



Product Catalogue

The Complete Worldwide Pipework Solution

We bring you innovative technology...

PetroTechnik

PetroTechnik is a world leader in supply and storage systems for flammable liquids. Our innovative UPP polyethylene containment, piping and tightness testing systems are internationally recognised as the industry standard, and are approved for use in more countries than any similar product. Through our subsidiary Cookson & Zinn, we also manufacture and supply state-of-the-art above and below ground storage tanks and pressure vessels.

The UPP pipework system from PetroTechnik has had an untarnished safety and performance record since the first pipework was installed at a Shell Oil petrol station forecourt in Sweden in 1981. Since that time UPP pipe has led the revolution away from corroding metallic pipework systems for fuel applications and has therefore helped save the global environment from fuel spillages and contamination on a massive scale in the process. PetroTechnik has grown into a major global corporation, with offices worldwide including the UK, France, the United States, Sweden, Australia, Brazil, Japan, Singapore and China. These are supported by stocking distributors supplying over 150 countries and over 4,000 accredited installers.

Today UPP Systems pipework continues to ensure the effective and safe operation of underground fuel systems across tens of thousands of petrol station forecourts around the world.

The figures speak for themselves:

- 20 million meters of UPP pipe installed.
- 48,000 sites in over 150 countries.
- 4,000 accredited installers.
- ZERO product failures, ZERO incidents.
- NO static electricity build-up occurrences.

Why not ask us about:

- Becoming a distributor or installer of UPP Systems.
- Is your training, or your installers' training, up to date? Contact PetroTechnik to renew or refresh your training.
- Pre-fitted Tank Chambers available in conjunction with Cookson & Zinn.
- UPP small bore 32mm (1") pipe, designed to be the perfect solution for fuel oil generator systems.

For more information on UPP Systems from PetroTechnik, please visit our website

www.petrotechnik.com



UPP Pipework Systems

...backed up with outstanding quality.

PetroTechnik's fuel pipework and storage solutions combine cutting edge technology with world class manufacturing standards to deliver excellent results time after time. Efficiency, reliability and cost effectiveness are the key benefits, with both pipework and storage tanks providing long term leak free performance.

What's more, products are carefully designed to ensure that they are not only easy to install, but also require little or no ongoing maintenance. That's why PetroTechnik products are trusted by major global companies in the petro-chemicals, aviation, rail, marine and mining industries, including many 'blue-chip' corporations.

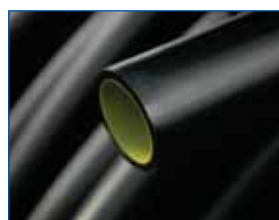
The system includes pipework, sumps, chambers, entry fittings, access covers and leak detection equipment. All UPP installations are vacuum testable at the point of installation and during operation.

The UPP System incorporates:

- **UPP Primary System**
Primary pipework and electrofusion, plain or transition fittings.
- **UPP Secondary Containment System**
Secondary pipework and electrofusion, plain or transition fittings.
- **UPP Containment**
Dispenser Sumps and Tank Chambers in both polyethylene and fibreglass, Access Covers in cast iron or composite, Entry Seals in both electrofusion and FRP.
- **UPP System Integrity**
System Integrity and Leak Detection units to test and monitor the tightness of all underground chambers and sumps.
- **UPP Tools**
Specialist installation tools for a specialist system.

All of the above allow for a tight system. UPP also offers a specially designed vacuum test kit; when using all the UPP System components, sumps, entry seals and pipework, you can be sure of a testable, tight piping system.

- **UPP pipework UL971 approved with all four UL test fuel Categories.**
- **EN14125 and CARB approved for vapor recovery.**
- **UPP fittings tested and approved for use with hydrocarbons, alcohol fuel blends and biofuels at pressures up to 10bar.**
- **Electrofusion technology provides a 100% leak tight system.**
- **The fully vacuum testable UPP System remains testable throughout the entire life of the site.**



Approved, tested and reliable products.



A wide variety of fittings.



Chambers in deep and shallow configurations.



A range of dispenser sumps.



System Integrity and Leak Detection equipment.



Electrofusion technology.

The complete solution for underground fuel delivery.

Primary Pipe System

UPP Primary Pipework with a complete range of Primary Entry Seals, Transitions and Fittings.

Transition Fittings

Complete range of Transition Fittings for connecting UPP pipework to tanks, dispensers, vent stacks and fill point spill containers.

Secondary Pipe System

UPP Secondary Pipework with a complete range of Secondary Entry Seals, Transitions and Fittings.

Installation

Wide range of tools and training for all aspects of installation work, from welding units to advanced Tightness Testing and Vacuum Testing units.

Technical Services

MTO's, certified training, site design and layout assistance also play an important part of providing a complete solution for our customers.



Dispenser Sumps

Range of Dispenser Sumps, with patented welded entry boot and double wall piping systems give you vacuum testable, leak proof installation.

Entry Fittings

Electrofusible Entry Seals for PE Sumps, providing watertight entries for the underground tank/sump chamber and the UPP primary or secondary contained pipe and electrical conduit or duct.

Chambers

Complete range of Tank Access Chambers, with deep and shallow, wide access and small bore for optimum efficiency and value.

Tanks

Complement your UPP System with a Fuel Storage Tank from Cookson & Zinn Ltd, specialists in design and manufacture of above and below ground storage tanks and pressure vessels.

Access Covers

Extremely hard wearing and durable range of PetroTite® PowerLift patented cast iron Access Covers and Composite Access Covers. BS EN124 to D400 structural integrity.

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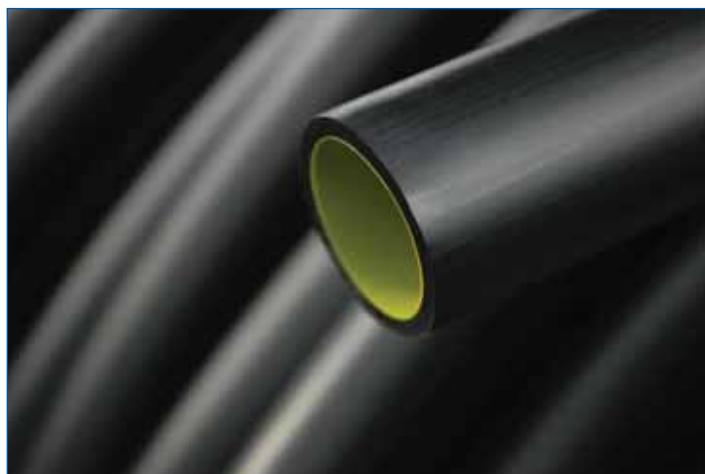
Underground Fuel Pipe Systems

Several types of underground fuel pipe are available for different applications and to meet various engineering and legal requirements:

- UPP Extra lined primary pipe with 100% nylon barrier: for product, suction, pressure, vapour, vent and fill lines.
- UPP Secondary Containment pipe: for pressure systems or environmentally sensitive sites.
- UPP unlined primary pipe: for use as vent, vapour recovery (VRI) and fill lines.
- UPP electrical conduit pipe: for underground electrical wiring protection.

UPP piping systems are designed in various diameters, from 32-160mm (1"-6") for the transfer of fuels in filling station forecourts, marinas, and airports. UPP systems are also used for government and military installations as well as many industrial sites such as mines and rail depots.

The small bore 32mm (1") pipe is also designed to be the perfect solution for fuel oil generator systems for the transport of fuel from above or below ground storage tanks to the generator units.



Underground Fuel Pipe Construction

Black outer structural layer of the pipe is High Density Polyethylene (HDPE) grade, PE80 or PE100, which allows the use of electrofusion couplers and fittings to construct an infinite variety of pipeline configurations. Puncture resistant PE is also resistant to microbial and rodent attack.

The intermediate layer is a tie-layer (adhesive) which permanently bonds the polyethylene layer to the barrier layer.

The yellow inner barrier layer of UPP Extra pipe is specially formulated "fuel proof" barrier layer which displays exceptional resistance to absorption and permeation of both gasoline and alcohol fuel blends.

The smooth bore and low friction loss of UPP Extra pipe permits fuel and vapour flows at higher velocities than steel pipe work as a result of lower hydraulic losses.

UPP underground fuel pipe is pressure rated to 10 bar (150 psi) continuous for its lifetime at 20°C. Rupture pressure is typically 40 bar (600 psi) providing a generous margin of safety.

There is no requirement for a concrete trench because fusion welded HDPE pipe has no joints and is structurally resistant to weight of backfill material and dynamic traffic loads. Over 29 years experience shows no failures in underground fuel pipe systems and no loss into the ground.

Approvals

UPP has received a large number of approvals from worldwide authorities and environment agencies, probably more than any other similar system.

UPP product ranges are independently tested by Cobham Technical Services, formally ERA Technology Ltd (Europe) and Underwriters Laboratories Inc (US) to meet all the relevant performance standards. The PetroTechnik UPP System approval of UL971 covers all four UL test fuel categories: Motor vehicle fuels, Concentrated fuels, High blend fuels, Aviation and marine fuels.

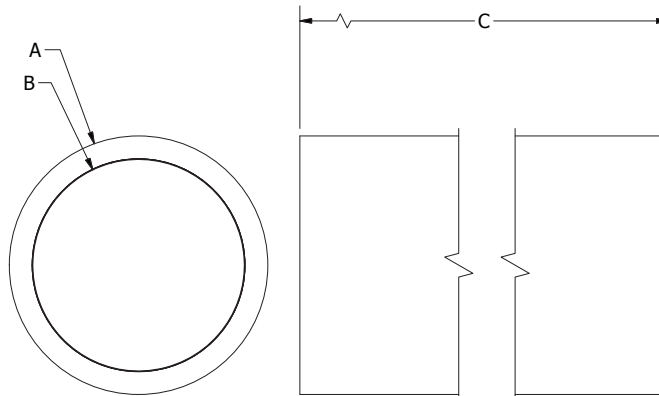
UPP has EN14125, UL971, IP2 and Shell approval - a standard of safety and quality we have maintained throughout our history.

UPP PRIMARY PIPE

UPP Extra Lined Pipe

Description	Product Code	Ø (mm)	Unit (m)	Pack (m)	Weight (kg/m)	Weight (lbs/ft)	SDR	Primary I/D (mm)	Bend Radius (m)
Lined Pipe	001-032-100	32	100m Coil	100	0.29	0.19	11	26.2	0.5
Lined Pipe	001-050-006-EN	50	6m Stick	696	0.56	0.38	13.6	42.6	0.75
Lined Pipe	001-050-050-EN	50	50m Coil	50	0.56	0.38	13.6	42.6	0.75
Lined Pipe	001-050-100-EN	50	100m Coil	100	0.56	0.38	13.6	42.6	0.75
Lined Pipe	001-063-006-EN	63	6m Stick	408	0.89	0.60	13.6	53.6	0.9
Lined Pipe	001-063-007-EN	63	7.5m Stick	510	0.89	0.60	13.6	53.6	0.9
Lined Pipe	001-063-008-EN	63	8m Stick	544	0.89	0.60	13.6	53.6	0.9
Lined Pipe	001-063-100-EN	63	100m Coil	100	0.89	0.60	13.6	53.6	0.9
Lined Pipe	001-090-006-EN	90	6m Stick	204	1.81	1.22	13.6	76.6	2.25
Lined Pipe	001-090-050-EN	90	50m Coil	50	1.81	1.22	13.6	76.6	2.25
Lined Pipe	001-110-006-EN	110	6m Stick	138	2.68	1.80	13.6	93.8	2.75
Lined Pipe	001-160-012	160	12m Stick	12	5.49	3.69	13.6	136.5	N/A

Material:	PE	Temperature Rating (°C):	-40 to 50 °C
Primary Pressure Rating (bar/Psi):	10 / 145	Primary Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Primary Colour:	Black	Secondary Colour:	n/a



Size Chart

Product Code	A	B	C
001-032-100	32	26	100m
001-050-006-EN	50	42.6	6m
001-050-050-EN	50	42.6	50m
001-050-100-EN	50	42.6	100m
001-063-006-EN	63	53.6	6m
001-063-007-EN	63	53.6	7.5m
001-063-008-EN	63	53.6	8m
001-063-100-EN	63	53.6	100m
001-090-006-EN	90	76.6	6m
001-090-050-EN	90	76.6	50m
001-110-006-EN	110	93.8	6m
001-160-012	160	136	12m

UPP Extra pipe is fully rated for 10 bar operation.

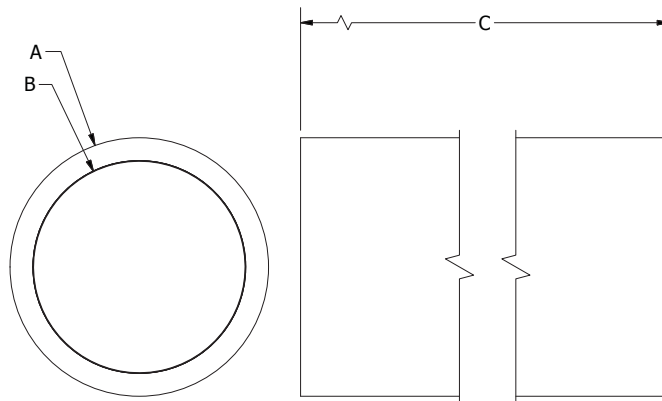
At the heart of the UPP System is a highly efficient electrofusion welding process which connects pipe and fittings to create a seamless direct burial pipework system. The welding operation, easily and quickly carried out, even in confined spaces and any climatic conditions, uses the UPP systems lightweight portable electrofusion welding unit to form the strongest of assemblies.

UPP PRIMARY PIPE

UPP Extra Lined Pipe - Fill / Vent

Description	Product Code	Ø (mm)	Unit (m)	Pack (m)	Weight (kg/m)	Weight (lbs/ft)	SDR	Primary I/D (mm)	Bend Radius (m)
Fill / Vent Pipe	001-110-006-FILL-EN	110	6m Stick	138	2.22	1.49	17	96.8	2.75

Material:	PE	Temperature Rating (°C):	-40 to 50 °C
Primary Pressure Rating (bar/Psi):	6 / 87	Primary Vacuum Rating (-bar/"Hg):	-0.6 / -17.8
Primary Colour:	Black	Secondary Colour:	n/a



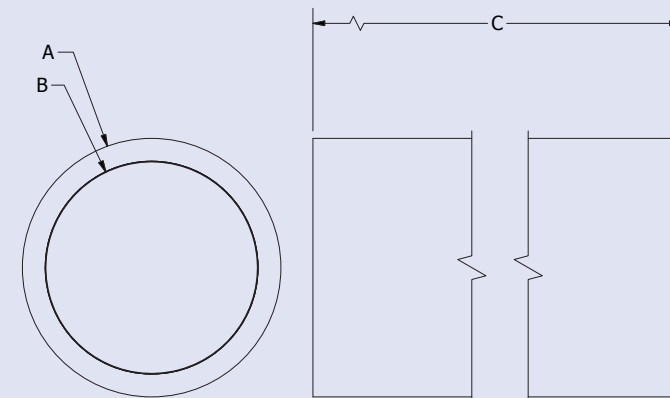
Size Chart

Product Code	A	B	C
001-110-006-FILL-EN	110	96.8	6m

UPP Extra Pipe - Lined Electrical Conduit

Description	Product Code	Ø (mm)	Unit (m)	Pack (m)	Weight (kg/m)	Weight (lbs/ft)	SDR	Primary I/D (mm)	Bend Radius (m)
Electrical Conduit	001-032-100-EC	32	100m Coil	100	0.29	0.19	11	26.2	0.5

Material:	PE	Temperature Rating (°C):	-40 to 50 °C
Primary Colour:	Orange	Secondary Colour:	n/a



Size Chart

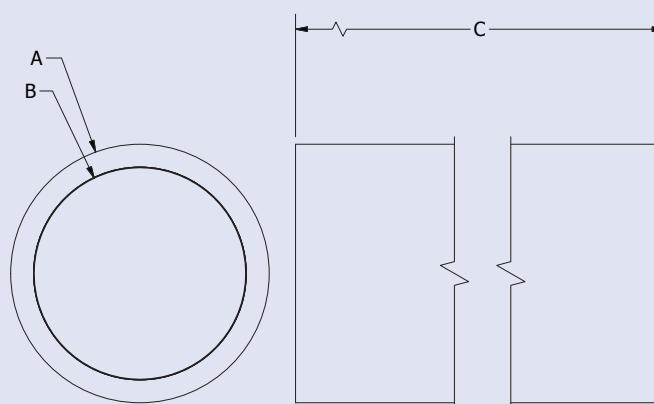
Product Code	A	B	C
001-032-100-EC	32	26	100m

UPP PRIMARY FITTINGS: ELECTROFUSION

UPP Pipe - Unlined Vent

Description	Product Code	Ø (mm)	Unit (m)	Pack (m)	Weight (kg/m)	Weight (lbs/ft)	SDR	Primary I/D (mm)	Bend Radius (m)
Unlined Pipe	000-050-100-17	50	100m Coil	100	0.66	0.44	17	44.1	0.75
Unlined Pipe	000-063-006-17	63	6m Stick	408	1.05	0.70	17	55.6	0.9
Unlined Pipe	000-063-085-17	63	85m Coil	85	1.05	0.70	17	55.6	0.9
Unlined Pipe	000-090-006-17	90	6m Stick	204	2.11	1.42	17	79.4	2.25

Material:	PE	Temperature Rating (°C):	-40 to 50 °C
Primary Pressure Rating (bar/Psi):	10 / 145	Primary Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Primary Colour:	Black	Secondary Colour:	n/a



Size Chart

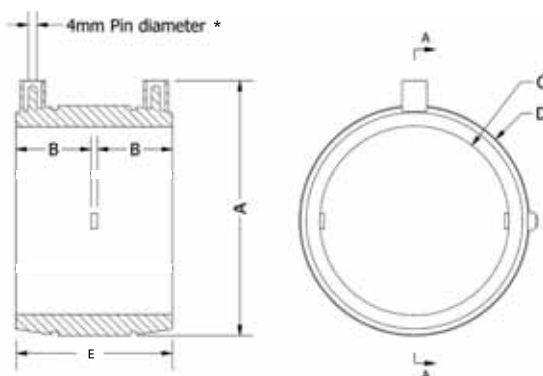
Product Code	A	B	C
000-050-100-17	50	44	100m
000-063-006-17	63	56	6m
000-063-085-17	63	56	85m
000-090-006-17	90	79	6m

Not for use with liquid fuels.

Welding Coupler

Description	Product Code	Ø (mm)	Pack Size	Weight/ unit (kg)	Weight/ unit (lbs)	Resistance ohm	Weld Pin Size	Weld Index	Insertion Depth mm
Primary Welding Coupler UPP 32mm	02.32	32	50	0.06	0.13	4	2mm *	1	29
Primary Welding Coupler UPP 50mm	02.50	50	20	0.08	0.18	7	4mm	2	25
Primary Welding Coupler UPP 63mm	02.63	63	25	0.12	0.26	11	4mm	2	30
Primary Welding Coupler UPP 90mm	02.90	90	18	0.2	0.44	19	4mm	4	36
Primary Welding Coupler UPP 110mm	02.110	110	15	0.36	0.79	28	4mm	6	42
Primary Welding Coupler UPP 160mm	02.160	160	4	0.53	1.17	55	2mm *	10	49

Material:	PE	Temperature Rating (°C):	-40 to 50 °C
Welding current (Amps):	4	Pressure Rating (bar/Psi):	10 / 145
		Vacuum Rating (-bar/"Hg):	-0.9 / -26.6



Size Chart

Product Code	A	B	C	D	E
02.32	61	29	32	47	60
02.50	81	25	50	69	53
02.63	95	30	63	84	63
02.90	122	36	90	110	75
02.110	145	42	110	135	87
02.160	199	49	161	193	101

* 32mm and 160mm couplers have 2mm weld pin connections. See page 72/73 for required welder cable

UPP PRIMARY FITTINGS: ELECTROFUSION

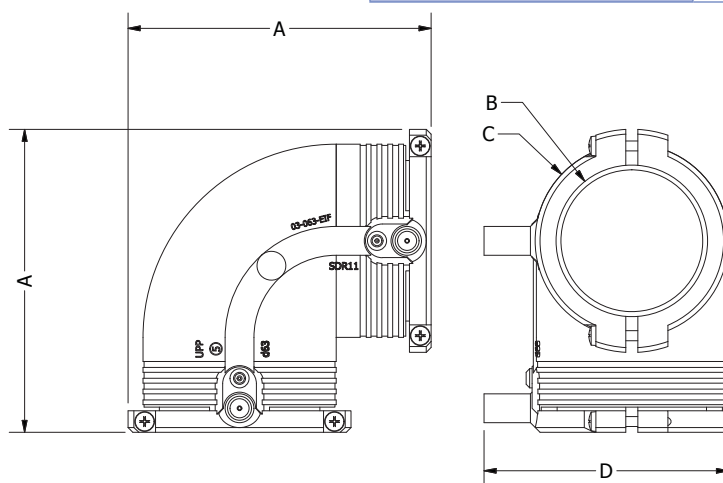
90° Elbow - Electrofusion

Description	Product Code	Ø (mm)	Pack Size	Weight/ unit (kg)	Weight/ unit (lbs)	Resistance ohm	Weld Pin Size	Weld Index	Insertion Depth mm
50 UPP Electrofusion 90° Elbow	03-050-EIF	50	30	0.2	0.44	11	4mm	4	37
63 UPP Electrofusion 90° Elbow	03-063-EIF	63	18	0.3	0.66	17	4mm	5	39
90 UPP Electrofusion 90° Elbow	03-090-EIF	90	15	0.69	1.52	40	4mm	10	62
110 UPP Electrofusion 90° Elbow	03-110-EIF	110	8	1.18	2.60	57	4mm	10	71

Material:	PE	Temperature Rating (°C):	-40 to 50 °C
Welding current (Amps):	4	Pressure Rating (bar/Psi):	10 / 145
		Vacuum Rating (-bar/"Hg):	-0.9 / -26.6



03-063-EIF



Size Chart

Product Code	A	B	C	D
03-050-EIF	109	50	65	83
03-063-EIF	126	63	80	102
03-090-EIF	177	90	115	126
03-110-EIF	212	110	137	150

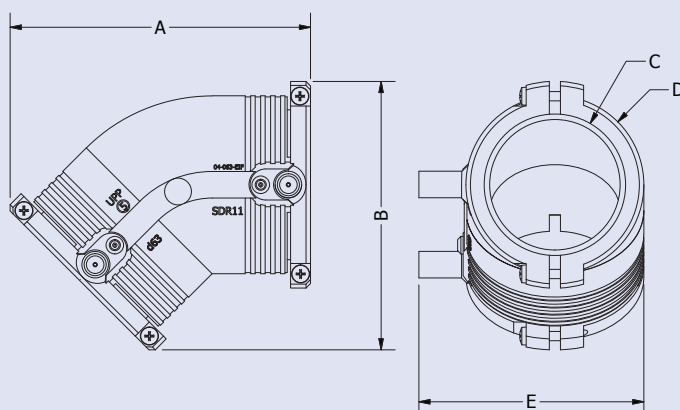
45° Elbow - Electrofusion

Description	Product Code	Ø (mm)	Pack Size	Weight/ unit (kg)	Weight/ unit (lbs)	Resistance ohm	Weld Pin Size	Weld Index	Insertion Depth mm
50 UPP Electrofusion 45° Elbow	04-050-EIF	50	30	0.16	0.35	11	4mm	4	41
63 UPP Electrofusion 45° Elbow	04-063-EIF	63	24	0.25	0.55	17	4mm	5	45
90 UPP Electrofusion 45° Elbow	04-090-EIF	90	20	0.56	1.23	40	4mm	10	61
110 UPP Electrofusion 45° Elbow	04-110-EIF	110	12	0.97	2.14	57	4mm	10	71

Material:	PE	Temperature Rating (°C):	-40 to 50 °C
Welding current (Amps):	4	Pressure Rating (bar/Psi):	10 / 145
		Vacuum Rating (-bar/"Hg):	-0.9 / -26.6



04-063-EIF



Size Chart

Product Code	A	B	C	D	E
04-050-EIF	117	101	50	64	85
04-063-EIF	136	121	63	80	102
04-090-EIF	201	160	90	114	126
04-110-EIF	233	190	110	136	145

UPP PRIMARY FITTINGS: ELECTROFUSION

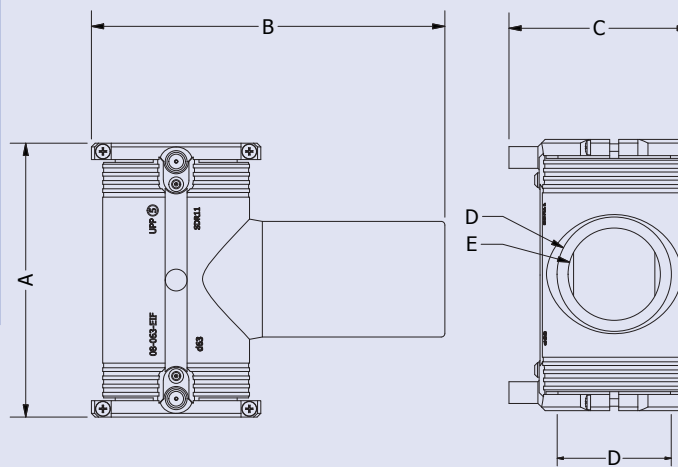
Tee - Electrofusion

Description	Product Code	Ø (mm)	Pack Size	Weight/ unit (kg)	Weight/ unit (lbs)	Resistance ohm	Weld Pin Size	Weld Index	Insertion Depth mm
50mm UPP Electrofusion Tee	08-050-EIF	50	22	0.25	0.55	11	4mm	4	43
63mm UPP Electrofusion Tee	08-063-EIF	63	12	0.41	0.90	17	4mm	5	46
90mm UPP Electrofusion Tee	08-090-EIF	90	10	0.87	1.92	40	4mm	10	61
110mm UPP Electrofusion Tee	08-110-EIF	110	6	1.53	3.37	44	4mm	10	71

Material:	PE	Temperature Rating (°C):	-40 to 50 °C
Welding current (Amps):	4	Pressure Rating (bar/Psi):	10 / 145
		Vacuum Rating (-bar/"Hg):	-0.9 / -26.6



08-063-EIF



Size Chart

Product Code	A	B	C	D	E
08-050-EIF	133	161	84	50	40
08-063-EIF	150	194	100	63	51
08-090-EIF	205	217	127	90	74
08-110-EIF	255	255	149	110	89

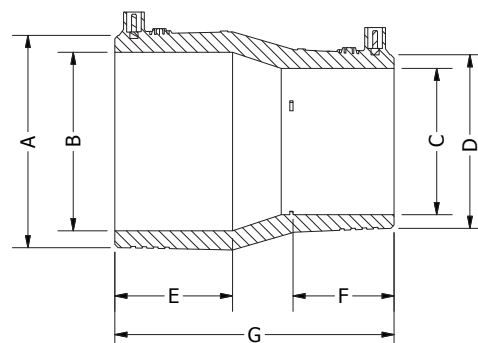
Reducer - Electrofusion

Description	Product Code	Ø (mm)	Pack Size	Weight/ unit (kg)	Weight/ unit (lbs)	Resistance ohm	Weld Pin Size	Weld Index	Insertion Depth mm
Electrofusion Reducer 90/63mm	09-090-063-EIF	90/63	30	0.35	0.77	22	4mm	5	63/47
Electrofusion Reducer 110/90mm	09-110-090-EIF	110/90	16	0.68	1.50	53	4mm	10	73/63

Material:	PE	Temperature Rating (°C):	-40 to 50 °C
Welding current (Amps):	4	Pressure Rating (bar/Psi):	10 / 145
		Vacuum Rating (-bar/"Hg):	-0.9 / -26.6

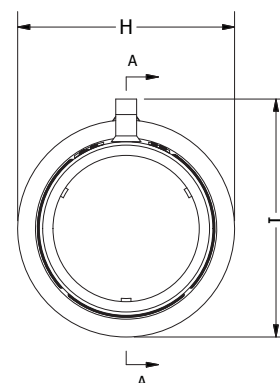


09-090-063-EIF



Size Chart

Product Code	A	B	C	D	E	F	G	H	I
09-090-063-EIF	107	90	63	75	73	47	146	113	125
09-110-090-EIF	132	110	90	108	73	63	173	135	148

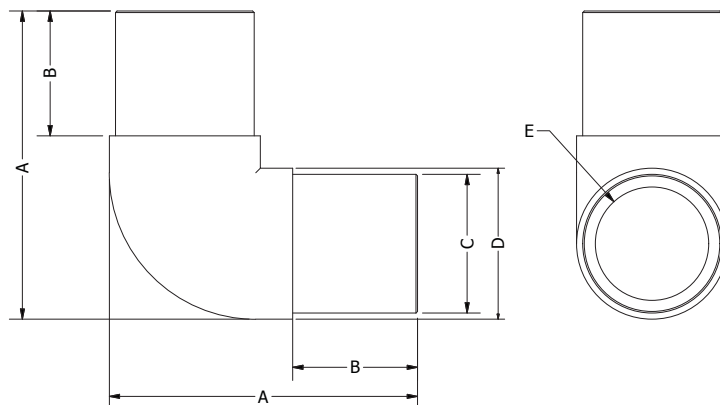


UPP PRIMARY FITTINGS: PLAIN

90° Elbow - Plain

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)
32mm Primary 90° Elbow	03.32	32	40	0.06	0.13
50mm Primary 90° Elbow	03-050-L	50	30	0.16	0.35
63mm Primary 90° Elbow	03-063-L	63	20	0.27	0.60
90mm Primary 90° Elbow	03-090-L	90	8	0.69	1.52
110mm Primary 90° Elbow	03-110-L	110	8	1.14	2.51
160mm Primary 90° Elbow	03.160	160	4	2.24	4.94

Material:	PE
Pressure Rating (bar/Psi):	10 / 145
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C



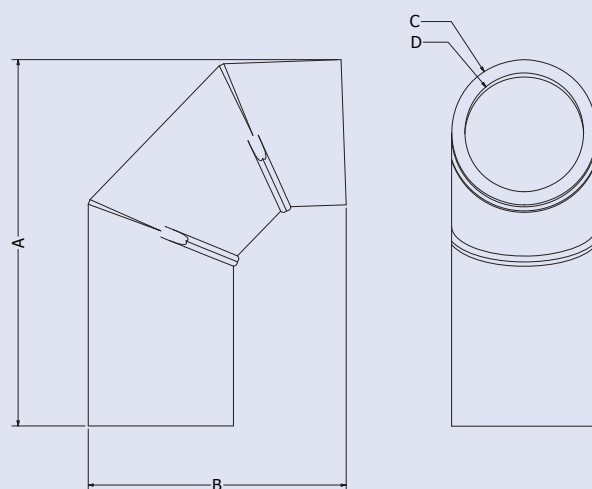
Size Chart

Product Code	A	B	C	D	E
03.32	100	54	32	35	26
03-050-L	132	63	50	53	40
03-063-L	149	65	63	68	51
03-090-L	200	81	90	98	74
03-110-L	224	86	110	118	90
03.160	250	52	160	165	130

90° Elbow UPP Extra

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)
UPP Extra 90mm Primary 90° Elbow	03-090-LS-4	90	10	0.71	1.57
UPP Extra 110mm Primary 90° Elbow	03-110-LS-4	110	10	1.08	2.38

Material:	PE + Barrier
Pressure Rating (bar/Psi):	10 / 145
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C



Size Chart

Product Code	A	B	C	D
03-090-LS-3	267	185	90	74
03-110-LS-3	278	196	110	90

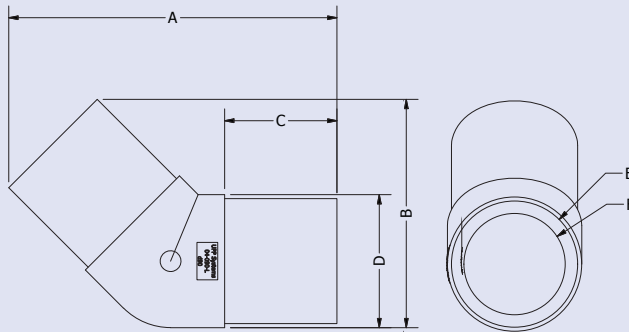
Select 03.160 (SC) for Secondary Containment of these elbows.

UPP PRIMARY FITTINGS: PLAIN

45° Elbow - Plain

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)
50mm Primary 45° Elbow	04-050-L	50	22	0.13	0.29
63mm Primary 45° Elbow	04-063-L	63	50	0.22	0.49
90mm Primary 45° Elbow	04-090-L	90	6	0.57	1.26
110mm Primary 45° Elbow	04-110-L	110	12	0.92	2.03
160mm Primary 45° Elbow	04.160	160	6	1.4	3.09

Material:	PE
Pressure Rating (bar/Psi):	10 / 145
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C



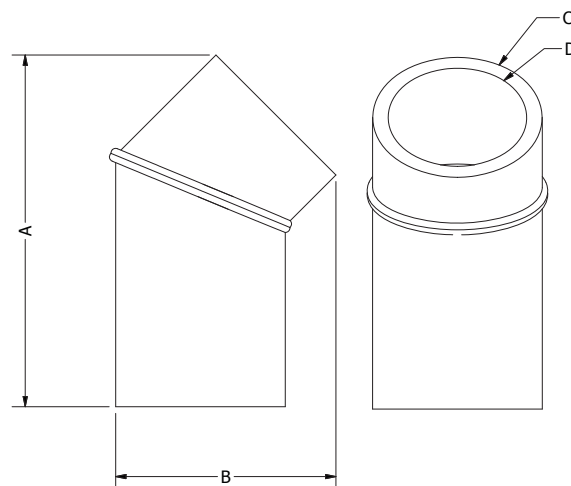
Size Chart

Product Code	A	B	C	D	E	F
04-050-L	170	107	63	53	50	41
04-063-L	184	123	65	68	63	52
04-090-L	237	165	81	96	90	72
04-110-L	203	189	86	118	110	90
04.160	217	206	52	165	160	130

45° Elbow UPP Extra

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)
UPP Extra 90mm Primary 45° Elbow	04-090-LS-4	90	10	0.47	1.04
UPP Extra 110mm Primary 45° Elbow	04-110-LS-4	110	10	0.72	1.59

Material:	PE + Barrier
Pressure Rating (bar/Psi):	10 / 145
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C



Size Chart

Product Code	A	B	C	D
04-090-LS-3	221	126	90	74
04-110-LS-3	228	143	110	90

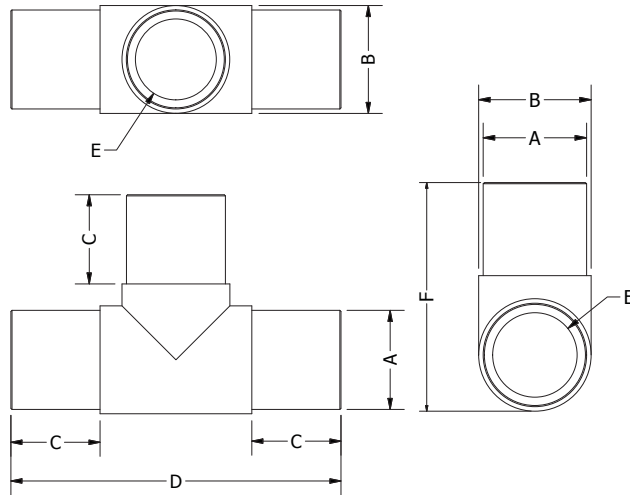
Select 04.160 (SC) for Secondary Containment of these elbows.

UPP PRIMARY FITTINGS: PLAIN

Tee

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)
Equal Tee 32mm Primary	08.32	32	20	0.08	0.18
Equal Tee 50mm Primary	08-050-L	50	20	0.21	0.46
Equal Tee 63mm Primary	08-063-L	63	25	0.37	0.82
Equal Tee 90mm Primary	08-090-L	90	7	1.02	2.25
Equal Tee 110mm Primary	08-110-L	110	5	1.63	3.59
Equal Tee 160mm Primary	08.160	160	3	0.84	1.85

Material:	PE
Pressure Rating (bar/Psi):	10 / 145
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C



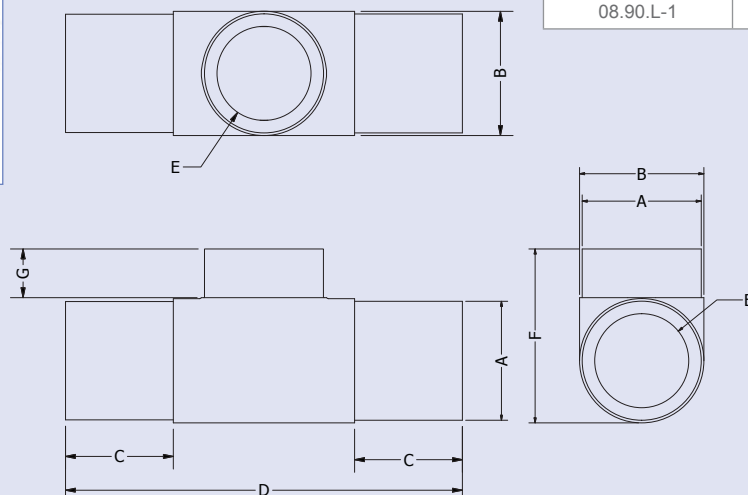
Size Chart

Product Code	A	B	C	D	E	F
08.32	32	34	54	168	26	101
08-050-L	50	53	63	210	40	132
08-063-L	63	68	65	230	51	149
08-090-L	90	98	81	300	74	199
08-110-L	110	118	86	330	90	224
08.160	160	170	49	317	131	244

Tee - long

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)
Equal Tee Long 90mm MODIFIED Primary	08.90.L-1	90	7	0.86	1.90

Material:	PE
Pressure Rating (bar/Psi):	10 / 145
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C



Size Chart

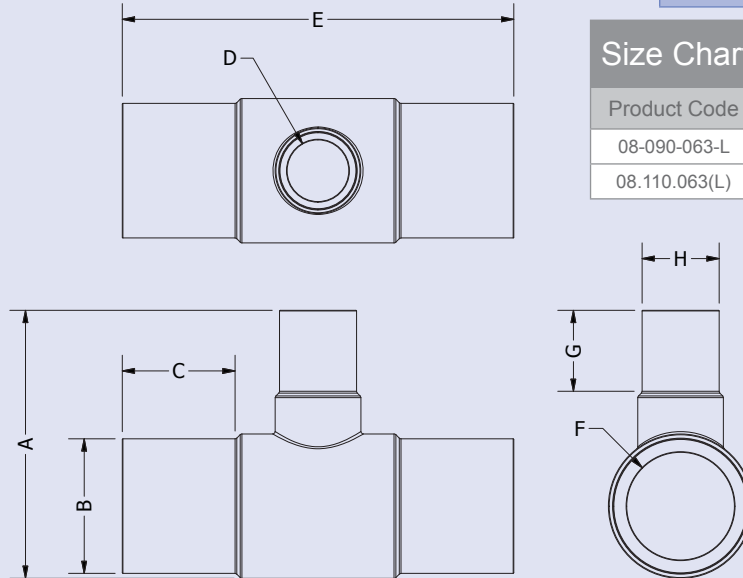
Product Code	A	B	C	D	E	F	G
08.90.L-1	90	95	82	302	72	132	37

UPP PRIMARY FITTINGS: PLAIN

Reducing Tee

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)
Reducing Tee 90mm - 63mm Primary	08-090-063-L	90	15	0.83	1.83
Reducing Tee 110mm - 63mm Primary	08.110.063(L)	110	10	1.27	2.80

Material:	PE
Pressure Rating (bar/Psi):	10 / 145
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C



Size Chart

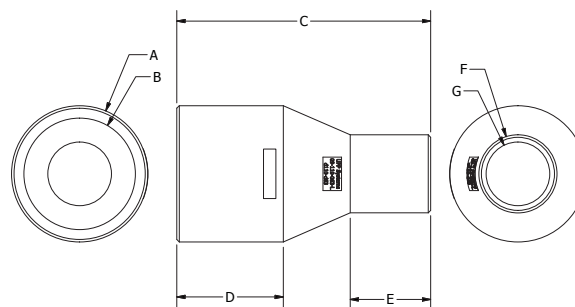
Product Code	A	B	C	D	E	F	G	H
08-090-063-L	185	90	79	51	269	74	64	63
08.110.063(L)	219	110	92	51	320	88	66	63

Select 03.160 (SC) for Secondary Containment of these elbows.

Reducer Primary

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)
Reducer 50mm - 32mm Primary	09-050-032-L	50/32	40	0.07	0.15
Reducer 63mm - 32mm Primary	09-063-032-L	63/32	28	0.11	0.24
Reducer 63mm - 50mm Primary	09-063-050-L	63/50	24	0.13	0.29
Reducer 90mm - 50mm Primary	09-090-050-L	90/50	15	0.29	0.64
Reducer 90mm - 63mm Primary	09-090-063-L	90/63	20	0.32	0.71
Reducer 110mm - 63mm Primary	09-110-063-L	110/63	10	0.47	1.04
Reducer 110mm - 90mm Primary	09-110-090-L	110/90	9	0.55	1.21
Reducer 160mm - 110mm Primary	09-160-110-L	160/110	4	1.24	2.73

Material:	PE
Pressure Rating (bar/Psi):	10 / 145
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C



Size Chart

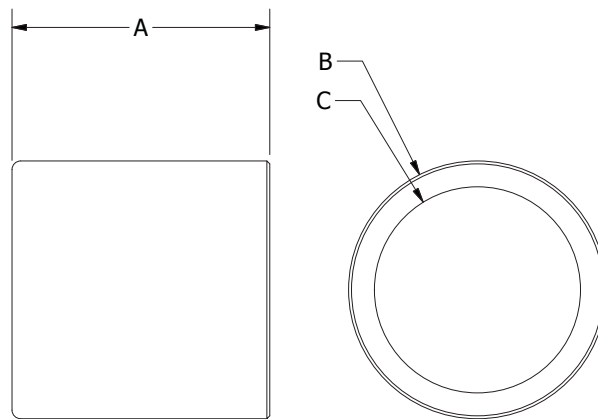
Product Code	A	B	C	D	E	F	G
09-050-032-L	50	40	137	63	51	32	25
09-063-032-L	63	51	150	65	53	32	25
09-063-050-L	63	51	148	62	61	50	40
09-090-050-L	90	72	190	80	61	50	40
09-090-063-L	90	72	190	81	65	63	50
09-110-063-L	110	90	205	86	65	63	51
09-110-090-L	110	90	205	86	79	90	73
09-160-110-L	160	131	245	102	86	110	90

UPP PRIMARY FITTINGS: PLAIN

End Cap Primary

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)
End Cap 32mm Primary	10-032-L	32	50	0.02	0.04
End Cap 50mm Primary	10-050-L	50	30	0.05	0.11
End Cap 63mm Primary	10-063-L	63	50	0.08	0.18
End Cap 90mm Primary	10-090-L	90	18	0.24	0.53
End Cap 110mm Primary	10-110-L	110	12	0.38	0.84

Material:	PE
Pressure Rating (bar/Psi):	10 / 145
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C



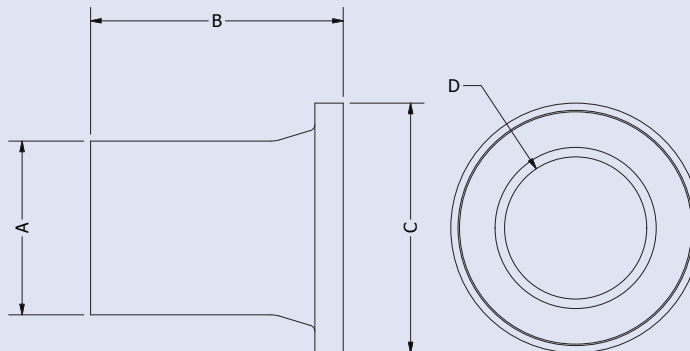
Size Chart

Product Code	A	B	C
10-032-L	55	32	26
10-050-L	63	50	40
10-063-L	65	63	51
10-090-L	90	90	72
10-110-L	98	110	88

Stub Flange

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)
Stub Flange 32mm	05.32	32	50	0.06	0.13
Stub Flange 50mm	05-050-L	50	50	0.12	0.26
Stub Flange 63mm	05-063-L	63	30	0.18	0.40
Stub Flange 90mm	05-090-L	90	12	0.48	1.06
Stub Flange 110mm	05-110-L	110	8	0.7	1.54
Stub Flange 160mm	05-160-L	160	6	1.66	3.66

Material:	PE
Pressure Rating (bar/Psi):	10 / 145
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Gasket Material:	Klingersil: C-4430
Temperature Rating (°C):	-40 to 50 °C



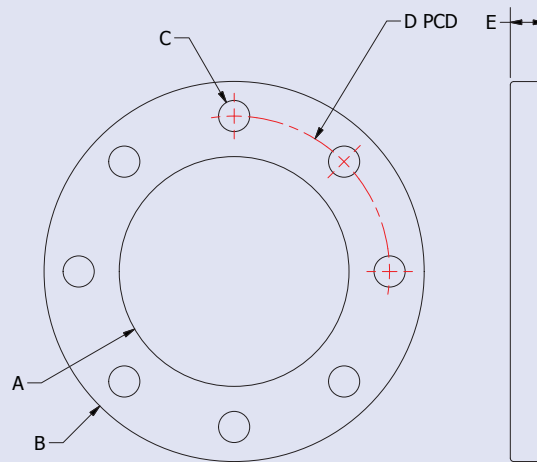
Size Chart

Product Code	A	B	C	D
05.32	32	80	68	26
05-050-L	50	105	88	41
05-063-L	63	102	102	51
05-090-L	90	140	138	74
05-110-L	110	160	158	90
05-160-L	160	200	212	131

UPP PRIMARY FITTINGS: PLAIN

Flange-Circular for Stub

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)
Flange - Circular DN25 for 32mm Stub	06.32	25/32	34	0.44	0.97
Flange - Circular DN40 for 50mm Stub	06.50	40/50	17	1.54	3.40
Flange - Circular DN50 for 63mm Stub	06.63	50/63	15	0.88	1.94
Flange - Circular DN80 for 90mm Stub	06.90	80/90	9	1.4	3.09
Flange - Circular DN100 for 110mm Stub	06.110	100/110	13	1.44	3.17
Flange - Circular DN150 for 160mm Stub	06.160	150/160	1	5.52	12.17



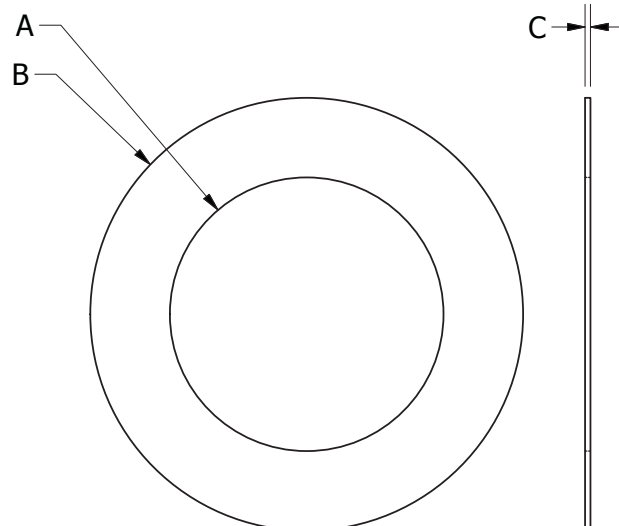
Material:	PP with steel core
Pressure Rating (bar/Psi):	10 / 145
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Gasket Material:	Klingsil : C-4430
Temperature Rating (°C):	-40 to 50 °C

Size Chart

Product Code	A	B	C	D	E
06.32	42	116	14	85	16
06.50	61	150	18	110	18
06.63	78	165	18	125	18
06.90	110	200	18	160	20
06.110	133	220	18	180	20
06.160	178	285	22	240	20

Gasket For Stub

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)
Gasket for 32mm Stub	07.32	32	10	0.012	0.03
Gasket for 50mm Stub	07.50	50	10	0.02	0.04
Gasket for 63mm Stub	07.63	63	10	0.02	0.04
Gasket for 90mm Stub	07.90	90	10	0.04	0.09
Gasket for 110mm Stub	07.110	110	10	0.042	0.09
Gasket for 160mm Stub	07.160	160	5	0.1	0.22



Material:	Klingsil: C-4430
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Size Chart

Product Code	A	B	C
07.32	27	70	2
07.50	43	90	2
07.63	56	108	2
07.90	85	143	2
07.110	103	163	2
07.160	150	218	2

UPP PRIMARY FITTINGS: TRANSITION FITTINGS

80 Series Transition Fittings

- For terminating UPP pipework at tanks, dispensers, vent stacks and fill point spill containers.
- Male and female threads.
- Variety of thread sizes available.
- Variety of pipe diameter sizes available.
- Transition fusion weld to UPP pipework.

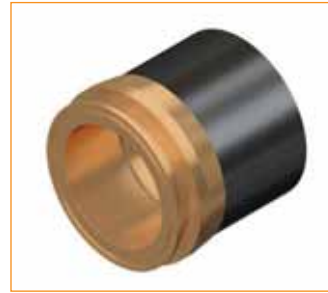
80 Series

Quick Release Transition.

The new UPP quick release transition allows for better and simpler connections in confined spaces. The flange style coupling makes installation easy, no wrenches are required so there is always enough room to work even in the smallest sumps. The quick release system allows for easy assembly and disassembly for time saving installation and repair. It also allows for some assemblies to be removed from inline systems without breaking pipe. The compactness of the fitting itself means it is ideal for small shallow boxes, sumps and pans.

The quick-release transition fitting is perfect for use with Flex-ing's EZ-Fit™ flex connectors or Flex-ing™ flanges inside tank and dispenser sumps.

The specialised gasket material (supplied with the Flex-ing™ products) creates a 100% leak tight seal, allowing no product to escape into the surrounding sump.



80 Series Quick Release - 80.090 QL



81 Series - 81.063 BSPT



81 Series - 81.063 SS BSPT



82 Series - 82.063 SS BSPT



83 Series - 83.063.1 NPT



83 Series - 83.063.1 UF NPT

81 Series

Male Electrofusion Fittings.

- The increased demand for pressure fuel system pipework means UPP is now regularly fitted to shear valves.
- Male threads will avoid the need to use a female thread and hex or reducing nipple.
- Savings can be made in space, time and cost.

81 & 82 Stainless Steel Series

Male and Female Stainless Steel Electrofusion Fittings.

- Stainless (grade 1.4305).
- Compatible with AdBlue and Aviation fuel.

82 Series

Female Electrofusion Fittings.

- Space available under pumps and in tank chambers is at a premium. Smaller footprint and lighter weight fittings can make installation faster and save time and space.

82 UF Series

Union Fittings.

- Where ease of un-coupling is required for adjustment, service or maintenance, the 3 piece Union fitting is ideal.

83 Series

Female 90° Elbows.

- This range of elbow terminations is most commonly used in dispenser sump assemblies. The fittings allow easy coupling of UPP pipework to a steel connector.

83 UF Series

Female Union 90° Elbows.

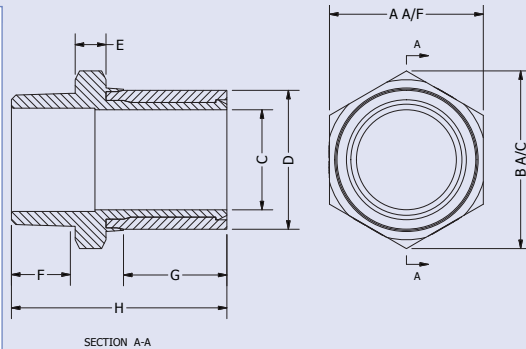
- Union elbows have the advantage of being easy to install and dismantle when necessary.

UPP PRIMARY FITTINGS: TRANSITION FITTINGS

Transition Male

Description	Product Code	Ø (mm/inches)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size
Transition 50mm 1½" BSPT Male	81.050 BSPT	50/1½	6	0.54	1.19	Male	1½" BSPT
Transition 50mm 1½" NPT Male	81.050 NPT	50/1½	6	0.54	1.19	Male	1½" NPT
Transition 63mm 1½" BSPT Male	81.063.1 BSPT	63/1½	6	0.78	1.72	Male	1½" BSPT
Transition 63mm 1½" NPT Male	81.063.1 NPT	63/1½	6	0.77	1.70	Male	1½" NPT
Transition 63mm 2" BSPT Male	81.063 BSPT	63/2	6	0.8	1.76	Male	2" BSPT
Transition 63mm 2" NPT Male	81.063 NPT	63/2	6	0.82	1.81	Male	2" NPT
Transition 90mm 3" BSPT Male	81.090 BSPT	90/3	2	2.04	4.50	Male	3" BSPT
Transition 90mm 3" NPT Male	81.090 NPT	90/3	2	2.04	4.50	Male	3" NPT
Transition 110mm 4" BSPT Male	81.110 BSPT	110/4	2	3.8	8.38	Male	4" BSPT
Transition 110mm 4" NPT Male	81.110 NPT	110/4	2	3.8	8.38	Male	4" NPT

Material:	Bronze/PE	Temperature Rating (°C):	-40 to 50 °C
Pressure Rating (bar/Psi):	10 / 145	Vacuum Rating (-bar/"Hg):	-0.9 / -26.6



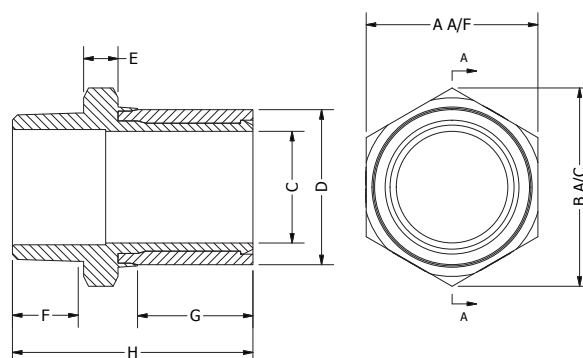
Size Chart

Product Code	A	B	C	D	E	F	G	H
81.050 BSPT	60	69	36	50	12	24	43	90
81.050 NPT	60	69	36	50	12	24	43	90
81.063.1 BSPT	70	81	46	63	14	26	47	98
81.063.1 NPT	70	81	46	63	14	26	47	98
81.063 BSPT	70	81	46	63	14	26	47	98
81.063 NPT	70	81	46	63	14	27	47	98
81.090 BSPT	98	106	70	90	16	35	57	128
81.090 NPT	98	106	70	90	16	35	57	128
81.110 BSPT	123	127	84	110	18	41	70	151
81.110 NPT	123	127	84	110	18	41	70	151

Stainless Steel Transition Male

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size
Stainless Steel Transition 32mm 1" BSPT Male	81.032 SS BSPT	32	50	0.256	0.56	Male	1" BSPT
Stainless Steel Transition 50mm 1½" BSPT Male	81.050 SS BSPT	50	20	0.502	1.11	Male	1½" BSPT
Stainless Steel Transition 63mm 2" BSPT Male	81.063 SS BSPT	63	20	0.756	1.67	Male	2" BSPT

Material:	Stainless Steel/PE
Pressure Rating (bar/Psi):	10 / 145
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C



Size Chart

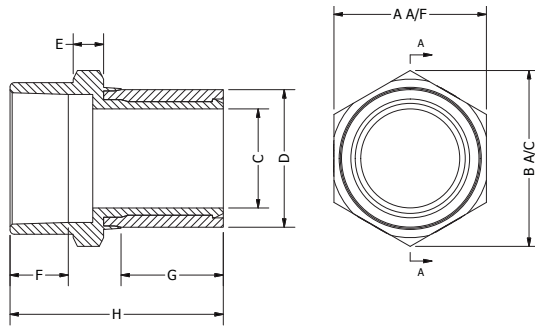
Product Code	A	B	C	D	E	F	G	H
81.032 SS BSPT	40	46	22	32	10	33	36	80
81.050 SS BSPT	60	95	36	50	10	28	44	90
81.063 SS BSPT	70	75	46	63	11	26	48	98

UPP PRIMARY FITTINGS: TRANSITION FITTINGS

Transition Female

Description	Product Code	Ø (mm/ inches)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size
Transition 50mm 1½" BSPT Female	82.050 BSPT	50/1½	6	0.64	1.41	Female	1½" BSPT
Transition 50mm 1½" NPT Female	82.050 NPT	50/1½	6	0.64	1.41	Female	1½" NPT
Transition 63mm 1½" BSPT Female	82.063.1 BSPT	63/1½	6	0.82	1.81	Female	1½" BSPT
Transition 63mm 1½" NPT Female	82.063.1 NPT	63/1½	6	0.82	1.81	Female	1½" NPT
Transition 63mm 2" BSPT Female	82.063 BSPT	63/2	6	0.8	1.76	Female	2" BSPT
Transition 63mm 2" NPT Female	82.063 NPT	63/2	6	0.8	1.76	Female	2" NPT
Transition 90mm 3" BSPT Female	82.090 BSPT	90/3	2	2.18	4.81	Female	3" BSPT
Transition 90mm 3" NPT Female	82.090 NPT	90/3	2	2.18	4.81	Female	3" NPT
Transition 110mm 4" BSPT Female	82.110 BSPT	110/4	2	5.06	11.16	Female	4" BSPT
Transition 110mm 4" NPT Female	82.110 NPT	110/4	2	5.06	11.16	Female	4" NPT

Material:	Bronze/PE	Temperature Rating (°C):	-40 to 50 °C
Pressure Rating (bar/Psi):	10 / 145	Vacuum Rating (-bar/"Hg):	-0.9 / -26.6



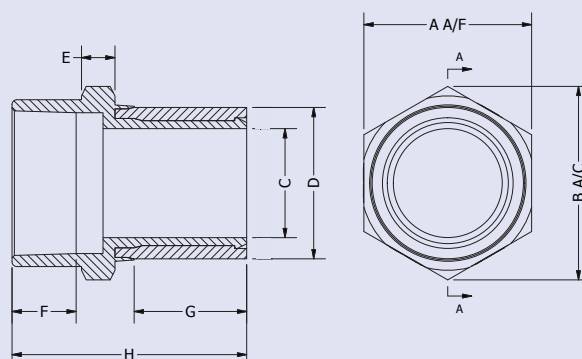
Size Chart

Product Code	A	B	C	D	E	F	G	H
82.050 BSPT	60	69	36	50	12	24	43	90
82.050 NPT	60	69	36	50	12	24	43	90
82.063.1 BSPT	70	81	46	63	14	27	47	98
82.063.1 NPT	70	81	46	63	14	27	47	98
82.063 BSPT	70	81	46	63	14	27	47	98
82.063 NPT	70	81	46	63	14	27	47	98
82.090 BSPT	98	106	70	90	16	35	57	128
82.090 NPT	98	106	70	90	16	35	57	128
82.110 BSPT	123	127	84	110	18	41	70	151
82.110 NPT	123	127	84	110	18	41	70	151

Stainless Steel Transition Female

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size
Stainless Steel Transition 32mm 1" BSPT Female	82.032 SS BSPT	32	50	0.25	0.55	Female	1" BSPT
Stainless Steel Transition 50mm 1½" BSPT Female	82.050 SS BSPT	50	30	0.575	1.27	Female	1½" BSPT
Stainless Steel Transition 63mm 2" BSPT Female	82.063 SS BSPT	63	20	0.785	1.73	Female	2" BSPT

Material:	Stainless Steel/PE
Pressure Rating (bar/Psi):	10 / 145
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C



Size Chart

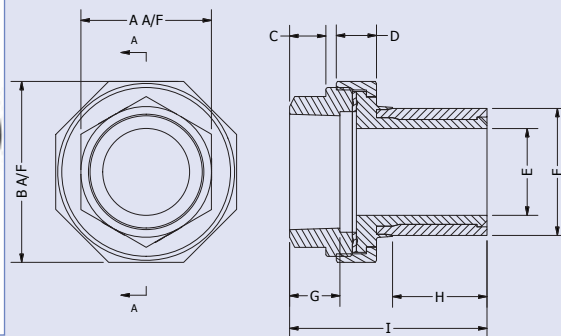
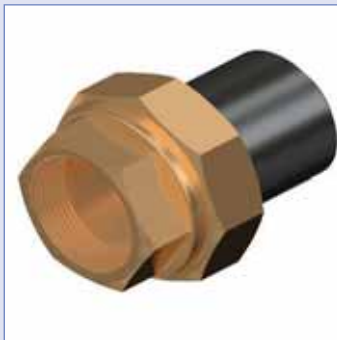
Product Code	A	B	C	D	E	F	G	H
82.032 SS BSPT	40	46	22	32	10	33	36	80
82.050 SS BSPT	60	95	36	50	10	28	44	90
82.063 SS BSPT	70	75	46	63	11	26	48	98

UPP PRIMARY FITTINGS: TRANSITION FITTINGS

Transition Union

Description	Product Code	Ø (mm/ inches)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size
Transition 50mm 1½" Union BSPT	82.050 U/F BSPT	50/1½	6	0.94	2.07	Female	1 ½" BSPT
Transition 50mm 1½" Union NPT	82.050 U/F NPT	50/1½	6	0.94	2.07	Female	1 ½" NPT
Transition 63mm 2" Union BSPT	82.063 UF BSPT	63/2	6	1.22	2.69	Female	2" BSPT
Transition 63mm 2" Union NPT	82.063 UF NPT	63/2	6	1.22	2.69	Female	2" NPT

Material:	Bronze/PE	Temperature Rating (°C):	-40 to 50 °C
Pressure Rating (bar/Psi):	10 / 145	Vacuum Rating (-bar/"Hg):	-0.9 / -26.6



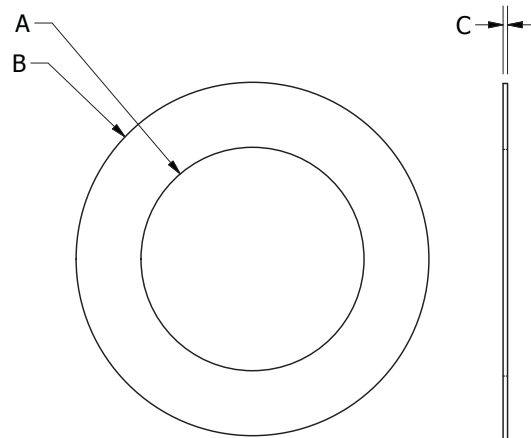
Size Chart

Product Code	A	B	C	D	E	F	G	H	I
82.050 U/F BSPT	55	73	18	22	36	50	17	43	96
82.050 U/F NPT	55	73	18	22	36	50	17	43	96
82.063 UF BSPT	65	90	18	20	43	63	25	47	98
82.063 UF NPT	65	90	18	20	43	63	25	47	98

Gasket for Union Fittings

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)
Gasket 50mm for 82.050 U/F BSPT & NPT	11.50G	50	10	0.004	0.01
Gasket 63mm for 82.063 UF BSPT & NPT	11.63G	63	10	0.003	0.01

Material:	Klingsil C-4430
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Size Chart

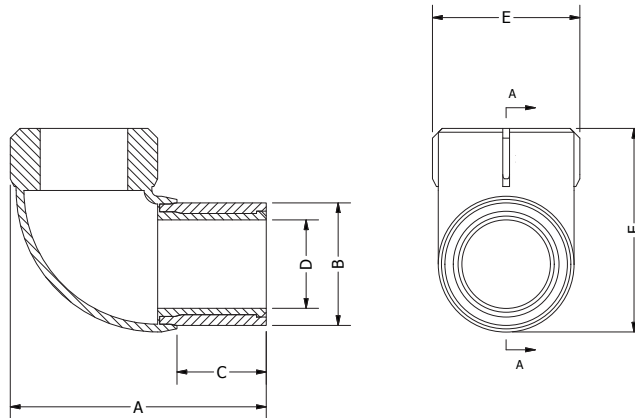
Product Code	A	B	C
11.50G	62	46	1
11.63G	78	60	1

UPP PRIMARY FITTINGS: TRANSITION FITTINGS

Transition Elbow Female

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size
Transition Elbow 50mm 1½" NPT Female	83.050 NPT	50	4	0.74	1.63	Female	1½" NPT
Transition Elbow 63mm 1½" BSPT Female	83.063.1 BSPT	63	4	1.38	3.04	Female	1½" BSPT
Transition Elbow 63mm 1½" NPT Female	83.063.1 NPT	63	5	1.38	3.04	Female	1½" NPT

Material:	Bronze/PE	Temperature Rating (°C):	-40 to 50 °C
Pressure Rating (bar/Psi):	10 / 145	Vacuum Rating (-bar/"Hg):	-0.9 / -26.6



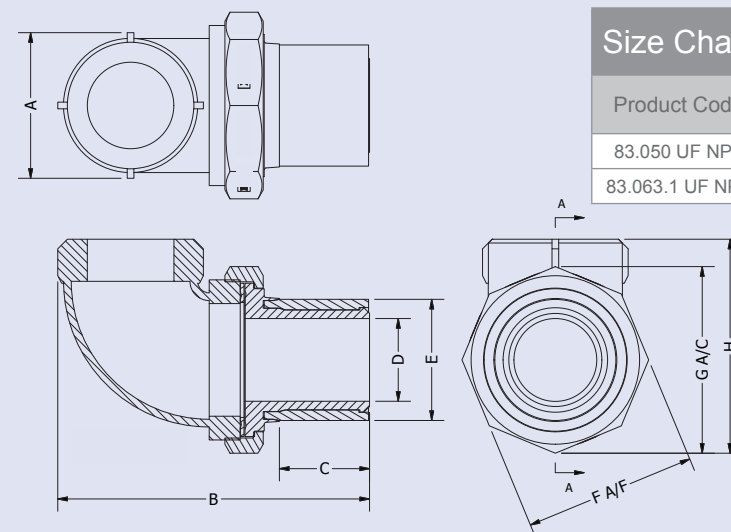
Size Chart

Product Code	A	B	C	D	E	F
83.050 NPT	118	50	43	36	66	95
83.063.1 BSPT	132	63	46	46	76	105
83.063.1 NPT	132	63	46	46	76	105

Transition Elbow Union

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size
Transition Elbow 50mm 1½" Union NPT	83.050 UF NPT	50	5	1.28	2.82	Female	1½" NPT
Transition Elbow 63mm 1½" Union NPT	83.063.1 UF NPT	63	4	1.86	4.10	Female	1½" NPT

Material:	Bronze/PE	Temperature Rating (°C):	-40 to 50 °C
Pressure Rating (bar/Psi):	10 / 145	Vacuum Rating (-bar/"Hg):	-0.9 / -26.6



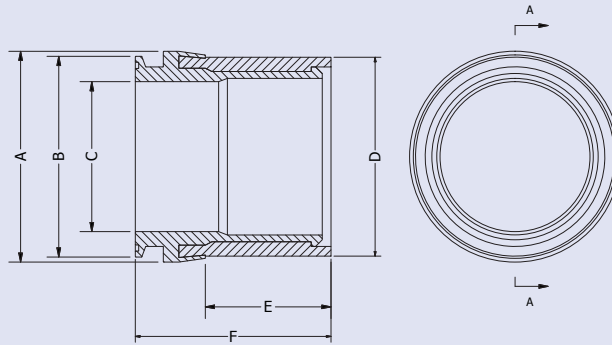
Size Chart

Product Code	A	B	C	D	E	F	G	H
83.050 UF NPT	66	144	43	36	50	73	79	91
83.063.1 UF NPT	76	163	47	43	63	90	97	112

UPP PRIMARY FITTINGS: TRANSITION FITTINGS

Transition Quick Release

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)
Transition 63mm 2" Quick Release	80.063 QL	63	6	0.45	0.99
Transition 90mm 3" Quick Release	80.090 QL	90	5	1.25	2.76



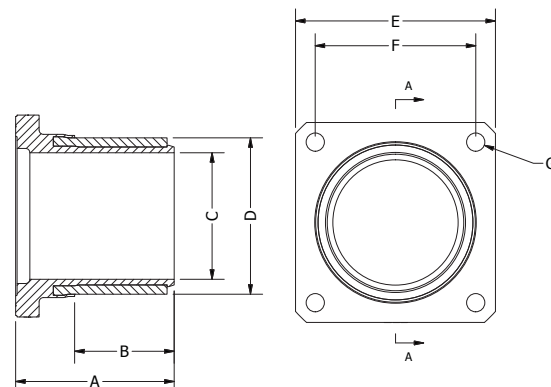
Material:	Bronze/PE
Pressure Rating (bar/Psi):	10 / 145
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C

Size Chart

Product Code	A	B	C	D	E	F
80.063 QL	65	63	45	63	47	69
80.090 QL	96	91	68	90	57	89

Square Flanged Transition

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)
Square Flanged Transition 50mm	80.050F	50	6	0.57	1.26
Square Flanged Transition 63mm	80.063F	63	6	0.83	1.83
Square Flanged Transition 90mm	80.090F	90	4	1.97	4.34
Square Flanged Transition 110mm	80.110F	110	2	3.45	7.61



Material:	Bronze/PE
Pressure Rating (bar/Psi):	10 / 145
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C

Size Chart

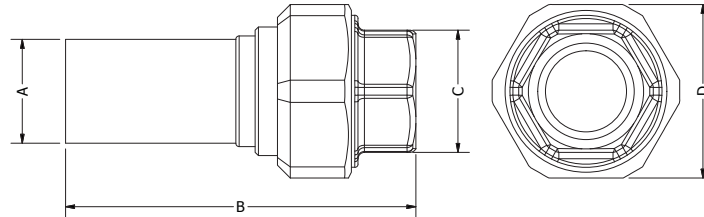
Product Code	A	B	C	D	E	F	G
80.050F	64	40	35	50	76	57	9
80.063F	71	47	46	63	83	64	9
80.090F	91	57	71	90	114	89	11
80.110F	112	70	89	110	142	114	13

UPP PRIMARY FITTINGS: TRANSITION FITTINGS

Union Adaptor

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size
32mm x 1" Union Adaptor	11.32UF	32	20	0.34	0.75	Female	1" BSP

Material:	Galvanised Steel/PE	Temperature Rating (°C):	-40 to 50 °C
Pressure Rating (bar/Psi):	10 / 145	Vacuum Rating (-bar/"Hg):	-0.9 / -26.6



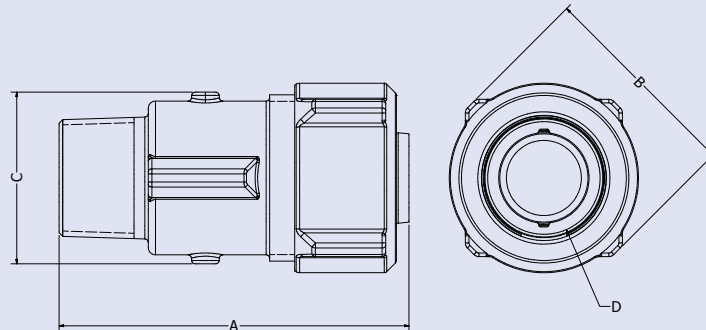
Size Chart

Product Code	A	B	C	D
11.32UF	32	109	38	54

Straight Compression Transition Male

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size
Compression Transition 1" BSPT Male	11.321	32	25	0.42	0.93	Male	1" BSPT

Material:	Galvanised Steel	Temperature Rating (°C):	-40 to 50 °C
Pressure Rating (bar/Psi):	10 / 145	Vacuum Rating (-bar/"Hg):	-0.9 / -26.6



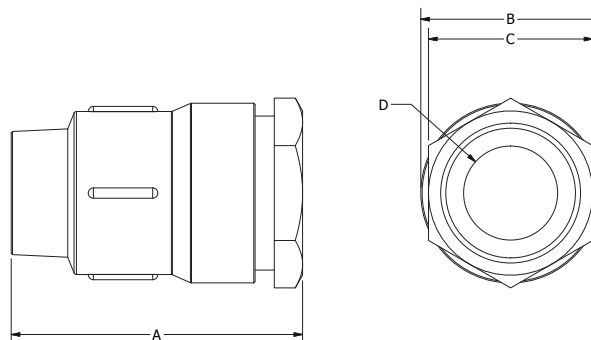
Size Chart

Product Code	A	B	C	D
11.321	98	58	48	32

Straight Compression Transition Male

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size
Compression Transition 1½" BSPT Male	11.501	50	10	1.02	2.25	Male	1½" BSPT

Material:	Bronze	Temperature Rating (°C):	-40 to 50 °C
Pressure Rating (bar/Psi):	10 / 145	Vacuum Rating (-bar/"Hg):	-0.9 / -26.6



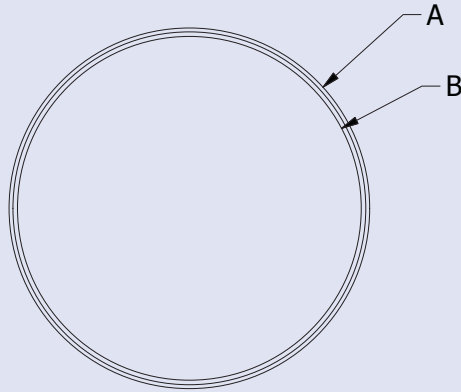
Size Chart

Product Code	A	B	C	D
11.501	114	70	64	50

UPP PRIMARY FITTINGS: TRANSITION FITTINGS

Olive For 11.501 Transition Fittings

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size	Material:
Transition Compression 1" Male	11.501.OL	50	10	0.02	0.04	N/A	N/A	Bronze



Size Chart

Product Code	A	B	C
11.501.OL	53	51	12

Compression Elbow

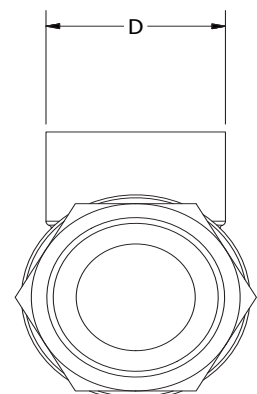
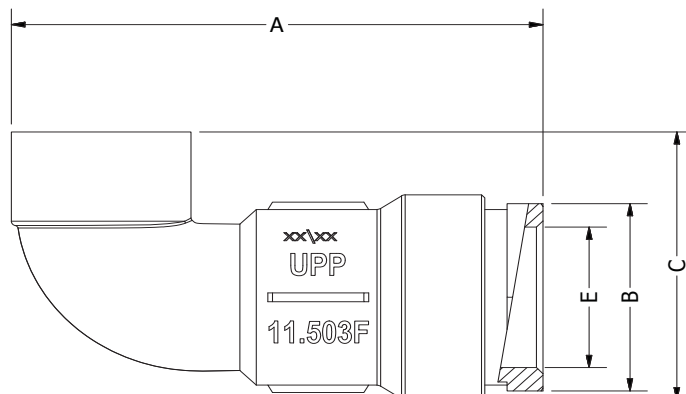
Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size
Compression Elbow 50mm 1½" BSP	11.503F	50	5	1.58	3.48	Female	1½" BSP

Material:	Bronze	Temperature Rating (°C):	-40 to 50 °C
Pressure Rating (bar/Psi):	10 / 145	Vacuum Rating (-bar/"Hg):	-0.9 / -26.6



Size Chart

Product Code	A	B	C	D	E
11.503F	163	64	92	55	50



UPP PRIMARY FITTINGS: TRANSITION FITTINGS

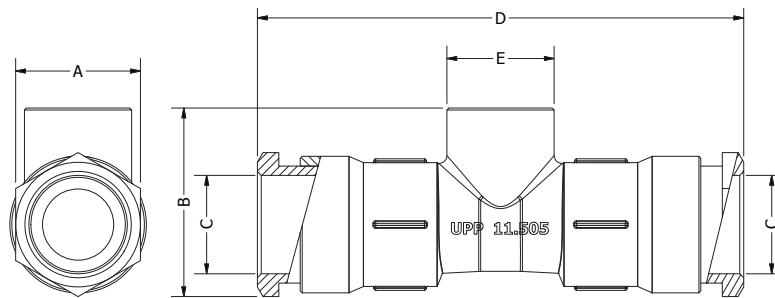
Compression Tee

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size
Compression Tee 50mm 1½" BSP	11.505	50	5	2.5	5.51	Female	1½" BSP

Material:	Bronze	Temperature Rating (°C):	-40 to 50 °C
Pressure Rating (bar/Psi):	10 / 145	Vacuum Rating (-bar/"Hg):	-0.9 / -26.6

Size Chart

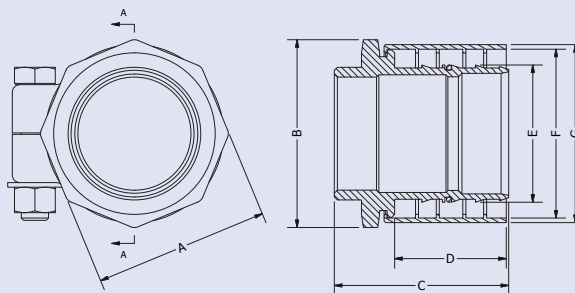
Product Code	A	B	C	D	E
11.505	64	97	50	250	55



Wipex Transition

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size
Wipex Transition 1½" BSP 63mm	12.63.1	63	12	1.09	2.40	Male	1½" BSP
Wipex Transition 2" BSP 63mm	12.63	63	12	1.02	2.25	Male	2" BSP
Wipex Transition 3" BSP 90mm	12.90	90	6	2.73	6.01	Male	3" BSP
Wipex Transition 3" BSP 110mm	12.110	110	4	3.5	7.72	Male	3" BSP

Material:	Bronze	Temperature Rating (°C):	-40 to 50 °C
Pressure Rating (bar/Psi):	10 / 145	Vacuum Rating (-bar/"Hg):	-0.9 / -26.6

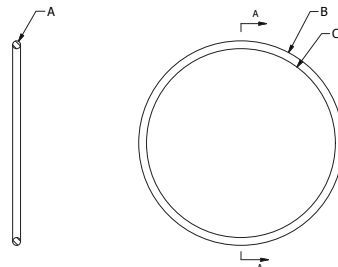


Size Chart

Product Code	A	B	C	D	E	F	G
12.63.1	74	80	86	47	51	65	70
12.63	73	79	80	44	50	64	70
12.90	108	116	105	61	73	92	100
12.110	116	125	116	74	91	112	118

O Ring

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)	Material	Temperature Rating (°C)
O Ring for 12.63 Wipex Transition	12.63.ORING	63	1	0.002	0.004	Nitrile rubber	-20 to 50 °C
O Ring for 12.110 Wipex Transition	12.110.OR	110	1	0.002	0.004	Nitrile rubber	-20 to 50 °C



Size Chart

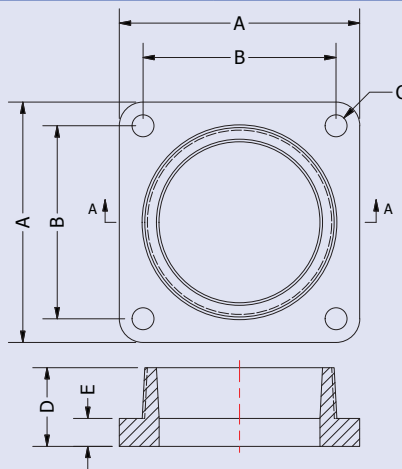
Product Code	A	B	C
12.63.ORING	2.5	51	46
12.110.OR	4	91	84

UPP PRIMARY FITTINGS: TRANSITION FITTINGS

Coupling Flange Male

Description	Product Code	Ø (inch)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size
Coupling Flange 1½" BSPT Male	DN40M	1½"	30	0.49	1.08	Male	1½" BSPT
Coupling Flange 2" BSPT Male	DN50M	2"	25	0.66	1.46	Male	2" BSPT
Coupling Flange 2" NPT Male	DN50M NPT	2"	40	0.634	1.40	Male	2" NPT
Coupling Flange 3" BSPT Male	DN80M	3"	10	1.312	2.89	Male	3" BSPT
Coupling Flange 4" BSPT Male	DN100M	4"	1	2.44	5.38	Male	4" BSPT

Material:	Cast Iron/Zinc Plated	Temperature Rating (°C):	-40 to 50 °C
Pressure Rating (bar/Psi):	10 / 145	Vacuum Rating (-bar/"Hg):	-0.9 / -26.6



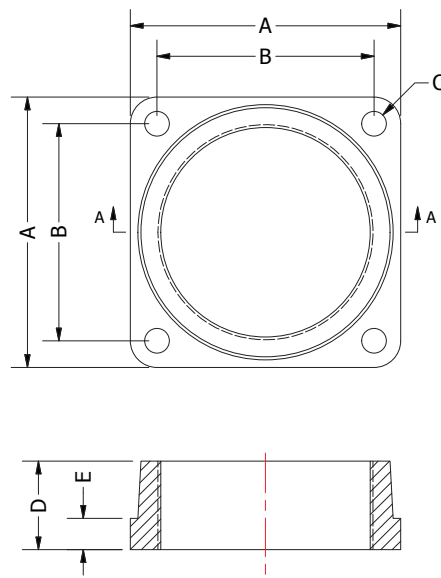
Size Chart

Product Code	A	B	C	D	E
DN40M	78	57	9	41	16
DN50M	87	64	9	46	15
DN50M NPT	87	64	9	46	15
DN80M	114	89	11	30	12
DN100M	142	114	13	47	17

Coupling Flange Female

Description	Product Code	Ø (inch)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size
Coupling Flange 1½" BSP Female	DN40F	1½"	30	0.418	0.92	Female	1½" BSP
Coupling Flange 2" BSP Female	DN50F	2"	30	0.498	1.10	Female	2" BSP
Coupling Flange 3" BSP Female	DN80F	3"	20	0.96	2.12	Female	3" BSP
Coupling Flange 4" BSP Female	DN100F	4"	1	2.042	4.50	Female	4" BSP

Material:	Cast Iron/Zinc Plated	Temperature Rating (°C):	-40 to 50 °C
Pressure Rating (bar/Psi):	10 / 145	Vacuum Rating (-bar/"Hg):	-0.9 / -26.6



Size Chart

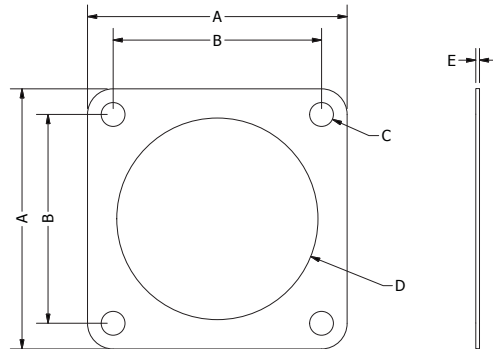
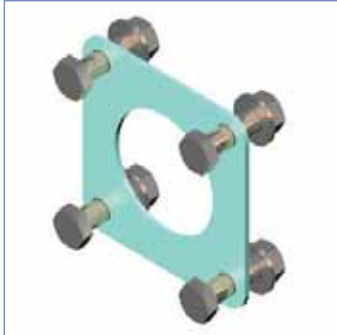
Product Code	A	B	C	D	E
DN40F	78	58	9	25	11
DN50F	83	64	9	31	13
DN80F	115	88	11	36	15
DN100F	142	114	13	47	17

UPP PRIMARY FITTINGS: TRANSITION FITTINGS

Gasket & Bolt Set

Description	Product Code	Ø (inch)	Pack	Weight (kg)	Weight (lbs)
Gasket & Bolt Set for DN40	DN40/2	1½"	1	0.12	0.26
Gasket & Bolt Set for DN50	DN50/2	2"	1	0.108	0.24
Gasket & Bolt Set for DN80	DN80/2	3"	1	0.224	0.49
Gasket & Bolt Set for DN100	DN100/2	4"	1	0.33	0.73

Material:	Klingsil: C-4430 / Zinc Plated
Pressure Rating (bar/Psi):	10 / 145
Temperature Rating (°C):	-40 to 50 °C
Vacuum Rating (-bar/"Hg):	-0.9 / -26.6

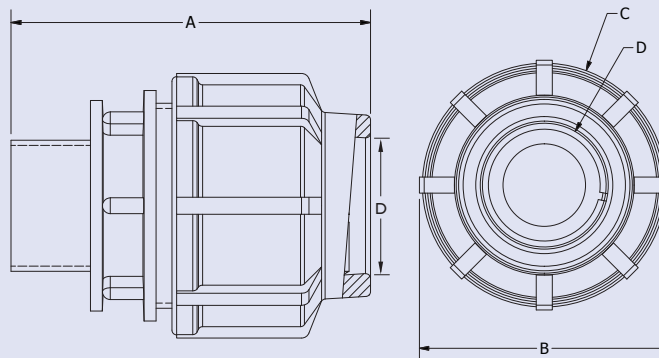


Size Chart

Product Code	A	B	C	D	E
DN40/2	76	57	9	45	2
DN50/2	83	64	9	58	2
DN80/2	114	89	11	86	2
DN100/2	142	114	13	110	2

Termination Compression Orange

Description	Product Code	Ø (mm)	Pack	Weight (kg)	Weight (lbs)	Thread Type	Thread Size	Material:
Termination 32mm 1" BSPT Compression Orange	11-032-EC	32	25	0.106	0.23	Male	1" BSPT	Polypropylene



Size Chart

Product Code	A	B	C	D
11-032-EC	91	67	65	32

Secondary Containment

Containment systems in general are employed as a means of containing any product that may be lost from a fuel system. The bulk of primary pipework within an installation can be contained simply by adding a secondary pipe to sheath the primary.

Due to the nature of secondary pipe and containment systems, additional fittings are required to accommodate the integration with the primary pipework. At each connection between primary pipe and fittings, secondary fittings are required to contain the joint. Secondary pipe is terminated or closed on to the primary pipe using terminating reducers and this is completed at each end of a pipe run before making the transition to steel on the primary pipework. The electrofusion principles are the same for both primary and secondary systems.

Entry seals are used to allow safe penetration of the pipe-work through the wall of containment sumps. UPP systems offer a unique range of electrofusion entry seals that permanently weld to both the pipework and the sump wall when polyethylene containment sumps are used.

The polyethylene construction of UPP pipe allows all connections to be joined using an electrofusion welding process; providing a joint which is stronger than the pipe itself, and with no leak paths.

The UV stable secondary containment pipe has been developed in response to a requirement for above ground use such as at marinas, military sites and fuel depots. The ultra violet stability means the pipe can be installed above ground with no adverse effect caused by exposure to sunlight. The pipe is equally suitable for underground installations.

Pipe has passed testing to EN14125, temperature class T1 from -40°C to +50°C.

- Full double wall fittings.
- 100% annular interstitial.
- Fully welded assembly.
- No leak paths.

The Secondary Containment Pipe system features:

- Co-axial sleeve pipe co-extruded over UPP Extra lined primary pipe.
- Variety of pipe diameters available.
- Uninterrupted interstitial space between the primary and secondary pipe.
- Leak detection system available.
- Available in straight lengths or coils.
- Full range of Secondary Containment fittings (4 bar rated).

Primary/Secondary Containment pipe diameter compatibility chart

		Primary (Single Wall)					
		32mm 1"	50mm 1½"	63mm 2"	90mm 3"	110mm 4"	160mm 6"
Secondary (Double Wall)	40mm (1¼")	X					
	63mm (2")		X				
	75mm (3")			X			
	110mm (4")		Y	Y	X		
	125mm (5")					X	
	160mm (6")				X	X	
	250mm (8")						X

X=Standard.

Y=Compatible (not standard).

Blank=Non Compatible.



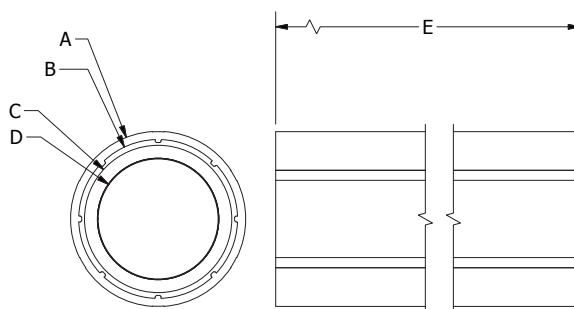
Secondary Containment

UPP SECONDARY PIPE

Coaxial UPP Extra

Description	Product Code	Unit (m)	Pack	Weight/unit (kg)	Weight/unit (lbs)	SDR	Primary I/D (mm)	Bend Radius (m)
Coaxial UPP Extra	001-040-032-050	50m Coil	50	0.64	0.43	11 / 17	26.2	0.6
Coaxial UPP Extra	001-040-032-100	100m Coil	100	0.64	0.43	11 / 17	26.2	0.6
Coaxial UPP Extra	001-063-050-010-EN	10m Stick	10	1.06	0.71	13.6 / 26	42.6	0.9
Coaxial UPP Extra	001-063-050-030-EN	30m Coil	30	1.06	0.71	13.6 / 26	42.6	0.9
Coaxial UPP Extra	001-063-050-100-EN	100m Coil	100	1.06	0.71	13.6 / 26	42.6	0.9
Coaxial UPP Extra	001-075-063-010-EN	10m Stick	460	1.56	1.05	13.6 / 26	53.6	1.12
Coaxial UPP Extra	001-075-063-030-EN	30m Coil	30	1.56	1.05	13.6 / 26	53.6	1.12
Coaxial UPP Extra	001-075-063-050-EN	50m Coil	50	1.56	1.05	13.6 / 26	53.6	1.12
Coaxial UPP Extra	001-075-063-100-EN	100m Coil	100	1.56	1.05	13.6 / 26	53.6	1.12

Material:	PE	Primary Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Primary Pressure Rating (bar/Psi):	10 / 145	Secondary Vacuum Rating (-bar/"Hg):	-0.6 / -17.8
Secondary Pressure Rating (bar/Psi):	5 / 72	Primary Colour:	Black
Temperature Rating (°C):	-40 to 50 °C	Secondary Colour:	Black/Green stripe



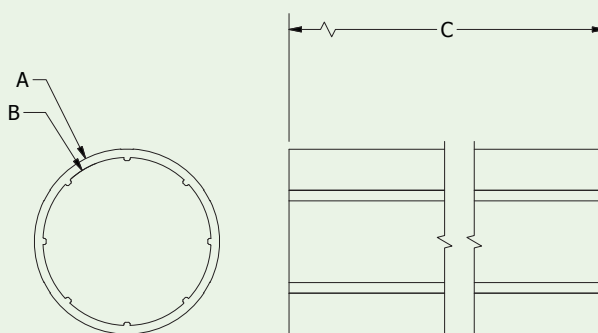
Size Chart

Product Code	A	B	C	D	E
001-040-032-050	40	35	32	26	50m
001-040-032-100	40	35	32	26	100m
001-063-050-010-EN	63	57	50	42.6	10m
001-063-050-030-EN	63	57	50	42.6	30m
001-063-050-100-EN	63	57	50	42.6	100m
001-075-063-010-EN	75	68	63	53.6	10m
001-075-063-030-EN	75	68	63	53.6	30m
001-075-063-050-EN	75	68	63	53.6	50m
001-075-063-100-EN	75	68	63	53.6	100m

Secondary Sleeve

Description	Product Code	Unit (m)	Pack (m)	Weight/unit (kg)	Weight/unit (lbs)	SDR	Primary I/D (mm)	Bend Radius (m)	Secondary Colour
Secondary Sleeve	000-063-008-SC-EN	8m Stick	544	0.50	0.34	26	n/a	0.9	Black/Green stripe
Secondary Sleeve	000-075-006-SC-EN	6m Stick	276	0.67	0.45	26	n/a	1.12	Black/Green stripe
Secondary Sleeve	000-075-008-SC-EN	8m Stick	368	0.67	0.45	26	n/a	1.12	Black/Green stripe
Secondary Sleeve	000-110-006-SC-EN	6m Stick	138	1.46	0.98	26	n/a	2.75	Black/Green stripe
Secondary Sleeve	000-125-006-SC-EN	6m Stick	90	1.89	1.27	26	n/a	3.1	Black/Green stripe
Secondary Sleeve	000-160-006-SC-EN	6m Stick	54	3.02	2.10	26	n/a	N/A	Black/Green stripe

Material:	PE	Temperature Rating (°C):	-40 to 50 °C
Secondary Pressure Rating (bar/Psi):	5 / 72	Secondary Vacuum Rating (-bar/"Hg):	-0.6 / -17.8



Size Chart

Product Code	A	B	C
000-063-008-SC-EN	63	57	8m
000-075-006-SC-EN	75	68	6m
000-075-008-SC-EN	75	68	8m
000-110-006-SC-EN	110	100	6m
000-125-006-SC-EN	125	115	6m
000-160-006-SC-EN	160	147	6m

UPP DUCT & ELECTROFUSION FITTINGS

Flexible PE Duct

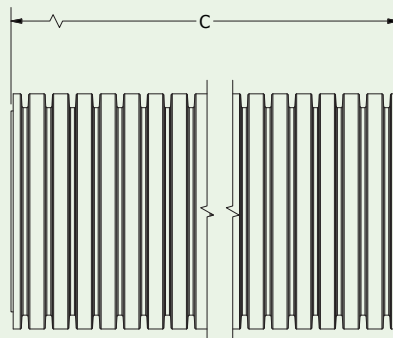
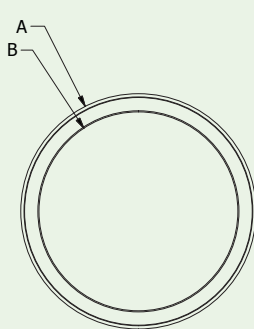
Description	Product Code	Unit (m)	Pack (m)	Weight per unit/meter (kg)	Weight per unit/foot (lbs)	Bend Radius (m)	Primary Colour
Flexible PE Duct	00-110-050-DUCT-2	50m Coil	50	0.82	0.55	0.8	Black

Material:

PE

Temperature Rating (°C):

-40 to 50 °C



Size Chart

Product Code	A	B	C
00-110-050-DUCT-2	110	93	50m

Secondary Welding Coupler

Description	Product Code	Ø (mm)	Pack (m)	Weight/ unit/(kg)	Weight/ unit (lbs)	Resistance (ohm)	Weld Pin Size	Weld Index	Insertion Depth (mm)
Secondary Welding Coupler UPP 40mm SC	02.40(SC)	40	20	0.06	0.13	6	2mm	10	29
Secondary Welding Coupler UPP 63mm SC	02.63(SC)	63	20	0.1	0.22	9	2mm	10	29
Secondary Welding Coupler UPP 75mm SC	02.75(SC)	75	20	0.11	0.24	11	2mm	10	29
Secondary Welding Coupler UPP 110mm SC	02.110(SC)	110	35	0.17	0.37	19	2mm	10	29
Secondary Welding Coupler UPP 125mm SC	02.125(SC)	125	25	0.192	0.42	23	2mm	10	29
Secondary Welding Coupler UPP 160mm SC	02.160(SC)	160	20	0.33	0.73	36	2mm	10	32

Material:

PE

Temperature Rating (°C):

-40 to 50 °C

Welding current (Amps):

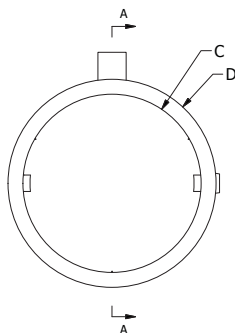
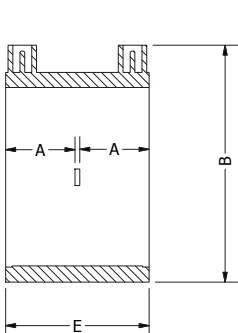
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Secondary Pressure Rating (bar/Psi):

4 / 58

Secondary Vacuum Rating (-bar/"Hg):

-0.6 / -17.8



Size Chart

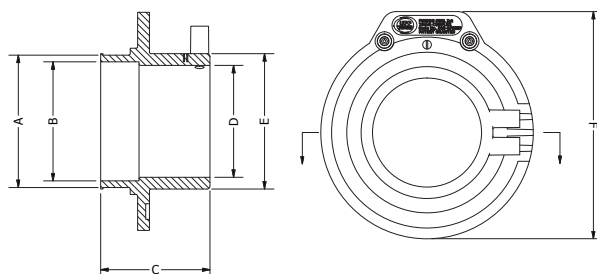
Product Code	A	B	C	D	E
02.40(SC)	29	64	41	53	61
02.63(SC)	29	88	64	77	61
02.75(SC)	29	100	76	89	61
02.110(SC)	29	137	111	126	61
02.125(SC)	29	153	125	142	61
02.160(SC)	32	192	162	181	65

SECONDARY FITTINGS: ELECTROFUSION SEAL FITTINGS

Electrofusion Seal With Coupler

Description	Product Code	Ø (mm)	Pack Size	Weight (kg)	Weight (lbs)	Resistance (ohms)	Weld index Value	Holesaw Required	Hole Diameter (mm)	Clamp Required
Electrofusion Seal with coupler	303-063-EIF	63	20	0.24	0.53	6 Flange, 8 Coupler	2 Flange, 2 Coupler	HS3	102	303-CLAMP
Electrofusion Seal with coupler	303-075-EIF	75	20	0.24	0.53	6 Flange, 9 Coupler	2 Flange, 3 Coupler	HS3	102	303-CLAMP

Material:	PE	Welding current (Amps):	4 Flange, 5 Coupler
Temperature Rating (°C):	-40 to 50 °C	Weld Pin Size:	4mm Flange, 2mm Coupler



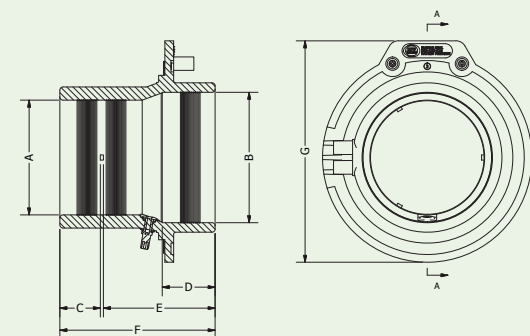
Size Chart

Product Code	A	B	C	D	E	F
303-063-EIF	90	81	74	63	80	158
303-075-EIF	90	81	74	75	92	158

Electrofusion Seal With Coupler and Reducer

Description	Product Code	Ø (mm)	Pack Size	Weight (kg)	Weight (lbs)	Resistance (ohms)	Weld index Value	Holesaw Required	Hole Diameter (mm)	Clamp Required
Electrofusion Seal with coupler and Test Port	304-110-090-TP	90	10	0.56	1.23	11 Flange, 18 Coupler	3 Flange, 5 Coupler	HS5	140	304-CLAMP
Electrofusion Seal with coupler	304-110-090	90	5	0.56	1.23	11 Flange, 18 Coupler	3 Flange, 5 Coupler	HS5	140	304-CLAMP
Electrofusion Seal with coupler and Test Port	305-125-110-TP	110	10	0.92	2.03	12 Flange, 21 Coupler	3 Flange, 6 Coupler	HS6	160	305-EXT-CLAMP
Electrofusion Seal with coupler	305-125-110	110	5	0.91	2.01	12 Flange, 21 Coupler	3 Flange, 6 Coupler	HS6	160	305-EXT-CLAMP

Material:	PE	Primary Pressure Rating (bar/Psi):	10 / 145
Welding current (Amps):	4	Primary Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C	Secondary Pressure Rating (bar/Psi):	4 / 58
		Secondary Vacuum Rating (-bar/"Hg):	-0.6 / -17.8



Size Chart

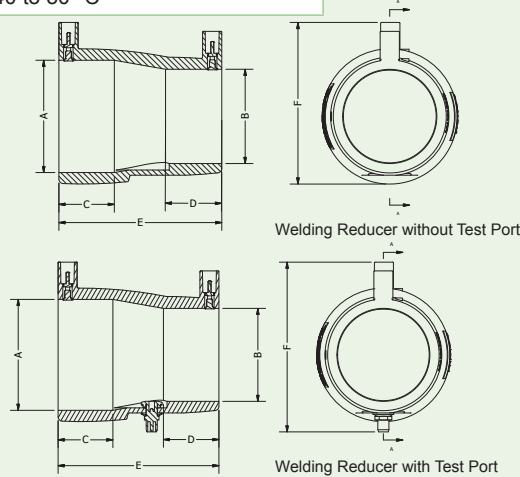
Product Code	A	B	C	D	E	F	G
304-110-090-TP	90	110	39	46	104	139	194
304-110-090	90	110	39	46	104	139	194
305-125-110-TP	110	125	39	51	108	150	214
305-125-110	110	125	39	51	108	150	214

SECONDARY FITTINGS: TERMINATION FITTINGS

Terminating Welding Reducer

Description	Product Code	Ø (mm)	Pack (m)	Weight/ unit/(kg)	Weight/ unit (lbs)	Resistance (ohm)	Weld Pin Size	Weld Index
SC Welding Reducer 40/32mm	49-040-032	40/32	50	0.06	0.13	6.8	2	3
SC Welding Reducer 40/32mm with Test Port	49-040-032-TP	40/32	50	0.08	0.18	6.8	2	3
SC Welding Reducer 63/50mm	49-063-050	63/50	45	0.18	0.40	14.9	2	5
SC Welding Reducer 63/50mm with Test Port	49-063-050-TP	63/50	45	0.2	0.44	14.9	2	5
SC Welding Reducer 75/63mm	49-075-063-1	75/63	25	0.2	0.44	16	2	6
SC Welding Reducer 75/63mm with Test Port	49-075-063-TP-1	75/63	25	0.22	0.49	16	2	6

Material:	PE	Secondary Pressure Rating (bar/Psi):	4 / 58
Welding current (Amps):	5	Secondary Vacuum Rating (-bar/"Hg):	-0.6 / -17.8
Temperature Rating (°C):	-40 to 50 °C		



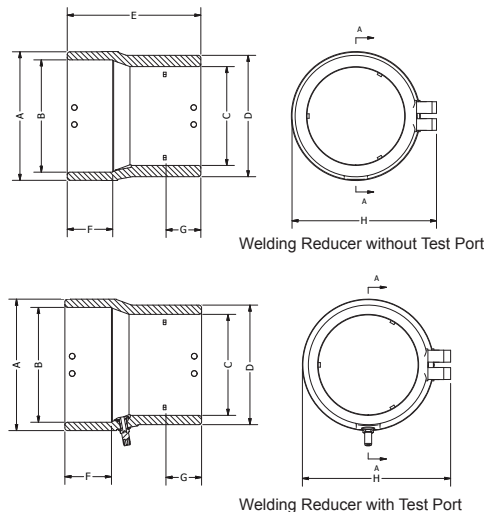
Size Chart

Product Code	A	B	C	D	E	F
49-040-032	40	32	32	38	85	74
49-040-032-TP	40	32	32	38	85	85
49-063-050	63	50	42	44	110	99
49-063-050-TP	63	50	42	44	110	105
49-075-063-1	75	63	38	38	110	109
49-075-063-TP-1	75	63	38	38	110	116

Terminating Welding Reducer

Description	Product Code	Ø (mm)	Pack (m)	Weight/ unit/(kg)	Weight/ unit (lbs)	Resistance (ohm)	Weld Pin Size	Weld Index
SC Welding Reducer 110/90mm	49-110-090	110/90	10	0.5	1.10	21 & 18	4	6 & 5
SC Welding Reducer 110/90mm with Test Port	49-110-090-TP	110/90	10	0.51	1.12	21 & 18	4	6 & 5
SC Welding Reducer 125/110mm	49-125-110	125/110	10	0.617	1.36	28 & 21	4	7 & 6
SC Welding Reducer 125/110mm with Test Port	49-125-110-TP	125/110	10	0.75	1.65	28 & 21	4	7 & 6

Material:	PE	Primary Pressure Rating (bar/Psi):	10 / 145
Welding current (Amps):	4	Primary Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C	Secondary Pressure Rating (bar/Psi):	4 / 58
		Secondary Vacuum Rating (-bar/"Hg):	-0.6 / -17.8



Size Chart

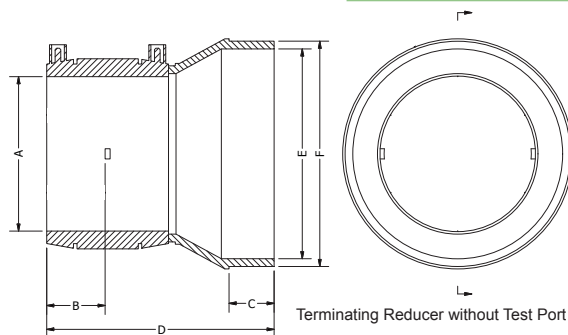
Product Code	A	B	C	D	E	F	G	H
49-110-090	131	110	90	107	139	46	39	148
49-110-090-TP	131	110	90	107	139	46	39	148
49-125-110	144	125	110	131	150	51	39	164
49-125-110-TP	144	125	110	131	150	51	39	164

SECONDARY FITTINGS: TERMINATION FITTINGS

Terminating Reducer

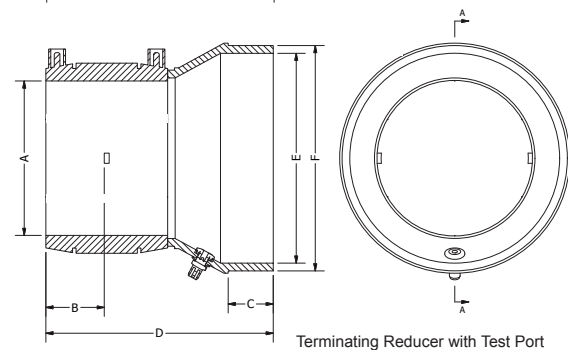
Description	Product Code	Ø (mm)	Pack (m)	Weight/ unit/ (kg)	Weight/ unit/ (lbs)	Resistance (ohm)	Weld Pin Size	Weld Index	Welding current (Amps)	Primary Pressure Rating (bar)	Primary Vacuum Rating (-bar)
SC Terminating Reducer 75/40mm	13.75.40(SC)	75/40	40	0.162	0.36	6	2	10	5	n/a	n/a
SC Terminating Reducer 160/90mm	13.160.90	160/90	10	0.62	1.37	19	4	4	4	10	-0.9
SC Terminating Reducer 160/90mm with Test Port	13.160.90.TP	160/90	10	0.65	1.43	19	4	4	4	10	-0.9
SC Terminating Reducer 160/110mm	13.160.110	160/110	10	0.55	1.21	28	4	6	4	10	-0.9
SC Terminating Reducer 160/110mm with Test Port	13.160.110.TP	160/110	10	0.583	1.29	28	4	6	4	10	-0.9

Material:	PE	Primary Pressure Rating (bar/Psi):	10 / 145
Welding current (Amps):	4	Primary Vacuum Rating (-bar/"Hg):	-0.9 / -26.6
Temperature Rating (°C):	-40 to 50 °C	Secondary Pressure Rating (bar/Psi):	4 / 58
		Secondary Vacuum Rating (-bar/"Hg):	-0.6 / -17.8



Size Chart

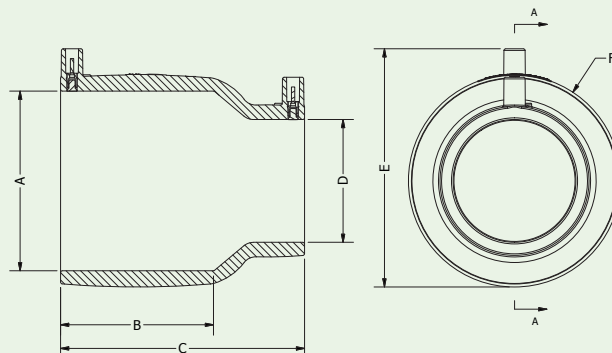
Product Code	A	B	C	D	E	F
13.75.40(SC)	40	30	45	128	60	75
13.160.90	90	36	35	170	146	160
13.160.90.TP	90	36	35	170	146	160
13.160.110	110	42	32	162	149	160
13.160.110.TP	110	42	32	162	149	160



Sliding Welding Reducer

Description	Product Code	Ø (mm)	Pack (m)	Weight/ unit/ (kg)	Weight/ unit/ (lbs)	Resistance (ohm)	Weld Pin Size	Weld Index
SC Sliding Welding Reducer 110/63mm	49-110-063(SC)	110/63	15	0.48	1.06	20	2	6
SC Sliding Welding Reducer 110/75mm	49-110-075(SC)	110/75	15	0.48	1.06	21	2	6

Material:	PE	Secondary Pressure Rating (bar/Psi):	4 / 58
Welding current (Amps):	5	Secondary Vacuum Rating (-bar/"Hg):	-0.6 / -17.8
Temperature Rating (°C):	-40 to 50 °C		



Size Chart

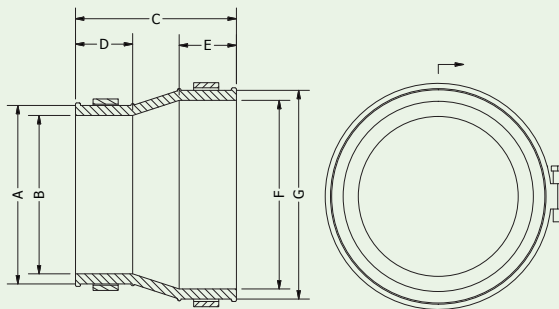
Product Code	A	B	C	D	E	F
49-110-063(SC)	110	87	150	63	146	130
49-110-075(SC)	110	94	150	75	146	130

SECONDARY FITTINGS: PLAIN

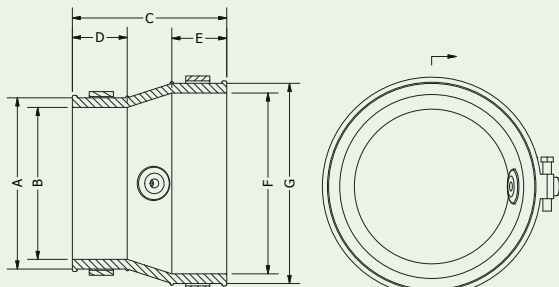
Terminating Boot

Description	Product Code	Ø (mm)	Pack (m)	Weight/ unit/(kg)	Weight/ unit (lbs)
SC Terminating Boot 40/32mm	29-040-032-1	40/32	50	0.09	0.20
SC Terminating Boot 40/32mm with Test Port	29-040-032-TP-1	40/32	50	0.09	0.20
SC Terminating Boot 63/50mm	29-063-050-1	75/63	50	0.154	0.34
SC Terminating Boot 63/50mm with Test Port	29-063-050-TP-1	63/50	50	0.154	0.34
SC Terminating Boot 75/63mm	29-075-063-1	75/63	50	0.163	0.36
SC Terminating Boot 75/63mm with Test Port	29-075-063-TP-1	75/63	50	0.163	0.36

Material:	Nitrile Rubber
Temperature Rating (°C):	-40 to 50 °C



Terminating Boot without Test Port



Terminating Boot with Test Port

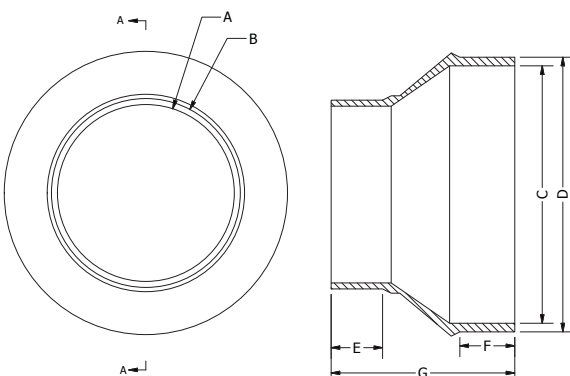
Size Chart

Product Code	A	B	C	D	E	F	G
29-040-032-1	40	32	64	23	23	40	48
29-040-032-TP-1	40	32	64	23	23	40	48
29-063-050-1	58	50	64	23	23	63	71
29-063-050-TP-1	58	50	64	23	23	63	71
29-075-063-1	71	63	64	23	23	75	83
29-075-063-TP-1	71	63	64	23	23	75	83

Secondary Reducer

Description	Product Code	Ø (mm)	Pack (m)	Weight/ unit/(kg)	Weight/ unit (lbs)
Reducer 110 - 75mm Secondary	09.110.75(SC)	110/75	15	0.1	0.22
Reducer 125 - 110mm Secondary	09.125.110(SC)	125/110	40	0.146	0.32
Reducer 160 - 110mm Secondary	09.160.110(SC)	160/110	5	0.2	0.44
Reducer 160 - 125mm Secondary	09.160.125(SC)	160/125	5	0.21	0.46

Material:	PE
Secondary Pressure Rating (bar/Psi):	4 / 58
Secondary Vacuum Rating (-bar/"Hg):	-0.6 / -17.8
Temperature Rating (°C):	-40 to 50 °C



Size Chart

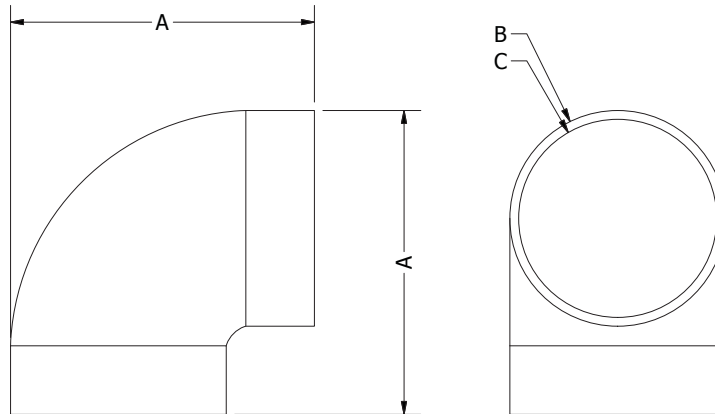
Product Code	A	B	C	D	E	F	G
09.110.75(SC)	70	75	100	110	30	30	80
09.125.110(SC)	101	110	114	125	30	30	80
09.160.110(SC)	103	110	150	160	30	32	99
09.160.125(SC)	118	125	150	160	30	32	99

SECONDARY FITTINGS: PLAIN

90° Elbow Secondary

Description	Product Code	Ø (mm)	Pack (m)	Weight/ unit/(kg)	Weight/ unit (lbs)
90° Elbow 75mm Secondary	03.75(SC)	75	40	0.12	0.26
90° Elbow 110mm Secondary	03.110(SC)	110	20	0.27	0.60
90° Elbow 160mm Secondary	03.160(SC)	160	5	0.95	2.09

Material:	PE
Secondary Pressure Rating (bar/Psi):	4 / 58
Secondary Vacuum Rating (-bar/"Hg):	-0.6 / -17.8
Temperature Rating (°C):	-40 to 50 °C



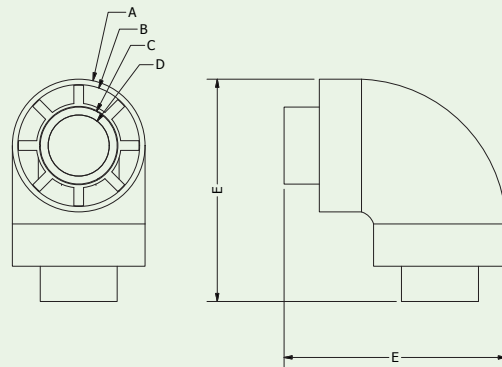
Size Chart

Product Code	A	B	C
03.75(SC)	110	75	69
03.110(SC)	155	110	101
03.160(SC)	264	160	152

90° Elbow Secondary Contained

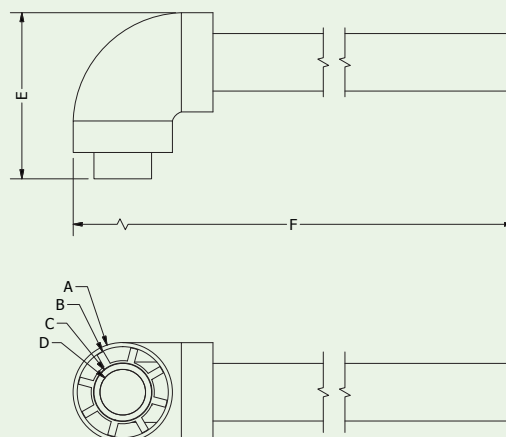
Description	Product Code	Ø (mm)	Pack (m)	Weight/ unit/(kg)	Weight/ unit (lbs)
90° Elbow Secondary Contained 63mm	03.110.63(SC)	110/63	15	0.64	1.41
90° Elbow Secondary Contained 63mm-Long	03.110.63(SC).L	110/63	1	1.36	3.00

Material:	PE
Secondary Pressure Rating (bar/Psi):	4 / 58
Secondary Vacuum Rating (-bar/"Hg):	-0.6 / -17.8
Temperature Rating (°C):	-40 to 50 °C



Size Chart

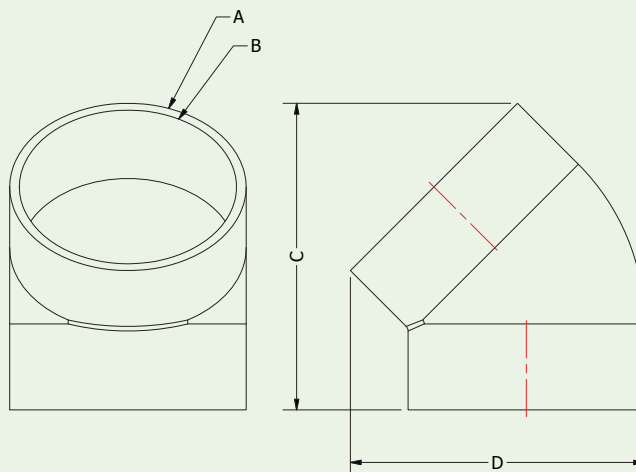
Product Code	A	B	C	D	E	F
03.110.63(SC)	110	101	63	51	184	-
03.110.63(SC).L	110	101	63	51	184	854



SECONDARY FITTINGS: PLAIN

45° Elbow Secondary

Description	Product Code	Ø (mm)	Pack (m)	Weight/ unit/(kg)	Weight/ unit (lbs)
45° Elbow 110mm Secondary	04.110(SC)	110	25	0.171	0.38
45° Elbow 160mm Secondary	04.160(SC)	160	5	0.7	1.54



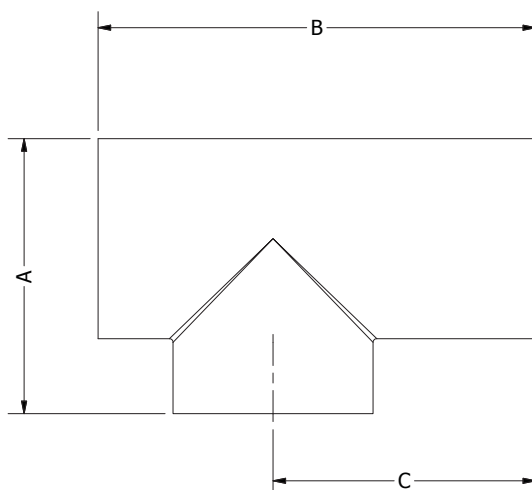
Material:	PE
Secondary Pressure Rating (bar/Psi):	4 / 58
Secondary Vacuum Rating (-bar/"Hg):	-0.6 / -17.8
Temperature Rating (°C):	-40 to 50 °C

Size Chart

Product Code	A	B	C	D
04.110(SC)	110	101	143	138
04.160(SC)	160	147	233	209

Equal Tee Secondary

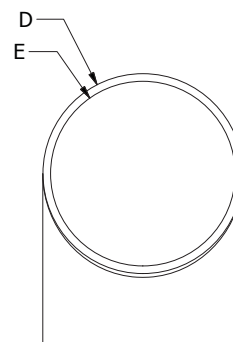
Description	Product Code	Ø (mm)	Pack (m)	Weight/ unit/(kg)	Weight/ unit (lbs)
Equal Tee 75mm Secondary	08.75(SC)	75	20	0.14	0.31
Equal Tee 110mm Secondary	08.110(SC)	110	15	0.376	0.83
Equal Tee 160mm Secondary	08.160(SC)	160	5	1.16	2.56



Material:	PE
Secondary Pressure Rating (bar/Psi):	4 / 58
Secondary Vacuum Rating (-bar/"Hg):	-0.6 / -17.8
Temperature Rating (°C):	-40 to 50 °C

Size Chart

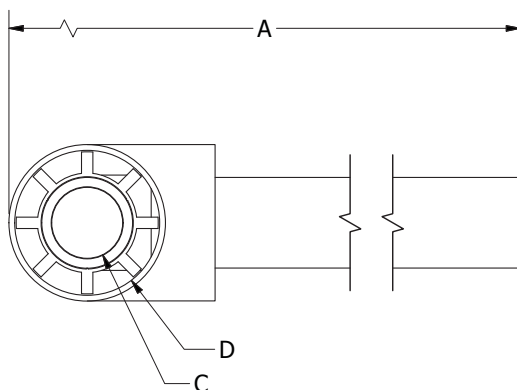
Product Code	A	B	C	D	E
08.75(SC)	108	170	100	75	69
08.110(SC)	145	225	135	110	101
08.160(SC)	220	350	210	160	147



SECONDARY FITTINGS: PLAIN

Tee Secondary Contained

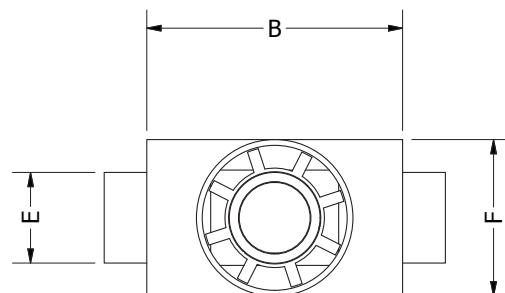
Description	Product Code	Primary Ø (mm)	Pack (m)	Weight/ unit/(kg)	Weight/ unit (lbs)
Tee Secondary Contained 63mm	08.110.63(SC).L	110/63	1	1.55	3.42



Material:	PE
Secondary Pressure Rating (bar/Psi):	4 / 58
Secondary Vacuum Rating (-bar/"Hg):	-0.6 / -17.8
Temperature Rating (°C):	-40 to 50 °C

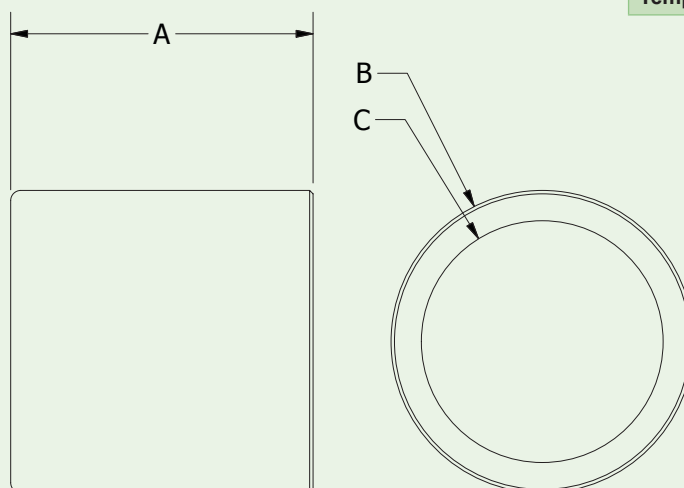
Size Chart

Product Code	A	B	C	D	E	F
08.110.63(SC).L	845	180	50	101	63	110



End Cap Secondary

Description	Product Code	Ø (mm)	Pack (m)	Weight/ unit/(kg)	Weight/ unit (lbs)
End Cap 125mm Secondary	10.125(SC)	125	10	0.14	0.31



Material:	PE
Secondary Pressure Rating (bar/Psi):	4 / 58
Secondary Vacuum Rating (-bar/"Hg):	-0.6 / -17.8
Temperature Rating (°C):	-40 to 50 °C

Size Chart

Product Code	A	B	C
10.125(SC)	48	125	115

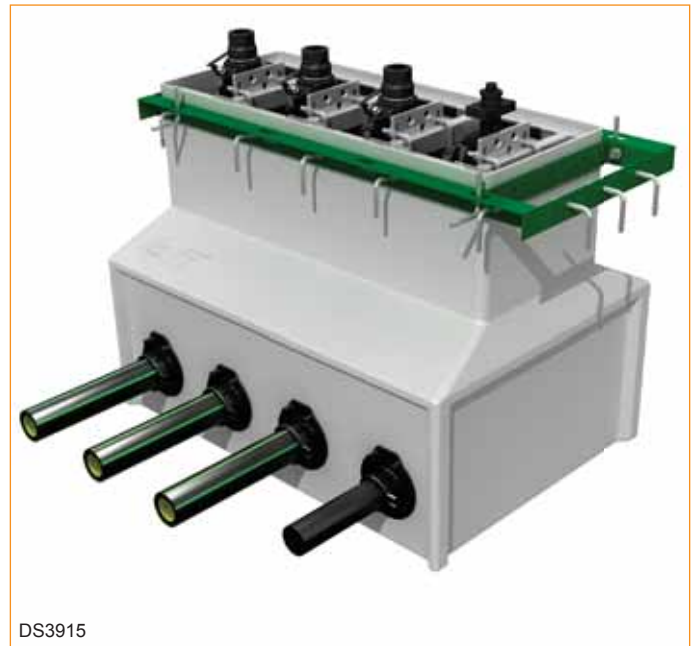
Dispenser Sump Range

Our dispenser sumps, with patented welded entry boot and double wall piping systems, give you what you need - years of worry free, maintenance free performance.

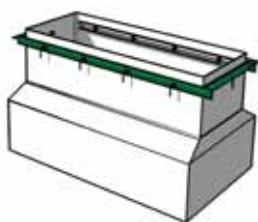
All our sumps are manufactured from polyethylene with a steel painted frame and galvanised steel stabiliser bar and they are compatible with the UPP electrofusion entry system.

Features & Benefits

- No Leak Paths - one system when using UPP Electrofusion(EIF) Entry Seals.
- Conduit can enter the dispenser through mounting frame without penetrating the sump wall.
- Rigid and thick PE body with reinforced contoured structure and integrated rain lip.
- Large clear entry seal face.
- Neck can be trimmed to adjust sump burial depth.
- Stabilizer bars feature pre-drilled shear valve mounting plate and spring channel nuts.



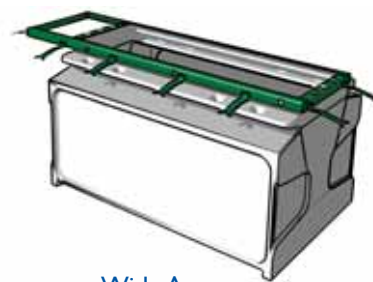
UPP DISPENSER SUMP COMPATIBILITY CHART



Standard
DS2111, DS4111, DS3017, DS4417



Ribbed
DS3617 ENCORE, DS3915



Wide Access
DS3420, DS4620, DS3818, DS5518

Model		UPP Sump	Frame	Stabiliser Bar	Page
Bennet					
3K Series	P0783, P0784, P0785, P0786, P0831, P0982, P0828, P0829, P0830, P0951	DS2111	Included	DS-SB11	44
Compaq					
Legend	MD6	DS4111	Included	DS-SB11	44
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	DS4111	Included	DS-SB11	44
	3/V388D, 3/V389D, 3/V580D, 3/V585D, 3/V387D, 1/V580D, 1/V585D, V580D, V585D	DS2711	Included	DS-SBA-11	*
Ovation	R11, R13, B12/R22, B23	DS3915	Included	DS-SB-15.1	46
Global Star	H Frame	DS4620	DS4620-F-WGHF	DS-SBA-20	42
	CXX-11 1 product, CXX-21 2 product, CXX-31 3 product	DS3818	DS3818-F-CX31	DS-SBA-18	42
	CXX-44 4 product	DS5518	DS5518-F-CX44	DS-SBA-18	42
3/G Prefix	3/G2221D/GHK, 3/G2227D/GJKR, 3/G3387D, 3/G3388, 3/G3389D, 3/G3384D	DS3017	Not Required	DS-SB17	
	3/G3397D, 3/G3399D, 3G/3390D, 3/G3490D, 3/G3498D	DS4417	Not Required	DS-SB17	
Gilbarco					
Encore	550/500, 500S	DS3617	Included	DS-SB17.1	46
SK700	2/1/2 - 2 hose	DS3420	DS3420-F-SK72	DS-SBA-20	42
	4/2/4 - 4 hose	DS3420	DS3420-F-SK74	DS-SBA-20	42
	6/3/6 - 6 hose	DS4620	DS4620-F-SK76	DS-SBA-20	42
	8/4/8 - 8 hose	DS4620	DS4620-F-SK78	DS-SBA-20	42
Advantage	1 and 2 Grade	DS3017	Not Required	DS-SB17	
	3 and 4 Grade	DS4417	Not Required	DS-SB17	
Neotec					
M5225	Spyrides	DS4111	Included	DS-SB11	44
Somo					
Multi Ex	4S, 4S2H, 6S	DS4111	Included	DS-SB11	44
Tatsuno					
Neo Sunny	GDB-GSB 4 product models, GDB-GSB 3 product models,GDN-GSB 2 product models	DS4111	Included	DS-SB11	44
Sunny - X	3 product	DS4111	Included	DS-SB11	44
Multi - X	3 product	DS4111	Included	DS-SB11	44
Tokheim					
Quantium	410T	DS4620	DS4620-F-E510*	DS-SBA-20	42
	500T 1 and 2 product	DS3420	DS3420-F-Q5T3	DS-SBA-20	42
	500T 3 and 4 product	DS4620	DS4620-F-Q5T4	DS-SBA-20	42

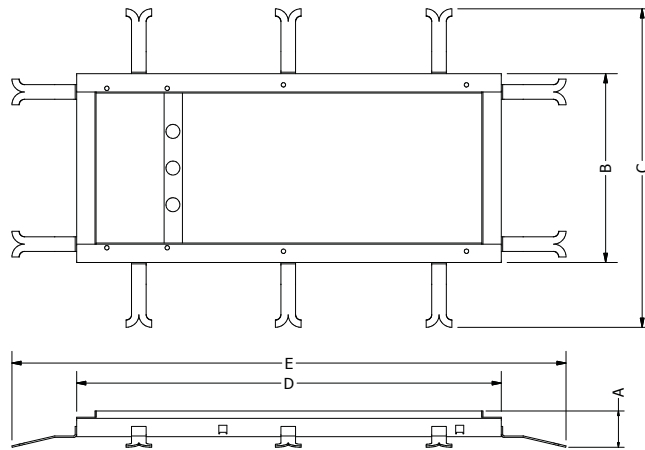
* Available on request

CONTAINMENT SYSTEMS: WIDE ACCESS DISPENSER FRAMES

Mounting Frame For Wide Access Dispenser Sumps

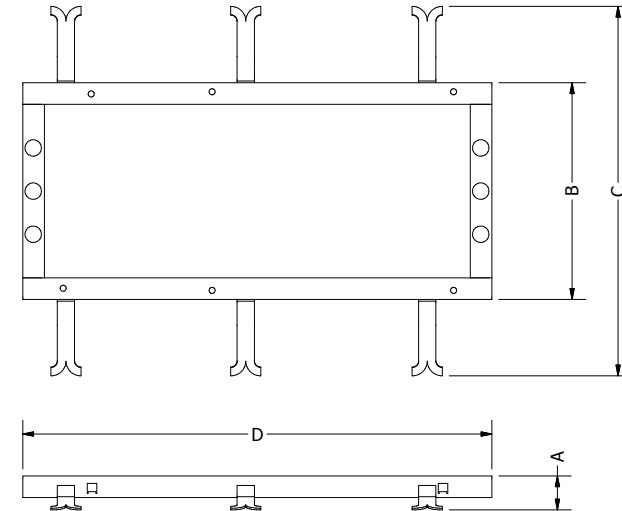
Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Neck Opening
DS3420 Mounting Frame for Gilbarco SK700 2 hose	DS3420-F-SK72	1	7.3	16.1	34" x 20"
DS3420 Mounting Frame for Gilbarco SK700 4 hose	DS3420-F-SK74	1	8	17.6	34" x 20"
DS4620 Mounting Frame for Gilbarco SK700 6 hose	DS4620-F-SK76	1	9.3	20.5	46" x 20"
DS4620 Mounting Frame for Gilbarco SK700m 8 hose	DS4620-F-SK78	1	11	24.3	46" x 20"
DS4620 Mounting Frame Wayne Global H-Frame 8 hose	DS4620-F-WGHF	1	8.7	19.2	46" x 20"
DS3818 Mounting Frame for Wayne CXX11, CXX21 & CXX31	DS3818-F-CX31	1	7	15.4	38" x 18"
DS5518 Mounting Frame for Wayne CXX44	DS5518-F-CX44	1	11	24.3	55" x 18"

Material:	Steel - painted	Colour:	Green
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Size Chart

Product Code	A	B	C	D	E
DS3420-F-SK72	99	515	867	995	1347
DS3420-F-SK74	99	515	867	1160	1512
DS4620-F-SK76	99	515	867	1460	1812
DS4620-F-SK78	99	515	867	1875	2227



Size Chart

Product Code	A	B	C	D
DS4620-F-WGHF	99	515	867	1270
DS3818-F-CX31	79	502	854	1088
DS5518-F-CX44	79	502	854	1772

CONTAINMENT SYSTEMS: WIDE ACCESS DISPENSER SUMP

PetroTite Wide Access Dispenser Sump

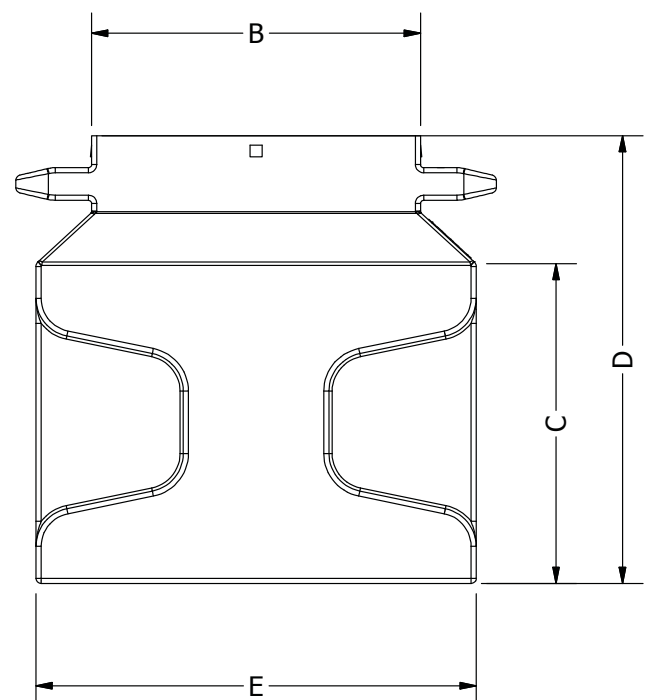
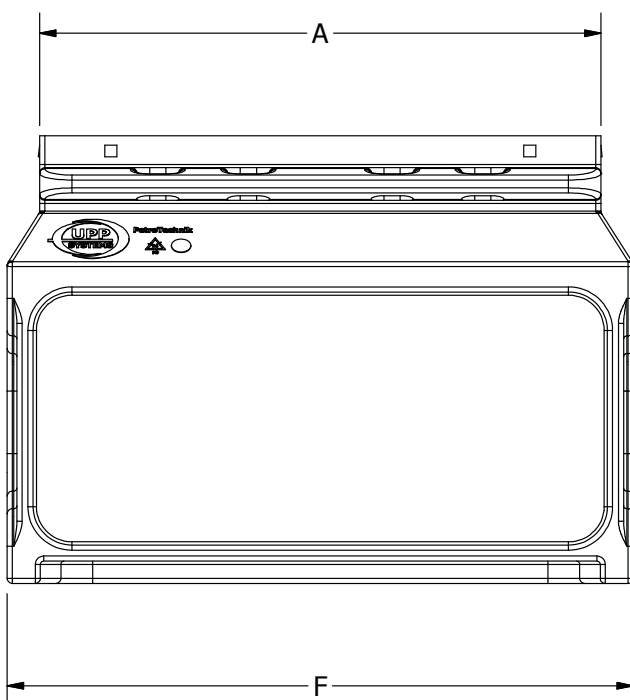
Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)
PetroTite PE Dispenser Sump 34" x 20"	DS3420	1	27.7	61.1
PetroTite PE Dispenser Sump 46" x 20"	DS4620	1	32.6	71.9
PetroTite PE Dispenser Sump 38" x 18"	DS3818	1	34.4	75.8
PetroTite PE Dispenser Sump 55" x 18"	DS5518	1	42.4	93.5

Material:	LLDPE/Steel galvanised strut	Mounting Frame:	Seperate Frame Required: See page 41.
Colour:	White		



Size Chart

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

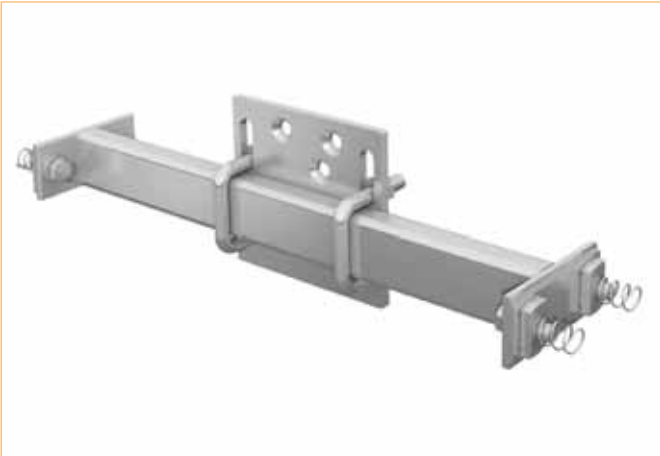


CONTAINMENT SYSTEMS: WIDE ACCESS DISPENSER SUMP

Stabiliser Bar For PetroTite Wide Access Dispenser Sumps

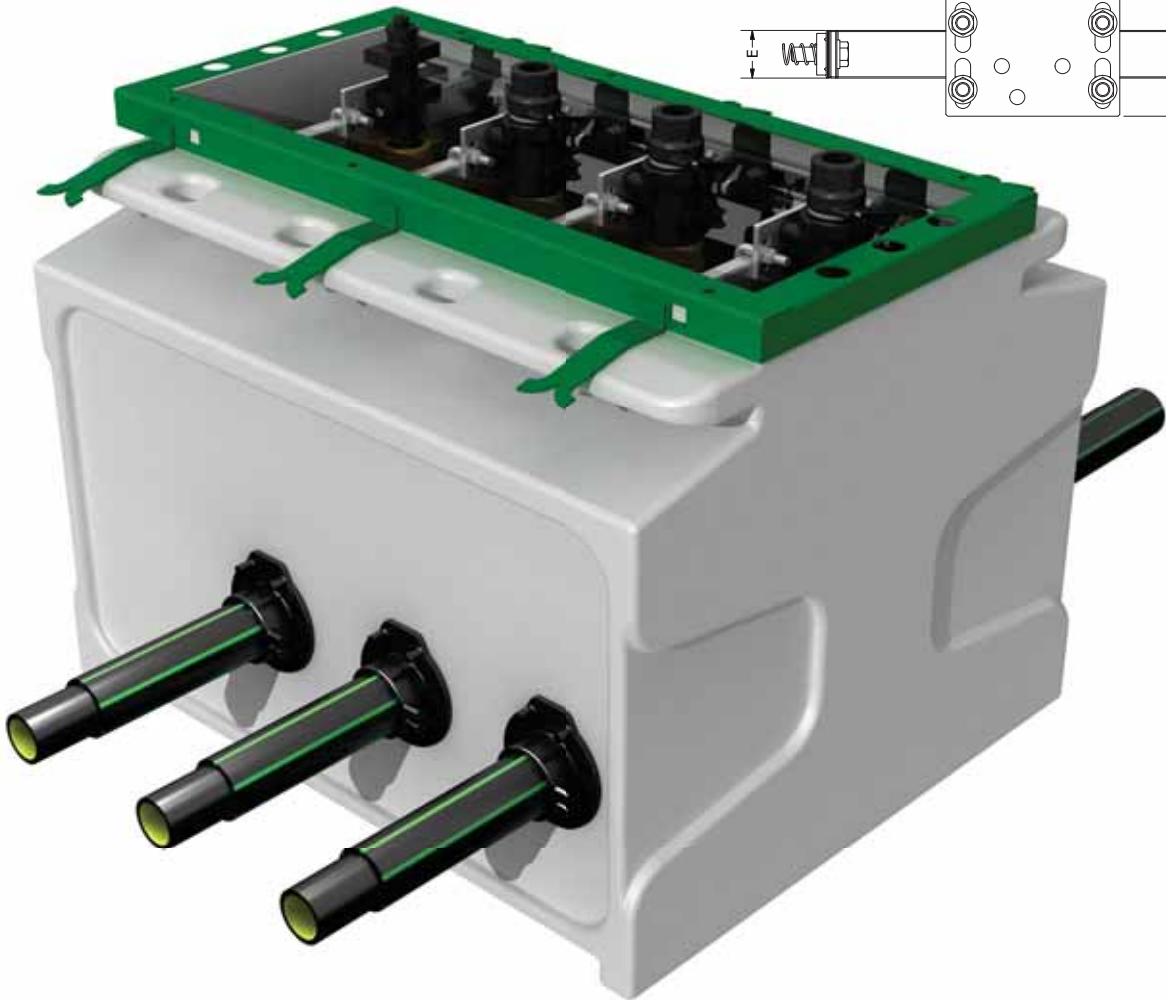
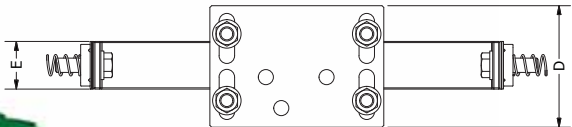
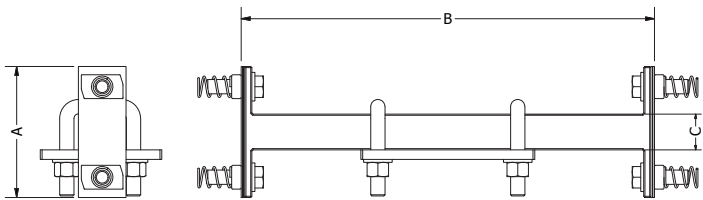
Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Overall Base Dimensions
Stabiliser Bar for DS4620 & DS3420	DS-SBA-20	1	4	8.8	20"
Stabiliser Bar for DS5518 & DS3818	DS-SBA-18	1	4	8.8	18"

Material: Steel galvanised strut



Size Chart

Product Code	A	B	C	D	E
DS-SBA-20	110	490	25	140	50
DS-SBA-18	110	477	25	140	50

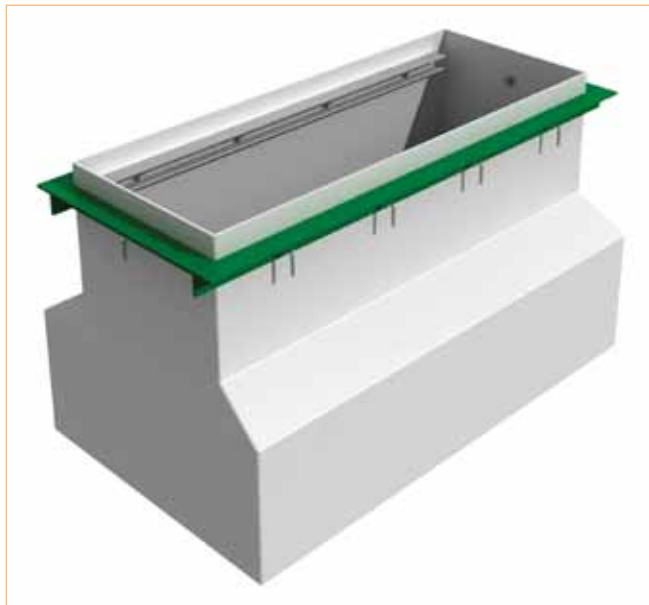


CONTAINMENT SYSTEMS: PETROTITE DISPENSER SUMP

PetroTite Dispenser Sump

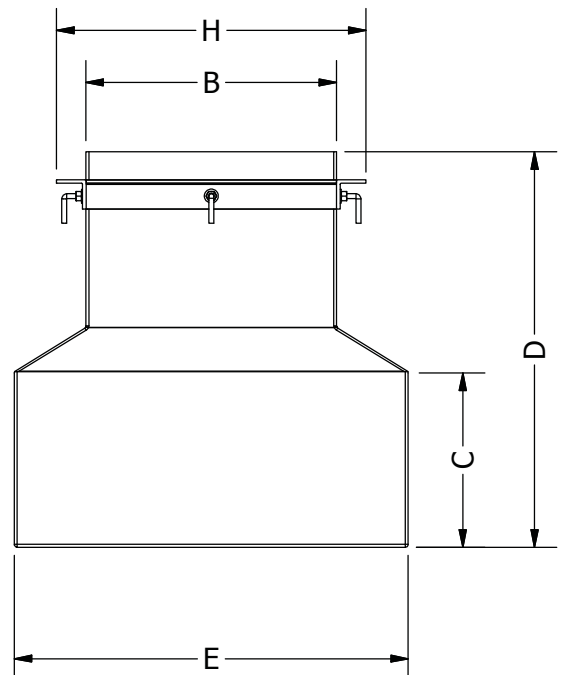
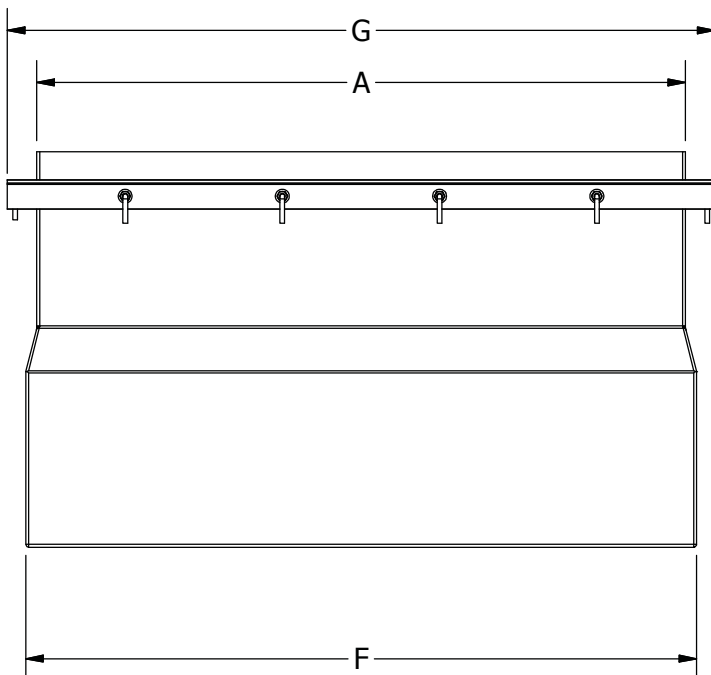
Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)
PetroTite PE Dispenser Sump 21" x 11"	DS2111	1	17.4	38.4
PetroTite PE Dispenser Sump 41" x 11"	DS4111	1	28	61.7
PetroTite PE Dispenser Sump 30" x 17"	DS3017	1	24	52.9
PetroTite PE Dispenser Sump 44" x 17"	DS4417	1	31.2	68.8

Material:	LLDPE/Steel galvanised strut	Mounting Frame:	Complete with Mounting Frame
Colour:	White/Green		



Size Chart

Product Code	A	B	C	D	E	F	G	H
DS2111	546	279	301	684	533	584	648	381
DS4111	1041	279	301	684	533	1079	1143	381
DS3017	762	432	301	684	679	800	864	533
DS4417	1118	432	301	684	679	1156	1219	533

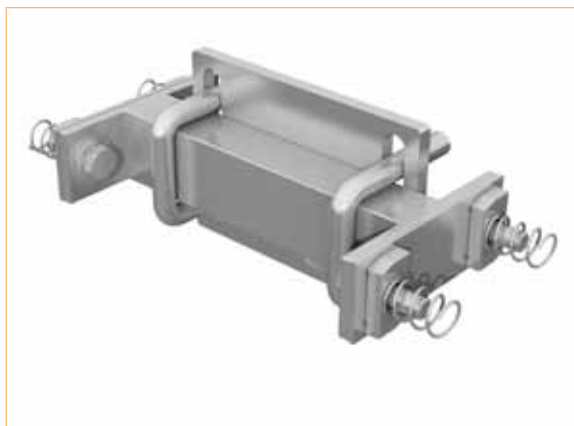


CONTAINMENT SYSTEMS: PETRO TITE STABILISER BAR

Stabiliser Bar For PetroTite Dispenser Sumps

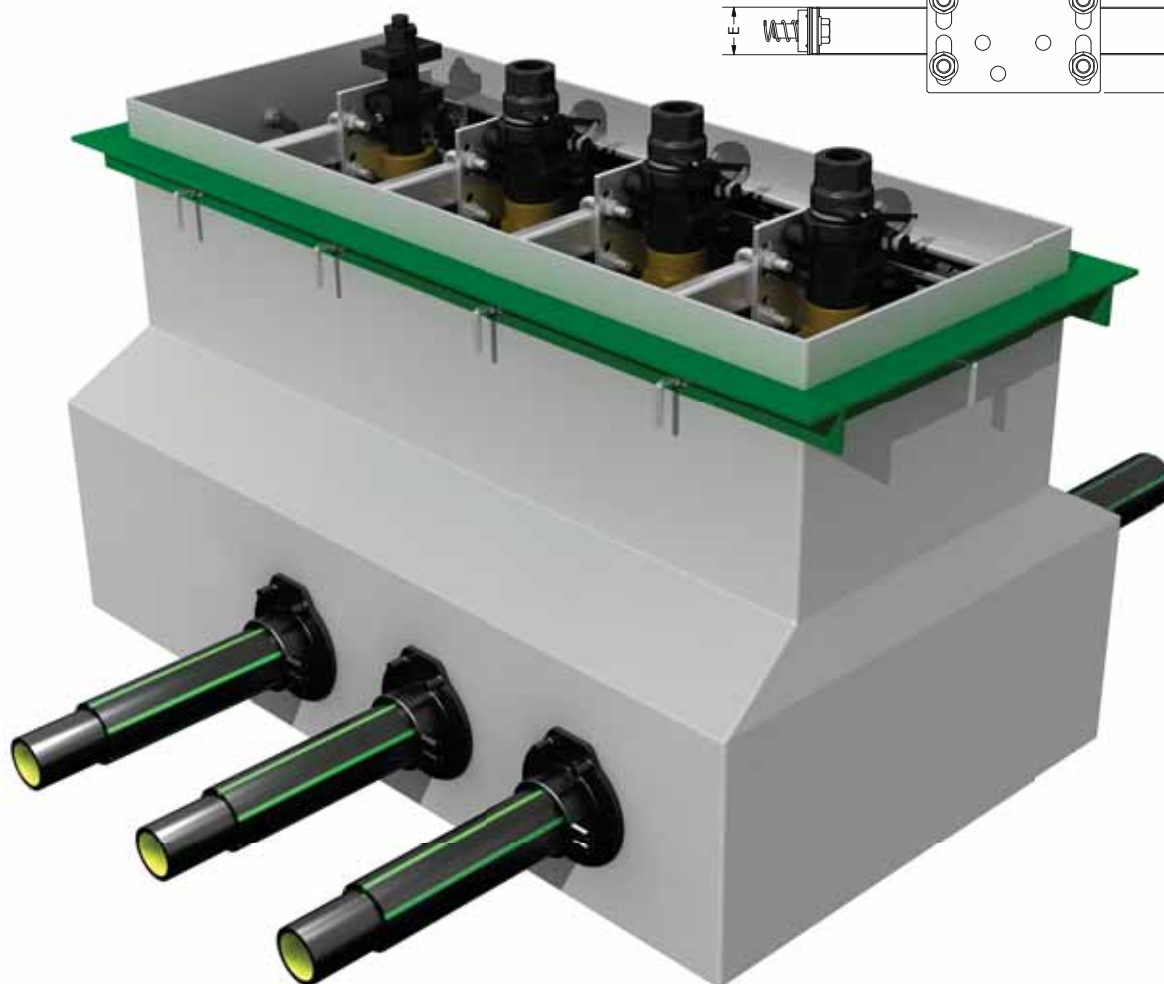
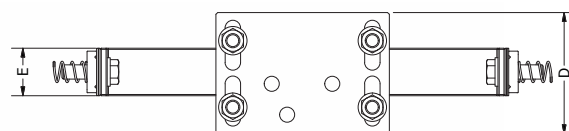
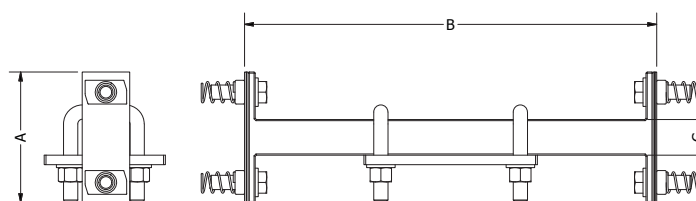
Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Overall Base Dimensions
Stabiliser Bar for DS4111 & DS2111	DS-SB11	1	2.57	5.7	11"
Stabiliser Bar for DS4417 & DS3017	DS-SB17	1	2.93	6.5	17"

Material: Steel galvanised strut



Size Chart

Product Code	A	B	C	D	E
DS-SB11	110	191	30	102	40
DS-SB17	110	341	30	102	40

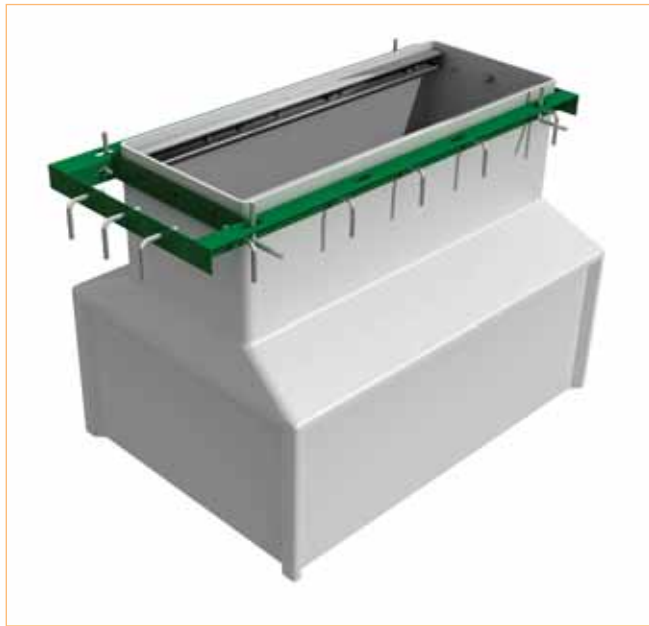


CONTAINMENT SYSTEMS: ENCORE & OVATION SUMPS

Petro Tite Ribbed Dispenser Sump - Encore & Ovation

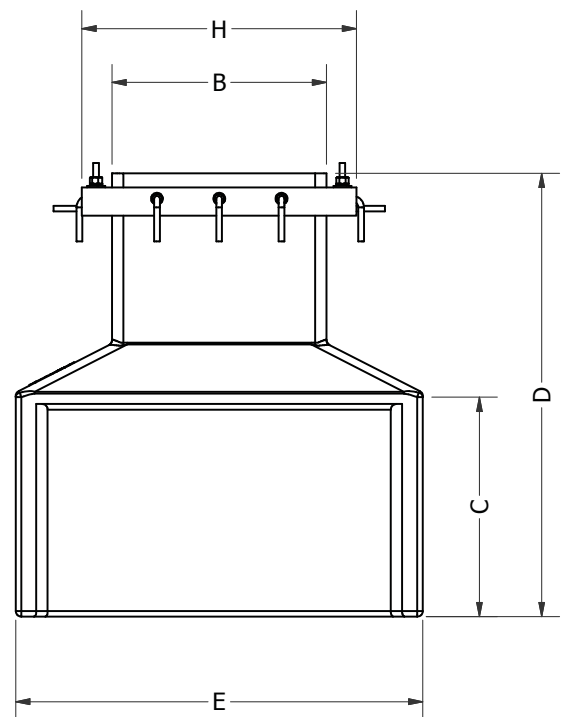
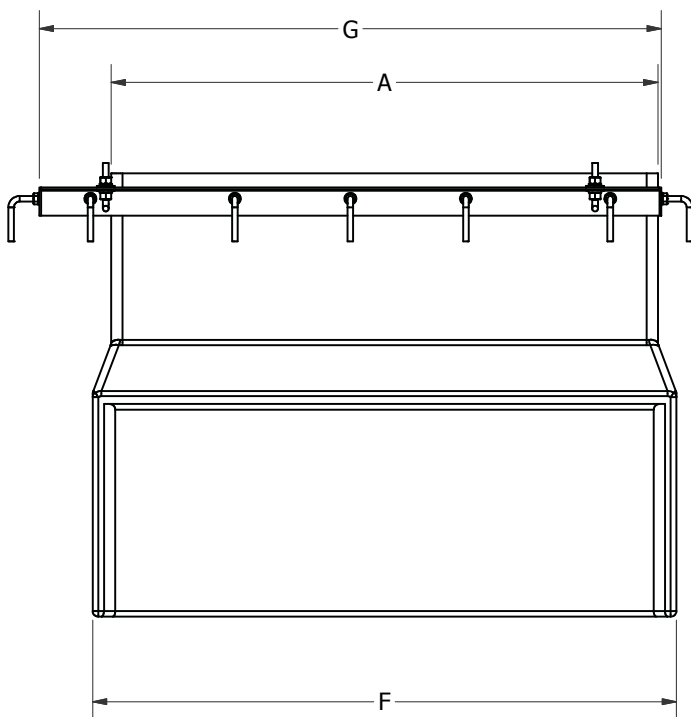
Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)
PetroTite PE Dispenser Sump 36" x 17"	DS3617 ENCORE	1	35.9	79.1
PetroTite PE Dispenser Sump 39" x 15"	DS3915	1	24.5	54.0

Material:	LLDPE/Steel galvanised strut	Mounting Frame:	Complete with Mounting Frame
Colour:	White/Green		



Size Chart

Product Code	A	B	C	D	E	F	G	H
DS3617 ENCORE	930	449	389	782	719	996	1030	549
DS3915	966	379	389	782	719	1031	1098	485

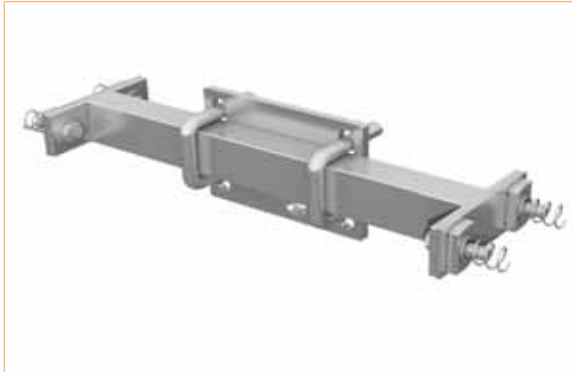


CONTAINMENT SYSTEMS: ENCORE & OVATION SUMPS

Stabiliser Bars for Ribbed Dispenser Sumps

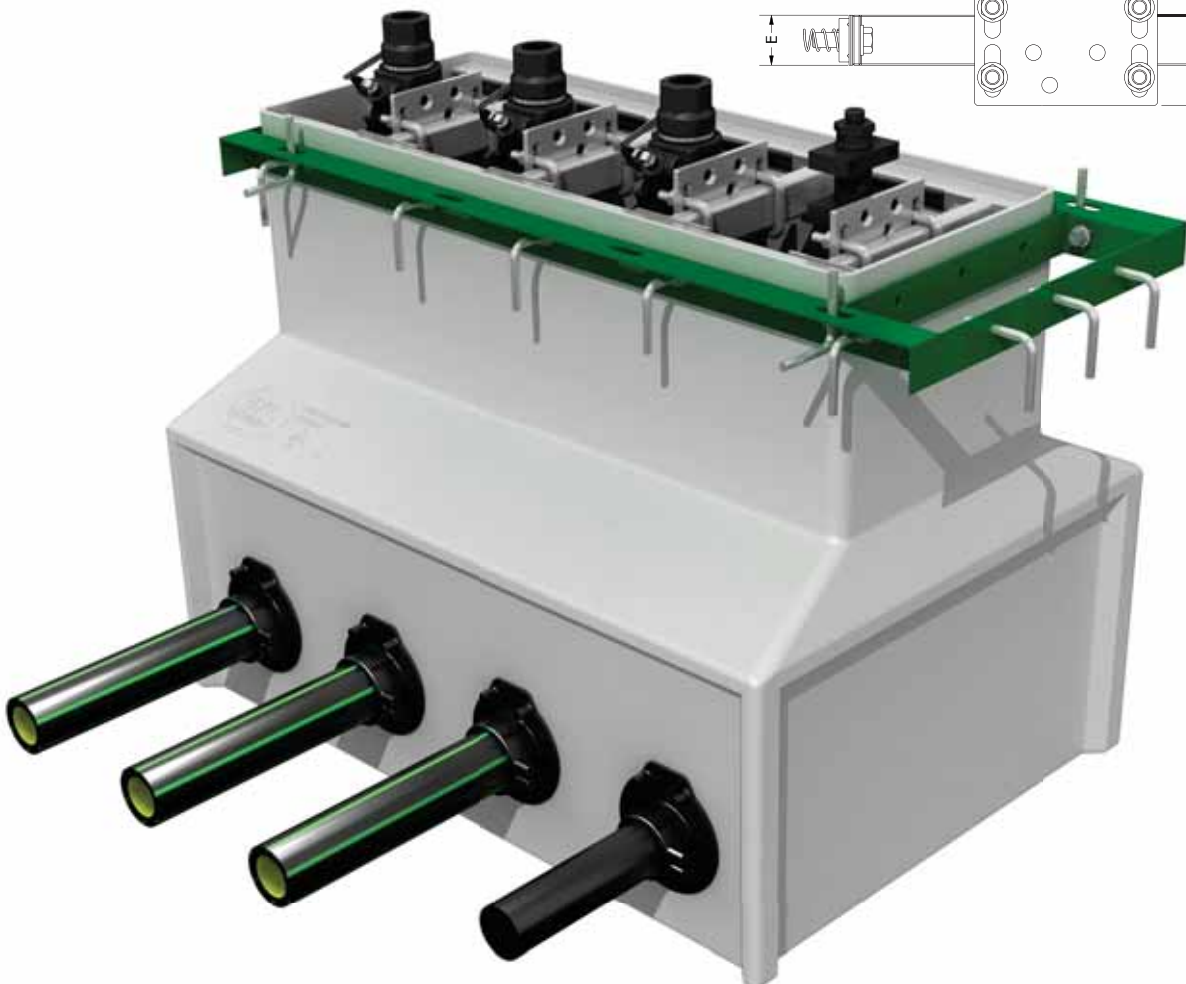
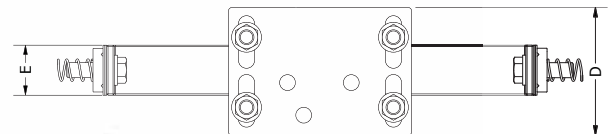
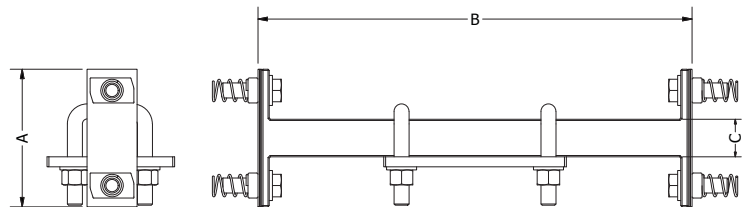
Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Overall Base Dimensions
Stabiliser Bar for DS3617	DS-SB17.1 ENCORE KIT	1	3.3	7.3	17"
Stabiliser Bar for DS3915	DS-SB15.1	1	3.1	6.8	15"

Material: Steel galvanised strut



Size Chart

Product Code	A	B	C	D	E
DS-SB17.1 ENCORE KIT	110	354	30	102	40
DS-SB15.1	110	319	25	102	50



Access Cover Range

PetroTechnik and UPP systems bring another innovative product to the Fuel Retail market with the introduction of the PetroTite® PowerLift patented cast iron Access Covers and the PCC90 Composite Access Cover.

These exciting new Access Covers have been designed for use on service station forecourts and refuelling stations where frequent access and heavy traffic are paramount to the product design criteria. The PetroTechnik Access Covers continue this trend of product superiority by combining the strength and durability of cast iron with the ease of handling lightweight composite covers.

The clever spring loaded hinge mechanism allows the covers to be opened and closed with ease using a lightweight handle and they stay open at any angle without the need for locking mechanisms or stays. The covers are therefore easily opened and closed by operators of either gender without the risk of injury that exists with conventional cast iron covers.

Features & Benefits

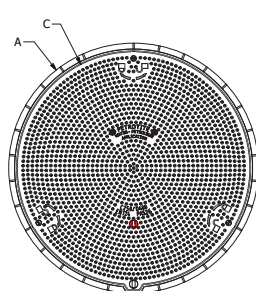
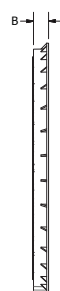
- Extremely hard wearing and durable, they will not spin out, buckle or loose shape due to pressure forces from vehicles and are highly resistant to chemical corrosion.
- BS EN 124 to Class D400 structural integrity as tested by Lloyds British Testing plc.
- Lockable and indeed must be locked to remain fully closed - this increases on site security and safety, especially in today's world where terrorism and theft is a real concern for all.
- When locked the covers become completely watertight thanks to a special chemically resistant neoprene sealing gasket and internal drainage channel.
- Due to the nature of cast iron the covers are resistant to chemical corrosion from petroleum and alcohols.

Composite Access Covers

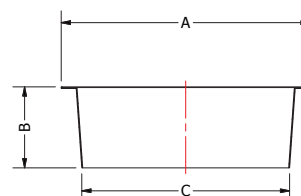
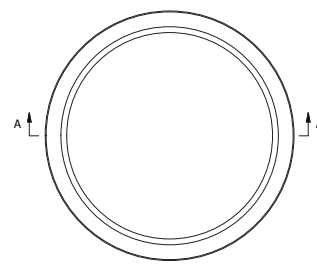
Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Clear Opening	Overall Base Dimensions (mm)	Max load rating (EN124 PAS26)	Material
Composite Access Cover 900mm	PCC90	1	66.5	146.6	900mm	1080	D400	Composite
Fibreglass Skirt for PCC90	PCC90-SK	1	6.36	14.0	900mm	1100mm max.	n/a	Fibreglass
Composite Cover Lifting Handle	PCC-H	1	6.5	14.3	n/a	n/a	n/a	Galvanised Steel
Composite Cover Seal	PCC-J	1	n/a	n/a	n/a	n/a	n/a	EPDM



PCC90



PCC90-SK



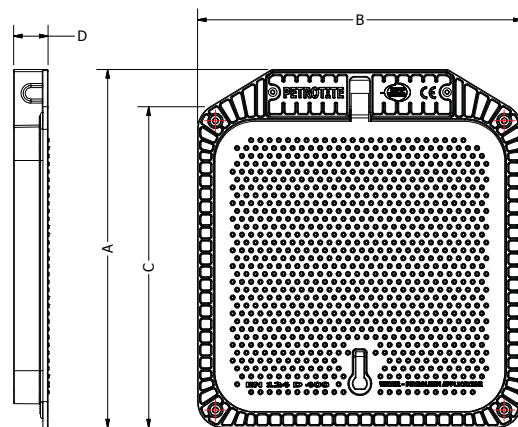
Size Chart

Product Code	A	B	C
PCC90	1080	65	1008
PCC90-SK	1088	413	900

CONTAINMENT SYSTEMS: ACCESS COVERS

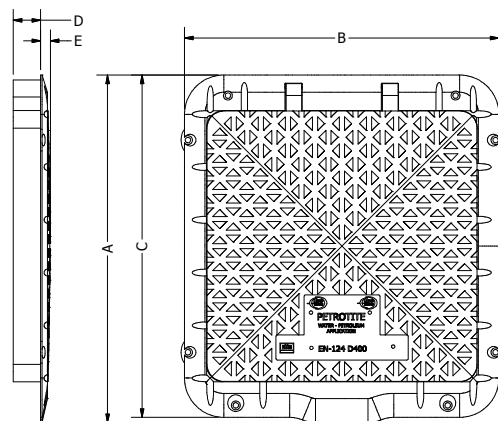
Cast Iron Access Covers

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Clear Opening	Overall Base Dimensions (mm)	Max load rating (EN124)	Material
Power-lift Flat Cast Iron Access Cover 760x760mm D400	PC76-D400	1	120	264.6	760mm x 760mm	1047 x 950	D400	Cast Iron
Raised Cast Iron Access Cover 760x760mm D400	PC76-1	1	121	266.8	760mm x 760mm	1020 x 920	D400	Cast Iron
Power-lift Raised Cast Iron Access Cover 770x770mm	PC77	1	130	286.6	770mm x 770mm	1067 x 950	C250	Cast Iron
Handle for PC 76/77/95	PC76/H	1	1.06	2.3	n/a	n/a	n/a	Cast Iron
Gasket for PC76 Access Cover	PC76/J	1	0.3	0.7	n/a	n/a	n/a	Neoprene



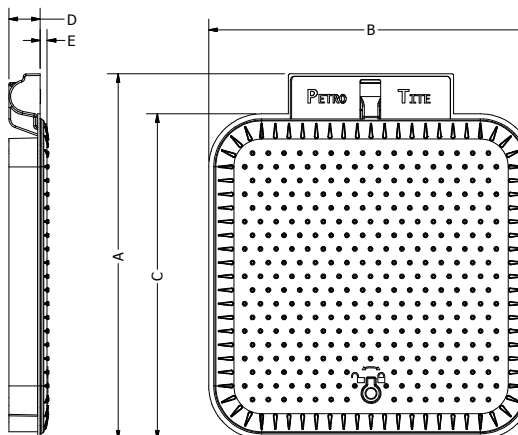
Size Chart

Product Code	A	B	C	D
PC76-D400	1047	950	930	101



Size Chart

Product Code	A	B	C	D	E
PC76-1	1020	920	1000	80	29



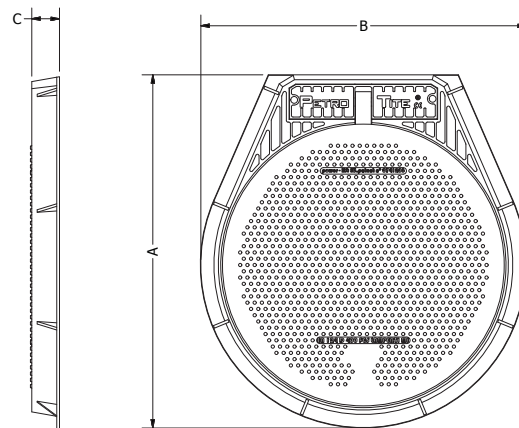
Size Chart

Product Code	A	B	C	D	E
PC77	1067	950	950	92	20

CONTAINMENT SYSTEMS: ACCESS COVERS

Cast Iron Access Covers

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Clear Opening	Overall Base Dimensions (mm)	Max load rating (EN124)	Material
Power-lift Flat Cast Iron Access Cover Ø 950mm D400	PC95-D400	1	200	441	Ø 950mm	1300 x 1200	D400	Cast Iron

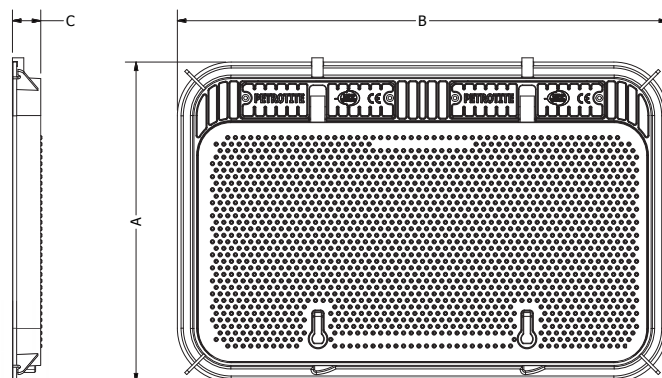


Size Chart

Product Code	A	B	C
PC95-D400	1300	1200	101

Cast Iron Access Covers

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Clear Opening	Overall Base Dimensions (mm)	Max load rating (EN124)	Material
UPP Cast Iron Access Cover 1500x760mm D400	PC-150-76-D400	1	264	582	1502mm x 762mm	1732 x 1130	D400	Cast Iron



Size Chart

Product Code	A	B	C
PC-150-76-D400	1130	1732	101

Chambers Range

Dramatically reduced leak paths

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.

Reduced installation time

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.

No leak points

Once welded and cooled the base and riser 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.

Easy Installation

The base of the chamber is provided as either Deep or Shallow, and both will allow for a very easy installation of pipework before the riser is fused into place.

Features & Benefits

- **Riser electrofuses to chamber base - no bolts, no leaks.**
Quick installation with no bolt holes.
- **Vacuum testable.**
Specific testing at critical points ensures a leak-proof installation.
- **Watertight chamber.**
Tank access remains dry and protected.
- **Watertight lid - vacuum testable.**
Chamber stays dry in high water table areas.
- **Compatible with all UPP electrofusion Entry Seals.**
Fully welded UPP system, no mechanical joints, no leaks.
- **Two-piece chamber.**
For simplified pipe installation and easier transportation.

LA-002-001



OCH-1400-D



CONTAINMENT SYSTEMS: PETROTITE SQUARE CHAMBERS

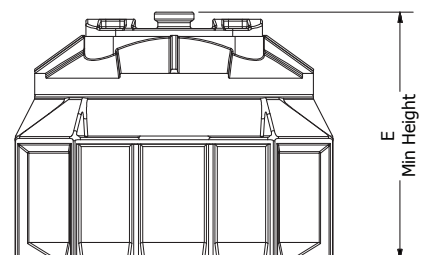
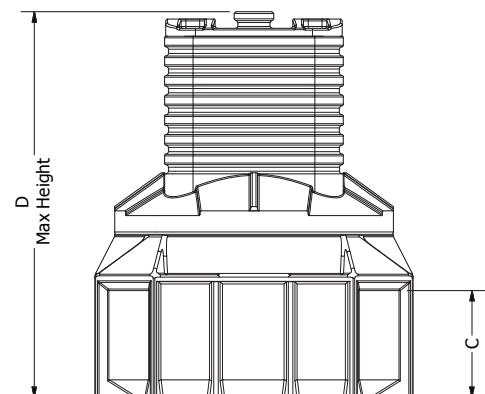
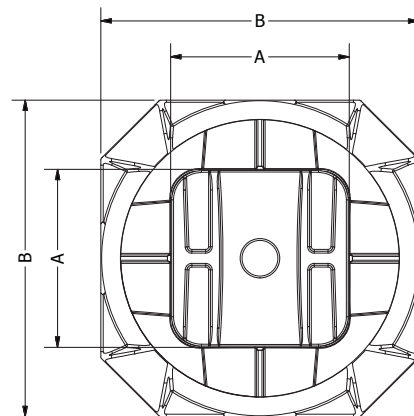
PetroTite PE Chamber & Gasket Kit For DC4830SB

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Neck Opening	Overall Height
PetroTite PE Chamber with Square Riser	DC4830SB	1	78	172.0	720mm x 720mm	max = 1668 min = 1072
Gasket Kit for DC4830SB	DC4830SBG	1	3.04	6.7	n/a	n/a



Size Chart

Product Code	A	B	C	D	E
DC4830SB	770	1370	460	1668	1072



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")

Base suits square or round containment collars on tank:
Square \square : 970 mm max (38.2")
Round \varnothing : 1150 mm max (45.3")

CONTAINMENT SYSTEMS: STANDARD CHAMBERS

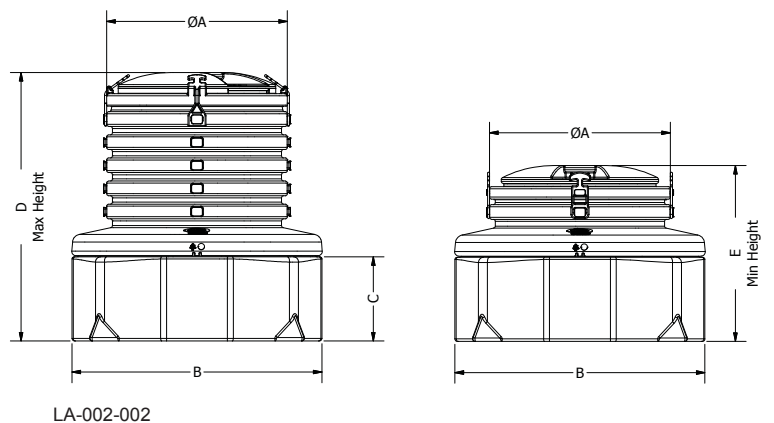
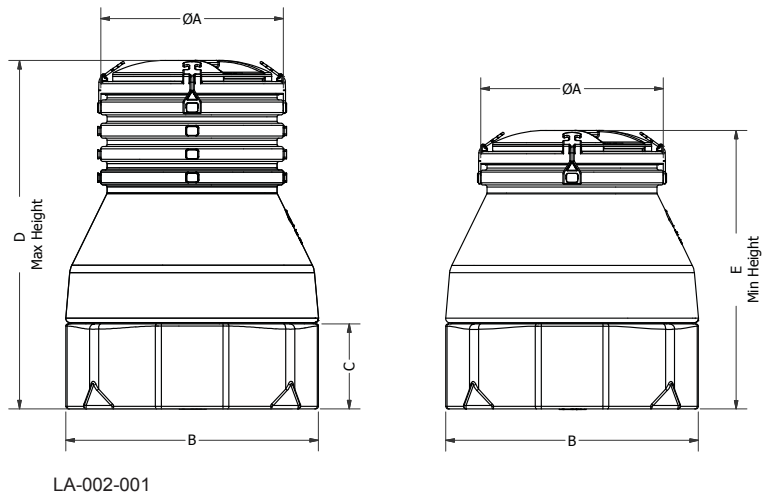
PetroTite PE Standard Chamber

Description	Product Code	Size (mm)	Pack Size	Weight (kg)	Weight (lbs)	Neck Opening	Overall Height (mm)
Deep Burial Tank Chamber with Watertight lid	LA-002-001	1641 x 1176	1	75	165.3	780mm	max = 1641 min = 1310
Shallow Burial Tank Chamber with Watertight Lid	LA-002-002	1279 x 1176	1	60	132.3	780mm	Max = 1279 min = 831
PE Chamber Harness Assembly	OCH-1400-H	n/a	1	2.23	4.9	n/a	n/a



Size Chart

Product Code	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")

Full set code: LA-002-001 / LA-002-002

40' container loading:

10 x 2 x 2 = 40 sets

Welding lead code:

EW8-C7A

Water-tight lid only code:

LA-007-001

Base only code:

LA-004-001

Deep Riser: LA-005-001

Shallow Riser: LA-006-002

Deep Riser only code:

LA-005-001

Shallow Riser only code:

LA-006-002

Set Shipping weight (approx):

75Kg (165.3 lbs)

Set Shipping weight (approx):

60Kg (132 lbs)

Set Shipping dimensions:

1176mm x 1176mm x 1121mm
(46.3" x 46.3" x 44.1")

Set Shipping dimensions:

1176mm x 1176mm x 875mm
(46.3" x 46.3" x 34.5")

CONTAINMENT SYSTEMS: OPTIMUM CHAMBERS

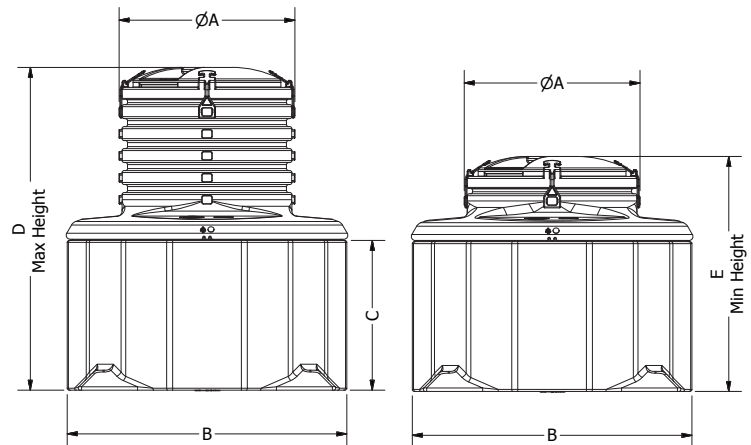
Optimum Chamber with Small Bore Riser

Description	Product Code	Size (mm)	Pack Size	Weight (kg)	Weight (lbs)	Neck Opening	Overall Height (mm)
Deep Burial Tank Chamber with Watertight Lid	OCH-1400-DS	1400 x 1616	1	86	189	780mm	max = 1616 min = 1176
Shallow Burial Tank Chamber with Watertight Lid	OCH-1400-SS	1400 x 1266	1	80	176	780mm	max = 1266 min = 826
PE Chamber Harness Assembly	OCH-1400-H	n/a	1	2.23	4.9	n/a	n/a

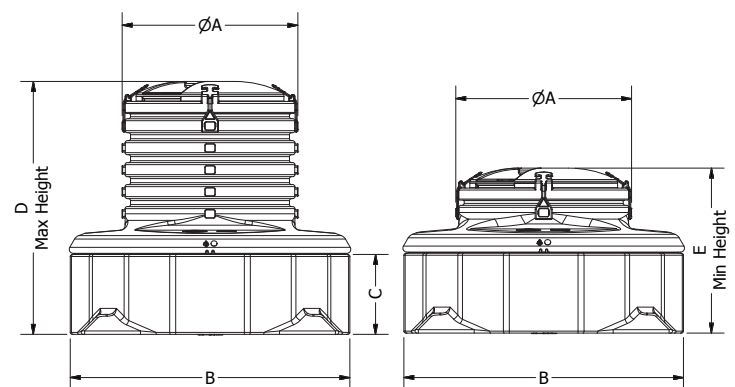


Size Chart

Product Code	A	B	C	D	E
OCH-1400-DS	880	1400	750	1616	1176
OCH-1400-SS	880	1400	400	1266	826



OCH-1400-DS



OCH-1400-SS

Full set code: OCH-1400-DS / OCH-1400-SS

40' container loading:

8 x 2 = 16 sets

Welding lead code:

EW8-C7A

Water-tight lid only code:

LA-007-001

Riser only code:

OCH-1400-RS

Deep Base: OCH-1400-BD Shallow Base: OCH-1400-BS

Deep Base only code:

OCH-1400-BD

Set Shipping weight (approx):

86Kg (189 lbs)

Set Shipping dimensions:

1410mm x 1410mm x 1080mm
(55.5" x 55.5" x 42.5")

Shallow Base only code:

OCH-1400-BS

Set Shipping weight (approx):

80Kg (176 lbs)

Set Shipping dimensions:

1410mm x 1410mm x 860mm
(55.5" x 55.5" x 33.9")

Base suits square or round containment collars on tank:

Square □ : 1270 mm max (50")

Round Ø : 1380 mm max (54.3")

CONTAINMENT SYSTEMS: OPTIMUM CHAMBERS

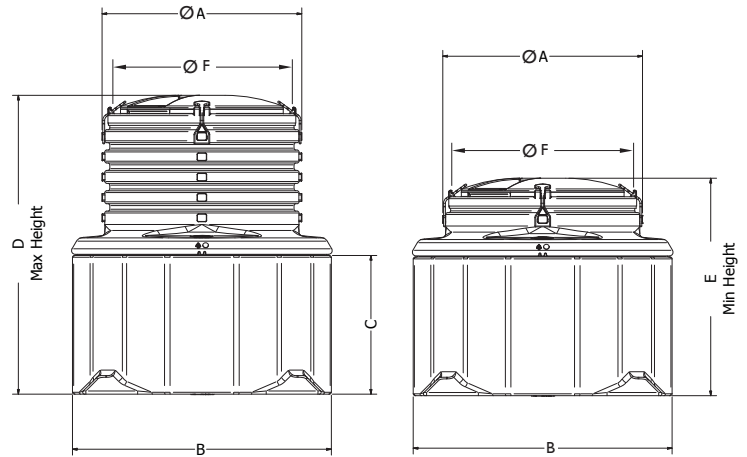
Optimum Chamber

Description	Product Code	Size (mm)	Pack Size	Weight (kg)	Weight (lbs)	Neck Opening	Overall Height (mm)
Deep Burial Tank Chamber with Watertight Lid	OCH-1400-D	1400 x 1616	1	92	203	980mm	max = 1616 min = 1176
Shallow Burial Tank Chamber with Watertight Lid	OCH-1400-S	1400 x 1266	1	80	176	980mm	max = 1266 min = 826
PE Chamber Harness Assembly	OCH-1400-H	n/a	1	2.23	4.9	n/a	n/a

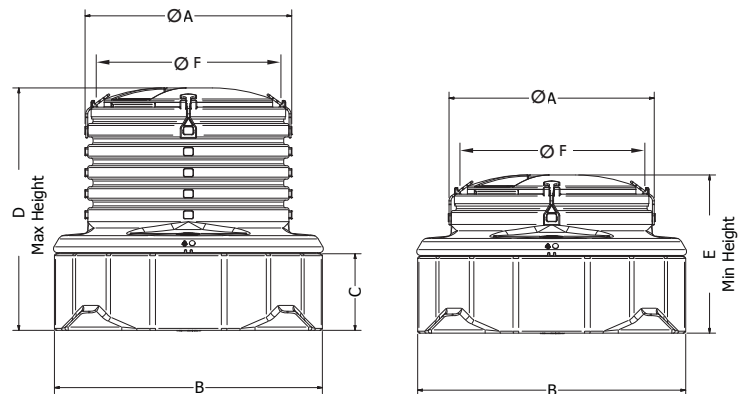


Size Chart

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



OCH-1400-D



OCH-1400-S

Base suits square or round containment collars on tank:

Square □ : 1270 mm max (50")

Round Ø : 1380 mm max (54.3")

Full set code: OCH-1400-D / OCH-1400-S

40' container loading:

8 x 2 = 16 sets

Welding lead code:

EW8-C7A

Water-tight lid only code:

OCH-1400-LW

Riser only code:

OCH-1400-RL

Deep Base: OCH-1400-BD Shallow Base: OCH-1400-BS

Deep Base only code:

OCH-1400-BD

Shallow Base only code:

OCH-1400-BS

Set Shipping weight (approx):

92Kg (202 lbs)

Set Shipping weight (approx):

80Kg (176 lbs)

Set Shipping dimensions:

1410mm x 1410mm x 1080mm
(55.5" x 55.5" x 42.5")

Set Shipping dimensions:

1410mm x 1410mm x 860mm
(55.5" x 55.5" x 33.9")

Electrofusion Seals

These electrofusion entry seals weld directly to the wall of any polyethylene chamber or sump. 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 seal is fully vacuum and pressure testable ensuring 100% leak free seals and sumps.

Electrofusible FRP Entry Seals

The new FRP entry seal from UPP systems means that it is even easier to install the worlds number one petrolpipe to fiberglass sumps than ever before.

The seals are compatible with all single and double wall, flat and curved FRP sumps available on today's market. Metal parts of the fitting are bonded and covered in the installation process by external FRP covers leaving no exposed metalwork outside the sump.

Features & Benefits

302-040 (Page 57)

Electrofusion seal for 40/32mm pipe.

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

303 Series (Page 32)

Electrofusion seal with integrated coupler.

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

304 & 305 Series (Page 32, 57 & 58)

Electrofusion seal with integrated coupler & reducer with test port.

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

308 Series (Page 57)

Electrofusion seal with integrated coupler & reducer with test port.

- Large diameter access.
- For use with 50mm (1 1/2"), 63mm (2"), 75mm (SC), 90mm (3"), 110mm (4") and 160mm (6") pipe.
- With or without test port on boot.



302-040 Series - details on page 57



303 Series - details on page 32



304 & 305 Series - details on page 32, 57 & 58



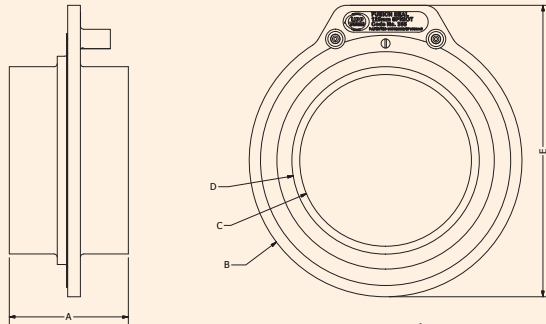
308 Series - details on page 57

CONTAINMENT SYSTEMS: ENTRY SEALS

Electrofusion Seal

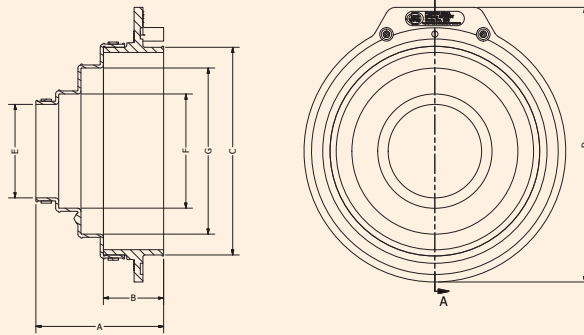
Description	Product Code	Ø (mm)	Pack Size	Weight (kg)	Weight (lbs)	Resistance (ohms)	Weld index Value	Holesaw Required	Hole Diameter (mm)	Clamp Required
Electrofusion Seal	302-040	40	45	0.1	0.22	3.2	1	HSCS2	51	302-CLAMP
Electrofusion Seal with rubber boot	305	50/63/75	10	0.44	0.97	11	3	HS5	140	305-CLAMP-1
Electrofusion Seal - extended	305-R-1	125	10	0.3	0.66	11	3	HS5	140	305-CLAMP-1
Electrofusion Seal with rubber boot	308-075	50/63/75	5	0.66	1.46	11	3	HS8	210	308-CLAMP
Electrofusion Seal with rubber boot	308	90/110/160	5	0.66	1.46	11	3	HS8	210	308-CLAMP
Electrofusion Seal - extended	308-R	200	5	0.3	0.66	11	3	HS8	210	308-CLAMP

Material:	PE	Welding current (Amps):	4
Temperature Rating (°C):	-40 to 50 °C	Weld Pin Size:	4mm



Size Chart

Product Code	A	B	C	D	E
302-040	103	80	33	40	87
305-R-1	80	182	115	125	195
308-R	58	252	190	200	265

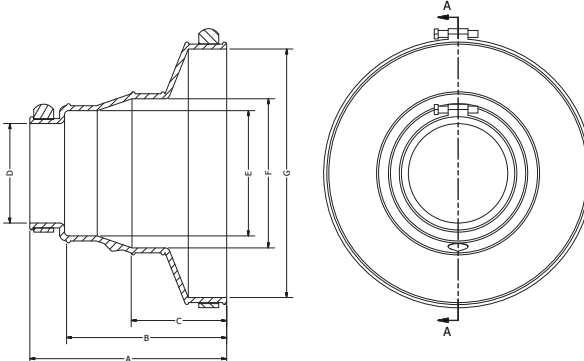


Size Chart

Product Code	A	B	C	D	E	F	G
305	159	80	125	195	50	63	75
308-075	138	58	200	265	50	63	75
308	123	58	200	265	90	110	160

SealBoot Kit

Description	Product Code	Ø (mm)	Pack Size	Weight (kg)	Weight (lbs)
SealBoot Kit	305-SB	50/63/75	20	0.2	0.44
SealBoot Kit - wide angle access	308-075-SB	50/63/75	10	0.66	1.46
SealBoot Kit	305-090-SB	90	10	0.16	0.35
SealBoot Kit	305-110-SB	110	25	0.18	0.40
SealBoot Kit	308-SB	90/110/160	20	0.34	0.75



Material:	Nitrile Rubber
Temperature Rating (°C):	-40 to 50 °C

Size Chart

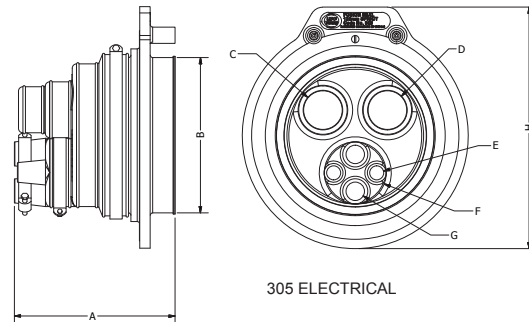
Product Code	A	B	C	D	E	F	G
305-SB	99	81	48	50	63	75	125
308-075-SB	101	81	44	50	63	75	200
305-090-SB	83	-	-	90	-	-	125
305-110-SB	78	-	-	110	-	-	125
308-SB	86	64	43	90	110	160	200

CONTAINMENT SYSTEMS: ENTRY SEALS

Electrofusion Electrical Entry Seal & Spare Boot

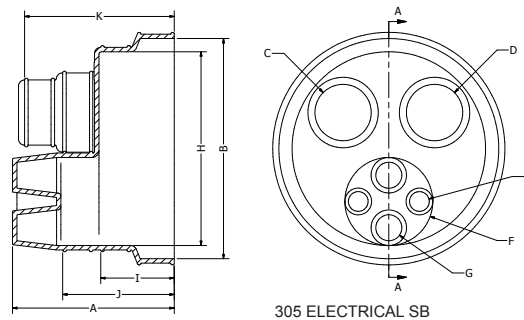
Description	Product Code	Ø (mm)	Pack Size	Weight (kg)	Weight (lbs)	Resistance (ohms)	Weld index Value	Holesaw Required	Hole Diameter (mm)	Clamp Required	Material	Welding Current (Amps)	Weld Pin Size
Electrofusion Seal - Electrical Entry	305 ELECTRICAL	11/15/32/50	10	0.5	1.10	11	3	HS5	140	305-CLAMP-1	PE / Nitrile Rubber	4	4mm
Spare Boot for 305 Electrical	305 ELECTRICAL SB	11/15/32/50	20	0.3	0.66	n/a	n/a	n/a	n/a	n/a	Nitrile Rubber	n/a	n/a

Temperature Rating (°C): -40 to 50 °C



Size Chart

Product Code	A	B	C	D	E	F	G	H
305 ELECTRICAL	152	125	32	32	11	50	15	195



Size Chart

Product Code	A	B	C	D	E	F
305 ELECTRICAL SB	92	132	32	32	11	50
	G	H	I	J	K	
	15	110	42	64	85	

Electrofusion Seal With Coupler + TP

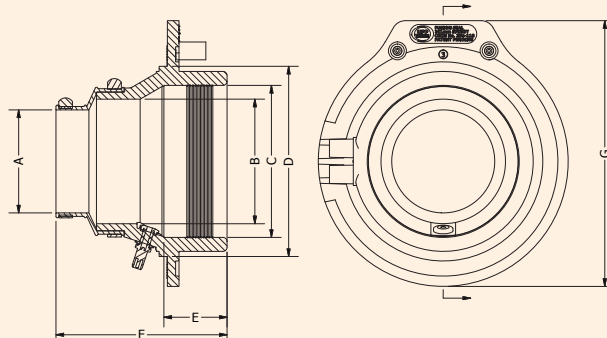
Description	Product Code	Ø (mm)	Pack Size	Weight (kg)	Weight (lbs)	Resistance (ohms)	Weld index Value	Holesaw Required	Hole Diameter (mm)	Clamp Required
Electrofusion Seal with coupler with Test Port	304-110-050-TP	50	10	0.49	1.08	11 Flange 18 Coupler	3 Flange 5 Coupler	HS5	140	304-CLAMP
Electrofusion Seal with coupler with Test Port	304-110-063-TP	63	10	0.49	1.08	11 Flange 18 Coupler	3 Flange 5 Coupler	HS5	140	304-CLAMP
Electrofusion Seal with coupler with Test Port	304-110-075-TP	75	10	0.44	0.97	11 Flange 18 Coupler	3 Flange 5 Coupler	HS5	140	304-CLAMP

Material: PE / Nitrile Rubber

Welding current (Amps): 4

Temperature Rating (°C): -40 to 50 °C

Weld Pin Size: 4mm



Size Chart

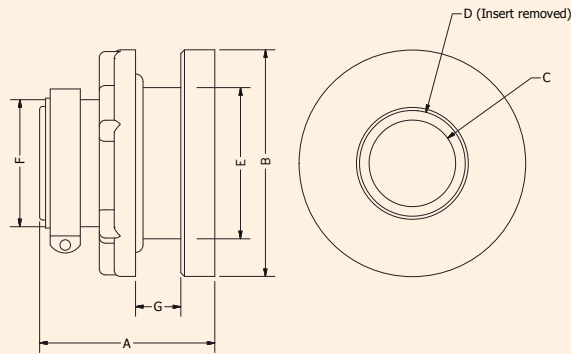
Product Code	A	B	C	D	E	F	G
304-110-050-TP	50	90	110	139	46	125	194
304-110-063-TP	63	90	110	139	46	125	194
304-110-075-TP	75	90	110	139	46	125	194

CONTAINMENT SYSTEMS: ENTRY SEALS

Entry Seal

Description	Product Code	Ø (mm)	Pack Size	Weight (kg)	Weight (lbs)	Holesaw Required	Hole Diameter (mm)
Seal for 32mm pipe	SB2.C01	32	25	0.16	0.35	HSCS2	51
Seal for 40mm pipe	SB2-C01-5	40	24	0.13	0.29	HSCS2	51

Material:	PE / Nitrile Rubber
Temperature Rating (°C):	-40 to 50 °C



Size Chart

Product Code	A	B	C	D	E	F	G
SB2.C01	58	75	26	35	50	42	15
SB2-C01-5	58	75	40	-	50	42	15

Mechanical Entry Seal

Description	Product Code	Ø (mm)	Pack Size	Weight (kg)	Weight (lbs)	Holesaw Required	Hole Diameter (mm)	Spanner Needed
Mechanical Entry Seal	PS3	50/63/75	20	0.624	1.38	HSP3	83	10mm (M6)
Mechanical Entry Seal	PS6	90/110/160	10	1.116	2.46	HSP6	168	10mm (M6)

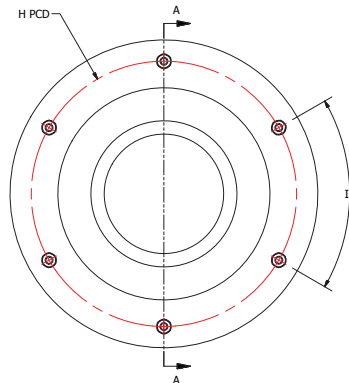
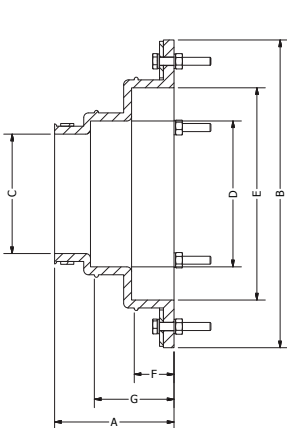
Material:	Nitrile/Zinc plated mild steel	Temperature Rating (°C):	-40 to 50 °C
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Size Chart

Product Code	A	B	C	D	E	F	G	H	I
PS3	90	147	54	63	75	30	60	120	90
PS6	90	232	90	110	160	30	60	200	60

- When used with PE sumps and chambers an additional Backing Ring is required (pg 60).
- When using PS3 with 75mm SC pipe an extra SS4 Jubilee Clip is required (pg 60).
- When using PS6 with 160mm SC pipe an extra SS8 Jubilee Clip is required (pg 60).



CONTAINMENT SYSTEMS: ENTRY SEALS

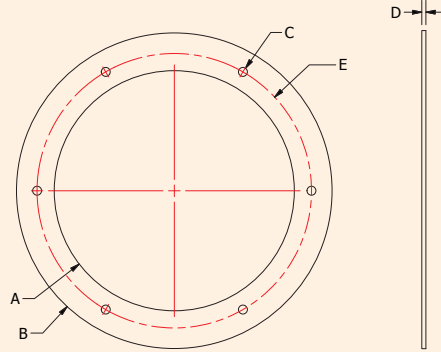
Jubilee Clip

Description	Product Code	Ø (mm)	Pack Size	Weight (kg)	Weight (lbs)	Spanners Needed	Temperature Rating (°C):
Jubilee Clip 71 - 95mm UPP PS3	SS 4	70 - 90	100	0.04	0.09	F.Driver	-40 to 50 °C
Jubilee Clip 76-127mm UPP PS6	SS 5	90 - 110	10	0.05	0.11	F.Driver	-40 to 50 °C
Jubilee Clip 165-216mm PS6/308	SS 8	158-190	50	0.08	0.18	F.Driver	-40 to 50 °C



Backing Ring For UPP

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Temperature Rating (°C):	Material:
Backing Ring for UPP PS3	PS3/R	1	0.25	0.55	-40 to 50 °C	Mild Steel, Zinc Passivate
Backing Ring for UPP PS6	PS6/R	1	0.42	0.93	-40 to 50 °C	Mild Steel, Zinc Passivate



Size Chart

Product Code	A	B	C	D	E
PS3/R	90	147	65	3	120
PS6/R	175	230	65	3	200

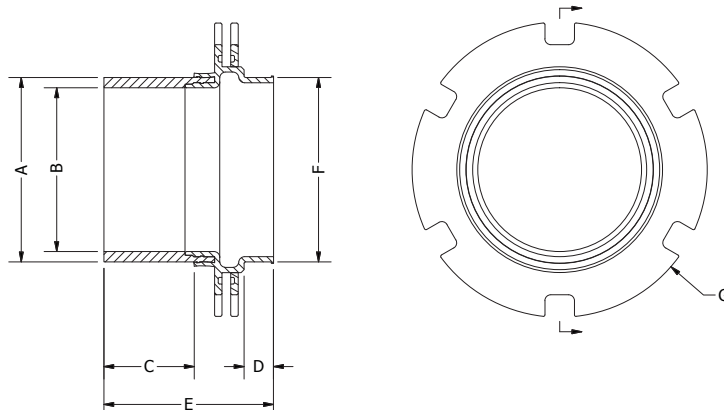
Fibre Glass Entry Boot

Description	Product Code	Ø (mm)	Pack Size	Weight (kg)	Weight (lbs)	Holesaw Required	Hole Diameter (mm)	Spanners Needed	Sealant / Adhesive Required	Adhesive Applicator Required	Material
Fibreglass Entry Seal	FEB-S-125	125	2	2.35	5.18	HS5	140	FEB-110-TOOL	FEB-E32	FEB-E32-NOZ & FEB-E32-AP	PE & Bronze

Temperature Rating (°C): -40 to 50 °C

Size Chart

Product Code	A	B	C	D	E	F	G
FEB-S-125	125	111	61	20	115	125	200



CONTAINMENT SYSTEMS: ENTRY SEALS

Fibre Glass Entry Seal

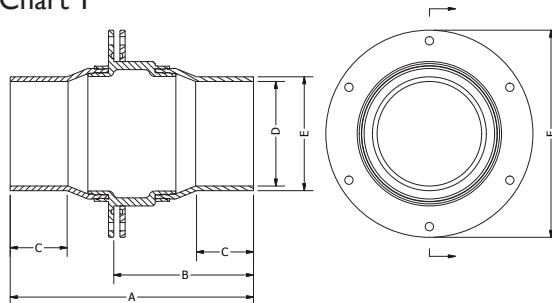
Description	Product Code	Ø (mm)	Pack Size	Weight (kg)	Weight (lbs)	Holesaw Required	Hole Diameter (mm)	Spanners Needed	Sealant / Adhesive Required	Adhesive Applicator Required	Material
Fibreglass Entry Seal - Double sided 75mm	FEB-D-075-1	75	2	2.16	4.76	HS075	105	FEB-075-TOOL	FEB-E32	FEB-E32-NOZ & FEB-E32-AP	PE & Bronze
Internal Cover for 75mm Seal	FBC-N-075	75	1	0.4	0.88	n/a	n/a	n/a	FFU-B	n/a	Fibreglass
External Cover for 75mm Seal	FBC-X-075	75	1	0.4	0.88	n/a	n/a	n/a	FFU-B	n/a	Fibreglass
Internal Curved Packer for 75mm Seal	FBP-N-075	75	1	0.1	0.22	n/a	n/a	n/a	FFU-B	n/a	Fibreglass
External Curved Packer for 75mm Seal	FBP-X-075	75	1	0.1	0.22	n/a	n/a	n/a	FFU-B	n/a	Fibreglass
Fibreglass Entry Seal - Double sided 110mm	FEB-D-110-1	110	1	4.6	10.14	HS5	140	FEB-110-TOOL	FEB-E32	FEB-E32-NOZ & FEB-E32-AP	PE & Bronze
Internal Cover for 110 & 125mm Seals	FBC-N-110	110	1	0.6	1.32	n/a	n/a	n/a	FFU-B	n/a	Fibreglass
External Cover for 110 & 125mm Seals	FBC-X-110	110	1	0.6	1.32	n/a	n/a	n/a	FFU-B	n/a	Fibreglass
Internal Curved Packer for 110mm Seal	FBP-N-110	110	1	0.6	1.32	n/a	n/a	n/a	FFU-B	n/a	Fibreglass
External Curved Packer for 110mm Seal	FBP-X-110	110	1	0.6	1.32	n/a	n/a	n/a	FFU-B	n/a	Fibreglass

Temperature Rating (°C):

-40 to 50 °C



Chart 1

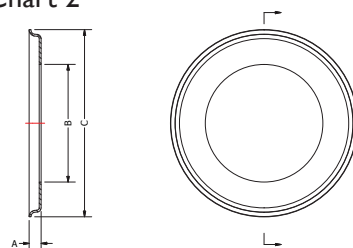


Size Chart 1

Product Code	A	B	C	D	E	F
FEB-D-075-1	200	118	38	68	75	155
FEB-D-110-1	235	135	55	101	110	200



Chart 2

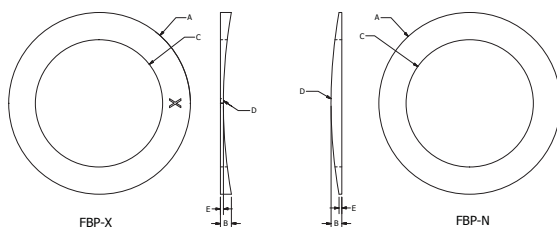


Size Chart 2

Product Code	A	B	C
FBC-N-075	14	95	178
FBC-X-075	14	95	178
FBC-N-110	14	140	222
FBC-X-110	14	140	222



Chart 3



Size Chart 3

Product Code	A	B	C	D	E
FBP-N-075	155	8	108	1143	3
FBP-X-075	155	3	108	1143	8
FBP-N-110	200	12	140	1143	3
FBP-X-110	200	3	140	1143	12

Leak Detector

The UPP leak detection system monitors the interstitial space that runs the entire length of any UPP Secondary Containment Co-Axial pipe run.

Using pressurised air the system monitors the pressure within the interstitial space. Any reduction in pressure means a leak has occurred either in the primary or secondary pipe and a visual alarm is shown on the system's display screen. An audible alarm in the unit will sound allowing the site operator to take the relevant pipelines out of service.

A pump housed inside the unit maintains the pressure in the system, meaning no external pressurised air or gas cylinders are needed, reducing costs to the operator.

Do I need more than one Leak Detector for my site?

It is possible to connect one unit to several pipe lines on a site using manifolds (with individual line gauges for easy identification of leaking lines) or using interconnecting tubing.

Does this product comply with standards?

The new LD-UPP-3 Leak Detector complies with the European standard EN 13160 and fulfils the highest environmental protection level.

New easy to use Leak Detector for Secondary Containment pipework

- Easy installation.
- Integral pumped pressure supply.
- Small weatherproof unit for discreet installation.
- One unit can service several pipe lines.
- Visual and audible alarm warnings.
- Complies with European Standard EN 13160.

Caution

This Leak Detector is not recommended for pipes with inner pipe made of plastic if liquids with flash points below 55°C are conveyed.

- Pumps and motor inside, pressurised air cylinder needed for mutual commissioning only.
- Air filter needed.

Technical Information

Max operating pressure of the Primary Pipe (bar)	Max monitored volume (m ³)	Max pipe length monitored (m)
2.0	4.0	2500

Vacuum Tightness Testing Kit

The System Integrity Testing Kit from PetroTechnik allows tightness testing of spill buckets and tank and dispenser sumps to be carried out both during the installation of underground systems and at any time during its working life to ensure continuous 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 negating the need for expensive rework.

- 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 cases.

The System Integrity Testing Kit comprises:

- 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. A pressure test setting allows for low pressure testing of pipe systems and there is also a special spill bucket setting.
- 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 separately 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.
- A portable printer (sold separately) for recording of test results is also available and plugs easily into the fascia of the test unit.

SYSTEM INTEGRITY EQUIPMENT



Leak Detectors & Manifolds

Description	Product Code	Pack	Notes	Weight (kg)	Weight (lbs)
Pumped Pressure Leak Detector 230V	LD-UPP-3	1	Pumped over pressure leak detector	8	17.64
Siren Acoustic Alarm 108dB, IP55, 230V, 50Hz, 90mA	LD-SIGNAL HORN	1	Signal Horn for LD-UPP-2 & LD-UPP-3	2	4.41
Beacon Flashing Visual Alarm with Siren IP54, 230V, 50Hz, 40mA	LD-FLASHING LIGHT	1	Warning light for LD-UPP-2 & LD-UPP-3	2	4.41
Air Filter	LD3-F	1	Air filter for LD-UPP-3	2	4.41
Manifold - 2 UPP SC Lines LD3	LD3-M2	1	2 way manifold for LD-UPP-3	2	4.41
Manifold - 3 UPP SC Lines LD3	LD3-M3	1	3 way manifold for LD-UPP-3	3	6.61
Manifold - 4 UPP SC Lines LD3	LD3-M4	1	4 way manifold for LD-UPP-3	4	8.82
Manifold - 5 UPP SC Lines LD3	LD3-M5	1	5 way manifold for LD-UPP-3	5	11.02



Nitrogen Gas Leak Detectors & Manifolds

Description	Product Code	Pack	Notes	Weight (kg)	Weight (lbs)
Nitrogen Gas - Over Pressure Leak Detector - 230V	LD-UPP-2	1	Over pressure leak detector (from gas tank)	1	2.20
Siren Acoustic Alarm 108dB, IP55, 230V, 50Hz, 90mA	LD-SIGNAL HORN	1	Signal Horn for LD-UPP-2 & LD-UPP-3	2	4.41
Beacon Flashing Visual Alarm with Siren IP54, 230V, 50Hz, 40mA	LD-FLASHING LIGHT	1	Warning light for LD-UPP-2 & LD-UPP-3	2	4.41
Manifold - 2 UPP SC Lines	LD-MANIFOLD-2	1	2 way manifold for LD-UPP-2	2	4.41
Manifold - 4 UPP SC Lines	LD-MANIFOLD-4	1	4 way manifold for LD-UPP-2	4	8.82
Manifold - 6 UPP SC Lines	LD-MANIFOLD-6	1	6 way manifold for LD-UPP-2	6	13.23
Manifold - 8 UPP SC Lines	LD-MANIFOLD-8	1	8 way manifold for LD-UPP-2	8	17.64



Leak Detection Tube Kit

Description	Product Code	Pack	Notes	Weight (kg)	Weight (lbs)
Leak Detection (Nylon) Tube Kit	LDT 60-1	1	Connection tube and test port connections	0.05	0.11



Vacuum Tightness Testing Units

Description	Product Code	Pack	Notes	Weight (kg)	Weight (lbs)	Tested on
Vacuum Tightness Testing Unit - 110V	VTU-110V	1	Testing Unit	17.75	38.58	-
Vacuum Tightness Testing Unit - 230V	VTU-230V	1	Testing Unit	17.75	38.58	-
Test Lid Assembly 560mm Diameter	VTL-560 DIA	1	Polycarbonate	3	6.6	Spill Bucket
Test Lid Assembly 1200mm Diameter	VTL-1200 DIA	1	Polycarbonate	15.5	34.17	DC4830, LA-002-001, LA-002-002
Test Lid Assembly 1350mm diameter	VTL-1350 DIA	1	Polycarbonate	21	46.2	OCH-1400-D, OCH-1400-S
Test Lid Assembly 800x800mm Square	VTL-800X800	1	Polycarbonate	9	19.84	DC4830 Riser
Test Lid Assembly 1250x600mm Rectangular	VTL-1250X600	1	Polycarbonate	11	24.25	DS4417
Test Lid Assembly 1470 x 600mm Rectangular	VTL-1470x600	1	Polycarbonate	14	30.8	DS3420, DS4620, DS3818, DS5518

230v & 110v EF1 Welder

The new EF1 electrofusion unit from PetroTechnik works with all of UPP Systems electrofusion fittings and products.

This unit works in the same way as previous UPP welders, but uses “State of the Art” electronics to provide a more user friendly and compact unit.

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)	11.3Kg (24.91lb)

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

Features and Benefits

- The EF1 welder has been tested around the world under real site conditions and has proved to be an easy to use, efficient and invaluable addition to the tool box. Its robust construction, water and dust proof features and enhanced graphic display 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.
- 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. PetroTechnik reserves the right to change product specifications at any time. This forms part of the complete UPP system.

Electrofusion Welder EF1 110v



INSTALLATION TOOLS

Hand Held Electrofusion Welder EF1 230v

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Colour	Item Type
EF1 Electrofusion Welder Set Complete with Cables - 230V	EF1-230V	1 Full Kit	3.6	7.94	Orange	Welding set
Spare Primary Cable - Orange, 4amp, 4mm Pins	EW8-PC 4MM	1	0.48	1.06	Orange / Red	Cable Assembly
Spare Secondary Cable- Green, 5amp, 2mm Pins	EW8-SC 2MM	1	0.48	1.06	Green	Cable Assembly
Spare Fusion Chamber Cable - White, 7 Amp, 2.4mm Pins	EW8-C7A	1	0.48	1.06	White	Cable Assembly
Spare Primary Cable for 32, 160 & 200mm couplers - Orange, 4amp, 2mm Pins	EW8-PC 2MM	1	0.48	1.06	Orange / Red	Cable Assembly
Spare Primary Bridging Cable- Red, 4amp, 4mm Pins	EW8-BC 4MM	1	0.02	0.04	Orange / Red	Cable Assembly



Electrofusion Welder EF1 110v

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Colour	Item Type
EF1 Electrofusion Welder Set Complete with Cables - 110V	EF1-110V	1 Full Kit	11.53	25.42	Orange	Welding set
Spare Primary Cable - Orange, 4amp, 4mm Pins	EW8-PC 4MM	1	0.48	1.06	Orange / Red	Cable Assembly
Spare Secondary Cable- Green, 5amp, 2mm Pins	EW8-SC 2MM	1	0.48	1.06	Orange / Red	Cable Assembly
Spare Fusion Chamber Cable - White, 7 Amp, 2.4mm Pins	EW8-C7A	1	0.48	1.06	White	Cable Assembly
Spare Primary Cable for 32, 160 & 200mm couplers - Orange, 4amp, 2mm Pins	EW8-PC 2MM	1	0.48	1.06	Orange / Red	Cable Assembly
Spare Primary Bridging Cable- Red, 4amp, 4mm Pins	EW8-BC 4MM	1	0.02	0.04	Orange / Red	Cable Assembly



INSTALLATION TOOLS

Electrofusion Welder E7 230v

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Colour	Item Type
E7 Electrofusion Welder Set Complete with Cables - 230V	EW/E7/230V	1 Full Kit	3.96	8.73	Orange	Welding Set
Spare Primary Cable - Orange, 4amp, 4mm Pins for E7 welders	EW/BC/C	1	0.5	1.10	Orange	Cable Assembly
Spare Secondary Cable- Green, 5amp, 2mm Pins for E7 welders	EW/BC/SC	1	0.5	1.10	Green	Cable Assembly
Spare Primary Cable for 32, 160 & 200mm couplers - Orange, 4amp, 2mm Pins for E7 welders	EW1/C	1	0.44	0.97	Orange	Cable Assembly
Spare Primary Bridging Cable, 4amp, 4mm Pins	EW8-BC 4MM	1	0.02	0.04	Yellow	Cable Assembly



Transformer for use with Electrofusion Welders

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Colour	Item Type
Transformer for use with EF1, EW8 & E7 Electrofusion Welders 115V- 230V	EW/TRANS/3.3KVA	1	18.96	41.81	Blue	Transformer



INSTALLATION TOOLS

Tool Box UPP

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Colour	Item Type
Tool Box UPP + Tools-No Welder	IB 1000 (EX EW)	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 140mm for 305 Entry Seal	HS5	1				
Holesaw 210mm for 308 Entry Seal	HS8	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 305 Extended Entry Seal	305-CLAMP-1	2				
Clamp for 308 & 308-075 Entry Seals	308-CLAMP	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	-					



Pipe Cutter

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)
Pipe Cutter 32 - 50 mm Pipe	P.CUT SMALL	1	0.76	1.68
Pipe Cutter 50 - 125mm Pipe	P.CUT	1	1.96	4.32
Pipe Cutter 110 -160mm Pipe	P.CUT MED	1	1.8	3.97
Cutting Wheel for P.CUT Pipe Cutter	CW1	1	0.016	0.04
Cutting Wheel for P.CUT SMALL Pipe Cutter	CW2	1	0.005	0.01



Clamps For Straight & Elbow Joints

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)
Straight Clamp for straight joints (32 - 110mm)	CLAMP (S)	1	1.98	4.37
Angled Clamp for straight & elbow joints	CLAMP (A)	1	2.57	5.67



INSTALLATION TOOLS



Scraper Kit

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)
Scraper Kit for 50/63/90/110mm Pipe	SCR.K(1)	1	4.98	10.98
50mm Upgrade Kit for SCR.K(1)	SCR-50MM-UG-KIT	1	0.52	1.15
Spare Blade for SCR.K(1) Scraper	SCR.B	1	0.014	0.03
Spare Drive Shaft for SCR.K(1) Scraper	SCR.K(1) SHAFT	1	0.232	0.51
Mandrel for 110mm Fill Pipe for SCR.K(1) Scraper	SCR.M110-FILL	1	0.12	0.26



Adjustable Rotary Scraper

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)
Adjustable Rotary Scraper 25-110mm 1" - 4"	SCR-025-110	1	1.48	3.26
Adjustable Rotary Scraper 90-225mm 3" - 9"	SCR-090-225	1	3.57	7.87
Spare Rotary Scraper Blade for SCR-025-110 and SCR-090-225	SCR-BLADE-025-225	1	0.01	0.02



Hand Held Scraper

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)
Hand Held Scraper	SCR.HAR	1	0.08	0.18
Blades for SCR.HAR (Twin Pack - 8 Blades)	SCR.HAR(B)	2	0.04	0.09



Fibreglass Seal Tools and Accessories

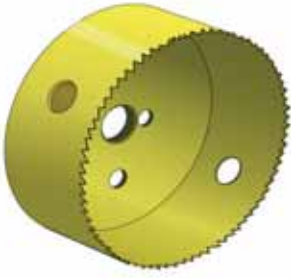
Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)
Tool To Tighten Fibreglass Entry Seal - FEB-D-075-1	FEB-075-TOOL	1	0.28	0.62
Tool To Tighten Fibreglass Entry Seals - FEB-110-D-1 & FEB-S-125	FEB-110-TOOL	1	0.32	0.71
50ml E32 Epoxy Adhesive Cartridge	FEB-E32	1	0.08	0.18
Nozzle for E32 Epoxy Cartridge	FEB-E32-NOZ	1	0.004	0.01
Applicator for E32 Epoxy Cartridge	FEB-E32-AP	1	0.172	0.38
1.1 litre Tin of Resin & Hardner for Fibreglass Entry Seal Covers	FFU-B	1	2.1	4.63



Mallet

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Material
Wooden Mallet	MAL1	1	0.22	0.49	Wood

INSTALLATION TOOLS



Steel Holesaw for Entry Seals

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)
Mandrel for All Holesaws	MAN1	1	0.22	0.49
Holesaw 51mm / 2" for SB2.C01 & 302 Entry Seals	HSCS2	1	0.12	0.26
Holesaw 83mm for PS3 Entry Seals	HSP3	1	0.25	0.55
Holesaw 102mm for 303 Entry Seals	HS 3	1	0.4	0.88
Holesaw 105mm for FEB-D-075-1 Entry Seals	HS075	1	0.46	1.01
Holesaw 140mm for FEB-D-110-1 & 305 Entry Seals	HS 5	1	0.76	1.68
Holesaw 160mm for 305-125-110 Entry Seals	HS 6	1	0.87	1.92
Holesaw 168mm for PS6 Entry Seals	HSP6	1	0.9	1.98
Holesaw 210mm for 308 Entry Seals	HS 8	1	1.36	3.00



Steel Clamps for Electrofusion Entry Seals

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)
Clamp for 302 Fusion Seal	302-CLAMP	1	0.61	1.34
Clamp for 303 Fusion Seal	303-CLAMP	1	1.6	3.53
Clamp for 304-110-090 Fusion Seal	304-CLAMP	1	1.94	4.28
Clamp for 305 (EXTENDED) Fusion Seal	305-CLAMP-1	1	1.74	3.84
Clamp for 305-125-110 Fusion Seal	305-EXT-CLAMP	1	2.19	4.83
Clamp for 308 & 308-075 Fusion Seal	308-CLAMP	1	2.22	4.89

Seal / Holesaw / Clamp Matrix

Seal Code	Holesaw	Diameter (mm)	Diameter (inches)	Clamp	Clamp Colour
302-040	HSCS2	51	2	302-CLAMP	Orange
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

SB2.C01	HSCS2	51	2
SB2.C01-5	HSCS2	51	2
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

INSTALLATION TOOLS



Hole Punch

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Colour	Material
Hole Punch for Installing Test Port into Rubber Terminating Boots & Entry Seals	TP-HP	1	0.2	0.44	Silver	Steel



Spill Container Support Jig

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Colour	Material
Jig to support Spill Container when welding Pipe in OPW561L Spill Container	T-SCJIG	1	0.95	2.09	Silver	Steel



Flex Driver

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Colour	Material
8mm Flexishaft Driver to tighten Jubilee Clips / Band Clamps	F.DRIVER	1	0.148	0.33	Black/Red	Plastic & metal



Pipe and Fitting Marker Pen

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Colour	Material
Marker Pen for marking Insertion depth on Pipe and weld times on fittings	MARKER	1	0.02	0.04	Yellow	Marker Pen

Cleaning Wipe

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Colour	Material
Cleaning/Degreasing Wipe (400)	WIPE	400	N/a	N/a	N/a	Tub of Wipes

MISCELLANEOUS



Towing Head for Primary Pipe

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Material
Towing Head for 50mm UPP Extra Primary Pipe	TH50	1	0.96	2.12	Aluminium & Steel
Towing Head for 63mm UPP Extra Primary Pipe	TH63	1	1.56	3.44	Aluminium & Steel



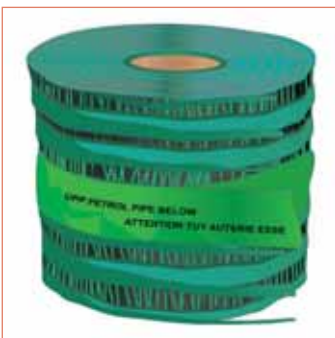
Mud Towing Head for Secondary Containment

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Material
Mud Towing Head for 63/50mm UPP Extra Coaxial Pipe	TH63SC	1	1.82	4.01	Aluminium & Steel
Mud Towing Head for all 75/63mm Coaxial Pipe	TH75SC	1	2.92	6.44	Aluminium & Steel



Towing Head for EN and UL Pipe

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Material
Towing Head for 50mm UL971 Primary Pipe	TH50-SDR8	1	0.62	1.37	Aluminium & Steel
Mud towing Head for 63/50mm UL971 Primary Pipe	TH63SC-SDR8	1	1.49	3.20	Aluminium & Steel



Detection Tape

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Material
Pipe position Detection Tape	D/TAPE	100m	0.02/m	0.04/ft	PE/Stainless Steel



Vent Cap

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Material
Vent Cap with Flame Arrestor 1½" - 2" to BS7244 with BSPT thread	VENT CAP 2	24	0.54	1.19	Cast Aluminium

MISCELLANEOUS



Test Port

Description	Product Code	Ø (mm)	Pack Size	Weight (kg)	Weight (lbs)	Material	Spanner needed
Test Port	TP	7	10	0.02	0.04	Nickle plated Brass	10mm
Notes							
Use Test Port Hole Punch TP-HP to make hole in SC Terminating Boots							



Flexible Connector

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Material
Flexible Connector	FLEXCON	1	Various	Various	Stainless Steel
Notes					
Various sizes made to order using 1½" and 2" fittings					



Ball Valve

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Material
Ball Valve 2" BSP F/F ½ Turn	BV(2)	1	1.99	4.39	Galvanised Steel
Notes					
Other Sizes Available upon request					



Reducing Nipple

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)
MM Hex steel reducer 1½" NPT to 2" NPT	HEX2	-	0.58	1.28



Weld Pin Protection Cap

Description	Product Code	Pack Size	Weight (kg)	Weight (lbs)	Material
Weld Pin Protection Cap	ESI-CAP-012	100	0.004	0.01	PE
Notes					
Electrofusion weld pin protective cap					

ELECTROFUSION OVERVIEW

The polyethylene construction of UPP pipe allows all connections to be joined using an electrofusion welding process.

Electrofusion welding provides a joint which is stronger than the pipe itself, and with no leak paths.

Electrofusion is carried out quickly and simply using specialist tools available from PetroTechnik. It can be carried out in adverse weather conditions and climates and will always give a strong and secure joint.

A large variety of electrofusion fittings are available, from simple couplers (for making in-line pipework joints), to welded terminations (for terminating double wall secondary containment pipework) and entry seals.



UPP welder, 230v or 110v systems



Double wall tees, elbows & joints

- Full double wall fittings.
- 100% annular interstitial.
- Fully welded assembly.
- Can be direct buried.
- No leak paths.



Electrofusion entry seals

- Seals weld directly to sump walls.
- No mechanical joints - no leak paths.
- No metallic parts.
- Variety of seals and sizes available.
- Seals weld directly to pipework.
- Simple installation.
- Unique to UPP Systems.



Termination fittings

- Weld directly to UPP Pipework.
- Variety of sizes available.
- Male and Female BSPT threads.
- Union terminations for easy removal.
- Very small footprint for easier installation.



Fiberglass entry seals

- For single or double wall sumps.
- Seals bond to FRP sumps and containers.
- No mechanical joints - no leak paths.
- No exposed metallic parts.
- Seals weld directly to pipework.
- Variety of sizes available.
- Unique to UPP Systems.



Working



Complement your UPP System with a Fuel storage tank from **Cookson & Zinn Ltd[®]**

Cookson & Zinn, a PetroTechnik subsidiary, has been designing and fabricating tanks and pressure vessels for the over 50 years.

Over 32,000 tanks from 1,000-250,000 litres have been supplied to 48 countries and used in many industries: fuel, chemical, food, pharmaceutical, agricultural, aviation, water and general manufacturing.

Protection of the environment has always been a number one consideration for CZ. Quality control is rigidly enforced and ISO 9001:2008 procedures ensure full traceability of materials and rigorous product testing. Deuma automatic tank assembly and welding equipment guarantee maximum concentricity and straightness.

CZ is a founder member of the double skin tank design committee and has developed a system ensuring 24-hour monitoring for potential leakage.

CZ has a wide range of products encompassing bunded storage systems, double skin underground storage tanks, above ground vertical and horizontal storage tanks, stainless steel tanks and vessels, liquid petroleum gas vessels, framed tanks and pressure vessels.

PetroTechnik has a complete system for **fuel pipework and storage solutions**.

The UPP System is a complete system, incorporating everything required from the pipework, entry fittings right through to the sumps and chambers and down to the covers. When using the complete UPP System you can be sure of a testable and 100% tight piping system. With this wide range of products you can trust that the offering is as comprehensive as possible.

PetroTechnik has a pedigree of long term partnerships with the **BEST**.

Acknowledged Market Leaders in non-metallic fuel pipework PetroTechnik's fuel pipework solutions combine cutting edge technology with world class manufacturing standards to deliver excellent results time after time. We have more international approvals than any other PE fuel pipe supplier and are trusted and specified by many Major Oil Companies, including BP, ExxonMobil and Shell. We are here to bring the full range of this experience to support you.

together



The PetroFast system combines CZ tanks with PetroTechnik pipework.

Our aim is simply to be the best at what we do, through high quality of product and service, together with an innovative approach to design and manufacture. This innovation is amply demonstrated with the introduction of the PetroFast modular forecourt fuel system, fast becoming a real alternative to the more conventional forecourt installation.

The PetroFast system is perfect for small sites and the increasingly popular kiosk free operations as it allows for the canopy to be bolted directly to mountings located on the tank avoiding the need for additional foundations. As the system can be installed with chambers and pipework fitted, very rapid installation times can be achieved typically measured in days rather than weeks.

Pre-fitted Tank Chambers save time and money.

To save significant time and money on site, and to ensure leak free connections, PetroTechnik is now offering pre-fitted and tested Cookson & Zinn underground storage tanks with all tank compartment lids, tank chambers, entry seals and pipework connections pre-fitted. The tank is delivered to site fitted with "quick-connection" pipework stubs ready to be electrofused to the main site pipe runs.

All the equipment is installed at the Cookson & Zinn works by trained engineers and, once complete, all parts are vacuum tested to ensure their leak-tight integrity.

The whole assembly includes fully fitted out tank lids ready for fuel delivery, UPP electrofusion polyethylene tank chamber base sections, UPP electrofusion entry seals for suction/pressure, vent, fill, VR2 and electrical duct lines and UPP pipework connections.

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