

LAMONTITE



Made in England



FITTINGS CATALOGUE



1954 **60** 2014
Celebrating Sixty Years In Business

The Company



1954 **60** 2014

Celebrating Sixty Years In Business

2014 sees Flowflex Components celebrate its 60th year in business. Established in 1954 the Flowflex name has been synonymous with the manufacture and supply of high quality non-ferrous plumbing fittings for use with all applications in the plumbing and heating trade.

Since 1977 the company has operated from a single 6 acre site with easy access to international road, rail, sea and air links. Based in Derbyshire, in the heart of the United Kingdom, Flowflex provides its customers with a comprehensive product portfolio; supplying a wide range of compression; copper and copper alloy plumbing fittings and valves in a variety of configurations and sizes.

The manufacturing facilities cover hot press forging and an array of machining centres in the manufacture of the brass components. Recent investment in new plant and new developments in the internal sales office, IT, order processing and distribution have all been undertaken to ensure the quality of service and support to customers is continually improved.

For 60 years the well established Flowflex brand names have enjoyed an enviable reputation for product quality, reliability and service. Today products are not only sold throughout Europe but also to other major markets in the Middle East and Far East. Flowflex continues to demonstrate its ability to supply consistently high quality components by its ISO 9001:2008 accreditation.

Customers can be reassured as products are independently tested and certified to ensure they comply with British and International Standards; and where appropriate, Flowflex holds a number of specific product approvals for the fittings and valves supplied.



Contents

Page 4 Lamontite Compression Fittings



Introduction & Approvals	Page 4
Working Temperatures & Pressures	Page 5
Jointing Techniques	Page 6
Lamontite Compression Fittings Range	Page 7 - 17

Page 18 Solder Ring Fittings



Introduction & Approvals	Page 18
Working Temperatures & Pressure	Page 19
Jointing Techniques	Page 20
Copper Solder Ring Fittings Range	Page 21 - 22
Brass Solder Ring Fittings Range	Page 23

Page 24 End Feed Fittings



Introduction & Approvals	Page 24
Working Temperatures & Pressure	Page 25
Jointing Techniques	Page 26
Copper End Feed Fittings Range	Page 27 - 30
Bronze End Feed Fittings Range	Page 31

Page 32 Large End Feed Brazing Fittings



Introduction & Approvals	Page 32
Working Temperatures & Pressure	Page 33
Jointing Techniques	Page 34
Large Copper End Feed Brazing Fittings Range	Page 35 - 37
Large Bronze End Feed Brazing Fittings Range	Page 38

Page 40 PEX Pipe & Fittings



Introduction & Approvals	Page 40 - 41
Jointing Techniques	Page 42
PEX Pipe & Fittings Range	Page 43 - 45

Lamontite Compression Fittings

Introduction & Approvals

Manufactured in the UK to the most exacting standard Flowflex demonstrates its ability to supply consistently high quality fittings. Flowflex is a British Standards Institution registered company (ISO9001:2008) and operates a quality management system for the manufacture and supply of components and fittings for use in all applications in the plumbing and heating industry.



All Flowflex Compression Fittings are guaranteed against manufacturing defects for 25 years, when installed in accordance with our instructions on specified tube materials and applications.

Flowflex Compression fittings are designed to join copper tubes that are manufactured to BS EN 1057. Flowflex Compression fittings create a mechanical joint when tightening the nut, compressing the ring onto the tube.

Flowflex Compression fittings are suitable for use on hot and cold water services, heating installations, fuel services and industrial engineering applications. Fittings are suitable in low pressure gas pipework in domestic premises using copper tube manufactured to EN 1057.

Compression fittings are available in four finishes to connect to copper, stainless steel and polyethylene tube with appropriate liner:

- Standard brass fittings.
- Dezincification resistant (DZR) fittings.
- Chrome plate finish, for use with chrome plated copper tubes.
- Nickel plate finish, for use with stainless steel tubes.

Manufactured from brass bar which conforms to British (CZ) and European (CW) material designs:

CW614N (CZ121)	Standard Brass Fittings
CW617N (CZ122)	Standard Brass Fittings
CW602N (CZ132)	DZR Fittings



- Compression Ends manufactured to EN1254-2.
- Male and Female Threaded Ends manufactured to EN 1254-2.
- WRAS approved (8mm - 54mm).
- A Kitemark Licence is held for an extensive range of Compression Fittings.
- Marked Flowflex UK EN 1254-2 on Cap Nut.



Lamontite Compression Fittings

Working Temperatures & Pressures

Flowflex Components Ltd supply UK made Compression fittings throughout Europe; Fittings comply with the following European Approvals:

GASTEC	Approval for Compression Range
KIWA	Approval for Compression Range
ETA	Denmark Approval
SITAC	Sweden Approval
STF	Finland Approval



When Correctly assembled with copper tubes manufactured to BS EN 1057 Compression fittings can operate at the temperatures and pressures below:

Maximum Temperatures	Max pressures for nominal diameters	
	From 6mm up to and including 54mm	Over 54mm up to and including 108mm
°C	BAR	BAR
30	16	10
65	10	6
110	6	4
120	5	3
Note 1: Intermediate pressure rating shall be determined by interpolation.		
Note 2: Certain designs of compression fittings are suitable for use at temperatures / pressure ratings outside those given in this table. For such application the advice of the manufacturer should be sought.		

Guidelines for ordering purposes:

To order a 15mm Straight Coupling in Standard Brass, DZR Brass, Natural or Chrome Plate finish, see example below:

Code	Finish
P901.05	Standard Brass
P901DR.05	DZR Brass
P901CP.05	Standard Brass Chrome Plate
P901DRCP.05	DZR Brass Chrome Plate

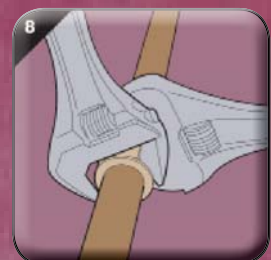
Lamontite Compression Fittings

Joining Techniques

1. Ensure the tube conforms to BS EN 1057.
2. Select the correct fitting for the size of the tube to be connected.
3. Ends of the tube for jointing must be cut cleanly across the tube diameter and be free from contamination, surface damage or defects.
4. Enter the tube through the thrust nut and compression ring full into the fitting until positive contact is made with the tube stop.
5. Make sure the sealing faces of the joint and threads are clean and free from swarf and any contamination. A little light oil applied to the threads of the fittings is useful in reducing friction during tightening. With correctly made joints, jointing compounds should not be required, although in certain circumstances these may offer practical advantages.
6. Care should be taken that the compression olive is not placed over any identification mark or other indentation on the tube.
7. Hand tighten the thrust nuts until ALL slack in joint is taken up.
8. Complete tightening should be made using a suitable spanner. Ensure the axial alignment of the tube and fittings during tightening operation and thereafter. Over-tightening should be avoided as this may destroy the watertight seal.

For guidance table below:

12mm	1 1/4 Turns
15mm	1 1/4 Turns
18mm	1 1/4 Turns
22mm	1 1/4 Turns
28mm	1 1/4 Turns
35mm	3/4 Turns
42mm	3/4 Turns
54mm	3/4 Turns



Male & Female Joints

- Taper threads should be assembled using a WRAS Approved sealant or tape. E.G. PTFE
- Parallel threads should be assembled using washers WRAS Approved.

Notes: Some authorities and System Specifications preclude the use of jointing compounds or require that only certain proprietary material may be used. Before utilising jointing compound it is the responsibility of the installer to ensure compliance.

Lamontite Compression Fittings

Dimensions & Codes:

Equal fittings with uniform connections are shown with one size.

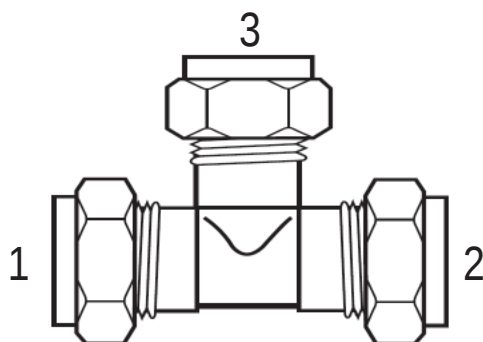
E.G. 15mm

Reduced fittings with two connections are shown with the largest size first.

E.G. 22 x 15mm

Tees and other reduced fittings of unequal sizes are shown with the largest end first, then the opposite run, followed by the branch.

E.G. 22 x 22 x 15mm



Straight Coupling		Code	Size	Pack	Box
		P901.01	6mm	20	300
		P901.02	8mm	20	300
		P901.03	10mm	20	200
		P901.05	15mm	20	200
		P901.08	22mm	10	100
		P901.09	28mm	5	50
		P901.10	35mm	1	40
		P901.11	42mm	1	30
		P901.12	54mm	1	20
Reducing Coupling		Code	Size	Pack	Box
		P901.14	10 x 8mm	20	200
		P901.15	12 x 8mm	20	200
		P901.16	12 x 10mm	20	200
		P901.17	15 x 8mm	20	300
		P901.18	15 x 10mm	20	200
		P901.19	15 x 12mm	20	200
		P901.20	22 x 15mm	10	100
		P901.21	28 x 15mm	1	50
		P901.22	28 x 22mm	1	50
		P901.225	35 x 22mm	1	40
		P901.23	35 x 28mm	1	40
		P901.2361	42 x 35mm	1	30
		P901.24	54 x 42mm	1	20

Lamontite Compression Fittings

Straight Male Iron Coupling - Parallel		Code	Size	Pack	Box
		P902.04	8mm x 1/4"	20	300
		P902.05	8mm x 3/8"	20	300
		P902.07	10mm x 1/4"	20	200
		P902.08	10mm x 3/8"	20	200
		P902.09	10mm x 1/2"	20	200
		P902.10	12mm x 1/4"	20	200
		P902.11	12mm x 3/8"	20	200
		P902.12	12mm x 1/2"	20	200
		P902.13	15mm x 1/4"	20	200
		P902.15	15mm x 1/2"	20	200
		P902.17	15mm x 3/4"	20	200
		P902.20	22mm x 1/2"	10	100
		P902.21	22mm x 3/4"	10	100
		P902.22	22mm x 1"	10	100
		P902.224	28mm x 1/2"	10	100
		P902.221	28mm x 3/4"	1	50
		P902.23	28mm x 1"	5	50
		P902.24	35mm x 1 1/4"	1	40
		P902.25	42mm x 1 1/2"	1	20
		P902.26	54mm x 2"	1	20
Straight Male Iron Coupling - Taper		Code	Size	Pack	Box
		P902T.02	6mm x 1/4"	20	300
		P902T.04	8mm x 1/4"	20	300
		P902T.05	8mm x 3/8"	20	300
		P902T.06	10mm x 1/4"	20	300
		P902T.07	10mm x 3/8"	20	200
		P902T.08	10mm x 1/2"	20	200
		P902T.09	12mm x 1/4"	20	200
		P902T.10	12mm x 3/8"	20	200
		P902T.11	12mm x 1/2"	20	200
		P902T.12	15mm x 1/4"	20	200
		P902T.13	15mm x 3/8"	20	200
		P902T.14	15mm x 1/2"	20	200
		P902T.18	22mm x 3/4"	10	100
		P902T.182	22mm x 1"	10	100
		P902T.185	28mm x 3/4"	10	50
		P902T.19	28mm x 1"	5	50

Lamontite Compression Fittings

Straight Female Iron Coupling	Code	Size	Pack	Box
	P903.02	8mm x 3/8"	20	300
	P903.03	8mm x 1/2"	20	300
	P903.05	10mm x 3/8"	20	200
	P903.06	10mm x 1/2"	20	200
	P903.07	12mm x 1/4"	20	200
	P903.08	12mm x 3/8"	20	200
	P903.09	12mm x 1/2"	20	200
	P903.10	15mm x 1/4"	20	200
	P903.11	15mm x 3/8"	20	200
	P903.12	15mm x 1/2"	20	200
	P903.14	15mm x 3/4"	20	200
	P903.17	22mm x 1/2"	10	100
	P903.18	22mm x 3/4"	10	100
	P903.19	22mm x 1"	10	100
	P903.194	28mm x 1/2"	10	100
	P903.195	28mm x 3/4"	10	100
	P903.20	28mm x 1"	5	50
	P903.21	35mm x 1 1/4"	5	50
	P903.22	42mm x 1 1/2"	1	30
	P903.23	54mm x 2"	1	20
Straight Adaptor Extended Thread c/w Back Nut	Code	Size	Pack	Box
	P902B.1	15mm x 1/2"	20	100
	P902B.2	22mm x 3/4"	10	50
	P902B.3	28mm x 1"	5	50
	P902B.4	35mm x 1 1/4"	1	30
	P902B.5	42mm x 1 1/2"	1	20
	P902B.6	54mm x 2"	1	10
Straight Flanged Tank Connector	Code	Size	Pack	Box
	P921.1	15mm	20	100
	P921.2	22mm	10	100
	P921.3	28mm	5	50

Lamontite Compression Fittings

Stop Ends	Code	Size	Pack	Box
	P923.1	8mm	20	300
	P923.2	10mm	20	300
	P923.3	12mm	20	300
	P923.4	15mm	20	300
	P923.5	22mm	10	200
	P923.6	28mm	5	100
	P923.7	35mm	1	100
	P923.8	42mm	1	50
	P923.9	54mm	1	30
90 Deg Equal Elbow	Code	Size	Pack	Box
	P801.01	6mm	20	300
	P801.02	8mm	20	300
	P801.03	10mm	20	200
	P801.04	12mm	20	200
	P801.05	15mm	20	200
	P801.08	22mm	10	100
	P801.09	28mm	5	50
	P801.10	35mm	1	30
	P801.11	42mm	1	20
	P801.12	54mm	1	10
90 Deg Reducing Elbows	Code	Size	Pack	Box
	P801.035	12 x 10mm	20	200
	P801.085	22 x 15mm	10	100
	P801.092	28 x 15mm	5	50
	P801.098	28 x 22mm	1	50
90 Deg Male Iron Elbows - Parallel	Code	Size	Pack	Box
	P802.01	8mm x 1/4"	20	200
	P802.02	10mm x 1/4"	20	200
	P802.03	10mm x 3/8"	20	200
	P802.031	10mm x 1/2"	20	200
	P802.05	12mm x 3/8"	20	200
	P802.051	12mm x 1/2"	20	200
	P802.06	15mm x 1/4"	20	200
	P802.07	15mm x 3/8"	20	200
	P802.08	15mm x 1/2"	20	200
	P802.09	15mm x 3/4"	20	200

Lamontite Compression Fittings

90 Deg Male Iron Elbows - Parallel Cont	Code	Size	Pack	Box
	P802.11	22mm x 1/2"	10	100
	P802.12	22mm x 3/4"	10	100
	P802.13	22mm x 1"	10	100
	P802.141	28mm x 3/4"	10	100
	P802.14	28mm x 1"	5	50
	P802.15	35mm x 1 1/4"	1	30
	P802.16	42mm x 1 1/2"	1	20
	P802.17	54mm x 2"	1	10
90 Deg Male Iron Elbows - Taper	Code	Size	Pack	Box
	P802T.02	6mm x 1/4"	20	300
	P802T.04	8mm x 1/4"	20	200
	P802T.05	10mm x 1/4"	20	200
	P802T.06	10mm x 3/8"	20	200
	P802T.07	10mm x 1/2"	20	200
	P802T.08	12mm x 1/4"	20	200
	P802T.09	12mm x 3/8"	20	200
	P802T.10	12mm x 1/2"	20	200
	P802T.11	15mm x 1/4"	20	200
	P802T.12	15mm x 3/8"	20	200
	P802T.13	15mm x 1/2"	20	200
	P802T.14	22mm x 3/4"	20	100
	P802T.15	22mm x 1"	10	100
	P802T.16	28mm x 1"	5	50
90 Deg Female Iron Elbows	Code	Size	Pack	Box
	P803.01	8mm x 1/4"	20	200
	P803.02	10mm x 1/4"	20	200
	P803.03	10mm x 3/8"	20	200
	P803.031	10mm x 1/2"	20	200
	P803.04	12mm x 1/4"	20	200
	P803.05	12mm x 3/8"	20	200
	P803.051	12mm x 1/2"	20	200
	P803.055	15mm x 3/8"	20	200
	P803.06	15mm x 1/2"	20	200
	P803.063	15mm x 3/4"	20	100
	P803.068	22mm x 1/2"	20	100
	P803.07	22mm x 3/4"	20	100
	P803.08	22mm x 1"	20	100

Lamontite Compression Fittings

90 Deg Female Iron Elbows Cont	Code	Size	Pack	Box
	P803.084	28mm x 1/2"	20	100
	P803.085	28mm x 3/4"	20	100
	P803.09	28mm x 1"	10	50
	P803.10	35mm x 1 1/4"	5	30
	P803.11	42mm x 1 1/2"	5	20
	P803.12	54mm x 2"	5	10
Wallplate Elbow	Code	Size	Pack	Box
	P803WP.2	15mm x 1/2"	20	100
	P803WP.4	22mm x 1/2"	10	50
	P803WP.5	22mm x 3/4"	10	50
Equal Tees	Code	Size	Pack	Box
	P701.01	6mm	20	300
	P701.02	8mm	20	200
	P701.03	10mm	20	200
	P701.04	12mm	20	200
	P701.05	15mm	20	100
	P701.08	22mm	10	50
	P701.09	28mm	5	40
	P701.10	35mm	1	25
	P701.11	42mm	1	20
	P701.12	54mm	1	10
Tee - Reduced Centre Branch	Code	Size	Pack	Box
	P702.0121	12 x 12 x 10mm	20	200
	P702.125	15 x 15 x 12mm	20	100
	P702.16	22 x 22 x 15mm	10	50
	P702.20	28 x 28 x 22mm	5	40
	P702.21	35 x 35 x 15mm	1	25
	P702.22	35 x 35 x 22mm	1	25
	P702.23	35 x 35 x 28mm	1	25
	P702.24	42 x 42 x 15mm	1	20
	P702.25	42 x 42 x 22mm	1	20
	P702.26	42 x 42 x 28mm	1	20
	P702.27	42 x 42 x 35mm	1	20
	P702.33	54 x 54 x 15mm	1	15
	P702.335	54 x 54 x 22mm	1	15

Lamontite Compression Fittings

<i>Tee - Reduced Centre Branch Cont</i>	Code	Size	Pack	Box
	P702.34	54 x 54 x 28mm	1	15
	P702.36	54 x 54 x 35mm	1	10
	P702.37	54 x 54 x 42mm	1	10
Tee - Reduced End	Code	Size	Pack	Box
	P703.15	22 x 15 x 22mm	10	50
	P703.17	28 x 15 x 28mm	5	40
	P703.18	28 x 22 x 28mm	5	40
Tee - Reduced End and Branch	Code	Size	Pack	Box
	P704.14	22 x 15 x 15mm	10	50
	P704.168	28 x 15 x 15mm	5	50
	P704.171	28 x 22 x 22mm	5	50
	P704.224	35 x 28 x 28mm	1	25
	P704.2245	42 x 35 x 35mm	1	20
Tee - Reduced Both Ends	Code	Size	Pack	Box
	P705.123	12 x 12 x 15mm	20	200
	P705.13	15 x 15 x 22mm	20	100
	P705.132	15 x 15 x 28mm	10	50
	P705.165	22 x 22 x 28mm	10	50
	P705.201	28 x 28 x 35mm	5	50
Tee - Female Iron Branch	Code	Size	Pack	Box
	P717.1	15 x 15 x 1/2"	20	100
	P717.2	22 x 22 x 1/2"	10	50
	P717.3	22 x 22 x 3/4"	10	50
	P717.5	28 x 28 x 1/2"	5	25
	P717.6	28 x 28 x 3/4"	5	25
	P717.4	28 x 28 x 1"	5	25
Tee - Female Iron End	Code	Size	Pack	Box
	P737.1	15 x 1/2" x 15mm	20	100
	P737.3	22 x 1/2" x 22mm	10	50
	P737.4	28 x 3/4" x 28mm	5	25

Lamontite Compression Fittings

Wallplate Tee	Code	Size	Pack	Box
	P717WP.1	15 x 15 x 1/2"	20	50
	P717WP.15	22 x 22 x 1/2"	10	50
Crossover	Code	Size	Pack	Box
	P707.1	15mm	1	100
	P707.2	22mm	1	50
	P707.3	28mm	1	20
Cap Nuts	Code	Size	Pack	Box
	P163.05	15mm	100	700
	P163.07	22mm	50	500
	P163.08	28mm	25	30
Blank Nuts c/w Washers	Code	Size	Pack	Box
	P163B.4	15mm (1/2")	100	600
	P163B.6	22mm	50	400
	P163B.8	28mm	25	300
	P163B.71	35mm	1	300
Compression Rings (Olives)	Code	Size	Pack	Box
	P165DR.03	10mm	100	3000
	P165DR.05	15mm	100	3000
	P165DR.07	22mm	100	2000
	P165DR.08	28mm	50	500
	P165DR.10	35mm	10	500
	P165DR.11	42mm	10	300
	P165DR.12	54mm	10	300

Lamontite Compression Fittings

Reducing Set	Code	Size	Pack	Box
	P168DR.006	12 x 10mm	20	500
	P168DR.02	15 x 10mm	20	500
	P168DR.03	15 x 12mm	20	500
	P168DR.04	22 x 15mm	20	500
	P168DR.05	28 x 15mm	10	300
	P168DR.06	28 x 22mm	10	300
	P168DR.064	35 x 15mm	10	300
	P168DR.065	35 x 22mm	10	200
	P168DR.07	35 x 28mm	10	200
	P168DR.075	42 x 15mm	10	200
	P168DR.076	42 x 22mm	10	200
	P168DR.08	42 x 28mm	10	100
	P168DR.09	42 x 35mm	10	100
	P168DR.010	54 x 15mm	10	100
	P168DR.110	54 x 22mm	10	100
	P168DR.1101	54 x 28mm	10	100
	P168DR.10	54 x 35mm	10	100
	P168DR.11	54 x 42mm	10	100
Reducing Bush Mi x Fi	Code	Size	Pack	Box
	P172.01	1/4" x 1/8"	20	500
	P172.02	3/8" x 1/8"	20	500
	P172.03	3/8" x 1/4"	20	500
	P172.05	1/2" x 1/4"	20	300
	P172.06	1/2" x 3/8"	20	400
	P172.07	3/4" x 1/2"	10	300
	P172.08	1" x 1/2"	10	200
	P172.09	1" x 3/4"	10	440
	P172.10	1 1/4" x 1/2"	10	100
	P172.11	1 1/4" x 3/4"	10	100
	P172.12	1 1/4" x 1"	10	100
	P172.14	1 1/2" x 3/4"	10	100
	P172.15	1 1/2" x 1"	10	100
	P172.16	1 1/2" x 1 1/4"	10	100
	P172.19	2" x 1"	5	50
	P172.20	2" x 1 1/4"	5	50
	P172.21	2" x 1 1/2"	5	50

Lamontite Compression Fittings

Brass Flanged Back Nuts	Code	Size	Pack	Box
	P177.1	1/2"	100	1000
	P177.2	3/4"	25	500
	P177.3	1"	25	250
	P177.4	1 1/4"	10	250
	P177.5	1 1/2"	10	100
	P177.007	2"	1	100
	P921.2A	22mm	20	300
	P177.08	28mm	10	400
Brass Flanged Plugs	Code	Size	Pack	Box
	P179.1	1/2"	10	500
	P179.2	3/4"	10	500
	P179.3	1"	5	100
	P179.4	1 1/4"		
	P179.5	1 1/2"		
	P179.6	2"		

Solder Ring Fittings

Introduction & Approvals



Flowflex Solder Ring Fittings are manufactured in Copper and Brass, complying with international recognised standards.

Flowflex Solder Ring fittings are a fast, reliable and economic solution to the assembly of copper tube which are manufactured to BS EN 1057. A ring of high quality lead – free solder is located in each fitting. Secure jointing is achieved through capillary action as the pre soldered fitting is heated to make both an easy and effective connection, without the need to use additional solder.

Flowflex is a British Standards Institution registered company (ISO9001:2008) and operates a quality management system for the manufacture and supply of components and fittings for use in all applications in the plumbing and heating industry.

All Flowflex Solder Ring Fittings are guaranteed against manufacturing defects for 25 years, when installed in accordance with our instructions on specified tube materials and applications.

- Available in sizes from 8mm to 54mm
- Copper fittings manufactured to EN1254-1: 1998
- Brass manufactured to EN1254-2
- Gunmetal (Bronze) fittings manufactured to EN1254-4
- WRAS approved
- Marked with the Flowflex Logo
- Marked with the Kitemark Symbol
- KM Lead - Free Solder 99.304% Sn



Suitable for use on hot and cold water services, heating installations, fuel services and industrial engineering applications. Fittings are suitable in low pressure gas pipework in domestic premises using copper tube manufactured to EN 1057.



Solder Ring Fittings

Working Temperatures & Pressures

Flowflex Solder Ring fittings are designed to join copper tubes to BS EN 1057.

The Flowflex range of Solder Ring fittings are designed for operation at the temperatures and pressures in the table below:

Typical examples of soldering alloys		Maximum temperature (1) °C	Maximum pressures for nominal diameters (1) (2) BAR	
			From 6mm up to 34mm	Over 34mm up to 54mm
I	Tin/silver 95/5%	30	25	25
II	Tin/copper Cu 3%	65	25	16
	Max 0.4% min. Remainder Sn	110	16	10

(1) For use in applications outside the scope of this table, the approval of the manufacturer should be obtained.

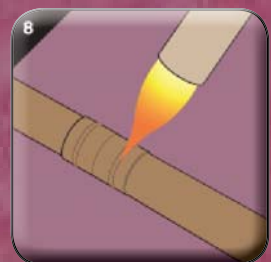
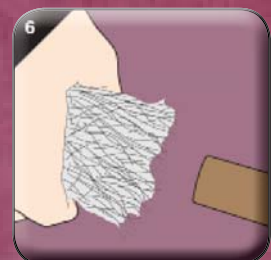
(2) Intermediate pressure ratings shall be obtained by interpolation.



Solder Ring Fittings

Joining Techniques

1.	Equipment used when joining Solder Ring Fittings: • Blow Lamp • Wire Brush • Steel Wool • Flux
2.	Ensure the tube conforms to BS EN1057.
3.	Select the correct fitting for the size of the tube to be connected.
4.	Ends of the tube for joining must be cut cleanly across the tube diameter and be free from contamination, surface damage or defects.
5.	Clean the socket of the fitting with a wire brush.
6.	Clean the outside diameter of the tube with fine steel wool.
7.	Apply flux to the socket and the outside diameter of the tube.
8.	Push fittings onto copper tube to the full depth of socket and make joint by applying heat evenly until solder appears between copper tube and fitting.
9.	Remove excess solder if necessary.

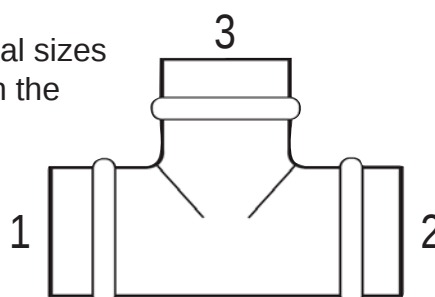


Dimensions & Codes:

Equal fittings with uniform connections are shown with one size.
E.G. 15mm

Reduced fittings with two connections are shown with the largest size first.
E.G. 22 x 15mm

Tees and other reduced fittings of unequal sizes are shown with the largest end first, then the opposite run, followed by the branch.
E.G. 22 x 22 x 15mm



Copper Solder Ring Fittings

Straight Couplings	Code	Size	Pack	Box
	C901SR.05	15mm	25	1000
	C901SR.08	22mm	25	400
	C901SR.09	28mm	10	200
	C901SR.10	35mm	5	180
	C901SR.11	42mm	5	100
	C901SR.12	54mm	2	60
Equal 90 Deg Elbow	Code	Size	Pack	Box
	C801SR.05	15mm	25	1000
	C801SR.08	22mm	25	400
	C801SR.09	28mm	10	200
	C801SR.10	35mm	5	100
	C801SR.11	42mm	5	60
	C801SR.12	54mm	2	30
Equal 45 Deg Elbow	Code	Size	Pack	Box
	C804SR.05	15mm	25	1000
	C804SR.08	22mm	25	400
	C804SR.09	28mm	10	200
	C804SR.10	35mm	5	100
	C804SR.11	42mm	5	60
	C804SR.12	54mm	5	40
Equal Tee	Code	Size	Pack	Box
	C701SR.05	15mm	25	500
	C701SR.08	22mm	25	250
	C701SR.09	28mm	10	120
	C701SR.10	35mm	5	50
	C701SR.11	42mm	5	40
	C701SR.12	54mm	2	20

Copper Solder Ring Fittings

Tee - Reduced Branch	Code	Size	Pack	Box
	C702SR.16	22 x 22 x 15mm	25	300
	C702SR.19	28 x 28 x 15mm	10	180
	C702SR.20	28 x 28 x 22mm	10	150
	C702SR.21	35 x 35 x 22mm	5	90
	C702SR.22	35 x 35 x 15mm	5	90
	C702SR.23	35 x 35 x 28mm	5	90
	C702SR.25	42 x 42 x 22mm	5	90
	C702SR.26	42 x 42 x 28mm	5	40
	C702SR.27	42 x 42 x 35mm	5	40
	C702SR.34	54 x 54 x 22mm	2	20
	C702SR.35	54 x 54 x 28mm	2	20
	C702SR.36	54 x 54 x 35mm	2	20
	C702SR.37	54 x 54 x 42mm	1	20
Fitting Reducer	Code	Size	Pack	Box
	C904SR.20	22 x 15mm	25	750
	C904SR.21	28 x 15mm	10	500
	C904SR.22	28 x 22mm	10	350
	C904SR.232	35 x 15mm	5	300
	C904SR.231	35 x 22mm	5	250
	C904SR.23	35 x 28mm	5	200
	C904SR.233	42 x 15mm	5	150
	C904SR.234	42 x 22mm	5	200
	C904SR.236	42 x 28mm	5	150
	C904SR.2361	42 x 35mm	5	200
	C904SR.237	54 x 15mm	2	100
	C904SR.2375	54 x 22mm	2	100
	C904SR.238	54 x 28mm	2	90
	C904SR.239	54 x 35mm	2	90
	C904SR.24	54 x 42mm	2	90
Stop End	Code	Size	Pack	Box
	C923SR.4	15mm	25	2000
	C923SR.5	22mm	25	800
	C923SR.6	28mm	10	500
	C923SR.7	35mm	5	50
	C923SR.8	42mm	5	50
	C923SR.9	54mm	1	50

Brass Solder Ring Fittings

Straight Male Iron Taper Couplings	Code	Size	Pack	Box
	P902TSR.14	15mm x 1/2"	25	200
	P902TSR.18	22mm x 3/4"	25	200
	P902TSR.19	28mm x 1"	5	50
	P902TSR.20	35mm x 1 1/4"	5	40
	P902TSR.21	42mm x 1 1/2"	5	30
	P902TSR.22	54mm x 2"	2	30
Straight Female Iron Couplings	Code	Size	Pack	Box
	P903SR.12	15mm x 1/2"	25	200
	P903SR.18	22mm x 3/4"	25	100
	P903SR.20	28mm x 1"	10	100
	P903SR.21	35mm x 1 1/4"	5	50
	P903SR.22	42mm x 1 1/2"	5	30
	P903SR.23	54mm x 2"	2	30
Female Iron Elbow	Code	Size	Pack	Box
	P803SR.06	15mm x 1/2"	25	200
	P803SR.07	22mm x 3/4"	25	100

End Feed Fittings

Introduction & Approvals



Flowflex End Feed Fittings, which are manufactured in both Copper and Bronze, are a fast, reliable and economic method of joining copper tubes that are manufactured to BS EN 1057. The End Feed joint is created through the process of capillary action as solder is applied to the End Feed fitting to make an easy, effective connection.

Flowflex is a British Standards Institution registered company (ISO9001:2008) and operates a quality management system for the manufacture and supply of components and fittings for use in all applications in the plumbing and heating industry.

All Flowflex End Feed Fittings are guaranteed against manufacturing defects for 25 years, when installed in accordance with our instructions on specified tube materials and applications.

The quality of materials used and the adoption of rigorous quality control has allowed Flowflex End Feed fittings to obtain the conformity to the following standards.

- Available in sizes 6mm to 54mm.
- Copper 5000 series fittings manufactured to EN 1254-1: 1998
- Marked with the Flowflex Logo
- WRAS Approved

Suitable for use on hot and cold water services, heating installations, fuel services and industrial engineering applications. Fittings are suitable in low pressure gas pipework in domestic premises using copper tube manufactured to EN 1057.



End Feed Fittings

Working Temperatures & Pressures

Flowflex End Feed fittings can be assembled using a variety of soft or hard solders (brazing alloy). Their working temperatures and pressures vary according to which solder has been used. When correctly assembled with copper tube to BS EN 1057, the applicable temperatures and pressures are indicated in the table below.

Typical examples of soldering alloys		Maximum temperature (1) °C	Maximum pressures for nominal diameters (1) (2) BAR	
			From 6mm up to 34mm	Over 34mm up to 54mm
I	Lead/tin 50/50% or 60/40%	30	16	16
		65	10	10
		110	6	6
I	Tin/silver 95/5%	30	25	25
II	Tin/copper Cu 3%	65	25	16
III	Max 0.4% min. Remainder Sn	110	16	10

(1) For use in applications outside the scope of this table, the approval of the manufacturer should be obtained.

(2) Intermediate pressure ratings shall be obtained by interpolation.

NOTE Soldering alloys with lead and brazing alloys with cadmium are not permitted in installations for water for human consumption.



End Feed Fittings

Joining Techniques

The reliability of soft soldered joints is influenced by the type of flux used. Special care should be taken when choosing the correct flux.

1.	Select Equipment: • Blow Lamp • Wire Brush • Steel Wool • Solder • Flux
2.	Ensure the tube conforms to the specification. Flowflex End Feed Fittings are to be installed with copper tubes that conform to BS EN 1057.
3.	Select the correct fitting for the size of the tube to be connected.
4.	Ends of the tube for jointing must be cut cleanly across the tube diameter and be free from contamination, surface damage or defects.
5.	Clean the socket of the fitting with a wire brush.
6.	Clean the outside diameter of the tube with fine steel wool.
7.	Apply flux to the socket and the outside diameter of the tube.
8.	Push fittings onto copper tube to full depth of socket and make Joint by applying heat evenly until solder appears between copper tube and fitting.
9.	Remove excess solder if necessary.



Copper End Feed Fittings

Dimensions & Size Description:

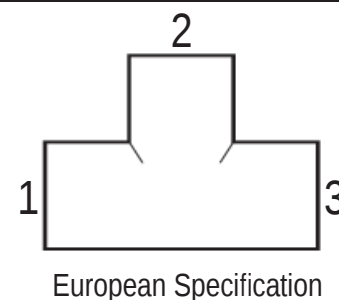
Equal fittings with uniform connections are shown with one size. **E.G. 15mm**

Reduced fittings with two connections are shown with the largest size first. **E.G. 22 x 15mm**

Code (European)

Tees and other reduced fittings of unequal sizes are shown with the largest end first, then the branch, followed by the remaining end on the run.

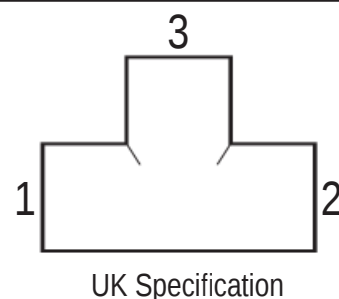
E.G. 5130R.221522



Size Description (U.K.)

Tees and other reduced fittings of unequal sizes are shown with the largest end first, then the opposite run followed by the branch.

E.G. 22 x 22 x 15mm

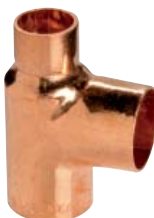


Straight Couplings		Code	Size	Pack	Box
		5270.15	15mm	25	1000
		5270.22	22mm	25	500
		5270.28	28mm	10	300
		5270.35	35mm	5	200
		5270.42	42mm	5	100
		5270.54	54mm	2	60
Reducing Couplings		Code	Size	Pack	Box
		5240.1008	10 x 08mm	25	2000
		5240.1508	15 x 08mm	25	1500
		5240.1510	15 x 10mm	25	1000
		5240.2215	22 x 15mm	25	750
		5240.2815	28 x 15mm	10	350
		5240.2822	28 x 22mm	10	350
		5240.3522	35 x 22mm	5	300
		5240.3528	35 x 28mm	5	200

Copper End Feed Fittings

Reducing Couplings Cont	Code	Size	Pack	Box
	5240.4222	42 x 22mm	5	150
	5240.4228	42 x 28mm	5	150
	5240.4235	42 x 35mm	5	150
	5240.5422	54 x 22mm	1	100
	5240.5428	54 x 28mm	1	60
	5240.5435	54 x 35mm	1	60
	5240.5442	54 x 42mm	1	60
Equal 90 Deg Elbow	Code	Size	Pack	Box
	5090.15	15mm	25	1000
	5090.22	22mm	25	400
	5090.28	28mm	10	200
	5090.35	35mm	5	100
	5090.42	42mm	5	60
	5090.54	54mm	2	30
Equal 45 Deg Elbow	Code	Size	Pack	Box
	5041.15	15mm	25	1250
	5041.22	22mm	25	400
	5041.28	28mm	10	200
	5041.35	35mm	5	100
	5041.42	42mm	5	60
	5041.54	54mm	2	40
Equal Tee	Code	Size	Pack	Box
	5130.15	15mm	25	600
	5130.22	22mm	25	250
	5130.28	28mm	10	100
	5130.35	35mm	5	60
	5130.42	42mm	5	40
	5130.54	54mm	2	20
Tee - Reduced Branch	Code	Size	Pack	Box
	5130R.221522	22 x 22 x 15mm	25	300
	5130R.281528	28 x 28 x 15mm	10	150
	5130R.282228	28 x 28 x 22mm	10	150
	5130R.351535	35 x 35 x 15mm	5	100
	5130R.352235	35 x 35 x 22mm	5	70
	5130R.352835	35 x 35 x 28mm	5	60
	5130R.421542	42 x 42 x 15mm	5	60
	5130R.422242	42 x 42 x 22mm	5	50

Copper End Feed Fittings

Tee - Reduced Branch Cont	Code	Size	Pack	Box
	5130R.422842	42 x 42 x 28mm	5	40
	5130R.423542	42 x 42 x 35mm	5	40
	5130R.541554	54 x 54 x 15mm	2	20
	5130R.542254	54 x 54 x 22mm	2	20
	5130R.542854	54 x 54 x 28mm	2	20
	5130R.543554	54 x 54 x 35mm	2	20
	5130R.544254	54 x 54 x 42mm	1	25
Tee - Reduced End	Code	Size	Pack	Box
	5130R.222215	22 x 15 x 22mm	25	250
	5130R.282815	28 x 15 x 28mm	10	140
	5130R.282822	28 x 22 x 28mm	10	100
Tee - Reduced End and Branch	Code	Size	Pack	Box
	5130R.221515	22 x 15 x 15mm	25	350
	5130R.281515	28 x 15 x 15mm	10	200
	5130R.282222	28 x 22 x 22mm	10	100
	5130R.352828	35 x 28 x 28mm	5	80
Tee - Reduced Both Ends	Code	Size	Pack	Box
	5130R.152215	15 x 22 x 15mm	25	250
	5130R.222822	22 x 28 x 22mm	10	170

Copper End Feed Fittings

Fitting Reducer	Code	Size	Pack	Box
	5243.2215	22 x 15mm	25	750
	5243.2815	28 x 15mm	25	750
	5243.2822	28 x 22mm	10	450
	5243.3515	35 x 15mm	5	300
	5243.3522	35 x 22mm	5	200
	5243.3528	35 x 28mm	5	200
	5243.4215	42 x 15mm	5	150
	5243.4222	42 x 22mm	5	200
	5243.4228	42 x 28mm	5	150
	5243.4235	42 x 35mm	5	200
	5243.5415	54 x 15mm	2	100
	5243.5422	54 x 22mm	2	100
	5243.5428	54 x 28mm	2	90
	5243.5435	54 x 35mm	2	90
	5243.5442	54 x 42mm	2	90
Stop Ends	Code	Size	Pack	Box
	5301.15	15mm	25	2000
	5301.22	22mm	25	800
	5301.28	28mm	10	700
	5301.35	35mm	5	200
	5301.42	42mm	5	100
	5301.54	54mm	1	80
Full Crossovers	Code	Size	Pack	Box
	5085.15	15mm	10	250
	5085.22	22mm	10	100
Part Crossover	Code	Size	Pack	Box
	5086.15	15mm	10	350
	5086.22	22mm	10	120

Bronze End Feed Fittings

Cu x Mi Taper Adaptor Bronze	Code	Size	Pack	Box
	4243G.15X1/2	15mm x 1/2"	10	300
	4243G.22X1/2	22mm x 1/2"	10	300
	4243G.22X3/4	22mm x 3/4"	10	250
	4243G.28X1	28mm x 1"	10	150
	4243G.35X1.1/4	35mm x 1 1/4"	5	100
	4243G.42X1.1/2	42mm x 1 1/2"	5	50
	4243G.54X2	54mm x 2"	5	30
Cu x Fi Straight Bronze	Code	Size	Pack	Box
	4270G.15X1/2	15mm x 1/2"	10	300
	4270G.22X1/2	22mm x 1/2"	10	250
	4270G.22X3/4	22mm x 3/4"	10	200
	4270G.28X1	28mm x 1"	10	100
	4270G.35X1.1/4	35mm x 1 1/4"	5	50
	4270G.42X1.1/2	42mm x 1 1/2"	5	30
	4270G.54X2	54mm x 2"	1	30
Cu x Mi Union Bronze	Code	Size	Pack	Box
	4341G.15x1/2	15mm x 1/2"	25	200
	4341G.22x3/4	22mm x 3/4"	10	200
	4341G.28X1	28mm x 1"	10	100
	4341G.35X1.1/4	35mm x 1 1/4"	5	50
	4341G.42X1.1/2	42mm x 1 1/2"	5	30
	4341G.54X2	54mm x 2"	1	10
Cu x Mi Taper Elbow Bronze	Code	Size	Pack	Box
	4092G.15X1/2	15mm x 1/2"	10	300
	4092G.22X3/4	22mm x 3/4"	10	100
	4092G.28X1	28mm x 1"	10	50
Cu x Fi Elbow Bronze	Code	Size	Pack	Box
	4090G.15X1/2	15mm x 1/2"	25	250
	4090G.22X3/4	22mm x 3/4"	10	150
	4090G.28X1	28mm x 1"	10	80
	4090G.35X1.1/4	35mm x 1 1/4"	5	40
	4090G.42X1.1/2	42mm x 1 1/2"	5	25
	4090G.54X2	54mm x 2"	1	20

Large End Feed Brazing Fittings

Introduction & Approvals



Flowflex large size copper end feed brazing Fittings, which are manufactured in both copper and bronze, are a fast, reliable and economic method of joining copper tubes that are manufactured to BS EN 1057. The End Feed joint is created through the process of capillary action as solder is applied to the End Feed fitting to make an easy, effective connection.

Flowflex is a British Standards Institution registered company (ISO9001:2008) and operates a quality management system for the manufacture and supply of components and fittings for use in all applications in the plumbing and heating industry.

All Flowflex End Feed Fittings are guaranteed against manufacturing defects for 25 years, when installed in accordance with our instructions on specified tube materials and applications.

The quality of materials used and the adoption of rigorous quality control has allowed Flowflex End Feed fittings to obtain the conformity to the following standards.

- Available in sizes 67mm to 159mm.
- Bronze 4000 series fittings manufactured to EN 1254-4: 1998
- Marked with the Flowflex Logo

Flowflex Compression fittings are suitable for use on hot and cold water services, heating installations, fuel services and industrial engineering applications. Fittings are suitable in low pressure gas pipework in domestic premises using copper tube manufactured to EN 1057.



Large End Feed Brazing Fittings

Working Temperatures & Pressures

Flowflex large size copper end feed brazing fittings can be assembled using hard solders (brazing alloy). Their working temperatures and pressures vary according to which solder has been used. When correctly assembled with copper tube to BS EN 1057, the applicable temperatures and pressures are indicated in the table below.

Typical examples of brazing alloys		Maximum temperature (1) °C	Maximum pressures for nominal diameters (1) (2) BAR	
			Over 54mm up to 108mm	Over 108mm up to 159mm
IV	Silver/copper Cadmium-free 55% to 40% Ag	30	16	5
V	Silver with cadmium 30% or 40% Ag	65	16	3
VI	Copper/phosphorus 94/6% or Copper/phosphorus with 2% Silver 92/6/2%	110	10	2

(1) For use in applications outside the scope of this table, the approval of the manufacturer should be obtained.

(2) Intermediate pressure ratings shall be obtained by interpolation.

NOTE Soldering alloys with lead and brazing alloys with cadmium are not permitted in installations for water for human consumption.



Large End Feed Brazing Fittings

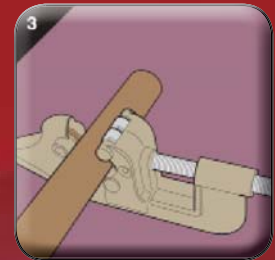
Joining Techniques

1. Ensure the tube conforms to BS EN 1057.
2. Select the correct fitting for the size of the tube to be Connected.
3. Ends of the tube for joining must be cut cleanly across the tube diameter and be free from contamination, surface damage or defects.
4. Clean the outside diameter of the tube and the inside diameter of the socket with wire wool.
5. Flux should be applied to the mating surfaces.
6. Insert the pipe into the socket and Braze in accordance with the brazing rod manufacturer's instructions.
7. After brazing, fittings must be allowed to cool naturally.
8. Remove all flux residues with hot water.

NOTE:

67mm – 159mm copper fittings must be hard soldered using 'silver brazing alloy' rods.

Soft soldering is not permitted.



Dimensions & Size Description:

Equal fittings with uniform connections are shown with one size. **E.G. 15mm**

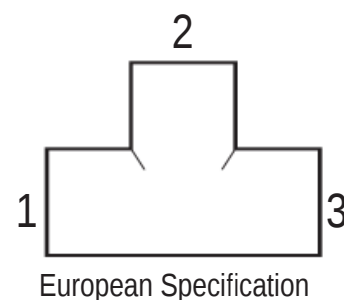
Reduced fittings with two connections are shown with the largest size first. **E.G. 22 x 15mm**

Large Copper End Feed Fittings

Code (European)

Tees and other reduced fittings of unequal sizes are shown with the largest end first, then the branch, followed by the remaining end on the run.

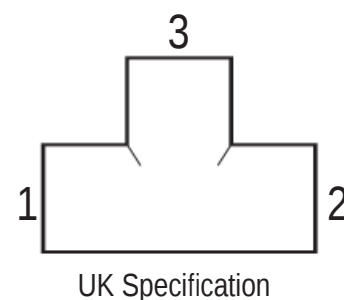
E.G. 5130R.221522



Size Description (U.K.)

Tees and other reduced fittings of unequal sizes are shown with the largest end first, then the opposite run followed by the branch.

E.G. 22 x 22 x 15mm



Straight Coupling	Code	Size	Pack	Box
	5270.67	67mm	1	30
	5270.76	76mm	1	36
	5270.108	108mm	1	12
	5270.133	133mm	1	4
	5270.159	159mm	1	4
Reduced Coupling	Code	Size	Pack	Box
	5240.7654	76 x 54mm	1	25
	5240.7667	76 x 67mm	1	25
Equal 90 Deg Elbow	Code	Size	Pack	Box
	5090.67	67mm	1	15
	5090.76	76mm	1	10
	5090.108	108mm	1	3
	5090.133	133mm	1	3
	5090.159	159mm	1	1

Large Copper End Feed Fittings

Equal 45 Deg Elbow	Code	Size	Pack	Box
	5041.67	67mm	1	20
	5041.76	76mm	1	18
	5041.108	108mm	1	5
	5041.133	133mm	2	30
	5041.159	159mm	1	2
Equal Tee	Code	Size	Pack	Box
	5130.67	67mm	1	10
	5130.76	76mm	1	8
	5130.108	108mm	1	3
	5130.133	133mm	1	1
	5130.159	159mm	1	1
Tee - Reduced Branch	Code	Size	Pack	Box
	5130R.672867	67 x 67 x 28mm	1	20
	5130R.673567	67 x 67 x 35mm	1	20
	5130R.674267	67 x 67 x 42mm	1	20
	5130R.675467	67 x 67 x 54mm	1	12
	5130R.762876	76 x 76 x 28mm	1	10
	5130R.763576	76 x 76 x 35mm	1	10
	5130R.764276	76 x 76 x 42mm	1	10
	5130R.765476	76 x 76 x 54mm	1	10
	5130R.766776	76 x 76 x 67mm	1	10
	5130R.10822108	108 x 108 x 22mm	1	5
	5130R.10835108	108 x 108 x 35mm	1	5
	5130R.10842108	108 x 108 x 42mm	1	5
	5130R.10854108	108 x 108 x 54mm	1	5
	5130R.10867108	108 x 108 x 67mm	1	4
	5130R.10876108	108 x 108 x 76mm	1	4
	5130R.15954159	159 x 159 x 54mm	1	1
	5130R.15967159	159 x 159 x 67mm	1	1
	5130R.15976159	159 x 159 x 76mm	1	1
	5130R.159108159	159 x 159 x 108mm	1	1
	5130R.159133159	159 x 159 x 133mm	1	1

Large Copper End Feed Fittings

<i>Tee - Reduced Branch cont</i>	Code	Size	Pack	Box
	5243.6722	67 x 22mm	1	25
	5243.6728	67 x 28mm	1	25
	5243.6735	67 x 35mm	1	25
	5243.6742	67 x 42mm	1	25
	5243.6754	67 x 54mm	1	20
	5243.7635	76 x 35mm	1	15
	5243.7642	76 x 42mm	1	36
	5243.7654	76 x 54mm	1	30
	5243.7667	76 x 67mm	1	30
	5243.10842	108 x 42mm	1	12
	5243.10854	108 x 54mm	1	10
	5243.10867	108 x 67mm	1	10
	5243.10876	108 x 76mm	1	12
	5243.13376	133 x 76mm	1	10
	5243.133108	133 x 108mm	1	10
	5243.15976	159 x 79mm	1	5
	5243.159108	159 x 108mm	1	5
	5243.159133	159 x 133mm	1	5
Stop Ends	Code	Size	Pack	Box
	5301.67	67mm	1	50
	5301.76	76mm	1	45
	5301.108	108mm	1	20
	5301.159	159mm	1	4

Large Bronze End Feed Fittings

Cu x Mi Taper Adaptor Bronze	Code	Size	Pack	Box
	4243G.67X2.1/2	67mm x 2 1/2"	1	22
	4243G.76X3	76mm x 3"	1	16
	4243G.108X4	108mm x 4"	1	4
Cu x Fi Straight Bronze	Code	Size	Pack	Box
	4270G.67X2.1/2	67mm x 2 1/2"	1	20
	4270G.76X3	76mm x 3"	1	20
	4270G.108X4	108mm x 4"	1	20

PEX Pipe and Fittings

Introduction & Approvals

The Flowflex PEX pipe plumbing system uses a cross linked polyethylene pipe which has a number of advantages over metal pipes such as Copper or Galvanised Steel. The most important advantages / properties are as follows:

1.	They do not corrode and remain unchanged during their life cycle.
2.	Their inner surface is completely smooth, therefore there are no deposits of salts or other materials as there would be with no other types of pipe, notably Galvanised Steel or Copper, this also reduces pressure loss.
3.	They have negligible electrical conductivity.
4.	They present small thermal conductivity.
5.	They have sound isolation for water velocities up to 1m/sec.
6.	They are completely safe for potable water and foodstuffs, since XPLE is a non toxic material.
7.	They have excellent mechanical and impact strength.
8.	They have been designed for a lifetime of over 50 years, for working temperatures 20°C up to 90°C and working pressures 8 Bar up to 20 Bar.
9.	The cross linked polyethylene pipe for use with both cold and hot water systems has passed full tests of effect on water quality - BS 6920 according to WRAS in Britain.

The Pex Brass Fitting

The Pex fittings used within the Flowflex Pex system are manufactured using CZ121 / 122 Brass Bar and all threads on male and female fittings are a BSP thread. All fittings are tested to the rigorous standards Flowflex employ throughout their manufacturing process and can be identified by the Flowflex name stamped on each fitting.

The protection of cross linked polyethylene pipe used in the Flowflex PEX system is, in most cases, by the use of a corrugated protective pipe or sheath which is flexible and has the following characteristics :-

1.	Red as an indication of hot water.
2.	Blue as an indication of cold water.
3.	The corrugated pipe or sheath allows for good behaviour of expansion and contraction.
4.	Protection from external hurts, damages etc.
5.	Opportunity for easy replacement.
6.	Reduction of thermal losses.

PEX Pipe and Fittings

Introduction & Approvals

Table of Main Characteristics of Pex Pipe

Outer Diameter (mm)	Wall Thickness (mm)	Weight (Kg/m)	Packaging (mtr/roll)	OP Pressure at 20°C (Bar)	OP Pressure at 20°C (Bar)	OP Pressure at 20°C (Bar)	Content (Lt/m)
16	2.00	0.09	100	16	6	6	0.113
16	2.2	0.098	100	20	10	10	0.105

Lifespan Table of the Flowflex Pex Pipe

Temperature (°C)	Lifespan (Years)	Pressure (Bar)	Safety Coef-ficient
20	50	19.5	1.5
60	50	13	1.5
90	50	9.6	1.5
95	50	8.2	1.5

Internal Pressure Creep Tests

Dimension O.D and Wall Thickness	Test Temperature (°C)	Period of Stressing (Hrs)	Test Pressure (Bar)
16 x 2.0	20°C	1	34.2
	95°C	1	13.7
	95°C	1000	12.5
16 X 2.2	20°C	1	38.2
	95°C	1	15.3
	95°C	1000	14

Stress Tests

Test Temperature (°C)	Test Stress (N/mm²)	Period of Stressing (Hrs)	Test Pressure (Bar)
20°C	12	1HR	34.2
95°C	4.8	1HR	13.7
95°C	4.4	1000HR	12.5
110°C	2.8	8000HR	8

PEX Pipe and Fittings

Joining Techniques

Directions for use

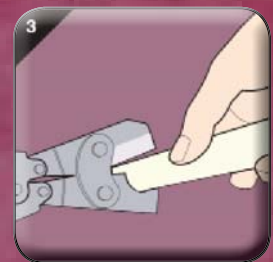
Select the correct size of cross linked polyethylene pipe and brass fittings for the job. Ensure the pipe is cut square using a special cuter to cut the pipe horizontal along its axis. (The use of a hacksaw or knife is forbidden).

The pipe should then be fitted into the corrugated protective pipe or sheath. This ensures protection and also assists linear expansion and contraction.

The pipe should not be heated with a naked flame, in cases where sectional heat is required (i.e. curves) the warming can be achieved by application of hot air to 135°C.

The pipes should then be left to return back to the environment temperature.

- | | |
|----|---|
| 1. | Ensure the tube conforms to the specification. |
| 2. | Select the correct fitting for the size of the tube to be connected. |
| 3. | Ends of the tube for jointing must be cut cleanly across the tube diameter and be free from contamination, surface damage or defects. |
| 4. | Enter the tube through the thrust nut and split ring fully into fittings until positive contact is made with the tube stop. |
| 5. | Make sure the sealing faces of the joint and threads are clean and free from swarf and any contamination. A little oil or grease on the threads of the fittings is useful in reducing friction during tightening. |
| 6. | Hand tighten the thrust nuts until ALL slack in joint is taken up. |
| 7. | Tighten joints to complete watertight seal. |



PEX Pipe and Fittings

Straight Connector		Straight Male Iron Connector		Straight Female Iron Connector	
					
Code	Size	Code	Size	Code	Size
PX901.04	16 x 16 x 2.2	PX902.06	1/2 x 16 x 2.2	PX903.06	1/2 x 16 x 2.2
		PX902.07	1/2 x 20 x 2.0	PX903.15	3/4 x 16 x 2.2
		PX902.15	3/4 x 16 x 2.2		

Equal Elbow		Male Iron Elbow		Female Iron Elbow	
					
Code	Size	Code	Size	Code	Size
PX801.03	16 x 16 x 2.2	PX802.06	1/2 x 16 x 2.2	PX803.06	1/2 x 16 x 2.2
		PX802.07	3/4 x 16 x 2.2		

Equal Tee		Male Iron Tee		Brass Ring	
					
Code	Size	Code	Size	Code	Size
PX701.04	16 x 16 x 16 x 2.2	PX716.06	1/2 x 16 x 2.2	PX165.03	16mm

PEX Pipe and Fittings

Pex Manifold - Two Exits		Pex Manifold - Three Exits	
			
Code	Size	Code	Size
PX602.15	3/4 x 16 x 2.2	PX603.15	3/4 x 16 x 2.2

Pex Manifold - Four Exits		Pex Manifold - Five Exits	
			
Code	Size	Code	Size
PX604.15	3/4 x 16 x 2.2	PX605.15	3/4 x 16 x 2.2

Red Plastic Box c/w Elbow		Blue Plastic Box c/w Elbow	
			
Code	Size	Code	Size
PX105.06	1/2 x 16 x 2.2	PX105.07	1/2 x 16 x 2.2

PEX Pipe and Fittings

Mi x Fi Union Ball Valve - Red Butterfly Handle		Mi x Fi Union Ball Valve - Blue Butterfly Handle	
			
Code	Size	Code	Size
PX8112	3/4"	PX8113	3/4"

Pex Pipe - X Link Poly Pipe - White	
	
Code	Size
PXPP100W.04	16 x 2.2 (100m)



Lamontite

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