe threaded into outlet.

## Order Information

Model	Description
663100001	DEF shear valve, 1½" NPT inlet, 1" outlet
663100021	DEF shear valve, 1½" BSPT inlet, 1" outlet
66320000	Mounting bracket for DEF shear valve including U-bolt, nuts and bracket guides

# Fuel/Chemical Compatibility Chart to EN14125:2013 (Retail Specific)

## Automotive Fuels

- Gasohol (E1 to E10)
- Premium Unleaded Gasoline
- Regular Unleaded Gasoline
- Premium Leaded Gasoline
- Diesel

## Bio-Fuels & Blends

- Ethanol 100% (Ethyl alcohol)
- E85 - Ethanol 85% + Unleaded Fuel 15%
- E70 - Ethanol 70% + Unleaded Fuel C 30%
- Ethanol 50% + reference Fuel C 50%
- Ethanol 30% + reference Fuel C 70%
- Ethanol 10% + reference Fuel C 90%
- Biodiesel 10% to 100%

## Methanol Mixtures

- Methanol 100%
- Methanol 50% + Reference Fuel C 50%
- Methanol 15% + Reference Fuel C 85%

## Test Fuels & Fuel Additives

- UL971 – MV,CT,HB,AM
- ASTM Fuel C 100%
- EN14125:2013 Fuel 1
- EN14125:2013 Fuel 2
- No.2 Fuel Oil
- MTBE 10% + reference Fuel C 90%
- MTBE 15% + reference Fuel C 85%
- Toluene
- AdBlue\*

\* Requires stainless steel transition fittings.

## Aviation & Marine Fuels

- Jet A1 (Avtur)
- JP8 (F-34)
- Methmix
- Avgas
- Kerosene

## Trenches (Width, Depth & Fall Back)

It is important to construct proper trenches before laying UPP pipe. Trenches should be wide and deep enough to comfortably allow pipe runs, recommended spacing and backfill materials.

Recommended burial depth of UPP pipe is a minimum of 300mm (12").

All trenches should be sloped back towards the storage tanks with a recommended gradient of 1:100.

Vapour return lines must have a slope of 1:50 (1/4" per foot) and never less than 1:100 (1/8" per ft) back towards the tank farm, unless in-line joints such as elbows are to be used.

Trench corners should contain a radius suitable for the pipe work.

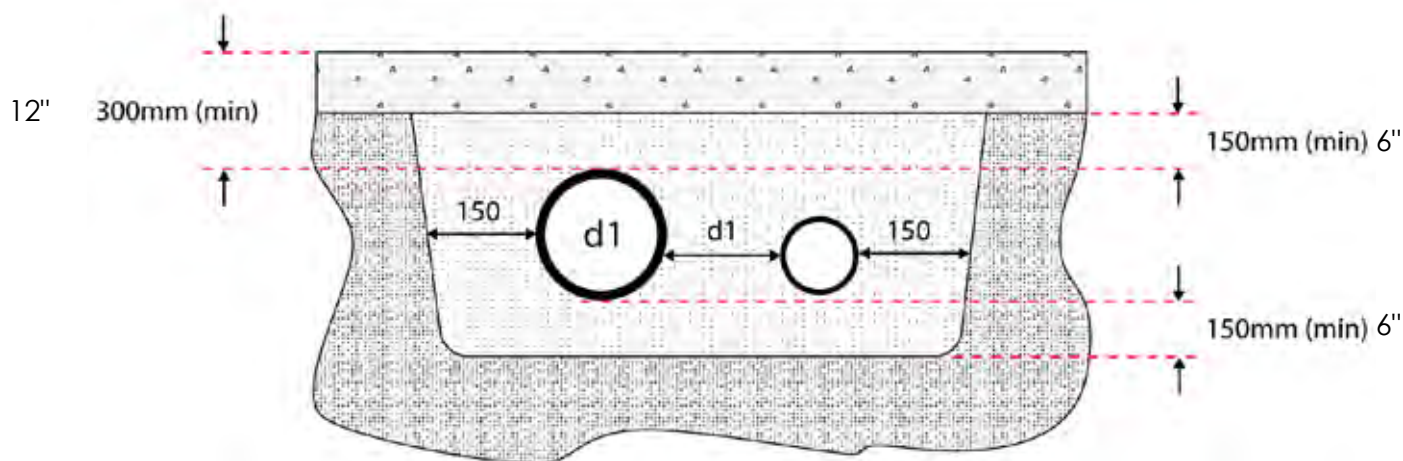


## Bedding

- A recommended 150mm (6") bed of backfill material should be laid underneath the prior to pipe installation and there must never be voids under or around the pipe.
- When laying duct onto a concrete base a 150mm (6") thick bed of compacted sand should be laid on the concrete, below the duct. (Absolute minimum amount of sand should be 50mm (2") of compacted sand).
- All beds should be laid so that the pipe will not dip or sag when it is installed.
- Underground pipe runs may be continuous or have electrofusion welded joints. Any mechanical joints or compression fittings must be inspectionable and located within a containment chamber or sump.
- UPP pipe exceeding 12m (40ft) should be laid in a series of large snake-like curves and not in straight lines. Uncoiled pipe, when laid, will settle in a natural curve.
- Generally any thermal expansion will be accounted for by following our guidelines for spacing, backfilling and ensuring runs are not dead straight.
- Pipes should be separated from each other by at least the diameter of the largest pipe.
- If pipe-runs cross each other they must be separated by at least as much backfill material as the diameter of the largest pipe or protected by using at least 25mm (1") of styrofoam.
- If used above ground, UPP pipe should be protected against mechanical, climatic and fire damage by wrapping it in radiation or thermal shielding tape. Additional supports and anchor points may also be required.
- Contact Franklin Fueling Systems Technical Services for more details concerning above ground installations (see page 86).

## Pipe Spacing

- Bed/backfill with pea-shingle, sand or crushed rock.
- Separate pipes by the diameter of the largest pipe in the run.
- For spacers and support use:
  - Expanded polystyrene (Styrofoam).
  - Pipe off-cuts.
  - Timber/block/brick (as temporary measures).
  - Sacks of backfill.



## Pressure / Vacuum Rating

The values listed below have been qualified by third party approvals testing.

UPP Extra & EN14125:2013 Pipes	Rated Pressure		Rated Vacuum		Typical Burst Pressure	
	Bar	Psi	Bar	"Hg	Bar	Psi
Primary Pipe	10	145	-0.9	-26.6	40	580
Secondary Pipe	5	58	-0.6	-17.7	20	290
Fill Pipe	6	87	n/a	n/a	30	435
Un-Lined Vent Pipe	10	145	-0.9	-26.6	40	580
Electrical Conduit	10	145	-0.9	-26.6	40	580
Corrugated Duct	n/a					

UL971 Pipes						
Primary Pipe	6.2	90	-0.9	-26.6	40	580
Un-Lined Vent Pipe	4	58	-0.6	-17.7	20	290

## Bend Radius

Q: Because UPP is semi-rigid, what Bend Radius is possible during installation?

A: This is largely temperature dependent, but in general you may use these values for single or double wall UPP delivered as coils:

		50 mm	63 mm	90 mm	110 mm
Warm weather	15 x Ø	80 cm	1 m	1.5 m	3 m
Cold weather	25 x Ø	140 cm	1.6 m	2.5 m	4 m
Very Cold weather	35 x Ø	190 cm	2.2 m	3.5 m	5 m

For UPP in 6 m straight lengths welded together and then curved to suit the required layout you can expect:

		50 mm	63 mm	90 mm	110 mm
Warm weather	30 x Ø	1.5 m	2 m	3 m	4 m
Cold weather	60 x Ø	3 m	3 m	5 m	6 m
Very Cold weather	80 x Ø	4 m	4 m	7 m	8 m

## Interstitial Volume

When using leak detection equipment it is often necessary to know the interstitial volume of double wall pipes to decide the amount of compressed gas or type of pumped detection unit required. Below are the volumes per metre of UPP pipework.

Double Wall Pipe							
Interstitial Volume	40/32mm	63/50mm	75/63mm	110/90mm	125/110mm	160/90mm	160/110mm
	(1")	(1½")	(2")	(3")	(4")	(3")	(4")
Litres / m	0.24	0.66	0.62	2.15	0.97	10.79	7.64
Cubic Inches / ft	4.40	12.29	11.52	39.93	18.01	200.73	142.12

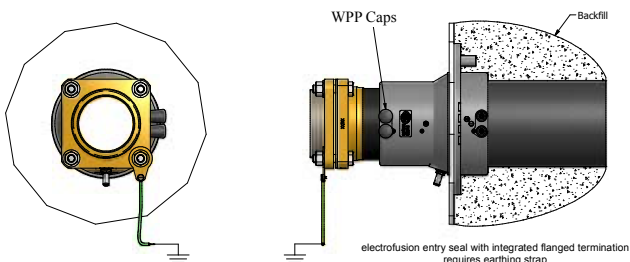
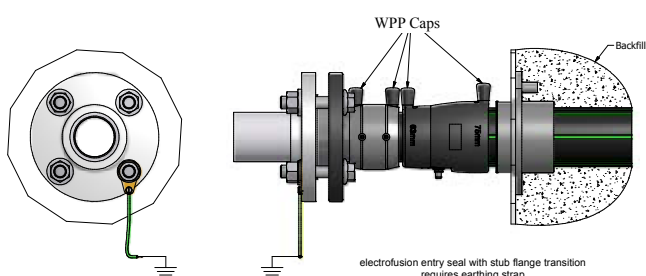
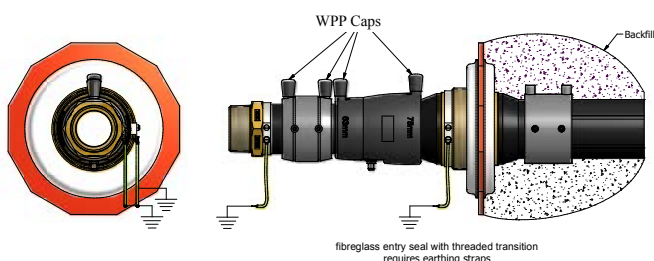
UL971 Double Wall Pipe				
Interstitial Volume	63/50mm	75/63mm	110/90mm	125/110mm
	(1½")	(2")	(3")	(4")
Litres / m	0.12	0.13	1.41	0.45
Cubic Inches / ft	2.25	2.43	26.21	8.35



# Electrofusion Safety

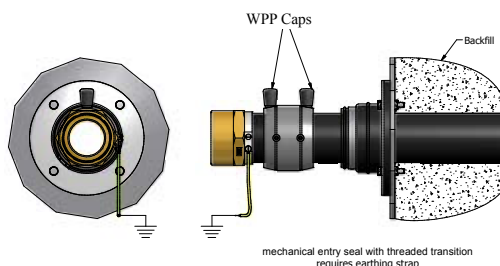
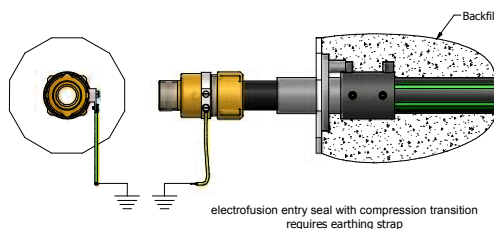
- UPP Welding Units must never be operated in Zone 1 or Zone 0 areas (Hazardous area definitions are from IP Model Code of Safe Practice Part 15 and are available in the APEA Blue Book 2nd Edition).
- UPP Welding units are suitable for use in Zone 2 areas with just the welding leads and fitting being welded positioned in a Zone 1 area.
- Ensure Welding Units are connected to a power supply that meets the requirements detailed in the user manual and are within the requirements of any local authority or regional legislation.
- UPP piping complies with all the requirements imposed by EN14125:2013 concerning electrostatic safety.
- The risk assessment against electrostatic hazard has demonstrated that the use of insulating material such as that used in UPP piping results in a safe choice.
- The safety of UPP systems rely upon the small capacitance and hence the small energy that they can accumulate. This energy, has been demonstrated to be well below the Minimum Ignition Energy or MIE required to ignite petrol or alcohol blended fuel
- Extensive studies simulating fuel flow situations much more severe than what can be found in underground pipework at petrol filling stations have demonstrated that UPP pipe cannot be a source of spark ignition. For this reason UPP pipe can be considered an inherently safe system with respect to the electrostatic risk
- The most important recommendation, common to any type of piping system is to connect safely to ground all metallic components. Metallic components, and more general conductive materials, thanks to their high capacitance can have the potential to store high amount of electrostatic energy (sparks discharge can only be observed over conductive elements).
- All exposed metal parts used in UPP System installations should be adequately grounded to a dedicated earth electrode and brought to a potential equal to that of other metal parts in the close proximity.

All UPP metal transition fittings in the fill box, at the tank top and under the dispenser should be adequately earthed according to local electrical regulations. If in doubt the resistance of grounding should be  $\geq 100k\Omega \leq 1M\Omega$ . Earthing cables should be plastic covered copper conductors of at least 4mm<sup>2</sup> cross sectional area and should be connected to an exclusive earth electrode.



Note: The metal fittings at the tank manhole should be at equal potential so additional cables may be required to interconnect the metal fittings.

The drawings show how to ground various types of UPP metal transition fittings:





## Weld Pin Protection Caps

Paragraph 5.6.2 of EN 14125:2004 requires that the terminal pins of electro-fusion couplers which are not buried in the ground shall be closed with plastic caps. The purpose is to prevent any possible ignition hazard resulting from a static electricity discharge.

Franklin Fueling Systems Ltd has designed a multi-purpose cap to suit all electro-fusion fittings in the UPP System range. The design and materials have been third-party tested and certified as fit-for-purpose.

The caps are only required to be fitted when the coupler is in air (not buried) and when an explosive atmosphere is or may be present, i.e. inside chambers & sumps which are classified as Zone 0, 1 or 2.

- Refer to IP 15 - IP Model Code of Safe Practice Part 15 Area classification code for installations handling flammable fluids, 2nd edition - for a definition of these hazardous areas.

Weld Pin Protection Caps are compatible with all UPP fusion elements such as those for primary and secondary pipework and electro-fusion entry seals. The UPP System Weld Pin Protection Caps have the same fuel resistance as UPP containment products in which they are designed to be used.

1. After executing a fusion weld according to the Franklin Fueling Systems electrofusion assembly process wait for the 20 minutes cooling time.
2. Press one cap firmly over each shroud surrounding the pin.
3. Tap cap with light hammer to ensure it is fully seated.
4. Inspect all of the chamber / sump area to ensure that all unburied electro-fusion fittings have been securely fitted with Weld Pin Protection Caps.



If you wish to contact us about any of our products or services please contact the nearest Franklin Fueling Systems office.  
For a list of local contacts please visit [franklinfuelling.com](http://franklinfuelling.com) for more information.

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