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The BMTFA's Technical Database Search Function, found at www.bmtfa.org, is another helpful tool that gives guidance regarding the possible selection options for tube materials and fittings types for given example applications.

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Smith Brothers specialise in the distribution of pipework, valves and air conditioning, along with all associated fittings and ancillaries. The business has extensively increased its product portfolio and geographical coverage since the turn of the millennium. With branch coverage across England, Wales and Scotland, including a Head Office based in Leicester, we are able to meet our customer's service commitments, our brand promise since 1897. SBS should be the number one choice for the mechanical services contractor that relies on the quality of service and competitive pricing.

SBS can offer added value over its competitors in many ways. By drawing from our close relationships with our carefully selected and quality assured supply chain and by maintaining excellent stock levels at all branches, we are able to reduce supplier lead times. In turn, our operation is well set to provide unrivalled service levels and competitive pricing.

Our investment strategy for sustainable growth, along with our commitment to our branch expansion programme and product range development, are just some of the reasons behind the unprecedented success of the business, resulting in turnover increasing to over £200 million per annum today.

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Steve Smith
Managing Director

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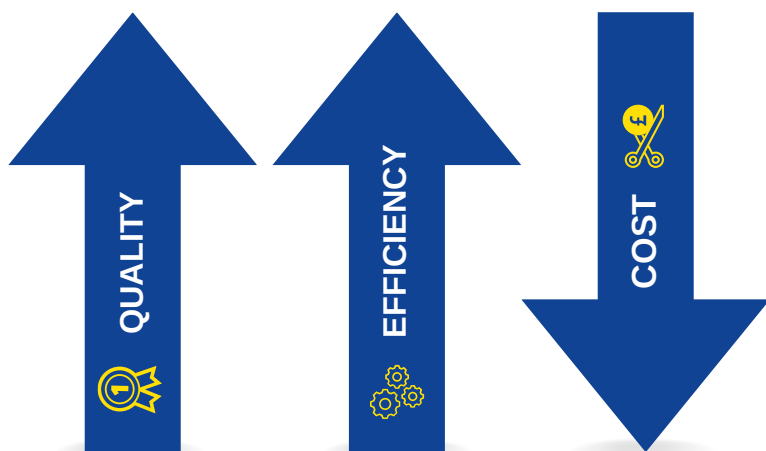
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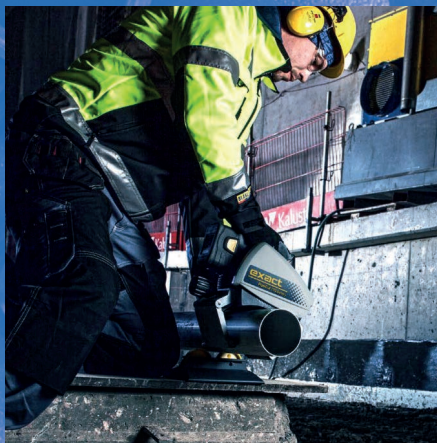
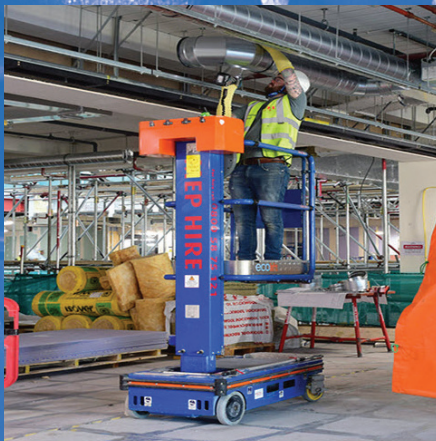
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POTABLE WATER

MANUFACTURER	PRODUCT	SIZE	MAX PRESSURE (BAR)	TEMPERATURE (°C)	MATERIAL	JOINTING	WARRANTY (YEARS)
AALBERTS	Henco	12 to 90mm	10	Up to 95	MLCP = PEXc-Al-PEXc PK = PVDF Fittings with S.Steel Cups Brass = CW617N brass with S.Steel Cups	Press-Fit	10
	Tectite Classic	10 to 28mm	16	-24 to 95	Brass	Push-Fit	25
	Tectite 316	15 to 54mm	20 < 28mm 16 > 35mm	-24 to 114 < 28mm -24 to 90 > 35mm	Stainless Steel	Push-Fit	25
	Tectite Pro	15 to 54mm	20 < 28mm 16 > 35mm	-24 to 114 < 28mm -24 to 90 > 35mm	Brass < 28mm Gunmetal > 35mm	Push-Fit	25
	Tectite Sprint	10 to 54mm	20	-24 to 114	Copper	Push-Fit	25
	Xpress Copper	15 to 108mm	16	-20 to 110	Copper	Press-Fit	25
	Xpress Stainless	15 to 168mm	16	-35 to 135	Stainless Steel	Press-Fit	25
AQUATECHNIK	Safety-Plus	16 to 75mm	20 @ 20°C & 10 @ 95°C	0 to 70 (95 peak)	Pex-Al-Pex Multi-layer	Flared Locking - Mechanical	25
EMMETI	Gerpex	16 to 75mm	10	0 to 95	Multi-layer	Press-Fit	1
FRABO	Copper	12 to 108mm	16	-10 to 110	Copper	Press-Fit	30
GEORG FISCHER	ABS BS Inch	3/8" to 8"	15	-50 to 60	ABS	Screwed, Solvent Weld	1
	ABS Metric	16 to 315mm	16	-50 to 60	ABS	Screwed, Solvent Weld	1
	PVCu BS Inch	3/8" to 8"	15	0 to 60	PVCu	Screwed, Solvent Weld	1
	PVC Metric	6 to 400mm	16	0 to 60	PVCu	Screwed, Solvent Weld	1
	Instaflex	16 to 225mm	16	-10 to 95	PB	Electrofusion, Socket fusion & Compression	1
	ELGEF Plus	20 to 1200mm	16	-40 to 65	PE 100	Weld, Electrofusion	1
	PVC-C	16 to 225mm	16	0 to 80	PVC-C	Screwed, Solvent Weld	1
	PROGEF Plus	20 to 315mm	10	0 to 80	PP	Butt Fusion	1
	Sanipex MT	16 to 63mm	10	0 to 80	PE-RT/Al/PE-RT	Cone-Grip Technology	1
	Primofit	1/2" to 3"	16	-20 to 40	Iron (EPDM seal)	Compression	1
	Cool-Fit 2.0/4.0	32 to 450mm	16 (d32 to 450) 10 (d160 to 450)	-50 to 60	PE100/GF HE FOAM/HDPE	Electrofusion	1
ISOTUBI	Numeppress	15 to 168.3mm	16	-20 to 110	Stainless Steel	Press-Fit (EPDM)	25

POTABLE WATER

MANUFACTURER	PRODUCT	SIZE	MAX PRESSURE (BAR)	TEMPERATURE (°C)	MATERIAL	JOINTING	WARRANTY (YEARS)
PLASSON	Mechanical	20 to 160mm	16 @ 20°C	-10 to 50	Polypropylene	Compression	1
	Push-Fit	20 to 63mm	16 @ 20°C	-10 to 50	Polypropylene	Push-Fit	1
	Electro-Fusion	20 to 1200mm	25 @ 20°C	-10 to 50	Polypropylene	Electrofusion	1
POLYPIPE BUILDING SERVICES	Effast ABS	1/2" to 8"	15	-40 to 60	ABS	Solvent Weld / Threaded	1
	Effast PVCu	1/2" to 8"	15	0 to 60	PVCu	Solvent Weld / Threaded	1
	Effast PVCu metric	16 to 315mm	16	0 to 60	PVCu	Solvent Weld / Threaded	1
RWC	JG Speedfit	10 to 28mm	3	Up to 95	PEX	Push-Fit	25
UPONOR	MLCP	16 - 110mm	10	0 to 70 (95 peak)	Multi-layer	Press-Fit	25
VICTAULIC	Stainless	2" to 12" or 50 to 300mm	16	-34 to 110	Ductile Iron Fittings	Grooved	1
VIEGA	Profipress	12 to 108mm	16	-5 to 110	Copper & Gunmetal	Press Connection	25
	Sanpress Inox	15 to 108mm	16	-5 to 110	Stainless Steel	Press Connection	25
	Sanpress	12 to 108mm	16	-5 to 110	Gunmetal	Press Connection	25
	Smartpress	16 to 63mm	10	Up to 70	Multi-layer	Press Connection	25
WAVIN	Hep2o	10 to 28mm	12 @ 20°C & 3 @ 114°C	-15 to 114	Polybutelene	Push-Fit	50

FIRE PROTECTION

MANUFACTURER	PRODUCT	SIZE	MAX PRESSURE (BAR)	TEMPERATURE (°C)	MATERIAL	JOINTING	WARRANTY (YEARS)
AALBERTS	Xpress Sprinkler Stainless	22 to 108mm	16 (up to DN65) 12.5 (up to DN80) 10 up (to DN100)	-35 to 135	Stainless Steel	Press-Fit	25
	PowerPress	1/2" to 2"	16	-40 to 135	Steel	Press-Fit	5
CRANE	Malleable Iron (Black & Galv)	1/8" to 6"	25	-20 to 300	Malleable Iron	Screwed	1
GEORG FISCHER	Malleable Iron (Black & Galv)	1/8" to 4"	25	-20 to 300	Malleable Iron	Screwed	1
ISOTUBI	Numepress	15 to 168.3mm	16	-20 to 110	Stainless Steel	Press-Fit (EPDM)	25
VICTAULIC	Carbon Steel	1" to 24" or 25 to 600mm	24	-34 to 110	Ductile Iron Fittings	Grooved	1
VIEGA	Sanpress Inox	15 to 108mm	16	-5 to 110	Stainless Steel	Press Connection	25
	Megapress	1/2" to 4"	16	-5 to 110	Steel	Press Connection	25
	Sanpress	12 to 108mm	16	-5 to 110	Gunmetal	Press Connection	25
	Smartpress	16 to 63mm	10	Up to 70	Multi-layer	Press Connection	25

HEATING

MANUFACTURER	PRODUCT	SIZE	MAX PRESSURE (BAR)	TEMPERATURE (°C)	MATERIAL	JOINTING	WARRANTY (YEARS)
AALBERTS	Henco	12 to 90mm	10	Up to 95	MLCP = PEXc-Al-PEXc PK = PVDF Fittings with S.Steel Cups Brass = CW617N brass with S.Steel Cups	Press-Fit	10
	Tectite Classic	10 to 28mm	16	-24 to 95	Brass	Push-Fit	25
	Tectite 316	15 to 54mm	20 < 28mm 16 > 35mm	-24 to 114 < 28mm -24 to 90 > 35mm	Stainless Steel	Push-Fit	25
	Tectite Pro	15 to 54mm	20 < 28mm 16 > 35mm	-24 to 114 < 28mm -24 to 90 > 35mm	Brass < 28mm Gunmetal > 35mm	Push-Fit	25
	Tectite Sprint	10 to 54mm	20	-24 to 114	Copper	Push-Fit	25
	Xpress Carbon	15 to 108mm	16	-35 to 135	Carbon Steel	Press-Fit	10
	Xpress Copper	15 to 108mm	16	-20 to 110	Copper	Press-Fit	25
	Xpress Stainless	15 to 168mm	16	-35 to 135	Stainless Steel	Press-Fit	25
	PowerPress	1/2" to 2"	16	-40 to 135	Steel	Press-Fit	5
AQUATECHNIK	Safety-Plus	16 to 75mm	20 @ 20°C & 10 @ 95°C	0 to 70 (95 peak)	Pex-Al-Pex Multi-layer	Flared Locking - Mechanical	25
EMMETI	Gerpex	16 to 75mm	10	0 to 95	Multi-layer	Press-Fit	1
FRABO	Copper	12 to 108mm	16	-10 to 110	Copper	Press-Fit	30
	Carbon	12 to 108mm	16	-10 to 110	Carbon Steel	Press-Fit	10
GEORG FISCHER	Aquasystem	20 to 125mm	20	5 to 90	PP-R	Socket fusion, Butt-weld, Electrofusion	1
	Instaflex	16 to 225mm	16	-10 to 95	PB	Electrofusion, Socket fusion & Compression	1
	Sanipex MT	16 to 63mm	10	0 to 80	PE-RT/Al/PE-RT	Cone-Grip Technology	1
	Primofit	1/2" to 3"	16	-20 to 40	Iron (EPDM seal)	Compression	1
ISOTUBI	Numepress	15 to 168.3mm	16	-20 to 110	Stainless Steel	Press-Fit (EPDM)	25
RWC	JG Speedfit	10 to 28mm	3	Up to 95	PEX	Push-Fit	50
UPONOR	MLCP	16 - 110mm	10	0 to 80 (100 peak)	Multi-layer	Press-Fit	25
VICTAULIC	Stainless	2" to 12" or 50 to 300mm	16	-34 to 110	Ductile Iron Fittings	Grooved	1
	Carbon Steel	1" to 24" or 25 to 600mm	24	-34 to 110	Ductile Iron Fittings	Grooved	1
VIEGA	Profipress	12 to 108mm	16	-5 to 110	Copper	Press Connection	25
	Profipress S	12 to 35mm	16	0 to 140	Copper & Gunmetal	Press Connection	25
	Sanpress Inox	15 to 108mm	16	-5 to 110	Stainless Steel	Press Connection	25
	Smartpress	16 to 63mm	10	Up to 80	Multi-layer	Press Connection	25
	Megapress	1/2" to 4"	10	-5 to 110	Steel	Press Connection	25
WAVIN	Hep2o	10 to 28mm	12 @ 20°C & 3 @ 114°C	-15 to 114	Polybutelene	Push-Fit	50

GAS

MANUFACTURER	PRODUCT	SIZE	MAX PRESSURE (BAR)	TEMPERATURE (°C)	MATERIAL	JOINTING	WARRANTY (YEARS)
AALBERTS	Xpress Copper Gas	15 to 54mm	5	-20 to 70	Copper	Press-Fit	25
	Xpress Stainless Gas	15 to 108mm	5	-20 to 70	Stainless Steel	Press-Fit	25
CRANE	Malleable Iron (Black & Galv)	1/8" to 6"	25	-20 to 300	Malleable Iron	Screwed	1
GASTITE	CSST	15 to 50mm	0.5 (BS EN15266)	-15 to 95	Stainless Steel	Compression (Jacket-Lock)	Lifetime
GFS	CSST	15 to 50mm	0.5 (BS EN15266)	-15 to 95	Stainless Steel	Compression	2
GEORG FISCHER	ELGEF Plus	20 to 315mm (Up to 800mm on couplers)	10	-40 to 65	PE 100	Weld, Electrofusion	1
	Malleable Iron (Black & Galv)	1/8" to 4"	25	-20 to 300	Malleable Iron	Screwed	1
	Primofit	1/2" to 3"	10	-20 to 60	Iron	Compression	1
ISOTUBI	Numeppress Gas	15 to 168.3mm	5	-20 to 70	Stainless Steel	Press-Fit (HNBR)	25
VIEGA	Profipress G	12 to 54mm	5	-20 to 70	Copper & Gunmetal	Press Connection	25
	Sanpress Inox G	15 to 108mm	5	-20 to 70	Stainless Steel	Press Connection	25
	Megapress G	1/2" to 2"	5	-20 to 40	Steel	Press Connection	25

SOLAR THERMAL

MANUFACTURER	PRODUCT	SIZE	MAX PRESSURE (BAR)	TEMPERATURE (°C)	MATERIAL	JOINTING	WARRANTY (YEARS)
AALBERTS	Xpress Carbon	15 to 108mm	16	-35 to 135	Carbon Steel	Press-Fit	10
	Xpress Copper	15 to 108mm	16	-20 to 110	Copper	Press-Fit	25
	Xpress Stainless	15 to 168mm	16	-35 to 135	Stainless Steel	Press-Fit	25
ISOTUBI	Numeppress	15 to 168.3mm	16	-20 to 200	Stainless Steel	Press-Fit (FKM)	25
VIEGA	Profipress S	12 to 35mm	16	0 to 140	Copper & Gunmetal	Press Connection	25
	Megapress S	1/2" to 4"	16	-5 to 140	Steel	Press Connection	25

WASTE & DRAINAGE

MANUFACTURER	PRODUCT	SIZE	MAX PRESSURE (BAR)	TEMPERATURE (°C)	MATERIAL	JOINTING	WARRANTY (YEARS)
AALBERTS	Yorkshire ISR Waste Fittings	35 to 54mm	0.35	-10 to 30	Bronze	Solder Ring	25
ALUMASC WATER MANAGEMENT SOLUTIONS	HARMER SML AG	50 to 400mm	10	n/a	Ductile Iron, Ductile Iron & Stainless Steel couplings	Mechanical	n/a
GEORG FISCHER	ELGEF Plus	20 to 1200mm	16	-40 to 65	PE 100	Weld, Electrofusion	1
	Fuseal	1.1/2" to 18"	3.4	0 to 100	PP	Mechanical, Electrofusion	1
PAM BUILDING SERVICES ST GOBAIN	Ensign	50 to 300mm	5 < 150mm 3 > 200mm	up to 95	Ductile Iron couplings	Mechanical	1
POLYPIPE BUILDING SERVICES	Effast ABS	32 to 50mm	n/a	-20 to 80	ABS	Solvent Weld	1
	Terrain FUZE HDPE	40 to 315mm	n/a	-40 to 80	HDPE	Electrofusion and Butt-weld	1
	Terrain Q	40 to 200mm	n/a	-20 to 80	PP	Push-Fit	1
	Effast PVC	32 to 250mm	n/a	0 to 76	PVC	Solvent Weld/ Push-Fit	1
	MecFlow	32 to 160mm	up to 39.2* depending on diameter & service life	0 to 95	PP-RCT	Electrofusion, Butt-weld & Socket Weld	1
RADIUS SYSTEMS	Puriton	25 to 180mm	12.5 < 63mm 10 > 90mm SDR17 16 > 90mm SDR11	0 to 20	Polyethylene & Aluminium	Mechanical, Electrofusion, Mechanical hydraulic compression	1



CHEMICAL/PROCESS

MANUFACTURER	PRODUCT	SIZE	MAX PRESSURE (BAR)	TEMPERATURE (°C)	MATERIAL	JOINTING	WARRANTY (YEARS)
ALIAxis	Vulcathene	38 to 152mm	n/a	-20 to 100	Co-polymer polypropylene with carbon black ultra-violet stabilizer	Mechanical, Enfuson	1
GEORG FISCHER	ABS BS Inch	3/8" to 8"	16	-50 to 60	ABS	Screwed, Solvent Weld	1
	ABS Metric	16 to 315mm	16	-50 to 60	ABS	Screwed, Solvent Weld	1
	PVCu BS Inch	3/8" to 8"	15	0 to 60	PVCu	Screwed, Solvent Weld	1
	PVC Metric	6 to 400mm	16	0 to 60	PVCu	Screwed, Solvent Weld	1
	PVC-C	16 to 225mm	16	0 to 80	PVC-C	Screwed, Solvent Weld	1
	PROGEF Plus	20 to 315mm	10	0 to 80	PP	Butt Fusion	1
	Fuseal	1.1/2" to 18"	3.4	0 to 100	PP	Mechanical, Electrofusion	1
	SYGEF Plus	16 to 315mm	16	-20 to 140	PVDF	Weld	1
ISOTUBI	Numeppress	15 to 168.3mm	16	-20 to 110	Stainless Steel	Press-Fit (EPDM)	25
POLYPIPE BUILDING SERVICES	Effast Polypropylene	20 to 110mm	10	-10 to 110	PP-H	Electrofusion, Socket Fusion or Butt Fusion Welding	1
	Terrain FUZE HDPE	40 to 315mm	n/a	-40 to 80	HDPE	Electrofusion and Butt-weld	1
RADIUS SYSTEMS	Puriton	25 to 180mm	12.5 < 63mm 10 > 90mm SDR 17 16 > 90mm SDR 11	0 to 20	Polyethylene & Aluminium	Mechanical, Electrofusion, Mechanical hydraulic compression	1
VICTAULIC	Carbon	1" to 24" or 25 to 600mm	24	-34 to 110	Ductile Iron Fittings	Grooved	1
	Stainless	2" to 12" or 50 to 300mm	16	-34 to 110	Ductile Iron Fittings	Grooved	1
VEIGA	ProfiPress	12 to 108mm	16	-5 to 110	Copper & Gunmetal	Press Connection	25
	ProfiPress LF	12 to 108mm	16	-5 to 110	Copper & Gunmetal	Press Connection	25
	Sanpress	12 to 108mm	16	-5 to 110	Stainless Steel	Press Connection	25
	Sanpress Inox	15 to 108mm	16	-5 to 110	Stainless Steel	Press Connection	25
	Sanpress Inox LF	15 to 108mm	16	-5 to 110	Stainless Steel	Press Connection	25
	Megapress	1/2" to 4"	10	-5 to 110	Steel	Press Connection	25
	Megapress S	1/2" to 4"	16	-5 to 140	Steel	Press Connection	25

CHILLED WATER

MANUFACTURER	PRODUCT	SIZE	MAX PRESSURE (BAR)	TEMPERATURE (°C)	MATERIAL	JOINTING	WARRANTY (YEARS)
AALBERTS	Henco	12 to 90mm	10	Up to 95	MLCP = PEXc-Al-PEXc PK = PVDF Fittings with S.Steel Cups Brass = CW617N brass with S.Steel Cups	Press-Fit	10
	Tectite 316	15 to 54mm	20 < 28mm 16 > 35mm	-24 to 114 < 28mm -24 to 90 > 35mm	Stainless Steel	Push-Fit	25
	Tectite Pro	15 to 54mm	20 < 28mm 16 > 35mm	-24 to 114 < 28mm -24 to 90 > 35mm	Brass < 28mm Gunmetal > 35mm	Push-Fit	25
	Tectite Sprint	10 to 54mm	20	-24 to 114	Copper	Push-Fit	25
	Xpress Carbon	15 to 108mm	16	-35 to 135	Carbon Steel	Press-Fit	10
	Xpress Copper	15 to 108mm	16	-20 to 110	Copper	Press-Fit	25
	Xpress Stainless	15 to 168mm	16	-35 to 135	Stainless Steel	Press-Fit	25
	PowerPress	1/2" to 2"	16	-40 to 135	Steel	Press-Fit	5
AQUATECHNIK	Safety-Plus	16 to 75mm	20 @ 20°C & 10 @ 95°C	0 to 70 (95 peak)	Pex-Al-Pex Multi-layer	Flared Locking - Mechanical	25
EMMETI	Gerpex	16 to 75mm	10	0 to 95	Multi-layer	Press-Fit	1
FRABO	Copper	12 to 108mm	16	-10 to 110	Copper	Press-Fit	30
	Carbon	12 to 108mm	16	-10 to 110	Carbon Steel	Press-Fit	10
GEORG FISCHER	ABS BS Inch	3/8" to 8"	16	-50 to 60	ABS	Screwed, Solvent Weld	1
	ABS Metric	16 to 315mm	16	-50 to 60	ABS	Screwed, Solvent Weld	1
	Aquasystem	20 to 125mm	20	5 to 90	PP-R	Socket fusion, Butt-weld, Electrofusion	1
	Cool-Fit 2.0/4.0	32 to 450mm	16 (d32 to 450) 10 (d160 - 450)	-50 to 60	PE100/GF HE FOAM/HDPE	Electrofusion	1
	Sanipex MT	16 to 63mm	10	0 to 80	PE-RT/Al/PE-RT	Cone-Grip Technology	1
	ELGEF Plus	20 to 1200mm	16	-40 to 65	PE 100	Weld, Electrofusion	1
	Instaflex	16 to 315mm	16	-10 to 95	PB	Electrofusion, Socket fusion & Compression	1
ISOTUBI	Numepress	15 to 168.3mm	16	-20 to 110	Stainless Steel	Press-Fit (EPDM)	25

CHILLED WATER

MANUFACTURER	PRODUCT	SIZE	MAX PRESSURE (BAR)	TEMPERATURE (°C)	MATERIAL	JOINTING	WARRANTY (YEARS)
POLYPIPE BUILDING SERVICES	Effast ABS	1/2" to 8"	15	-40 to 60	ABS	Solvent Weld / Threaded	1
RWC	JG Speedfit	10 to 28mm	12	20	PEX	Push-Fit	50
UPONOR	MLCP	16 to 110mm	10	0 to 70 (95 peak)	Multi-layer	Press-Fit	25
VICTAULIC	Stainless	2" to 12" or 50 to 300mm	16	-34 to 110	Ductile Iron Fittings	Grooved	1
	Carbon	1" to 24" or 25 to 600mm	24	-34 to 110	Ductile Iron Fittings	Grooved	1
VIEGA	Profitpress	12 to 108mm	16	-5 to 110	Copper & Gunmetal	Press Connection	25
	Sanpress Inox	15 to 108mm	16	-5 to 110	Stainless Steel	Press Connection	25
	Smartpress	16 to 63mm	10	70	Multi-layer	Press Connection	25
	Megapress	1/2" to 4"	10	-5 to 110	Steel	Press Connection	25
WAVIN	Hep2o	10 to 28mm	12 @ 20°C & 3 @ 114°C	-15 to 114	Polybutelene	Push-Fit	50



HOT WATER SERVICES

MANUFACTURER	PRODUCT	SIZE	MAX PRESSURE (BAR)	TEMPERATURE (°C)	MATERIAL	JOINTING	WARRANTY (YEARS)
AALBERTS	Henco	12 to 90mm	10	Up to 95	MLCP = PEXc-Al-PEXc PK = PVDF Fittings with S.Steel Cups Brass = CW617N brass with S.Steel Cups	Press-Fit	10
	Tectile Classic	10 to 28mm	16	-24 to 95	Brass	Push-Fit	25
	Tectile 316	15 to 54mm	20 < 28mm 16 > 35mm	-24 to 114 < 28mm -24 to 90 > 35mm	Stainless Steel	Push-Fit	25
	Tectile Pro	15 to 54mm	20 < 28mm 16 > 35mm	-24 to 114 < 28mm -24 to 90 > 35mm	Brass < 28mm Gunmetal > 35mm	Push-Fit	25
	Tectile Sprint	10 to 54mm	20	-24 to 114	Copper	Push-Fit	25
	Xpress Copper	15 to 108mm	16	-20 to 110	Copper	Press-Fit	25
	Xpress Stainless	15 to 168mm	16	-35 to 135	Stainless Steel	Press-Fit	25
AQUATECHNIK	Safety-Plus	16 to 75mm	20 @ 20°C & 10 @ 95°C	0 to 70 (95 peak)	Pex-Al-Pex Multi-layer	Flared Locking - Mechanical	25
EMMETI	Gerpex	16 to 75mm	10	0 to 95	Multi-layer	Press-Fit	1
FRABO	Copper	12 to 108mm	16	-10 to 110	Copper	Press-Fit	30
GEORG FISCHER	Aquasystem	20 to 125mm	20	5 to 95	PP-R	Socket fusion, Butt-weld, Electrofusion	1
	Instaflex	16 to 315mm	16	-10 to 95	PB	Electrofusion, Socket fusion & Compression	1
	Primofit	1/2" to 3"	16	-20 to 40	Iron (EPDM seal)	Compression	1
	Sanipex MT	16 to 63mm	10	0 to 80	PE-RT/Al/PE-RT	Cone-Grip technology	1
	PVC-C	16 to 225mm	16	0 to 80	PVC-C	Screwed, Solvent Weld	1
ISOTUBI	Numeppress	15 to 168.3mm	16	-20 to 110	Stainless Steel	Press-Fit (EPDM)	25
RWC	JG Speedfit	10 to 28mm	6	95	PEX	Push-Fit	50
UPONOR	MLCP	16 - 110mm	10	0 to 70 (95 peak)	Multi-layer	Press-Fit	25
VICTAULIC	Stainless	2" to 12" or 50 to 300mm	16	-34 to 110	Ductile Iron Fittings	Grooved	1
VIEGA	ProfiPress	12 to 108mm	16	-5 to 110	Copper & Gunmetal	Press Connection	25
	Sanpress Inox	15 to 108mm	16	-5 to 110	Stainless Steel	Press Connection	25
	Smartpress	16 to 63mm	10	70	Multi-layer	Press Connection	25
WAVIN	Hep2o	10 to 28mm	12 @ 20°C & 3 @ 114°C	-15 to 114	Polybutylene	Push-Fit	50

SBS SYSTEM



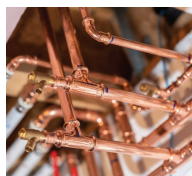
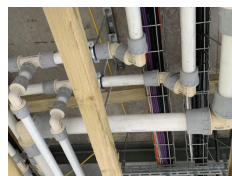
RECOMMENDATIONS

METAL
STAINLESS PRESS-FITMETAL
COPPER & CARBON
PRESS-FITPLASTIC
MULTI-LAYER FLARED
COMPRESSION

COMPRESSED AIR

MANUFACTURER	PRODUCT	SIZE	MAX PRESSURE (BAR)	TEMPERATURE (°C)	MATERIAL	JOINTING	WARRANTY (YEARS)
AALBERTS	Xpress Copper	15 to 108mm	16	-20 to 110	Copper	Press-Fit	25
	Xpress Stainless	15 to 168mm	16	-35 to 135	Stainless Steel	Press-Fit	25
	PowerPress	1/2" to 2"	16	-40 to 135	Steel	Press-Fit	5
AQUATECHNIK	Safety-Plus	16 to 75mm	20 @ 20°C & 10 @ 95°C	0 to 70 (95 peak)	Pex-Al-Pex Multi-layer	Flared Locking - Mechanical	25
CRANE	Malleable Iron (Black & Galv)	1/8" to 6"	25	-20 to 300	Malleable Iron	Screwed	1
GEORG FISCHER	ABS BS Inch	3/8" to 8"	16	-50 to 60	ABS	Screwed, Solvent Weld	1
	ELGEF Plus	20 to 1200mm	16	-40 to 65	PE 100	Weld, Electrofusion	1
	Malleable Iron (Black & Galv)	1/8" to 4"	25	-20 to 300	Malleable Iron	Screwed	1
	Instaflex	16 to 315mm	16	-10 to 95	PB	Electrofusion, Socket fusion & Compression	1
	Primofit	1/2" to 3"	10	-20 to 60	Iron	Compression	1
ISOTUBI	Numeppress	15 to 168.3mm	16	-20 to 200	Stainless Steel	Press-Fit (FKM)	25
RWC	JG Compressed Air	3 to 28mm	10	-20 to 65	Plastic & Brass	Push-Fit	2
VICTAULIC	Stainless	2" to 12" or 50 to 300mm	16	-34 to 110	Ductile Iron Fittings	Grooved	1
	Carbon Steel	1" to 24" or 25 to 600mm	24	-34 to 110	Ductile Iron Fittings	Grooved	1
VIEGA	Profitpress	12 to 108mm	16	-5 to 110	Copper & Gunmetal	Press Connection	25
	Sanpress	12 to 108mm	16	-5 to 110	Carbon Steel	Press Connection	25
	Sanpress LF	12 to 108mm	16	-5 to 110	Stainless Steel	Press Connection	25
	Sanpress Inox	15 to 108mm	16	-5 to 110	Carbon Steel	Press Connection	25
	Sanpress Inox LF	15 to 108mm	16	-5 to 110	Stainless Steel	Press Connection	25
	Megapress	1/2 " to 4"	10	-5 to 110	Steel	Press Connection	25

INSTALLATION EXAMPLES

ISOTUBI
STAINLESSFRABO
CARBONFRABO
COPPERAQUATECHNIK
MULTI-LAYER

INFORMATION BY APPLICATION

CODE	NAME	TEMPERATURE RANGE (°C)		PRESSURE RANGE (BAR)	
		MIN (°C)	MAX (°C)	MIN (BAR)	MAX (BAR)
LTHW	Low Temperature Hot Water	40	85	1	16
MTHW	Medium Temperature Hot Water	100	120	1	16
HTHW	High Temperature Hot Water	121	165	1	16
SS	Steam Systems	100	200	0.5	16
CS	Condensate Steam	96	120	1	16
DHWS	Domestic Hot Water Services	50	70	1	7
MCWS	Mains Cold Water Services	7	20	0.7	5
BCWS	Boosted Cold Water Services	7	20	2	16
TCWS	Tank Fed Cold Water Supply	7	20	0.2	3
CHW	Chilled Water	5	18	1	16
CCW	Condensate Chilled Water	7	20	0.1	1
HRW	Harvested Rain Water	7	20	0.2	10
GWR	Grey Water Recycling	7	20	0.2	10
PW	Potable Water	7	69	1	10
R	Refrigeration	-30	140	1	130
FO	Fuel Oils	5	90	0.2	5
FG	Fuel Gas	5	23	0.001	16
MG	Medical Gases	5	23	0.2	11
CA	Compressed air	7	50	1	16
FD	Fire Defence	7	20	2	16
AC	Air Conditioning	-20	140	1	130
HVAC	Heating Ventilation and Air Conditioning	-20	165	1	130

An example list of generic applications as defined by BESA and BMTFA Trade Association. These examples provide a useful set of application descriptions, together with their typical operating characteristics (pressure and temperature).

Note: Test pressures may be higher, please consult manufacturer data for final confirmation.

PIPE SUPPORT SYSTEMS

Channel	SBS Code
41 x 21 x 1.6 CORE Light Slotted Channel x 3 Mtr	TSS4213M
41 x 21 x 1.6 CORE Light Slotted Channel x 6 Mtr	TSS4216M
41 x 41 x 1.6 CORE Light Slotted Channel x 3 Mtr	TSS4413M
41 x 41 x 1.6 CORE Light Slotted Channel x 6 Mtr	TSS4416M
41 x 21 x 2.5 CORE Heavy Slotted Channel x 3 Mtr	TSS4223M
41 x 21 x 2.5 CORE Heavy Slotted Channel x 6 Mtr	TSS4226M
41 x 41 x 2.5 CORE Heavy Slotted Channel x 3 Mtr	TSS4423M
41 x 41 x 2.5 CORE Heavy Slotted Channel x 6 Mtr	TSS4426M
82 x 41 x 2.5 CORE Slotted Back to Back Channel x 3 Mtr	TSS8423MSL
82 x 41 x 2.5 CORE Slotted Back to Back Channel x 6 Mtr	TSS8426MSL
82 x 41 x 2.5 CORE Heavy Plain Back to Back Channel x 6 Mtr	TSS8426M
41 x 41 x 2.5 CORE Heavy Plain Channel x 6 Mtr	TSSP4426M

End Cap	SBS Code
41 x 21 CORE PVC Channel End Cap - Black	CEC421
41 x 21 CORE PVC Channel End Cap - White	CEC421W
41 x 41 CORE PVC Channel End Cap - Black	CEC441
41 x 41 CORE PVC Channel End Cap - White	CEC441W

Channel Nuts	SBS Code
M6 CORE Channel Slide Nut (No Spring)	TSSNM06
M8 CORE Channel Slide Nut (No Spring)	TSSNM08
M10 CORE Channel Slide Nut (No Spring)	TSSNM10
M12 CORE Channel Slide Nut (No Spring)	TSSNM12
M6 CORE Channel Nut c/w Short Spring	TSSNSM06
M8 CORE Channel Nut c/w Short Spring	TSSNSM08
M10 CORE Channel Slide Nut c/w Short Spring	TSSNSM10
M12 CORE Channel Nut c/w Short Spring	TSSNSM12
M6 CORE Channel Nut c/w Long Spring	TSSNLM06
M8 CORE Channel Slide Nut c/w Long Spring	TSSNLM08
M10 CORE Channel Slide Nut c/w Long Spring	TSSNLM10
M12 CORE Channel Slide Nut c/w Long Spring	TSSNLM12

Square Plate Washers	SBS Code
M8 CORE Square Plate Washer	TS00M08
M10 CORE Square Plate Washer	TS00M10
M12 CORE Square Plate Washer	TS00M12

Hex Full Nuts	SBS Code
M8 CORE BZP Nut	NM08
M10 CORE BZP Nut	NM10
M12 CORE BZP Nut	NM12
M16 CORE BZP Nut	NM16
M20 CORE BZP Nut	NM20
M24 CORE BZP Nut	NM24

Ball Hangers	SBS Code
M10 CORE Ball Hanger	BHM10
M12 CORE Ball Hanger	BHM12

Drop-in Anchor	SBS Code
M10 x 40mm	WAM10
M12 x 50mm	WAM12

Rod	SBS Code
M6 CORE BZP Studrod (1MT Length)	SRM061M
M8 CORE BZP Studrod (1MT Length)	SRM081M
M10 CORE BZP Studrod (1MT Length)	SRM101M
M12 CORE BZP Studrod (1MT Length)	SRM121M
M6 CORE BZP Studrod (3MT Length)	SRM063M
M8 CORE BZP Studrod (3MT Length)	SRM083M
M10 CORE BZP Studrod (3MT Length)	SRM103M
M12 CORE BZP Studrod (3MT Length)	SRM123M
M10 x 25mm CORE BZP Pre-Cut Stud	M1025PCS
M10 x 40mm CORE BZP Pre-Cut Stud	M1040PCS
M10 X 50mm CORE BZP Pre Cut Stud	M1050PCS
M10 X 60mm CORE BZP Pre Cut Stud	M1060PCS
M10 X 80mm CORE BZP Pre Cut Stud	M1080PCS
M10 x 100mm CORE BZP Pre Cut Stud	M10100PCS
M10 X 150mm CORE BZP Pre Cut Stud	M10150PCS
M10 X 200mm CORE BZP Pre Cut Stud	M10200PCS

Rod Connector	SBS Code
M8 CORE BZP Studrod Connector	SCM8
M10 CORE BZP Studrod Connector	SCM10
M12 CORE BZP Studrod Connector	SCM12
M16 CORE BZP Studrod Connector	SCM16
M8 Male x M10 Female Studding Connector	KSM9
M10 Male x M8 Female Studding Adaptor	KSM12
M12 Male x M10 Female Stud Adaptor	KSM4

Rubber lined 2-piece pipe clips	SBS Code
8nb Rubber Lined Clip M8/M10 (15-19mm)	LC008
10nb Rubber Lined Clip M8/M10 (15-19mm)	LC010
15nb Rubber Lined Clip M8/M10 (20-24mm)	LC015
20nb Rubber Lined Clip M8/M10 (26-30mm)	LC020
25nb Rubber Lined Clip M8/M10 (32-36mm)	LC025
32nb Rubber Lined Clip M8/M10 (38-43mm)	LC032
40nb Rubber Lined Clip M8/M10 (45-51mm)	LC040
54mm OD Rubber Lined Clip M8/M10 (53-59mm)	LC054
50nb Rubber Lined Clip M8/M10 (60-64mm)	LC050
65nb Rubber Lined Clip M8/M10 (75-80mm)	LC065
67mm OD Rubber Lined Clip M8/M10 (63-67mm)	LC067
80nb Rubber Lined Clip M8/M10 (88-92mm)	LC080
83mm OD Rubber Lined Clip M8/M10 (81-87mm)	LC083
100mm OD Rubber Lined Clip (99-105mm)	LC100OD
100nb Rubber Lined Clip M8/M10 (113-118mm)	LC100
108mm OD Rubber-Lined Clip M8/M10 (107-112mm)	LC108
114mm OD Rubber Lined Clip M8/M10 (113-118mm)	LC114
125mm OD Rubber Lined Clip (125 - 130mm)	LC125OD
125nb Rubber Lined Clip M8/M10 (136-140mm)	LC125
150nb Rubber Lined Clip M8/M10 (159-166mm)	LC150
200nb Rubber-Lined Clip M8/M10 (215-225mm)	LC200
250nb Rubber-Lined Clip M10 (279-284mm)	LC250

Setting Tool	SBS Code
10mm Drop-in Anchor Setting	WAM10T
12mm Drop-in Anchor Setting	WAM12T

EN1092-1 (BS4504) PN6

NOMINAL BORE	FLANGE DIAMETER (MM)	THICKNESS (MM)	BOLTS (MM)	NUMBER OF HOLES	P.C.D. (MM)
15	80	12	M10 x 45	4	55
20	90	14	M10 x 45	4	65
25	100	14	M10 x 45	4	75
32	120	14	M12 x 55	4	90
40	130	14	M12 x 55	4	100
50*	140	14	M12 x 55	4	110
65*	160	14	M12 x 55	4	130
80*	190	16	M16 x 60	4	150
100*	210	16	M16 x 60	4	170
125*	240	18	M16 x 65	8	200
150*	265	18	M16 x 65	8	225
200*	320	20	M16 x 70	8	280
250	375	22	M16 x 75	12	335
300	440	22	M20 x 75	12	395

* CORE Flange Packs available

EN1092-1 (BS4504) PN10

NOMINAL BORE	FLANGE DIAMETER (MM)	THICKNESS (MM)	BOLTS (MM)	NUMBER OF HOLES	P.C.D. (MM)
15	95	14	M12 x 55	4	65
20	105	16	M12 x 55	4	75
25	115	16	M12 x 55	4	85
32	140	16	M16 x 60	4	100
40	150	16	M16 x 60	4	110
50	165	18	M16 x 65	4	125
65	185	18	M16 x 65	4	145
80	200	20	M16 x 70	8	160
100	220	20	M16 x 70	8	180
125	250	22	M16 x 70	8	210
150	285	22	M20 x 70	8	240
200	340	24	M20 x 80	8	295
250	395	26	M20 x 80	12	350
300	445	26	M20 x 80	12	400

EN1092-1 (BS4504) PN16

NOMINAL BORE	FLANGE DIAMETER (MM)	THICKNESS (MM)	BOLTS (MM)	NUMBER OF HOLES	P.C.D. (MM)
15	95	14	M12 x 55	4	65
20	105	16	M12 x 55	4	75
25	115	16	M12 x 55	4	85
32	140	16	M16 x 60	4	100
40	150	16	M16 x 60	4	110
50*	165	18	M16 x 65	4	125
65*	185	18	M16 x 65	4	145
80*	200	20	M16 x 70	8	160
100*	220	20	M16 x 70	8	180
125*	250	22	M16 x 70	8	210
150*	285	22	M20 x 70	8	240
200*	340	24	M20 x 80	12	295
250	405	26	M24 x 90	12	355
300	460	28	M24 x 90	12	410

* CORE Flange Packs available

EN1092-1 (BS4504) PN25

NOMINAL BORE	FLANGE DIAMETER (MM)	THICKNESS (MM)	BOLTS (MM)	NUMBER OF HOLES	P.C.D. (MM)
15	95	16	M12 x 55	4	65
20	105	18	M12 x 60	4	75
25	115	18	M12 x 60	4	85
32	140	18	M16 x 65	4	100
40	150	18	M16 x 65	4	110
50	165	20	M16 x 70	4	125
65	185	22	M16 x 75	8	145
80	200	24	M16 x 80	8	160
100	235	24	M20 x 80	8	190
125	270	26	M24 x 85	8	220
150	300	28	M24 x 90	8	250
200	360	32	M24 x 100	12	310
250	425	40	M27 x 120	12	370
300	485	48	M27 x 140	16	430

EN1092-1 (BS4504) PN40

NOMINAL BORE	FLANGE DIAMETER (MM)	THICKNESS (MM)	BOLTS (MM)	NUMBER OF HOLES	P.C.D. (MM)
15	95	14	M12 x 55	4	65
20	105	18	M12 x 60	4	75
25	115	18	M12 x 60	4	85
32	140	18	M16 x 65	4	100
40	150	18	M16 x 65	4	110
50	165	20	M16 x 70	4	125
65	185	22	M16 x 75	8	145
80	200	24	M16 x 80	8	160
100	235	24	M20 x 80	8	190
125	270	26	M24 x 85	8	220
150	300	28	M24 x 90	8	250
200	375	32	M27 x 100	12	320
250	450	40	M30 x 120	12	385
300	515	48	M30 x 140	16	450

EN1092-1 (BS4504) PN64

NOMINAL BORE	FLANGE DIAMETER (MM)	THICKNESS (MM)	BOLTS (MM)	NUMBER OF HOLES	P.C.D. (MM)
15	105	20	M12 x 65	4	75
20	130	22	M16 x 75	4	90
25	140	24	M16 x 80	4	100
32	155	24	M20 x 80	4	110
40	170	26	M20 x 85	4	125
50	180	26	M20 x 85	4	135
65	205	26	M20 x 85	8	160
80	215	30	M20 x 90	8	170
100	250	32	M24 x 95	8	200
125	295	34	M27 x 110	8	240
150	345	36	M30 x 120	8	280
200	415	46	M33 x 130	12	345
250	470	54	M33 x 140	12	400
300	530	62	M33 x 160	16	460

BS10 TABLE D

NOMINAL BORE	FLANGE DIAMETER (MM)	THICKNESS (MM)	BOLTS (MM)	NUMBER OF HOLES	P.C.D. (MM)
15	95	5	M12 x 40	4	67
20	102	5	M12 x 40	4	73
25	114	5	M12 x 40	4	83
32	121	6	M12 x 40	4	87
40	133	6	M12 x 40	4	98
50	152	8	M16 x 45	4	114
65	165	8	M16 x 45	4	127
80	184	10	M16 x 50	4	146
100	216	10	M16 x 50	4	178
125	254	13	M16 x 55	8	210
150	279	13	M16 x 55	8	235
200	337	13	M16 x 55	8	292
250	406	16	M20 x 60	8	356
300	457	20	M20 x 65	12	406

BS10 TABLE E

NOMINAL BORE	FLANGE DIAMETER (MM)	THICKNESS (MM)	BOLTS (MM)	NUMBER OF HOLES	P.C.D. (MM)
15	95	6	M12 x 40	4	67
20	102	6	M12 x 40	4	73
25	114	7	M12 x 40	4	83
32	121	8	M12 x 40	4	87
40	133	9	M12 x 45	4	98
50	152	10	M16 x 50	4	114
65	165	10	M16 x 50	4	127
80	184	11	M16 x 50	4	146
100	216	13	M16 x 55	8	178
125	254	14	M16 x 60	8	210
150	279	18	M20 x 65	8	235
200	337	19	M20 x 70	8	292
250	406	22	M20 x 75	12	356
300	457	25	M22 x 80	12	406

BS10 TABLE F

NOMINAL BORE	FLANGE DIAMETER (MM)	THICKNESS (MM)	BOLTS (MM)	NUMBER OF HOLES	P.C.D. (MM)
15	95	10	M12 x 45	4	67
20	102	10	M12 x 45	4	73
25	121	10	M16 x 50	4	87
32	133	13	M16 x 55	4	98
40	140	13	M16 x 55	4	105
50	165	16	M16 x 60	4	127
65	184	16	M16 x 60	8	146
80	203	16	M16 x 60	8	165
100	229	19	M16 x 70	8	191
125	279	22	M20 x 75	8	235
150	305	22	M20 x 75	12	260
200	368	25	M20 x 80	12	324
250	432	29	M22 x 90	12	381
300	489	32	M22 x 100	16	438

BS10 TABLE H

NOMINAL BORE	FLANGE DIAMETER (MM)	THICKNESS (MM)	BOLTS (MM)	NUMBER OF HOLES	P.C.D. (MM)
15	114	13	M16 x 55	4	83
20	114	13	M16 x 55	4	83
25	121	14	M16 x 60	4	87
32	133	18	M16 x 65	4	98
40	140	18	M16 x 65	4	105
50	165	19	M16 x 70	4	127
65	184	19	M16 x 70	8	146
80	203	22	M16 x 75	8	165
100	229	25	M20 x 80	8	191
125	279	29	M20 x 90	8	235
150	305	29	M20 x 90	12	260
200	368	32	M20 x 90	12	324
250	432	35	M22 x 100	12	381
300	489	41	M22 x 110	16	438

ANSI B16.5 (BS1560) ASA150

NOMINAL BORE	FLANGE DIAMETER (MM)	THICKNESS (MM)	BOLTS (MM)	NUMBER OF HOLES	P.C.D. (MM)
15	89	11	M12 x 45	4	60
20	95	13	M12 x 50	4	70
25	108	14	M12 x 50	4	79
32	117	16	M12 x 55	4	89
40	127	17	M12 x 60	4	98
50	152	19	M16 x 70	4	121
65	178	22	M16 x 75	4	140
80	191	24	M16 x 80	4	152
100	229	24	M16 x 80	8	191
125	254	24	M20 x 80	8	216
150	279	25	M20 x 80	8	241
200	343	29	M20 x 90	8	298
250	406	30	M24 x 90	12	362
300	483	32	M24 x 95	12	432

ANSI B16.5 (BS1560) ASA300

NOMINAL BORE	FLANGE DIAMETER (MM)	THICKNESS (MM)	BOLTS (MM)	NUMBER OF HOLES	P.C.D. (MM)
15	95	14	M12 x 45	4	67
20	117	16	M16 x 50	4	83
25	124	18	M16 x 50	4	89
32	133	19	M16 x 55	4	98
40	156	21	M20 x 60	4	114
50	165	22	M16 x 70	8	127
65	191	25	M20 x 75	8	149
80	210	29	M20 x 80	8	168
100	254	32	M20 x 80	8	200
125	279	35	M20 x 80	8	235
150	318	37	M20 x 80	12	270
200	381	41	M24 x 90	12	330
250	445	48	M27 x 90	16	387
300	521	51	M30 x 95	16	451

ISO3183/API5L LINE PIPE DIMENSIONS (MM)

NOMINAL BORE (IN)	OUTSIDE DIAMETER (MM)	SCHEDULE						
		5S	10S	10	20	30	STD & 40S	40
	10.3		1.24				1.73	1.73
¼	13.7		1.65				2.24	2.24
	17.1		1.65				2.31	2.31
½	21.3	1.65	2.11				2.77	2.77
¾	26.7	1.65	2.11				2.87	2.87
1	33.4	1.65	2.77				3.38	3.38
1 ¼	42.2	1.65	2.77				3.56	3.56
1 ½	48.3	1.65	2.77				3.68	3.68
2	60.3	1.65	2.77				3.91	3.91
2 ½	73	2.11	3.05				5.16	5.16
3	88.9	2.11	3.05				5.49	5.49
4	114.3	2.11	3.05				6.02	6.02
5	141.3	2.77	3.40				6.55	6.55
6	168.3	2.77	3.40				7.11	7.11
8	219.1	2.77	3.76		6.35	7.04	8.18	8.18
10	273	3.40	4.19		6.35	7.80	9.27	9.27
12	323.9	3.96	4.57		6.35	8.38	9.52	10.31
14	355.6	3.96	4.78	6.35	7.92	9.52	9.52	11.13
16	406.4	4.19	4.78	6.35	7.92	9.52	9.52	11.13
18	457.2	4.19	4.78	6.35	7.92	11.13	9.52	14.27
20	508	4.78	5.54	6.35	9.52	12.70	9.52	15.09
22	558.8	4.78	5.54	6.35	9.52	12.70	9.52	15.88
24	609.6	5.54	6.35	6.35	9.52	14.27	9.52	17.48
26	660.4			7.92	12.70		9.52	
28	711.2			7.92	12.70	15.88	9.52	
30	762.8	6.35	7.92	7.92	12.70	15.88	9.52	
32	812.8			7.92	12.70	15.88	9.52	17.48
34	863.6			7.92	12.70	15.88	9.52	17.48
36	914.4			7.92	12.70	15.88	9.52	19.05

	60	XS & 80S	80	100	120	140	160	XXS
		2.41	2.41					
		3.02	3.02					
		3.20	3.20					
		3.73	3.73				4.78	7.47
		3.91	3.91				5.56	7.82
		4.55	4.55				6.35	9.09
		4.85	4.85				6.35	9.70
		5.08	5.08				7.14	10.16
		5.54	5.54				8.74	11.07
		7.01	7.01				9.52	14.02
		7.62	7.62				11.13	15.24
		8.56	8.56		11.13		13.49	17.12
		9.52	9.52		12.70		15.88	19.05
		10.97	10.97		14.27		18.26	21.95
	10.31	12.70	12.70	15.09	18.26	20.62	23.01	22.22
	12.70	12.70	15.09	18.26	21.44	25.40	28.58	25.40
	14.27	12.70	17.47	21.44	25.40	28.38	33.34	25.40
	15.09	12.70	19.05	23.82	27.79	31.75	35.71	
	15.09	12.70	21.44	26.19	30.96	36.52	40.49	
	19.05	12.70	23.82	29.36	34.92	39.69	45.24	
	20.62	12.70	26.19	32.54	38.10	44.45	50.01	
	22.22	12.70	28.58	34.92	41.28	47.62	53.98	
	24.61	12.70	30.96	38.89	46.02	52.39	59.54	
		12.70						
		12.70						
		12.70						
		12.70						
		12.70						
		12.70						

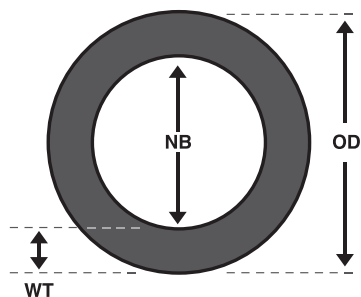
BS EN 10255 & 10217-2 (BS1387) TUBE SIZE

NOMINAL BORE		OUTSIDE DIAMETER		MEDIUM WALL THICKNESS		HEAVY WALL THICKNESS	
(MM)	(INCHES)	(MM)	(INCHES)	(MM)	(INCHES)	(MM)	(INCHES)
6		10.2	0.405	2.0	0.082		
8	¼	13.5	0.540	2.35	0.092	2.9	0.116
10		17.2	0.675	2.35	0.092	2.9	0.116
15	½	21.3	0.840	2.65	0.104	3.25	0.128
20	¾	26.9	1.050	2.65	0.104	3.25	0.128
25	1	33.7	1.315	3.25	0.128	4.05	0.16
32	1 ¼	42.4	1.660	3.25	0.128	4.05	0.16
40	1 ½	48.3	1.900	3.25	0.128	4.05	0.16
50	2	60.3	2.375	3.65	0.144	4.5	0.176
65	2 ½	76.1	3.000	3.65	0.144	4.5	0.176
80	3	88.9	3.500	4.05	0.16	4.85	0.192
100	4	114.3	4.500	4.5	0.176	5.4	0.212
125	5	139.7	5.500	4.85	0.192	5.4	0.212
150	6	165.1	6.500	4.85	0.192	5.4	0.212

BS EN 10255 & 10217-2 (BS1387) TUBE WEIGHTS

NOMINAL BORE		MEDIUM		HEAVY		SCHEDULE	
(MM)	(INCHES)	KG'S PER METRE	METRE'S PER TONNE	LENGTH'S PER TONNE	KG'S PER METRE	METRE'S PER TONNE	LENGTH'S PER TONNE
8	¼	0.645	1550	238.5			
10		0.845	1183	182.0			
15	½	1.220	820	126.2	1.449	690	106.2
20	¾	1.570	637	98.0	1.880	532	81.8
25	1	2.427	412	63.4	2.959	338	52.0
32	1 ¼	3.135	319	49.1	3.831	261	40.2
40	1 ½	3.610	277	42.6	4.425	226	34.8
50	2	5.102	196	30.2	6.250	160	24.6
65	2 ½	6.536	153	23.5	8.065	124	19.1
80	3	8.547	117	18.0	10.526	95	14.6
100	4	12.500	80	12.3	14.706	68	10.5
125	5	17.241	58	8.9	18.519	54	8.3
150	6	20.408	49	7.5	21.739	46	7.1

TUBE SIZING EXPLAINED



KEY:

NB = NOMINAL BORE
(INNER DIAMETER OF TUBE)
WT = WALL THICKNESS OF TUBE
OD = OUTSIDE DIAMETER OF TUBE

WEIGHT OF MILD STEEL TUBE

$$\text{OD (mm)} - \text{WT (mm)} \times \text{WT(mm)} \div 40.5 = \text{Kg/Metre}$$

Example;

8" nb Schedule 20 API 5L seamless tube has an OD of 219.10mm and a WT of 6.35mm, therefore:

$$219.10 - 6.35 \times 6.35 \div 40.5 = 33.36 \text{ Kg/Metre}$$

CALCULATION OF OUTSIDE DIAMETER

$$\text{OD CALCULATION} = \text{NB} + (2 \times \text{WT})$$

BUTTERFLY VALVES - SET BOLTS

SEMI-LUGGED			FULLY-LUGGED		
SIZE (INCHES)	BOLTS (MM)	NUMBER OF HOLES	SIZE (INCHES)	BOLTS (MM)	NUMBER OF HOLES
2	M16 x 105	4	2	M16 x 35	8
2 ½	M16 x 105	4	2 ½	M16 x 35	8
3	M16 x 105	4	3	M16 x 35	16
4	M16 x 115	8	4	M16 x 40	16
5	M16 x 115	8	5	M16 x 40	16
6	M20 x 120	8	6	M20 x 50	16
8	M20 x 140	8	8	M20 x 50	16
10	M24 x 155	12	10	M24 x 55	24
12	M24 x 170	12	12	M24 x 60	24

MECHANICAL PROPERTIES OF COPPER TUBE TO EN 1057

TEMPERATURE	NOM. DIA. (OUTSIDE)	MPA*	MINIMUM ELONGATION	HARDNESS**
R220 Annealed	6 to 54mm	220	40%	40 to 70
R250 Half Hard	6 to 66.7mm	250	30% #	75 to 100
R250 Half Hard	6 to 159mm	250	20% #	75 to 100
R290 Hard	6 to 267mm	290	3%	100 min

Note: Elongations for half hard tubes depend on the ratio of outside diameter to wall thickness

* MPa: Minimum tensile strength

** Hardness HV/5 indicative

COPPER TUBE EN 1057 - TYPE Y (BS 2871)

SIZE/OUTSIDE DIAMETER	NOMINAL WALL THICKNESS	MAX. WORKING PRESSURES*		
		HALF HARD (R250)	HARD (R290)	ANNEALED (R220)
		(BAR†)	(BAR†)	(BAR†)
(MM)	(MM)			
6	0.8	188	223	144
8	0.8	136	161	105
10	0.8	106	126	82
12	0.8	87	104	67
15	1.0	87	104	67
18	1.0	72	85	55
22	1.2	69	84	53
28	1.2	55	65	42
35	1.5	54	65	41
42	1.5	45	54	34
54	2.0	47	56	36
66.7	2.0	37	45	28
76.1	2.0	33	39	25
108	2.5	29	34	22

* Based on designated temperature 65°C

† 1 bar = 0.1N/mm² = 10² N/m²

Usage: Underground works and heavy duty requirements including hot and cold water supply, gas reticulation, sanitary plumbing, heating and general engineering.

ADDED TOUGHNESS & DURABILITY

COPPER TUBE EN 1057 - TYPE X (BS 2871)

SIZE/OUTSIDE DIAMETER (MM)	NOMINAL WALL THICKNESS (MM)	MAX. WORKING PRESSURES*		
		HALF HARD (R250)	HARD (R290)	ANNEALED (R220)
		(BAR†)	(BAR†)	(BAR†)
6	0.6	133	161	102
8	0.6	97	118	75
10	0.6	77	93	59
12	0.6	63	76	48
15	0.7	58	71	45
18	0.8	56	67	43
22	0.9	51	62	39
28	0.9	40	48	31
35	1.2	42	51	33
42	1.2	35	43	27
54	1.2	27	33	21
66.7	1.2	20	27	17
76.1	1.5	24	29	18
108	1.5	17	20	13
133	1.5	14	17	10
159	2.0	15	18	12

* Based on designated temperature 65°C

† 1 bar = 0.1N/mm² = 10⁵ N/m²

Usage: Underground works and heavy duty requirements including hot and cold water supply, gas reticulation, sanitary plumbing, heating and general engineering.

ADDED TOUGHNESS & DURABILITY



JOINTING GUIDE

PRODUCT	KEY INFORMATION	POTABLE WATER	NON-POTABLE WATER	COMPRESSED AIR	NATURAL & TOWN GAS	LPG (GAS)	OIL & PETROL	STEAM
CORE White	up to 150°C up to 7bar		◆	◆	◆			◆
CORE PTFE (white)	-200°C to 260°C up to 30 bar	◆	◆					
CORE PTFE (yellow)	-200°C to 260°C up to 100 bar		◆		◆	◆	◆	
CORE Solder Wire (Lead-Free)		◆	◆					
CORE Pipe Sealing Cord	150°C		◆	◆	◆	◆	◆	
CORE SH27 Adhesive	-50°C to 150°C up to 24 bar	◆	◆		◆	◆		◆
CORE Hemp	135°C	◆	◆	◆				◆
Stag White Universal	260°C	◆	◆	◆	◆	◆	◆	◆
Stag A	up to 1/2" & -40°C to 400°C		◆	◆	◆		◆	◆
Stag B	1/2" to 1.1/2" & -40°C to 650°C		◆	◆	◆		◆	◆
Stag Plast-Coil x10G	-40°C to 150°C up to 10 bar		◆	◆	◆		◆	◆
Rocal Gasseal	-20°C to 125°C				◆	◆	◆	
Yorkshire Traditional Flux			◆		◆			
Lawton Flux	65°C to 300°C	◆	◆		◆			
Powerflow Flux		◆	◆					
Jet-Lube V-2 Plus	-45°C to 260°C, up to 680 bar liquids & 137 bar gases (taper/taper only)	◆	◆	◆	◆		◆	
La-co Slic-tite	-45°C to 260°C, up to 680 bar liquids & 204 bar gases	◆	◆	◆	◆	◆	◆	◆
La-co Flux		◆	◆					

PIPE JOINTING METHODS AND SURFACE PREP

JOINTING EXAMPLES

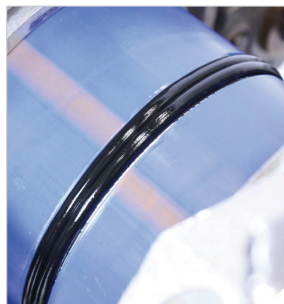
MECHANICAL



ELECTROFUSION



BUTT-FUSION

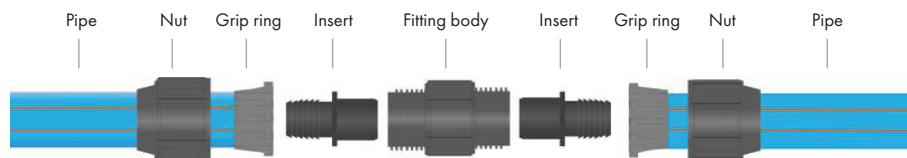


PIPE DIAMETER (mm)	MECHANICAL COMPRESSION	ELECTROFUSION	BUTT-FUSION
	SDR 11	SDR 11, SDR 17	SDR11
25	◆ *		
32	◆ *		
63	◆ *		
90		◆ **	◆ **
110		◆ **	◆ **
125		◆ **	◆ **
160		◆ **	◆ **
180		◆ **	◆ **

* No pipe surface preparation required. Ensure the pipe outer surface is clean and free from damage

** Pipe surface preparation mandatory

MECHANICAL



1
Ensure the pipe is cut square and is damage free. Re-round if necessary. Slide the nut and grip ring on the pipe.



2
Using a rubber mallet, gently tap the insert fully into the pipe end.



3
Push the pipe with the insert fully into the body of the fitting.



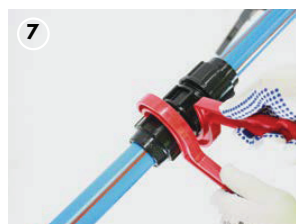
4
Slide the grip ring so it is flush with the pipe insert.



5
Hand tighten the nut onto the body of the fitting.



6
Repeat steps 1 to 5 for the second pipe to be joined.



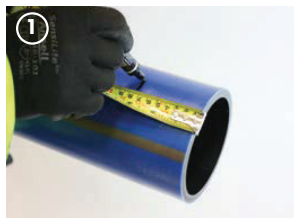
7
Using C ring wrenches fully tighten the nuts onto the body of the fitting.



8
The joint is complete. Carry out a water industry approved joint pressure test to check for leak-tightness. There is no requirement to wrap the finished joint.

ELECTROFUSION

Pipe preparation is mandatory before carrying out an electrofusion joint. A 2-pass pipe surface preparation process is required for jointing.

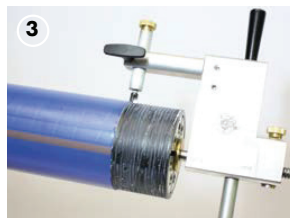


Ensure the pipe surface is clean and free from damage. Re-round if necessary. Measure and mark the fitting insertion depth on the pipe.



First pass

Select the correct size tooling and 'domino' spot cutting blade and carry out the first pass of the pipe surface preparation.

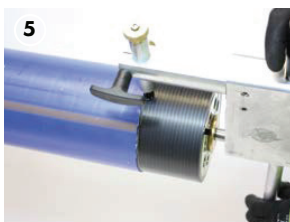


Rotate the tool anti-clockwise to remove the outer PE and aluminium layers up to the fitting insertion depth mark.



Second pass

Select the standard pipe preparation blade to carry out the second pass of the pipe surface preparation.



Rotate the tool continuously in an anti-clockwise direction. This will remove a continuous layer of polyethylene swarf. Please keep the environment clean, by removing all pipe shavings and offcuts and dispose of them responsibly.



Place the fitting on the pipe end as shown. To avoid contamination, keep the fitting in its packaging until you are ready to insert the second pipe.



Repeat the pipe surface preparation for the second pipe to be joined and fully insert into the fitting.



Fit alignment clamps and follow industry best practice to fuse the fitting. There is no requirement to wrap the finished joint.

Important note

The pipe's prepared surface should be equal to the socket insertion depth.

DO NOT scrape beyond the fitting's socket insertion depth.

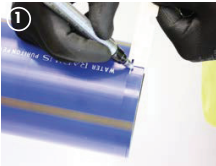
BUTT-FUSION

Pipe preparation is mandatory before carrying out a butt-fusion joint. A 2-pass pipe surface preparation process is required for jointing.

BUTT-FUSION PREPARATION

This table provides measurements to enable correct pipe preparation prior to butt-fusion welding.

PIPE DIAMETER (MM)	SKIN REMOVED TOLERANCE ±1MM	EXPOSED CORE PIPE LENGTH AFTER TRIM ±1MM	FINAL BEAD WIDTH TOLERANCE MIN - MAX
90	11	7	8 - 18
110	11	7	9 - 16
125	13	8	9 - 16
160	14	9	9 - 16
180	15	10	7 - 17



Ensure the pipe surface is clean and free from damage. Re-round if necessary. Mark the minimum pipe preparation distance using a butt-fusion gauge.



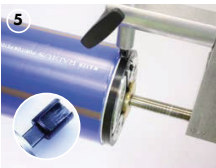
First pass
Select the correct size tooling and 'domino' spot cutting blade and carry out the first pass of the pipe surface preparation.



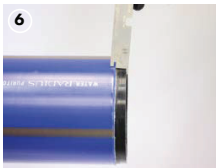
Rotate the tool anti-clockwise, to remove the outer PE and aluminium layers up to depth mark.



Second pass
Select the standard pipe preparation blade to carry out the second pass of the pipe surface preparation.



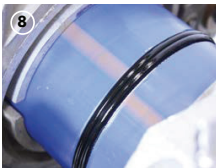
Rotate the tool continuously in an anti-clockwise direction. This will remove a continuous layer of polyethylene swarf. Please keep the environment clean, by removing all pipe shavings and offcuts and dispose of them responsibly.



Check the correct pipe surface distance using a butt-fusion gauge. Prepare the second pipe following steps 1 to 5.



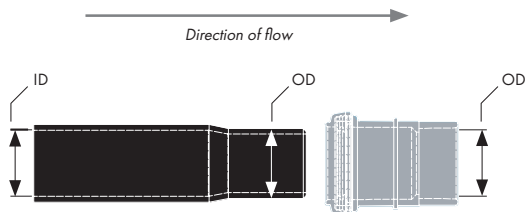
Follow the water industry standard butt-fusion procedure. Program the butt-fusion unit with the correct pipe parameters.



Finished joint. Remove the external bead and perform a bend back test to assess the joint quality. There is no requirement to wrap the finished joint.

TERRAIN JOINTING GUIDE

A useful reference for connecting from different pipe materials products to Terrain Drainage products.

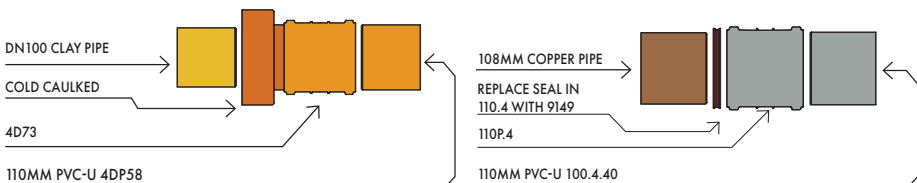
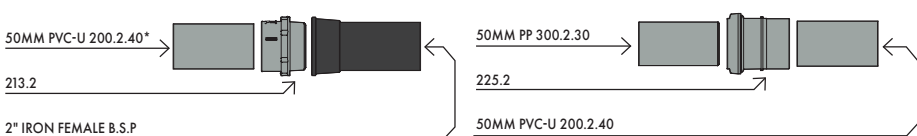
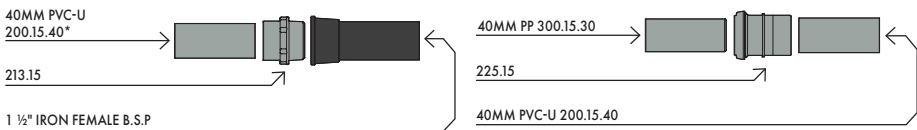
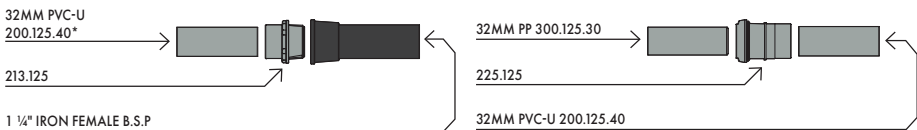
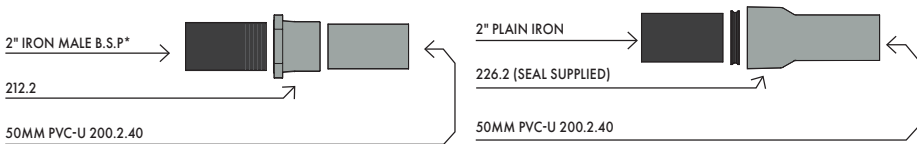
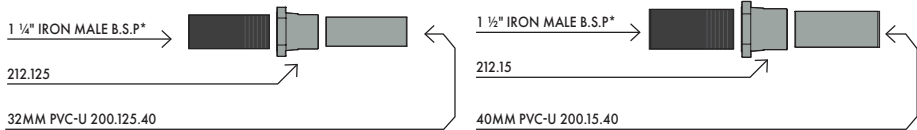
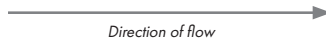


OD & ID OF DIFFERENT MATERIALS

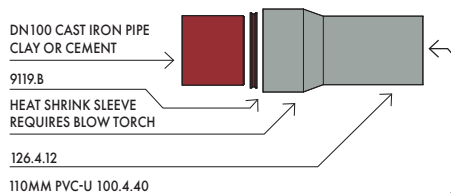
OD	1 ¼"	1 ½"	2"	3"	4"	6"
PVC-u	36mm	43mm	56mm	82mm	110mm	160mm
PP	35mm	41mm	54mm			
FUZE (HDPE)	40mm	50mm	56mm	75mm	110mm	160mm
Terrain Q	40mm		50mm		110mm	160mm
Iron	42mm	47.8mm	60mm			
Copper	35mm	42mm	54mm		108mm	
Clay					100mm	
Vulcathene		48mm	60mm	89mm	114mm	
Cast Iron					112mm	
Chrome	32mm					

ID	1 ¼"	1 ½"	2"	3"	4"	6"
PVC-u	32mm	39mm	52mm	76mm	104mm	154mm
PP	31mm	37mm	50mm			
FUZE (HDPE)	34mm	44mm	49.5mm	69mm	101mm	148mm
Terrain Q	36mm		46mm		104mm	153mm
Iron	32mm	38mm	50mm			
Copper	32mm	39mm	51mm		104mm	
Clay					76mm	
Vulcathene		38mm	51mm	75mm	102mm	
Cast Iron					98mm	
Chrome	28mm					

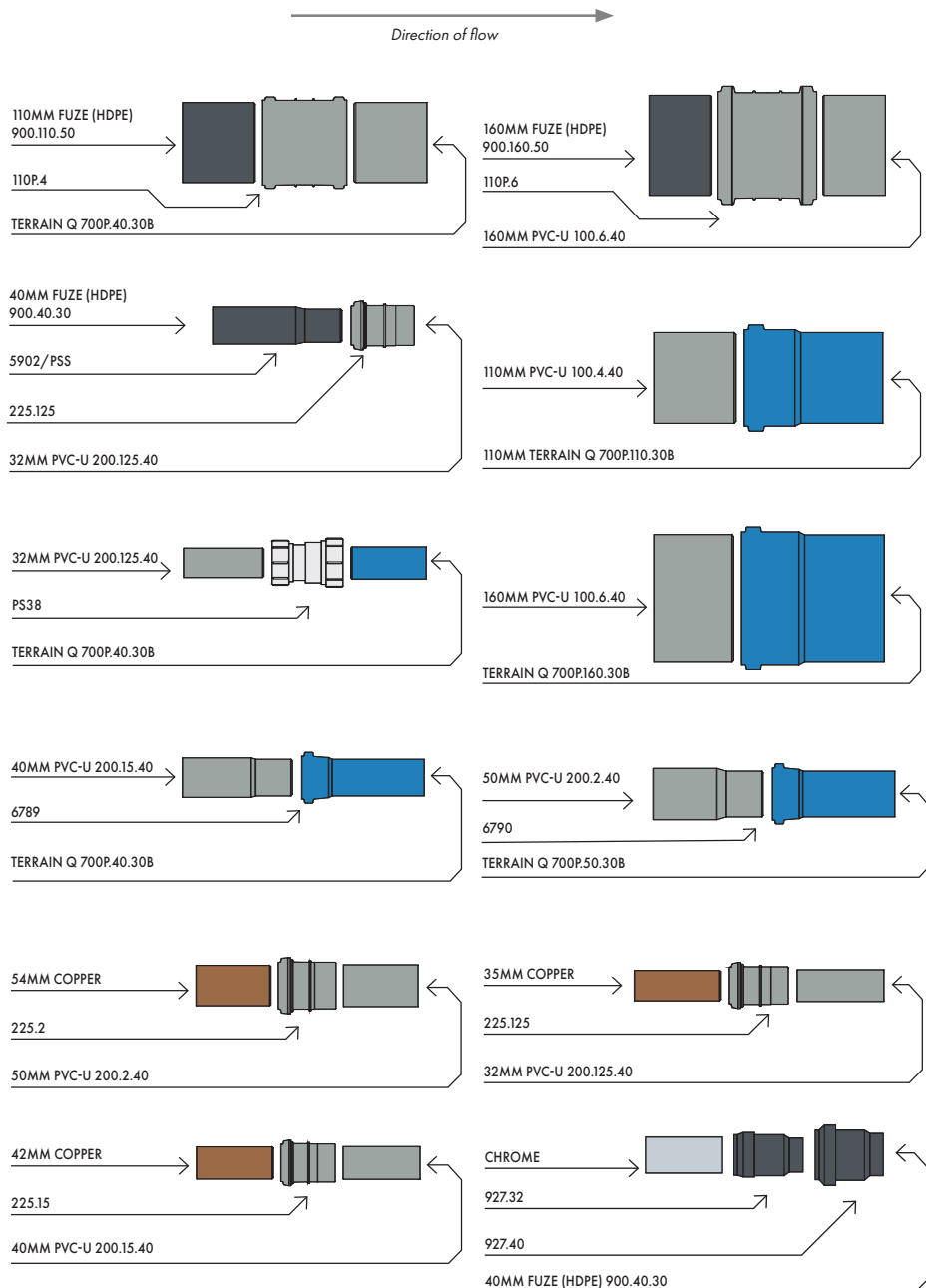
TERRAIN JOINTING GUIDE



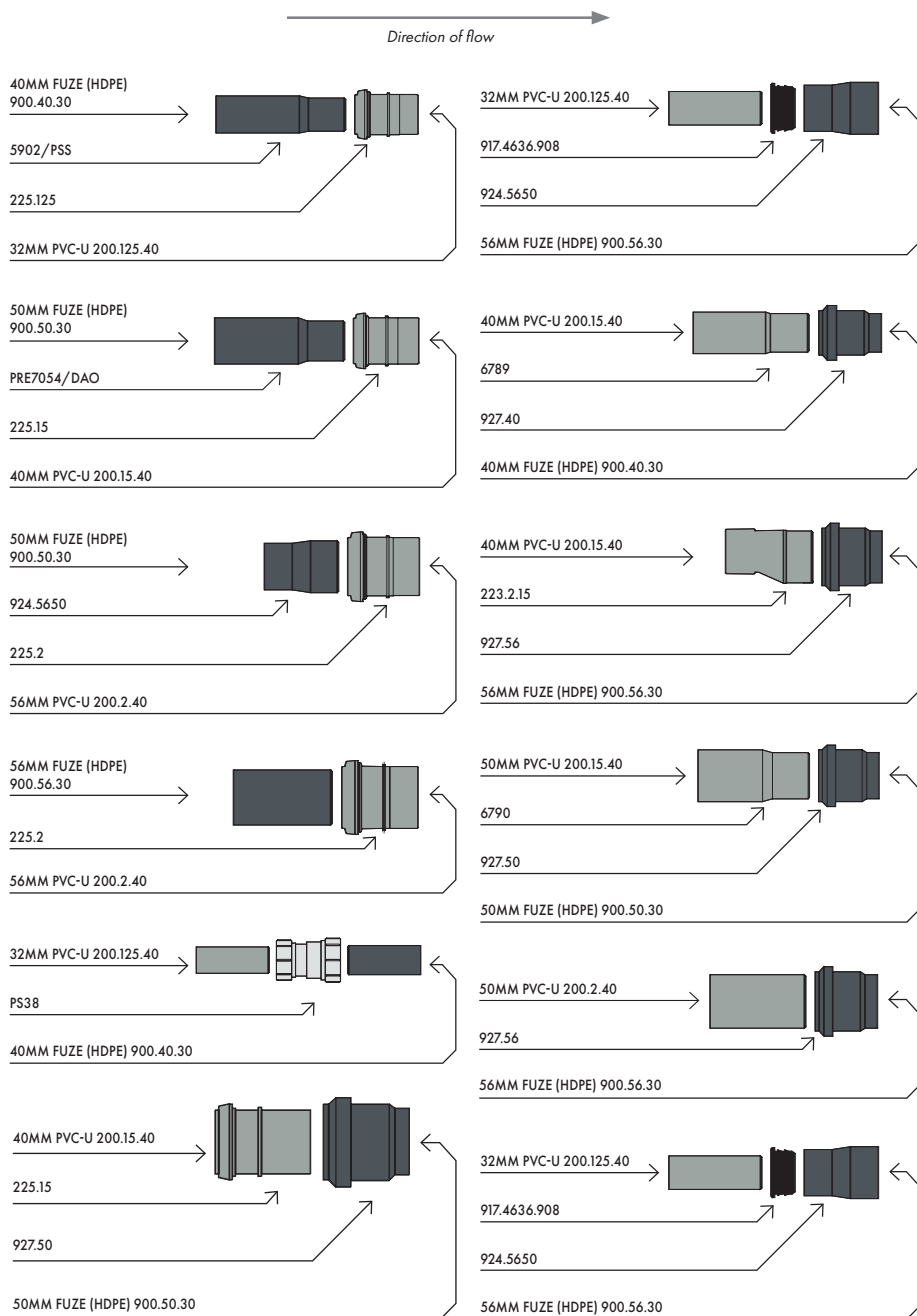
* Use PTFE on threads



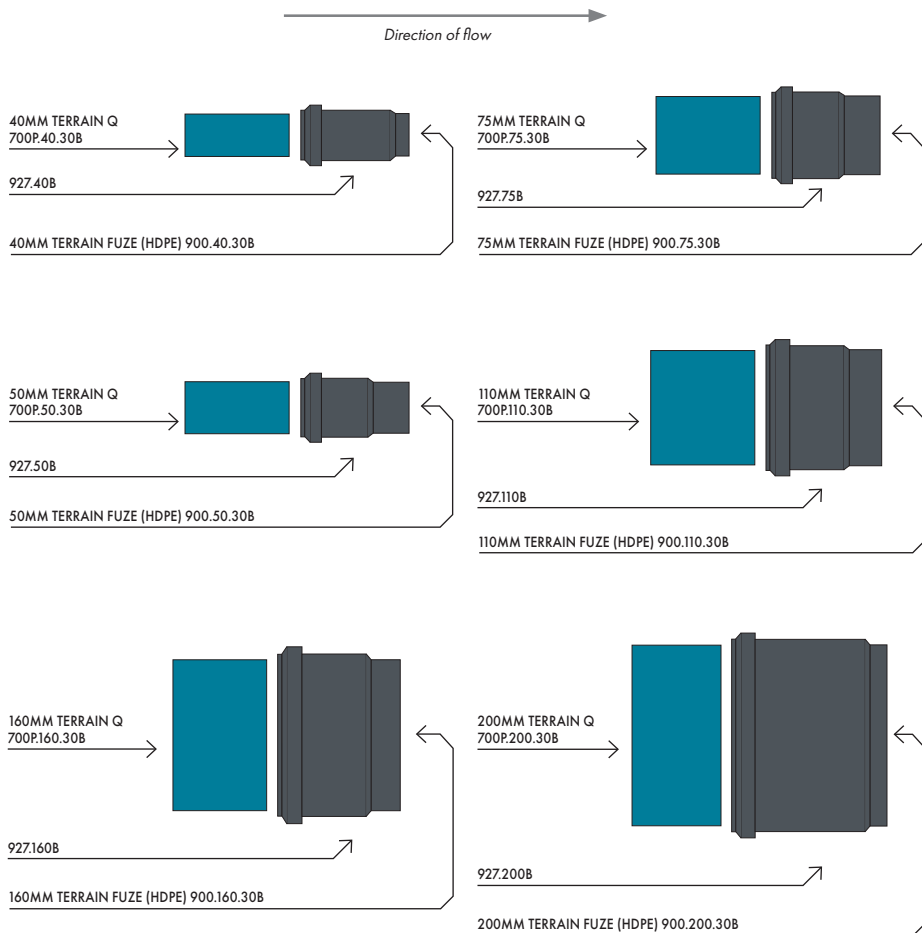
TERRAIN JOINTING GUIDE



TERRAIN JOINTING GUIDE



TERRAIN JOINTING GUIDE



NOTE: Pipes to be chamfered and lubricated when being used with ring seal, use 9136.250L Silicone grease.

REFERENCES: 1. Terrain Soil and Waste Product Installation 2. BSEN12056 Gravity drainage systems inside buildings Sanitary pipework, layout and calculation.

If in doubt ask Terrain technical on 01622 795200 or commercial.technical@polypipe.com

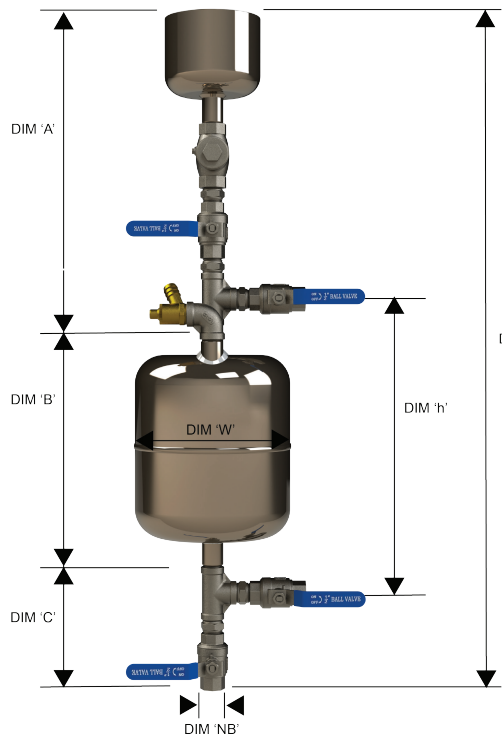
MALLEABLE

PRESSURE (BAR)				SERVICE TEMPERATURE (°C)			
25				-20 TO 120			
20				-20 TO 320			
CRANE	GF	SBS	DESCRIPTION	CRANE	GF	SBS	DESCRIPTION
140	241	140	Bush	185	300	185	Cap
144	280	144	Hex Nipple	191	3		Male Bend
145	245	145	Red Hex Nipple	192	1a	192	M&F Bend S/R
	290		Beaded Plug		1		M&F Bend L/R
147	291	147	Hollow Plug	193	2a	193	Bend S/R
148	291S	148	Solid Plug		2		Bend L/R
149	596	149	C/Sunk Plug	197	132		Twin Elbow
150	312	150	Backnut		40		M&F 45 Bend
151	90	151	Elbow	199	131	199	Sweep Tee
152	92	152	M&F Elbow	213	60		Return Bend
	94		Male Elbow	241	330		Union Flat Seat
155	120	155	45 Elbow	256	340	256	Union Cone Seat
156	121	156	45 M&F Elbow	257	341	257	M&F Union Cone Seat
161	130	161	Tee	261	96		Union Elbow
163			M&F Tee	262	98		M&F Union Elbow
171	180		Cross	271	342	271	Union (Br-IR)
176	270		Socket-Parallel	272			M&F Union (BR-IR)
177			Socket-Taper	276			Union Elbow (BR-IR)
179	240		Con Socket				M&F Union Elbow (BR-IR)
	246		M&F Socket	289	342a	289	Union (BR-BR) (Navy)
180	260		ECC Socket	290	346		Mac Union

CSST

	SIZE	GASTITE	GFS	TRACPIPE
Coupling	DN15	GTC015	GFSC015	TPC015
	DN20	GTC020	GFSC020	TPC022
	DN25	GTC025	GFSC025	TPC028
	DN32	GTC032	GFSC032	TPC032
	DN40	GTC040	GFSC040	TPC040
	DN50	GTC050	GFSC050	TPC050
Adaptor to BSP	DN15 x 1/2"	GTMA015	GF SMA015	TPAF015
	DN20 x 3/4"	GTMA020	GF SMA020	TPAF022
	DN25 x 1"	GTMA025	GF SMA025	TPAF028
	DN32 x 1 1/4"	GTMA032	GF SMA032	TPAF032
	DN40 x 1 1/2"	GTMA040	GF SMA040	TPAF040
Adaptor to Copper	DN15 x 15mm	GTCCU015	GFSCCU015	TPCCU015015
	DN20 x 15mm	GTCCU020015	GFSCCU020015	TPCCU022015
	DN20 x 22mm	GTCCU020022	GFSCCU020022	TPCCU022022
	DN25 x 22mm	GTCCU025022	GFSCCU025022	TPCCU028022
	DN25 x 28mm	GTCCU025028	GFSCCU025028	TPCCU028028
	DN32 x 22mm	GTCCU032022	GFSCCU032022	TPCCU032022
	DN32 x 35mm	GTCCU032035	GFSCCU032035	TPCCU032035
CSST Coil (75Mtr)	15mm x 75mtr	GT015075	GFSPM015075	TP015075
	20mm x 75mtr	GT020075	GFSPM020075	TP022075 (DN22)
	25mm x 75mtr	GT025075	GFSPM025075	TP028090 (DN28 x 90m)
	32mm x 75mtr	GT032075	GFSPM032075	TP032075
	40mm x 75mtr	GT040075	GFSPM040075	TP040075

CORE DOSING POT DIMENSIONS



PLEASE NOTE:
ALL DIMENSIONS
ARE FOR GUIDANCE
ONLY

SIZE	CONNECTION SIZE (NB)	DIM A	DIM B	DIM C	DIM W	DIM H	DIM h	WEIGHT (FULL)	MAX WORK- ING RESSURE
3.5L	1/2"	285mm	260mm	130mm	162mm	675mm	310mm	9kgs	10Bar
6L	1/2"	285mm	260mm	130mm	215mm	675mm	310mm	14kgs	10Bar
11L	1/2"	285mm	410mm	130mm	215mm	825mm	460mm	21kgs	10Bar
18L	1/2"	285mm	460mm	130mm	260mm	875mm	510mm	30kgs	7Bar
25L	1/2"	285mm	590mm	130mm	260mm	1005mm	640mm	40kgs	7Bar



CORE BALL & BUTTERFLY VALVES

	CORE 171A (DZR Brass)	CORE 171AC (DZR Brass)	CORE 750 (Brass)	CORE 800 (Brass)	CORE 171AP (DZR Brass)	CORE 140 (Lugged PN16 Lever)
Albion	ART 50	ART 59	ART 40	ART 89	ART 55PRS	ART 135
Crane	D171A	D171AC	N/A	N/A	D171A.PF	F624 (Wras) F528 (Non-Wras)
Hattersley	100	100C	N/A	N/A	100.PF	970W
Oventrop	10790	N/A	10760	N/A	10771	10484
BOSS	965S	N/A	966S	968S	986P	16LSE
Jet	N/A	N/A	BBV21	BBV24	N/A	624
Pegler	PB550	PB350	PB700	PB300	PS500	VG90.5 (G)
Herz	21900X	21904X	N/A	N/A	N/A	HV-BF-FLL (G)
IMI/TA	42150008	42150002	N/A	N/A	N/A	42450037



CORE 171A



CORE 171AC



CORE 750



CORE 800



CORE 171AP



CORE 140

CORE INHIBITOR DOSAGE CALCULATOR

DOSING ADVICE FOR ALL CHEMICALS (EXCEPT GLYCOL)

1. Take the combined kW output of the Boilers/Chillers.
2. For a heating system, multiply the kW output by 12 to give an estimated system volume in litres, then multiply by 0.40%. e.g. for a 500kW heating system: $500 \times 12 = 6,000$ litres $\times 0.40\% = 24$. Therefore, ADD 24 litres of CORE Inhibitor.
3. For a chilled/cooling system, multiply the kW output by 15 to give an estimated system volume in litres, then multiply by 0.40%. e.g. for a 250kW chilled system: $250 \times 15 = 3,750$ litres $\times 0.40\% = 15$. Therefore, ADD 15 litres of CORE Inhibitor.

DOSING ADVICE (WITH GLYCOL)

The concentration of CORE Glycol Anti-Freeze can be adjusted for lower levels of freeze protection, reducing the freezing point of water in direct proportion to its concentration within the system:

- **25% concentration provides protection down to -11 °C**
 - 2.5L of Glycol Anti-Freeze & 7.5L of water for every 10L of system water
- **30% concentration provides protection down to -14 °C**
 - 3.0L of Glycol Anti-Freeze & 7.0L of water for every 10L of system water
- **35% concentration provides protection down to -17 °C**
 - 3.5L of Glycol Anti-Freeze & 6.5L of water for every 10L of system water
- **40% concentration provides protection down to -22 °C**
 - 4.0L of Glycol Anti-Freeze & 6.0L of water for every 10L of system water

PLEASE NOTE: Minimum dose for full corrosion protection is 25% concentration.

PUMP REPLACEMENT GUIDE

	WILO			GRUNDFOS			
	PRODUCT	LENGTH	SBS CODE	PRODUCT	LENGTH	SBS CODE	
Small circulators	Yonos PICO 15/1-4	130mm	WILO4215511	UPS3 15-50/65	130mm	N/A	
	Yonos PICO 25/1-5-130	130mm	WILO4215522	UPS3 15-50/65	130mm	N/A	
	Yonos PICO 25/1-6	180mm	WILO4215515	N/A	N/A	N/A	
	Yonos PICO 25/1-6-130	130mm	WILO4215516	N/A	N/A	N/A	
	Yonos PICO 25/1-8-130	130mm	WILO4215518	N/A	N/A	N/A	
	Yonos PICO 25/1-8-180	180mm	WILO4215517	N/A	N/A	N/A	
Medium circulators	Yonos MAXO 25/0.5-12 PN10	180mm	WILO2120641	Magna 1 25-100	180mm	N/A	
	Yonos MAXO 25/0.5-7 PN10	180mm	WILO2120639	Magna 1 25-80	180mm	N/A	
	Yonos MAXO 30/0.5-10 PN10	180mm	WILO2120643	Magna 1 32-100	180mm	N/A	
	Yonos MAXO 30/0.5-12 PN10	180mm	WILO2120644	Magna 1 32-120 F	220mm	N/A	
	Yonos MAXO 30/0.5-7 PN10	180mm	WILO2120642	Magna 1 32-80	180mm	N/A	
	Yonos MAXO 40/0.5-12 PN6/10	250mm	WILO2120647	Magna 1 40-120 F	250mm	N/A	
	Yonos MAXO 40/0.5-4 PN6/10	220mm	WILO2120645	Magna 1 40-40 F	220mm	N/A	
	Yonos MAXO 40/0.5-8 PN6/10	220mm	WILO2120646	Magna 1 40-80 F	220mm	N/A	
	Yonos MAXO 50/0.5-12 PN6/10	280mm	WILO2120651	Magna 1 50-120 F	280mm	N/A	
	Yonos MAXO 50/0.5-8 PN6/10	240mm	WILO2120649	Magna 1 50-80 F	240mm	N/A	
	Yonos MAXO 50/0.5-9 PN6/10	280mm	WILO2120650	Magna 1 50-100 F	280mm	N/A	
	Yonos MAXO-D 32/0.5-7 PN6/10	220mm	WILO2160585	Magna 1 D 32-80 F	220mm	N/A	
	Yonos MAXO-D 40/0.5-8 PN6/10	220mm	WILO2120664	Magna 1 D 40-80 F	220mm	N/A	
	Yonos MAXO 50/0.5-9 PN6/10	280mm	WILO2120667	Magna 1 D 50-100 F	280mm	N/A	
	Yonos MAXO-D 65/0.5-12 PN6/10	340mm	WILO2120670	Magna 1 D 65-120 F	340mm	N/A	
	Stratos MAXO 25/0.5-8 PN10	180mm	WILO2164569	Magna3 25-80	180mm	N/A	
	Stratos MAXO 30/0.5-12 PN10	180mm	WILO2164576	Magna3 32-120	180mm	N/A	
	Stratos MAXO 40/0.5-12 PN6/10	250mm	WILO2164584	Magna3 40-120F	250mm	N/A	
	Stratos MAXO 40/0.5-16 PN6/10	250mm	WILO2164585	Magna3 40-180F	250mm	N/A	
	Stratos MAXO 40/0.5-8 PN6/10	220mm	WILO2164583	Magna3 40-80F	220mm	N/A	
	Stratos MAXO 50/0.5-12 PN6/10	280mm	WILO2164589	Magna3 50-120F	280mm	N/A	
	Stratos MAXO 50/0.5-16 PN6/10	340mm	WILO2164591	Magna3 50-180F	280mm	N/A	
	Stratos MAXO 65/0.5-12 PN6/10	340mm	WILO2164594	Magna3 65-120F	340mm	N/A	
	Stratos MAXO-D 30/0.5-10 PN10	180mm	WILO2164646	Magna3 D 32-100 F	220mm	N/A	
	Stratos MAXO-D 30/0.5-6 PN10	180mm	WILO2164645	N/A	N/A	N/A	
	Stratos MAXO-D 32/0.5-12 PN6/10	220mm	WILO2164648	Magna3 D 32-120F	220mm	N/A	
	Stratos MAXO-D 32/0.5-8 PN6/10	220mm	WILO2164647	Magna3 D 32-80F	220mm	N/A	
	Stratos MAXO-D 40/0.5-12 PN6/10	250mm	WILO2164650	Magna3 D 40-120F	250mm	N/A	
	Stratos MAXO-D 40/0.5-16 PN6/10	250mm	WILO2164651	Magna3 D 40-180F	250mm	N/A	
	Stratos MAXO-D 40/0.5-8 PN6/10	220mm	WILO2164649	Magna3 D 40-80F	220mm	N/A	
	Stratos MAXO-D 50/0.5-12 PN6/10	280mm	WILO2164655	Magna3 D 50-120F	280mm	N/A	
Secondary hot water	Yonos MAXO-Z 25/0.5-7 PN10	180mm	WILO2175538	N/A	N/A	N/A	
	Stratos MAXO-Z 25/0.5-12 PN10	180mm	WILO2164668	N/A	N/A	N/A	
	Stratos MAXO 25/0.5-6 PN10	180mm	WILO2164666	Magna3 25-60	180mm	N/A	
	Stratos MAXO-Z 30/0.5-12 PN10	180mm	WILO2164671	N/A	N/A	N/A	
Fixed speed secondary hot water	SB5 230V 1PH	130mm	WILO4035477	ALPHA1 25-40 N 130	130mm	N/A	
	SB30 230V 1PH	130mm	WILO4035479	ALPHA1 25-80 N 130	130mm	N/A	
	SB60 230V 1PH	130mm	WILO4035483	N/A	N/A	N/A	
Pressurisation units	Comfort P135 pressurisation unit	N/A	WILO2819492	N/A	N/A	N/A	
	Comfort P230WM pressurisation unit	N/A	WILO2819502	N/A	N/A	N/A	
	Comfort P235 pressurisation unit	N/A	WILO2819495	N/A	N/A	N/A	
Submersible pump	Wilo-Drain TMW 32/8	N/A	WILO4048413	N/A	N/A	N/A	
Union kits	Union kit 1"x 0.75"(Bronze) 1 pair	N/A	WILO2815097	N/A	N/A	N/A	
	Union kit 1.5"x 1"(Bronze)	N/A	WILO2815099	N/A	N/A	N/A	
BMS module	Connect module for Yonos MAXO	N/A	WILO2210108	N/A	N/A	N/A	

	LOWARA			DAB		
	PRODUCT	LENGTH	SBS CODE	PRODUCT	LENGTH	SBS CODE
	Ecocirc S 15-4/130	130mm	LOW60B0L1000	Evosta 3 40/130 1/2"	130mm	N/A
	Ecocirc M 25-6/130	130mm	LOW60B0L1011	Evosta 3 60/130 1"	130mm	DD60193271
	Ecocirc M 25-6/180	180mm	LOW60B0L1017	Evosta 3 60/180 1"	180mm	N/A
	Ecocirc M 25-6/130	130mm	LOW60B0L1011	Evosta 3 60/130 1"	130mm	DD60193271
	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A
	Ecocirc XL 25-100	180mm	N/A	Evoplus 110/180 M	180mm	DD60150941
	Ecocirc XL 25-80	180mm	LOWE503010AA	Evoplus 80/180 M	180mm	DD60150940
	Ecocirc XL 32-100	180mm	LOWE503040AA	Evoplus 110/180 XM	180mm	DD60150945
	Ecocirc XL D 32-120F	220mm	N/A	N/A	N/A	N/A
	Ecocirc XL 32-80	180mm	LOWE503050AA	Evoplus 80/180 XM	180mm	DD60150944
	Ecocirc XL 40-120 F	250mm	LOWE503100AA	Evoplus B 120/250.40 M	250mm	DD60150967
	Ecocirc XL 40-80 F	220mm	LOWE501130AA	Evoplus B 40/220.40 M	220mm	DD60150963
	Ecocirc XL 40-80 F	220mm	LOWE501130AA	Evoplus B 80/220.40 M	220mm	DD60150965
	Ecocirc XL 50-120 F	280mm	LOWE503130AA	Evoplus B 120/280.50 M	280mm	DD60150974
	Ecocirc XL 50-80 F	240mm	N/A	Evoplus B 80/240.50 M	240mm	DD60150972
	Ecocirc XL 50-100 F	280mm	LOWE501150AA	Evoplus B 100/280.50 M	280mm	DD60150973
	Ecocirc XL D 32-80 F	220mm	LOWE502030AA	Evoplus D 80/220.32 M	220mm	DD60150956
	Ecocirc XL D 40-80 F	220mm	LOWE501170AA	Evoplus D 80/220.40 M	220mm	DD60151003
	Ecocirc XL D 50-120 F	280mm	LOWE503450AA	Evoplus D 120/280.50 M	280mm	DD60151012
	Ecocirc XL D 65-120 F	340mm	LOWE503470AA	Evoplus D 120/340.65 M	340mm	DD60151019
	Ecocirc XL plus 25-80	180mm	LOWE503210AA	Evoplus 80/180 M	180mm	DD60150940
	Ecocirc XL plus N 32-120	220mm	LOWE510110AA	Evoplus 110/180 XM	180mm	DD60150945
	Ecocirc XL plus 40-120 F	250mm	LOWE503300AA	Evoplus B 120/250.40 M	250mm	DD60150967
	Ecocirc XL plus 40-180 F	250mm	LOWE501220AA	Evoplus B 180/250.40 M	250mm	DD60150969
	Ecocirc XL plus 40-80 F	220mm	LOWE501330AA	Evoplus B 80/220.40 M	220mm	DD60150965
	Ecocirc XL plus 50-120 F	280mm	LOWE503330AA	Evoplus B 120/280.50 M	280mm	DD60150974
	Ecocirc XL plus 50-180 F	280mm	LOWE501240AA	Evoplus B 180/280.50 M	280mm	DD60150976
	Ecocirc XL plus 65-120 F	340mm	LOWE503350AA	Evoplus B 120/340.65 M	340mm	DD60150981
	Ecocirc XL plus 32-100 F	220mm	LOWE502040AA	Evoplus D 110/220.32 M	220mm	DD60150957
	N/A	N/A	N/A	N/A	N/A	N/A
	Ecocirc XL D 32-100 F	220mm	LOWE502040AA	Evoplus D 110/220.32 M	220mm	DD60150957
	Ecocirc XL D 32-80 F	220mm	LOWE502030AA	Evoplus D 80/220.32 M	220mm	DD60150956
	Ecocirc XL 40-120 F	250mm	LOWE503100AA	Evoplus D 120/250.40 M	250mm	DD60151005
	Ecocirc XL 40-180 F	250mm	LOWE501280AA	Evoplus D 180/250.40 M	250mm	DD60151007
	Ecocirc XL plus D 40-80 F	220mm	LOWE501370AA	Evoplus D 80/220.40 M	220mm	DD60151003
	Ecocirc XL D 50-120 F	280mm	LOWE503450AA	Evoplus D 120/280.50 M	280mm	DD60151012
	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A
	Ecocirc XL plus 25-60	180mm	LOW605009175	Evoplus SAN 60/180 M	180mm	DD60151145
	N/A	N/A	N/A	N/A	N/A	N/A
	Ecocirc S 15-4/130	130mm	LOW60B0L1000	Evosta2 40-70/130 1 1/2"	130mm	N/A
	Ecocirc L 25-8/130	130mm	LOW60B0L1012	N/A	N/A	N/A
	Ecocirc L 25-8/130	130mm	LOW60B0L1012	N/A	N/A	N/A

CONDENSATE PUMPS

TYPE OF PUMP	BRAND	PRODUCT	SBS PRODUCT CODE	MAX FLOW RATE (LTR/H)	NOISE LEVEL (DBA)	DISCHARGE HEAD (M)	TANK CAPACITY (LTRS)	CONNECTION	FUNCTION LIGHTS	LXWXH (MM)	
Mini pump (230v)	Sauermann	Si-30	ACSI30	20	20	10	N/A	N/A	N/A	66x44x60	
	Aspen	Mini Orange	MINIORANGE	12	21	10	N/A	N/A	N/A	116x39x51	
		Silent Orange	SORANGE	12	19	6	N/A	N/A	N/A	80x39x34	
		Mini Aqua	MINIAQUA	12	21	10	N/A	N/A	N/A	183x28x28	
	Diversitech	Little Giant Condensate Pump	ACEC1	10	21	10	N/A	N/A	N/A	58x46x104	
		Wispa-Q mini	ACWHISPA-Q-MINI	16	21	6	N/A	N/A	N/A	N/A	
	Siccom	Mini Flowatch 2	ACDE05LC4400	15	20.2	10	N/A	N/A	N/A	82x24x48	
		Flowatch 2 comfort	ACMF2URK	15	20	10	N/A	N/A	N/A	82x24x48	
	Blue Diamond	Microblue	N/A	5	N/A	5	N/A	N/A	N/A	150x37x40	
		MiniBlue	ACXR87504	8	21	8	N/A	N/A	N/A	138x58x67	
Mini/Maxi Pump (230v)	Sauermann	Si-33	ACSI33	30	34	13	N/A	N/A	N/A	66x44x60	
	Aspen	Maxi Orange	ACFP2210	35	35	15	N/A	N/A	N/A	122x44x66	
	Diversitech	Ec-400 (lg)	ACWC400	14	58	12	N/A	N/A	N/A	110x35x45	
	Siccom	Maxi Eco	ACDE40LCC300	40	23	10	N/A	N/A	N/A	90x32x42	
	Blue Diamond	MaxiBlue	ACXR87701	14	21	8	N/A	N/A	N/A	158x58x67	
Mini inside wall mount	Sauermann	Si-20	ACSI20	20	22	10	N/A	N/A	N/A	136x38x38	
		Omega Pack	ACOMEGAPACK	14	22	10	N/A	N/A	N/A	326x58x65	
	Aspen	Mini Aqua	MINIAQUA	12	21	10	N/A	N/A	N/A	183x28x28	
		Blanc	MINIBLANC	12	21	10	N/A	N/A	N/A	182x55x115	
	Siccom	Eco-Line	ACDE05SCC600	13.2	25	10	N/A	N/A	N/A	90x32x42	
Pumps in trunking (230v)	Blue Diamond	Microblue	N/A	5	N/A	5	N/A	N/A	N/A	150x37x40	
	Sauermann	Delta Pack Pump in trunking	ACDELTAWHITE	20	22	10	N/A	N/A	N/A	N/A	
	Aspen	Silent+ Lime	SMINIILIME	12	20	10	N/A	N/A	N/A	N/A	
		Maxi Lime Silent	ACFP2215	35	35	15	N/A	N/A	N/A	N/A	
	Diversitech	Wispa Q Trunk	ACWHISPA-Q-TRUN	33	21	8	N/A	N/A	N/A	N/A	
		Ec-1 Kit	ACEC1KIT	10	21	10	N/A	N/A	N/A	N/A	
	Siccom	Flow Watch Design	ACDE05LC9460	15	20.2	10	N/A	N/A	N/A	N/A	
		Flow Watch Vision	ACDE05LCB900	15	N/A	10	N/A	N/A	N/A	N/A	
	Blue Diamond	MicroBlue/Kit	ACXR87507	5	17	5	N/A	N/A	N/A	N/A	
	Mini tank pumps (230v)	Sauermann	Si-60	ACSI60	30	54	13	0.37	N/A	N/A	168x90x88
Aspen		Mini Tank	MINITANK	35	35	15	0.24	N/A	N/A	210x89x69	
Siccom		Sunny	ACDE05NCC090	19	20.2	10	0.7	N/A	N/A	186x110x100	
Blue Diamond		Mini Tank	N/A	35	35	15	0.24	N/A	N/A	210x89x69	
0.5<1+ 1ltr Tank Pumps (230v)	Sauermann	Si-1805	ACSI1805	500	47	5.4	0.5	Wired	No	195X130X132	
	Aspen	Max HiFlow	HIFLOWMAX	550	44	5	1.7	Plug n Play	No	285x144x134	
		Redbox 1L-S	N/A	280	44	5.1	1	Plug n Play	Yes	300x150x120	
		PH-1L	ACPH1L	270	43	6	1	Wired	No	220x134x122	
		Whispa-Q 1L	ACWHISPA-Q-1L	14	12	6	1	Wired	No	170x81x127	
		Vcmx-20s (1.4)	ACVCMX20S	284	58	4.8	1.4	Wired	No	260x122x165	
	Siccom	Flow Watch Tank	ACDE13QCZA700	788	45	5.5	1.3	Wired	No	280x130x135	
		EcoTank 1.2	ACDE12QCC610	300	45	4.6	1.2	Plug n Play	No	280x130x129	
1.7< 2+ 1ltr Tank Pumps (230v)	Sauermann	Si-83	N/A	500	45	5.4	2	Plug n Play	No	287x146x129	
		Si-82	ACSI82	500	45	5	2	Plug n Play	No	279x130x175	
	Aspen	Max HiFlow	HIFLOWMAX	550	44	5	1.7	Plug n Play	No	280x130x129	
		PH-2L	ACPH2L	300	60	4.8	2	Wired	No	290x130x180	
	Diversitech	Whispa-Q 2L	ACWHISPA-1-2L	14	12	6	2	Wired	No	250x135x165	
		Redbox 2L-S	N/A	280	44	5.1	2	Plug n Play	Yes	300x150x120	
		Vcma20s	ACVCMA20S	294	58-62	4.3	1.9	Wired	No	288x127x178	
		Ecotank 2.5	ACDE25QCC620	400	45	6	2.5	Plug n Play	No	280x130x159	
	Replacement Pump	Sauermann	Si-10	ACSI10UNIVERSAL	20	22	10	N/A	N/A	N/A	96x44x76
			Si-2052	ACSI2052	100	30	9	N/A	N/A	N/A	112x91x91
Aspen		Lime (replacement)	MINILIMERE	12	20	10	N/A	N/A	N/A	96x44x76	
	Diversitech	EC-1 Trunk	ACEC1K	10	21	N/A	N/A	N/A	N/A	46x38x84	
		Whispa Q Trunk	ACWHISPA-Q-TRUN	33	21	8	N/A	N/A	N/A	550x106x52	
Peristaltic Pumps	Sauermann	PE 5000	ACPE5000	6	30	12	N/A	N/A	N/A	109x110x91	
		PE 5100	ACPE5100	6	30	12	N/A	N/A	N/A	109x110x91	
		PE 5200	ACPE5200	6	30	12	N/A	N/A	N/A	109x110x91	
	Aspen	Standard	STANDARDMK2	6.5	47	12	N/A	N/A	N/A	135x77x115	
		Universal	UNIVERSALMK2	6.5	47	12	N/A	N/A	N/A	135x77x115	
		Mech	N/A	6.5	47	12	N/A	N/A	N/A	160x83x145	

	IP RATING	SUCTION	WATER TEMP (°C)	PH
	N/A	3	N/A	N/A
	N/A	2	N/A	N/A
	N/A	2	N/A	N/A
	N/A	2	N/A	N/A
	N/A	reservoir	N/A	N/A
	N/A	reservoir	N/A	N/A
	N/A	2	N/A	N/A
	N/A	2	N/A	N/A
	N/A	5	N/A	N/A
	N/A	3.3	N/A	N/A
	N/A	2	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	2	N/A	N/A
	N/A	2	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	2	N/A	N/A
	ipx4	reservoir	N/A	N/A
	ip24	reservoir	N/A	N/A
	ip24	N/A	N/A	N/A
	N/A	reservoir/tank	N/A	N/A
	ip30	reservoir	N/A	N/A
	ip63	reservoir(2m)	N/A	N/A
	ipx3	N/A	N/A	N/A
	N/A	2 meters	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	ip20	N/A	65	3.4
	ip24	N/A	40	N/A
	ip20	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	ip20	N/A	60	2.5
	ip24	N/A	40	2.5
	ip44	N/A	50	N/A
	ip20	N/A	65	N/A
	ip24	N/A	40	2.2
	ip20	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	2.8
	ip24	N/A	40	2.5
	ipx4	N/A	N/A	N/A
	ipx4	N/A	N/A	N/A
	ip24	N/A	N/A	N/A
	ip20	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	ip65	N/A	N/A	N/A
	ip65	N/A	N/A	N/A
	ip65	N/A	N/A	N/A
	ip21	3m	N/A	N/A
	ip21	N/A	N/A	N/A
	ip21	N/A	N/A	N/A

ADVANTAGES IN AC INSTALLATIONS

- Fast & simple installation
- Avoids structural alterations & obstacles
- Place an AC unit where you want, not where you have to
- Avoids pipe blockages from drawn in dust
- No leaking pipe joints
- Recycle your waste water

Condensate Pumps = Installation Flexibility



Gravity Drainage = Limited Installation



Information above sourced from ASPEN

SBS APPROVALS, ASSOCIATIONS AND PARTNERSHIPS

Smith Brothers Stores are constantly looking for ways to improve our operation. One way we do this is by teaming up with reputable industry accreditation organisations to ensure our business promotes the best industry practice.

Accreditations are often external organisations that set standards for a business to adhere to, whether this be an activity or to hold and retain a certain status.



Smith Brothers are ISO 9001 certified. ISO 9001 is the world's most recognised quality management system standard, established by the International Organisation for Standardization (ISO). ISO 9001 helps organisations implement clear, repeatable processes to maintain a quality service for their customers every time.

SBS have an internal taskforce dedicated to maintaining this key accreditation as we continue down the path of self improvement.



SBS are a BESA affiliate member. As a trade body and membership organisation, BESA helps members and their customers specify and deliver better building engineering services within a better-built environment. BESA also provides a wide range of support services, from training courses and advice to sharing best practices and opportunities to network and secure new business. Their wider group also provide essential business services to help companies operate smoothly.



BMFTA

The BMFTA (British Metals Tubes and Fittings Association) is a Trade Association proud to represent the interests of its members involved in manufacturing and distributing metal tubes and fittings in the UK. They aim to provide a dedicated, representative voice for the metal tubes and fittings industry. By engaging with partners and stakeholders on behalf of their members, they aim to ensure that the industry works as effectively as possible in the interests of our members and their customers. SBS Managing Director Steve Smith is a volunteer BMFTA panellist, offering his knowledge and expertise to support the wider industry.



FORS Gold accreditation is awarded to operators demonstrating meaningful improvements against the performance data evidenced at FORS Silver. FORS Gold operators motivate and engage drivers and all other staff involved in the fleet operation to further their professional development and progress further to reduce the environmental, safety and congestion impacts on the road network.



SBS complies with the Direct Vision Standard (DVS) certification, which requires operators of lorries over 12 tonnes of weight, to obtain a permit to enter or operate in Greater London. The DVS measures how much an HGV driver can see through their cab windows, indicating the level of risk to vulnerable road users, such as people walking and cycling near the vehicle. Accreditation Direct Vision Standard for HGV's is part of the Mayor of London's Vision Zero plan to eliminate all deaths and severe injuries on London's transport network by 2041.



Worksafe has since grown into a leader in first aid instructor training with approximately 2,500 instructors, 500+ approved providers and over 175,000 students taught. This accreditation provides our instructors with quality assurance, support, and up-to-date advice on first aid, fire and manual handling compliance, allowing SBS to have the confidence of being workplace compliant while being quality assured by industry specialists. We have trained staff at all locations who can control any first aid emergency, understand how to react to different scenarios and proceed with the best solution.



The Institution of Occupational Safety and Health is the world's chartered body for safety and health professionals. They were formed in 1945 and have since grown into a leader in the health and safety profession. They aim to transform the world of work, making it safer and healthier every day. After a rigorous application process, which involved demonstrating extensive health & safety (H&S) knowledge, experience and qualifications. Our H&S team was approved to deliver the market-leading course, IOSH Managing Safety.

INDUSTRY CERTIFICATIONS

SBS are committed to making sure our stock range offers quality products which meet the latest accreditations and industry guidelines where applicable. Many of the products stocked and supplied come with both U.K. and European specific approvals.

Although many products have particular certifications, this may only indicate part of the range comes with the 'approval'. For complete accuracy, always check the product with an SBS representative.



The NSF REG4 certification scheme for the UK market allows plumbing products and materials that are in contact with drinking water to demonstrate compliance with the UK's Water Supply (Water Fittings) regulations and byelaws. The certification was developed as a streamlined way for plumbing product manufacturers and materials suppliers to demonstrate conformance to UK regulations and gain timely access to the UK market.



WRAS (Water Regulations Advisory Scheme) Approval is the best way to demonstrate compliance as it is granted directly by representatives of the water suppliers and is therefore accepted by every water supplier in the UK. Lookout for this logo when dealing with potable/ drinking water applications.



The CE marking indicates that the manufacturer has met the minimum legal requirements for their products in regard to health and safety under European Directives. CE marking is not, therefore, intended to be a quality mark.



Nebosh is an ISO 45001:2018 accredited organisation. ISO 45001 crosses geographic, political, economic, commercial and social boundaries, setting a single benchmark for the management of occupational health and safety.



The United Kingdom Accreditation Service (UKAS) is the sole National Accreditation Body for the United Kingdom. UKAS is recognised by government, to assess against internationally agreed standards, organisations that provide certification, testing, inspection and calibration services. Accreditation by UKAS demonstrates the competence, impartiality and performance capability of these evaluators. UKAS is appointed as the National Accreditation Body by the Accreditation Regulations 2009 (S.I. No 2009/3155) and Schedule 33 of the Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019/696).



The Lloyds Register (LR) promotes conformance with standards within pipeline services and solutions. Enhancing productivity, identifying and reducing risks associated with each phase of the pipeline lifecycle, reducing failures, unplanned shutdowns and costs and demonstrating regulatory compliance. Ultimately, LR helps you safeguard your revenue stream, whilst protecting the environment, lives, assets and your reputation.



The BBA is a market-leading UKAS-accredited product certification body [No.0113] to BS EN ISO/IEC 17065:2012, testing laboratory [No.0357] to BS EN ISO/IEC 17025:2017, management systems certification body [No.0113] to BS EN ISO/IEC 17021:2015 and inspection body [No.4345] to BS EN ISO/IEC 17020:2012 within the UK, setting the standard for excellence within the construction industry for products and systems and offering technical expertise and independent third party certification.



This logo is associated with products which meet set criteria. Manufacturers with the BSI Kitemark are in an elite club along some of the world's best companies and brands, currently just over 2,500 BSI Kitemark licences are held around the world. Each BSI Kitemark Licensee is subject to a programme of ongoing surveillance. This includes routine testing of the product or service, assessment of production quality controls and, where appropriate, mystery shopping.

OTHER EUROPEAN APPROVALS:



Service & Value since 1897

Notes

Service & Value since 1897

SOCIAL MEDIA

Keep up to date with the latest Smith Brothers news via our LinkedIn, Twitter, YouTube, our App and Online.

ONLINE 'SBSONLINE.NET'

See product stocking status online along with a plethora of other information.

ONLINE 'SBS.CO.UK'

Always get the latest information, literature and developments via our website.

LINKEDIN 'SMITH BROTHERS STORES LTD'

Get inside information regarding branches, company development and operational improvements.

X '@SBS1897'

Keep up to date on a day-to-day basis with the company.

YOUTUBE '@SBS1897'

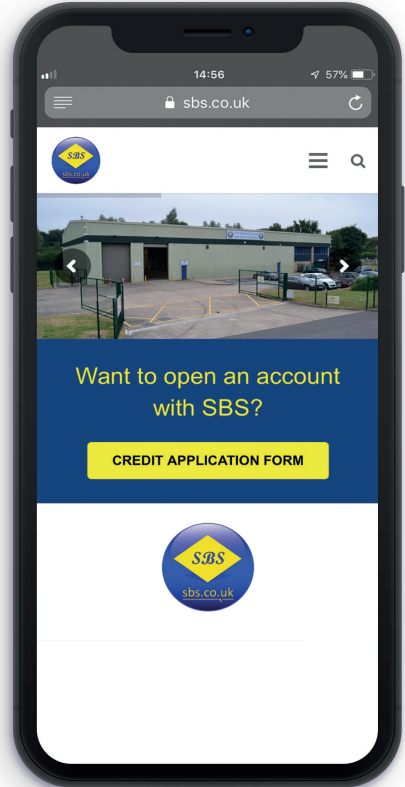
Official company media, along with product videos, are available on this platform.

NEWSLETTER

Sign up to our external newsletter via our website and get the latest information and offers.

APP 'SMITH BROTHERS STORES'

Call Us, Find Us, Contact Us and even book an appointment with an SBS representative. Available through Google Play and Apple Store.



BIRMINGHAM – B66 1BZ

T: 0121 555 1900 E: birmingham@sbs.co.uk

BRISTOL – BS2 0UY

T: 0117 947 1111 E: bristol@sbs.co.uk

CAMBRIDGE – CB24 4AE

T: 0122 362 0926 E: cambridge@sbs.co.uk

CARDIFF – CF24 1RF

T: 0292 167 1250 E: cardiff@sbs.co.uk

DUNDEE – DD4 9UB

T: 0138 221 3600 E: dundee@sbs.co.uk

EXETER – EX2 7PJ

T: 0139 234 3210 E: exeter@sbs.co.uk

GLASGOW – G32 8RH

T: 0141 739 0060 E: glasgow@sbs.co.uk

HEATHROW – TW14 0TW

T: 0203 856 5620 E: heathrow@sbs.co.uk

HIGH WYCOMBE – HP10 0PE

T: 0149 432 6926 E: highwycombe@sbs.co.uk

HULL – HU7 0XY

T: 0148 242 4333 E: hull@sbs.co.uk

LEEDS – LS10 1AX

T: 0113 201 4222 E: leeds@sbs.co.uk

LEICESTER – LE2 7SR

T: 0116 222 7355 E: leicester@sbs.co.uk

MERSEYSIDE – CH41 9BA

T: 0151 541 6440 E: merseyside@sbs.co.uk

NEWCASTLE – NE11 0NJ

T: 0191 917 9922 E: newcastle@sbs.co.uk

NORTHAMPTON – NN4 7BX

T: 0160 476 3621 E: northampton@sbs.co.uk

OLDHAM – OL1 4AS

T: 0161 621 6288 E: oldham@sbs.co.uk

PETERBOROUGH – PE1 5UP

T: 0173 331 1711 E: peterborough@sbs.co.uk

RAINHAM – RM13 9DD

T: 0170 868 9900 E: london@sbs.co.uk

SHEFFIELD – S9 5DE

T: 0114 553 6500 E: sheffield@sbs.co.uk

SOUTHAMPTON – SO53 4SE

T: 0238 062 3070 E: southampton@sbs.co.uk

DOWNLOAD ME**HEAD OFFICE**

Unit V2 Winchester Avenue,
Blaby,
Leicester,
Leicestershire,
LE8 4GZ

SBS VITAL STATISTICS V4

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