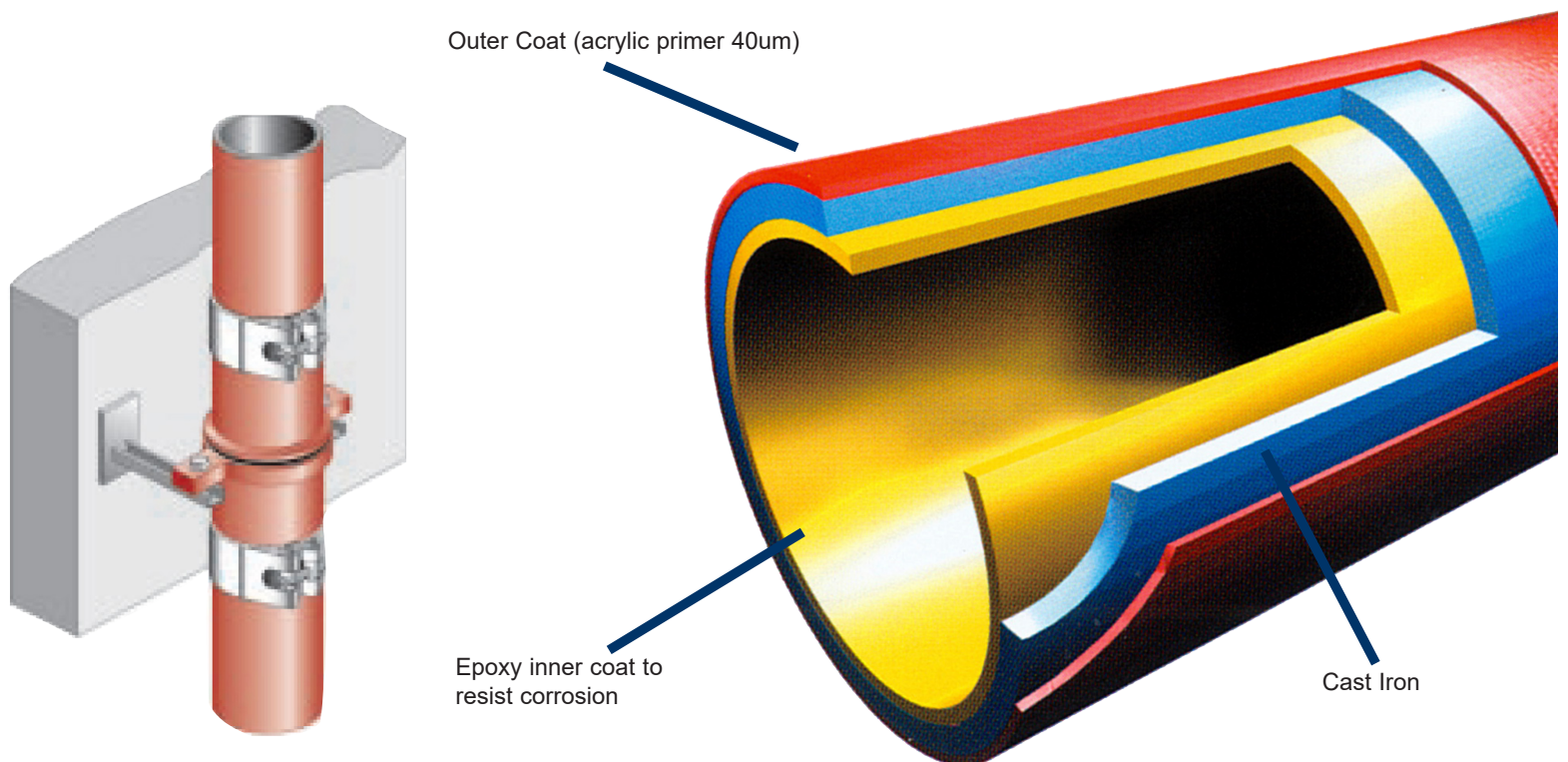


### ENSIGN CAST IRON DRAINAGE SYSTEMS

- Strength** High strength cast iron construction less prone to damage
- Easy Installation** The precisely matched joints and couplings not only guarantee absolute water tightness but also facilitate rapid assembly with standard tools. (unlike HDPE no welding necessary)
- Fire Resistant** Fire collars NOT required. Cast iron is naturally fireproof. Rated 4 hours (PVC and HDPE require fire collars).
- Noise Insulation** High density cast iron means superior noise insulation compared to competing systems.
- Low Maintenance** Combines the strength of cast iron with modern coatings means minimal maintenance during the buildings life.



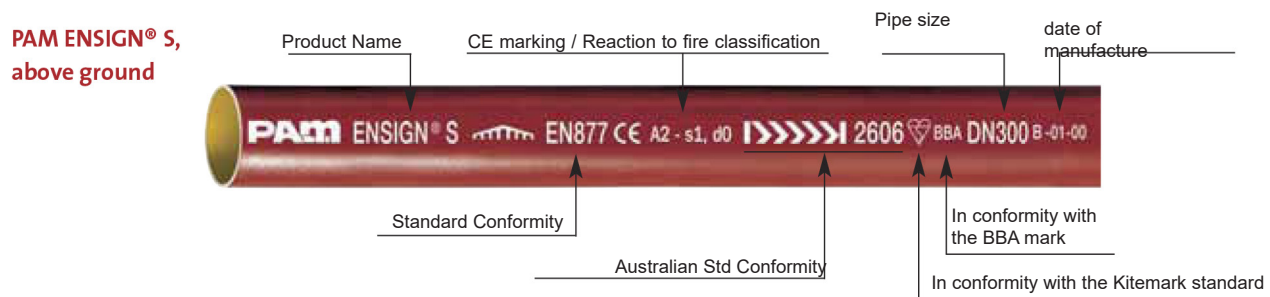
Coefficient of Expansion similar to concrete, therefore expansion joints are not necessary.

## PAM-ENSIGN® S

### Benefits of PAM GLOBAL® S

- Lining of the pipe interior for optimised properties HPS 2000
- Best possible corrosion protection of fittings due to KTL cataphoresis coating (inside and outside).
- Strictly coordinated fitting systems in the very highest quality.
- High durability well beyond the requirements specified in EN 877.
- High abrasion resistance with a smooth surface for excellent flow properties.
- Robust, dimensionally stable and shock-proof.
- Sound insulation, progressive sound abatement acc. to DIN 4109 (and VDI4100).
- Preventative fire protection, PAM GLOBAL® pipes and fittings are noncombustible in keeping with DIN 4102.
- Insensitive to heat and cold, negligible thermal expansion (0.0105 mm/m °C), equalling approx. that of concrete so that bedding in concrete will not give rise to any problems.
- Primer coated in the works, permanent adhesion and attractive appearance due to special external finishing coats by the works (e.g. with bridge structures)

### PRODUCT IDENTIFICATION



According to standard EN 877, pipes, fittings and accessories as well as the couplings or clamping components and the gaskets shall be legibly and indelibly marked and shall bear at least the following information:

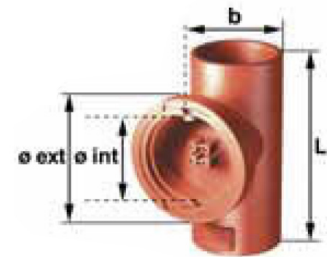
- the manufacturer's name or mark
- the identification of the production site
- the period of manufacturing, coded or not
- the reference to this European standard
- the DN, or DN's where applicable
- the design angle of fittings
- the identification of the accredited third party where applicable

In the case of pipes the above markings shall be applied at least once per metre length.

### PAM-ENSIGN® S

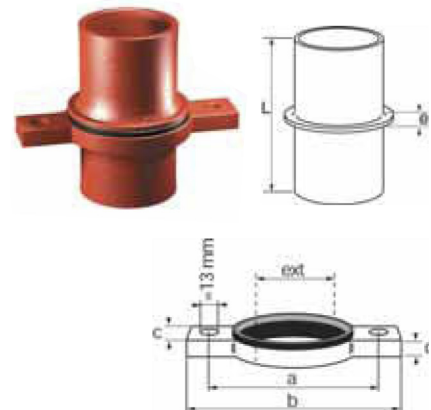
#### SHORT PIPES WITH ACCESS DOOR

DN	Product Code	L	b	Øint	Øext	Weight
50	E156414	160	102	75	108	1.90
70	E155799	205	132	101	134	3.00
75	E156513	205	132	101	134	3.00
100	E156659	250	157	128	160	4.50
125	E156794	280	192	154	189	6.50
150	E156905	320	222	181	224	10.40



#### STACK SUPPORT PIPES

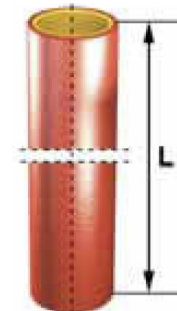
DN	Product Code	L	a	b	c	d	e	Øext	Weight kg
50	E156413	220	150	195	30	17	8	108	2.10
70	E177742	200	170	215	30	19	8	128	2.00
75	E156512	220	175	218	20	19	8	133	3.00
100	E156657	220	214	259	32	20	8	162	4.50
125	E156793	220	228	275	32	20	8	187	5.50
150	E156094	220	255	300	32	22	8	222	7.20
200	E157014	220	310	362	36	22	8	278	10.00
250	E157097	300	394	444	40	25	8	354	18.50
300	E157160	300	447	498	40	30	8	406	30.75



#### PIPE - DOUBLE SPIGOT

L=3000mm			
DN	DE*	Product Code	Weight
40	48	E156342	8.90
50	58	E156363	13.00
70	78	E156455	19.00
75	83	E156550	18.30
100	110	E156563	25.50
125	135	E156736	35.50
150	160	E156827	43.00
200	210	E156951	69.30
250	274	E157049	99.80
300	326	E157114	129.70

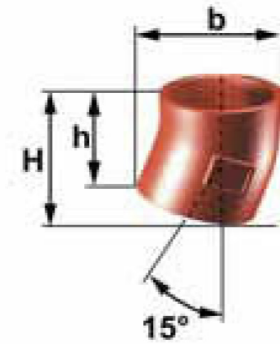
\* External Diameter



**PAM-ENSIGN® S**

**15° BENDS**

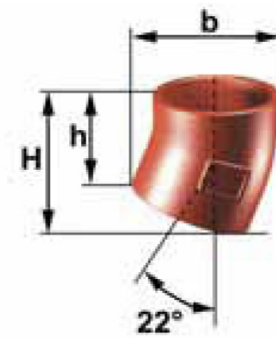
DN	Product code	b	H	h	Weight
50	E155752	66	80	66	0.40
70	E155781	88	98	78	0.60
75	E176702	93	99	78	0.68
100	E155816	121	112	83	1.00
125	E155870	148	134	99	1.70
150	E155903	173	148	108	2.50
200	E155932	227	184	129	4.60



**22° BENDS**

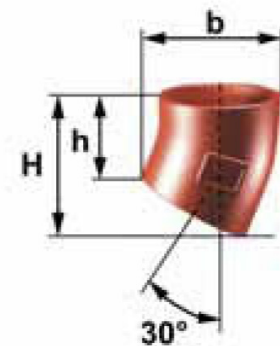
DN	Product code	b	H	h	Weight
50	E156388	70	88	66	0.45
75	E156480	97	105	74	0.80
100	E156598	126	125	84	1.30
125	E156761	152	143	92	1.85
150	E156855	179	162	102	2.60
200	E156974	233	200	122	4.40
250	E157071	300	240	138	9.50
300	E157136	356	279	157	15.30

On a quotational basis, obsolete pattern



**30° BENDS**

DN	Product code	b	H	h	Weight
50	E155753	76	97	69	0.50
70	E155782	97	112	73	0.70
75	E176703	102	114	72,5	0.79
100	E155817	132	136	81	1.30
125	E155871	160	164	96	2.00
150	E155904	189	188	108	3.00
200	E155933	243	229	124	5.40
250	E155948	309	270	133	9.70
300	E155960	367	322	159	15.50

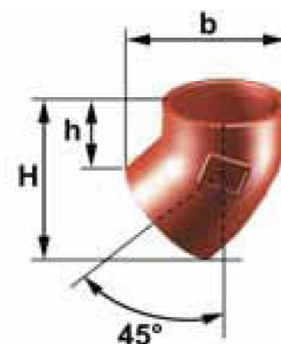


### PAM-ENSIGN® S

#### 45° BENDS

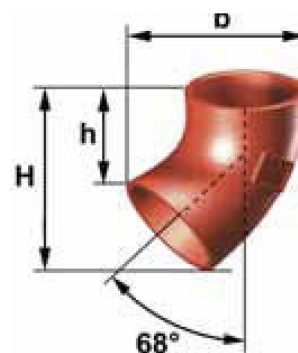
DN	Product code	b	H	h	Weight
40	E156348	72	94	60	0.35
50	E156384	84	106	65	0.55
70	E155780	108	129	74	0.90
75	E156476	112	132	73	0.85
100	E156593	142	158	80	1.57
125	E156756	171	184	89	2.12
150	E156850	199	210	97	3.19
200	E156970	256	262	113	5.25
250	E157069	324	319	125	10.00
300	E157134	387	380	149	18.82
400	E157175	540	573	270	34.34
500	E157190	678	730	350	64.00
600	E175540	788	821	370	93.00

On a quotational basis, obsolete pattern



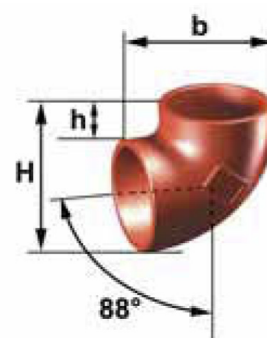
#### 68° BENDS

DN	Product code	b	H	h	Weight
50	E156382	104	123	70	0.75
70	E155779	123	139	67	1.10
75	E156474	131	149	72	1.05
100	E156591	159	176	74	1.80
125	E156754	188	205	80	3.00
150	E156847	219	237	89	4.10
200	E156968	277	295	99	7.78
250	E157067	343	358	104	14.65
300	E157132	406	423	121	20.00



#### 88° BENDS

DN	Product Code	b	H	h	Weight
40	E156346	90	91	43	0.50
50	E156379	104	107	49	0.80
70	E155778	130	132	54	1.40
75	E156471	138	140	57	1.20
100	E156588	166	169	59	2.22
125	E156752	194	197	62	2.85
150	E156844	227	230	70	4.34
200	E156966	267	291	81	8.10
250	E157065	360	363	89	13.50
300	E157130	427	431	105	26.67

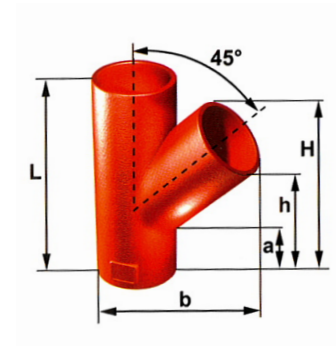


**PAM-ENSIGN® S**

**BRANCHES**

**45° SINGLE BRANCHES**

DN	dn	Product Code	L	b	H	h	a	Weight
40	40	E156356	160	121	143	109	33	0.75
50	40	E156392	160	126	143	109	38	1.05
	50	E156435	185	144	165	124	36	1.15
70	50	E155789	190	124	166	125	35	1.60
	70	E155806	215	179	195	140	35	2.30
75	50	E156490	180	156	161	120	43	1.80
	75	E156544	215	179	198	140	40	2.35
100	50	E155618	200	191	172	131	47	2.45
	70	E155831	235	213	208	153	48	3.50
	75	E156625	220	204	199	140	44	3.05
	100	E156701	275	238	253	175	45	3.95
125	50	E156769	205	218	170	130	44	3.24
	70	E155879	240	236	208	153	49	4.30
	75	E156771	240	237	215	156	51	4.00
	100	E156775	280	261	254	177	47	5.15
	125	E156813	320	284	296	201	49	5.80
150	70	E155910	245	259	208	154	52	5.60
	75	E176733	255	265	220	161	54	5.10
	100	E156879	295	287	262	185	54	6.10
	125	E156883	325	307	298	202	52	7.30
	150	E156931	355	323	333	219	53	8.70
200	70	E155934	255	302	212	157	62	8.10
	100	E156982	305	330	266	188	63	8.80
	125	E156984	335	350	300	204	62	10.00
	150	E156989	375	373	343	230	63	11.10
	200	E157030	455	418	428	280	68	15.80

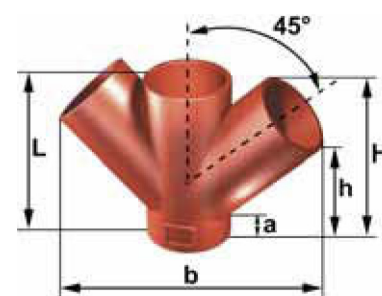




### PAM-ENSIGN® S

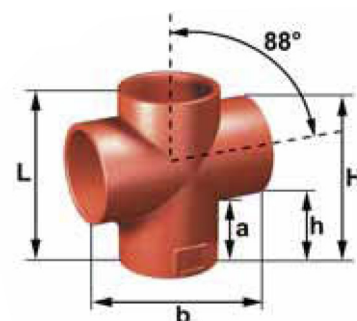
#### 45° DOUBLE BRANCHES

DN	dn	Product code	L	b	H	h	a	Weight
100	100	E156709	260	346	243	165	46	4.5
125	125	E156817	305	421	285	190	45	7.3
150	150	E156936	355	488	344	277	55	11.7



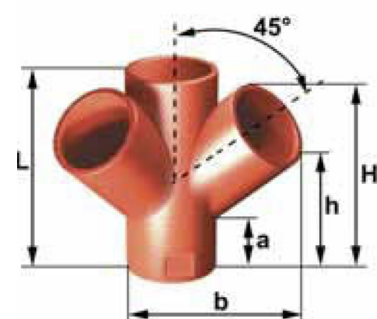
#### 88° DOUBLE BRANCHES

DN	dn	Product code	L	b	H	h	a	Weight
100	50	E1555825	170	212	127	69	45	2.20



#### 45° CORNER BRANCH

DN	dn	Product code	L	b	H	h	a	Weight
100	100	E156716	260	227	242	166	46	5.20

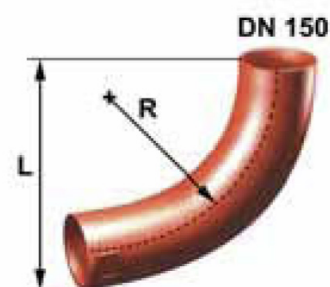


### LONG FITTINGS

#### 88° LONG RADIUS BENDS

DN	Product code	L	R	Weight
100	E156606	324	230	4.23
150	E156860	349	210	8.00

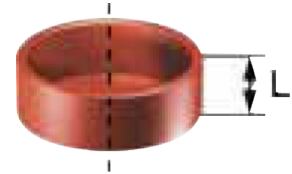
At the base of soil and rainwater stacks, we recommend the use of long radius bends in order to enhance hydraulics and avoid deposits or blocking up.



**PAM-ENSIGN® S**

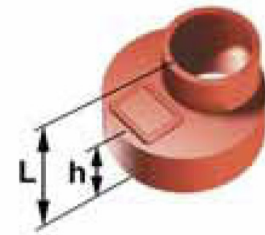
**CONNECTORS - BLANK ENDS**

DN	Product code	L	Weight
50	E156376	30	0.25
70	E155776	35	0.40
75	E156466	35	0.45
100	E156581	40	0.80
125	E156749	45	1.20
150	E156841	50	1.70
200	E156963	60	3.20
250	E157062	70	5.90
300	E157127	80	9.40



**TAPERED PIPES • REDUCERS**

DN	dn	Product code	L	h	Weight
50	40	E156354	75	40	0.30
70	50	E155763	75	42	0.50
75	50	E156424	80	47	0.70
100	50	E156426	80	45	1.00
	70	E155801	85	45	0.90
	75	E156526	90	45	1.10
125	50	E156428	85	50	1.50
	70	E155802	90	50	1.50
	75	E156528	95	52	1.30
150	100	E156684	95	50	1.60
	50	E156430	95	55	1.90
	70	E155803	100	55	2.10
175	75	E156530	100	57	1.70
	100	E156686	105	60	2.30
	125	E156805	110	60	1.95
200	75	E156532	115	72	3.35
	100	E156688	115	70	3.65
	125	E156807	120	70	3.45
	150	E156919	125	65	3.85
250	75	E156534	125	82	5.95
	100	E156690	125	82	5.70
	150	E156921	135	82	5.90
	200	E157020	145	80	6.10
300	75	E156536	140	97	9.90
	100	E156692	140	95	9.10
	150	E156923	150	97	9.70
	200	E157022	160	95	9.70
	250	E157100	170	95	10.10
400	300	E157163	200	100	19.70



On a quotational basis, obsolete pattern

On a quotational basis, obsolete pattern

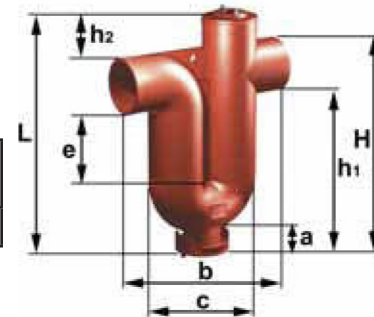


**PAM-ENSIGN® S**

**TRAPS AND VENTILATION**

**BRANCH TRAPS FOR RAINWATER SYSTEMS**

DN	Product code	L	b	h1	h2	a	c	e	H	Access(*)	Weight
50	E156420	240	190	143	39	33	112	60	201	EP 50	2.90

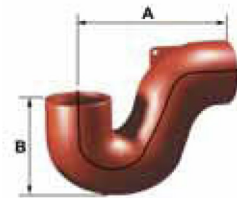


DN 50 to 150 trap

**PAM ENSIGN® S TRAPS**

Traps – Plain – EF034

DN	Product code	A	B	Weight
100	E156666	255	160	1.80

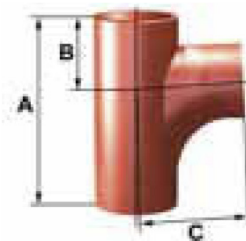


**SPECIAL FITTINGS**

**BRANCHES FOR SINGLE DOWNPIPE 2 TO 3 INLETS • COMBINED NETWORKS**

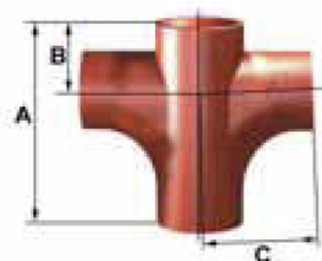
**PAM ENSIGN®S 88° SINGLE BRANCHES • RADIUS CURVE  
88° SINGLE BRANCH – RADIUS CURVE – EF06R**

DN	Product code	A	B	C	Weight
70x70	E156539	210	80	130	2.20
100x50	E156611	204	90	120	2.40
100x70	E156612	221	90	142	2.70
100x100	E156696	270	102	150	3.50
150x100	E156869	300	117	202	7.60
150x150	E156926	400	140	260	12.50
200x150	E156985	428	157	283	13.00
200x200	E157025	478	182	293	21.00



**PAM ENSIGN®S 88° DOUBLE BRANCHES • RADIUS CURVE  
88° DOUBLE BRANCH – RADIUS CURVE – EF010R**

DN	Product code	A	B	C	Weight
100x100	E157643	270	102	150	4.20



**PAM-ENSIGN® S**

**COUPLINGS**

PAM RAPID NG couplings • New PAM design, unbeatable performance  
The PAM Rapid NG coupling, single bolt, allows fast and reliable installation.  
SAINT GOBAIN PAM new design ensures optimized water-tightness and pressure resistance and better than ever corrosion resistance.

**PAM RAPID-S NG COUPLINGS**

DN	Product code W2 - S	D	H	L	Weight
50	E210424	70	80	42	0.10
65 (75 SMA)	E 210824	83	94	42	0.12
70	E210425	85	98	42	0.12
75/ 80	E210426	90	103	42	0.12
100	E210427	125	139	48	0.18
125	E210428	147	161	56	0.28
150	E210429	172	187	56	0.32
200	E210430	223	240	70	0.60
250	E228759	290	315	95	1.10
300	E228771	350	375	95	1.25



Standard version W2  
Strap, clamps:  
1.4510 /11 (AISI 430Ti / 439)

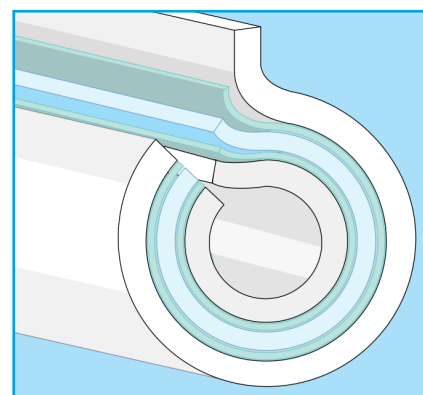
Code	Description	Size	PN Rating	Unit
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### SPEEDFIT PEX PIPE

Speedfit Barrier Pipe is manufactured to BS 7291 Parts 1, 2 and 3 Class S and is Kitemarked.

Pipe markings are spaced to aid the making of a good connection when using a Superseal Pipe Insert. It is made up of 5 layers, the centre of which is a blue coloured oxygen barrier which prevents the ingress of air into the system, thereby reducing the effect of corrosion on metal components.

Because of its low thermal conductivity, when carrying hot water, Speedfit Pipe is cooler and therefore safer to touch. Relatively low heat loss through radiation means that a system retains its heat longer and delivers hot water more quickly and with less wastage than a metal system.



Application	Usual working temperature, °C	Maximum working temperature, °C	Maximum working pressure, bar
Cold Water (indirect and direct mains) (indirect and direct mains)	20	20	12
Central Heating	82	105, short term malfunction at 114	3
Hot Water (including unvented cylinders) Do <b>NOT USE</b> Speedfit fittings for gas, fuel, oil or compressed air applications	65	95	6

B2 DURABILITY  
F2 HAZARDOUS BUILDING MATERIALS  
G12 WATER SUPPLIES

Certificate Number: 96/002A

### PEX PIPE COILS

SP1050	10mm x 50 Metres
SP10100	10 x 100 Metres
SP1525	15mm x 25 Metres
SP1550	15mm x 50 Metres
SP15100	15mm x 100 Metres
SP2225	22mm x 25 Metres
SP2250	22mm x 50 Metres



### PEX PIPE BUNDLE

SP152B	15mm x 2 Metres (20 lengths)
SP155B	15mm x 5 Metres (20 lengths)
SP225B	22mm x 5 Metres (20 lengths)
SP222B	22mm x 2 Metres (20 lengths)
SP285B	28mm x 5 Metres (10 lengths)



### PIPE FOR GREY WATER FOR NON POTABLE WATER

PE15100V

15mm x 100 Metre Violet coil



Code	Description	Size	PN Rating	Unit
------	-------------	------	-----------	------

*Speedfit Fittings have a unique grip then seal construction made up of a collet with stainless steel teeth to grip the pipe and an 'O' ring to provide a permanent leak proof seal.*

*Speedfit fittings suitable for central heating systems can withstand temperatures up to 114°C intermittently for short periods. Speedfit fittings shown as not suitable for central heating systems are used primarily on the domestic hot and cold water system accepting temperatures of up to 65°C.*

Application	Usual working temperature, °C	Maximum working temperature, °C	Maximum working pressure, bar
Cold Water (indirect and direct mains) (indirect and direct mains)	20	20	12
Central Heating	82	105, short term malfunction at 114	3
Hot Water (including unvented cylinders)	65	95	6

Speedfit fittings may not be used for gas, fuel, oil or compressed air applications

**Please note: Exposure to Ultra-Violet radiation will necessitate painting in water-based paint or lagging of the pipework and fittings.**

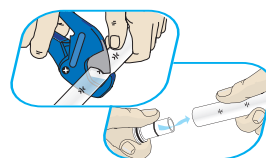
*Speedfit fittings and pex barrier pipe offer a complete system of plastic plumbing. They are manufactured to comply with bs7291 parts 1 and 3 class s and accredited by the department of building and housing new zealand to meet the requirements of the g 12 building code for mains fed and indirect cold water systems.*

**JG John Guest®**  
**Push-fit Fittings and Pipe**  
No tools required. Quick and easy to install.

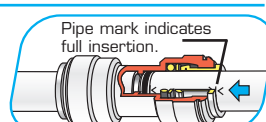
Keep product clean and in a bag until ready for use.

**Making a Connection**

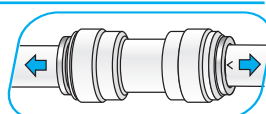
**1.** Cut the pipe square along an insertion mark. Ensure the outside diameter is free of score marks. Insert Pipe Insert into pipe with a twisting motion.



**2.** Insert pipe into fitting up to pipe stop. If correctly inserted an insertion mark will be level with the collet head. A good connection has been made.

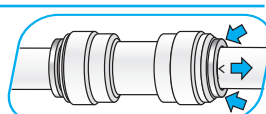


**3.** Pull pipe to test it is secure. Test system to ensure water tight.



**To Disconnect**

Push collet (gripper) against fitting and pull pipe easily out of fitting.



For water usage only as specified on front of bag.

**NOT SUITABLE FOR Gas, Fuel Oil and Compressed Air applications.**

**NOT SUITABLE FOR** stainless steel or chromium plated pipe. **DO NOT** insert fingers into fittings or allow contact with oil based jointing compounds, cellulose based paints, paint thinners, paint strippers, solder flux, acid descalents, chemicals or household cleaners. **USE ONLY** water based paints. Ensure earth continuity is not impaired when using plastic fittings or pipe. Minimum 1 metre run of copper pipe must be installed between the boiler and the Speedfit system.

See Technical Checklist for full details or [www.johnguest.com](http://www.johnguest.com) Z1702/??/12/08

Made in UK by John Guest

Code	Description	Size	PN Rating	Unit
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**EQUAL JOINER**

SPJ10		10mm		
SPJ15		15mm		
SPJ22		22mm		
SPJ28		28mm		



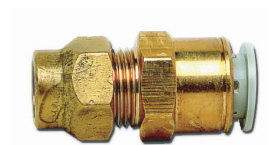
**STRAIGHT CONNECTOR**

SPSC15		15mm x 1/2" Copper		
SPSC22		22mm x 3/4" Copper		



**COPPER CONNECTOR**

SPC515		15mm		
SPC522		22mm		



**REDUCING CONNECTOR**

SPRC1510		15 x 10mm		
SPRC2215		22 x 15mm		



**STRAIGHT REDUCER**

SPR1510		15 x 10mm		
SPR2215		22 x 15mm		
SPR2822		28 x 22mm		



**EQUAL ELBOW**

SPE10		10mm		
SPE15		15mm		
SPE22		22mm		
SPE28		28mm		



**STEM ELBOW**

SPSE10		10mm		
SPSE15		15mm		
SPSE22		22mm		



**EQUAL TEE**

SPT10		10mm		
SPT15		15mm		
SPT22		22mm		
SPT28		28mm		



**Code**                      **Description**                      **Size**                      **PN Rating**                      **Unit**

**REDUCING TEE**

SPRT151010		15 x 10 x 10mm	(End Branch End)	
SPRT151015		15 x 10 x 15mm		
SPRT152215		15 x 22 x 15mm		
SPRT221022		22 x 10 x 22mm		
SPRT221515		22 x 15 x 15mm		
SPRT221522		22 x 15 x 22mm		
SPRT222215		22 x 22 x 15mm		
SPRT282222		28 x 22 x 22mm		
SPRT282228		28 x 22 x 28mm		
SPRT282822		28 x 28 x 22mm		



**STEM TEE**

SPST221022		22 x 10 x 22mm		
SPST221522		22 x 15 x 22mm		



**JOINER CONVERSION KIT**

Complete with one stainless steel insert and one pipe insert

SPJC15KIT	Kit	15mm		
SPJC15	Joiner only	15mm		



**CAP END**

SPC10		10mm		
SPC15		15mm		
SPC22		22mm		



**PIPE INSERT**

SPI10		10mm		
SPI15		15mm		
SPIS15	Stainless Steel	15mm		
SPI22		22mm		
SPI28		28mm		



**SUPERSEAL PIPE INSERT (COMPLETE WITH O'RING)**

SPORI10		10mm		
SPORI15		15mm		
SPORI22		22mm		
SPORI28		28mm		



**PLUG END**

SPP10		10mm		
SPP15		15mm		
SPP22		22mm		
SPP28		28mm		





Code	Description	Size	PN Rating	Unit
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### MANIFOLD 4 PORT RAIL

SPM2210		22 x 10mm		
SPM2215		22 x 15mm		



### MANIFOLD 4 WAY ROCKET

SPM2210RK		22 x 10mm		
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### STOP VALVE

SPSV15	Stop Valve	15mm		
SPSV22	Stop Valve	22mm		
SPASV10	Angle stop valve	1/2" x 1/2" x 1/4"		
SPASV3	Angle stop valve	15mm x 15mm x 1/4"		
SPAPT15	Appliance Tap Tee	15mm		
SPES15	Emergency stop valve	15mm		



### DISHWASHER VALVE

SPDV1520		15 x 20mm		
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### SERVICE VALVE

SPSRV15B	Brass CP (2 per pack) Complete with tap connector	15mm		
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SPSRV15C	Brass CP (2 per pack)	15mm		
SPSRV22C	Brass CP (1 per pack)	22mm		



SPSRV15	Service Valve (max 65°C )	15mm		
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### DUAL CHECK VALVE

SPDCV15		15mm		
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### BRASS STOP TAP

SPSV15BSC		15mm		
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**Code**                      **Description**                      **Size**                      **PN Rating**                      **Unit**

**BENT TAP CONNECTOR**

SPBTC15  
SPBTC15

10mm  
15mm



**TAP CONNECTOR**

SPTC15  
SPTC1520  
SPTC22

15mm  
15 x 20mm  
22 x 20mm



**FEMALE COUPLERS**

SPF10                      Plastic  
SPF15                      Plastic  
SPFB15                      Brass  
SPF22                      Plastic

10mm  
15mm  
15mm  
22mm



**MALE COUPLER: BRASS**

SPBM10  
SPBM15  
SPBM22  
SPBM28

10mm  
15mm  
22mm  
28mm



**MALE ADAPTOR**

SPMA15  
SPMA22  
SPMA28

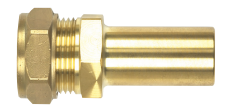
15mm  
22mm  
28mm



**MALE IRISH ADAPTOR**

SPMIA15                      copper pipe fits  
SPMIA20                      copper pipe fits

15mm  
20mm

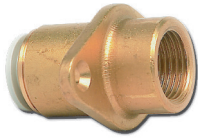









**FEMALE BRASS STEM ADAPTOR**

SPFSA22

22mm



Code	Description	Size	PN Rating	Unit
<b>HOSE PLATE: BRASS</b>				
SPHPB15		15mm		
<b>MALE WINGBACK ELBOW</b>				
SPMWE15		15mm		
<b>FEMALE WINGBACK ELBOW</b>				
SPWE15		15mm		
SPWE22		22mm		
<b>FLANGE/TANK CONNECTOR</b>				
SPFC15		15mm		
SPFC22		22mm		
<b>FLEXIBLE HOSES</b>				
<b>FEMALE NUT TO PEX PIPE</b>				
FLX15		15 x 300mm		
FLX18		15 x 500mm		
FLX23		22 x 500mm		
FLX24	c/w service valve	15 x 300mm		
FLX31	c/w service valve	15 x 500mm		
FLX34		10 x 300mm		
<b>COLD FORM BEND</b>				
SPCFB10		10mm		
SPCFB15		15mm		
SPCFB22		22mm		
<b>COLLET COVER</b>				
SPCW15	White	15mm		
SPCB15	Blue	15mm		
SPCR15	Red	15mm		
SPCW22	White	22mm		
SPCB22	Blue	22mm		
SPCR22	Red	22mm		
<b>CLIP SPACER</b>				
SPCSB	Black			
SPCSW	White			

Code	Description	Size	PN Rating	Unit
<b>LOCKING CLIP - RED</b>				
SPCR15N		15mm		
SPCR22N		22mm		
<b>LOCKING CLIP - BLUE</b>				
SPCB15N		15mm		
SPCB22N		22mm		
<b>LOCKING CLIP</b>				
SPLC10	Grey	10mm		
SPLC15		15mm		
SPLC22		22mm		
SPLC15G		15mm		
<b>BENDING SPRINGS</b>				
SPBS10		10mm		
SPBS15		15mm		
SPBS22		22mm		
<b>PIPE CUTTERS</b>				
SPPC	Cuts Tube/Hose up to 32mm			
JGTS	Cuts Tube/Hose up to 28mm - Blue			
JGTSR	Cuts Tube/Hose up to 42mm - Red			
<b>PIPE CLIPS</b>				
SPPC15B	Black	15mm		
SPPC15W	White	15mm		
SPPC22B	Black	22mm		
SPPC22W	White	22mm		
SPPC28B	Black	28mm		
SPPC28W	White	28mm		
<b>PIPE CLIPPETS</b>				
SPCL10		10mm		
SPCL15		15mm		
SPCL15W	Marine Use	15mm		
SPCL22		22mm		
SPC22W	Marine Use	22mm		
SPCL28		28mm		

Code	Description	Size	Box Qty
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### TECTITE - METAL PUSH FIT SYSTEM

The original Tectite fitting and proven in the field for over 15 years, Tectite can be used for applications where a demountable fitting is required.

- 15 Bar @ 23° Pex Pipe
- 13.6 Bar @ 95° Pex Pipe
- Temperature 0.5° - 95°C
- Demountable
- Available in sizes 16mm to 20mm
- Manufactured from DZR brass
- To be used with PEX pipe (with liners).
- Suitable for use on hot and cold water services
- WRAS approved
- AS2537


#### STRAIGHT COUPLING

TTC1616P	16mm x 16mm	10	
TTC2020P	20mm x 20mm	5	


#### REDUCING COUPLING

TTTC2016P	20mm x 16mm	10	
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#### STRAIGHT FEMALE CONNECTOR

TTFC1615P	16mm x 15mm BSP	10	
TTFC1620P	16mm x 20mm BSP	10	
TTFC2020P	20mm x 20mm BSP	5	

#### STRAIGHT MALE CONNECTOR

TTMC1615P	16mm x 15mm BSP	10	
TTMC1620P	16mm x 20mm BSP	10	
TTMC2015P	20mm x 15mm BSP	10	
TTMC2020P	20mm x 20mm BSP	10	

#### TAP CONNECTOR STRAIGHT

TTTC15P	16mm x 15mm BSP	10	
TTTC20P	20mm x 20mm BSP	5	







#### ELBOW

TTE1616P	16mm	10	
TTE2020P	20mm	5	

Code	Description	Size	Box Qty
<b>MALE ELBOW</b> TTME1615P		16mm x 15mm BSP	10
<b>FEMALE ELBOW</b> TTFE1615P		16mm x 15mm BSP	10
<b>LARGE BACK PLATE MALE ELBOW</b> TTMWE1615-75P TTMWE1615-100P TTMWE1615-185P TTMWE2015-100P TTMWE2015-200P TTMWE2020-200P		16mm x 15mm BSP - 75mm 16mm x 15mm BSP - 100mm 16mm x 15mm BSP - 185mm 20mm x 15mm BSP - 100mm 20mm x 15mm BSP - 200mm 20mm x 20mm BSP - 200mm	1 1 1 1 1 1
<b>LARGE TOP PLATE MALE ELBOW</b> TTMTE1615-100P		16mm x 15mm BSP - 100mm	1
<b>BACKPLATE FEMALE ELBOW</b> TTFWE1615P TTFWE2020P		16mm x 15mm BSP 20mm x 20mm BSP	5 5
<b>EQUAL TEE</b> TTET1616P TTET2020P		16mm 20mm	5 5
<b>FEMALE BRANCH TEE</b> TTFT1615P		16mm x 16mm x 15mm BSP	5
<b>REDUCED TEE</b> TTRT201620P TTRT201616P TTRT202016P		20mm x 16mm x 20mm 20mm x 16mm x 16mm 20mm x 20mm x 16mm	5 5 5
<b>STOP END</b> TTSE16P TTSE20P		16mm 20mm	10 10
<b>BALL VALVE</b> TTBV1616P TTBV2020P		16mm x 16mm 20mm x 20mm	1 1





Code	Description	Size	Box Qty	
<b>PEX PIPE</b>				
<ul style="list-style-type: none"> <li>• Pex A, PN 20 rated</li> <li>• Highest flexibility pipe, minimum 82% cross-linking</li> <li>• Durable at high temperatures High tolerance to wear and corrosion</li> <li>• Certified as compliant to relevant AS2492-1994 by Approval Mark International</li> <li>• Watermark WM 022657</li> <li>•</li> </ul>				
<b>BLACK PIPE PEX A</b>				
PEX16B5	PN20 bundle	16mm x 5m	10	
PEX20B5	PN20 bundle	20mm x 5m	10	
PEX16B50	PN20 reel	16mm x 50m	1	
PEX20B50	PN20 reel	20mm x 50m	1	
<b>RED PIPE PEX A</b>				
PEX16R5	PN20 bundle	16mm x 5m	10	
PEX20R5	PN20 bundle	20mm x 5m	10	
PEX16R50	PN20 reel	16mm x 50m	1	
PEX20R50	PN20 reel	20mm x 50m	1	
<b>DEMOUNT CLIP</b>				
TTDC16P		16mm	5	
TTDC20P		20mm	5	
<b>FORM BEND</b>				
PFB16		16mm	1	
PFB20		20mm	1	
<b>PIPE CLIP PEX BLACK</b>				
PCB1620M	Masonry	16/20mm	1	
PCB1620MTS	M-Tek Screw	16/20mm	1	
PCB1620TN	Twist Nail	16/20mm	1	
<b>PIPE CUTTER</b>				
JGTSR		upto 42mm	1	

Code	Description	Size	Box Qty
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**HYDROPRESS**  
**316 STAINLESS STEEL PIPE FITTINGS FOR QUICK AND EASY INSTALLATION**

**COUPLING**

Socket-Socket		D1	
P0001928		15	
P0001929		22	
P0001930		28	
P0001931		35	
P0001932		42	
P0001933		54	
P0001934		76.1	
P0002342		88.9	
P0001935		108	
P0002343		168.3	

**SLIP COUPLING**

Socket-Socket		D1	
P0001936		15	
P0001937		22	
P0001938		28	
P0001939		35	
P0001940		42	
P0002054		54	
P0002055		76.1	
P0002344		88.9	
P0002056		108	

**90 BEND**

Socket - Socket (Female/Female)		D1	
P0001607		15	
P0001608		22	
P0001609		28	
P0001633		35	
P0001634		42	
P0001635		54	
P0001636		76.1	
P0002345		88.9	
P0001637		108	
P0002346		168.3	

Code	Description	Size	Box Qty
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**90 BEND**

Tube - Tube End (Male)

	D1	D2
P0001613	15	15
P0001614	22	22
P0001615	28	28
P0002095	35	35
P0002096	42	42
P0002097	54	54

**45 BEND**

Socket - Socket (Female/Female)

	D1
P0001616	15
P0001617	22
P0001618	28
P0002074	35
P0002075	42
P0002076	54
P0002077	76.1
P0002347	88.9
P0069356	108
P0002348	168.3

**45 BEND**

Socket - Tube End (Male/Female)

The length of M-F Bends cannot be cut shorter.

	D1	D2
P0001619	15	15
P0001620	22	22
P0001621	28	28
P0002078	35	35
P0002079	42	42
P0002080	54	54
P0002081	76.1	76.1
P0002349	88.9	88.9
P0002350	108	108
P0002351	168.3	168.3

Code	Description	Size	Box Qty
<b>FI 90 BEND</b>			
Socket - FI BSP			
		D1      D2	
P0002138		15      1/2" BSP	
P0002139		22      3/4" BSP	
P0002140		28      1" BSP	
P0002141		35      1.1/4" BSP	
<b>MI 90 BEND</b>			
Socket - MI BSP			
		D1      MI	
P0002142		15      1/2" BSP	
P0002143		22      3/4" BSP	
P0002144		28      1" BSP	
P0002145		35      1.1/4" BSP	
P0002146		42      1.1/2" BSP	
P0002352		54      2"	
<b>FI 90 BEND WALL FIX</b>			
Socket - FI BSP			
With no wall plate offset:			
		D1      FI	
P0002130		15      1/2" BSP	
P0002131		22      3/4" BSP	
<b>90 BEND</b>			
Socket - Tube End (Male/Female)			
The length of M-F Bends cannot be cut shorter.			
		D1      X1      X2      Y1	
P0001610		15      48      28      67	
P0001611		22      61      40      74	
P0001612		28      72      49      82	
P0002088		35      74      48      85	
P0002089		42      86      56      97	
P0002090		54      105      72      122	
P0002091		76.1      177      124      195	
P0002092		88.9      181      123      202	
P0002093		108      214      140      240	
P0002094		168.3      386      268      404	

Code	Description	Size	Box Qty
<b>MI ADAPTOR</b>			
Socket - MI Thread			
Product No		D1	MI
P0001817		15	1/2" BSP
P0001824		15	3/4" BSP
P0001825		22	1/2" BSP
P0001818		22	3/4" BSP
P0001826		22	1" BSP
P0001903		28	3/4" BSP
P0001819		28	1" BSP
P0001829		28	1 1/4" BSP
P0001904		35	1" BSP
P0001820		35	1.1/4" BSP
P0001905		35	1.1/2" BSP
P0001906		42	1.1/4" BSP
P0001821		42	1.1/2" BSP
P0001907		54	1.1/2" BSP
P0001822		54	2" BSP
P0069354		76.1	2.1/2" BSP
P0001827		88.9	3" BSP
P0001828		108	4"BSP

**FI ADAPTOR**  
Socket - FI Thread

		D1	MI
P0001817		15	1/2" BSP
P0001824		15	3/4" BSP
P0001825		22	1/2" BSP
P0001818		22	3/4" BSP
P0001826		22	1" BSP
P0001903		28	3/4" BSP
P0001819		28	1" BSP
P0001829		28	1 1/4" BSP
P0001904		35	1" BSP
P0001820		35	1.1/4" BSP
P0001905		35	1.1/2" BSP
P0001906		42	1.1/4" BSP
P0001821		42	1.1/2" BSP
P0001907		54	1.1/2" BSP
P0001822		54	2" BSP
P0069354		76.1	2.1/2" BSP
P0001827		88.9	3" BSP
P0001828		108	4"BSP

Code	Description	Size	Box Qty
<b>FI ADAPTOR</b>			
Socket - FI Thread			
		D1	FI
P0001908		15	1/2" BSP
P0001920		15	3/4" BSP
P0001909		22	1/2" BSP
P0001910		22	3/4" BSP
P0001921		22	1" BSP
P0001911		28	1/2" BSP
P0001916		28	3/4" BSP
P0001912		28	1" BSP
P0001922		28	1.1/4" BSP
P0001917		35	1" BSP
P0001913		35	1.1/4" BSP
P0002385		35	1 1/2" BSP
P0001918		42	1 1/4" BSP
P0001914		42	1.1/2" BSP
P0001919		54	1.1/2" BSP
P0001915		54	2" BSP
<b>ADAPTOR FLANGE</b>			
Socket - Flange			
		D1	FL
P0002134		28	Table D
P0002391		35	Table D
P0002135		42	Table D
P0002136		54	Table D
P0002137		76.1	Table D
P0002392		88.9	Table D
P0008735		108	Table D
P0002393		108	Table E
P0002394		168.3	Table D
P0002395		168.3	Table E
<b>MI ADAPTOR</b>			
Tube End - MI Thread			
Product No		D1	MI
P0001923		15	1/2" BSP
P0069352		22	1/2" BSP
P0001924		22	3/4" BSP
P0069362		28	3/4"
P0001925		28	1" BSP
P0001926		35	1 1/4" BSP
P0001927		42	1 1/2" BSP
P0069353		54	2" BSP



Code	Description	Size	Box Qty
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**FI CONNECTOR**

Tube End - FI Thread Tube End - FI Thread

		M	BSP
P0001950		15	1/2"BSP
P0001951		22	1/2"BSP
P0001952		22	3/4" BSP

**MI UNION**

Socket - MI BSP

Item not suitable for steam or gas.

		D1	FI
P0002155		15	1/2" BSP
P0002156		15	3/4" BSP
P0002157		22	1/2" BSP
P0002158		22	3/4" BSP
P0002159		22	1" BSP
P0002160		28	1" BSP
P0002161		35	1 1/4" BSP
P0002162		42	1.1/2" BSP
P0002163		54	2" BSP

**ROLL GROOVE ADAPTOR**

M-BSP

P0002420		54	
P0002421		76.1	
P0002422		108	

**FI UNION**

Socket - FI BSP

Union Gaskets

Depending on the media, both seals should be changed to a different rubber material to suit the application.

Unions are not approved to be used for gas or steam applications.

Product No		D1	FI
P0002147		15	1/2" BSP
P0002153		15	3/4" BSP
P0002148		22	3/4" BSP
P0002154		22	1" BSP
P0002149		28	1" BSP
P0002387		28	1 1/4"BSP
P0002150		35	1.1/4" BSP
P0002151		42	1 1/2" BSP
P0002152		54	2

Code	Description	Size		Box Qty
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**MI TEE**

Socket Ends - MI BSP Branch

Product No	D1	MI	D2
P0001813	15	1/2" BSP	15
P0001814	22	3/4" BSP	22
P0001815	22	1" BSP	22
P0008998	28	3/4" BSP	28
P0001816	28	1" BSP	28
P0008999	35	3/4" BSP	35
P0002355	35	1 1/4" BSP	35
P0009000	42	3/4"	42

**TEE REDUCED**

Socket Ends & Branch

Product No	D1	D2
P0001638	22	15
P0001639	28	15
P0001640	28	22
P0001641	35	15
P0001642	35	22
P0001789	35	28
P0001790	42	15
P0001791	42	22
P0001792	42	28
P0001793	42	35
P0008995	54	15
P0001794	54	22
P0001795	54	28
P0001796	54	35
P0008994	54	42
P0008996	76.1	22
P0001797	76.1	28
P0008997	76.1	35
P0001643	76.1	42
P0001798	76.1	54
P0002365	88.9	22
P0002366	88.9	28
P0002367	88.9	35
P0002368	88.9	42
P0002369	88.9	54
P0002370	88.9	76.1
P0002371	108	22
P0002372	108	28
P0002373	108	35
P0002374	108	42

Code	Description	Size	Box Qty
P0069361		108	54
P0069360		108	76.1
P0002375		108	88.9
P0002376		168.3	76.1
P0002377		168.3	88.9
P0002378		168.3	108

**FI TEE**

Socket Ends - FI BSP Branch

Code	Description	Size	Box Qty
		D1	FI
P0001799		15	1/2" BSP
P0001800		22	1/2" BSP
P0001801		22	3/4" BSP
P0001802		28	1/2" BSP
P0001803		28	3/4" BSP
P0009327		28	1" BSP
P0001804		35	1/2" BSP
P0001805		35	3/4" BSP
P0002356		35	1" BSP
P0002357		35	1 1/4" BSP
P0001806		42	1/2" BSP
P0001807		42	3/4" BSP
P0002358		42	1" BSP
P0002359		42	1 1/2 " BSP
P0001808		54	1/2" BSP
P0001809		54	3/4 " BSP
P0002360		54	1" BSP
P0001810		54	2" BSP
P0001811		76.1	1 3/4" BSP
P0001812		76.1	2" BSP
P0002361		88.9	3/4" BSP
P0002362		88.9	2" BSP
P0002363		108	3/4" BSP
P0002364		108	2" BSP

Code	Description	Size	Box Qty
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**TEE EQUAL**

Socket Ends & Branch

P0001625		15	
P0001626		22	
P0001627		28	
P0001628		35	
P0001629		42	
P0001630		54	
P0001631		76.1	
P0002353		88.9	
P0001632		108	
P0002354		168.3	

**SPIGOT REDUCER**

Socket - Tube End (Male/Female)

Product No	D1	D2
P0002057	22	15
P0002058	28	15
P0002059	28	22
P0002060	35	15
P0002061	35	22
P0002062	35	28
P0002063	42	15
P0002064	42	22
P0002065	42	28
P0002066	42	35
P0002067	54	15
P0002068	54	22
P0002069	54	28
P0002070	54	35
P0002071	54	42
P0002072	76.1	42
P0002073	76.1	54
P0002100	88.9	42
P0002379	88.9	54
P0002380	88.9	76.1
PLM32345	108	54
PLM32346	108	76.1
P0002381	108	88.9
P0002382	168.3	88.9
P0002383	168.3	108
P0002384	168.3	139.7

Code	Description	Size	Box Qty
<b>PUSH IN PLUG</b>			
	Tube End (Male)		
		D1	
P0008788		15	
P0002312		22	
P0002313		28	
P0002314		35	
P0002413		42	
P0002414		54	
P0002415		76.1	
P0002416		88.9	
P0002417		108	
<b>CAP END</b>			
	Socket End		
		D1	
P0002082		15	
P0002083		22	
P0002084		28	
P0002085		35	
P0002086		42	
P0002087		54	
P0002388		76.1	
P0002389		88.9	
P0002390		108	
<b>M10 BOSS HANGER</b>			
	Product No	D1	
P0002286		15	
P0002287		22	
P0002288		28	
P0002289		35	
P0002290		42	
P0002291		54	
P0002292		76	
P0002293		108	
<b>M12 BOSS HANGER</b>			
P0002399		168.3	
<b>BRACKET HANGER &amp; T PIECE</b>			
P0002304		BRACKET HANGER	
P0002305		BRACKET 'T' PIECE	

Code	Description	Size	Box Qty
<b>ELONGATION COMPENSATOR</b>			
		D1	
P000		15	
P000		22	
P000		28	
P000		35	
P000		42	
P000		54	
P000		76.1	
P000		88.9	
P000		108	
<b>PLAIN HANGER</b>			
		D1	
P0002324		15	
P0002325		22	
P0002301		28	
P0002326		35	
P0002302		42	
P0002303		54	
P0002327		76	
P0002328		108	
P0002398		168.3	
<b>BACKING PLATE</b>			
		Type	
P0002401		M10	
P0002419		M12	
<b>THREADED ROD 1M</b>			
		Type	
Product No		M10	
P0002423		M12	
P0002418			
<b>PIPE BRIDGE</b>			
	Plain Ends (male/male)		
	Product No	D1	
P0009023		15	
P0009024		22	
P0009025		28	



Code	Description	Size	Box Qty
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**PIPE BRIDGE**

Socket Ends (female/female)

		D1	
P0009023		15	
P0009024		22	
P0009025		28	

**PRE-FORMED PIPE BRIDGE**

Plain Ends (male/male)

		D1	
P0009020		15	
P0009021		22	
P0009022		28	

**COVER FLANGE**

Product No		D1	
P0008736		15	
P0008737		22	
P0008738		28	
P0008739		35	
P0008740		42	
P0008741		54	

**RING SEALS**

Rubber Ring Seals

Depending on the application, the ring seals may need to be changed to a different type for higher chemical or temperature resistance.

Fittings with a press-fit socket are fitted with a EPDM rubber ring seal as standard.

Refer to our relevant Technical Media Chart for suitability or contact us for more information.

Union fittings with a (flat) rubber gasket seal and a (round) ring seal, both EPDM as standard.

**EPDM BLACK  
-20°C TO +110°C  
STANDARD**

P0002500		15	
P0002501		22	
P0002502		28	
P0002503		35	
P0002504		42	
P0002505		54	
P0002506		76.1	
P0002507		88.9	
P0002508		108	
P0002509		168.3	

Code	Description	Size	Box Qty
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**FKM (VITON) RED OR GREEN  
-20°C TO +200°C**

P0002315		15	
P0002316		22	
P0002317		28	
P0002318		35	
P0002319		42	
P0002402		54	
P0002320		76.1	
P0002321		88.9	
P0002322		108	
P0002323		168.3	

**NBR YELLOW OR GREY  
-20°C TO +70°C OIL OR GAS**

P0002403		15	
P0002404		22	
P0002405		28	
P0002406		35	
P0002407		42	
P0002408		54	
P0002409		76.1	
P0002410		88.9	
P0002411		108	
P0002412		168.3	

**STAINLESS TUBE SS 316 - 6M**

Product No	Thickness	Diameter
P0002164	1.0	15
P0002165	1.2	22
P0002166	1.2	28
P0002167	1.5	35
P0002282	1.5	42
P0002283	1.5	54
P0002284	2.0	76.1
P0002339	2.0	88.9
P0002285	2.0	108
P0002341	2.0	168.3