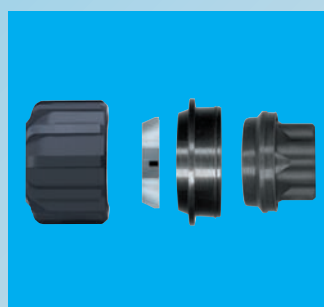


*Utility solutions – Plastic compression fittings*



# Utility solutions

## Plastic compression fittings

### Product overview

Proflow is the Pegler Yorkshire brand name for a specialised range of products for the Utilities market. This range incorporates the sub-brands 'Proflow Brass' and 'Proflow Plastic'.

Together, these ranges provide the utilities sector with a stronger and wider choice of product whilst demonstrating our commitment to fully supporting this market sector.

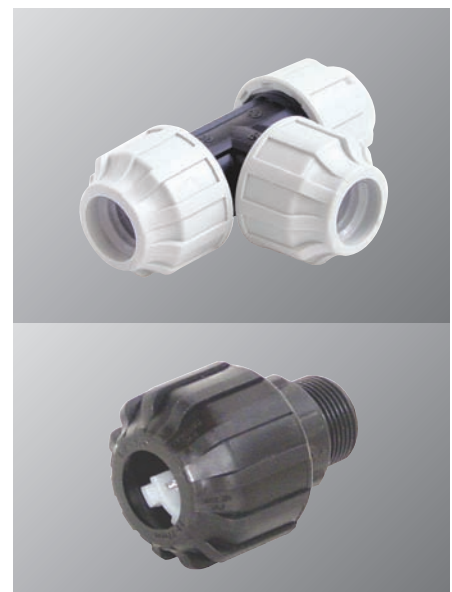
Proflow Plastic compression fittings are suitable for above and below ground applications and for jointing a wide range polyethylene pipes. Proflow Plastic fittings are supplied with an aesthetically pleasing black finish with a contrasting cream coloured compression nut denoting a standard fitting or a black nut indicating a universal fitting.

## Plastic compression fittings

Proflow plastic compression is a dedicated metric range of fittings boasting in excess of 21 patterns with over 160 fittings available in sizes from 20mm to 110mm and suitable for wide range polyethylene pipes conforming to ISO 4427-1:2007

### Features

- Wide range of metric sized fittings from 20mm to 110mm
- Lightweight but strong (PN16 rated)
- Quick and Easy to Install as there is no need to disassemble when fitting
- Extensive range of Universal fittings with a wide range of tolerances
- Double ended Universal fittings suitable for a wide range of applications, for example Lead to Copper. Capable of dealing with 11lb Lead – no need to dress the lead when fitting.
- WRAS Approved



## Guarantees

### 25 YEAR GUARANTEE

Proflow Plastic fittings are guaranteed against all manufacturing defects for 25 years when installed in accordance with our instructions and along with other manufacturing pipeline components conforming to the specified standard.

## Fittings and tube compatibility

Proflow Plastic fittings for plastic pipes offers a Class 1 end-load bearing, connections for use with:

- MDPE to BS6572 and BS6730
- Imperial black pipe: all classes including BS1972 and BS3284

TUBE/PIPE TYPE	Proflow Plastic (PE)	Proflow Plastic (Universal)
PE (Metric)	✓	–
PE (Imperial)	–	✓
uPVC	–	✓
mPVC	–	✓
LDPE	✓	✓
MDPE	✓	✓
HDPE	✓	✓
Galvanized carbon steel	–	✓
Lead	–	✓
Copper (Table X & Y)	–	✓
CTS	–	✓
IPS	–	✓

## Standards and approvals UK

Proflow Plastic fittings are tested and comply with the requirements of the United Kingdom Water Regulations/ Byelaws (Scotland). The Proflow range has been designed to provide optimum performance and cost saving benefits for commercial and industrial potable water applications.

The fitting body is opaque and when measured in accordance with ISO 7686:2005 less than 0.21% of light will pass through the wall of the fitting.



## Materials specification

COMPONENT	Proflow Plastic
Body	PP-B
Nut	PP-B
Pressing ring	PP-B
Grip ring	POM
'O' rings	NBR

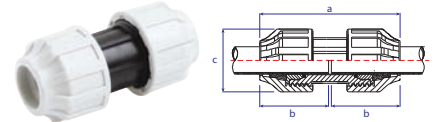
Plastics parts exposed to ultra-violet radiation includes a UV stabiliser.

# Plastic compression fittings

## PP1 Straight coupling

Size	a	b	c	Order code
20mm	106	51	47	17700
25mm	115	55	54	17701
32mm	122	59	65	17702
50mm	175	85	94	17703
63mm	210	102	117	17704
75mm	260	131	124	17705
90mm	287	141	147	17706
110mm	353	174	179	17707

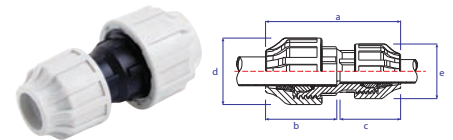
Polyethylene x polyethylene



## PP1R Reducing coupling

Size	a	b	c	d	e	Order code
25 x 20mm	111	55	52	54	47	17708
32 x 20mm	114	59	51	65	47	17709
32 x 25mm	118	58	56	65	54	17710
50 x 32mm	147	84	58	94	65	17800
63 x 50mm	193	103	86	117	94	17801
75 x 63mm	249	138	105	124	117	17802
90 x 75mm	297	148	141	147	124	17803
110 x 90mm	345	179	158	179	147	17804

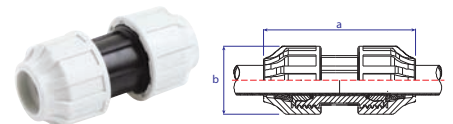
Polyethylene x polyethylene



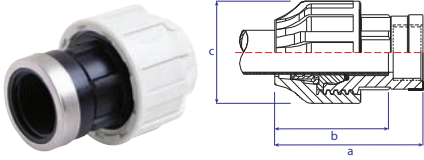
## PP1S Slip coupling

Size	a	b	Order code
63mm	106	51	17711
75mm	115	55	17712
90mm	122	59	17713
110mm	151	73	17714

Polyethylene x polyethylene



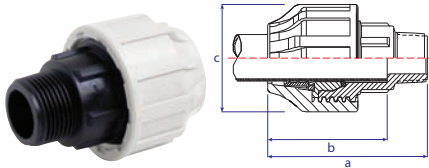
## Plastic compression fittings



### PP2 Straight female connector

Size	a	b	c	Order code
20mm x 1/2"	73	52	47	17715
25mm x 1/2"	81	60	54	17716
25mm x 3/4"	82	60	54	17717
32mm x 1"	88	64	65	17718
50mm x 1 1/2"	118	89	94	17719
63mm x 2"	145	109	117	17720
75mm x 2 1/2"	169	132	126	17721
90mm x 3"	184	146	146	17722
110mm x 4"	219	176	177	17723

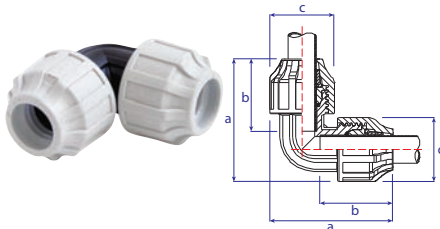
Polyethylene x BSP female parallel thread



### PP3 Straight male connector

Size	a	b	c	Order code
20mm x 1/2"	72	52	47	17724
25mm x 1/2"	79	58	54	17725
25mm x 3/4"	81	59	54	17726
32mm x 1"	87	61	65	17727
50mm x 1 1/2"	121	92	94	17728
63mm x 2"	139	104	117	17729
75mm x 2"	181	142	126	17730
75mm x 3"	182	142	126	17731
90mm x 3"	200	158	146	17732
110mm x 4"	231	176	177	17733

Polyethylene x BSP male taper thread



### PP12 Elbow

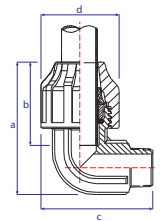
Size	a	b	c	Order code
20mm	90	53	47	17734
25mm	100	57	54	17735
32mm	110	59	65	17736
50mm	158	85	94	17737
63mm	191	99	117	17738
75mm	239	126	124	17739
90mm	275	145	147	17740
110mm	325	176	179	17741

Polyethylene x polyethylene

### PP13 Male elbow

Size	a	b	c	d	Order code
20mm x 1/2"	82	53	68	47	17742
25mm x 3/4"	93	59	75	54	17743
32mm x 1"	106	61	93	65	17744
50mm x 1 1/2"	153	92	128	94	17745
63mm x 2"	176	101	141	117	17746

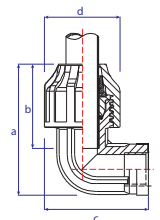
Polyethylene x BSP male taper thread



### PP14 Female elbow

Size	a	b	c	d	Order code
20mm x 1/2"	82	52	66	47	17747
25mm x 3/4"	93	58	74	54	17748
32mm x 1"	103	62	91	65	17749
50mm x 1 1/2"	153	92	122	94	17750
63mm x 2"	176	101	142	117	17751
75mm x 2 1/2"	225	124	147	126	17752
90mm x 3"	261	145	177	146	17753
110mm x 4"	313	175	208	177	17754

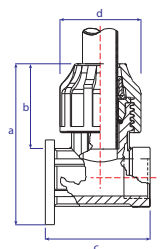
Polyethylene x BSP female parallel thread



### PP15 Wallplate elbow

Size	a	b	c	d	Order code
20mm x 1/2"	91	51	63	40	17755
25mm x 3/4"	104	59	66	46	17756

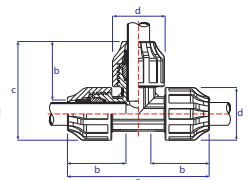
Polyethylene x BSP female parallel thread with wall fixing



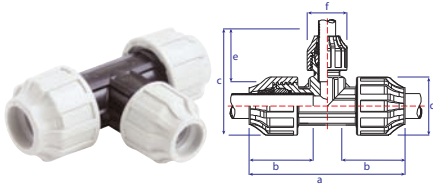
### PP24 Equal tee

Size	a	b	c	d	Order code
20mm	132	53	89	47	17757
25mm	148	59	101	54	17758
32mm	159	61	113	65	17759
50mm	241	91	168	94	17760
63mm	280	106	198	117	17761
75mm	343	123	233	126	17762
90mm	399	143	270	146	17763
110mm	465	175	322	177	17764

All ends polyethylene



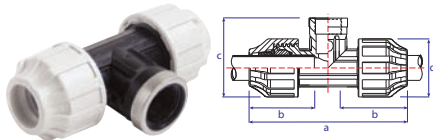
## Plastic compression fittings



### PP25 Reducing tee

Size	a	b	c	d	e	f	Order code
25 x 25 x 20mm	147	59	101	54	53	47	17765
32 x 32 x 25mm	159	61	121	65	59	54	17766
50 x 50 x 32mm	240	91	149	94	64	65	17767
63 x 63 x 50mm	269	100	189	117	94	90	17768

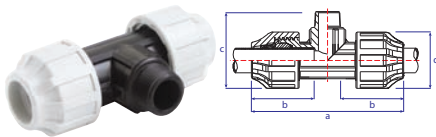
All ends polyethylene



### PP30 Female branch tee

Size	a	b	c	d	Order code
20 x 20mm x 1/2"	132	51	66	47	17769
25 x 25mm x 3/4"	148	57	74	54	17770
32 x 32mm x 1"	160	61	91	65	17771
50 x 50mm x 1 1/2"	241	92	123	94	17772
63 x 63mm x 2"	269	100	144	117	17773
75 x 75mm x 2 1/2"	345	123	148	126	17774
90 x 90mm x 3"	398	145	180	146	17775
110 x 110mm x 4"	466	176	209	177	17776

Polyethylene x polyethylene x BSP female parallel thread

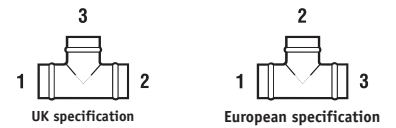


### PP31 Male branch tee

Size	a	b	c	d	Order code
20 x 20mm x 1/2"	132	53	70	47	17777
25 x 25mm x 3/4"	148	59	75	54	17778
32 x 32mm x 1"	160	62	93	65	17779
50 x 50mm x 1 1/2"	241	92	124	94	17780
63 x 63mm x 2"	269	100	144	117	17781

Polyethylene x polyethylene x BSP male taper thread

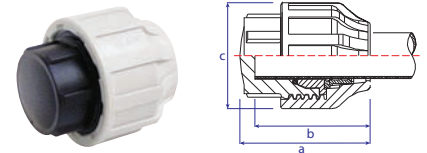
### Tee specification



### PP61 Stop end

Size	<i>a</i>	<i>b</i>	<i>c</i>	Order code
20mm	57	51	47	17782
25mm	63	56	54	17783
32mm	69	61	65	17784
50mm	101	91	94	17785
63mm	118	106	117	17786
75mm	159	142	126	17787
90mm	171	157	146	17788
110mm	196	181	177	17789

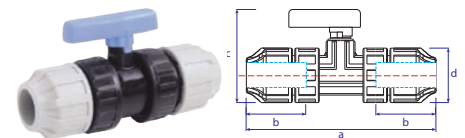
Polyethylene



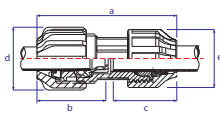
### PP871 Compression valves

Size	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	Order code
20mm	150	45	70	40	17790
25mm	190	65	110	46	17791
32mm	200	65	110	49	17792
50mm	280	90	145	70	17793
63mm	330	115	170	86	17794

Polyethylene x polyethylene



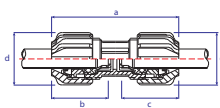
# Plastic compression universal fittings



## UT1 Universal transition coupling

Size	a(max/min)	b	c	d	e	Order code
15-22 x 20mm	110/117	58	51	47	55	17900
15-22 x 25mm	116/123	58	57	54	55	17901
15-22 x 32mm	119/126	58	61	65	55	17902
21-27 x 20mm	112/120	61	51	47	65	17903
21-27 x 25mm	134/142	61	57	54	65	17904
21-27 x 32mm	123/131	61	61	66	65	17905
21-27 x 50mm	153/160	61	92	94	65	17906
27-35 x 25mm	124/139	75	57	54	80	17907
27-35 x 32mm	134/149	75	61	65	80	17908
27-35 x 50mm	159/174	75	92	94	80	17909
27-35 x 63mm	180/195	75	104	117	80	17910
35-50 x 32mm	147/165	108	61	65	95	17911
35-50 x 50mm	181/198	108	92	94	95	17912
35-50 x 63mm	195/213	108	104	117	95	17913

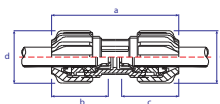
Any metallic\* or plastic pipe x polyethylene



## UT1S Universal repair coupling

Size	a(max/min)	b	c	d	e	Order code
15-22mm	103/126	55	55	58	58	17914
21-27mm	123/136	65	65	61	61	17917
27-35mm	140/164	80	80	75	75	17920
35-50mm	199/238	95	95	108	108	17922

Any metallic\* or plastic pipe x any metallic or plastic pipe



## UT1SR Universal reducing coupling

Size	a(max/min)	b	c	d	e	Order code
15-22mm x 21-27mm	116/131	55	65	58	61	17915
15-22mm x 27-35mm	119/143	55	80	58	75	17916
21-27mm x 27-35mm	128/146	65	80	61	75	17918
22-27mm x 35-50mm	159/181	65	95	61	108	17919
27-35mm x 35-50mm	163/196	80	95	75	108	17921

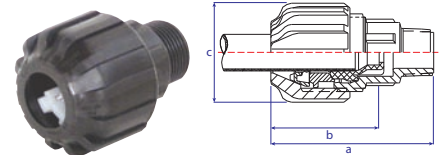
Any metallic\* or plastic pipe x any metallic or plastic pipe



### UT3 Universal male connector

Size	a(max/min)	b	c	Order code
15-22mm x 1/2"	77/84	58	55	17927
15-22mm x 3/4"	78/85	58	55	17928
15-22mm x 1"	81/87	58	55	17929
21-27mm x 3/4"	81/89	61	65	17930
21-27mm x 1"	84/91	61	65	17931
21-27mm x 1 1/4"	85/92	61	65	17932
27-35mm x 1"	92/100	75	80	17933
27-35mm x 1 1/4"	92/106	75	80	17934
27-35mm x 1 1/2"	110/127	75	80	17935
35-50mm x 1 1/4"	110/127	108	95	17936
35-50mm x 1 1/2"	113/130	108	95	17937
35-50mm x 2"	114/131	108	95	17938

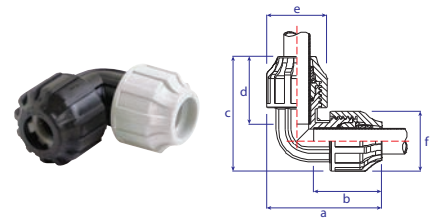
Any metallic\* or plastic pipe x BSP male taper thread



### UT12 Universal transition 90° elbow

Size	a(max/min)	b	c	d	e	f	Order code
15-22 x 20mm	95/102	58	101	51	47	55	17923
15-22 x 25mm	100/107	58	103	57	54	55	17924
21-27 x 25mm	104/112	61	115	57	54	65	17925
21-27 x 32mm	109/116	61	112	61	65	65	17926

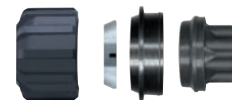
Any metallic\* or plastic pipe x polyethylene



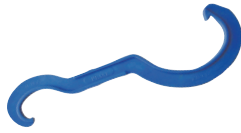
### UT170 Universal fitting kit

Size	Order code
15-22mm	17939
21-27mm	17940
27-35mm	17941
35-50mm	17942

Any metallic\* or plastic pipe



## Plastic accessories



### UT175 Double wrench

Size	Order code
16-63mm	17943



### PP78A Compression nut

Size	Order code
16/20mm	17990
25mm	17991
32mm	17992
50mm	17993
63mm	17994
75mm	17995
90mm	17996
110mm	17997



### PP100 EPDM replacement 'O' ring

Size	Order code
20mm	17960
25mm	17961
32mm	17962
50mm	17963
63mm	17964
75mm	17965
90mm	17966
110mm	17967



### PP66 Pipe Liner

Size	Order code
20mm	17944
25mm	17945
32mm	17946
50mm	17947
63mm	17948



### PP79C Grip ring

Size	Order code
20mm	17970
25mm	17971
32mm	17972
50mm	17973
63mm	17974
75mm	17975
90mm	17976
110mm	17977



### PP80 Copper Adaptor Kit

Size	Order code
15mm	17958
22mm	17959



### PP78B Compression ring

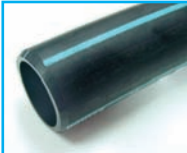


Size	Order code
20mm	17980
25mm	17981
32mm	17982
50mm	17983
63mm	17984
75mm	17985
90mm	17986
110mm	17987

# Utility solutions




## Plastic compression fittings

### Installation instructions



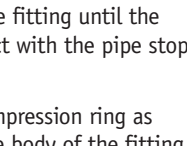


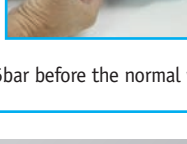
#### Preparation all sizes


1. Cut the pipe square. 
2. Chamfer the pipe end to protect the O-ring on pipe insertion, clean away any swarf or dirt from the pipe end. 
3. Mark the pipe with the socket depth of the fitting. 
4. For plastic pipe sizes 20mm to 63mm a pipe support liner must be inserted into the pipe.

#### Joining 16mm to 63mm fittings

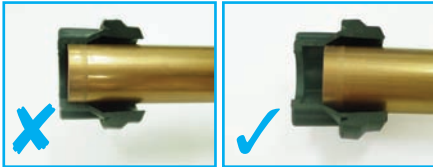
1. Unscrew the nut 2 full turns (720°) from full threaded. 
2. Insert the pipe into the fitting until the pipe makes firm contact with the pipe stop in the fitting. 
3. Tighten the nut with your hand and then using the correct size of hook wrenches tighten the nut further until the pipe is firmly clamped in place. Check that the mouth of the fitting corresponds to the depth mark made earlier. 

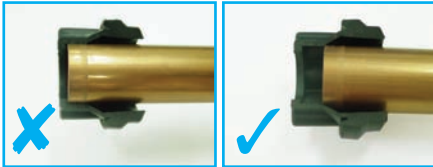
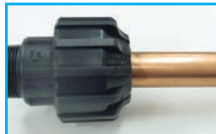
#### Joining 75mm to 110mm fittings

1. Disassemble the fitting separating all its component parts, taking note of the order and orientation of the parts. 
2. Slide the nut, then the compression ring and finally the O-ring over the end of the pipe. 
3. Insert the pipe into the fitting until the pipe makes firm contact with the pipe stop in the fitting. 
4. Pull the o-ring and compression ring as close as possible to the body of the fitting. 
5. Tighten the nut with your hand and then using the correct size of hook wrenches tighten the nut further. 
6. Unscrew the nut and retract along the pipe. Now place the grip ring over the pipe as close as possible to the body of the fitting. 

7. Tighten the nut onto the fitting with your hand and then using the hook wrenches tighten the nut further until the pipe is firmly clamped in place. 

#### Joining universal fittings

1. These joints are made in the same way as 16-63mm Proflow Plastic compression joints, but instead of using an o-ring they feature a large rubber seal. It is important that when you insert the tube into this rubber seal you DO NOT force the tube all the way to the bottom of the rubber. 

2. Tighten the nut with your hand and then using the correct size of hook wrenches tighten the nut further until the tube is firmly clamped in place. 
3. The pipe should be kept in-line with the fitting. 

**Note:** Pegler Yorkshire recommends that all Proflow plastic installations are tested at 5bar before the normal working pressure is applied.

## Applications

Proflow Plastic fittings are suitable for use on cold water/potable water applications.

## Materials specification

Fittings Material	Component	MRS/MPa	Specified design stress S / MPa
PP-B	Nut	8	6.3
PP-B	Body	8	6.3
PP-B	Pressing Ring	8	6.3
POM	Grip Ring	10	6.3
NBR	'O'-ring	10	6.3

## Chemical resistance

Proflow plastic fittings are resistant to a wide range of chemicals, for a full listing refer to the Proflow plastic product bulletin on our web site. [www.pegleryorkshire.co.uk](http://www.pegleryorkshire.co.uk)





# Pegler Yorkshire

*Our brands:*

**terrier**

HEATING SOLUTIONS

**YORKSHIRE**

SOLDER RING SOLUTIONS

**Tectite**

PUSH-FIT SOLUTIONS

**XPress**

PRESS-FIT SOLUTIONS

**ENDEX**

END FEED SOLUTIONS

**KUTERLITE**

PLUMBING SOLUTIONS

**PRESTEX**

DOMESTIC VALVE SOLUTIONS

**PEGLER**

COMMERCIAL VALVE SOLUTIONS

**meibes**

RENEWABLE SOLUTIONS

**HENCO**

PLASTIC PIPE SOLUTIONS

**PROFLOW**

UTILITY SOLUTIONS

**PERFORMA**

UTILITY TAP AND MIXER SOLUTIONS

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