

FlowPlumbTM Systems

Plumbing For Life



GLOBAL
Solutions to Water Issues

FlowPlumb Systems™

Plumbing For Life

FlowPlumb Systems™ is a collection of the world's highest quality plumbing & drainage products. Our products are manufactured to British & European standards in the UK, South Africa & Argentina in state of the art facilities.

Together, our manufacturing partners have:

- Over 170 years of proven business experience
- Around 20,000 employees
- Over 65,000 products

Available & Ready to Take Away

We have over 50,000sqm of warehouse facilities in Sub-Saharan Africa. Unless otherwise stated, the products in this brochure are available & ready for dispatch or collection immediately.

In addition, our expert & experienced engineers are ready to help on your project, advising of material, quantities & specification.



Our aim is to ensure you have the right products at the right time.

For more information, visit us at: www.flowplumb.com or call us on: +44 (0) 1582 807 363 or +44 (0) 1525 634 255



Trust Us

FlowPlumb Systems™ stands for quality, but what does that mean to you? Whether you are looking to reduce your costs, save time or have piece of mind, FlowPlumb Systems™ is the first choice for many people & companies who simply want a plumbing system that works.



Economy

Once installed correctly, our systems are guaranteed not to leak. With no ongoing maintenance costs, FlowPlumb Systems™ offers the greatest value available.



Quick & Easy Installation

Our systems are quick & easy to install. From simple Pushfit to Fusion technology, each joint takes seconds to accomplish yet lasts a lifetime.



Health

Our systems include an anti-oxidant barrier which maintains the purity of the water being carried in them & prevents bacteria.



Complete Systems

Unlike other manufacturers, we produce both pipes & fittings - designed to work together, to guarantee a leak-free system.



Security

Installed correctly, our systems cannot leak. This means that you will not need unknown repair men entering your home or business premises.



Heritage

Our UK manufacturing plants can trace their experience back over 65 years to 1947 when our first factory opened in East London.

Trust Our Customers



London 2012 Olympic Village



Jumeirah Beach Hotel, Dubai, UAE



National Library, Abuja, Nigeria

Certification



BS EN ISO 9002

British Standard - Class S rated to BS7291 Part 1

Kitemark License Number 38148 to BS7291 Part 1 & 2



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PPR PLUS System

More than 50 years ago, Mr. Erwin May, a German immigrant who landed in Argentina with strength, drive & skills, created a pioneering thermoplastic piping company. Today, we are still implanted with the same importance for quality, pride in what we do, & the obsession for constant improvement.

Why Choose PPR Plus?

We are always at the forefront of technological investigation in thermo-plastic products & are committed to the development of the industry. Through this, we obtain a firm recognition of our products in the domestic & foreign markets.

Fusion Technology

We use RANDOM copolymer polypropylene (PPR), which is designed in Europe as raw material, to manufacture our PPR Plus System. This is the best suited material to join by molecular fusion. Structural integrity is maintained by using only virgin polypropylene instead of recycled material.

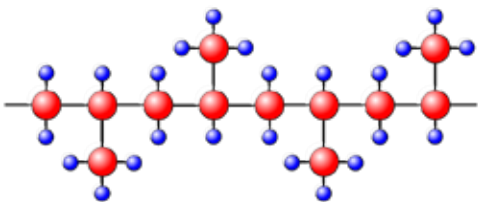


Fig. 1. Virgin Polypropylene



Once fused, the pipe & fitting are connected by molecular join.

Multi Layered PPR Plus

Internal anti-oxidant layer maintains purity of the water & avoids scale build up resulting in minimum load loss.

Tough external polypropylene layer will never corrode & contains an anti UV compound.



Fast, Easy, Watertight Installation



Fusion Timing

Diameter	Time
20mm	5 secs
25mm	7 secs
32mm	8 secs
40mm	12 secs
50mm	18 secs
63mm	24 secs
75mm	30 secs
90mm	40 secs
110mm	58 secs

SUPER FAST



INSTALLATION



Advantages of PPR PLUS

Installation

- Impact resistant
- Increased elasticity & flexibility
- Lightweight

End User

- Low thermal conductivity / low loss of heat
- High temperature resistance (95°C)
- Better flow rate
- High resistance to chemicals
- Maximises network pressure
- Totally non-toxic
- Odourless, colourless & tasteless
- Cannot rust - no brown water
- Better sound insulation
- Resistance to high pressure (115 Bar max)

Overall, the main benefit of our PPR Plus System is that, installed correctly, it is **impossible for it to leak**. Installed correctly, no damage, no inconvenience, & ultimately a system which outperforms all others while saving you time & money.

Pressure & Comparison Tables

Compare & Choose the Best System

Iron	Copper	CPVC	PVC	IPS	
●	●	●	●	●	Saving of resources due to thermal conductivity
●	●	●	●	●	High pressure temperature strength
●	●	●	●	●	Cost benefit ratio
●	●	●	●	●	Environmental impact
●	●	●	●	●	Useful life

Inadequate Fair Optimal

* Pressure table equivalent to DIN Standards & Testing at 20°C. Pipes marked with DIN rating (20 Bar) for Europe, Africa & Australasia. Pipes also marked with IRAM rating (16 Bar) for South American market.

Where to use PPR PLUS



For the Home

PPR Plus adds value - with more than 50 years of useful life, it avoids degradation of walls due to humidity stains. Furthermore, the low thermal conductivity offers less condensation than other alternative materials.



Hotels & Residential Towers

Reduced labour time - the Fusion coupling system allows serial installation in housing & building plans with identical distribution. With no maintenance issues, hotel rooms can remain occupied all year round. Tenant benefits - higher resistance, more quality, better service, no maintenance.



Industrial Use

Due to its high chemical resistance, pressure & temperature ranges, PPR Plus is ideal for industrial use. The anti-oxidant internal layer makes it particularly suitable for food & beverage production.

Pressure Table*

System	Tube Diameter	PN	Continuous Working Pressure	
			20°C	70°C
IPS Fusion System (Multilayer Tube S3,2) Standard: DIN 8077/ IRAM 13470	20mm	20	20 Bar	8.1 Bar
	25mm	20	20 Bar	8.1 Bar
	32mm	20	20 Bar	8.1 Bar
	40mm	20	20 Bar	8.1 Bar
	50mm	20	20 Bar	8.1 Bar
	62mm	20	20 Bar	8.1 Bar
	75mm	20	20 Bar	8.1 Bar
	90mm	20	20 Bar	8.1 Bar
	110mm	20	20 Bar	8.1 Bar

Case Study

Setraco Nigeria has consistently used our PPR Plus on their projects in Abuja since 2010. Here, 25mm & 40mm are used in a ring system at their maintenance plant, with both 40mm & 50mm buried in concrete.



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PPR PLUS System

Pipes	
	Multicapa PN20 4m Pipe for Hot & Cold Water 20mm - 2901 25mm - 2902 32mm - 2903 40mm - 2904 50mm - 2905 63mm - 2906 75mm - 2907 90mm - 2908 110mm - 2909
	

Elbows				
FCU Elbow 90° FF  20mm - 101 25mm - 102 32mm - 103 40mm - 104 50mm - 105 63mm - 106 75mm - 107 90mm - 108 110mm - 109	FCUMH Elbow 90° MF  20mm - 121 25mm - 122 32mm - 123 40mm - Unavailable 50mm - Unavailable 63mm - Unavailable 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable	FCA Elbow 45° FF  20mm - 131 25mm - 132 32mm - 133 40mm - 134 50mm - 135 63mm - 136 75mm - 137 90mm - 138 110mm - 139	FCE Corner Elbow 90°  20mm - 1211 25mm - 1212 32mm - 1213 40mm - Unavailable 50mm - Unavailable 63mm - Unavailable 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable	FBU Bend 90° FF  20mm - 281 25mm - 282 32mm - 283 40mm - 0284B 50mm - 285 63mm - 286 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable
FCUiHS Wall Plate Elbow with 70° F Insert  20mm - 1201 25mm - Unavailable 32mm - Unavailable 40mm - Unavailable 50mm - Unavailable 63mm - Unavailable 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable	FCUiH Elbow 90° with Female Insert  3/8" x 20mm - 200 1/2" x 20mm - 201 3/8" x 25mm - 205 1/2" x 25mm - 202 3/4" x 25mm - 203 3/4" x 32mm - 209 1" x 32mm - 204 All others unavailable	FCUiM Elbow 90° with Male Insert  1/2" x 20mm - 1121 3/4" x 25mm - 1122 3/4" x 25mm - 1123 3/4" x 25mm - 1129 1" x 32mm - 229 All others unavailable		

Sockets				
FUD Socket Union FF  20mm - 231 25mm - 232 32mm - 233 40mm - 234 50mm - 235 63mm - 236 75mm - 237 90mm - Unavailable 110mm - PRI110NXXX Steel Flange	FC Socket FF  20mm - 191 25mm - 192 32mm - 193 40mm - 194 50mm - 195 63mm - 196 75mm - 197 90mm - 198 110mm - 199	FUDrH Socket Union with Female Thread  1/2" x 20mm - 531 3/4" x 25mm - 532 1" x 32mm - 533 1 1/4" x 40mm - 534 1 1/2" x 50mm - 535 2" x 63mm - 536 2 1/2" x 75mm - 537 90mm - Unavailable 110mm - Unavailable	FUDrM Socket Union with Male Thread  1/2" x 20mm - 921 3/4" x 25mm - 922 1" x 32mm - 923 40mm - Unavailable 50mm - Unavailable 63mm - Unavailable 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable	FUDrM Socket Union with Metal Thread  1/2" x 20mm - 1821 3/4" x 25mm - 1822 1" x 32mm - 1823 1 1/4" x 40mm - 1824 50mm - Unavailable 63mm - Unavailable 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable
FCiH Socket with Metal Female Insert  3/8" x 20mm - 270 1/2" x 20mm - 271 3/4" x 20mm - 290 1/2" x 25mm - 278 3/4" x 25mm - 272 1/2" x 32mm - 284 3/4" x 32mm - 279 1" x 32mm - 273 1 1/4" x 40mm - 274	FCiH Socket with Metal Female Insert  1 1/2" x 50mm - 275 2" x 63mm - 276 2 1/2" x 75mm - 277 3" x 90mm - 280 All others unavailable	FCiM Socket with Metal Male Insert  1/2" x 20mm - 221 1/2" x 25mm - 220 3/4" x 25mm - 222 1/2" x 32mm - 119 3/4" x 32mm - 228 1" x 32mm - 223 1 1/4" x 40mm - 224 1 1/2" x 50mm - 225 2" x 63mm - 226 2 1/2" x 75mm - 227 3" x 90mm - 230		

Cross & Cross Overs			Caps	
FCZ Cross  20mm - 751 25mm - 752 32mm - 753 40mm - Unavailable 50mm - Unavailable 63mm - Unavailable 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable	FSOB Cross Over  20mm - 291 25mm - 292 32mm - 293 40mm - Unavailable 50mm - Unavailable 63mm - Unavailable 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable	FSOBC Short Cross Over  20mm - 1291 25mm - 1292 32mm - 1293 40mm - Unavailable 50mm - Unavailable 63mm - Unavailable 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable	FTH Cap Female  20mm - 111 25mm - 112 32mm - 113 40mm - 114 50mm - 115 63mm - 116 75mm - 117 90mm - 118 110mm - 120	

Tees			
FTU Tee 90°  20mm - 161 25mm - 162 32mm - 163 40mm - 164 50mm - 165 63mm - 166 75mm - 167 90mm - 168 110mm - 169	FTUiH Tee with Female Insert  3/8" x 20mm - 210 1/2" x 20mm - 211 1/2" x 25mm - 212 3/4" x 25mm - 213 1" x 32mm - 214 All others unavailable	FTUiM Tee with Male Insert  1/2" x 20mm - 761 3/4" x 25mm - 763 3/4" x 32mm - 769 1" x 32mm - 764	



Reducers			
FCMH Reducing Socket 	25mm x 20mm - 140 32mm x 20mm - 141 32mm x 25mm - 142 40mm x 20mm - 143 40mm x 25mm - 144 40mm x 32mm - 145 50mm x 20mm - 146 50mm x 25mm - 148 50mm x 32mm - 149 50mm x 40mm - 150 63mm x 20mm - 151 63mm x 25mm - 152 63mm x 32mm - 153 63mm x 40mm - 154 63mm x 50mm - 155 75mm x 50mm - 156 75mm x 63mm - 157 90mm x 63mm - 158 90mm x 75mm - 159 All others unavailable	FTU Reducing Tee 90° 	25mm x 20mm - 241 32mm x 20mm - 242 32mm x 25mm - 243 40mm x 20mm - 244 40mm x 25mm - 245 40mm x 32mm - 246 50mm x 20mm - 247 50mm x 25mm - 248 50mm x 32mm - 249 50mm x 40mm - 250 63mm x 20mm - 251 63mm x 25mm - 252 63mm x 32mm - 253 63mm x 40mm - 254 63mm x 50mm - 257 75mm x 32mm - 260 75mm x 40mm - 261 75mm x 50mm - 263 75mm x 63mm - 264 110mm x 90mm - 269
	FCU Reducing Elbow 90° FF 		25 x 20mm - 1220 32 x 20mm - 1221 32 x 25mm - 1222 All other sizes unavailable
			FCOL Reducing Manifold 4 Port 
			32mm x 25mm - 1753 75mm x 63mm - 1757

Valves			
FLLP Seat Valve 	20mm - 171 / GN20 25mm - 172 / GN25 32mm - 173 / GN32 40mm - GN40 50mm - Unavailable 63mm - Unavailable 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable	FCLLP Seat Valve 	20mm - 181 25mm - 182 32mm - Unavailable 40mm - Unavailable 50mm - Unavailable 63mm - Unavailable 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable
			FVEV Ball Valve 
FVEM Ball Valve 	20mm - 1901 25mm - 1902 32mm - 1903 40mm - 1914 50mm - 1915 63mm - 1916 75mm - GN75 90mm - Unavailable 110mm - Unavailable	FVEMan Ball Valve 	20mm - 1951 25mm - 1952 32mm - 1953 40mm - Unavailable 50mm - Unavailable 63mm - Unavailable 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable
			FCMLLP Seat Valve 

Accessories			
FMiSiH Mixer with Metal Insert 	20mm - 1919 25mm - 1920 32mm - Unavailable 40mm - Unavailable 50mm - Unavailable 63mm - Unavailable 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable	FMIS Mixer Fusion Weld 	20mm - 1241 25mm - 1242 32mm - Unavailable 40mm - Unavailable 50mm - Unavailable 63mm - Unavailable 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable
			Welding Saddle 
			FATA Tank Adaptor 
			20mm - 721 25mm - 722 32mm - 723 40mm - Unavailable 50mm - Unavailable 63mm - Unavailable 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable

Tools			
Welding Tool 220V - 0020B 		BOQ Welding Socket For use with Welding Tool 	20mm - 21 25mm - 22 32mm - 23 40mm - 24 50mm - 25 63mm - 26 75mm - 27 90mm - 28 110mm - 29
			BOQ Welding Socket Remover Code - 15 
Pipe Cutter Code - 50 		Pipe Clip 	20mm - 97 25mm - 98 32mm - 99 40mm - 94 50mm - 95 63mm - 96 75mm - Unavailable 90mm - Unavailable 110mm - Unavailable
			Pressure Test Pump Code - 53 

Pipe sizes provided are external diameter.

PPH THREADED System

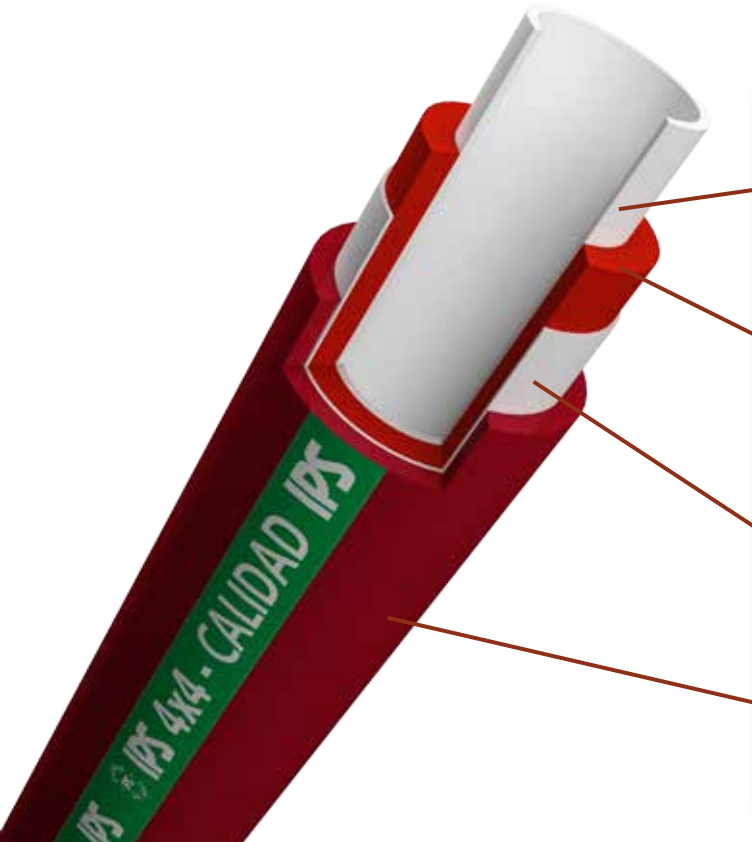
Our PPH Threaded pipes & fittings are manufactured with high molecular weight polypropylene homopolymer - or PPH. This material was specially selected due to its high resistance to high pressures & temperatures. More dense than PPR Plus, this material provides threads with the necessary rigidity to maintain a water tight seal.

We were the first manufacturer in the world to produce a polypropylene threaded system & have used that experience to produce one of the world's best piping systems.



Four-Layered Pipes

Our amazing threaded pipe consists of not one, or even two layers, but four superior layers of pipe, designed to ensure simple installation & a long life of trouble free service.



- 1 Internal anti-oxidant layer maintains purity of water. The smooth surface also avoids scale build up, resulting in minimal load loss.
- 2 The tough yet lightweight polypropylene pipe will never corrode like metal pipes do. This means no brown water, & makes PPH Threaded ideal for bore holes as well as normal hot & cold water applications.
- 3 A thin white layer helps the threading process, reducing the time & effort needed to install the system.
- 4 The protective external layer provides protection for the pipe & contains an anti UV compound, resulting in a 50% higher performance than other manufacturers.

Fast, Easy, Watertight Installation



1



2



3

No electricity needed!

Advantages of PPH Threaded

Our Threaded System has many benefits to help you enjoy trouble free plumbing.

Installation

- Familiar installation method
- No electricity needed
- Threading tool eliminates mistakes
- Lightweight pipes easy to work with

End User

- Low thermal conductivity means less heat loss
- High temperature resistance (95°C)
- Better flow rate
- High resistance to chemicals
- Maximises network pressure
- Totally non-toxic
- Odourless, colourless & tasteless
- Cannot rust - no brown water
- Better sound insulation
- Resistance to high pressure (115 Bar)

In summary, PPH Threaded provides a system with a familiar installation method to any reputable plumber. This results in a better installed system combined with superior performance.

Pressure & Comparison Tables

Compare & Choose the Best System

Iron	Copper	CPVC	PVC	IPS	
●	●	●	●	●	Saving of resources due to thermal conductivity
●	●	●	●	●	High pressure temperature strength
●	●	●	●	●	Cost benefit ratio
●	●	●	●	●	Environmental impact
●	●	●	●	●	Useful life

Inadequate Fair Optimal

Where to use PPH Threaded



For the Home

Our PPH Threaded System has all the advantages of a traditional plumbing system, combined with modern technology to ensure a leak-free solution. Our larger bore pipes are perfect for bore holes, making a complete indoor/outdoor system.



Hotels & Residential Towers

Our large bore PPH Threaded System is perfect for bringing mains water into the building & for risers. PPH Threaded can also be used with PPR Plus to distribute to individual rooms/units.



Industrial Use

Due to its high chemical resistance, pressure & temperature ranges, PPH Threaded is ideal for industrial use. The anti-oxidant internal layer makes it particularly suitable for food & beverage production.

Pressure Table*

System	Tube Diameter	PN	Continuous Working Pressure	
			20°C	70°C
IPS Fusion System (Multilayer Tube S3,2) Standard: DIN 8077/ IRAM 13470	1/2"	10	10 Bar	3.5 Bar
	3/4"	10	10 Bar	3.5 Bar
	1"	10	10 Bar	3.5 Bar
	1 1/4"	10	10 Bar	3.5 Bar
	1 1/2"	10	8 Bar	3 Bar
	2"	10	8 Bar	3 Bar
	2 1/2"	10	4 Bar	2.5 Bar
	3"	10	4 Bar	2.5 Bar
	4"	10	4 Bar	2.5 Bar

* Pressure table equivalent to DIN Standards & Testing at 20°C. Pipes marked with DIN rating (20 Bar) for Europe, Africa & Australasia. Pipes also marked with IRAM rating (16 Bar) for South American market.

Case Study

This pumping station uses 3" PPH Threaded pipe & fittings, taking advantage of our anti-oxidant internal pipe layer to maintain the purity of the water.
























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PPH THREADED System











Pipes	
IPS 4x4 Plus Hot & Cold Water Pipe 6m	1/2" - 2741 3/4" - 2742 1" - 2743 1 1/4" - 2744 1 1/2" - 2745 2" - 2746 2 1/2" - 2747 3" - 22748 (4m only) 4" - 22749 (4m only)
	
IPS 4x4 Plus Insulated Pipe 6m	1/2" - 2721 3/4" - 2722 1" - 2723 1 1/4" - Unavailable 1 1/2" - Unavailable 2" - Unavailable 2 1/2" - Unavailable 3" - Unavailable 4" - Unavailable



Elbows	Description	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	MCU Elbow 90° FF	301	302	303	304	305	306	307	11308	11309
	MCUiM Elbow with M Insert	Unavailable	1322	1329	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable
	MCUiH Elbow with F Insert	1301	1302	1303	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable
	MCUiHS Wall Plate Elbow with F Insert	2301	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable
	MCMH Elbow 90° FF	321	322	323	324	325	326	Unavailable	Unavailable	Unavailable
	MCA Elbow 45° FF	331	332	333	334	335	336	Unavailable	Unavailable	Unavailable
	MBU Bend 90° FF	581	582	583	584	585	586	Unavailable	Unavailable	Unavailable
	MBUMH Bend 90° MF	571	572	573	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable
Sockets	Description	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	MUD Socket Union FF	341	342	343	344	345	346	347	Unavailable	Unavailable
	MUDMH Socket Union MF	911	912	913	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable
	MC Socket FF	391	392	393	394	395	396	397	11398	11399
	MCMH Socket MF	591	592	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable
	MCiH Socket with F Insert	1391	1392	1393	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable
	MCiM Socket with M Insert	1591	1592	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable
	ME Nipple MM	411	412	413	414	415	416	417	Unavailable	Unavailable
Tees	Description	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	MTU Tee 90° FFF	361	362	363	364	365	366	367	11368	Unavailable
	MTUiM Tee with M Insert	1763	1764	1765	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable
	MTUiH Tee with F Insert	1361	1362	1364	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable
Valves	Description	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	MLLP Seat Valve	561	562	563	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable
	CLLP Seat Valve	771	772	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable
	MVEM Ball Valve	781	782	783	784	785	786	Unavailable	Unavailable	Unavailable

Pipe sizes provided are internal diameter.

Others	Description	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	MCZ Cross FFFF	351	352	353	354	355	356	Unavailable	Unavailable	Unavailable
	MSOB Crossover MM	811	812	813	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable
	MTM Plug M	501	502	503	504	505	506	507	11508	11509
	MTH Cap F	511	512	513	514	515	516	Unavailable	Unavailable	Unavailable
	MATA Tank Adaptor	381	382	383	384	385	386	Unavailable	Unavailable	Unavailable
	MBJ Flange with Gasket	521	522	523	524	525	526	Unavailable	Unavailable	Unavailable

Reducers	Description									
	MTU Reducer Tee 90° FFF	1/2" x 3/4" x 1/2" 372	1/2" x 3/8" x 1/2" 371	3/4" x 1/2" x 3/4" 368	3/4" x 1/2" x 1/2" 373	1" x 1/2" x 1" 369				
	MTUiH Reducing Tee 90° FF	3/4" x 1/2" 1368								
	MC Reducer Socket FF	1/2" x 3/8" 390	3/4" x 3/8" 389	3/4" x 1/2" 398	1" x 1/2" 400	1" x 3/4" 399				
	MCMH Reducer Socket MF	1/2" x 3/4" 598								
	MCiH Reducer Socket with F Insert	1/2" x 3/8" 1399	3/4" x 1/2" 1398	1" x 3/4" 1394						
	ME Reducer Nipple MM	3/4" x 1/2" 418	1" x 1/2" 420	1" x 3/4" 419						
	MCUiH Reducing Elbow with F Insert	3/4" x 1/2" 1308								
	MCU Reducer Elbow 90°	1/2" x 3/8" 311	3/4" x 1/2" 308	1" x 1/2" 310	1" x 3/4" 309					
	Nipple MM	451								
	Reducing Bush	421								

Tools			
	Hemp Code: 81 Code: 85		Threading Tool 1/2" - Code: 31 3/4" - Code: 32 1" - Code: 33 1 1/4" / 1 1/2" / 2" - Code: 3 2 1/2" / 3" / 4" - Code: 4
			GT Clamp 1/2" - 97 3/4" - 98 1" - 99 1 1/4" - 94 1 1/2" - 95 2" - 96
			2 1/2" - Unavailable 3" - Unavailable 4" - Unavailable
			Aluminium Tape for Outdoor Use (10m) Code: 82
			 



PLUMBING FOR LIFE

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Push - Click, that's it!



FlowPlumb Systems™ Pushfit plumbing system could not be easier, quicker or more secure against leaks.

HOW IT WORKS



FlowPlumb Systems™ Pushfit barrier pipe is manufactured in the UK from Polybutylene (PB). This makes the pipe flexible enough to feed through buildings without the need for expensive fittings like elbows & joints. This pipe is supplied in coils, so you can easily install a Pushfit system using just **ONE** fitting at the start of the pipe & **ONE** at the end where it attaches to a tap.

However, if more complex solutions are required, a whole range of fittings are available. FlowPlumb Systems™ fittings simply push onto the pipe.

The UK's number 1 plumbing system!



INSTALLATION



! No tools needed!

! No electricity needed!

BENEFITS

- Speed - faster return on investment & more jobs completed
- Easy installation - less mistakes / reduced costs
- Reduced fittings - reduced costs
- Can be connected to most existing systems including steel & brass
- Cannot rust - long life / reduced maintenance costs
- No leaks - no maintenance

DEMOUNTABLE

Mistakes can happen, but the FlowPlumb™ Pushfit System has been designed to allow for this. All of our white fittings are fully demountable & can be removed AND used again, meaning you don't have to throw anything away. To demount a fitting, simply put the outer ring (1) back into the fitting (2) and gently pull the pipe out (3).

MONEY SAVER



SYSTEM APPLICATIONS

Nominal Temperature	65°C
Maximum Temperature	95°C
System Malfunction Temperature	100°C
Maximum Working Pressure	12 Bar

30 St. Mary's Axe, London, is one of the most famous buildings in Europe to use FlowPlumb Systems™. Other notable sites include the 2012 Olympic Village in Stratford, London.

CERTIFICATION



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PUSHFIT System

FlowPlumb Systems™ Pushfit is our hand demountable plumbing system, offering ultimate flexibility & adjustability. Manufactured from polybutylene (PB), FlowPlumb Systems™ Pushfit system is ideal for hot & cold water plumbing in domestic & commercial buildings. The flexible pipe eliminates the need for expensive fittings, whilst the simple push-click jointing process makes FlowPlumb Systems™ Pushfit the world's quickest & easiest plumbing system to install.



FEATURES



Lightweight



Flexible pipe



Very fast installation



Money saver



BBA approved



Cannot rust



Impact resistant



Pushfit joints



Demountable & reusable



Barrier Pipe		15mm	22mm	28mm
	25m Coil 50m Coil 100m Coil 120m Coil 150m Coil	FIT2515B FIT5015B FIT10015B FIT12015B FIT15015B	FIT2522B FIT5022B Unavailable Unavailable Unavailable	FIT2528B FIT5028B Unavailable Unavailable Unavailable
	Pipe Stiffener (Pack of 50)	PB6415	PB6422	PB6428

Elbows

Elbow	Spigot Elbow	Wall Plate Elbow
15mm - FIT115 22mm - FIT122 28mm - FIT128	15mm - FIT1015 22mm - FIT1022 28mm - Unavailable	15mm - FIT1315 22mm - Unavailable 28mm - Unavailable

Manifolds

3 Port Manifold
22mm x 15mm - PB7322153
Valved Brass Manifold
2 Port - 3/4" x 15mm - PB234152 (Special Order only) 3 Port - 3/4" x 15mm - PB5234153

Sockets

Straight Couplers	Adaptor from PolyFit to DZR Brass (BSPT) F	Adaptor from PolyFit to DZR Brass (BSPT) M
15mm - FIT015 22mm - FIT022 28mm - FIT028	15mm - FIT4415 22mm - FIT4422 28mm - Unavailable	15mm - FIT4315 22mm - FIT4322 28mm - FIT4328

Reducers

End Reduced Tee	Branch Reduced Tee	Reducing Socket
22mm x 15mm x 22mm - FIT1422 28mm x 22mm x 28mm - FIT1428	22mm x 22mm x 15mm - FIT1122 28mm x 28mm x 22mm - FIT1128	22mm x 15mm - FIT1822 28mm x 22mm - FIT1828 28mm x 15mm - FIT182815










Tee

Equal Tee
15mm - FIT215 22mm - FIT222 28mm - FIT228







Tap Connectors

Tap Connector Straight	Tap Connector Bent	Flexible Hose - FlowPlumb / Tap Connector
15mm x 1/2" - FIT715 15mm x 3/4" - FIT71534 22mm x 3/4" - FIT722	15mm x 1/2" - FIT1715	15mm x 1/2" x 150mm - FIT6815 15mm x 3/4" x 300mm - FIT681534 15mm x 1/2" x 500mm - FIT8315 22mm x 3/4" x 300mm - FIT6822

Pipes available are straight length (special order only)

Valves					
Gate Valve  15mm - PB3115 22mm - PB3122 28mm - Unavailable	Shut Off Valve  15mm - PB5915 22mm - Unavailable 28mm - Unavailable	Appliance Valve  15mm x 1/2" - PB6115 22mm - Unavailable 28mm - Unavailable	Service Valve  15mm x 1/2" - PB6515 22mm - Unavailable 28mm - Unavailable	Brass Chrome Plated Service  15mm - PB8515 22mm - PB8522 28mm - Unavailable	
Stopcock PolyFit (Cold Water Only)  15mm - PB2615 22mm - PB2622 28mm - Unavailable	Stopcock Brass Spigot Drain  15mm - PB3615 22mm - Unavailable 28mm - Unavailable	Double Check Valve  15mm - PB3715 22mm - PB3722 28mm - PB3728	1/4 Turn Ball Valve  15mm - PB6715 22mm - PB6722 28mm - PB6728		



Accessories					
Tank Connector (Cold Water Only)  15mm - PB3815 22mm - PB3822 28mm - Unavailable	Blank End Socket  15mm - PB1915 22mm - PB1922 28mm - PB1928	Blank End Spigot  15mm - PB915 22mm - PB922 28mm - Unavailable	Spares Kit  15mm - PB9515 22mm - PB9522 28mm - PB9528	Release Aids (Set of 4)  All sizes: FITAID	Pipe Clips  15mm - PB2215 22mm - PB2222 28mm - PB2228

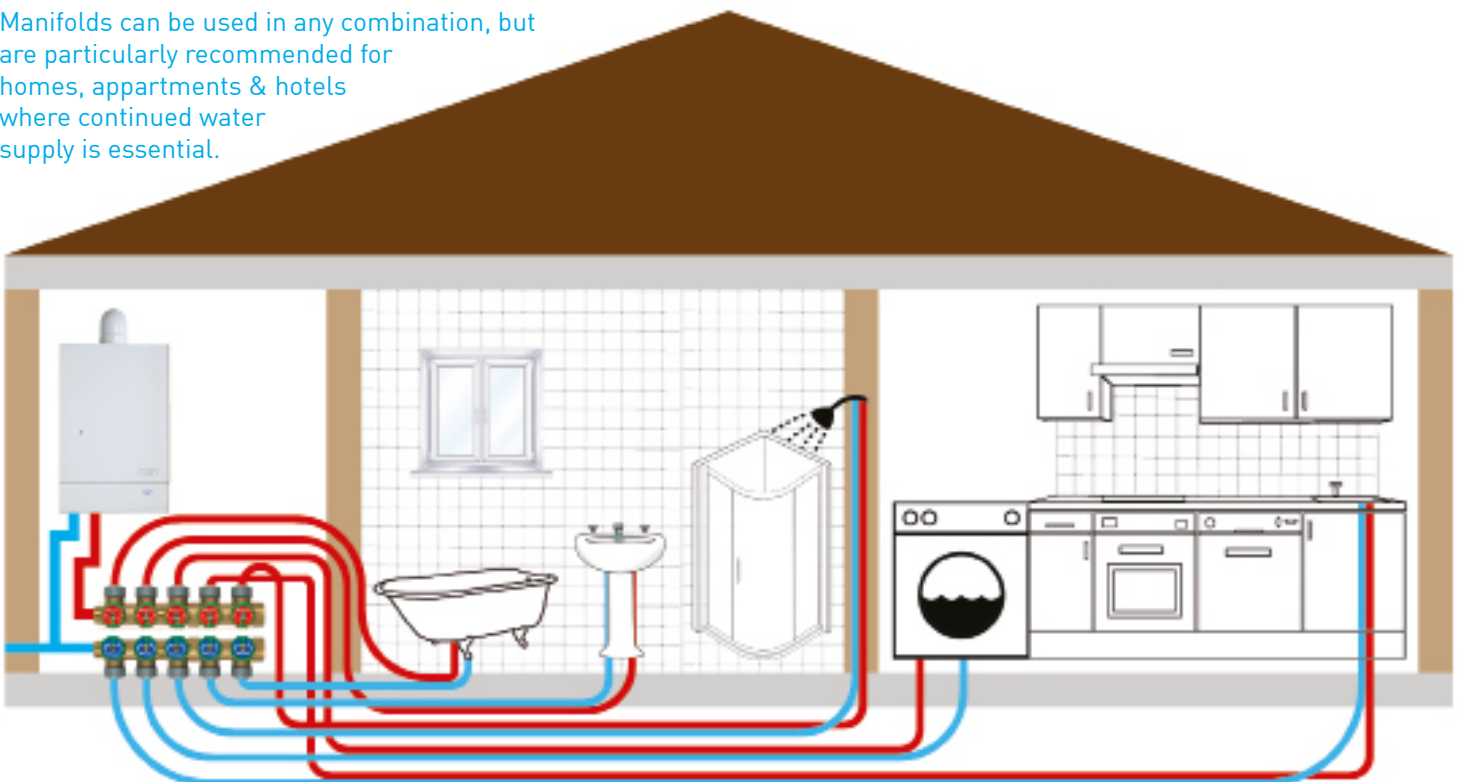
THE MANIFOLD SYSTEM



Manifolds can be used in any combination, but are particularly recommended for homes, apartments & hotels where continued water supply is essential.

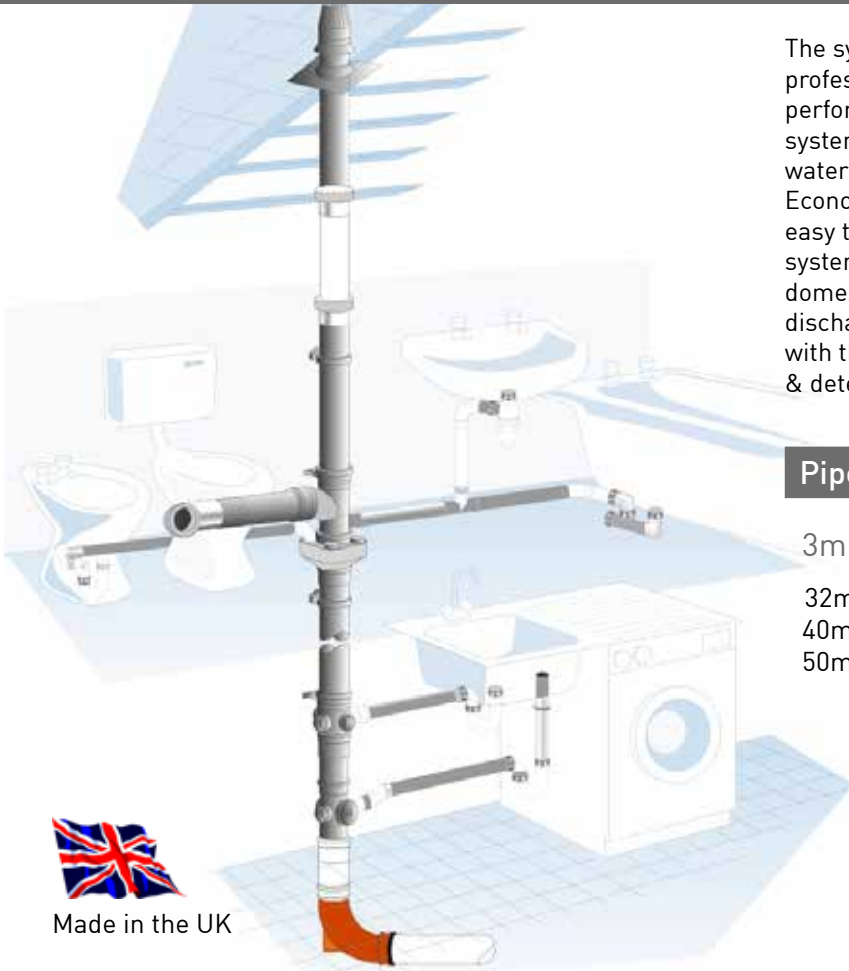
The FlowPlumbTM manifold system provides a central control point for water distributing (much like simple electrical circuits), so that services can be isolated for essential maintenance such as changing a tap.

With this system, a single pipe is fed into the manifold, & then secondary pipes are taken out of the ports to feed each appliance, e.g. basin, bath or shower. This allows water to one appliance to be closed off, while the other appliances remain serviced.



THE FUTURE OF PLUMBING IS HERE

WASTE & SOIL Systems



The system of choice for the professional plumber. Our high-performance MU-PVC waste system provides a permanent watertight connection. Economical, durable & easy to install, our waste systems can withstand domestic hot waste discharge & can easily cope with the majority of chemicals & detergents.



Pipes

3m Solvent Waste Pipe

32mm: WW538
40mm: WW539
50mm: WW709





Made in the UK

Solvent Fittings

Straight Coupling  32mm: WW60 40mm: WW61 50mm: WW711	Expansion Coupling  32mm: P114 40mm: WW64 50mm: Unavailable	90° Knuckle Bend  32mm: WW116 40mm: WW117 50mm: Unavailable	90° Spigot Bend  32mm: WW111 40mm: WW112 50mm: Unavailable	92½° Long Tail Spigot Bend  32mm: WW113 40mm: WW114 50mm: Unavailable	92½° Swept Bend  32mm: WW078 40mm: WW079 50mm: WW712	135° Swept Bend  32mm: WW082 40mm: WW081 50mm: WW713
135° Spigot Bend  32mm: WW108 40mm: WW109 50mm: Unavailable	92½° Tee  32mm: WW084 40mm: WW085 50mm: WW714	Access Cap  32mm: WW90 40mm: WW91 50mm: WW724	Universal Tank Connector  32mm: Unavailable 40mm: WW99 50mm: Unavailable	Reducer  40-32mm: WW057 50-40mm: WW718 50-32mm: WW717	Multiflex Connector  32mm: MFW32 40mm: MFW40 50mm: Unavailable	Bracket  32mm: WW118 40mm: WW119 50mm: WW716





Pan Connectors

Straight Pan Connector  MKS2	90° Bent Pan Connector  MKB2190	Flexible Pan Connector  MKC2	14° Bent Pan Connector  MKB114
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Traps

Adjustable Bottle Trap  32mm: B032A 40mm: B040A 50mm: Unavailable	Adjustable Trap  32mm: P032A 40mm: P040A 50mm: Unavailable	Basin Waste Plug & Chain  32mm: SBW01 40mm: Unavailable 50mm: Unavailable	Chrome Bottle Trap 32mm  32mm: B032RACR 40mm: B040RACR 50mm: Unavailable	Chrome Bottle Trap & 400 x 32mm Pipe  32mm: B032ACR 40mm: Unavailable 50mm: Unavailable	Bath Trap  32mm: Unavailable 40mm: P6040 50mm: Unavailable	P Single Utility Compact Tee  32mm: Unavailable 40mm: PWM040T 50mm: Unavailable
	Standing Waste Washing Machine Trap  32mm: Unavailable 40mm: PWM040 50mm: Unavailable	1-1/2 Bowl Trap  32mm: Unavailable 40mm: XSB040S 50mm: Unavailable	Straight Nozzle  32mm: Unavailable 40mm: NKT001 50mm: Unavailable	Sink Waste & Overflow  32mm: Unavailable 40mm: CWS01 50mm: Unavailable	Bath Waste & Overflow  32mm: Unavailable 40mm: CWB01 50mm: Unavailable	Bath Waste & Overflow with Pop-Up Waste  32mm: Unavailable 40mm: WPU040C 50mm: Unavailable

Floor Gullies

PVCu Tile & Locking Strainer  150mm: GS852 - 200mm: GS853	Stainless Steel Tile, Grid & Cover 150mm x 150mm  S855	Floor Gully 50mm x 55mm Outlet  GS851	Floor Gully Raising Piece  GS854
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110mm Pushfit Soil System

Soil Pipe 3m Socketed  110mm: S508 (W)	Single Socket  110mm: S208 (W)	Slip Coupling  110mm: S211 (W)	Bracket (2 Screw Holes)  110mm: S219 (W)	Boss Pipe (Spigot Tailed)  110mm: S244 (W)	Strap-On Boss  110mm: S343 (W)	32mm Boss Connector  110mm: W58 (B)
40mm Boss Connector  110mm: W59 (B)	50mm Boss Connector  110mm Pushfit: S751 (G) Solvent: S750	Access Cap  110mm: S246 (W)	Waste Manifold  110mm: S200 (G)	Access Branch  110mm: S281 (G)	Branch  110mm: S269 (W)	Access Bend  110mm: S326 (G)
92½° Bend (Spigot Tailed)  110mm: S322 (W)	92½° Bend (Double Tailed)  110mm: S671 (W)	45° Bend (Spigot Tailed)  110mm: S263 (G)	Adjustable Bend 0° - 90°  110mm: MFBSG (G)	110mm x 32/40/50mm Reducer  110mm: MKUAW (W)	Weathering Collar  110mm: S358 (W)	Vent Cowl  110mm: S355 (W)

UNDERGROUND DRAINAGE *Systems*

Our underground drainage & sewer systems offer the most comprehensive range of products available today. High quality & manufactured in the UK to British Standards, our systems reduce maintenance & enhance the overall value of your project.




Underground Pipe 6m Plain Ended		Socketed		Branches	
	110mm: DS549 160mm: DS545	110mm: DS508 160mm: DS550		87.5° Branch Spigot Tailed 110mm: DS269 160mm: DS427	45° Branch Spigot Tailed 110mm: DS278 160mm: DS430

Hoppers			
Back Inlet Hopper Head Spigot Tailed w/ Grating 	150mm x 100mm Back Inlet Plate 	150mm x 150mm Grating 	Square Hopper Head Spigot Tailed w/ Grating 
110mm: DS008 160mm: Unavailable	110mm: DS011 160mm: Unavailable	110mm: DS020 160mm: Unavailable	110mm: DS004 160mm: Unavailable



Sockets			Valve
Single Socket 	Double Socket 	Slip Coupling 	Non Return Valve 
110mm: DS208 160mm: DS406	110mm: DS211 160mm: DS409	110mm: DS212 160mm: DS410	110mm: DS342 160mm: DS442

Bends						
87.5° Bend Spigot Tailed 	45° Bend Spigot Tailed 	Adjustable Bend Spigot Tailed 	87.5° Bend Double Socketed 	45° Bend Double Socketed 	90° Bend Double Socketed 	87.5° Rest Bend Double Socketed 
110mm: DS322 160mm: DS403	110mm: DS331 160mm: DS404	110mm: DS329 160mm: Unavailable	110mm: DS671 160mm: DS431	110mm: DS676 160mm: DS432	110mm: DS675 160mm: Unavailable	110mm: DS663 160mm: Unavailable

Others		
Access Cap 	Rodding Eye 	Multi Gully Trap 
110mm: DS246 160mm: DS421	110mm: DS670 160mm: Unavailable	110mm: DS012 160mm: Unavailable



160mm pipe fittings available for projects by **special order** only.

Case Study: New Office Building, Banana Island, Lagos





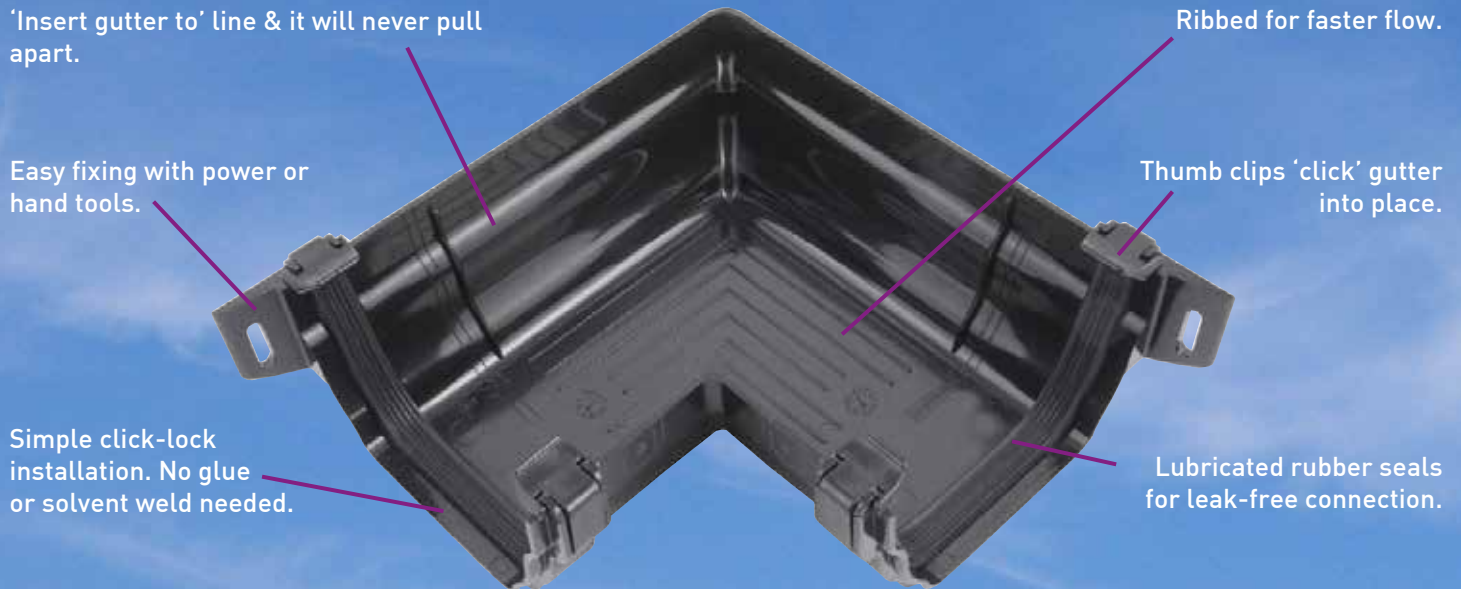
Chambers

FlowPlumb Systems™ inspection chambers are designed to offer an easier, quicker, more precise, watertight & economical alternative to traditionally constructed chambers.

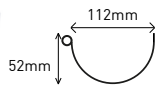
<p>450mm Equal Chamber: DS050</p> 	<p>164mm High Raising Piece for use with DS050: DS058</p> 	<p>Round Cover & Frame: DS062 (3.5 tonne loading suitable for driveways)</p> 	<p>580 x 580 Square to Round Access Cover: DS65 (5 tonne loading)</p> 
<p>230mm Equal Chamber: DS071</p> 	<p>205mm Raising Piece for use with DS071: DS072</p> 	<p>230mm Equal Chamber Cover: DS039</p> 	<p>For more information, please visit: www.gutter-flow.com</p> 

RAINWATER GUTTER *Systems*

Manufactured in the UK & South Africa to British (BBA), European (CE) & South African (SABS) Standards, & certified in Nigeria by SONCAP, our products have world-leading quality built in & are the first choice for professionals everywhere. FlowPlumb Systems™ Rainwater Gutter products are manufactured in state of the art facilities, employing the latest methods of manufacturing & safety, & are feature packed for better performance:



112mm Domestic Rainwater System



White domestic gutter system with rigid support lip & quick-look system for easy & long lasting installation.

Available in: (W)

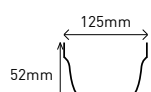


Ideal for:

- House
- Garage
- Guard hut

Flow Rate
up to
??
litres per second

125mm Regency Rainwater System



Elegant profile to enhance the appearance of houses of a prestige nature. Stylish looks & large flow rates make Regency a good choice for medium & large roofs.

Available in: (W) (B) (V)

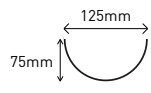


Ideal for:

- Prestige homes
- Hotels
- Light commercial

Flow Rate
up to
4.7
litres per second

125mm Deep Rainwater System



Double-layered co-extruded gutter providing higher resistance to UV, for use on houses & light commercial buildings.

Available in: (W) (B) (V) (G*)

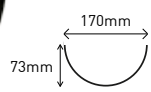


Ideal for:

- Large houses
- Light commercial buildings

Flow Rate
up to
4.9
litres per second

170mm StormFlow Rainwater System



Houses, commercial & light industrial buildings benefit from this larger profile gutter system which can remove up to 6 litres per second of rainwater from the roof.

Available in: (W*) (B) (G*)

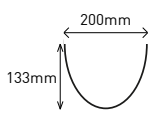


Ideal for:

- Commercial
- Hotels
- Industrial
- Very large houses

Flow Rate
up to
6.0
litres per second

200mm Industrial Rainwater System



Large 200mm rainwater system ideal for retail malls, agricultural or industrial buildings. The largest profile in the GutterFlow range, the industrial system boasts a 133mm deep profile.

Available in: (B) (G*)



Ideal for:

- Retail malls
- Hotels
- Industrial
- Warehouses

Flow Rate
up to
14.0
litres per second

* Special order

			112mm Domestic	125mm Regency	125mm Deep	170mm StormFlow	200mm Industrial
	Gutter 4m	○	RG40W	WR896	WR640	WR515	-
		●	-	BR896	BR640	BR515	R740
		●	-	VR896	VR640	-	-
		●	-	-	GR640	GR515	R740
	Gutter Connector	○	GC12W	WR908	WR608	WR042	-
		●	-	BR908	BR608	BR042	R708
		●	-	VR908	VR608	-	-
		●	-	-	GR608	GR042	R708
	Gutter Support Bracket	○	SB12W	WR910	WR610	WR452	-
		●	-	BR910	BR610	BR452	R710
		●	-	VR910	VR610	-	-
		●	-	-	GR610	GR452	R710
	Gutter Angle 90° External / Internal	○	UA12W	WR935 / WR945	WR605 / WR615	WR451	- / R705
		●	-	BR935 / BR945	BR605 / BR615	BR451	- / R705
		●	-	VR935 / VR945	VR605 / VR615	-	- / R705
		●	-	-	GR605 / GR615	GR451	-
	Gutter Angle 135° External / Internal	○	UA135W	WR937 / WR947	WR607 / WR617	-	R707 / -
		●	-	BR937 / BR947	BR607 / BR617	-	-
		●	-	VR937 / VR947	VR607 / VR617	-	R707 / -
		●	-	-	GR607 / GR617	-	-
	Gutter Running Outlet	○	CO12W	WR911	WR611	WR454	-
		●	-	BR911	BR611	BR454	R711
		●	-	VR911	VR611	-	-
		●	-	-	GR611	GR454	R711
	Gutter Stopped Outlet	○	-	WR924	-	WR455	-
		●	-	BR924	-	BR455	R716
		●	-	VR924	-	-	-
		●	-	-	-	GR455	R716
	Gutter Stopped Outlet External	○	SE12W	WR913	WR613	WR402	-
		●	-	BR913	BR613	BR402	R713
		●	-	VR913	VR613	-	-
		●	-	-	GR613	GR402	R713
	Gutter Stopped Outlet Internal	○	SI12W	WR902	WR602	-	-
		●	-	BR902	BR602	-	-
		●	-	VR902	VR602	-	-
		●	-	-	GR602	-	-
			80mm Domestic	74mm Regency	68mm Deep	110mm StormFlow	160mm Industrial
	Downpipe (3m / 4m)	○	DP80W / -	- / WR893	- / WR520	R505 / R506	-
		●	-	- / BR893	- / BR520	R505 / R506	S534 / S535
		●	-	- / VR893	- / VR520	-	-
		●	-	-	- / GR520	R505 / R506	S534 / S535
	Downpipe Branch	○	-	WR922	WR022	-	-
		●	-	BR922	BR022	BR336	-
		●	-	VR922	VR022	-	-
		●	-	-	GR022	GR336	S427
	Downpipe Connector	○	PS80W	WR917	WR017	S208	-
		●	-	BR917	BR017	S208	S406
		●	-	VR917	VR017	-	-
		●	-	-	GR017	S208	S406
	Downpipe Bend 92½°	○	PB45W	-	WR577	S322	-
		●	-	-	BR577	S322	S403
		●	-	-	VR577	-	-
		●	-	-	GR577	S322	S403
	Downpipe Bend 112½° (Top / Bottom)	○	PB90MF / PB90W	WR920	WR020	S270 / S721	-
		●	-	BR920	BR020	S270 / S721	S424 / S425
		●	-	VR920	VR020	-	-
		●	-	-	GR020	S270 / S721	S424 / S425
	Access Pipe	○	-	-	WR001	-	-
		●	-	-	BR001	S309	S472
		●	-	-	VR001	-	-
		●	-	-	GR001	S309	S472
	Downpipe Bracket (1 Screw / 2 Screw)	○	PC80W	WR919	WR046	S217 / S219	-
		●	-	BR919	BR046	S217 / S219	S412 / -
		●	-	VR919	VR046	-	-
		●	-	-	GR046	S217 / S219	S412 / -
	Downpipe Shoe	○	SH80W	WR921	WR021	S266	-
		●	-	BR921	BR021	S266	S436
		●	-	VR921	VR021	-	-
		●	-	-	GR021	S266	S436



Our manufacturing plants in the UK are part of over 100 throughout the world that together employ over 14,000 experts in waste water drainage production. We offer system solutions to waste water problems, including a full range of sizes, colours, pipes, fittings & profiles for guttering, drainage & underground sewerage. Made with easy installation in mind, our products feature; pivot clips, fixing wings, 'fix to' markings & pre-lubricated seals.

GUTTER INSTALLATION *Guide*

Essential Tools



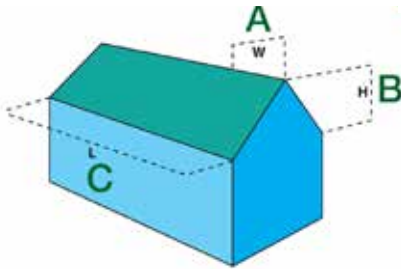
Optional Tools



STEP 1 - Choosing the Right Size Gutter

1: Calculate Effective Roof Area

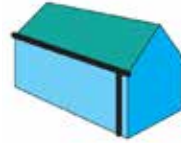
This can be calculated using the following formula:



$$A + B/2 \times C = \text{Roof Area in m}^2$$



2: Select Your Profile (End Downpipe)



Profile	Roof Area m ²
112m	up to 43m ²
125mm	up to 101m ²
Regency	up to 101m ²
170mm	up to 136m ²
200mm	up to 282m ²

or

3: Select Your Profile (Centre Downpipe)



Profile	Roof Area m ²
112m	up to 86m ²
125mm	up to 182m ²
Regency	up to 202m ²
170mm	up to 258m ²
200mm	up to 534m ²




STEP 2 - Before Starting Work

1. Always assess the job before any work at height is carried out.
2. Never attempt the job alone - PVC gutter can catch in the wind.
3. Ensure all equipment is checked, is suitable & in good repair.
4. Ensure adequate fall restraints / protection is used.
5. Always wear safety clothing on site.


STEP 3 - Installation

1


You will need:



- Identify position of the drain.
- Run a plumb line where Downpipe is to be positioned, ending at the drain.
- Fix Gutter Outlet at top of plumb-line.




2



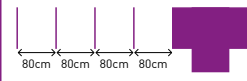
- Check that the fascia is level & determine the gutter fall from the furthest end towards the Outlet.
- Fix the Support Bracket at the furthest end.
- Run a string line from the Support Bracket to the Outlet.



3



- From the Outlet, fix Support Bracket at intervals of 80cm following the gradient of the string line.




4



- Insert the Gutter into the Outlet level with the 'insert to here' line.
- At the other end of the Gutter, mark the position where the Joint Bracket will be fixed onto the fascia.



5



- Remove the Gutter & fix Joint Bracket on the mark.
- Re-insert Gutter into Outlet & Joint Bracket & click into place.
- Repeat until last length of Gutter.



6



- Cut the last piece of Gutter to the required length to finish the run. Make sure the cut is square.
- Fix the last piece of Gutter & a Stop End into the final Support Bracket.



7



- Fit the top Offset Bend to the Outlet.
- Holding the Bottom Offset Bend, measure the length of pipe needed (left) & cut Downpipe section to fit.
- Fix all sections of Downpipe together.




8




- Use the Spirit Level to ensure Downpipe is straight.
- Fit a Pipe Clip below the Bottom Offset Bend then every 80cm down the Downpipe.
- Fit the Downpipe Shoe onto the end of the Downpipe.



9



- Check the water tightness of the Gutter.
- Block off the Gutter Outlet.
- Fill the Gutter with water.
- Correct any leaks, then repeat. When satisfied, unblock the Outlet.



for more information, visit:

www.gutter-flow.com

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WEBSITE: www.flowplumb.com