

PRODUCT CATALOGUE

FRANKLIN FUELING SYSTEMS

PIPING & CONTAINMENT SYSTEMS
SERVICE STATION HARDWARE



Franklin Fueling Systems



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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.

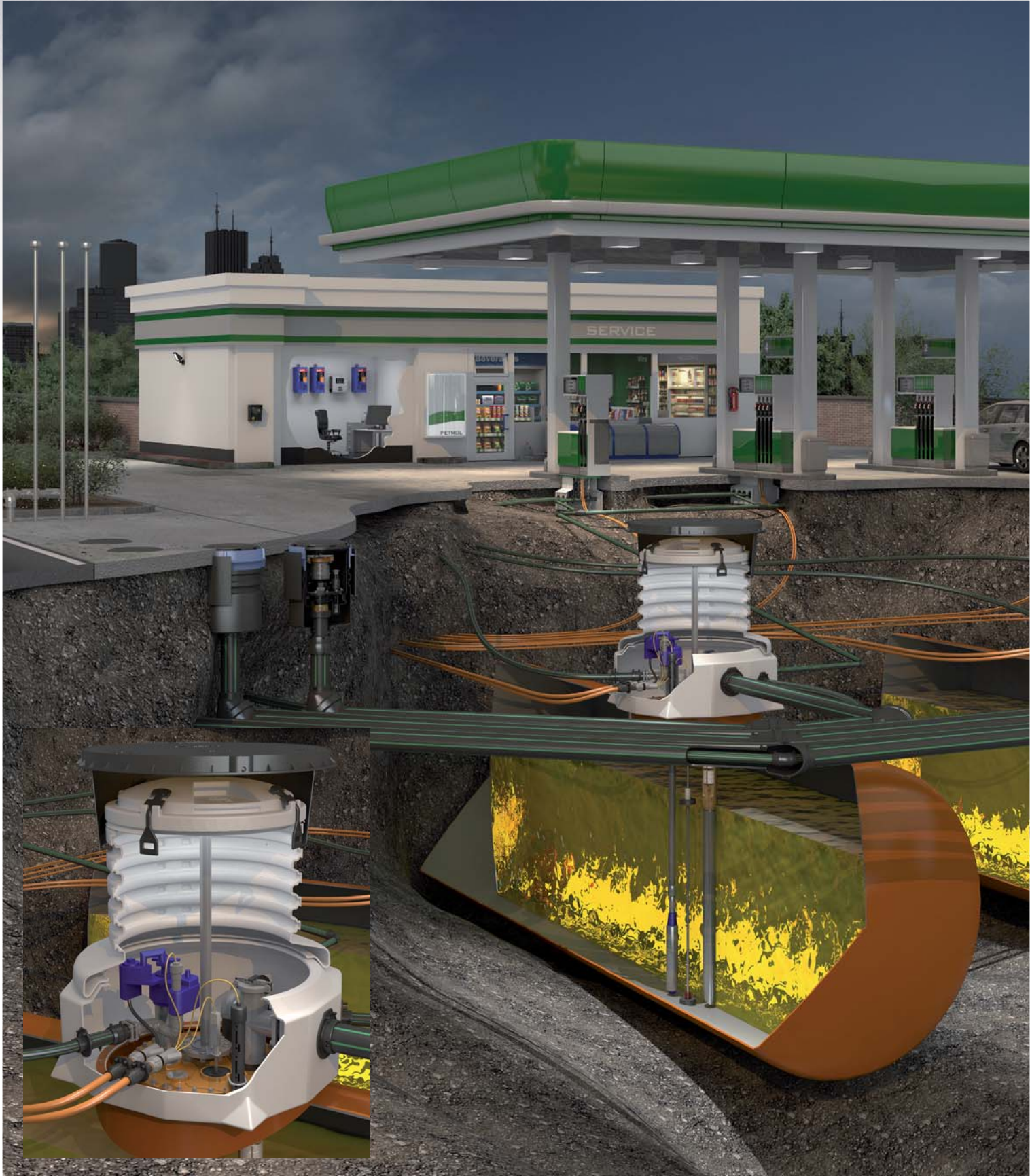
Whether you want to automate your station or network, build or re-build your station according to the latest environmental laws, update a station to fulfill new regulations or intend to realize a more cost efficient site construction and operation, you can rely on Franklin Fueling Systems. Our submersible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

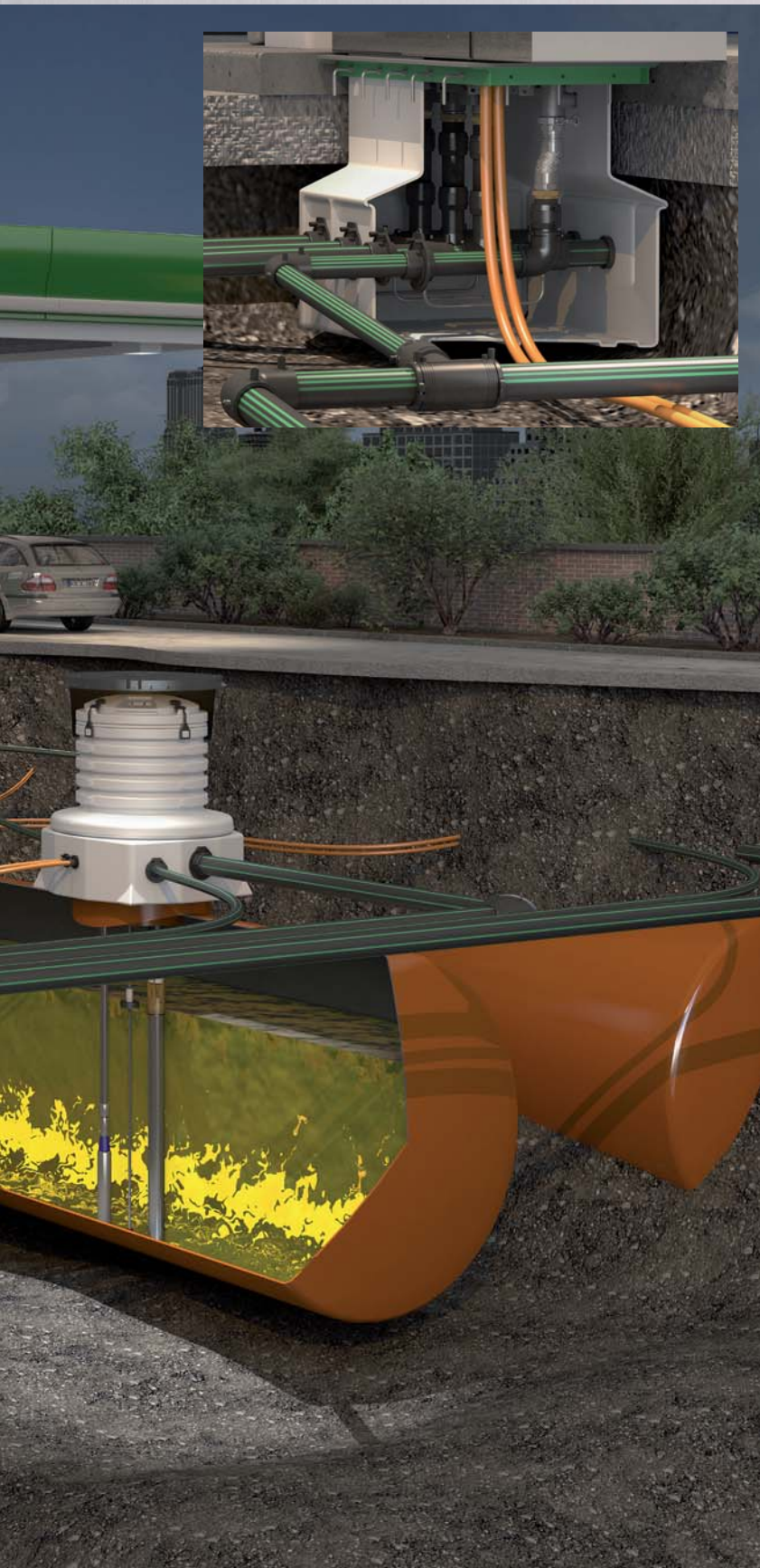
In addition to the industry's most comprehensive product offering, Franklin Fueling Systems also provides:

- 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.



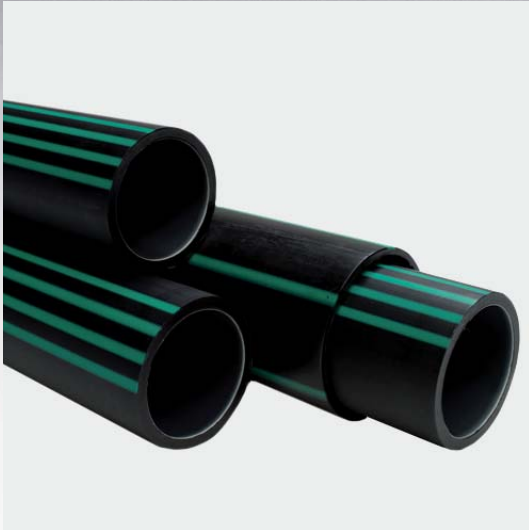
Zero Leak Paths

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.

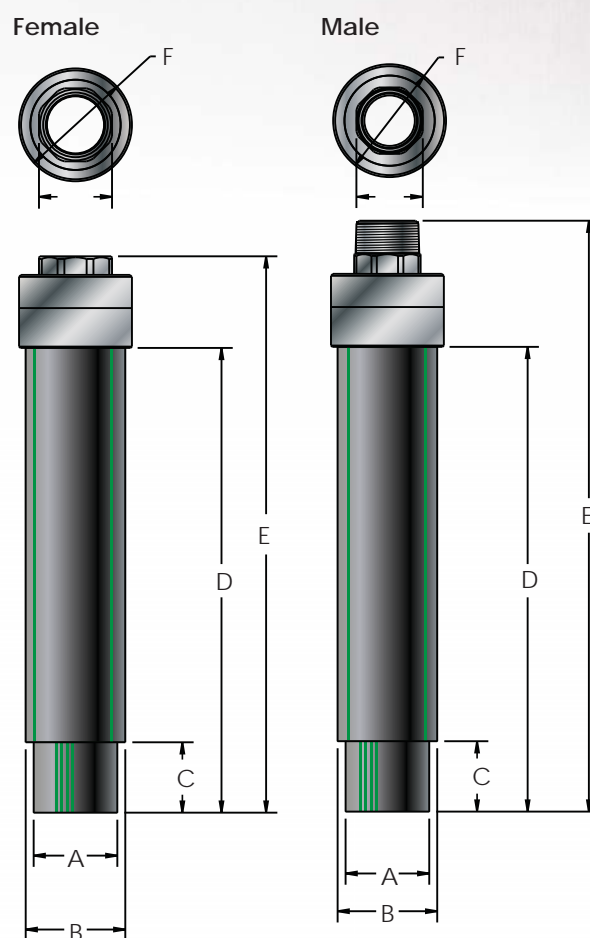
Approvals

- 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 ½" and ¾" 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 joining 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.



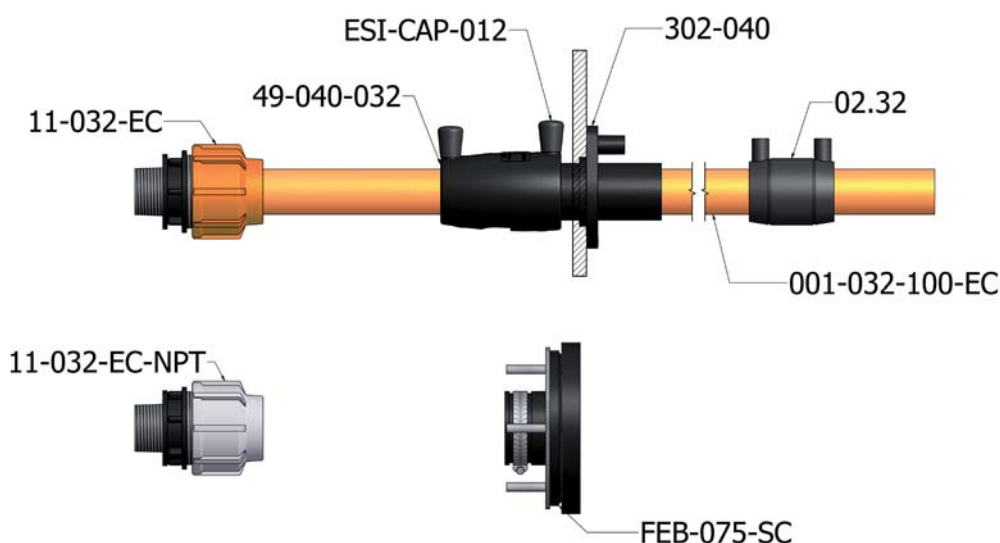
32 mm 1" Lined Electrical Conduit

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)
02.32	UPP Fusion Coupler 32mm	50	0.06	0.13	32
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 3/4" NPT	25	0.1	0.22	32

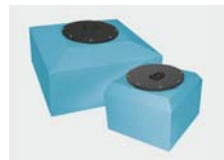


Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
10-032-EC	Compression Fitting End Cap	25	0.1	0.22	32



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

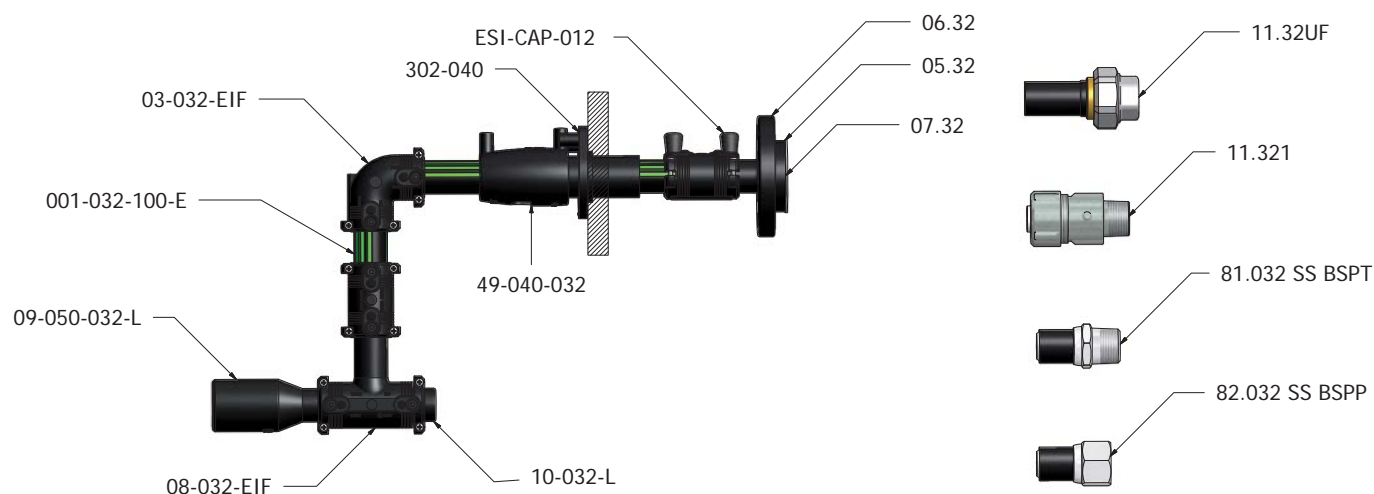
Related Items



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)
02.32	UPP Fusion Coupler 32mm	50	0.06	0.13	32
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

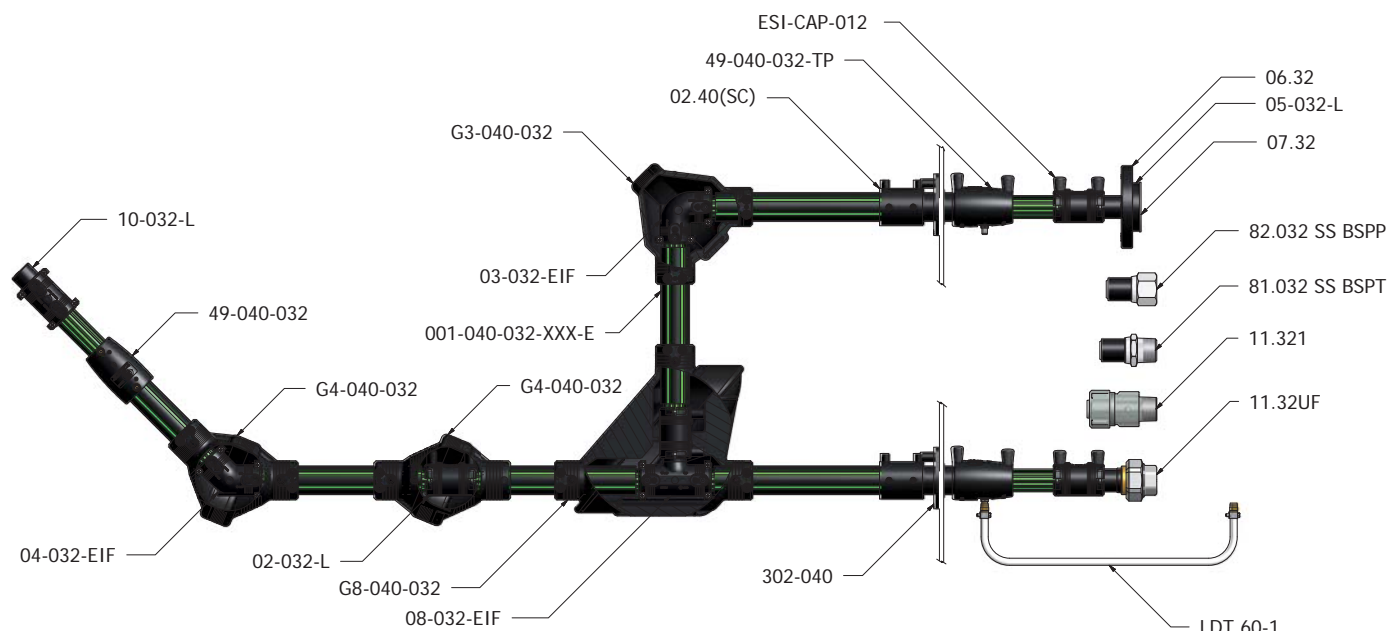


Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
81.032 SS BSPT	UPP SS Termination 32mm x 1" BSPT Male	50	0.256	0.56	32



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-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)
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

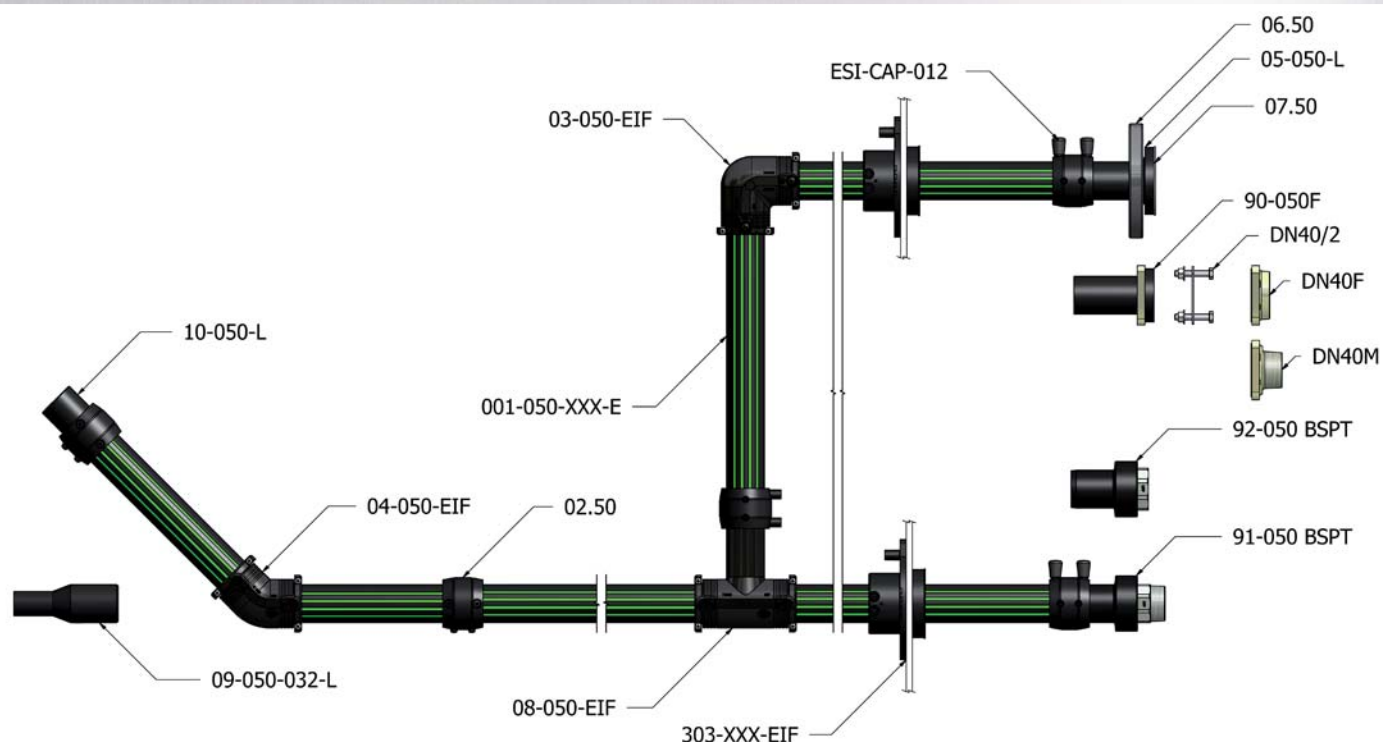


Model	Description	Pack Size	Weight (kg)	Weight (lbs)
LDT 60-1	Leak Detection Tube Kit - not for use with STB-100 product offering	1	0.05	0.11



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)	
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/1½" 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 1½" 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 1½" BSPT Female	5	1.58	3.48	50

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



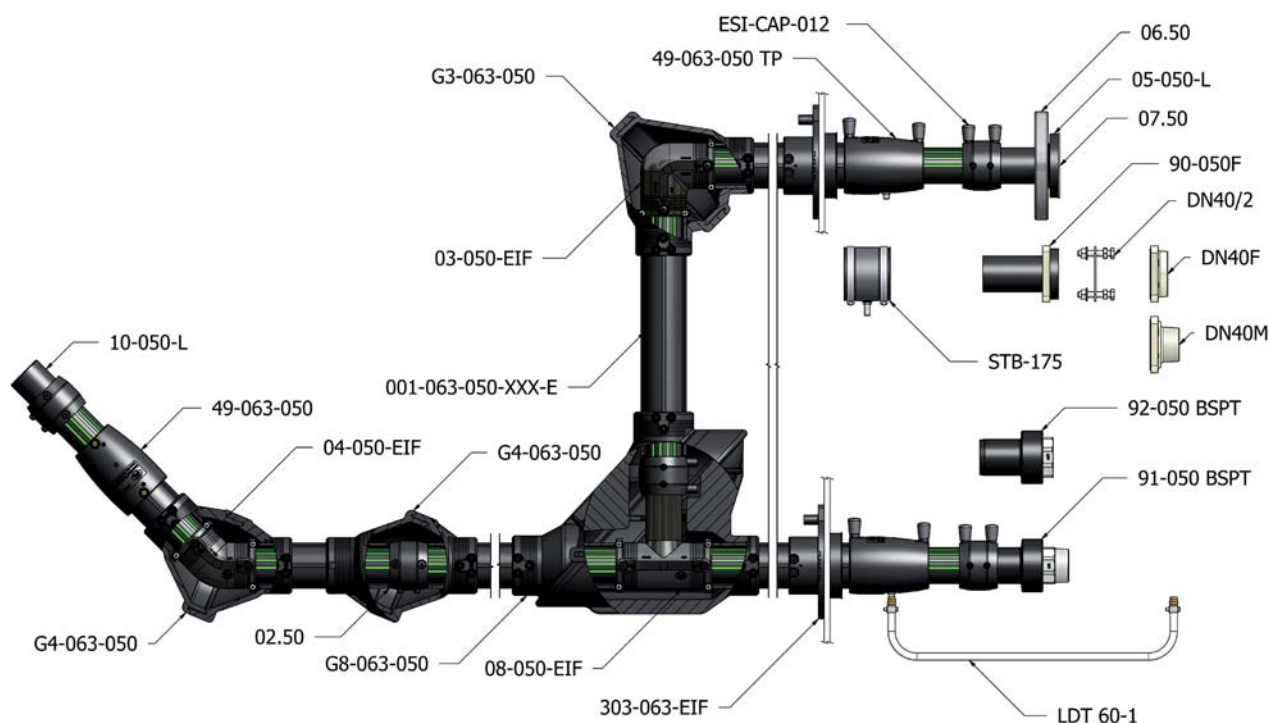
Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11.505	UPP Compression Tee 50mm x 1½" BSP Female	5	2.5	5.51	50

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 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

Related Items

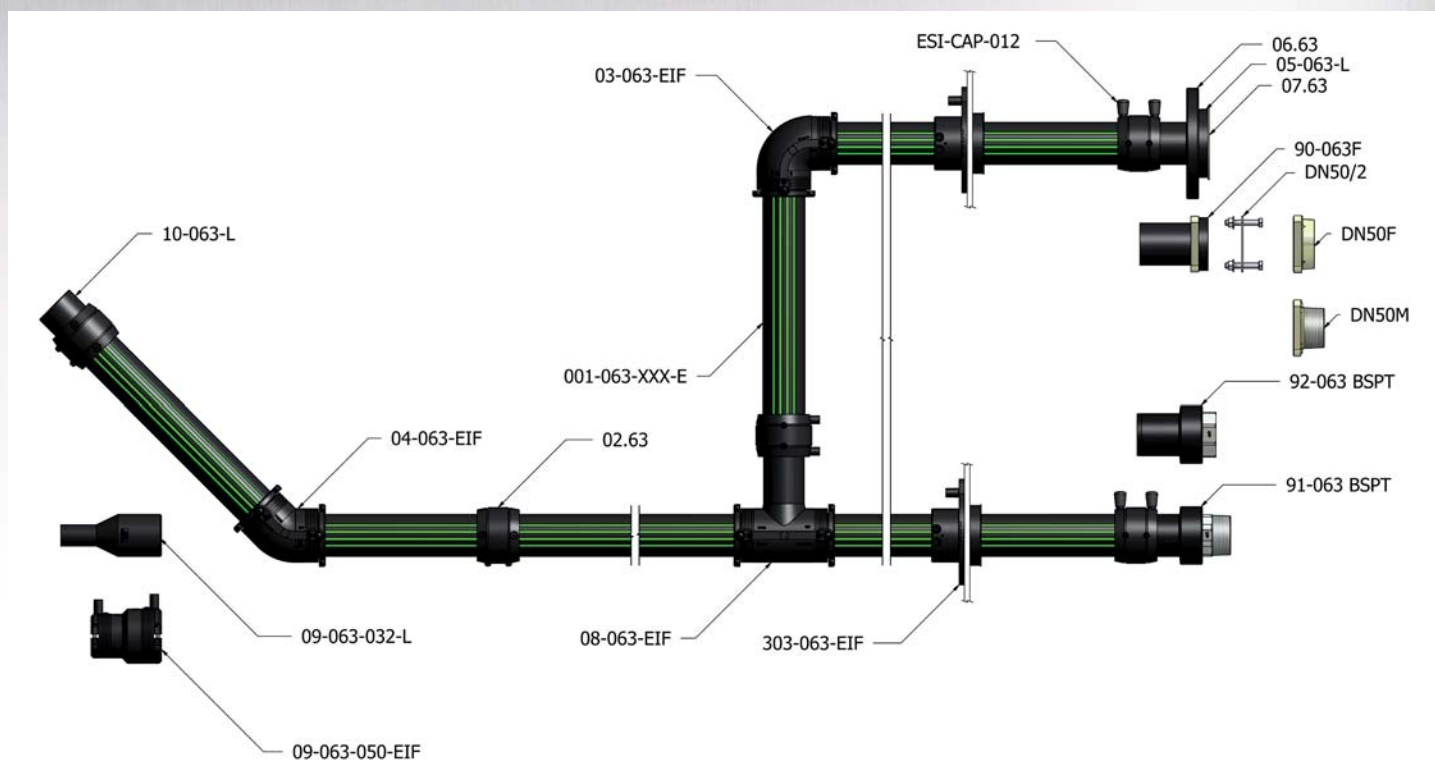


Model	Description	Pack Size	Weight (kg)	Weight (lbs)
LDT 60-1	Leak Detection Tube Kit - not for use with STB-100 product offering	1	0.05	0.11



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

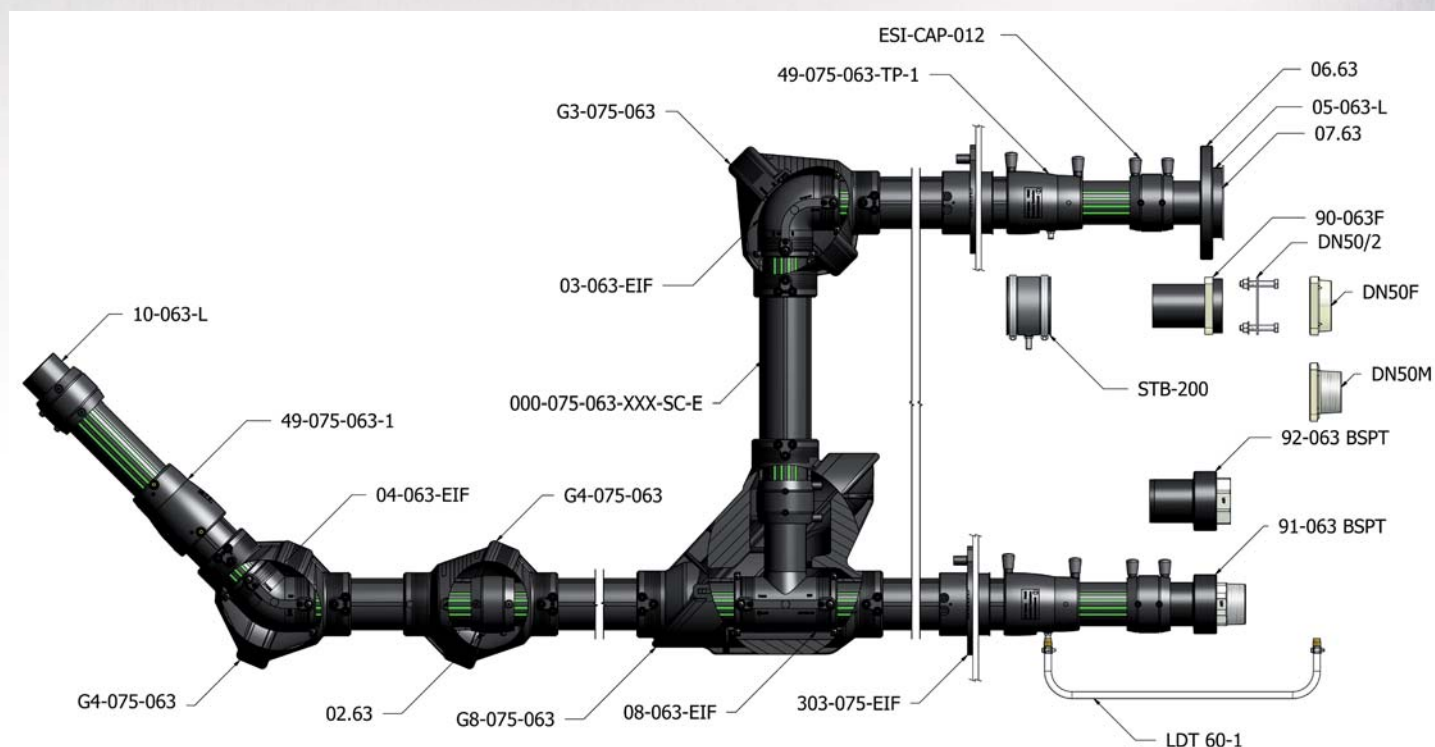


Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
11.63G	Spare Gasket for 63UF fittings	10	0.003	0.01	63



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

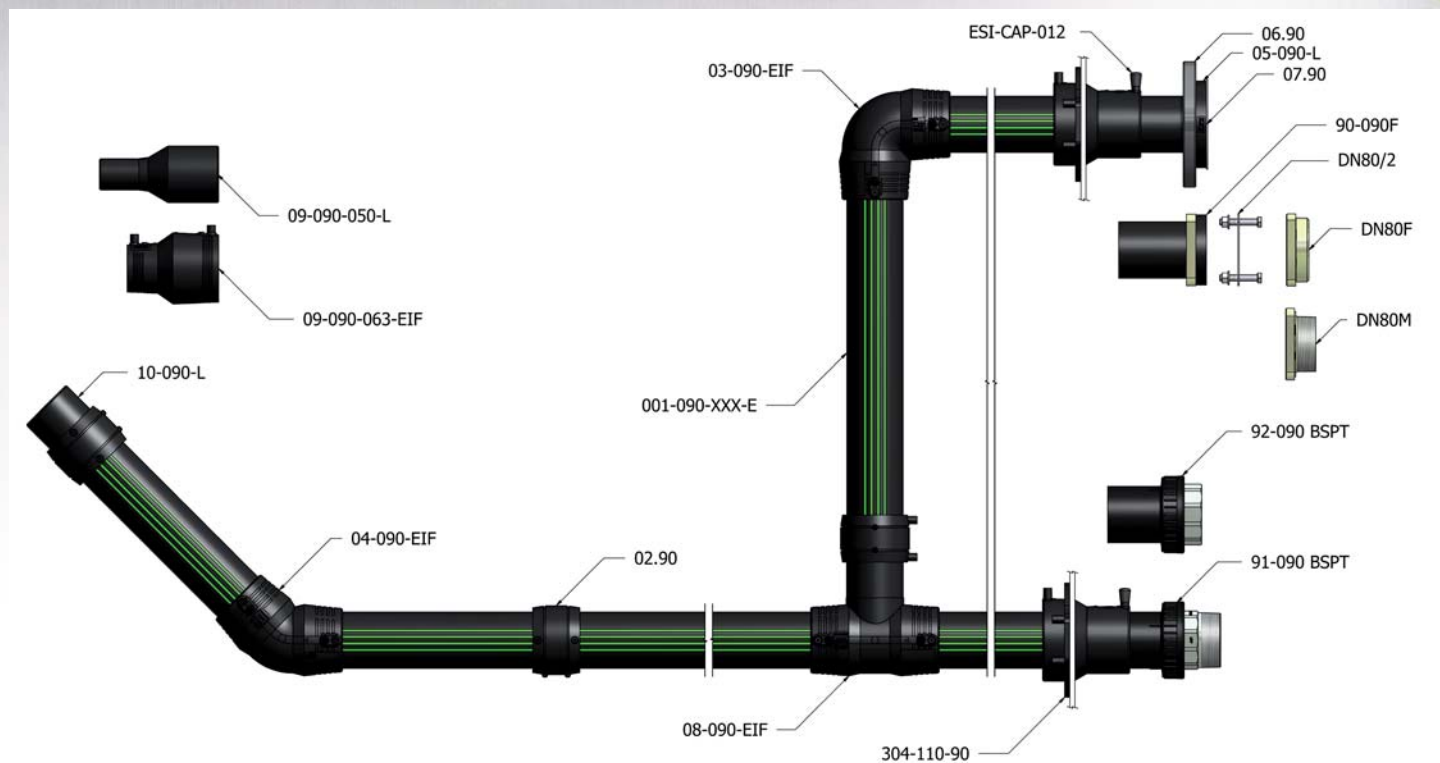


Model	Description	Pack Size	Weight (kg)	Weight (lbs)
LDT 60-1	Leak Detection Tube Kit - not for use with STB-100 product offering	1	0.05	0.11



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)
08-090-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

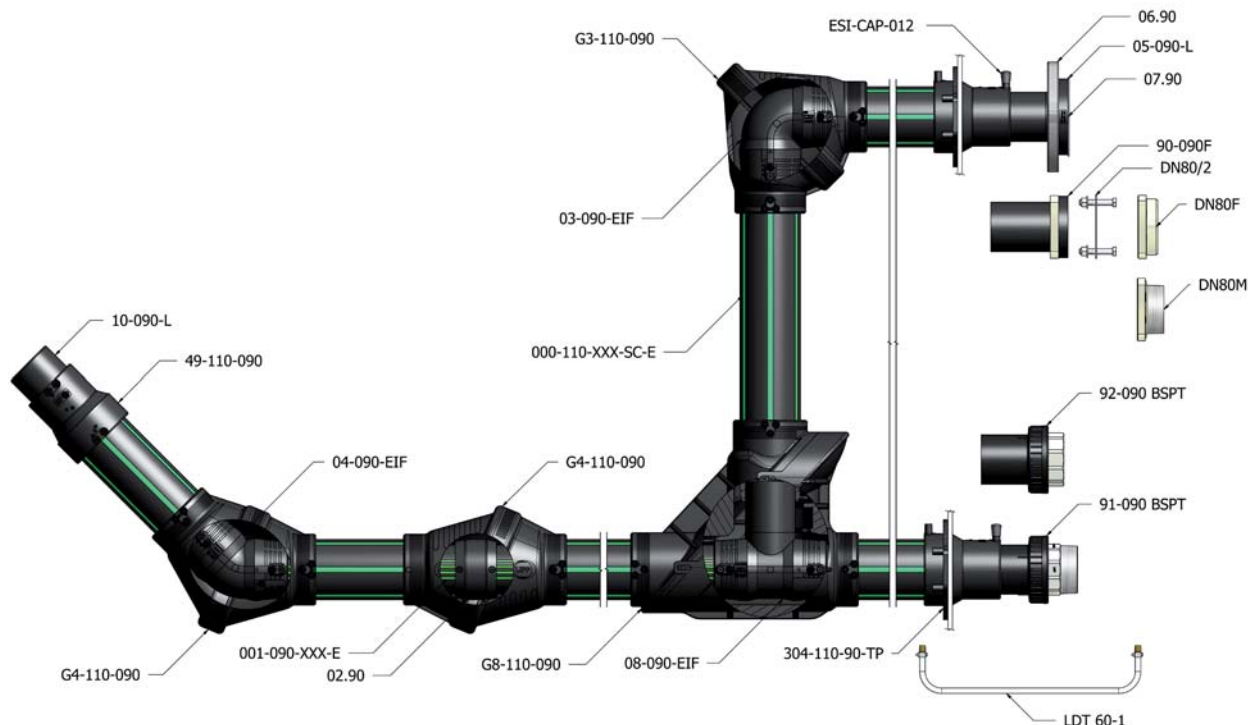


Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
408-044-001	O Ring NBR 69.5 x 3 for 12-090	1	0.001	0.002	90



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

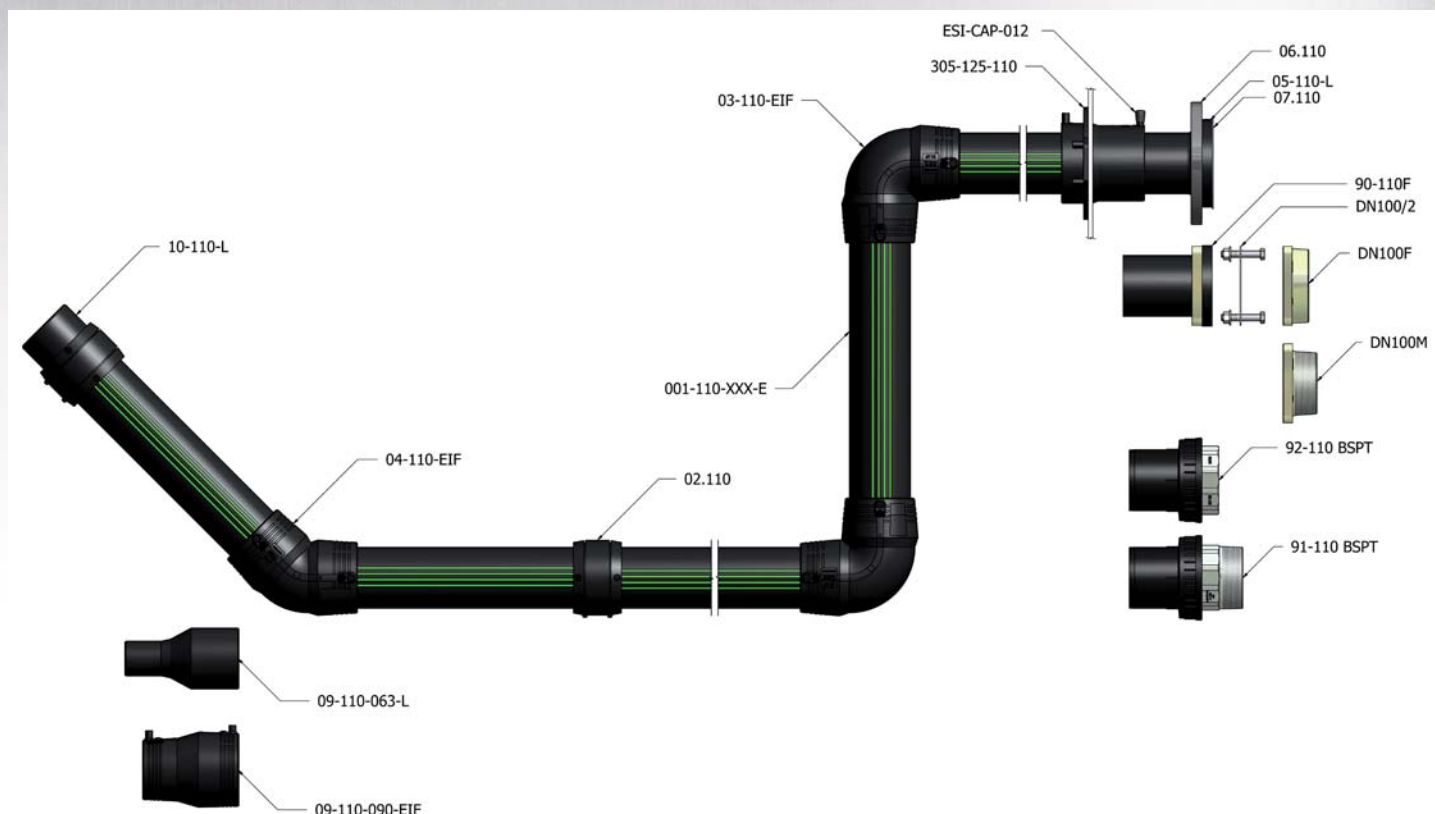


Model	Description	Pack Size	Weight (kg)	Weight (lbs)
LDT 60-1	Leak Detection Tube Kit - not for use with STB-100 product offering	1	0.05	0.11



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

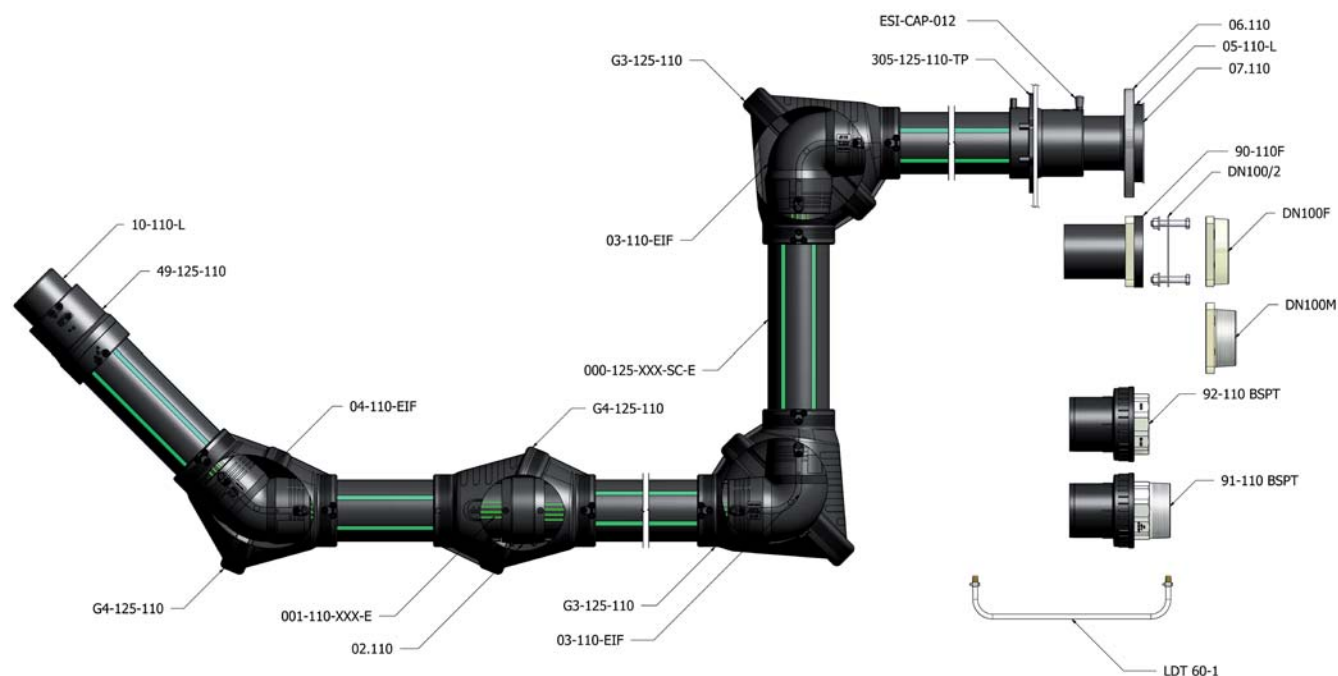


Model	Description	Pack Size	Weight (kg)	Weight (lbs)	Diameter Ø (mm)
408-043-001	O Ring NBR 89.5 x 3 for 12-110	1	0.002	0.004	110



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	Electrofusion Seal 125 & 110 Couplers with Test Port (pictured)	10	0.92	2.03	110
305-125-110	Electrofusion 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

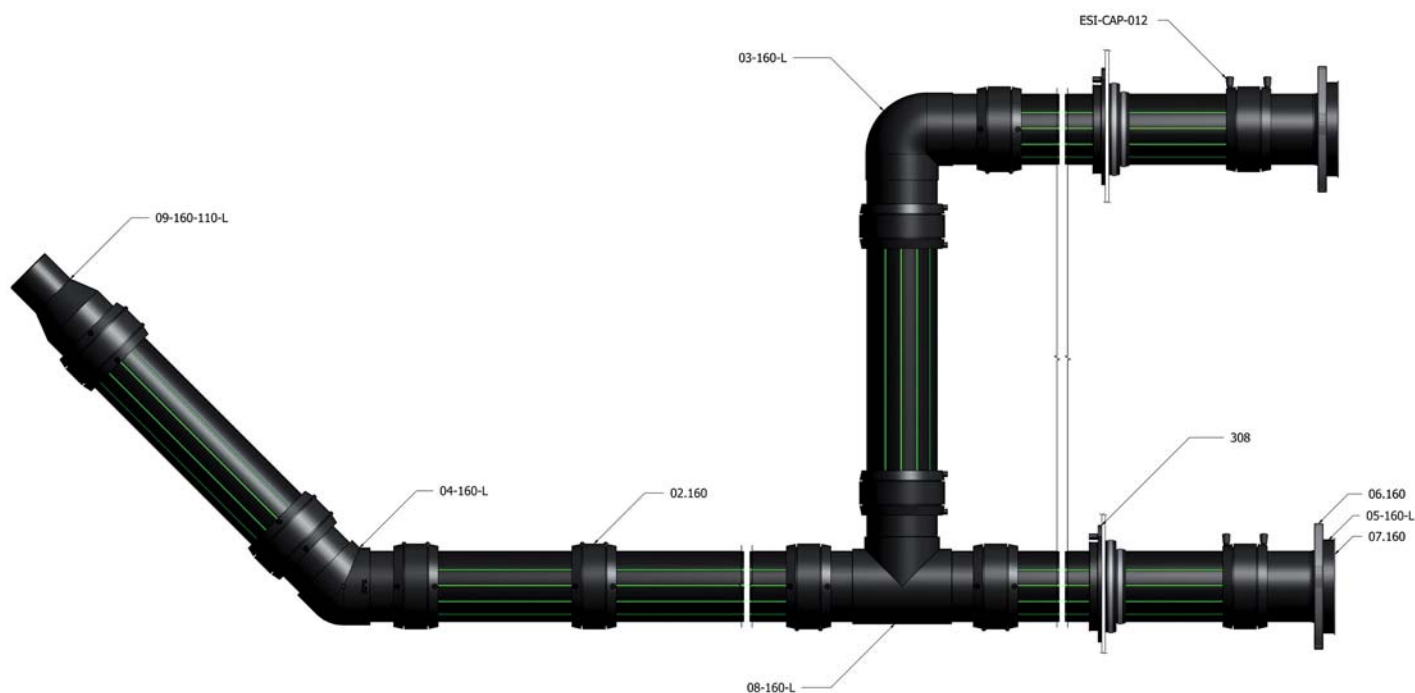


Model	Description	Pack Size	Weight (kg)	Weight (lbs)
LDT 60-1	Leak Detection Tube Kit - not for use with STB-100 product offering	1	0.05	0.11



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	--



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)

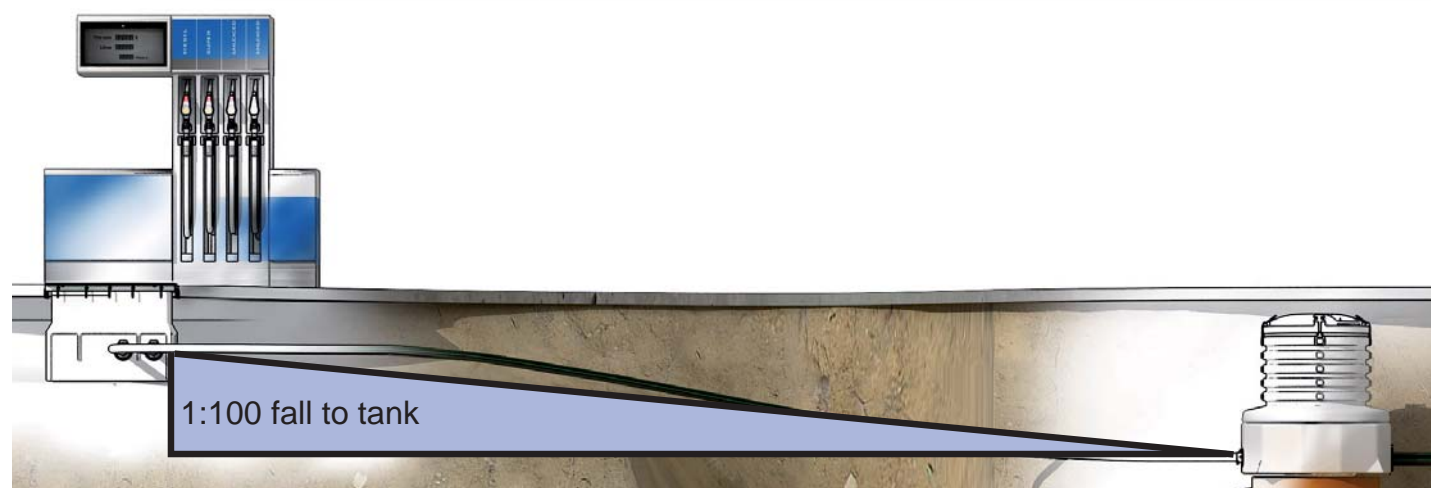
It is important to construct proper trenches before laying UPP pipe. Trenches should be wide and deep enough to comfortably allow pipe runs, recommended spacing and backfill materials.

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.

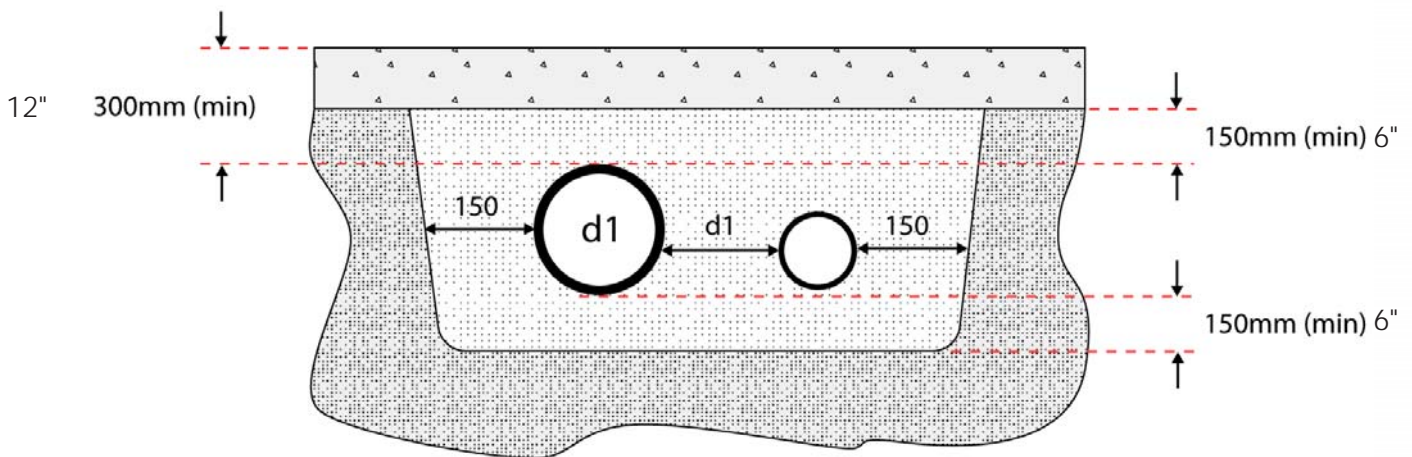


Bedding

- 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.

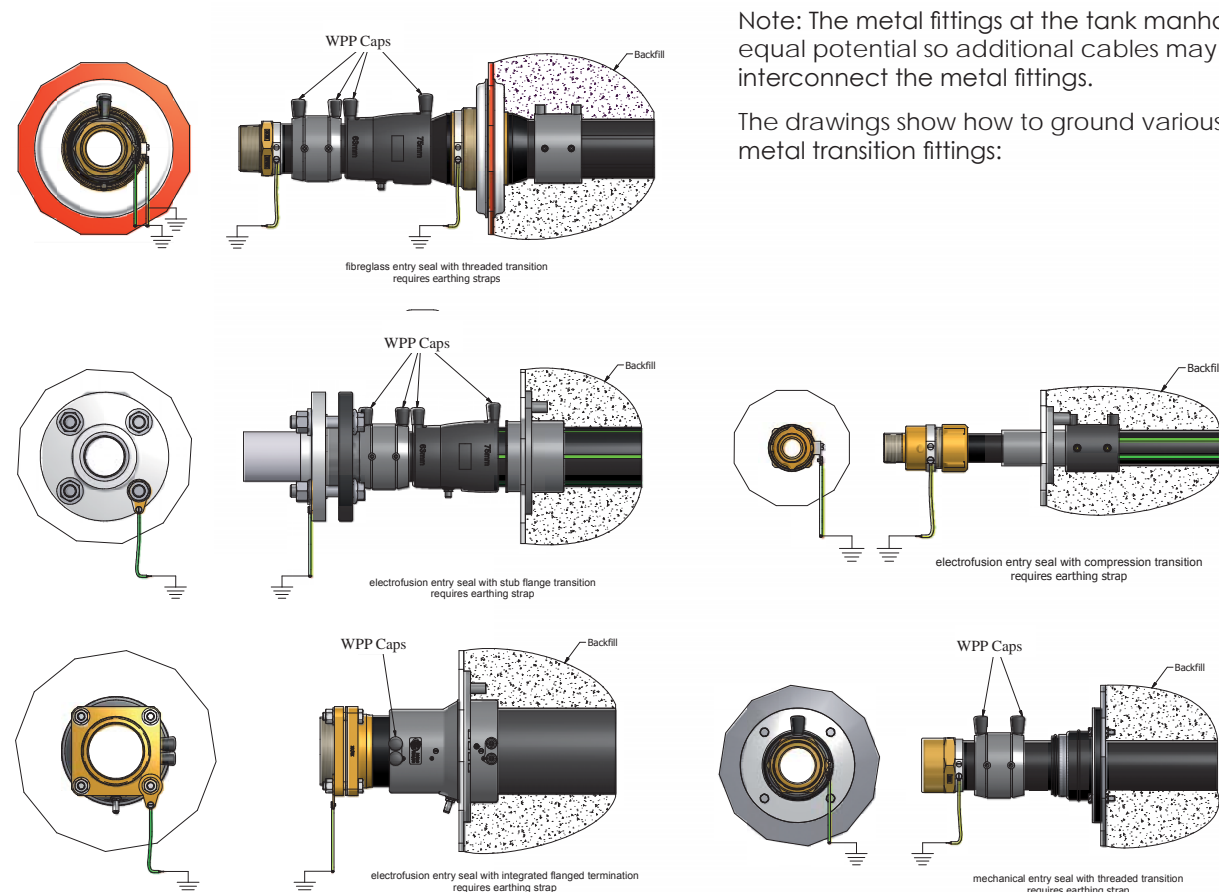
Double Wall Pipe							
Interstitial Volume	40/32mm	63/50mm	75/63mm	110/90mm	125/110mm	160/90mm	160/110mm
	(1")	(1½")	(2")	(3")	(4")	(3")	(4")
Litres / m	0.24	0.66	0.62	2.15	0.97	10.79	7.64
Cubic Inches / ft	4.40	12.29	11.52	39.93	18.01	200.73	142.12

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 4mm² 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.

