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HOSPITALS



# **Vulcathene**

**Safe chemical drainage**

*Technical Data & Dimensions*



## Purpose designed for safe chemical drainage

Specified world wide and proven as the world leading solution for chemical waste drainage



- Two easy jointing methods  
Mechanical or Enfusion
- Injection moulded fittings for  
accuracy and reliability
- Purpose designed for  
chemical drainage
- BBA tested/approved for  
chemical drainage
- Specified world wide for  
safe chemical drainage



### Specified world wide for laboratory drainage for over 50 years

Vulcathene boasts over 50 years proven performance in the laboratories of thousands of schools, universities, hospitals and research facilities around the world... proof of its very high reliability for safe chemical drainage.



## Contents

<b>System Overview (Enfusion &amp; Mechanical)</b>	4
<b>Standards &amp; Quality</b>	5
<b>Material Properties</b>	8
<b>Product Range Overview</b>	
<i>Pipe, Bench Products and Ancillaries</i>	9
<i>Mechanical Fittings</i>	10
<i>Enfusion fittings</i>	11
<b>Pipe, Bench Products and Ancillaries</b>	
<i>Vulcathene Pipe</i>	12
<i>Waste Outlets/Standing Wastes</i>	12
<i>Plugs/Overflow Assemblies</i>	12
<i>Drip Cups</i>	13
<i>Sinks</i>	14
<i>Traps</i>	15-17
<i>Accessories</i>	17-19
<i>Flexible Couplings</i>	19
<b>Mechanical Fittings</b>	
<i>Bends</i>	20
<i>Tees/Wyes</i>	21
<i>Couplers/Adaptors</i>	22-24
<i>Thermal Stress Relief Units</i>	24
<i>Access Pipes</i>	25
<i>Flanges</i>	25
<i>Nuts/Olives/Blanking Off Plugs</i>	25-26
<i>Vulcathene Mechanical Tools</i>	26
<i>Polyfusion Adaptors</i>	27
<b>Mechanical Drainage Design</b>	28
<b>Making the Mechanical Joint</b>	29-30
<b>Enfusion Fittings</b>	
<i>Bends</i>	31-32
<i>Tees/Wyes</i>	33-34
<i>Tubular Traps</i>	35
<i>Couplers/Adaptors</i>	35-36
<i>Thermal Stress Relief Units</i>	37
<i>Access Pipes</i>	37
<i>Flanges</i>	38
<i>Cleanout Plugs</i>	38
<i>Vulcathene Enfusion Tools</i>	39
<b>Enfusion Drainage System</b>	39
<b>Making the Enfusion Joint</b>	40-42
<b>Vulcathene Installation Advice</b>	43-47
<b>Connections to other Pipework</b>	48-50
<b>Vulcathene Chemical Resistance Data</b>	51-62
<b>Vultex Labline Laboratory Service Controls</b>	63
<i>Controls</i>	64-70
<i>Technical Data</i>	71-72
<i>Associated Laboratory Products</i>	73
<i>Supplier Comparison Data</i>	74
<i>Visual Service ID</i>	75

**W001 Pipe**

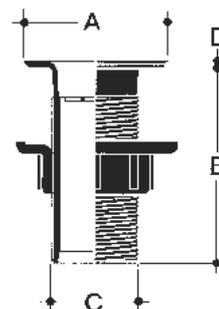
Produced in nominal internal diameters of 38mm, 51mm, 76mm, 102mm and 152mm (Enfusion only), Vulcathene pipes are supplied in standard 4m lengths.

	1 1/2"	2"	3"	4"	6"
Nominal internal diameter	38mm	51mm	76mm	102mm	152mm
Nominal external diameter	48.3mm	60.3mm	89.0mm	114.3mm	168.3mm
Kg/m	0.43	0.58	1.25	1.63	4.34
Product Code	V410310	V410320	V410330	V410340	V410360



**504 Waste**

The range of 1/4", 1/2", and 2" BSP threaded wastes are produced with flange widths of 60, 73 and 85mm to suit ceramic, porcelain, metal or plastic sink outlets. Slotted wastes are available for use where the waste has to accept an overflow. With an integral grating the waste is supplied with a plug ready to accept a chain fastening. Both the 1/4" and 1/2" waste outlets are available in all flange diameters and either 89mm or 102mm lengths; the 2" waste outlet is available in 85mm flange diameter and 102mm length only. Unslotted waste outlets are supplied with one waste gasket; slotted wastes are supplied with two waste gaskets. When ordering please indicate - a. Waste diameter; b. Flange diameter; c. Whether slotted or unslotted required.



<b>Cat. No.</b>	<b>504</b>
A	60/73/85mm
B	89/102/102mm
C	1/4" BSP/1/2" BSP/2" BSP
D	3/3/3mm
gms	1 1/4"-65; 1 1/2"-75; 2"-90

**507 Standing Waste Tube**

Standing waste tubes are available in three lengths and the diameters are in relation to the need to fit 1/4", 1/2", and 2" BSP threaded 504 series wastes. If required they can be supplied with a hanging loop. 51mm size supplied in 225mm length only. 32mm and 38mm supplied in 140mm and 178mm lengths only.



<b>Cat. No.</b>	<b>507</b>
A	140/178/225mm
B	32/38/51mm
gms	60

**508 Plug & Chain Assembly**

Comprising a 450mm length of stainless steel oval link chain, with a screw stay, the plug and chain assembly is available to fit either 1/4", 1/2", or 2" BSP No 504 series waste fittings.

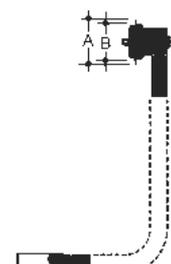
<b>Cat. No.</b>	<b>508</b>
gms	44



**509 Overflow Assembly**

The range of 509 overflow assemblies are suitable for installation with a 38mm slotted waste and any sink illustrated in this catalogue. They comprise of an overflow collar connected by a flexible hose to the overflow bend. Because of the varying requirements for placement of the overflow in the side of the sink we recommend that a hole of 42mm diameter be cut in the side of the sink to take the overflow bend. The overflow is extendable from 9" to 22".

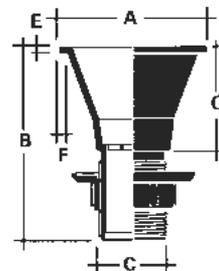
<b>Cat. No.</b>	<b>509</b>
A	60mm
B	48mm
gms	65
Product Code	V5509001



501 Small Circular Drip Cup

The range of 501 small circular drip cups, come with an integral grating and a wall thickness of 3mm. The small circular drip cup has steeply sloping sides to minimise splashing and the 8mm wide rim gives it stability when top mounted in the working surface. With an opening diameter of 86mm and depth of 73mm it is supplied complete with hose restraining plug and backnut.

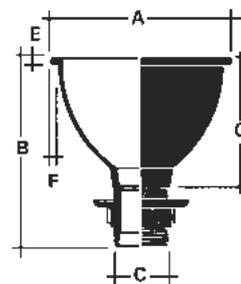
<b>Cat. No.</b>	<b>501</b>
A	102mm
B	136mm
C	1 1/2" BSP
E	5mm
F	6mm
G	76mm
Product Code	V5501001



500 Large Circular Drip Cup

The range of 500 large circular drip cups come with an integral grating and a wall thickness of 3mm. The large circular drip cup is designed for top mounting. With a top opening diameter of 146mm it is 114mm deep and the 11mm wide rim gives it stability when top mounted in the working surface. It is supplied complete with a backnut and hose restraining plug.

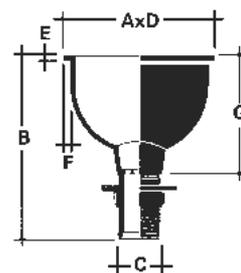
<b>Cat. No.</b>	<b>500</b>
A	168mm
B	165mm
C	1 1/2" BSP
E	8mm
F	11mm
G	114mm
Product Code	V5500001



497 Small Oval Drip Cup

The range of 497 small oval drip cups are moulded with a 3mm thick wall and have an opening of 166mm x 90mm x 143mm deep. The 6mm wide rim gives it stability when top mounted in the working surface. It has an integral grating, is designed for top mounting and is supplied complete with backnut.

<b>Cat. No.</b>	<b>497</b>
A	178mm
B	216mm
C	1 1/2" BSP
D	102mm
E	6mm
F	6mm
G	143mm
Product Code	V5497001

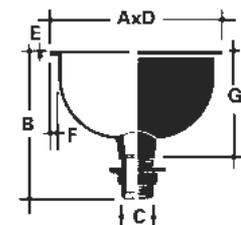


A = length D = width

499B/499T Large Oval Drip Cup

The range of 499 Large Oval Drip Cups are moulded with a 3mm thick wall, offering a choice of 2 alternative flange fixings, offering a choice of 2 alternative flange fixings. Moulded with deeply curved bowls, they have integral gratings and are supplied complete with backnuts and a hose restraining plug. The 499B and 499T are designed for top mounting.

<b>Cat. No.</b>	<b>499B</b>	<b>499T</b>
A	264mm	305mm
B	225mm	225mm
C	1 1/2" BSP	1 1/2" BSP
D	111mm	152mm
E	6mm	6mm
F	13mm	32mm
G	161mm	161mm
Product Code	V5499001	V5490001

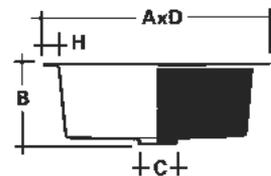


A = length D = width

**601 Sink**

The 601 sink is extremely robust and has a self draining base. Its recessed outlet will accept the flange of the 1½" BSP 504 non-overflow threaded outlet but, if required, a 509 overflow assembly can be fitted. These sinks are designed for mounting on the underside of work surfaces.

<b>Cat. No.</b>	<b>601</b>
A	492mm
B	171mm
C	76 mm
D	241mm
H	32mm
gms	1030
Radius	36mm
Product Code	V460100

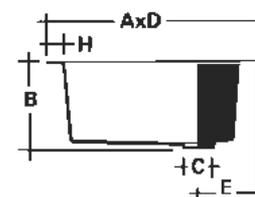


A = length D = width

**602 Sink**

The 602 sink is extremely robust and has a self draining base. Its recessed outlet will accept the flange of the 1½" BSP 504 non-overflow threaded outlet but, if required, a 509 overflow assembly can be fitted. These sinks are designed for mounting on the underside of work surfaces.

<b>Cat. No.</b>	<b>602</b>
A	552mm
B	231mm
C	74mm
D	400mm
E	152mm
H	35mm
gms	2668
Radius	35mm
Product Code	V460200

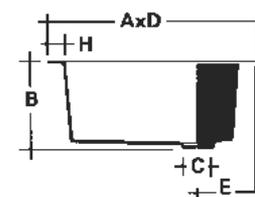


A = length D = width

**604 Sink**

Available in three sizes the 604 range of sinks are extremely robust and have a self draining base. The 76mm recessed outlet will accept the flange of the 1½" BSP 504 non-overflow threaded outlet but, if required, a 509 overflow assembly can be fitted. These sinks are designed for mounting on the underside of work surfaces, the 48mm wide top rim, which gives rigidity, has a recess flange to accept the self adhesive sealing strip supplied with each sink.

<b>Cat. No.</b>	<b>604/1</b>	<b>604/2</b>	<b>604/4</b>
A	343mm	445mm	492mm
B	140mm	140mm	165mm
C	76mm	76mm	76mm
D	288mm	343mm	419mm
E	152mm	152mm	152mm
H	48mm	48mm	41mm
gms	2765		
Radius	40mm	40mm	40mm
Product Code	V260410	V260420	V260440

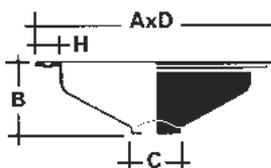


A = length D = width

**605/1 Trough**

This trough has a self draining base which incorporates a 76mm recessed outlet to accept a 1½" BSP 504 non-slotted threaded waste. These troughs are designed for mounting on the underside of work surfaces. Each trough is supplied with a self adhesive sealing strip which, when positioned in the recess in the trough lip, will form a watertight seal between the trough and the work surface.

<b>Cat. No.</b>	<b>605/1</b>
A	403mm
B	111mm
C	76mm
D	190mm
H	38mm
Radius	36mm
Product Code	V260510

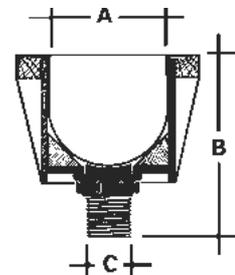


A = length D = width

## 603 Running Trough

Fabricated to customers specific requirements the running trough is manufactured with 3mm thick walls and is supplied complete with waste outlet - as specified - and supporting framework.

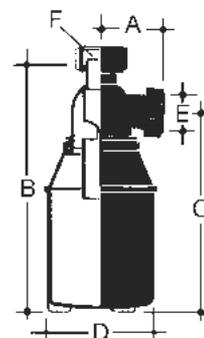
<b>Cat. No.</b>	<b>603</b>
A	127mm
B	210mm
C	1 1/2" BSP 2" BSP



## W681 Dilution Recovery Trap

Easily emptied, by unscrewing the base from the trap, this large capacity anti-siphonic dilution recovery trap has a 76mm liquid seal and holds 2.3 litres. The 1 1/2" BSP inlet includes a loose nut coupling for connection to a waste outlet or drip cup tail. The trap is supplied with a nut and olive to enable it to be 'P' trap configured for 38mm pipe. The addition of a W291 38mm bend will change the configuration to an 'S' trap.

<b>Cat. No.</b>	<b>W681</b>
A	86mm
B	325mm
C	270mm
D	133mm
E	1 1/2" Mechanical thread
F	1 1/2" BSP
gms	480
Product Code	V1068101



## W691 Dilution Recovery Trap (Glass Base)

The 691 trap has a total capacity of 2.3 litres and a 76mm liquid seal.

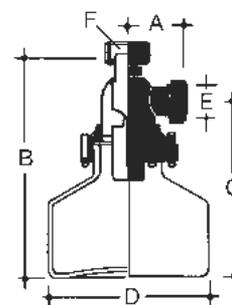
The clear base of heat resistant, borosilicate glass makes this an ideal choice for use in waste systems which have to cope with large quantities of solid waste matter. The trap allows the volume of solids collected to be quickly assessed and, where necessary, cleared, before they can cause any damage to the system. It also allows the identification and recovery of valuable solids.

In order to remove the dilution chamber from the trap body, the glass unit should be unscrewed complete with its flange assembly. The 1 1/2" BSP inlet includes a loose nut coupling for connection to a waste outlet or drip cup tail.

The trap is supplied with a nut and olive to enable it to be 'P' trap configured for 38mm pipe. The addition of a W291 38mm bend will change the configuration to an 'S' trap.

**When installed it is important to support the underside of the trap (at least 76mm above the floor) to avoid weight strain on the pipework and connections.**

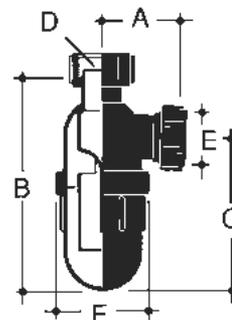
<b>Cat. No.</b>	<b>W691</b>
A	86mm
B	314mm
C	254mm
D	229mm
E	1 1/2" Mechanical thread
F	1 1/2" BSP
gms	2390
Product Code	V1069101



**W561 Anti-Siphon Bottle Trap**

Retaining its seal under the most demanding conditions this trap is completely dependable and is ideal for the most severe conditions. With a 76mm liquid seal, the base can be unscrewed from the body for easy cleaning.

Provided with a 1 1/2" BSP loose nut coupling for screwing to waste or drip cup tails, the 'P' outlet is supplied with nut and olive to take 38mm Vulcathene mechanical pipe. When required a W291/L291A 38mm bend will convert it to an 'S' trap.



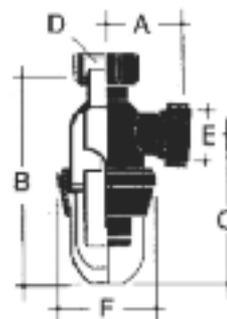
<b>Cat. No.</b>	<b>W561</b>
A	86mm
B	203mm
C	143mm
D	1 1/2" BSP
E	1 1/2" Mechanical thread
F	89mm
gms	300
Product Code	V1056101

**W571 Anti-Siphon Bottle Trap (Glass Base)**

Retaining its seal under the most demanding conditions this trap is completely dependable and is ideal for the most severe conditions. With a 76mm liquid seal, the base can be unscrewed from the body for easy cleaning.

Provided with a 1 1/2" BSP loose nut coupling for screwing to waste or drip cup tails, the 'P' outlet is supplied with nut and olive to take 38mm Vulcathene mechanical pipe. When required a W291/L291A 38mm bend will convert it to an 'S' trap.

The clear base of heat resistant, borosilicate glass makes this an ideal choice for use in waste systems which have to cope with large quantities of solid waste matter. The trap allows the volume of solids collected to be quickly assessed and, where necessary, cleared, before they can cause any damage to the system. It also allows the identification and recovery of valuable solids.



<b>Cat. No.</b>	<b>W571</b>
A	86mm
B	222mm
C	162mm
D	1 1/2" BSP
E	1 1/2" Mechanical thread
F	89mm
gms	923
Product Code	V1057101

**W612 Dilution Recovery Trap**

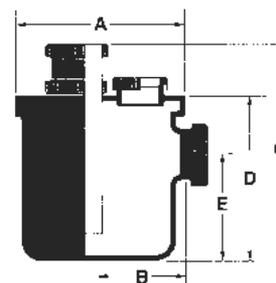
With a 4.5 litre capacity and a 76mm trap seal the W612 is particularly useful for those situations where under-bench height is limited.

When cleaning out the unit, union nuts on the lid should be disconnected, the dip tubes withdrawn and the interior of the dilution chamber carefully flushed out.

No attempt should be made to separate the lid from the dilution chamber.

For a 'P' outlet, a 51mm nut and olive is supplied, and for an 'S' outlet, add a W292 51mm bend.

Where it is intended to use the unit as a dilution chamber only, the dip tubes should be omitted. The unit is supplied with dip tubes, nuts, olives and blanking off plug. (Additional dip tubes and blanking off plugs can be ordered separately).

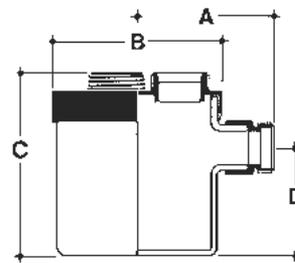


<b>Cat. No.</b>	<b>W612</b>
A	230mm
B	121mm
C	318mm
D	244mm
E	168mm
gms	2250
Product Code	V1061201

910G Dilution Recovery Trap (Glass Base)

With a 4.5 litre capacity and a 76mm trap seal the 910G, with its clear base of heat resistant, borosilicate glass allows the volume of solids collected to be quickly assessed and, where necessary, cleared. It also allows the identification and recovery of valuable solids. Outlet connection is 51mm, with nut & olive supplied. Dip tubes, vertical inlets, horizontal inlets and blanking off plugs should be ordered separately.

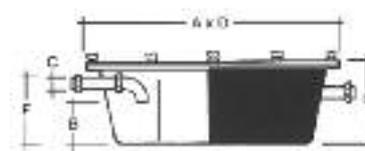
Cat. No.	910G
A	200mm
B	230mm
C	264mm
D	140mm
gms	4010
Product Code	V5910001



W915 Clay Trap

With a 20 litre capacity the 552 x 400 x 270mm deep clay trap incorporates inlet, and outlet connections at opposite ends, which accept W151 38mm FI BSP connectors. The outlet connection has a 76mm liquid seal and the lid, which has a sealing ring, is retained in position with fourteen wing nuts.

Cat. No.	W915
A	552mm
B	76mm
C	38 mm
D	400mm
E	270mm
F	171mm
gms	8900
Product Code	V1091501

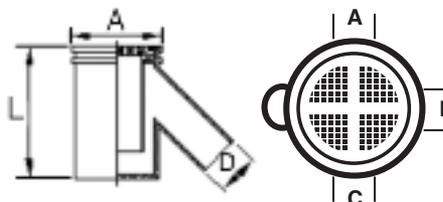


Trapped Floor Gully

The 4.5 litre trapped floor gully is fabricated from beige grey polypropylene and has a 76mm liquid seal. The removable grating gives easy access to the interior for cleaning.

The gully has a 76mm plain ended outlet for either Mechanical or Enfusion jointing. Additional side or back inlets in positions A, B or C (as indicated) can be supplied to order. **Note:** Vulcathene floor gullies are fabricated to order.

Nom. Size	4.5 litres
A	250mm
L	320mm
D	89.0mm (Outside Diameter)
Product Code	V1810100

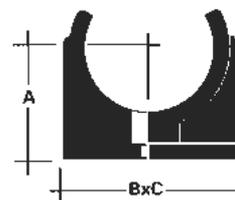


PC91 Pipe Clip

Of snap-on type these clips retain the pipe securely in place while allowing lateral movement of the pipe caused by fluctuations in thermal conditions.

Note: When 76mm and 102mm pipe are installed in long vertical runs considerable strain may be caused by thermal movement. In such conditions metal brackets should be used to retain the pipe, i.e. Munson Ring.

Cat. No.	91			
Nom. Size	38mm	51mm	76mm	102mm
A	38mm	44mm	67mm	89mm
B	60mm	76mm	111mm	140mm
C	19mm	19mm	32mm	32mm
gms	32	52	82	120
Product Code	V5091101	V5091201	V5091301	V5091401



W916 Flexible Connector

Standard flexible connectors manufactured from polypropylene for use with mobile fume cupboards. The ends are pre-grooved with nut and olive supplied.

Size: 38mm

Length: 1m, 1.5m, 2m or 3m

Other lengths can be supplied to special order.

Product Codes: V5916001, V5916015, V5916002, V5916003



## W465 Clamp Saddle

Clamp saddles enable easy connection of new branch pipes to existing Vulcathene stacks. The saddles have BSP female threaded outlets, nitrile seals, zinc plated hardware and are supplied in four sizes.

For connection to 38mm and 51mm Vulcathene pipes use Vulcathene Mechanical or Enfusion male BSP adapters.



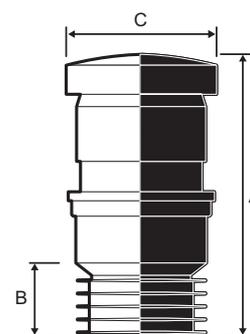
Cat. No.	W465	Product Code
Sizes:	102mm x 2" BSP	gms: 540 V465050
	102mm x 1 1/2" BSP	500 V465060
	76mm x 2" BSP	440 V465070
	76mm x 1 1/2" BSP	430 V465080

## W450 Air Admittance Valve

Air admittance valves enable Vulcathene stacks to be terminated inside the building thereby avoiding costly roof penetration. They are designed to prevent the release of foul air whilst admitting air under conditions of reduced pressure in discharge pipes preventing water seals in traps from being drawn. The valves also contribute to the ventilation of the main drain to which the discharge stack incorporating the valve is connected.

The Vulcathene air admittance valve is designed to suit 102mm Vulcathene pipe and incorporates a rubber finned tail for internal pipe connection and a removable screw cap for maintenance access.

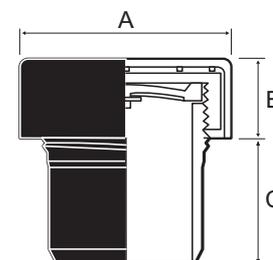
To connect to a 76mm Vulcathene stack use a 102mm/76mm reducer and insert the valve into the 102mm socket.



Cat. No.	W450
Sizes:	102mm
A	245mm
B	60mm
C	135mm
gms	872
Product Code	V466040

## W50 Anti-Siphon Unit

Anti-siphon units are designed to prevent the release of foul air whilst admitting air under conditions of induced or self-siphonage in discharge pipes preventing water seals in traps from being drawn. The W50 is suitable for connection to 51mm Vulcathene pipe and incorporates a rubber seal which must first be inserted into the pipe followed by the anti-siphon unit.



Cat. No.	W50
Sizes:	51mm
A	61mm
B	22mm
C	36mm
Product Code	V467020

## Unicollar® Fire Protection

Unicollar is a unique method of protecting Vulcathene pipes which pass through fire rated walls and floors. The system is supplied in continuous strip form which is cut to length and attached to the element using ready-made clips. These clips fit into the pre-punched slots on the strip.

Unicollar is packed in a box which contains 2250mm length of collar or 150 segments. The box has installation details on one face. The collar is designed so that it can be cut and snapped in segments of 15mm. One box is the equivalent of 5 x 102mm (114.3mm OD) Vulcathene collars.



Product Code	V468100
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For details on fire rating and installation see pages 46 and 47.

## Vulcathene

## Pipe, Bench Products & Ancillaries

### Galvanised Support Channel

A galvanised metal support channel, supplied in standard 2.5 metre lengths, should be used where Vulcathene pipework requires continuous support.



		Product Code
<b>Sizes:</b>	38mm	V465010
	51mm	V465020
	76mm	V465030
	102mm	V465040

### Vulcathene Lubricant

Supplied in 200g pots, Vulcathene lubricant should be applied to the threads of fittings before making a mechanical joint.



Product Code V5900002

### W651/W652 Vertical Inlet

For use with 910G Dilution Recovery Traps to make a vertical pipe connection.



Cat. No.	W651	W652
gms	97	135
Product Code	V1065101	V1065201

### W641/W642 Horizontal Inlet

For use with 910G Dilution Recovery Traps to make a horizontal pipe connection.



Cat. No.	W641	W642
gms	148	207
Product Code	V1064101	V1064201

### Glass Dip Tube

For use with 910G Dilution Recovery Traps.



Product Code V5913001

### Blanking Off Plug

For use with 910G Dilution Recovery Traps

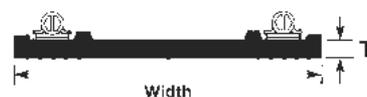


Product Code V5912001

### DC95/DC115 Flexible Drain Coupling

For connecting 76mm and 102mm Vulcathene stacks to underground drainage systems of other materials where a flange connection is not available. Flexible drain couplings, with nitrile sleeves, incorporate medium duty stainless steel clamping bands at either end.

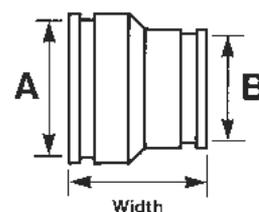
Cat. No.	DC95	DC115
Size range (mm)	80-95	100-115
Width (mm)	100	100
'T' (mm)	7	7
Application	75mm (3") ABS 75mm Cast Iron 75mm Ductile Iron	100mm PVC-U 100mm PE 100mm Stainless Steel
gms	402	435
Product Code	V100DC95	V100DC115



### AC1221/AC1361 AC5144/AC1362 Flexible Adaptor Coupling

For connecting 76mm and 102mm Vulcathene stacks to underground drainage systems of other materials where a flange connection is not available. Flexible adaptor couplings have a stepped moulded nitrile sleeve with different diameters at each end to enable pipes of differing outside diameters to be jointed economically and quickly without the use of bushes. The sleeve is fitted with two stainless steel clamping bands by which they are secured to the pipe ends.

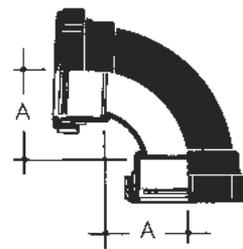
Cat. No.	AC1221	AC1361	AC5144	AC1362
Size range A/B (mm)	110-122/80-95	121-136/80-95	110-125/100-115	121-136/100-115
Width (mm)	100	100	100	100
Application (100mm)	PVC-U Cast Iron Supersleeve	Vitrified Clay Asbestos Cement Salt Glazed Ware	Supersleeve Cast Iron Ductile Iron Asbestos Cement	Vitrified Clay Salt Glazed Ware Asbestos Cement
gms	400	460	463	500
Product Code	V1AC1221	V1AC1361	V1AC5144	V1AC1362



**W18 92½° Bend**

Both ends have standard nut and olive connections.

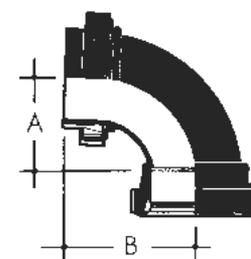
Cat. No.	W181	W182	W183	W184
Nom. Size	38mm	51mm	76mm	102mm
A	43mm	64mm	86mm	100mm
gms	64	113	343	625
Product Code	V1018101	V1018201	V1018301	V1018401



**W29 92½° Loose Nut Sweep Bend**

One end has the standard nut and olive connection whilst the other has a captive nut for connection to threaded units.

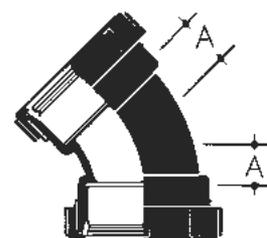
Cat. No.	W291	W292	W293	W294
Nom. Size	38mm	51mm	76mm	102mm
A	54mm	64mm	87mm	104mm
B	65mm	93mm	136mm	167mm
gms	68	109	338	613
Product Code	V1029101	V1029201	V1029301	V1029401



**W19 135° Slow Bend**

Both ends have standard nut and olive connections

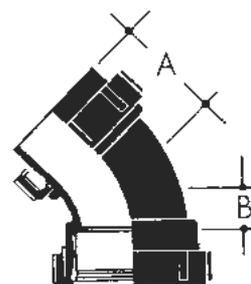
Cat. No.	W191	W192	W193	W194
Nom. Size	38mm	51mm	76mm	102mm
A	15mm	16mm	51mm	48mm
gms	75	120	291	900
Product Code	V1019101	V1019201	V1019301	V1019401



**W21 135° Loose Nut Slow Bend**

One end has the standard nut and olive connection whilst the other has a captive nut for connection to threaded units.

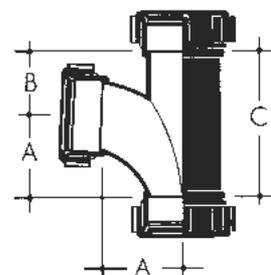
Cat. No.	W211	W212	W213	W214
Nom. Size	38mm	51mm	76mm	102mm
A	44mm	44mm	102mm	114mm
B	15mm	18mm	51mm	45mm
gms	44	66	294	468
Product Code	V1021101	V1021201	V1021301	V1021401



**W20 92<sup>1</sup>/<sub>2</sub>° Equal Sweep Tee**

The three equal sized ends have standard nut and olive connections.

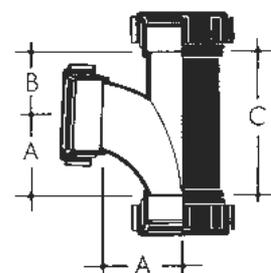
Cat. No.	W201	W202	W203	W204
Nom. Size	38mm	51mm	76mm	102mm
A	59mm	62mm	83mm	98mm
B	39mm	52mm	39mm	76mm
C	97mm	114mm	122mm	175mm
gms	104	160	471	860
Product Code	V1020101	V1020201	V1020301	V1020401



**W20 92<sup>1</sup>/<sub>2</sub>° Reducing Sweep Tee**

The two equal and one reduced sized ends have standard nut and olive connections.

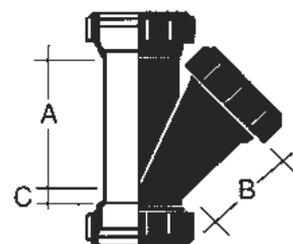
Cat. No.	W2021
Nom. Size	51x38mm
A	58mm
B	45mm
C	114mm
gms	146
Product Code	V1020211



**W37 45° Single Wye**

The three equal sized ends have standard nut and olive connections.

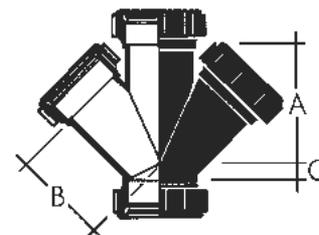
Cat. No.	W371	W372	W373	W374
Nom. Size	38mm	51mm	76mm	102mm
A	86mm	91mm	177mm	213mm
B	64mm	76mm	152mm	178mm
C	8mm	17mm	43mm	49mm
gms	96	151	650	1087
Product Code	V1037101	V1037201	V1037301	V1037401



**W38 45° Double Wye**

Available in all sizes. The four equal sized ends have standard nut and olive connections.

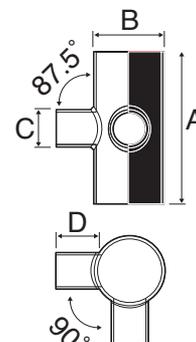
Cat. No.	W381	W382	W383	W384
Nom. Size	38mm	51mm	76mm	102mm
A	86mm	91mm	177mm	213mm
B	64mm	76mm	152mm	178mm
C	8mm	17mm	43mm	49mm
gms	180	228	800	1600
Product Code	V1038101	V1038201	V1038301	V1038401



**W942 90° Corner Branch**

The 90° Corner branch is available in size 102mm x 51mm with spigot ends for either Mechanical or Enfusion jointing. The 51mm branches are at 92½° to the main bore. Additional nuts and olives are required for Mechanical jointing unless connecting to another Vulcathene Mechanical fitting. For 38mm branch connections use Vulcathene W3921 reducers.

<b>Cat. No.</b>	<b>W942</b>
<b>Sizes:</b>	102mm x 51mm
A	250mm
B	114.3mm
C	60.3mm
D	62.9mm
gms	480
Product Code	V1094201



**W70 'U' Bend**

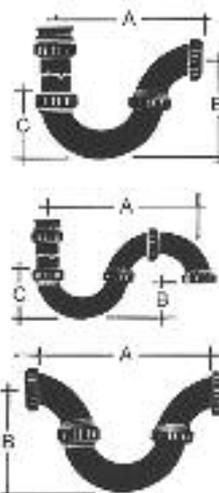
Available in 38mm and 51mm sizes the 'U' bend can be combined with other standard fittings from the range to make up 'P', 'S' and Running Traps.

In order to make up both 'P' and 'S' configurations the addition of a length of Vulcathene mechanical pipe, and a W15 coupler, to one end enables it to be connected to the waste fitting whilst the addition of a W29 loose nut sweep bend converts it into a 'P' trap.

The addition of a further W29 make it into a 'S' trap. Connecting a W29 to each end of the 'U' bend makes up a running trap.

Cat. No.	'P' Trap		'S' Trap		'Running' Trap	
Nom. Size	38mm	51mm	38mm	51mm	38mm	51mm
A	219mm	259mm	235mm	273mm	199mm	231mm
B	136mm	171mm	85mm	75mm	136mm	171mm
C	84mm	100mm	84mm	100mm		
gms	140 (38mm) 236 (51mm)					

Product Code	38mm	V1070101
	51mm	V1070201



**W16 Line Coupler**

For connecting equal sized pipes together. Supplied with two nuts and olives.

Cat. No.	W161	W162	W163	W164
Nom. Size	38mm	51mm	76mm	102mm
B	3mm	3mm	6mm	6mm
gms	29	46	183	301
Product Code	V1016101	V1016201	V1016301	V1016401

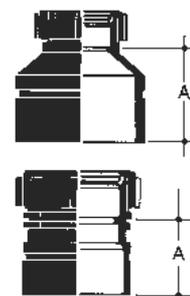


**W39 Reducing Coupler**

The six reducing couplers which cover the range all have nut and olive connections on the small diameter end while the spigot end is grooved, ready to accept the nut and olive from the fitting which is to be reduced.

Cat. No.	W3921	W3931	W3932
Nom. Size	51 x 38mm	76 x 38mm	76 x 51mm
A	40mm	60mm	57mm
gms	44	95	102
Product Code	V1039211	V1039311	V1039321

Cat. No.	W3941	W3942	W3943
Nom. Size	102 x 38mm	102 x 51mm	102 x 76mm
A	97mm	89mm	71mm
gms	180	186	251
Product Code	V1039411	V1039421	V1039431

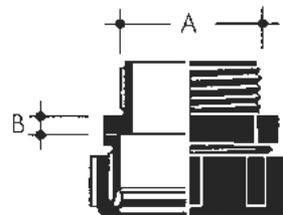


(W3921 only)

**W14 M.I. to Pipe Coupler**

With standard BSP parallel threads the W14 Pipe Coupler can be screwed direct into the F.I. fittings of metal or plastic pipes.

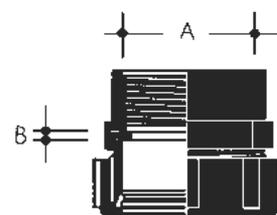
Cat. No.	W141	W142
Nom. Size	38mm	51mm
A	1 1/2" BSP	2" BSP
B	6mm	6mm
gms	31	53
Product Code	V1014101	V1014201



**W15 F.I. to Pipe Coupler**

With standard BSP parallel threads the W15 Pipe Coupler can be screwed directly to M.I. ends of metal or plastic pipes. The 38mm unit can be screwed to the threaded tail of a waste or drip cup when a pipe connection is required. The 51mm unit can be screwed to the threaded tail of a 51mm waste.

Cat. No.	W151	W152
Nom. Size	38mm	51mm
A	1 1/2" BSP	2" BSP
B	3mm	3mm
gms	35	52
Product Code	V1015101	V1015201



**W121 1 1/4" F.I. x 1 1/2" M.I. BSP Reducer**

Note: Used when joining the Vulcathene mechanical system to a 1 1/4" BSP waste tail. When making a connection to pipe a W151 38mm F.I. coupler should first be added to the outlet of a W121 reducer. Alternatively, the outlet of W121, which has a standard 1 1/2" BSP parallel thread, will accept the connecting nut of any of the Vulcathene traps illustrated in this catalogue.

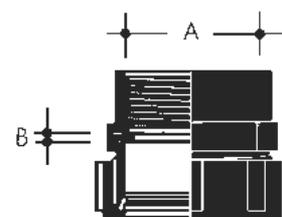
Cat. No.	W121
Nom. Size	38mm
A	32mm
gms	27
Product Code	V1012101



**W271 1 3/4" F.I. to Pipe Coupler**

Made in one size only, this fitting should be used when joining 38mm Vulcathene Mechanical pipe to 38mm Vulcathene Polyfusion pipe. It may also be screwed to the outlet of any Vulcathene Polyfusion trap to provide a connection for 38mm Mechanical pipe.

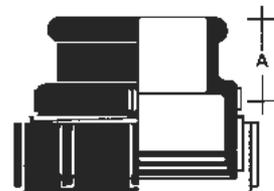
Cat. No.	W271
Nom. Size	38mm
A	1 3/4" BSP
B	5mm
gms	32
Product Code	V1027101



**W45 Glass Adaptor**

Used when jointing the Vulcathene mechanical system to a glass drainage system. Available in Flame Retardant Polypropylene (FRPP) only.

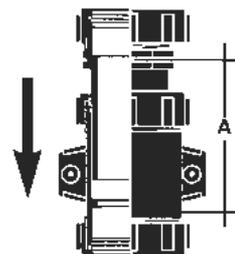
Cat. No.	W451	W452	W453	W454
Nom. Size	38mm	51mm	76mm	102mm
A	28mm	31mm	44mm	44mm
gms	37	63	192	317
Product Code	V1045104	V1045204	V1045304	V1045404



**W801 Thermal Stress Relief Unit**

The W801 can be installed either vertically or horizontally. When installed it is important to ensure that the end with the moulded fixing clip is the outflow end of the fitting.

Cat. No.	W801
Nom. Size	38mm
A min	70mm
A max	108mm
Product Code	V1011101



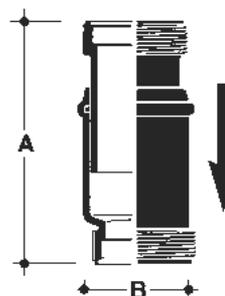
**W802 Thermal Stress Relief Unit**

The W802 can be installed either vertically or horizontally. When installed it is important to ensure that the end which forms the collar is the outflow end of the fitting.

With BSP threaded ends, the W802 SRU is supplied with W132 F.I. to Pipe Couplers at each end.

The unit must be anchored with a metal clamp which should be located round the body of the SRU, just below the ridge round the top of the collar. This allows the pipe inserted into the collar to move freely.

Cat. No.	W802
Nom. Size	51mm
A min	149mm
A max	203mm
B	73mm
gms	243
Product Code	V5452201



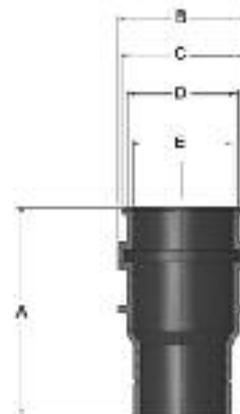
**W803/W804 Thermal Stress Relief Unit**

The W803 and W804 unit can be installed either vertically or horizontally. When installed it is important to ensure that the spigot end is the outflow end of the fitting.

The unit must be anchored with a metal clamp which should be located on top of the moulded locators round the body of the SRU, which then allows the pipe inserted into the collar to expand and contract.

The body of the SRU incorporates an O-ring seal.

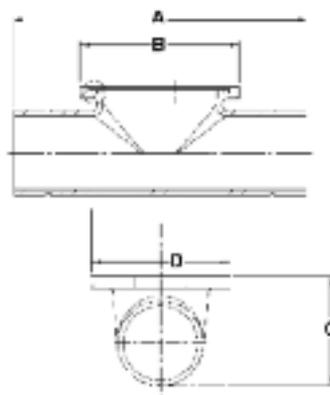
Cat. No.	W803	W804
Nom. Size	76mm	102mm
A	196mm	215mm
B	117.2mm	144.5mm
C	110mm	141mm
D	101.7mm	129mm
E	89.7mm	115mm
gms	575	900
Product Code	V1080301	V1080401



W90 Access Pipes

Correctly sited at critical points in the pipeline, access pipes simplify the clearing of blockages, inspection and thorough cleansing of the installation. With a clear flow bore, the W90 series access pipes have a bolt on cover and grooved spigot ends to accept nut and olive connection to the Vulcathene Mechanical System.

Cat. No.	W902	W903	W904
Nom. Size	51mm	76mm	102mm
A	260mm	302mm	390mm
B	164.2mm	164.2mm	218.6mm
C	114.4mm	114.4mm	138.8mm
D	145mm	145mm	179mm
Product Code	V1090201	V1090301	V1090401

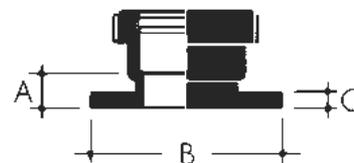


W100 BS Table D Flange (Undrilled)

This allows the removal of complete pipe sections for ease of maintenance. It can also be used when connected to another BS Table D Flange.

The BS Table D Flanges should be clamped together with a nitrile gasket and 4 x M20 bolts.

Cat. No.	W101T.D	W102T.D	W103T.D	W104T.D
Nom. Size	38mm	51mm	76mm	102mm
A	30mm	30mm	41mm	41mm
B	133mm	152mm	187mm	216mm
C	16mm	16mm	19mm	19mm
gms	300	409	1500	2087
Product Code	V1010101	V1010201	V1010301	V1010401



W22 Olive

The new flexible no heat Vulcathene olive locates into a groove, cut into the pipe using the cutting tool W26, by means of a 'tongue' around its inner surface. This simple, yet highly effective olive is then forced into the space between the pipe and the fitting as the nut is tightened thus forming a highly effective liquid tight seal.

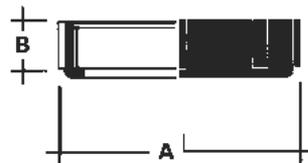
Cat. No.	W221	W222	W223	W224
Nom. Size	38mm	51mm	76mm	102mm
gms	2	3	51	91
Product Code	V1022111	V1022211	V1022311	V1022411



W23 Nut

Vulcathene nuts are used in conjunction with the Vulcathene olive to make a watertight joint. Every Vulcathene Mechanical fitting is supplied complete with Vulcathene nuts. We recommend that Vulcathene lubricant is smeared on the thread to facilitate tightening of the joint using the purpose-designed W36 spanner.

Cat. No.	W231	W232	W233	W234
Nom. Size	38mm	51mm	76mm	102mm
A	67mm	83mm	134mm	162mm
B	21mm	25mm	33mm	35mm
gms	58	100	250	520
Product Code	V1023101	V1023201	V1023301	V1023401



**W24 Blanking-Off Plug**

Made to suit all pipe sizes, blanking-off plugs should be used where a rodding point is required in the waste pipe run and also for blanking off inlets of a W612 Dilution Recovery Trap. With its own tapered sealing surface, it replaces the olive, and is held into the fitting by the nut.

Cat. No.	W241	W242	W243	W244
Nom. Size	38mm	51mm	76mm	102mm
gms	38	64	109	196
Product Code	V1024101	V1023301	V1024301	V1024401



**W26 Groove Cutting Tool**

Vulcathene grooving tools enable a groove, of the exact depth and width, to be cut in the correct location from the end of the pipe where the mechanical olive is then located.

Cat. No.	W261	W262	W263	W264
Nom. Size	38mm	51mm	76mm	102mm
gms	100	146	368	719
Product Code	V1026101	V1026201	V1026301	V1026401



38/51mm



76/102mm

**W36 Spanner**

This moulded polycarbonate spanner is made specifically for use with the Vulcathene Mechanical range and should always be used to tighten the Vulcathene nuts as it will not distort or damage the nuts in the process of achieving a secure joint.

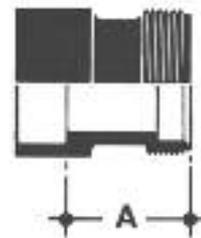
Cat. No.	W361	W362	W363	W364
Nom. Size	38mm	51mm	76mm	102mm
gms	81	110	199	269
Product Code	V1036101	V1036201	V1036301	V1036401



**C130 Half Coupler**

Used to convert 38mm Polyfusion pipe to 38mm Mechanical pipe, the threaded end can be screwed to a W271 1 3/4" pipe coupler to make a mechanical joint.

<b>Cat. No.</b>	<b>C130</b>
Nom. Size	38mm
A	45mm
gms	40
Product Code	V5130101



**P758 BSP Coupler**

Used to convert 38mm or 51mm Polyfusion pipe to Mechanical (or Enfusion) pipe, the BSP threaded end can be screwed to W15 or L15 series female couplers.

<b>Cat. No.</b>	<b>P758</b>
Nom. Size	38mm      51mm
A	35mm      41mm
B	41mm      41mm
gms	36
Product Code	V5758101      V5758201



**R261 Reducing Coupler**

Used to convert 32mm Polyfusion pipe to 38mm Mechanical pipe, the spigot end of the reducer should be fused to the socket of a C130 38mm half coupler and the socket end fused to 32mm Polyfusion pipe.

<b>Cat. No.</b>	<b>R261</b>
Nom. Size	38 x 32mm
A	25mm
Product Code	V5261151



**200 Hand Tool**

Used for making socket fusion joints in the smaller size (32mm-51mm), the tool can be heated to the required temperature using a gas torch.

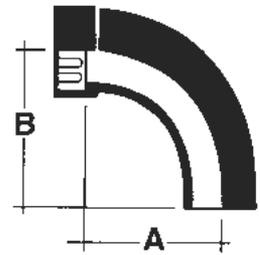
	Product Code
32mm	V440050
38mm	V440010
51mm	V440020



**L28 Single Socket Long Sweep Bend**

Available in sizes from 38mm to 152mm, this fitting has an Enfusion socket at one end and a plain spigot at the other.

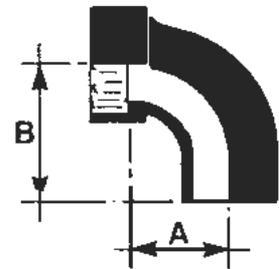
Cat. No.	L281	L282	L283	L284	L286
Nom. Size	38mm	51mm	76mm	102mm	152mm
A	70mm	83mm	103mm	125mm	167mm
B	117mm	117mm	171mm	203mm	247mm
gms	90	170	350	510	2000
Product Code	V6028101	V6028201	V6028301	V6028401	V6028601



**L29 Single Socket Short Sweep Bend**

Available in 38mm and 51mm sizes this fitting has an Enfusion socket at one end and a plain spigot at the other.

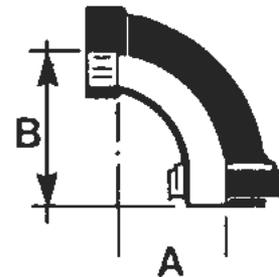
Cat. No.	L291	L292
Nom. Size	38mm	51mm
A	43mm	64mm
B	75mm	97mm
gms	90	120
Product Code	V6029101	V6029201



**L291A Loose Nut/Socket Short Sweep Bend**

Available in 38mm size only, this fitting has a captive nut for connection to Vulcathene threaded units at one end and an Enfusion socket at the other.

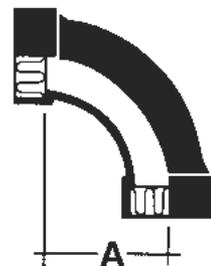
Cat. No.	L291A
Nom. Size	38mm
A	44mm
B	76mm
gms	90
Product Code	V6029111



**L17 Double Socket Long Sweep Bend**

Available in sizes from 38mm to 152mm, this fitting has an Enfusion socket at both ends.

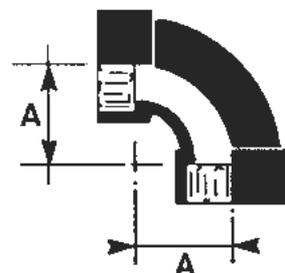
Cat. No.	L171	L172	L173	L174	L176
Nom. Size	38mm	51mm	76mm	102mm	152mm
A	70mm	83mm	103mm	125mm	198mm
gms	101	170	390	530	1760
Product Code	V6017101	V6017201	V6017301	V6017401	V6017601



**L18 Double Socket Short Sweep Bend**

Available in 38mm and 51mm sizes, this fitting has Enfusion sockets at both ends.

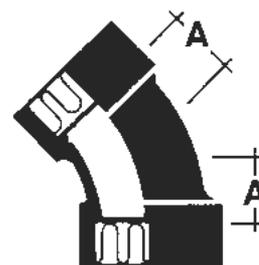
Cat. No.	L181	L182
Nom. Size	38mm	51mm
A	43mm	64mm
gms	115	172
Product Code	V6018101	V6018201



**L19 45° Double Socket Slow Bend**

Five standard sizes cover the 38mm to 152mm range, with an Enfusion socket at each end.

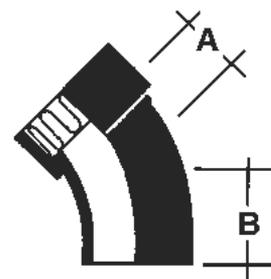
Cat. No.	L191	L192	L193	L194	L196
Nom. Size	38mm	51mm	76mm	102mm	152mm
A	19mm	38mm	51mm	51mm	43mm
gms	80	120	300	520	1500
Product Code	V6019101	V6019201	V6019301	V6019401	V6019601



**L21 45° Single Socket Slow Bend**

Available in five sizes to suit standard 38mm to 152mm pipe the fitting has an Enfusion socket at one end and a plain spigot at the other end.

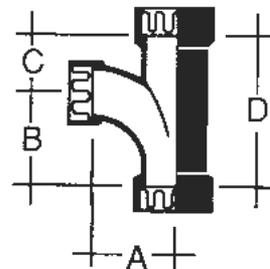
Cat. No.	L211	L212	L213	L214	L216
Nom. Size	38mm	51mm	76mm	102mm	152mm
A	19mm	38mm	51mm	51mm	43mm
B	38mm	76mm	95mm	100mm	114mm
gms	80	130	260	450	1450
Product Code	V6021101	V6021201	V6021301	V6021401	V6021601



**L20 92<sup>1</sup>/<sub>2</sub>° Equal Sweep Tee**

An equal three branch fitting, the sweep tee is available in four sizes from 38mm to 102mm and has an Enfusion socket on each branch.

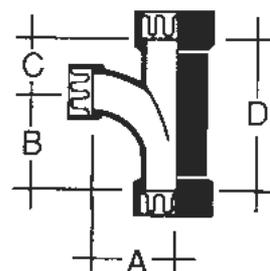
Cat. No.	L201	L202	L203	L204
Nom. Size	38mm	51mm	76mm	102mm
A	57mm	59mm	79mm	98mm
B	70mm	59mm	78mm	98mm
C	51mm	35mm	46mm	57mm
D	121mm	94mm	124mm	156mm
gms	103	220	560	1300
Product Code	V6020101	V6020201	V6020301	V6020401



**L20 92<sup>1</sup>/<sub>2</sub>° Reducing Sweep Tee**

The range of five fittings covers all reducing branch requirements and have an Enfusion socket on each of the three branches. When ordering, the first two dimensions on the chart below relate to the straight through bore, and the third to the branch diameter.

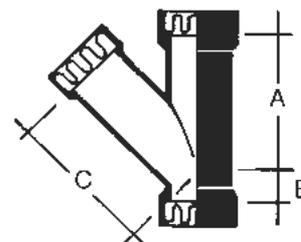
Cat. No.	L2021	L2031	L2032	L2042
Nom. Size	51x51x38mm	76x76x38mm	76x76x51mm	102x102x51mm
A	57mm	114mm	83mm	100mm
B	70mm	90mm	83mm	52mm
C	51mm	65mm	70mm	28mm
D	121mm	152mm	152mm	81mm
gms	140	500	510	550
Product Code	V6020211	V6020311	V6020321	V6020421



**L37 45° Single Wye**

Covering the sizes from 38mm to 152mm all branches have an Enfusion socket.

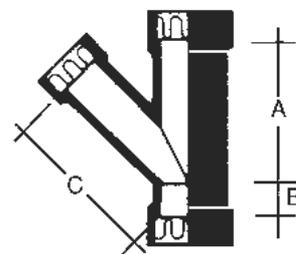
Cat. No.	L371	L372	L373	L374	L376
Nom. Size	38mm	51mm	76mm	102mm	152mm
A	83mm	92mm	127mm	212mm	214mm
B	29mm	36mm	41mm	46mm	44mm
C	83mm	92mm	127mm	187mm	214mm
gms	200	240	550	1100	3630
Product Code	V6037101	V6037201	V6037301	V6037401	V6037601



**L37 45° Reducing Wye**

A range of 8 fittings covering most requirements. For ordering the first two dimensions shown on the chart below relate to the straight through bore and the third the branch diameter. All branches have an Enfusion socket.

Cat. No.	L3721	L3731	L3732	L3742	L3743
Nom. Size	51x51x38mm	76x76x38mm	76x76x51mm	102x102x51mm	102x102x76mm
A	84mm	144mm	144mm	165mm	211mm
B	27mm	22mm	22mm	10mm	46mm
C	87mm	178mm	146mm	165mm	235mm
gms	170	700	520	814	1500
Product Code	V6037211	V6037311	V6037321	V6037421	V6037431

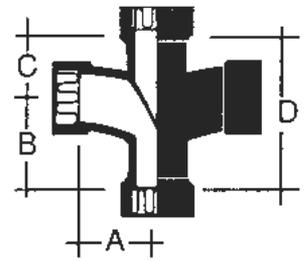


Cat. No.	L3762	L3763	L3764
Nom. Size	152x152x51mm	152x152x76mm	152x152x102mm
A	214mm	214mm	214mm
B	44mm	44mm	44mm
C	262mm	262mm	214mm
gms	2350	2360	2360
Product Code	V6037621	V6037631	V6037641

**L35 92<sup>1</sup>/<sub>2</sub>° Double Branch**

An equal four branch fitting, the double branch is available in three sizes from 51mm to 102mm and has an Enfusion socket on each branch.

Cat. No.	L352	L353	L354
Nom. Size	51mm	76mm	102mm
A	58mm	78mm	98mm
B	59mm	79mm	98mm
C	35mm	46mm	57mm
D	93mm	124mm	156mm
gms	370	650	900
Product Code	V6035201	V6035301	V6035401

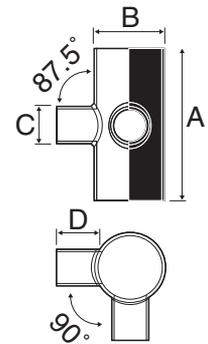


**L942 90° Corner Branch\***

The 90° Corner branch is available in size 102mm x 51mm with spigot ends for either Enfusion or Mechanical jointing. The 51mm branches are at 92<sup>1</sup>/<sub>2</sub>° to the main bore. Additional Enfusion couplers are required for Enfusion jointing unless connecting to another Vulcathene Enfusion fitting. For 38mm branch connections use Vulcathene L3912 reducers.

\*Fabricated

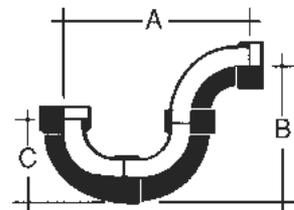
Cat. No.	W942
Sizes	102mm x 51mm
A	250mm
B	114.3mm
C	60.3mm
D	62.9mm
gms	480
Product Code	V1094201



**LT1 'P' Trap**

Available in 76, 102 and 152mm sizes, supplied as three loose components.

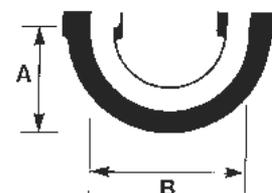
Cat. No.	LT13	LT14	LT16
Nom. Size	76mm	102mm	152mm
A	376mm	360mm	651mm
B	290mm	445mm	533mm
C	160mm	195mm	292mm
gms	1200	1700	7200
Product Code	V6001301	V6001401	V6001601



**L101 U Bend**

Available in 38mm and 51mm sizes, this fitting has Enfusion sockets at both ends. A 'P' trap configuration can be made by adding an L28 single socket sweep bend.

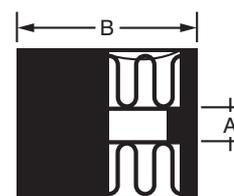
Cat. No.	L1011	L1012
Nom. Size	38mm	51mm
A	57mm	87mm
B	82mm	125mm
gms	150	200
Product Code	V6010111	V6010121



**L16 Coupling**

Produced to fit the five sizes of the Enfusion chemical waste drainage system, from 38mm to 152mm, the coupling has an internal stop which forms a smooth through-bore and ensures that the correct depth of pipe is inserted into the fitting.

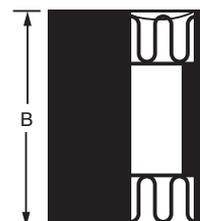
Cat. No.	L161	L162	L163	L164	L166
Nom. Size	38mm	51mm	76mm	102mm	152mm
A	6mm	8mm	11mm	11mm	13mm
B	61mm	74mm	102mm	127mm	183mm
gms	50	80	300	510	640
Product Code	V6016101	V6016201	V6016301	V6016401	V6016601



**L16 (S) Slip Coupling**

Enfusion slip couplers in sizes 102mm and 152mm can be used where a new branch connection to an existing Vulcathene stack is required.

Cat. No.	L164(S)	L166(S)
Nom. Size	102mm	152mm
B	150mm	150mm
gms	646	930
Product Code	V6716401	V6416601



**L39 Reducing Coupler**

This range covers the requirement for changing from one pipe size to another. Designed with an Enfusion socket on one end and the other spigot end is fused into a larger Enfusion socket.

Cat. No.	L3912	L3923	L3924
Nom. Size	51x38mm	76x51mm	102x51mm
A	32mm	43mm	51mm
gms	44	160	239
Product Code	V6039121	V6039231	V6039241

Cat. No.	L3934	L3946
Nom. Size	102x76mm	152x102mm
A	47mm	64mm
gms	214	620
Product Code	V6039341	V6039461



**Note:** 76mm x 38mm reducer: Use L3923 reducer + L3912 reducer  
 102mm x 38mm reducer: Use L3924 reducer + L3912 reducer  
 152mm x 38mm reducer: Use L3946 reducer + L3924 reducer + L3912 reducer  
 152mm x 51mm reducer: Use L3946 reducer + L3924 reducer  
 152mm x 76mm reducer: Use L3946 reducer + L3934 reducer

**L14 M.I to Pipe Coupler**

In two sizes, 38mm and 51mm, this fitting has an Enfusion socket on one end and a male thread the other.

Cat. No.	L141	L142
Nom. Size	38mm	51mm
A	6mm	6mm
gms	30	60
Product Code	V6014101	V6014201



**L15 F.I to Pipe Coupler**

In two sizes, 38mm and 51mm, this fitting has an Enfusion socket on one end and a female thread the other.

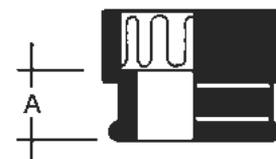
Cat. No.	L151	L152
Nom. Size	38mm	51mm
A	8mm	8mm
gms	70	100
Product Code	V6015101	V6015201



**L45 Glass Adaptor**

Produced in flame retardant PP in four sizes from 38mm to 102mm, the fitting has an Enfusion socket on one end and a beaded spigot on the other.

Cat. No.	L451	L452	L453	L454
Nom. Size	38mm	51mm	76mm	102mm
A	28mm	32mm	41mm	36mm
gms	40	66	400	665
Product Code	V6045104	V6045204	V6045304	V6045404

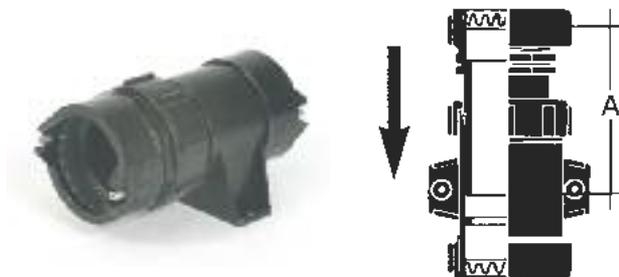


**L801 Thermal Stress Relief Unit**

Designed for use with 38mm diameter pipe, the L801 can be installed in either vertical or horizontal pipework. When installed it is important to ensure that the end with the moulded fixing clip is the outflow end of the fitting.

When installing a stress relief unit, the tail end pipe should be pushed fully 'home' and its position marked. It should then be withdrawn 38mm.

<b>Cat. No.</b>	<b>L801</b>
Nom. Size	38mm
A min	70mm
A max	108mm
Product Code	V6080101



**L802 Thermal Stress Relief Unit**

Designed for use with 51mm diameter pipe, the L802 can be installed in either vertical or horizontal pipework. When installed it is important to ensure that the end which forms the collar is the outflow end of the fitting.

The unit must be anchored with a metal clamp which should be located round the body of the stress relief unit, just below the ridge round the top of the collar. This allows the pipe inserted into the collar to expand and contract.

<b>Cat. No.</b>	<b>L802</b>
Nom. Size	51mm
A min	149mm
A max	203mm
B	73mm
gms	750
Product Code	V6080201



**L803/4/6 Thermal Stress Relief Unit**

Designed for use on 76mm, 102mm and 152mm diameter pipes this unit can be installed in either vertical or horizontal pipework. When installed it is important to ensure that the spigot end is on the outflow end of the fitting. The unit must be anchored with a metal clamp which should be located on top of the moulded locators, moulded round the body of the stress relief unit, which then allows the pipe inserted into the collar to expand and contract. **Note:** The body of the SRU incorporates an 'O' ring seal.

Cat. No.	L803	L804	L806
Nom. Size	76mm	102mm	
A	198mm	215mm	198mm
B	117.2mm	144.5mm	200.5mm
C	110mm	141mm	196mm
D	101.7mm	129mm	184.5mm
E	89.7mm	115mm	169.5mm
gms	575	900	
Product Code	V1080301	V1080401	V6080601



**L902/3/4 Access Pipe**

Correctly sited at critical points in the pipeline, access pipes simplify clearing blockages, inspection and thorough cleansing of the installation. With a clear flow bore, the L90 series has a bolt on cover and spigot ends for fusion to enfusion sockets.

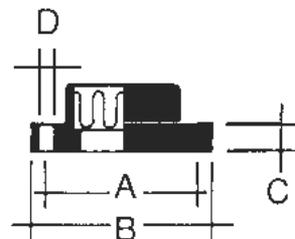
Cat. No.	L902	L903	L904
Nom. Size	51mm	76mm	102mm
A	260mm	302mm	390mm
B	164.2mm	164.2mm	218.6mm
C	114.4mm	114.4mm	138.8mm
D	145mm	145mm	179mm
Product Code	V1090201	V1090301	V1090401



**L36 Flange**

To fit pipe sizes from 38mm to 152mm, the flange is supplied (Table D) drilled or undrilled. Flanges should be clamped together with a nitrile gasket and 4 M20 bolts.

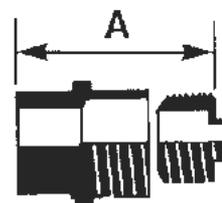
Cat. No.	L361	L362	L363	L364	L366
Nom. Size	38mm	51mm	76mm	102mm	152mm
A	98mm	114mm	146mm	178mm	235mm
B	127mm	150mm	189mm	228mm	278mm
C	16mm	18mm	23mm	28mm	25mm
D	14mm	17mm	17mm	17mm	17mm
gms	280	310	600	780	1768
Product Code (Drilled)	V6036101	V6036201	V6036301	V6036401	V6036601
Product Code (Undrilled)	V6040101	V6040201	V6040301	V6040401	V6040601



**L24 Cleanout Plug**

A simple method for draining or rodding a blocked section, the Cleanout is available to suit pipe sizes from 38mm to 102mm. The fitting comprises of a spigot which can be fused into an Enfusion socket and a threaded plug. The A dimension shows the disassemble length with a clearance allowance of 13mm. Wrap PTFE tape around the thread of the plug to make a seal.

Cat. No.	L241	L242	L243	L244
Nom. Size	38mm	51mm	76mm	102mm
A	160mm	185mm	185mm	210mm
gms	140	150	280	480
Product Code	V6024101	V6024201	V6024301	V6024401



**Note:** For 152mm cleanout, use an L3946 reducer with an L244 cleanout plug.

## L2610 Link Cable

Link cable leads in 5' lengths for multiple jointing.

Product Code C53EN003



## L261 Clamp

Available in six sizes for 38mm to 152mm fittings, these stainless steel clamps should be fitted over the hubs of the Enfusion sockets and tightened before electrofusion welding.

Sizes:	Product Code
38mm	V6261014
51mm	V6261024
76mm	V6261034
102mm	V6261044
152mm	V6261064



## L2601 Enfusion Hand Held Unit

(See specification details on page 42)

Product Code V6ECU001



## Pipe Scraper

Pipe should be thoroughly scraped over an area equal to socket depth plus 50% using a pipe scraper. Replacement blades (2 per packet) are supplied separately.

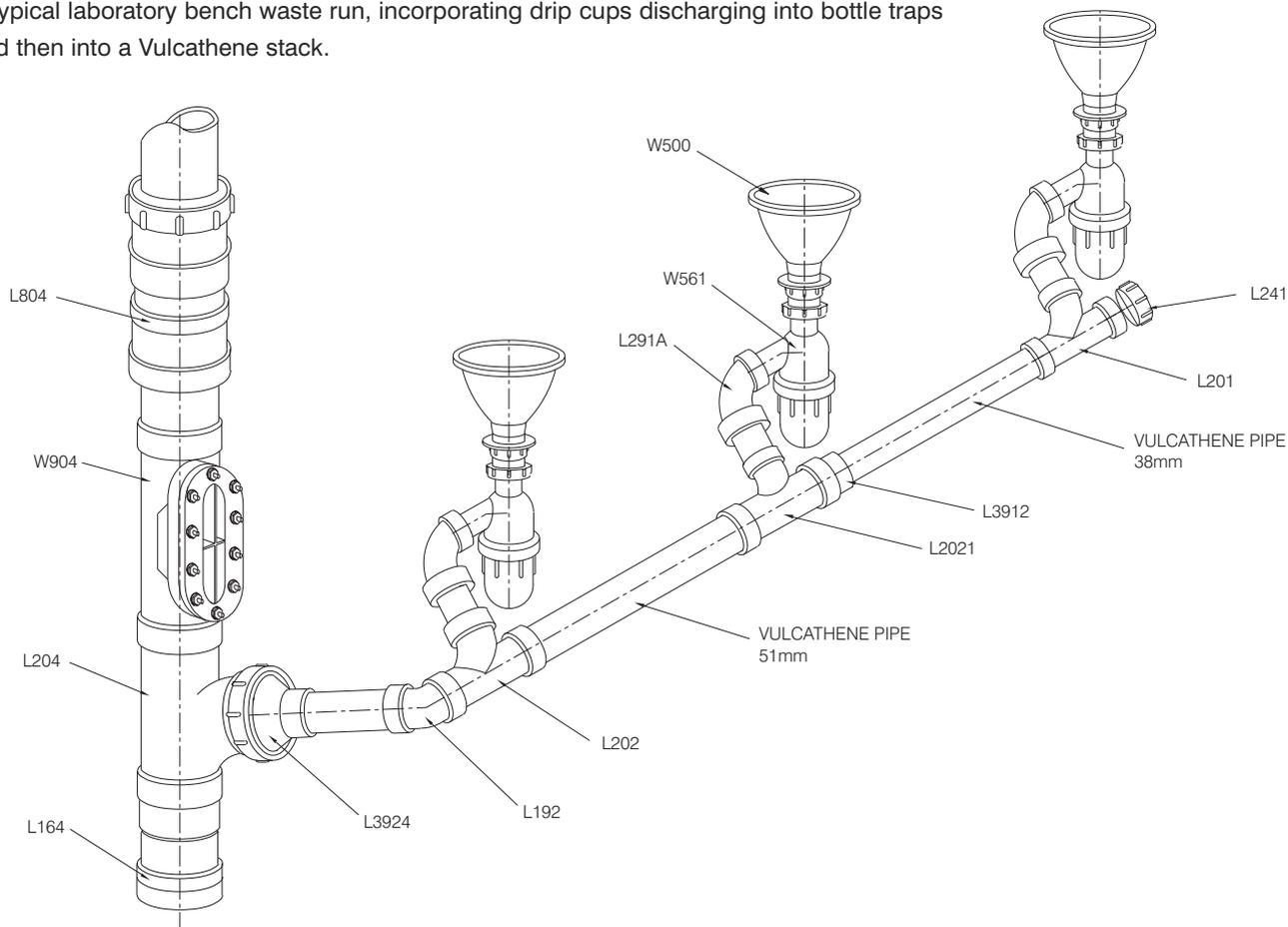
Product Code C53M5001 Pipe Scraper  
C53M5002 Replacement Blades



# Vulcathene Chemical Waste Drainage System

## Enfusion Drainage Design

A typical laboratory bench waste run, incorporating drip cups discharging into bottle traps and then into a Vulcathene stack.



# Vulcathene Chemical Waste Drainage System

## Connection to other Pipework

### Vulcathene Mechanical/Enfusion

Vulcathene Enfusion and Mechanical are fully compatible offering total versatility to the designer/installer of chemical waste drainage systems.

### Vulcathene Polyfusion

Vulcathene's original and first thermoplastic pipework system for chemical waste has been replaced by Vulcathene Enfusion, for installations where a welded drainage system is preferred.

### To connect Polyfusion to Mechanical

A W271 1<sup>3</sup>/<sub>4</sub>" F.I. pipe coupler should be used when joining 38mm Vulcathene Mechanical pipe to 38mm Vulcathene Polyfusion pipe. The F.I. thread of a W271 can be screwed to the M.I. thread of a Polyfusion C130 38mm half coupler which is then socket fused to Polyfusion pipe.

The W271 may also be screwed to the outlet of any Vulcathene Polyfusion trap to provide a connection for 38mm Vulcathene Mechanical pipe.

Polyfusion pipe sizes 51mm - 102mm should be treated as Mechanical, i.e. groove the pipe, place an olive in the groove, lubricate the fitting thread and tighten the nut.

### To connect Polyfusion to Enfusion:

Use Vulcathene BS Table D flanges. Polyfusion and Enfusion cannot be jointed together using socket or electrofusion jointing methods due to the incompatibility of the materials used.

### Other Plastic and Metal Materials

W14, W15, L14 and L15 range of pipe couplers have standard BSP parallel threads and can be screwed directly to the M.I. and F.I. ends of metal or plastic pipes.

Where a BSP connection is not possible, use Vulcathene BS Table D flanges.

### Borosilicate Glass

Vulcathene to glass adaptors are available from 38mm to 102mm.

### Cast Iron

Use Vulcathene BS Table D Flanges.

### Stoneware

When it is intended to insert Vulcathene pipe directly into a collar or socket of another material the following procedure should be adopted. Roughen or score the pipe end with a suitable tool - a coarse file - to provide a suitable 'key'. Pack the socket half full with rope and follow by caulking with acid-resistant cement or a proprietary brand of sealing compound until level with the bead of the collar.

### Flexible Couplers and Adaptors

Flexible couplers and adaptors can be used to connect Vulcathene to other pipe materials.



**W16**  
Line Coupler



**L16**  
Line Coupler



**L36**  
Enfusion Flange



**W100**  
BS Table D Flange



**W271**  
1<sup>3</sup>/<sub>4</sub>" F.I. to Pipe Coupler



**C130**  
Half Coupler



**W14**  
BSP Coupler



**W15**  
BSP Coupler



**W45**  
Glass Adaptor



**L45**  
Glass Adaptor



**L14**  
BSP Coupler



**L15**  
BSP Coupler



**AC1221/1361**  
**AC5144/1362**  
Flexible Adaptor Coupling

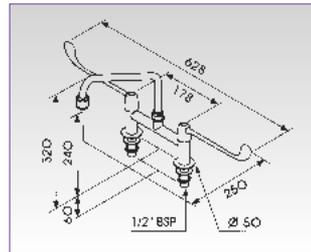


**DC95/DC115**  
Flexible Drain Couplings

**VG810078**

Mixer tap with swivel swanneck and wrist action handles on 178mm centres with aerator

gms 2001



**VG800310**

Monobloc single handle mixer with swivel swanneck with aerator

gms 1590

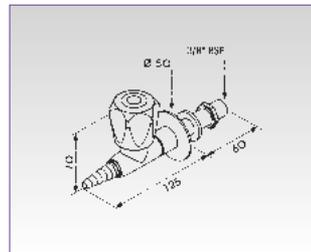


**Water Service Controls** Wall/Pendant Mounted

**VG800815**

In line tap with serrated nozzle outlet

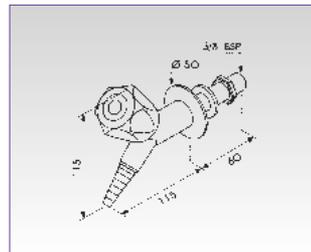
gms 440



**VG800084**

Bib tap with serrated nozzle outlet

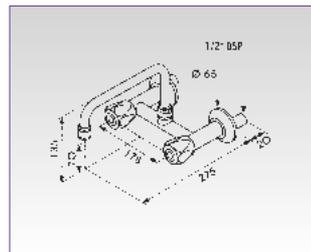
gms 420



**VG801078**

Mixer swanneck, 178mm adjustable centres with aerator

gms 1410



**VG800416**

Two way in line taps with serrated nozzle outlet

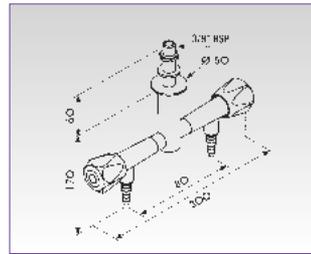
gms 920



**VG810202**

Two way angle tap at 180° with serrated nozzle outlet

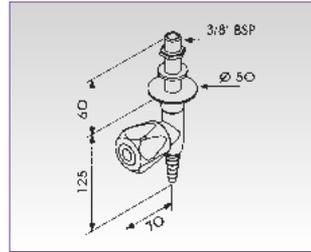
gms 1220



**VG800815**

In line tap with serrated nozzle outlet

gms 440

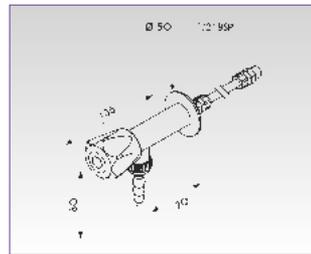


**Treated Water Service Controls**

**VG800298**

Angle tap with removable nozzle, 1/2" outlet, inlet 1/4" BSP and 500mm 8 x 1 PP tube

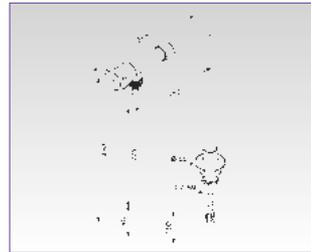
gms 180



**VG800299**

Bib tap with removable nozzle, 1/2" outlet, inlet 1/4" BSP and 500mm 8 x 1 PP tube

gms 570

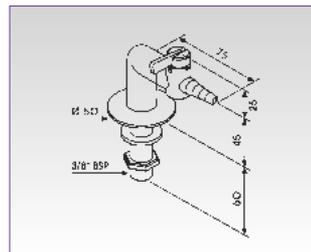


**Drop Lever Gas Taps Bench/Wall Mounted**

**VG800031**

One way drop lever gas tap (Anti-rotation pin)

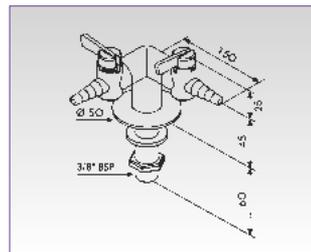
gms 300



**VG800033**

Two way, 90° drop lever gas tap (Anti-rotation pin)  
Two way, 180° drop lever gas tap also available VG800032

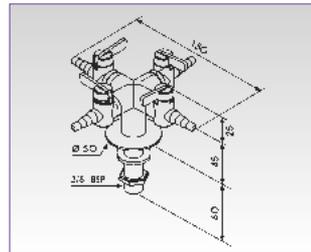
gms 420



**VG800034**

Four way drop lever gas tap (Anti-rotation pin)

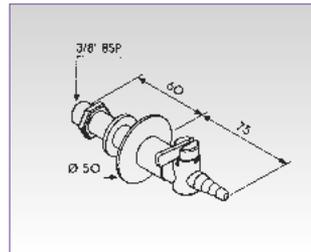
gms 700



**VG800035**

One way wall mounted drop lever gas tap (Anti-rotation pin)

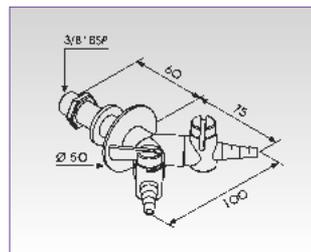
gms 260



**VG800036**

Two way wall mounted drop lever gas tap (Anti-rotation pin)

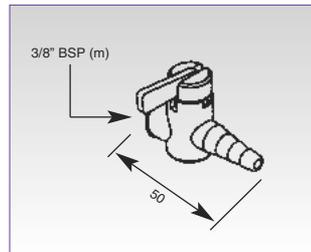
gms 390



**VG800030**

One way wall mounted (replacement) drop lever gas tap

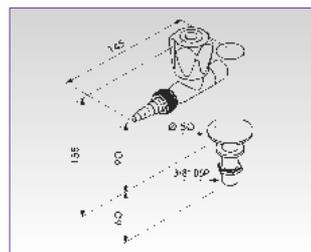
gms 250



**Dry Service Controls Bench Mounted**

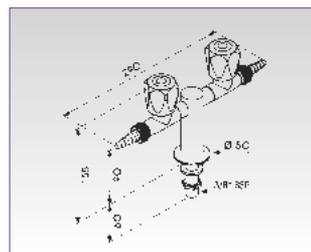
**VG800401/501/601/701/801**

Single valve with fixed serrated nozzle outlet  
 VG800401/vacuum  
 VG800501/compressed air  
 VG800601/nitrogen  
 VG800701/natural gas  
 VG800801/other pressure gases (please specify)  
 gms 750



**VG800402/502/602/702/802**

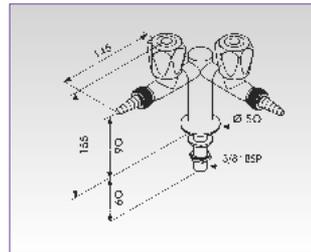
Two way valve at 180° with fixed serrated nozzle outlets  
 VG800402/vacuum  
 VG800502/compressed air  
 VG800602/nitrogen  
 VG800702/natural gas  
 VG800802/other pressure gases (please specify)  
 gms 1020



**VG800403/503/603/703/803**

Two way valve at 90° with fixed serrated nozzle outlets  
 VG800403/vacuum  
 VG800503/compressed air  
 VG800603/nitrogen  
 VG800703/natural gas  
 VG800803/other pressure gases (please specify)

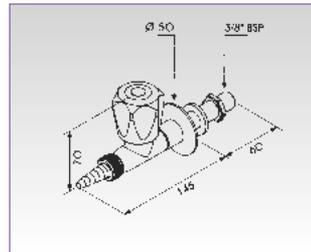
gms 1000



**Dry Service Controls** Wall/Pendant Mounted

**VG800841/851/861/871/881**

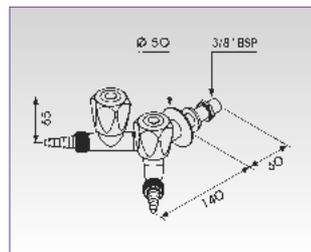
In line tap with fixed serrated nozzle outlet  
 VG800841/vacuum  
 VG800851/compressed air  
 VG800861/nitrogen  
 VG800871/natural gas  
 VG800881/other pressure gases (please specify)  
 gms 460



**VG800843/853/863/873/883**

Two way in line tap with fixed serrated nozzle outlets  
 VG800843/vacuum  
 VG800853/compressed air  
 VG800863/nitrogen  
 VG800873/natural gas  
 VG800883/other pressure gases (please specify)

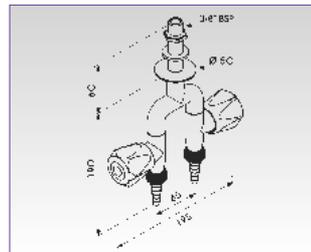
gms 790



**VG800442/452/462/472/482**

Two way in line tap with fixed nozzle outlets  
 VG800442/vacuum  
 VG800452/compressed air  
 VG800462/nitrogen  
 VG800472/natural gas  
 VG800482/other pressure gases (please specify)

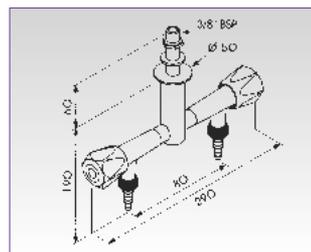
gms 970



**VG810402/502/602/702/802**

Two way angle tap at 180° with fixed serrated nozzle outlets  
 VG800402/vacuum  
 VG800502/compressed air  
 VG800602/nitrogen  
 VG800702/natural gas  
 VG800802/other pressure gases (please specify)

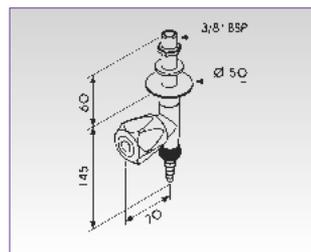
gms 1210



**VG800841/851/861/871/881**

In line tap with fixed serrated nozzle outlet  
 VG800841/vacuum  
 VG800851/compressed air  
 VG800861/nitrogen  
 VG800871/natural gas  
 VG800881/other pressure gases (please specify)

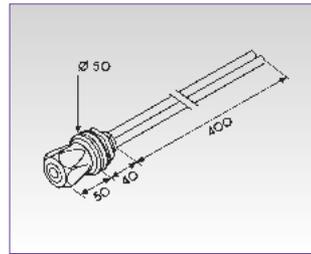
gms 460



**Remote Control Valves and Outlets**

**VG801701/704/705/702/703/706**

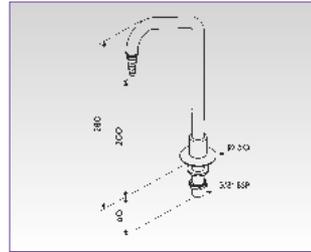
Front control valve, inlet and outlet copper tube 10 x 1  
 VG801701/cold water  
 VG801704/vacuum  
 VG801705/compressed air  
 VG801702/nitrogen  
 VG801703/natural gas  
 VG801706/other pressure gases (please specify)  
 gms 520



**VG800710**

Fixed swanneck with fixed serrated nozzle outlet

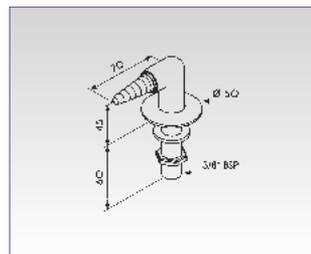
gms 790



**VG800909/910/911/912/913/914**

Bench or wall outlet with fixed serrated nozzle outlet  
 VG800909/cold water  
 VG800910/vacuum  
 VG800911/compressed air  
 VG800912/nitrogen  
 VG800913/natural gas  
 VG800914/other pressure gases (please specify)

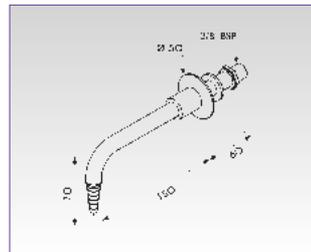
gms 300



**VG800706**

Wall outlet with fixed serrated nozzle outlet

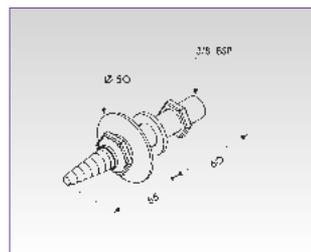
gms 330



**VG800920/921/922/923/924/925**

Wall outlet with fixed serrated nozzle outlet  
 VG800920/cold water  
 VG800921/vacuum  
 VG800922/compressed air  
 VG800923/nitrogen  
 VG800924/natural gas  
 VG800925/other pressure gases (please specify)

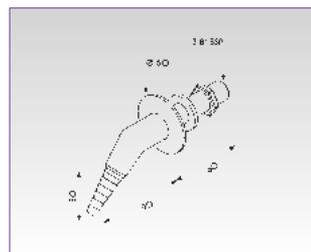
gms 250



**VG800930/931/932/933/934/935**

Angle wall outlet with fixed serrated nozzle outlet  
 VG800930/cold water  
 VG800931/vacuum  
 VG800932/compressed air  
 VG800933/nitrogen  
 VG800934/natural gas  
 VG800935/other pressure gases (please specify)

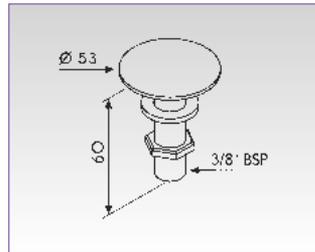
gms 300



**Accessories and Parts**

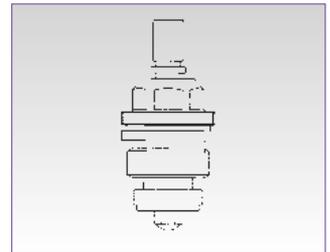
**VG801070**

Blind flange



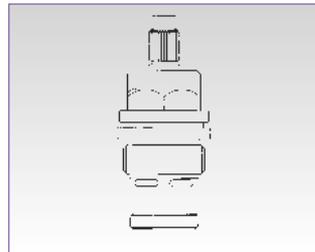
**VG950148**

Standard water headwork



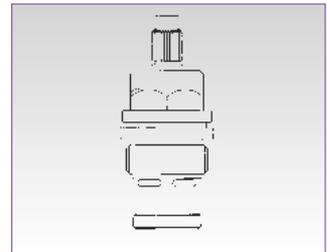
**VG950151**

Plastic headwork for treated waters



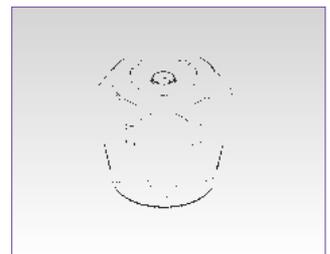
**VG950153**

Valve for dry services



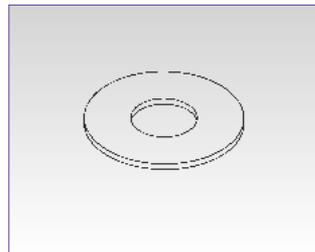
**VG960200/206/201/202/203/204/205**

Handwheel  
 VG960200/cold water  
 VG960206/treated water  
 VG960201/vacuum  
 VG960202/compressed air  
 VG960203/nitrogen  
 VG960204/natural gas  
 VG960205/other gases (please specify)



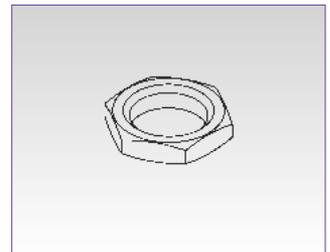
**VG890401/402**

Flange  
 VG890401 for 3/8"  
 VG890402 for 1/2"



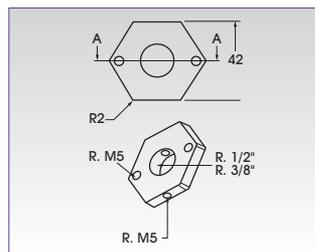
**VG821060/081**

Nut/Washer  
 VG821060 for 3/8"  
 VG821081 for 1/2"



**VG950806/807**

Anti-rotation nut  
 VG950806 for 3/8"  
 VG950807 for 1/2"



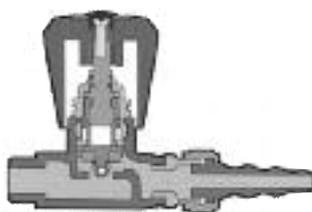
## Water Controls

### Standard Specification

All water controls are supplied with swivel swannecks as standard. All nozzles are serrated and fixed unless otherwise stated. All water controls are supplied with 1/2" BSP 60mm long mounting shank unless otherwise stated. Shanks are provided with flat ends suitable for connection with standard tap connectors or 1/2" female threaded connectors. Anti-rotation pins are incorporated.

### Headwork Assembly

All water control headworks have non rising spindles not in contact with water and a trapezoidal thread which guarantees long service life.



### Mounting

Standard 1/2" water controls require a 22mm diameter hole drilled in the work surface or panel (17mm diameter for 3/8" fittings). A separate 5mm diameter hole on 17mm centres should be drilled for anti-rotation pin. Care should be taken to ensure that the nozzle outlet is in the desired position before drilling. The assembly should be secured using the mounting shank, steel washer and backnut. Sufficient torque should be applied to ensure that the assembly cannot be rotated during use.

### Colour Coding

Handles and service identification indices are colour coded in accordance with DIN EN 13792.



### Water Supply

Mains water or tank supply. The local water board requirements should be checked before connection.

If a venturi jet pump is to be used then a type 'A' air gap should be ensured to prevent contamination. A minimum supply of 1 bar at 5 litres per minute is required for satisfactory performance.

### Testing

Before testing, water systems should be thoroughly flushed with clean water with the valves open to avoid debris entrapment. All water fittings are tested at 150psi before leaving the factory. Installation test pressures should not exceed 120psi.

**Note:** If mains water supply is connected to these controls in a laboratory environment it is critical that a sufficient air gap is always maintained to ensure that there is no back syphonage.

## Treated Water Controls

### Standard Specification

Outlets on treated water controls have removable nozzles. Inlets have 1/2" BSP threaded tail with backnut and washer supplied plus 500mm of 8 x 1 polypropylene tube.

### Mounting

Standard 1/2" water controls require a 22mm diameter hole drilled in the work surface or panel (17mm diameter for 3/8" fittings). Care should be taken to ensure that the nozzle outlet is in the desired position before drilling. The assembly should be secured using the mounting shank, steel washer and backnut. Sufficient torque should be applied to ensure that the assembly cannot be rotated during use. Anti-rotation nuts are available for added security.

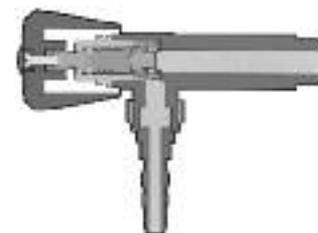
### Colour Coding

In accordance with DIN EN 13792.



### Headwork Assembly

Treated water headworks are made from plastic and incorporate a clutch to prevent overtightening and possible fracture of the headwork.



## Drop Lever Gas Taps

### Standard Specification

All male gas tap assemblies are supplied with a 3/8" BSP (BS2779 G3/8"B) male shank 60mm long. Shanks are supplied with flat ends suitable for connection with either standard tap connectors or 3/8" BSP female threaded connectors. Anti-rotation pins are incorporated.

### Mounting

The male gas tap assembly requires a 17mm diameter hole drilled in the work surface or panel. A separate 5mm diameter hole on 17mm centres should be drilled for anti-rotation pin. Care should be taken to ensure that the outlet nozzles are in a suitable position so that the safety lever has sufficient clearance to function correctly and is clearly visible from a distance.

## Colour Coding

In accordance with DIN EN 13792

## Gas Supplies

Natural gas/LPG gas supplies should be within the range of 20 to 25 Mbars air pressure and supplied by means of either steel or copper tubing.

As with all gas valves and appliances, assemblies should be soundness tested on a regular basis to ensure safety.



## Testing

All drop lever gas tap assemblies are tested to 5psi before leaving the factory. All gas installations incorporating Vultex Labline drop lever gas tap assemblies should not exceed 75 Mbar test pressure to ensure that the sealing and lubricating media is not displaced.

**Note:** Natural gas and LPG gas installations should only be worked on by competent gas engineers, ie.Corgi registered.

## Dry Service Controls

### Standard Specification

All dry service male assemblies are supplied with 3/8" BSP (BS2779 G3/8"B) male shank 60mm long. Shanks are provided with flat ends suitable for connection with either standard tap connectors or 3/8" BSP female threaded connectors. Outlets have fixed serrated nozzles.

### Mounting

Dry service controls require a 17mm diameter hole drilled in the work surface or panel. Care should be taken to ensure that the outlet nozzles are in a suitable position before drilling. The assembly should be secured using the mounting shank, steel lock washer and backnut. Sufficient torque should be applied to ensure that the assembly cannot be rotated during operation. Anti-rotation nuts are available for added security.

### Colour Coding

Handles and service identification indices are colour coded in accordance with DIN EN 13792.

**Note:** Please specify the service required if other than those listed.



### Gas Supplies

Dry service gas supplies should be free of particle contamination. The working pressure should be reduced if possible to the recommendations of BS3202: 1959- 1.4bar - to reduce the risk of hose whip during use. Oxygen valves are specifically constructed and should be kept separate at all times.

## Testing

Before testing, Gas systems should be purged with the valves open with either the service medium or an inert gas such as nitrogen to ensure that any possible residue is cleared without contaminating the valve seat. Oxygen lines should be purged with white spot nitrogen. System test pressures should not exceed the factory soundness test pressure of 120psi.

## Headwork Assembly

The 270 degree turn ceramic headwork combines the advantage of very fine flow control along with full flow characteristics. The valve is suitable for the majority of dry services, including natural gas (please specify OXYGEN services separately). The new headworks are of very high specification and offer very smooth and reliable service. Construction is of brass offering mechanical strength in difficult environments.

## Remote Control Valves

### Mounting

Remote control valves are designed to be mounted on panels with rear access. The maximum panel thickness should not exceed 25mm. A hole of 28mm diameter should be drilled in a suitable location and the valve offered from the rear or front with the handwheel and the front flange removed. Refit the flange applying sufficient torque to ensure the assembly cannot be rotated during use. Position the flow indicator sticker and refit the handwheel.

### Connections

Depending on the fitting requirements, remote control valves should be connected to the inlet and outlet 10mm diameter copper tubes using either compression fittings or solder capillary connectors. Copper tubes are supplied in the fully annealed condition for ease of installation. Care should be taken to ensure tubes are not kinked or the valves overheated during connection.





## Comparison Data

## Vultex Labline

The List below provides a comparison of the Vultex Labline range of laboratory service controls with equivalent fittings from other suppliers.

**Note: The equivalent fittings shown are approximations, i.e. variations occur in height and standout, nozzle options, fixed and swivel necks, colour as well as style.**

Description	Vultex	Broen	Brownall	Marklab
<b>WATER</b>				
Bench mount fixed swanneck r/h	VG800103	18508 009	XL1214C-8M61	85004AC
Bench mount fixed swanneck l/h	VG800101	18508 009	XL1214C-8M71	85004AC
Bench mount swivel swanneck	VG800106	18508 009	XL1204C-8M41	85004AC
Bench mount bib tap	VG800120	18526 009	XL1209C-8M31	85094EC
Bench mount two way bib tap 'Y' configuration	VG801124			85684JC
Bench mount 3 way bib tap/swivel swanneck	VG800126	18506 009	XL1206D-8m31	86004AC
Monobloc mixer aerated nozzle twin control	VG800110	18510 009		85344KM
Mixer tap aerated nozzle 178mm centres	VG800078	08500 009	XL1219C-8M04	85394KM
Mixer tap aerated nozzle 178mm centres wrist action levers	VG810078	08500 009 with 19186 009 & 19187 009	XL1401C-8M84	85404KM
Monobloc mixer aerated nozzle single control	VG800310			
Wall mount in line single water tap	VG800815		XL1202N-0321	
Wall mount bib tap single water	VG800084	18201 009 & 19413 009		
Wall mount swivel swanneck mixer adj. centres	VG800812			
Pendant mount 2 way in line water 'U' configuration	VG800416			
Pendant mount 2 way angle tap water 180 degrees	VG810202	18341 009	XL1242N-3M31	85504JC
<b>TREATED WATER</b>				
Treated water wall mount angle tap poly tube internal	VG800298	15391 009	XL1602N-8M01	85274PD
Treated water bench mount pillar bib tap poly tube internal	VG800299	15385 009	XL1601C-8M01	82774PD
<b>DRY SERVICE</b>				
Bench mount dry service single valve nat. gas	VG800701	18022 009	XC1274-M01	83852P
Bench mount dry service single valve other gas	VG800801	18022 009	XL1274-M01	83852P
Bench mount dry service twin 180 degrees vacuum	VG800402	18021 009	XL1486-M01	83622P
Bench mount dry service twin 180 degrees comp. air	VG800502	18021 009	XL1275-M01	83882P
Bench mount dry service twin 180 degrees nitrogen	VG800602	18021 009	XL1275-M01	83882P
Bench mount dry service twin 180 degrees nat. gas	VG800702	18021 009	XC1275-M01	83882P
Bench mount dry service twin 180 degrees other gas	VG800802	18021 009	XL1275-M01	83882P
Bench mount dry service twin 90 degrees vacuum	VG800403	18025 009	XL1487-M01	83642P
Bench mount dry service twin 90 degrees comp. air	VG800503	18025 009	XL1278-M01	83872P
Bench mount dry service twin 90 degrees nitrogen	VG800603	18025 009	XL1278-M01	83872P
Bench mount dry service twin 90 degrees nat. gas	VG800703	18025 009	XC1278-M01	83872P
Bench mount dry service twin 90 degrees other gas	VG800803	18025 009	XL1278-M01	83872P
Wall mount single dry service in line tap vacuum	VG800841	18020 009 & 19413 009	XL1483-M01	
Wall mount single dry service in line tap comp. air	VG800851	18020 009 & 19413 009	XL1270-M01	
Wall mount single dry service in line tap nitrogen	VG800861	18020 009 & 19413 009	XL1270-M01	
Wall mount single dry service in line tap nat. gas	VG800871	18020 009 & 19413 009	XC1270-M01	
Wall mount single dry service in line gas tap other gas	VG800881	18020 009 & 19413 009	XL1270-M01	
Wall mount 2 way dry service in line 'Y' configuration tap vacuum	VG800843	18004 009	XL1489-M01	83632P
Wall mount 2 way dry service in line 'Y' configuration tap comp. air	VG800853	18004 009	XL1272-M01	83892P
Wall mount 2 way dry service in line 'Y' configuration tap nitrogen	VG800863	18004 009	XL1272-M01	83892P
Wall mount 2 way dry service in line 'Y' configuration tap nat. gas	VG800873	18004 009	XC1272-M01	83892P
Wall mount 2 way dry service in line 'Y' configuration tap other gas	VG800883	18004 009	XL1272-M01	83892P
Pendant mount dry service 2 way in line 'U' configuration vacuum	VG800442			
Pendant mount dry service 2 way in line 'U' configuration comp air	VG800452			
Pendant mount dry service 2 way in line 'U' configuration nitrogen	VG800462			
Pendant mount dry service 2 way in line 'U' configuration nat. gas	VG800472			
Pendant mount dry service 2 way in line 'U' configuration other gas	VG800482			
Pendant mount dry service 2 way angle tap 180 degrees vacuum	VG810402	18029 009	XL1480-M301	83612P
Pendant mount dry service 2 way angle tap 180 degrees comp. air	VG810502	18029 009	XL1281-M301	83992P
Pendant mount dry service 2 way angle tap 180 degrees nitrogen	VG810602	18029 009	XL1281-M301	83992P
Pendant mount dry service 2 way angle tap 180 degrees nat. gas	VG810702	18029 009	XC1281-M301	83992P
Pendant mount dry service 2 way angle tap 180 degrees other gas	VG810802	18029 009	XL1281-M301	83992P
<b>DROP LEVER GAS TAPS</b>				
Drop lever nat. gas tap 3/8 conn.	VG800030	088170 19	XL1254-2D1NG1	87011PG
Drop lever nat. gas tap single wall mount	VG800035	08822 009	XL1256-MD1	87132PG
Drop lever nat. gas tap twin wall mount	VG800036	08816 009	XL1258-MD1	87152PG
Drop lever nat. gas single bench mount	VG800031	08817 009	XL1263-MD1	87032PG
Drop lever nat. gas tap twin 180 degrees bench mount	VG800032	08819 009	XL1264-MD1	87112PG
Drop lever nat. gas tap twin 90 degrees bench mount	VG800033	08818 009	XL1265-MD1	87052PG
Drop lever nat. gas tap 4 way bench mount	VG800034	08820 009	XL1267-MD1	87072PG
<b>REMOTE SERVICE CONTROLS/OUTLETS</b>				
Front control valve water	VG801701	18005 009	XL1112-PS0	88302IC
Front control valve push turn nat. gas	VG801703	15288 009	XC1161-PS0	88322IG
Front control valve vacuum	VG801704	18006 009	XL1181-P550	88322IG
Front control valve comp. air	VG801705	18006 009	XL1187-P550	88332IG
Front control valve other gas	VG801706	18006 009	XL1187-P550	88332IG
Bench mount water outlet	VG800710	18425 009	XL1211B-8M01	86723B0
Bench or wall mount outlet cw	VG800909			84113P
Bench or wall mount outlet vacuum	VG800910			84113P
Bench or wall mount outlet comp. air	VG800911			84113P
Bench or wall mount outlet nitrogen	VG800912			84113P
Bench or wall mount outlet nat. gas	VG800913			84113P
Bench or wall mount outlet other gas	VG800914			84113P
Wall mount outlet water	VG800706	18236 009	XL1213N-8M01	8676308
Wall outlet straight water	VG800920	18432 009	XL1462-M01	8674600
Wall outlet straight vacuum	VG800921	18432 009	XL1462-M01	8674600
Wall outlet straight comp. air	VG800922	18432 009	XL1462-M01	8674600
Wall outlet straight nitrogen	VG800923	18432 009	XL1462-M01	8674600
Wall outlet straight nat. gas	VG800924	18432 009	XL1462-M01	8674600
Wall outlet straight other gas	VG800925	18432 009	XL1462-M01	8674600
<b>EMERGENCY EYE WASH/SHOWERS</b>				
Combined free standing shower/eye wash	VL4220	17551 009		
Bench mount emergency spray	VL3120	17096 009		
Wall mount twin head eye wash	VL2210	17300 009	17300 009	

All Vultex Labline® laboratory service controls are colour coded to conform to DIN EN 13792.

			
COLD DRINKING WATER	ETHYLENE C <sub>2</sub> H <sub>4</sub>	CARBON DIOXIDE CO <sub>2</sub>	VACUUM UP 1 MBAR to 10 <sup>-3</sup> MBAR
			
HOT DRINKING WATER	PROPENE C <sub>3</sub> H <sub>6</sub>	KRYPTON Kr	VACUUM UP 10 <sup>-3</sup> to 10 <sup>-7</sup> MBAR
			
COLD INDUSTRIAL WATER	BUTENE C <sub>4</sub> H <sub>6</sub>	NEON Ne	FORMALDEHIDE CH <sub>2</sub> O
			
STEAM	ACETYLENE C <sub>2</sub> H <sub>2</sub>	ARGON Ar	PROPANOL C <sub>3</sub> H <sub>8</sub> O
			
PURE COLD WATER	ARGON-METHANE ArCH <sub>4</sub>	HELIUM He	METHANOL CH <sub>4</sub> O
			
DECALCIFIED COLD WATER	HYDROGEN H <sub>2</sub>	AMMONIAC NH <sub>3</sub>	ACETONE C <sub>3</sub> H <sub>6</sub> O
			
DISTILLED WATER	NITROGEN N <sub>2</sub>	NITROGEN DIOXIDE NO <sub>2</sub>	TRYCHLOROETHYLENE C <sub>2</sub> HCl <sub>3</sub>
			
METHANE CH <sub>4</sub>	NITROGEN MONOXIDE N <sub>2</sub> O	HYDROGEN SULFIDE H <sub>2</sub> S	PERCHLORIC ACID HClO <sub>4</sub>
			
PROPANE C <sub>3</sub> H <sub>8</sub>	COMPRESSED AIR	PHOSPHINE PH <sub>3</sub>	NATURAL GAS
			
BUTANE C <sub>4</sub> H <sub>10</sub>	OXYGEN O <sub>2</sub>	VACUUM UP 1000 to 1 MBAR	PROPANE-BUTANE GAS

## Durapipe UK Pipework Systems

### BUILDING SERVICES



#### Vulcathene

- Safe chemical drainage pipework
- Two easy jointing methods - Mechanical or Enfusion
- Ideal for schools, universities and colleges, hospitals and clinics



#### Friaphon

- Sound attenuated drainage system
- Superb sound insulation with no lagging required
- Ideal for hospitals, hotels, office suites and apartments



#### Duracool

- Pre-insulated ABS pipework system
- Lightweight and easy to install
- Unique shells for cost-efficient installation



#### SuperFLO

- Pipe system for chilled and cold water applications
- Ductile and robust down to minus 40°C
- Lightweight, non-corrosive and limescale resistant



#### Durapipe HTA

- Pipework for hot and cold water
- Limescale and corrosion resistant
- WRAS approved
- Installed cost saving versus traditional materials



#### PLX

- Specialist pipework system for the safe conveyance of fuel
- Suitable for pressure and vacuum applications
- Ideal for emergency power supply, uninterrupted power supply and transport refuelling applications

# DURAPIPE UK CONDITIONS OF SALE

## 1. DEFINITIONS

"Seller" shall mean Glynwed Pipe Systems Limited, Registered in England under number 1698059. "Buyer" shall mean any company, organisation or individual to whom a quotation is offered, or whose order is accepted by the Seller.

## 2. CONDITIONS

All offers, quotations, estimates, acceptances and contracts are subject to these Conditions of Business and any terms or conditions which any other person shall seek to impose or make part of any contract shall, so far as is inconsistent with these Conditions of Business, not apply unless expressly agreed by the Seller in writing. The headings in these conditions are for convenience only and shall not affect their interpretation.

## 3. QUOTATIONS AND PRICE VARIATION

a) Any quotation given by the Seller is an invitation to the Buyer to make an offer only and no order of the Buyer placed with the Seller in pursuance of a quotation or otherwise shall be binding on the Seller unless and until it is accepted in writing by the Seller.

b) Unless stated otherwise, all quotations and published price lists are ex works, exclusive of VAT and shall remain valid for 30 days or such a period as may be quoted but nevertheless the Seller may amend or withdraw any quotation by written or oral notice. Quotations may be varied if the Buyer makes variations in his specifications.

## 4. STATEMENTS OR REPRESENTATIONS TO THE BUYER

If any statement or representation has been made to the Buyer upon which the Buyer relies other than in the documents enclosed with the Seller's quotation, the Buyer must set out that statement or representation in a document to be attached to or endorsed on the order in which case the Seller may submit a new quotation.

## 5. DELIVERY - TIME

a) Any period for delivery given at any time and in any manner by the Seller is an estimate only and is not binding on the Seller. Delivery periods are normally calculated from the later of:

- i) acceptance of order; or
- ii) where applicable, the receipt by the Seller of a detailed specification or drawings.

b) Time shall not be deemed to be of the essence of the contract. Failure by the Seller to meet any quoted delivery period for any part or the whole of the order shall not entitle the Buyer to rescind the contract or to claim damages of any nature.

c) The Seller will endeavour to comply with reasonable requests by the Buyer for postponement of delivery but shall be under no obligation to do so. Where delivery is postponed otherwise than due to default by the Seller the Buyer shall pay all costs and expenses including a reasonable charge for storage and transportation occasioned thereby and an extra charge for split delivery if applicable.

d) The Buyer will receive delivery of any consignment between the hours of 8.0am and 4.0pm Monday to Friday inclusive, unless otherwise agreed in writing. Cost incurred by the Seller arising from the Buyer's refusal to accept consignments within the agreed hours shall be borne by the Buyer.

## 6. DELIVERY AND RISK

a) Except where stated to the contrary in the contract, delivery shall be made as follows:

- i) where the Buyer provides the transport, delivery shall be made ex the Seller's works;
- ii) where the Seller provides the transport, delivery shall be made to the premises of the Buyer, or the premises of the Buyer's customer or works site if the Buyer has requested delivery to be so made but where the Buyer has made such a request the Seller will make a first delivery to the Buyer's customer or works site as so much of the goods as is available for that delivery but subsequent deliveries will be made to the premises of the Buyer.

b) The Seller may at its discretion make partial delivery of orders and invoice the same.

c) Risk in the goods shall pass on delivery.

d) Where goods are sent FOB the Seller's responsibility shall cease when the goods are placed on board ship or aircraft without the need for the Seller to give notice to the Buyer and the provisions of Section 32(3) of the Sale of Goods Act 1979 shall not apply.

## 7. OWNERSHIP OF GOODS

a) The goods shall remain the sole and absolute property of the Seller as legal and equitable owner until such time as the Buyer shall have paid to the Seller the contract price together with the full price of any other goods the subject of any contract between the Seller and the Buyer.

b) The Buyer acknowledges that until such time as the property in the goods passes to the Buyer he is in possession of the goods as a bailee and fiduciary agent for the Seller and the Purchaser shall store the goods in such a manner that they are clearly identifiable as the property of the Seller.

c) Until payment due under all contracts between the Buyer and the Seller had been made in full, in the event of sale of the goods by the Buyer:

- i) the Seller shall be entitled to trace all proceeds of sale received by the Buyer through any bank or other account maintained by the Buyer; and
- ii) the Buyer shall if requested by the Seller in writing to so assign its rights to recover the selling price of the goods from the third parties concerned. Such monies to be held separately by the Buyer as agent on behalf of the Seller.

d) The Seller may for the purpose of recovery of its goods enter upon any premises where they are stored or where they are reasonably thought to be stored and may repossess the same.

## 8. TERMS OF PAYMENT

In the event of default in payment according to the agreed payment terms between the Seller and the Buyer – ie: by the end of the month following the month of despatch of the goods the Seller shall be entitled without prejudice to any other right or remedy to suspend all further deliveries and to charge interest on any amount outstanding at the rate of 2% per month until payment in full is made (a part of a month being treated as a full month for the purpose of calculating interest).

## 9. SHORTAGES AND DEFECTS APPARENT ON DELIVERY

a) It shall be the responsibility of the Buyer to inspect or arrange for an inspection of the goods on delivery whether the goods are delivered to the Buyer's premises or to the premises of the Buyer's customer or to a works site. If no such inspection is made the Buyer shall be deemed to have accepted the goods.

b) The Buyer shall have no claim for shortages or defects apparent on inspection unless:

- i) a written complaint is made to the Seller within three days of receipt of the goods specifying the shortage or defect; and
- ii) the Seller is within seven days of receipt of the complaint given an opportunity to inspect the goods and investigate the complaint before any use is made of the goods

c) If a complaint is not made to the Seller as herein provided then in respect of such shortages or defects the goods shall be deemed to be in all respects in accordance with the contract and the Buyer shall be bound to pay for the same accordingly.

## 10. CLAIMS FOR DEFECTS NOT APPARENT ON INSPECTION

a) The Buyer shall have no claim for defects not apparent on inspection unless the Seller is notified of defective workmanship or materials within twelve months from delivery of the goods. Provided that the goods have been installed and applied in accordance with any relevant recommendations made by the Seller, the Seller will at its option replace the goods or refund the net invoiced price in respect of the goods which have been shown to be defective. If the Seller does so supply substitute goods the Buyer shall be bound to accept such substituted goods in full satisfaction of the obligations of the Seller under the contract.

b) The Buyer shall in any event have no claim or set-off in respect of defects unless a written complaint is sent to the Seller as soon as the defect is noticed and no use is made of the goods thereafter or alteration made thereto by the Buyer before the Seller is given an opportunity to inspect the goods.

c) The Buyer is responsible for ensuring that the goods are fit for any particular purpose, and no warranty or condition of fitness for any particular purpose is to be implied into the contract.

## 11. LIABILITY

Save as stated in Conditions 9 and 10 (and save in respect of death or personal injury resulting from the negligence of the Seller its servants or agents) the Seller shall not be liable for any claim or claims for direct or indirect consequential or incidental injury loss or damage made by the Buyer against the Seller whether in contract or in tort (including negligence on the part of the Seller its servants or agents) arising out of or in connection with any defect in the goods or their fitness or otherwise for any particular purpose or any act omission neglect or default of the Seller its servants or agents in the performance of the contract.

## 12. FORCE MAJEURE

Notwithstanding anything herein contained neither the Buyer nor the Seller is to be held liable for any delay or failure to carry out the contract due wholly or in part to an act of God action by any Government whether British or foreign civil war strikes and/or lockouts wheresoever occurring fire trade disputes floods or unfavourable weather or any material becoming unavailable or irreplaceable (whether at all or at commercially acceptable prices) or any other circumstances beyond the control of the Seller.

## 13. SUB-CONTRACTING

The Seller reserves the right to sub-contract the fulfilment of any order or any part thereof.

## 14. INSOLVENCY AND BREACH OF CONTRACT

In the event that:

a) the Buyer commits any breach of the contract and fails to remedy such breach (if capable of remedy) within a period of thirty days from receipt of a notice in writing from the Seller requesting such remedy; or

b) any distress or execution is levied upon any of the goods or property of the Buyer; or

c) the Buyer offers to make any arrangements with or for the benefit of its creditors or (if an individual) becomes subject to a petition for a bankruptcy order or (being a limited company) has a receiver appointed of the whole or any part of its undertaking property or assets; or

d) an order is made or a resolution is passed or analogous proceedings are taken for the winding up of the Buyer (save for the purpose of reconstruction or amalgamation with insolvency and previously approved in writing by the Seller) the Seller shall thereupon be entitled without prejudice to its other rights hereunder forthwith to suspend all further deliveries until the default has been made good or to determine the contract and any unfulfilled part thereof or at the Seller's option to make partial deliveries. Notwithstanding any such termination the Buyer shall pay to the Seller at the contract rate for all the goods delivered up to and including the date of termination.

## 15. INDUSTRIAL PROPERTY RIGHTS

If goods supplied by the Seller to the Buyer's design or specifications infringe or are alleged to infringe any patent or registered design right or copyright the Buyer will indemnify the Seller against all damages, costs and expenses incurred by the Seller as a result of the infringement or allegation. The Buyer will give the Seller all possible help in meeting any infringement claim brought against the Seller.

## 16. BUYER'S ERROR IN ORDERING

In the event the Buyer orders incorrectly the Seller will be under no obligation to the Buyer to rectify or assist in rectifying the error.

## 17. LAW AND JURISDICTION

The contract shall be subject in all respects to English Law and to the jurisdiction of the English Courts.

Durapipe UK reserves the right to modify the details in this publication as products and specifications are updated and improved. The content of this publication is for general information only and it is the user's responsibility to determine the suitability of any product for the purpose intended.

For further information on all Durapipe UK products and services contact our Customer Services Team as detailed below.

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