

Solder ring solutions

Pegler Yorkshire

Pegler Yorkshire Unrivalled quality, innovation, customer service and long-term value for money

As part of the global Aalberts Industries NV Group, Pegler Yorkshire is one of Britain's largest and most respected manufacturers of innovative products for the demanding and diverse plumbing and heating industries.

Pegler Yorkshire – a unique story

It was in the late 19th century when two separate and altruistic companies set out on the long road to satisfying the needs of prospective customers and, of course, to profit in the process. Coincidentally located just 30 miles apart, each was driven by the same vision and ideals of a no-compromise culture. Cutting corners was never an option and only the best could ever be good enough.

These two companies were Pegler and Yorkshire Fittings. In meeting all the challenges of the 20th and 21st centuries both companies have changed a great deal, the business ethos common to both never has. And now these two like minds have come together as Pegler Yorkshire – a single source of proven, flow control solutions for installers, specifiers and engineers in the domestic, public and commercial markets.

Reputable and established brands

Just as Pegler and Yorkshire have endured over such a long period, many of the brand names they have created over time are similarly very well established, in many cases as market leaders in their respective categories. The very extensive Pegler Yorkshire product range now comprises more than 15,000 lines – without rival for the choice and coverage it offers and for the number and scope of applications it satisfies.

A mind for innovation

Brands which endure and are not easily displaced must by definition be the product of innovative thinking and technology that continually stand the test of time. Pegler Yorkshire's no-compromise philosophy will always put new product development high on the agenda, based on not only meeting the needs of today's markets, but also anticipating and meeting customers' future needs.

The true value of knowledge

As well as the benefit of unparalleled experience of the flow control market and its growth over many decades, Pegler Yorkshire has strong associations with major industry bodies such as those responsible for determining product and performance standards.

The result is a comprehensive store of knowledge and reference which is invaluable in the key areas of research, development and dealing efficiently and accurately with customer enquiries – particularly with regard to product application and suitability.

A charter for the best in customer service

With such a diverse product range and customer base, Pegler Yorkshire's no-compromise standards of quality, reliability and value for money naturally go hand in hand with the principle of delivering the best in customer service.

Green awareness and responsibilities

Developing products which reduce the carbon footprint by saving water and energy is only one side of the green issues coin. Pegler Yorkshire is also increasingly committed to recycling key production materials (such as brass), eliminating the need for excessive packaging wherever possible, and looking for new ways in which the company's day-to-day operations can be improved to reduce waste and minimise the impact on the environment.

Likewise, social responsibilities such as supporting employee and local community welfare are aspects of the very fabric and philosophy upon which both Pegler and Yorkshire were founded.

Standards

Pegler Yorkshire is dedicated to designing, developing and manufacturing products of the highest quality. We are members of numerous standards committees and take an active part in their development. Our products, where applicable, comply with the relevant British, European and International standards. Whatever the latest developments, we guarantee that our products will always meet the latest and highest standards.



Trade bodies

Pegler Yorkshire is pleased to be associated with several influential industry organisations:



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Product range details

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Yorkshire)

Solder ring solutions The principle of the Yorkshire fitting

At Pegler Yorkshire we are constantly striving to develop jointing solutions that meet the changing needs of specifiers and installers alike. The Yorkshire potable suite of integral solder ring capillary fittings has the solid reputation of an established product range, and suits a broad spectrum of applications in the domestic, commercial and industrial sectors.

The Yorkshire integral solder ring joint

During the manufacture of these precisionmade fittings, a ring of high quality leadfree solder is positioned in each capillary socket. When heat is applied, the solder is released into the gap between the tube and the fitting, resulting in a totally sound joint without the need to end feed additional solder.

Advantages of Yorkshire

The major advantage of the Yorkshire integral solder ring fitting is that the installer requires no additional solder. This removes any expensive solder waste and the need to estimate the quantity required for a secure, reliable joint. Once heated, the appearance of a complete ring of solder around the mouth of the socket makes it clearly apparent that the joint has been made.

The range is light and neat, with compact dimensions that are ideal for making use of limited space in ducts and other restricted areas. Providing that cleaning and fluxing is properly carried out, Yorkshire integral solder ring fittings can often be installed in locations inaccessible to other fitting types. In addition, the fittings' smooth lines minimise flow restrictions and are unobtrusive on exposed pipelines.





Durability

Yorkshire integral solder ring fittings are made from copper, gunmetal or a dezincification resistant alloy (DZR). Their impermeable nature gives excellent protection against contaminants that can threaten the domestic water supply. In addition, copper and its alloys are recognised as tried and tested plumbing materials on the grounds of corrosion resistance. Properly installed systems can be expected to outlast many of the buildings in which they are installed.

The product range is versatile, and results in a visually pleasing finish. Where both functionality and maximum aesthetic appeal are required, for example in bathrooms, a commercial chrome plate finish can be specified. In addition, a polished quality chrome plate finish can be manufactured to special order.

Users of Yorkshire integral solder ring fittings can be confident that they are purchasing an established product with a proven reputation for reliability and quality which spans more than eighty years. As a market leading company, Pegler Yorkshire was the first to incorporate lead-free solder into integral solder ring fittings as standard in 1985.

All products across the Yorkshire potable range are clearly branded with the imprinted YP logo so users have a visible assurance that no lead is present in the solder of a Yorkshire installation and that fittings comply with the requirements of The Water Supply (Water Fittings) Regulations/Byelaws (Scotland).

YORKSHIRE) Solder ring solutions Product overview

The Yorkshire integral solder ring range comprises over 700 different items. In addition to standard line fittings, the range includes an extensive selection of heating components and accessories. Products, such as general high duty have been developed for commercial, industrial and engineering applications.

YORKSHIRE

General fittings

The Yorkshire general range of integral solder ring fittings is designed for jointing copper tubes to BS EN 1057 (R220, R250 and R290) in a wide range of applications.

Features

- Available in sizes from 6mm to 67mm
- Manufactured from copper or copper alloy
- Suitable for use in hot and cold water services for potable water, in small bore and mini bore central heating systems, and in low pressure steam heating and pressurised unvented heating systems and in chilled water applications
- Also suitable for sanitation services, compressed air lines, gas distribution systems and engineering pipeline services that convey liquids, oils, air and gases at temperatures up to 110°C
- Each fitting contain a precise amount of lead-free solder for a perfect joint every time



YORKSHIRE)

Heating components

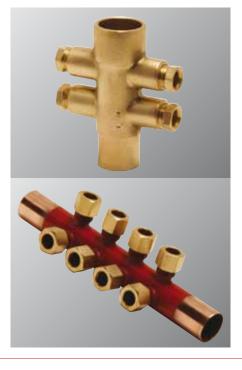
The Yorkshire range incorporates a selection of components specifically for use in domestic and commercial heating systems. All are designed to make installations as quick and economical as possible.

Yorkshire manifolds are supplied as small basic units, which can be coupled together for larger systems. This provides improved system control, a simple layout and keeps circuit resistance low. If required, the heating system can be zoned, with a set of manifolds serving each sector.

Features

The Yorkshire range includes three different types of manifold, all of which are available in 22mm and 28mm sizes, with 8mm and 10mm outlets

- Option of linear, side entry and macrafold manifolds
- Manifolds enable the main flow and return in a minibore central heating system to be divided into smaller radiator circuits
- Linear flow manifolds have a low flow resistance due to their straight line design and their copper outlets can be easily connected to the radiator pipework using Yorkshire integral solder ring fittings
- Side entry manifolds enable installers to easily bank together any combination of units and can be directly connected to one another in various combinations
- Micrafold manifolds are similar to side entry manifolds, but also incorporate a central divider which gives flow and return in one component





YORKSHIRE) Solder ring solutions Product overview

Yorkshire)

Waste fittings

Copper, brass and gunmetal integral solder ring waste fittings are available for standard domestic and commercial waste water systems such as basins, baths, sinks and other sanitary appliances.

Features

- Available in sizes from 28mm to 54mm
- Range includes shallow and deep seal traps as well as a selection of fittings with rodding eyes to enable inspection and maintenance of the pipework
- Bends, tees and crosses have been designed with built in fall, in line with good plumbing practice





Yorkshire)

General **High Duty fittings**

The Yorkshire General High Duty (GHD) range of capillary fittings is specially designed for jointing copper and copper alloy tubes that need to operate at higher temperatures or pressures than are permissible with soft solder joints.

Features

- Available in sizes from 6mm to 54mm
- Manufactured from gunmetal and containing an integral cadmium-free silver brazing alloy, complying with the compositional requirements of BS EN 1044 alloy Ag103 (formerly BS 1845 alloy Ag14)
- Suitable for high temperature heating services such as steam and condensate pipelines
- Also suitable for use in air conditioning services, vacuum, refrigeration and cryogenic applications; vehicle braking systems; and nitrogen and oxygen gas lines
- The joint characteristics ensure GHD fittings can be used for hydraulic services where vibration and stresses are exerted, and for specialist services where high temperatures and pressures exist singly or in combination
- GHD fittings are available degreased and individually bagged





YORKSHIRE)

Chrome plated fittings

The Yorkshire range includes a selection of commercial quality chrome plated fittings which are ideal for use where products are on show, for example in kitchens and bathrooms.

Features

- Available in sizes from 6mm to 54mm
- Manufactured from copper or copper alloy
- Suitable for use in hot and cold potable water services, in small bore and mini bore central heating systems, and in low pressure steam heating and pressurised unvented heating systems and in chilled water applications
- For maximum aesthetic appeal also available with a polished chrome plated finish to special order



YORKSHIRE) Accessories

Accessories and sundries An extensive selection of sundries and

accessories complements the Yorkshire range, providing the installer with the means to use Yorkshire integral solder ring fittings most effectively.

Features

- Fluxes have been specially developed in three types – Traditional Craftsman's Flux, Yorkshire Flux and Degussa H
- Yorkshire cleaning pads are produced from highly abrasive synthetic materials for the effective cleaning of tube ends and fitting sockets prior to fluxing and are not electrically conductive
- Yorkshire steel wool, a more traditional material used for cleaning tubes and fittings, is available in bundles or in pad form
- Yorkshire heat resistant mats are made from asbestos-free woven ceramic fibres, and offer protection to skirtings, paintwork, flooring and decorations from solder splashes and hot flux



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Yorkshire) Solder ring solutions Product overview

YORKSHIRE)

Pipe clips and brackets

The Yorkshire range includes a comprehensive selection of pipe clips, stems and brackets for fixing copper tube to a variety of surfaces and provides the installer with a wide choice of options for a variety of installations.

Features

- Available in sizes from 6mm to 108mm
- Saddle bands mount copper tube directly to a surface
- Pipe rings, in conjunction with single or two-piece spacing clips, can be used where tubing needs to be mounted away from a surface





YORKSHIRE) Solder ring solutions Standards, approvals and guarantees

It is Pegler Yorkshire's policy to provide a range of products and services which meet, or exceed, the requirements of our customers in respect of quality, cost and delivery.

Yorkshire integral solder ring fittings and valves all comply with the relevant British, European and International standards. Whatever the latest developments, we guarantee that our products will always meet the latest and highest standards.

Guarantees

Our policy of continuously and rigorously testing Yorkshire integral solder ring products means we are confident they will give you years of trouble free service. To demonstrate the total confidence we have



in our products and our commitment to customer service, all Yorkshire integral solder ring fittings and valves are guaranteed

against manufacturing defects for 25 years when installed in accordance with our instructions on specified tube materials and applications.

Quality

Quality is of paramount importance to Pegler Yorkshire. Our products conform to current British, European and International standards where applicable and also meet our own rigorous internal quality approvals.

The Company is at the forefront of standards development, and has members on a variety of relevant committees. Pegler Yorkshire operates a Quality Management System for the development, manufacture and supply



of fittings, tube, valves and accessories which complies with the requirements of BS EN ISO 9001:2000.

International Standards Organisation

International standards are conformed to where appropriate.



Pegler Yorkshire is a British Standards Institution registered company.

PRODUCT APPROVAL	S	
Product	WRAS	Kitemark
Yorkshire general	1	v
Yorkshire chrome plate	~	v
Yorkshire general high duty	~	~
Yorkshire manifolds	•	v

Evaluated by WRAS

The Yorkshire integral solder ring range has WRAS been certified by WRAS and is audited periodically.

Yorkshire general range fittings

WRAS All Yorkshire integral solder ring general range fittings are listed and comply with the requirements of the United Kingdom Water Regulations/Byelaws (Scotland).

BS EN 1254 Part 1 Specification for copper and copper alloy fittings with capillary ends for soldering and brazing for use with copper tubes.

BS 1010 Part 2 Draw off taps and above ground stop valves.

BS EN ISO 228:2003 (formerly BS 2779/ ISO 228/1) Specification for tubes and fittings where pressure tight joints are not made on the threads (metric dimensions).

BS 10 (obsolescent) Specification for flanges and bolting for pipes, valves and fittings.

BS EN 1092-3:2003 (formerly BS 4504 Part 3.3) Specification for copper alloy circular flanges and their joints.

BS EN ISO 9453:2006 Specification for soft solders.

Yorkshire general high duty fittings

General High Duty fittings are manufactured to Pegler Yorkshire's own exacting internal quality standards, with designs based on Lloyds formula.

IS07/EN 10226-1 (formerly BS 21/ IS0 7) Specification for tubes and fittings where pressure-tight joints are made on the threads (metric dimensions).

Heating components - manifolds

BS EN 1254 Part 1 Specification for copper and copper alloy fittings with capillary ends for soldering and brazing for use with copper tubes.

Yorkshire waste fittings

BS EN 29453 Refer to Yorkshire general range.

The materials used in Yorkshire integral solder ring fittings and valves are manufactured to the following specifications:

BS EN 1982 Specification for copper and copper alloys, ingots and castings.

BS EN 12163 Specification for copper and copper alloy rod for general purposes. Including testing for dezincification resistance of alloys CZ121 (CW614N), CZ122 (CW617N) and CZ132 (CW602N).

BS EN 12164 Specification for copper and copper alloy rod for free machining purposes. Including testing for dezincification resistance of alloys CZ121 (CW614N), CZ122 (CW617N) and CZ132 (CW602N).

BS EN 12165 Specification for copper and copper alloys, wrought and unwrought forging stocks.

BS EN 12168 Specification for hollow rod for free machining purposes.

Markings

The YP imprint



The YP imprint provides visible assurance of a genuine Yorkshire potable fitting and that the solder is lead free.

Universal Marking

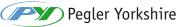
All Yorkshire potable fittings manufactured from DZR alloy carry the distinctive mark.

Gunmetal



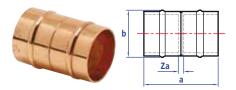
Some Yorkshire integral solder ring fittings and valves are manufactured from gunmetal, and can be identified by the mark on the body.

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Integral lead-free solder ring fittings for copper

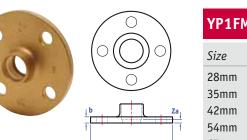


YP1 Strai					
Size	а	b	Za	Order code	
6mm	19	9	2	08000	
8mm	20	11	2	08001	
10mm	22	13	2	08003	
12mm	26	15	2	08005	
15mm•	30	19	2	08010	
22mm•	40	26	2	08020	
28mm	47	33	3	08030	
35mm	59	40	2	08032	
42mm	65	47	2	08034	
54mm	77	60	2	08035	
67mm	79	73	2	08036	

Suitable for: Copper x copper

YP1FD Fl	anged o	onne	ctor		
Size	а	b	Za	Holes	Order code
28mm	115	8	4	4	08075
35mm	121	8	8	4	08076
42mm	134	9	8	4	08077
54mm	153	10	5	4	08078

Suitable for: Copper x BS flange



YP1FM I					
Size	а	b	Za	Holes	Order code
28mm	115	8	4	4	08082
35mm	140	8	4	4	08083
42mm	150	9	5	4	08084
54mm	165	11	5	4	08085
67mm	185	13	6	4	08086

Suitable for: Copper x metric flange

•These items comprise the YPS range.

- Vorkshire Integral Solder Ring Fittings are precision made with a ring of high quality lead-free solder incorporated in the fitting
- No additional solder is required, removing any potential for solder waste
- Available in sizes from 6-67mm, ideal for use in hot and cold water services and for potable water

YP1IM Slip a				
Size	а	b	Za	Order code
1 /2" x 15mm	29	19	1	08040
³ /4" x 22mm	41	27	2	08050
1" x 28mm	47	33	1	08052
1 ¹ /4" x 35mm	59	40	2	08054
1 ¹ /2" x 42mm	66	48	3	08055

Suitable for: Copper x copper

YP1R Reducing coupling

Size	а	b	Za	Order code	
8 x 6mm	20	11	2	08056	
10 x 8mm	24	13	4	08057	
15 x 8mm	33	19	8	08058	
15 x 10mm	32	19	6	08059	
15 x 12mm	31	19	4	08060	
22 x 8mm	42	26	14	08061	
22 x 10mm	43	26	13	08062	
22 x 15mm	40	26	6	08063	
28 x 15mm	50	33	12	08065	
28 x 22mm	48	33	7	08066	
35 x 22mm	64	40	12	08067	
35 x 28mm	58	40	8	08068	
42 x 28mm	67	48	14	08069	
42 x 35mm	69	48	9	08070	
54 x 35mm	87	60	16	08071	
54 x 42mm	84	60	14	08072	

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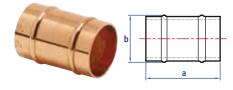
Suitable for: Copper x copper

YP1 Slip straight coupling, slip pattern

Size	а	b	Order code
15mm	30	19	08037
22mm	40	26	08038
28mm	47	33	08039

Suitable for: Copper x copper

Q 1 Range overview **2** Product details





Integral lead-free solder ring fittings for copper



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YP2 Adaptor coupling								
Size	а	Za	S	Order code				
8mm x ¹ /4"	25	16	19	08087				
15mm x ¹ /2"	38	20	26	08090				
22mm x ³ /4"	38	20	31	08092				
28mm x 1"	48	26	39	08093				
35mm x 1 1 /4"	56	29	48	08094				
42mm x 1 1/2 "	60	29	55	08095				
54mm x 2"	70	33	66	08096				

Suitable for: Copper x BSP parallel female thread



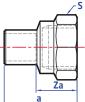
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YP2LC Female reducing connector

Size	а	Za	S	Order code
12mm x ¹ /4"	26	15	18	08100
15mm x ¹ /4"	22	8	20	08101
15mm x ³ /8"	30	16	23	08102
22mm x ¹ /2"	38	19	28	08103

Suitable for: Copper x reduced BSP parallel female thread





YP2LI Female reducing connector

Suitable for: Copper x BSP female thread



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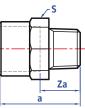
TPS Straight	. mate	COIIIIE	ector	
Size	а	Za	S	Order code
8mm x ¹ /4"	24	14	15	08111
15mm x ¹ /2"	33	19	24	08114
22mm x ³ /4"	37	18	29	08116
28mm x 1"	43	21	37	08118
35mm x 1 ¹ /4"	51	25	45	08119
42mm x 1 ¹ /2"	56	25	51	08120
54mm x 2"	68	32	68	08121
67mm x 2 ¹ /2"	75	30	78	08123

Suitable for: Copper x BSP taper male thread

YP3LC Male reducing connector

Size	а	Za	S	Order code	
15mm x ¹ /4"	28	15	19	08129	
15mm x ³ /8"	29	15	19	08132	
22mm x ¹ /2"	37	18	28	08133	
28mm x ³ /4"	41	19	34	08134	





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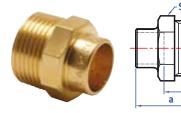
Suitable for: Copper x BSP taper male end

YP3LI Male reducing connector								
Size	а	Za	S	Order code				
¹ /2" x 12mm	30	18	22	08142				
³ /4" x 15mm	34	21	27	08143				

35

08144

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Suitable for: Copper x BSP taper male end

38

YP5 Tank connector

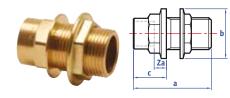
1" x 22mm

Size	а	b	С	Za	Order code	
15mm x ¹ /2"	40	31	21	7	08160	
22mm x ³ /4"	42	45	22	3	08161	
28mm x 1"	49	50	27	5	08162	
35mm x 1 ¹ /4"	59	56	32	6	08163	
42mm x 1 ¹ /2"	69	63	35	4	08164	
54mm x 2"	82	77	42	5	08165	

Suitable for: Copper x BSP parallel male thread with backnut

YP5FC Tank connector

Size	а	b	С	Za	Order code	
15mm x ¹ /2"	59	35	20	6	08180	
22mm x ³ /4"	58	37	20	1	08181	
28mm x 1"	64	44	25	3	08182	



Suitable for: Copper x BSP parallel male thread with backnut



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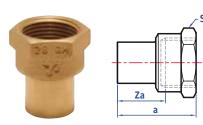
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Integral lead-free solder ring fittings for copper



YP6 Reducer				
Size	а	Za	Order code	
8 x 6mm	21	14	08190	
10 x 8mm	25	13	08191	
12 x 6mm	21	13	08192	
12 x 8mm	27	17	08193	
15 x 8mm	31	21	08194	
15 x 10mm	31	22	08196	
15 x 12mm	30	20	08198	
22 x 12mm	40	28	08199	
22 x 15mm•	41	26	08200	
28 x 15mm	48	33	08202	
28 x 22mm	49	30	08204	
35 x 15mm	54	42	08206	
35 x 22mm	58	58	08207	
35 x 28mm	54	33	08208	
42 x 15mm	72	57	08209	
42 x 22mm	70	48	08210	
42 x 28mm	67	43	08211	
42 x 35mm	66	38	08212	
54 x 15mm	86	71	08213	
54 x 22mm	75	55	08214	
54 x 28mm	81	58	08215	
54 x 35mm	81	52	08216	
54 x 42mm	78	48	08217	
67 x 28mm	83	61	08218	
67 x 35mm	85	57	08219	
67 x 42mm	89	55	08220	
67 x 54mm	90	53	08221	

Suitable for: Copper x large end for insertion into fitting



YP7 Female adaptor						
Size	а	Za	S	Order code		
15mm x ¹ /2"	35	22	26	08223		
22mm x ³ /4"	43	27	32	08224		
28mm x 1"	49	30	40	08225		
35mm x 1 1 /4"	58	36	50	08226		
42mm x 1 ¹ /2"	64	48	55	08227		
54mm x 2"	73	49	66	08228		

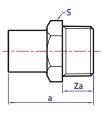
Suitable for: Male copper for insertion into fitting x BSP parallel female thread

•These items comprise the YPS range.

YP8 Male adaptor

Size	а	Za	S	Order code	
15mm x ¹ /2"	15	37	24	08230	
22mm x ³ /4"	15	45	29	08231	
28mm x 1"	18	50	35	08232	
35mm x 1 ¹ /4"	19	59	43	08233	
42mm x 1 ¹ /2"	20	64	49	08234	
54mm x 2"	22	73	61	08235	

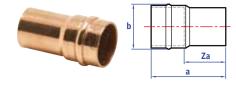




Suitable for: Male copper for insertion into fitting x BSP taper male thread

YP9 Adaptor

Size	а	b	Za	Order code
¹/2" x 15mm	33	18	17	08238
³ /4" x 22mm	43	20	24	08239
1" x 28mm	49	32	27	08240
1 1 /4" x 35mm	61	38	34	08241
1 1/2" x 42mm	68	48	36	08242
2" x 54mm	79	59	45	08243



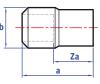
Suitable for: Imperial female copper x metric male copper

YP9B Non-standard adaptor

<u>C'</u>		4	7	Ouden en de
Size	а	b	Za	Order code
1/2" 17G x 15mm	34	19	19	08245

Suitable for: Adapts imperial tube of older 17G standard to metric fittings

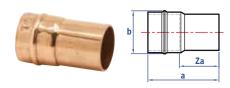




YP99 Adaptor

Size	а	b	Za	Order code
15mm x ¹ /2"	34	18	20	08920
22mm x ³ /4"	44	24	24	08921
28mm x 1"	53	32	31	08922
35mm x 1 ¹ /4"	63	40	36	08923
42mm x 1 ¹ /2"	71	48	38	08924

Suitable for: Metric/imperial female copper x male copper



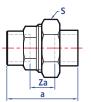


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Integral lead-free solder ring fittings for copper





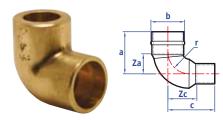
YP11 Union coupling

Size	а	Za	S	Order code
8mm	36	18	22	08250
15mm	59	30	31	08251
22mm	69	29	37	08252
28mm	69	25	46	08253
35mm	69	23	53	08254
42mm	81	19	65	08255
54mm	97	23	82	08256
67mm	92	15	96	08257

Suitable for: Copper x copper

YP12 Elbo	w				
Size	а	b	Za	r	Order code
6mm	13	10	5	-	08265
8mm	18	11	8	10	08266
10mm	21	12	10	12	08268
12mm	25	16	13	14	08270
15mm•	26	19	12	12	08280
22mm•	36	27	16	26	08290
28mm	41	32	19	34	08300
35mm	50	40	22	25	08302
42mm	58	48	27	49	08304
54mm	71	60	34	63	08306
67mm	84	74	45	78	08308

Suitable for: Copper x copper



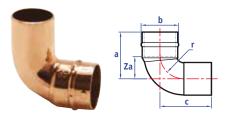
YP12R Reducing elbow											
Size	а	b	С	Za	Zc	Order code					
22 x 15mm	30	27	28	11	13	08310					
28 x 22mm	36	35	34	14	15	08311					

Suitable for: Copper x copper

•These items comprise the YPS range.

YP12S Street elbow

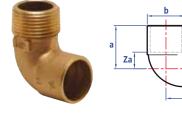
Size	а	b	с	Za	Order code
8mm	23	11	46	13	08315
10mm	30	13	50	19	08316
15mm•	29	19	35	14	08318
22mm	43	27	45	22	08320
28mm	40	32	44	19	08322
35mm	50	40	52	23	08324
42mm	58	49	65	26	08325



Suitable for: Female copper x male copper for insertion into fitting

YP13 Male elbow

Size	а	b	с	Za	Order code
15mm x ¹ /2"	24	21	34	9	08333
22mm x ³ /4"	31	27	34	13	08334
28mm x 1"	38	34	46	16	08335
35mm x 1 ¹ /4"	45	41	48	19	08336
42mm x 1 ¹ /2"	51	48	52	20	08337



Suitable for: Copper x BSP taper male thread

YP14 Female elbow

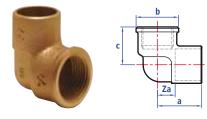
Size	а	b	С	Za	Order code
15mm x ¹ /2"	26	28	22	13	08351
22mm x ³ /4"	33	35	27	14	08353
28mm x 1"	40	42	33	18	08354

Suitable for: Copper x BSP parallel female thread

YP14LC Reducing female elbow

Size	а	b	С	Za	Order code
22mm x ¹ /2"	30	28	28	11	08362

Suitable for: Copper x reduced female end

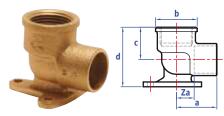


Q 1 Range overview 2 Product details 3 Technical data 4 Installation instructions

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Integral lead-free solder ring fittings for copper



YP15 Backplate elbow, 3 hole

Size	а	b	С	d	Za	Order code	
15mm x ¹ /2"	26	28	31	41	11	08365	
22mm x ³ /4"	33	34	27	49	15	08367	

Suitable for: Copper x BSP parallel female thread

	a Za				- b
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YP15LN Bac	YP15LN Backplate elbow, 3 hole, extended nose										
Size	а	b	с	d	Za	Order code					
15mm x ¹ /2"	24	30	51	70	11	08377					

Suitable for: Copper x BSP parallel female thread

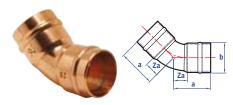
	YP18 Slo
	Size
Za a	15mm 22mm

ow bend Order code а b r Za 19 08390 31 32 17 47 27 47 28 08391 28mm 56 32 59 08392 34

Suitable for: Copper x copper

YP20 Return	bend					
Size	а	b	r	Za	Order code	
15mm	35	20	19	21	08400	
22mm	52	27	33	32	08401	
28mm	59	33	32	37	08402	

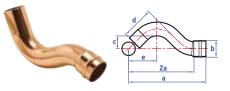
Suitable for: Copper x copper



YP21 Obtus	e elbow	/		
Size	а	b	Za	Order code
15mm	22	19	8	08410
22mm	29	26	10	08412
28mm	38	33	15	08414
35mm	42	40	14	08416
42mm	47	48	15	08417
54mm	56	60	19	08418
67mm	59	77	21	08419

Suitable for: Copper x copper

YP22 Partial crossover											
Size	а	b	С	d	е	Za	Order code				
15mm	115	19	18	40	40	86	08420				
22mm	150	26	20	52	48	105	08422				



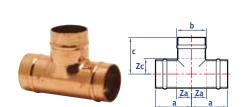
Suitable for: Female copper x male copper for insertion in to fitting

YP23 Full crossover

Size a b c Za Order code 15mm 120 19 20 91 08430 22mm 148 26 20 112 08432						
	Size	а	b	С	Za	Order code
22mm 148 26 20 112 08432	15mm	120	19	20	91	08430
	22mm	148	26	20	112	08432

Suitable for: Copper x copper

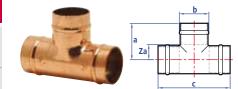
YP24 Equal tee											
Size	а	b	С	Za	Zc	Order code					
6mm	13	10	13	5	5	08440					
8mm	16	12	16	6	6	08441					
10mm	18	14	18	7	7	08443					
12mm	20	15	20	8	8	08445					
15mm•	24	19	24	10	10	08450					
22mm•	32	26	32	13	13	08460					
28mm	38	33	38	16	16	08462					
35mm	49	40	49	20	20	08464					
42mm	56	48	56	25	25	08466					
54mm	65	60	65	30	30	08467					
67mm	77	73	77	37	37	08468					



Suitable for: All ends for copper

YP24IM Slip Adaptor tee, slip pattern

Size UK	European	а	b	С	Za	Order code UK
¹ /2" x ¹ /2" x 15mm	¹ /2" x 15mm x ¹ /2"	24	18	47	9	08470

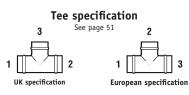


Suitable for: All ends for copper

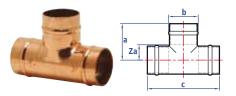
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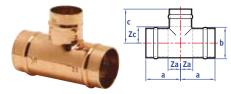
Integral lead-free solder ring fittings for copper



YP24 Slip Equal tee, slip pattern

Size	а	С	Za	Order code	
15mm	23	47	9	08475	

Suitable for: All ends for copper

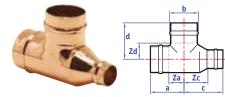


YP25 Tee,	reduced	branch
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Size UK	European	а	b	С	Za	Zc	Order code UK
22 x 22 x 10mm	22 x 10 x 22mm	28	26	30	9	19	08484
22 x 22 x 15mm•	22 x 15 x 22mm	28	26	27	9	13	08490
28 x 28 x 15mm	28 x 15 x 28mm	33	32	31	10	16	08492
28 x 28 x 22mm	28 x 22 x 28mm	36	33	37	14	17	08494
35 x 35 x 15mm	35 x 15 x 35mm	39	41	37	12	23	08496
35 x 35 x 22mm	35 x 22 x 35mm	43	41	41	16	22	08497
35 x 35 x 28mm	35 x 28 x 35mm	43	40	45	15	24	08498
42 x 42 x 15mm	42 x 15 x 42mm	47	48	47	15	33	08499
42 x 42 x 22mm	42 x 22 x 42mm	45	48	44	13	23	08500
42 x 42 x 28mm	42 x 28 x 42mm	47	48	46	15	24	08501
42 x 42 x 35mm	42 x 35 x 42mm	53	48	53	22	25	08502
54 x 54 x 15mm	54 x 15 x 54mm	48	61	48	9	34	08503
54 x 54 x 22mm	54 x 22 x 54mm	52	60	49	13	30	08504
54 x 54 x 28mm	54 x 28 x 54mm	54	59	52	17	30	08505
54 x 54 x 35mm	54 x 35 x 54mm	57	60	56	21	29	08506
54 x 54 x 42mm	54 x 42 x 54mm	61	60	64	24	32	08507
67 x 67 x 28mm	67 x 28 x 67mm	57	73	66	17	43	08508

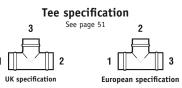
Suitable for: All ends for copper

YP26 Tee, one end reduced



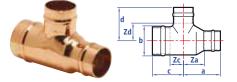
Size а b С d Za Zc Zd Order code UK UK European 22 x 15 x 22mm 22 x 22 x 15mm 28 x 15 x 28mm 28 x 28 x 15mm 28 x 22 x 28mm 28 x 28 x 22mm 35 x 15 x 35mm 35 x 35 x 15mm 48 35 x 22 x 35mm 35 x 35 x 22mm 47 35 x 28 x 35mm 35 x 35 x 28mm 42 x 28 x 42mm 42 x 42 x 28mm 42 x 35 x 42mm 42 x 42 x 35mm 54 x 42 x 54mm 54 x 54 x 42mm

Suitable for: All ends for copper



YP27 Tee, one end and branch reduced

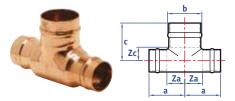
Size UK	European	а	b	С	d	Za	Zc	Zd	Order code UK
22 x 15 x 15mm	22 x 15 x 15mm	33	26	33	28	19	11	14	08530
28 x 15 x 15mm	28 x 15 x 15mm	36	33	32	32	22	10	17	08532
28 x 15 x 22mm	28 x 22 x 15mm	41	33	35	36	27	13	17	08534
28 x 22 x 15mm	28 x 15 x 22mm	38	33	33	32	19	12	17	08536
28 x 22 x 22mm	28 x 22 x 22mm	40	33	36	37	21	14	19	08538
35 x 22 x 22mm	35 x 22 x 22mm	48	40	42	39	29	15	21	08539
35 x 28 x 15mm	35 x 15 x 28mm	43	40	37	35	19	10	19	08540
35 x 28 x 22mm	35 x 22 x 28mm	45	40	41	35	23	13	16	08541
35 x 28 x 28mm	35 x 28 x 28mm	43	40	42	43	21	13	20	08542
42 x 28 x 28mm	42 x 28 x 28mm	54	47	47	46	21	15	23	08543
42 x 35 x 28mm	42 x 28 x 35mm	53	47	48	46	26	25	22	08544
42 x 35 x 35mm	42 x 35 x 35mm	52	47	47	51	21	15	23	08545
54 x 42 x 42mm	54 x 42 x 42mm	71	60	61	62	34	24	30	08546



Suitable for: All ends for copper

YP28 Tee, both ends branch reduced

Size UK	European	а	b	С	Za	Zc	Order code UK
15 x 15 x 22mm	15 x 22 x 15mm	37	26	21	23	12	08551
15 x 15 x 28mm	15 x 28 x 15mm	44	33	40	30	17	08553
22 x 22 x 28mm	22 x 28 x 22mm	34	33	40	14	17	08555
22 x 22 x 35mm	22 x 35 x 22mm	51	40	49	32	22	08557
28 x 28 x 35mm	28 x 35 x 28mm	51	39	51	29	23	08558
35 x 35 x 42mm	35 x 42 x 35mm	60	47	57	32	9	08559



Suitable for: All ends for copper

YP29 Female tee

Size UK	European	а	b	С	Za	Order code UK
		25				08570
22mm x ³ /4" x 22mm	22mm x 22mm x ³ /4"	32	35	28	13	08572

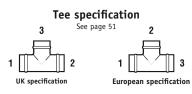


Suitable for: Copper end and branch x BSP parallel female end

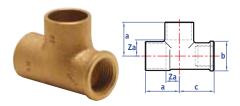
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Integral lead-free solder ring fittings for copper



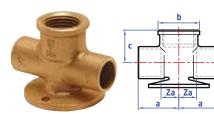
YP29R Female tee										
Size UK	European	а	b	С	Za	Order code UK				
22mm x ¹ /2" x 22mm 28mm x ¹ /2" x 28mm 35mm x ¹ /2" x 35mm	22mm x 22mm x ¹ /2" 28mm x 28mm x ¹ /2" 35mm x 35mm x ¹ /2"	31 41 46	28 28 28	27 38 34	12 19 21	08575 08576 08578				

Suitable for: Copper end and branch x reduced female BSP end



YP30 Female tee	:					
Size UK	European	а	b	С	Za	Order code UK
15mm x 15mm x ¹ /2" 22mm x 22mm x ³ /4"		25 33	28 34	22 27	11 14	08585 08587
28mm x 28mm x 1"	28mm x 1" x 28mm	41	42	30	18	08589

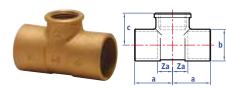
Suitable for: Copper ends x BSP parallel female branch



Za Za

YP30BP Backplate tee									
Size UK	European	а	b	С	Za	Order code UK			
15mm x 15mm x ¹ /2"	15mm x ¹ /2" x 15mm	28	29	26	15	08600			

Suitable for: Copper ends x BSP parallel female branch



YP30R Female tee											
Size UK	European	а	b	С	Za	Order code UK					
15mm x 15mm x ¹ /4"	15mm x ¹ /4" x 15mm	22	20	21	8	08590					
22mm x 22mm x ¹ /2"	22mm x ¹ /2" x 22mm	30	27	25	12	08591					
28mm x 28mm x ¹ /2"	28mm x ¹ /2" x 28mm	34	34	28	12	08592					
28mm x 28mm x ³ /4"	28mm x ³ /4" x 28mm	38	34	23	15	08593					
35mm x 35mm x ¹ /2"	35mm x ¹ /2" x 35mm	38	41	32	11	08594					
35mm x 35mm x ³ /4"	35mm x ³ /4" x 35mm	41	41	36	15	08595					
42mm x 42mm x ¹ /2"	42mm x ¹ /2" x 42mm	44	49	32	13	08596					

Suitable for: Copper ends x reduced female BSP branch

Za

Za

YP35 Air v	ent tee					
Size	а	b	С	Za	Order code	e port
15mm	31	19	35	14	08615	

Suitable for: Copper ends

RV35	Air release	e valve

Size	а	Za	Order code	
15mm	22	6	08620	

Suitable for: Male copper end

YP37 Sweep tee 90°

Size	а	С	Za	Zc	Order code
15mm	30	26	14	12	08630
22mm	36	32	18	14	08631
28mm	56	41	33	19	08632

Suitable for: All ends for copper

YP37R Sweep tee, reduced branch

Size		а	b	с	d	Za	Zc	Zd	Order code
UK	European								UK
22 x 22 x 15mm	22 x 15 x 22mm	33	27	25	33	15	6	20	08640
28 x 28 x 15mm	28 x 15 x 28mm	45	34	33	44	23	11	31	08641

Suitable for: All ends for copper

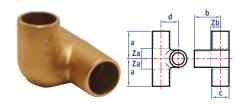
YP40 Offset tee

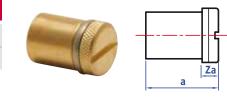
Size	_	а	b	С	d	Za	Zb	Order code
UK	European							UK
15 x 15 x 15mm	15 x 15 x 15mm	25	25	20	21	12	12	08650
22 x 22 x 15mm	22 x 15 x 22mm	33	33	27	27	14	14	08652
22 x 22 x 22mm	22 x 22 x 22mm	30	26	27	24	11	12	08651

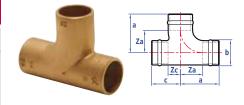
Suitable for: All ends for copper

Q 1 Range overview **2** Product details

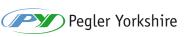
3 Technical data 4 Installation instructions





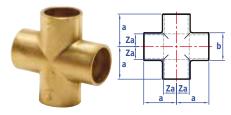


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23

Integral lead-free solder ring fittings for copper



b

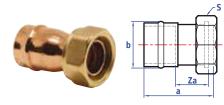
Za

YP50 Cross				
Size	а	b	Za	Order code
15mm	23	22	11	08660
22mm	32	28	13	08661

Suitable for: All ends for copper

YP61 Stop e	end			
Size	а	b	Za	Order code
8mm	14	11	5	08670
10mm	14	13	3	08672
12mm	15	15	3	08674
15mm	16	19	2	08680
22mm	21	26	2	08682
28mm	24	32	2	08684
35mm	32	40	2	08686
42mm	36	48	3	08688
54mm	41	60	2	08690

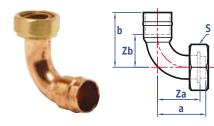
Suitable for: For use on copper tube



YP62 Tap connector

Size	а	b	Za	S	Order code
15mm x ¹ /2"•	37	19	16	24	08700
15mm x ³ /4"	37	19	18	31	08702
22mm x ¹ /2"	43	26	21	24	08703
22mm x ³ /4"	48	26	26	30	08710

Suitable for: Copper x BSP union nut



YP63 Bent tap connector Size S Order code а b Za Zb 15mm x ¹/2" 38 27 33 24 24 08720 22mm x ³/4" 08723 51 46 45 27 31

Suitable for: Copper x BSP union nut

•These items comprise the YPS range.

YP63L Long	bent t	ap co	nnect	or			b
Size	а	b	Za	Zb	S	Order code	ZI
15mm x ¹ /2"	55	31	51	14	24	08724	

Suitable for: Copper x BSP union nut

YP64 Bent un	nion a	dapto	r					
Size	а	b	С	Za	Zc	S	Order code	
22mm x 1" 28mm x 1 ¹ /4"	63 51	26 33	52 54	55 39	33 32	37 46	08732 08734	

Suitable for: Copper x BSP union nut

YP65 Bent male union co	nnecto	r		
Size a b	C Z	Zc	s c	Order code
15mm x ¹ /2" 82 19	41 2	26	30	08751
22mm x ³ /4" 98 26	52 3	32	37	08752
28mm x 1" 91 33	53 3	30	46	08753
35mm x 1 ¹ /4" 107 40	86 6	50	54	08754
42mm x 1 ¹ /2" 128 47	77 4	47	65	08755

Suitable for: Copper x BSP taper male thread

YP65R Bent boiler union

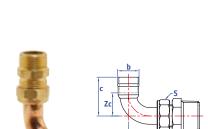
Size	а	Ь	С	Zc	S	Order code	
15mm x 1"	107	26	50	31	37	08780	

Suitable for: Copper x BSP taper male thread

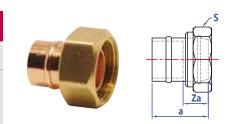
YP68 Union adaptor

Size	а	Za	S	Order code
15mm x ³ /4"	28	5	30	08783
22mm x 1"	35	13	37	08784
28mm x 1 ¹ /4"	36	1	46	08786

Suitable for: Copper x BSP union nut



Zc



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Integral lead-free solder ring fittings for copper





YP68CL Unio	on adap	otor		
Size	а	Za	S	Order code
15mm x ³ /4"	21	-	32	08800
22mm x 1"	25	7	37	08801
28mm x 1 ¹ /4"	30	4	46	08802

Suitable for: Copper x BSP union nut





YP68DZR Straight union adaptor Size S Order code а Za

30

5

22mm x 1"	35	13	37	

28

Suitable for: Copper x BSP union nut

15mm x ³/4"

YP68CLDZR	Union	adapt	or:	
Size	а	Za	S	Order code
15mm x ³ /4"	21	-	32	09035
22mm x 1"	25	7	37	09036

09025

09026

Suitable for: Copper x BSP union nut

YP68FF Flat	faced	union	adap	tor
Size	а	Za	S	Order code
15mm x ³ /4"	17	3	30	08796
22mm x 1"	21	2	37	08797

Suitable for: Copper x BSP union nut





YP68N	1 Meter	union	con	nector		
<i>c</i> [.]			-	~	~	1

Size	а	Za	S	Order code
22mm x ³ /4"	48	24	35	08795

Suitable for: Copper x BSP union nut





YP69 Straight male union connector

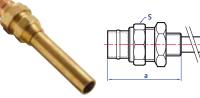
Size	а	Za	S	Order code	
15mm x ¹ /2"	61	46	31	08813	
22mm x ³ /4"	70	48	37	08814	
28mm x 1"	77	54	46	08816	
28mm x 1"	73	46	53	08817	
35mm x 1 ¹ /4"	86	55	65	08818	
54mm x 2"	107	70	82	08819	



Suitable for: Copper x BSP taper male thread

YP69DP Straight male union connector with dip pipe

Size	а	Za	S	Order code
22mm x ³ /4"	66	45	37	08825



Suitable for: Copper end

YP69F Straight female union connector

Size	а	Za	S	Order code	
15mm x ¹ /2"	54	35	30	08833	
22mm x ³ /4"	61	39	37	08834	
28mm x 1"	66	44	46	08835	
35mm x 1 ¹ /4"	69	43	53	08836	
42mm x 1 ¹ /2"	78	47	66	08837	
54mm x 2"	93	56	82	08838	



Suitable for: Copper x BSP parallel female thread

YP69P Straight male union connector

Size	а	Za	S	Order code
15mm x ¹ /2"	56	33	30	08840
22mm x ³ /4"	66	45	37	08841
28mm x 1"	72	36	46	08842
67mm x 2 ¹ /2"	96	48	96	08850

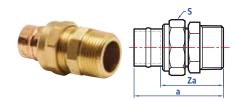


Suitable for: Copper x BSP parallel male thread

YP69R Straight boiler union

Size	а	Za	S	Order code	
22mm x 1"	72	51	37	08855	

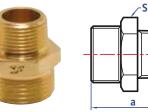
Suitable for: Copper x BSP taper male thread







Integral lead-free solder ring fittings for copper



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YP70 Male r	nipple		
Size	а	S	Order code
¹ /2" × ³ /8"	31	23	08871
³ /4" × ¹ /2"	39	28	08872
1" x ³ /4"	41	33	08873
1 ¹ /4" × 1"	46	44	08874

Suitable for: Union thread x BSP taper male thread

YP70P Male	e nipple			
Size	а	Za	S	Order code
³ /4" × ¹ /2"	30	20	26	08880
1" x ³ /4"	34	23	34	08881

Suitable for: Union thread x BSP parallel male thread

YP71 Male	nipple		
Size	а	S	Order code
1/2"	32	22	08885
3/4"	40	27	08886
1"	44	34	08887
1 ¹ /4"	40	44	08888

Suitable for: Union thread x BSP taper male thread

YP72 Femal	e nippl	e	
Size	а	S	Order code
3/4" x 1/2"	31	28	08892
1" x ³ /4"	33	34	08893
1 ¹ /4" × 1"	36	44	08894
$1^{1/2}$ " x $1^{1/4}$ "	43	50	08895
2" x 1 ¹ /2"	45	62	08896
2 ¹ /2" x 2"	48	77	08897

Suitable for: Union thread x BSP parallel female thread



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Za	

YP115 Exte	nsion n	ipple		
Size	а	Za	S	Order code
1/2"	28	16	25	08945
3/4"	33	21	33	08946

Suitable for: Use to give extra length to female ends on YP14, YP15 and YP30



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Heating components

- Manifolds for use in heating systems are compact and cover both linear flow and side entry options
- Intially supplied in small basic units which can be coupled together for larger systems

Manifolds

1481 Linear flow manifold		
Size	Order code	
22 x 8mm	80050	

Suitable for: Capillary socket inlet x four soft copper tube outlets

1483 Linear flow manifold		
Size	Order code	
22 x 10mm	80053	

Suitable for: Capillary socket inlet x four soft copper tube outlets

1486 Linear flow manifold

Suitable for: Capillary socket inlet x six soft copper tube outlets

1491 Side entry manifold

Suitable for: Capillary socket inlet x male end for insertion into fitting x four compression outlets

1495 Side entry manifold		
Size	Order code	

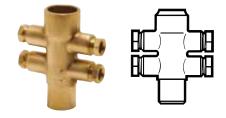
22 x 10mm 80072

Suitable for: Capillary socket inlet x male end for insertion into fitting x two compression outlets











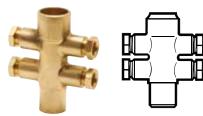


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Heating components



1496 Si	le entry	manifold
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Size	Order code
22 x 10mm	80073

Suitable for: Capillary socket inlet x male end for insertion into fitting x four compression outlets



1478A Compression nut	
Order code	
80002	
80003	
	Order code 80002

Suitable for: Side entry manifolds





1478B Compression ring		
Size	Order code	
8mm	80011	
10mm	80012	

Suitable for: Side entry manifolds





1478C Blank nut	
Size	Order code
8mm	80020
10mm	80021

Suitable for: Blanking of outlets. Not required on side entry manifolds

WM8 Micr	afold - 8 outlets	See 2 o
Size	Order code	
22 x 10mm	87102	
Suitable for: M	etric male copper ends x 10mm compression outlets	
WM12 Mic	crafold - 12 outlets	
Size	Order code	
28 x 10mm	87101	
Suitable for: M	etric male copper ends x 10mm compression outlets	
WM18 Mic	crafold - 18 outlets	
Size	Order code	
28 x 10mm	87100	
Suitable for: M	etric male copper ends x 10mm compression outlets	
WM20 Bla	nking plug	
Size	Order code	
10mm	87155	
Suitable for: Se	elf sealing	
WM21 Rec	ducing spacer with olive	
Size	Order code	
10 x 8mm	87156	
Cultarly from A		

Suitable for: Adapting 10mm compression fittings to 8mm tube



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Waste fittings



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YP6W Reduce	er
Size	Order code
35 x 28mm	54001
42 x 35mm	54002
54 x 35mm	54003
54 x 42mm	54004

Suitable for: Shorter socket of waste fittings

Order code

54006

54035

Suitable for: Connecting copper waste pipe to screwed outlet

YP62W Waste connector





1		YP323	Copper bend 91.5°
$ \searrow $	-	Size	Order code
		35mm	54033
		42mm	54034

Size

54mm

35mm x 1¹/4"

Suitable for: Copper x copper



YP359 Pitcher tee 88.5° equal ends		
Size	Order code	
35mm	54055	
42mm	54056	
54mm	54057	

Suitable for: Branch for connection to outlet of tee trap



YP359R Pitcher tee 88.5° equal ends		
Size	Order code	
42 x 42 x 35mm	54058	
54 x 54 x 35mm	54060	
54 x 54 x 42mm	54059	

Suitable for: Branch reduced, for connection to outlet of trap tee

- Vorkshire waste are available for standard domestic and commercial water systems such as basins, baths, sinks and other sanitary appliances
- Available with standard flush or with a polished finish
- Available in sizes from 28-54mm

YP363 Pitcher tee 88.5° with screwed cleaning plug

Size	0
35mm	
42mm	
54mm	





Suitable for: Branch for connection to outlet of trap tee

YP363R Pitcher tee 88.5°			100
Size	Order code		
42 x 42 x 35mm	54070		
54 x 54 x 35mm	54071		
54 x 54 x 42mm	54072		~

Suitable for: Branch reduced, for connection to outlet of trap tee

YP2001 Copper P trap 85° outlet 38mm (1¹/2["]) seal Size Order code 35mm x 1¹/4" 54201 42mm x 11/2" 54202

Suitable for: Adjustable for depth and direction of outlet

YP2002 Copper P trap 85° outlet 76mm (3") seal

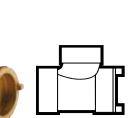
Size	Order code	
35mm x 1 ¹ /4"	54205	
42mm x 1 ¹ /2"	54206	

Suitable for: Adjustable for depth and direction of outlet











Pipe clips and brackets







107M Metric single pipe ring – bright dipped finish		
Size	Order code	
15mm tapped 10mm	72602	
22mm tapped 10mm	72603	
28mm tapped 10mm	72604	



110 Hospi	tal bracket – bright	dipped finish
Size	Order code	
15mm	72536	
22mm	72537	
28mm	72538	



111M Metric	male backplate	
Size	Order code	
12 - 108mm	72621	

For use with pipe rings 107M

116M Metric female backplate

Size	Order code
12 - 108mm	72622

For use with pipe rings 107 and 107DM. Tapped 10mm and suitable for all ring sizes

Pipe joist clips

SPJ Single –	two part clip	
Size	Order code	
15mm	72640	
22mm	72641	



DPJ Double	e – two part clip	
Size	Order code	
15mm	72642	
22mm	72643	

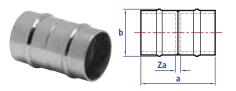


DPJM Mixed dou	ble – two part clip		
Size	Order code		$\Box \cap \bigcirc$
15mm + 22mm	72644		

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Chrome plated fittings



YP1CP Strai	ight cou	pling		
Size	а	b	Za	Order code
8mm	20	11	2	08002
12mm	26	15	2	08006
15mm	30	19	2	08011
22mm	40	26	2	08021
28mm	47	33	3	08031

Suitable for: Copper x copper

YP1IMCP Sli	p adap	tor co	uplin]	
Size	а	b	Za	Order code	
³ /4" x 22mm	41	27	2	08051	

Suitable for: Copper x copper

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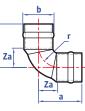
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YP6CP Redu	cer		
Size	а	Za	Order code
22 x 15mm	41	26	08201
28 x 15mm	48	33	08203
28 x 22mm	49	30	08205

Suitable for: Large male end for insertion into fitting x female fitting





YP12CP Elbo	ow				
Size	а	b	Za	r	Order code
8mm	18	11	8	10	08267
12mm	25	16	13	14	08271
15mm	26	19	12	12	08281
22mm	36	27	16	26	08291
28mm	41	32	19	34	08301

Suitable for: Copper x copper



Suitable for: Copper x BSP parallel female thread





- Aesthetic appeal or, for maximum effect, order with a polished finish to special order. Ideal for use where products are on show, including kitchens and bathrooms
- Available in size from 6-54mm
- Manufactured from Copper or Copper alloy



Size	а	b	с	Za	Zc	Order code	
15mm	24	19	24	10	10	08451	
22mm	32	26	32	13	13	08461	
28mm	38	33	38	16	16	08463	

Suitable for: All ends for copper

YP25CP Tee, reduced branch							
Size UK	European	а	b	С	Za	Zc	Order code UK
22 x 22 x 15mm	22 x 15 x 22mm	28	26	27	9	13	08491

Suitable for: All ends for copper

YP26CP Tee, one end reduced									
Size UK	European	а	b	С	d	Za	Zc	Zd	Order co UK
22 x 15 x 22mm	22 x 22 x 15mm	32	26	36	32	14	22	13	08511

Suitable for: All ends for copper

YP27CP Tee, one end and branch reduced

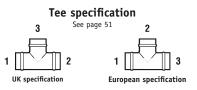
Size UK	European	а	b	С	d	Za	Zc	Zd	Order code UK
22 x 15 x 15mm	22 x 15 x 15mm	33	26	33	28	19	11	14	08531

Suitable for: All ends for copper

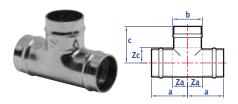
YP28CP Tee, both ends reduced

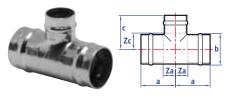
Size UK	European	а	b	С	Za	Zc	Order code UK	
15 x 15 x 22mm	15 x 22 x 15mm	37	26	21	23	12	08552	

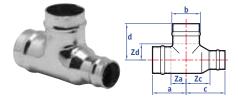
Suitable for: All ends for copper

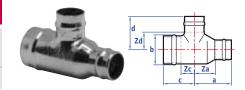


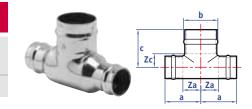






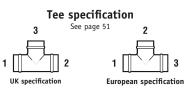








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YORKSHIRE) Solder ring solutions

Chrome plated fittings



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YP61CP Sto	op end			
Size	а	b	Za	Order code
15mm	16	19	2	08681
22mm	21	26	2	08683
28mm	24	32	2	08685

Suitable for: Use with copper tube



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YP62CP Straight tap connector							
Size	а	b	Za	S	Order code		
15mm x ¹ /2"	37	19	16	24	08701		
22mm x ³ /4"	48	26	26	30	08711		

Suitable for: Copper x union nut



YP63CP Bent tap connector							
Size	а	b	Za	Zb	S	Order code	
15mm x ¹ /2"	38	27	33	24	24	08721	

Suitable for: Copper x union nut

YORKSHIRE) Solder ring solutions

Accessories and sundries

An extensive selection of sundries and accessories complements the Yorkshire range, providing the installer with the means to use Yorkshire integral solder ring fittings most effectively

Accessories

130 Yorkshire flux				
Size	Order code			
100g carton 500g carton	70212 70213			
WRAS approved	70215			

131 Traditional craftsman's flux							
Size	Order code						
100g carton	70214						
500g carton	70215						
Grease based flux. WRAS approved							

145 Cleanir	ng pads	
Size	Order code	
Pack of 2	71070	

146	Steel	wool

Size	Order code
450g/1lb pack	21060
16 pad pack	71060

CM4 Heat resistant mat

 Size
 Order code

 300mm x 250mm
 21063

SK2 3 Ended key

 Size
 Order code

 15 - 28mm
 73190

For lockshield stopvalves

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Accessories and sundries





For lockshield stopvalves



VK3 3 Endeo	d key	
Size	Order code	
15 - 54mm	71544	

For gunmetal lockshield gate valves



FW1 Tap connector washers			
Size	Order code		
3/8"	71220		
³ /8" 1/2"	73050		
3/4"	73051		



FW2 Union connector washers		
Size	Order code	
3/4"	71310	
1"	71223	
1 ¹ /4"	71311	

Sundries



450 Brass plug		
Size	Order code	
1/8"	72625	
1/4" 3/8"	72626	
3/8"	72627	

Hexagonal head. BSP parallel male thread

Size Order code 1/2" 72628 3/4" 72629 1" 72630	450DZR DZR plug			
1/2" 72628 3/4" 72629 1" 72630	Size	Order code		
³ /4" 72629 1" 7 2630	1/2"	72628		
1" 7 2630	3/4"	72629		
	1"	7 2630		



456DZR DZR backnut		
Size	Order code	
1/2" 3/4"	70102 70103	



BSP thread with flange

464DZR Hexagonal DZR bush		
Size	Order code	
1/2" x 1/4"	72696	
1/2" x 3/8"	72697	
$3/4" \times 1/2"$	72700	
1" x 1/2"	72702	
1" x ³ /4"	72703	
1 ¹ /4" × 1"	72706	

Screwed inside and outside, BSP taper male thread

470DZR Blank DZR hexagonal nut			
Size	Order code		
1/2"	70171		
1/2" 3/4" 1"	70172		
1"	70173		

BSP thread. Supplied with a washer

472 Hexagonal brass nut

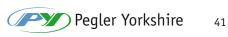
Size	Order code	
³ /4" 1 ¹ /2"	70013	
	70016	
2"	70017	
2 ¹ /2"	70018	

BSP thread. Suitable for use on union fittings in place of standard









YORKSHIRE) Solder ring solutions

General high duty

Range of capillary fittings are suitable for use on air conditioning services, vacuum, refrigeration and cryogenic applications; vehicle braking systems; and Nitrogen and Oxygen gas lines. Available in sizes from 6-54mm



b		
	Za	

Za

1GHD Straight coupling
Size a b Za Order code
8mm 16 12 2 56002
12mm 18 16 2 56004
15mm 15 19 2 56005
22mm 20 27 2 56007
28mm 23 34 2 56008
35mm 27 42 2 56009
42mm 31 50 2 56010
54mm 38 64 2 56011

Suitable for: Copper x copper

1RGHD Redu	ucing co	ouplir	ng	
Size	а	b	Za	Order code
12 x 8mm	18	16	2	56029
15 x 8mm	18	19	3	56032
15 x 12mm	17	19	2	56034
22 x 15mm	19	27	3	56038
28 x 22mm	23	34	2	56042

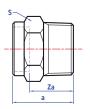
Suitable for: Copper x copper

2GHD Straight female connector

Size	а	Za	S	Order code
8mm x ¹ /4"	25	2	19	56081
15mm x ¹ /2"	29	3	27	56084
22mm x ³ /4"	31	2	32	56086
28mm x 1"	37	2	41	56087

Suitable for: Copper x BSP parallel female thread





3GHD Straight male connector

Size	а	Za	S	Order code
8mm x ¹ /4"	24	17	17	56102
15mm x ¹ /2"	29	23	23	56105
22mm x ³ /4"	34	25	28	56107
28mm x 1"	39	28	36	56108
42mm x 1 ¹ /2"	50	35	55	56110
54mm x 2"	55	37	66	56111

Suitable for: Copper x BSP taper male thread

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6GHD Reducer

Size	а	Za	Order code
8 x 6mm	12	4	56134
12 x 8mm	10	3	56137
15 x 8mm	10	3	56140
15 x 12mm	10	2	56142
22 x 15mm	11	4	56147
28 x 15mm	20	13	56150
28 x 22mm	13	3	56152
35 x 28mm	14	3	56156
42 x 28mm	23	12	56160
42 x 35mm	17	4	56161
54 x 28mm	28	18	56163
54 x 42mm	20	5	56165



Suitable for: Larger end male copper for insertion into fitting x female copper

7GHD Adaptor

Size	а	S	Order code	
15mm x ¹ /2"	34	28	56199	

Suitable for: Male copper for insertion into fitting x BSP parallel female thread

11GHD Union coupling

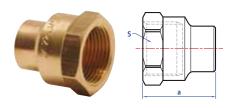
Size	а	Za	S	Order code
8mm	40	25	22	56249
12mm	49	33	27	56251
15mm	51	37	32	56252
22mm	58	39	41	56254
28mm	63	41	48	56255
35mm	70	44	55	56256
42mm	75	45	65	56257

Suitable for: Copper x copper

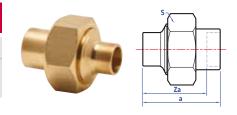
11SGHD Street union coupling

Size	а	Za	S	Order code
12mm	45	37	27	56270
15mm	45	38	32	56271

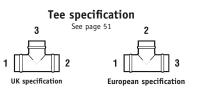
Suitable for: Female copper x male copper for insertion into fitting







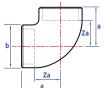




YORKSHIRE) Solder ring solutions

General high duty





12GHD Elboy	W			
Size	а	b	Za	Order code
8mm	15	12	8	56289
12mm	18	16	10	56291
15mm	20	20	13	56292
22mm	25	28	16	56294
28mm	32	35	21	56295
35mm	37	43	24	56296
42mm	41	51	26	56297
54mm	55	65	37	56298

Suitable for: Copper x copper

	+	[])
2- 35 HD 4	a Za		
		Za	_ Za

24GHD Equa	al tee			
Size	а	b	Za	Order code
8mm	15	12	8	56336
12mm	18	17	10	56338
15mm	20	20	13	56339
22mm	26	28	16	56341
28mm	32	35	21	56342
35mm	37	43	25	56343
42mm	41	51	27	56344
54mm	55	66	37	56345

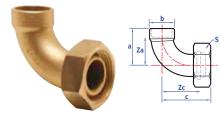
Suitable for: All ends for copper





61GHD Sto	p end		
Size	а	b	Order code
15mm	12	19	56470

Suitable for: Use on copper tube

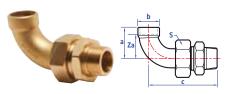


64GHD Bent union adaptor								
Size	а	b	С	Za	Zc	S	Order code	
8mm x ³ /8"	26	12	32	19	23	22	56485	
12mm x ¹ /2"	34	16	40	26	30	27	56487	
15mm x ³ /4"	33	20	48	26	41	31	56488	
22mm x 1"	40	27	53	30	40	41	56490	
28mm x 1 ¹ /4"	48	35	66	38	54	48	56491	

Suitable for: Copper x BSP union nut

65GHD Bent male union connector

Size	а	b	С	Za	S	Order code
15mm x ¹ /2"	34	20	74	27	32	56510
22mm x ³ /4"	41	28	82	31	41	56512
28mm x 1"	48	35	102	38	48	56513



Suitable for: Copper x BSP taper male thread

68GHD Straight union adaptor

Size	а	Za	S	Order code	
6mm x ¹ /4"	19	11	19	56535	
8mm x ³ /8"	23	15	22	56536	
12mm x ¹ /2"	30	22	27	56538	
15mm x ³ /4"	31	24	32	56539	
22mm x 1"	36	26	41	56541	
28mm x 1 ¹ /4"	39	28	48	56542	
35mm x 1 ¹ /2"	43	29	55	56543	



S-		
-		-
	Za	
	- a	

Suitable for: Copper x BSP taper male thread

69GHD Straight male union connector

Size	а	Za	S	<i>S1</i>	Order code	
8mm x ¹ /4"	44	37	22	19	56558	
12mm x ³ /8"	54	46	27	22	56560	
15mm x 1 /2"	59	52	32	27	56561	
22mm x ³ /4"	69	60	41	36	56563	
28mm x 1"	76	65	48	46	56564	
35mm x 1 ¹ /4"	87	74	55	50	56565	
42mm x 1 ¹ /2"	93	78	66	60	56566	



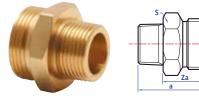


Suitable for: Copper x BSP taper male thread

70GHD Male hexagon nipple

Size	а	Za	S	Order code
³ /8" × ¹ /4"	27	16	19	56597
1/2" x 3/8"	31	19	22	56598
³ /4" x ¹ /2"	35	20	27	56599
1" x ³ /4"	42	27	37	56600
1 ¹ /4" x 1"	46	27	46	56601

Suitable for: BSP union thread x BSP taper male thread 60° cone







General high duty



1	s	A	

70PGHD Ma				
Size	а	Za	S	Order code
³ /8" × ¹ /4"	23	15	19	56611
1/2" x $3/8$ "	29	19	22	56612
³ /4" x ¹ /2"	30	20	27	56613
1" x ³ /4"	37	26	36	56614
1 ¹ /4" × 1"	40	27	46	56615

Suitable for: BSP union thread x BSP parallel male thread 60° cone

Accessories







130GHD Hi	gh duty flux	
Size	Order code	
500g tub	21068	

N165 Silve		
Size	Order code	
250g reel	71157	

N166 Silver alloy brazing rods					
Size	Order code				
3mm x 600mm	71175				

YORKSHIRE) Solder ring solutions Tube compatibility and applications

Yorkshire integral solder ring capillary fittings are suitable for jointing copper tube, which must meet the requirements of BS EN 1057.

BS EN 1057 Specification for copper and copper alloy - seamless round copper tubes for water (and gas) in sanitary and heating applications. BS EN 1057 includes specified temper conditions (material strength) expressed as an "R" number. Quite simply, the higher the number, the harder the material. As a result, tube diameter, wall thickness, length and the material temper must all be specified for full product designation.

R220 Annealed condition with a tensile strength of 220N/mm2 supplied in coils and suitable for connection by push-fit, capillary and compression fittings. Can be bent with suitable bending tools.

R250 Half hard condition with a tensile strength of 250N/mm2 supplied in straight lengths and suitable for connection by push-fit, press-fit, capillary and compression fittings. Can be bent with suitable bending tools.

R290 Hard condition with a tensile strength of 290N/mm2 supplied in straight lengths suitable for connection by push-fit, press-fit, capillary and non-manipulative compression fittings. Not suitable for bending. The specifications of copper tube compatible with Yorkshire integral solder ring fittings are detailed in Table 1. Yorkshire General High Duty fittings are also compatible with high duty copper tubes, the use of which will enable maximum system temperature and pressure performance.

Imperial copper tube

Yorkshire integral solder ring fittings with metric or BSP ends are not compatible with imperial copper tube. However, the Yorkshire range includes a number of imperial x metric adaptors, which are specifically designed for the purpose of connecting to imperial copper tube found in an existing installation.

Stainless steel tube

The use of Yorkshire integral/solder ring fittings with stainless steel tube is not recommended.

BS EN 1057 COPPER TUBE COMPATIBLE WITH YORKSHIRE INTEGRAL SOLDER RING FITTINGS AND VALVES

Outside					Wall thickness	;		
diameter	0.6mm	0.7mm	0.8mm	0.9mm	1.0mm	1 . 2mm	1.5mm	2.0mm
6mm	R220/R250		R220/R250					
8mm	R220/R250		R220/R250					
10mm	R250	R220	R220/R250					
12mm	R250		R220/R250					
15mm		R250			R220/R250			
22mm				R250		R220/R250		
28mm				R250		R220/R250		
35mm					R290	R250	R250	
42mm					R290	R250	R250	
54mm					R290	R250		R250
64mm								
67mm						R250/R290		R250



YORKSHIRE) Solder ring solutions Working temperatures and pressures

Yorkshire general range fittings

Yorkshire integral solder ring fittings contain a tin/copper lead-free solder (BS EN 29453 Alloy number 23 Sn99Cu1) with a melting range of 227- 235°C. Jointing temperatures can be easily reached using a conventional heat source such as a propane or butane torch. The Yorkshire general range is designed for sustained operation at the service temperatures and pressures shown in Table 1.

Yorkshire General High Duty fittings

Yorkshire General High Duty fittings are designed to joint copper tubes to BS EN 1057. However, a GHD installation will achieve maximum performance (shown in Table 3) when used with high duty copper tube in applications not subject to classification society requirements.

When assembled with copper tube to BS EN 1057, the service temperatures and pressures of Yorkshire General High Duty fittings are limited by the specification of annealed tube used.

Heating components - manifolds

Manifolds used in heating systems are suitable for use up to a maximum working pressure of 6 bar at 110°C. When used in applications other than heating systems, Yorkshire manifolds perform to the same temperature and pressure ratings as Yorkshire Potable general range fittings. Engineering Practice (S.E.P.) under the Pressure Equipment Directive (P.E.D.) 1999.

Achieving low temperatures

For products used in water systems, working temperatures of less than 4°C can only be achieved if antifreeze is added to the system. Antifreeze must not be added to potable water systems.

Table 1

Yorkshire general range performance when correctly assembled with copper tube to BS EN 1057								
	Service temperature							
	Min , Max							
Size	-40°C	30°C	65°C	110°C				
6mm to 54mm 67mm	16bar 10bar	16bar 10bar	10bar 6bar	6bar 4bar				

Table 2

Yorkshire General High Duty performance when correctly assembled with high duty tube the appropriate specificati

to the appropriate specification								
	Service temperature Min Max -196°C 150°C 175°C 200°C							
Size								
6mm 8mm 10mm to 12mm 15mm to 54mm	242bar 202bar 158bar 69bar	242bar 202bar 158bar 69bar	151bar 128bar 99bar 43bar	61bar 51bar 40bar 17bar				

Pressure Equipment Directive (PED)

Since 30th May 2002 most pressure equipment and assemblies on the market in the United Kingdom must comply with the Pressure Equipment Directive (P.E.D.) 1999. Fittings are exempt from the P.E.D. unless they are incorporated into pressure equipment such as pressurised storage containers, heat exchangers, shell and water tube boilers. This means that all Yorkshire fittings are exempt.

For a detailed explanation please visit www. pegleryorkshire.co.uk/technical.cfm

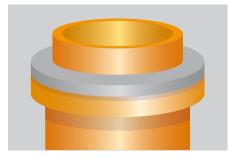
Gas families

There are three gas families					
1st Family	Manufactured gas				
2nd Family	Natural gas				
3rd Family	LPG, compressed propane and butane				

YORKSHIRE) Solder ring solutions Performance and equipotential bonding

Washers

Where tap connectors or other fittings are assembled with washers, service temperatures must not exceed 100°C. Washers are not suitable for use on gas service pipelines.



Equipotential Bonding

It is the installers duty to ensure all metallic pipework systems comply with the equipotential bonding requirements of the current edition of the IEE electrical wiring regulations (BS 7671:2001).

All Yorkshire fittings provide electrical continuity when the joint has been completed with copper tube.

After all plumbing work has been completed, always ensure continuity checks are conducted by a qualified electrician in accordance with regulations.





YORKSHIRE) Solder ring solutions System design considerations and tube expansion

Here are details of some of the specific design considerations it is important to take account of when designing and installing pipework systems containing Yorkshire integral solder ring fittings.

Thermal movement

Thermal movement is major consideration when designing and installing plumbing and heating systems and should be taken into account. Pipework systems expand and contract with changes in temperature. If they are fixed too rigidly and their movement restricted the installation will be subject to stress. Stress concentrations between "fixed points" - typically found at radiators, valves and other fittings - should be avoided wherever possible.

Correct anchoring

Always ensure the free length of tube between the branch of the tee and the first anchor point (bracket or radiator valve) is long enough to allow normal thermal movement. Not doing this can lead to installation failure.

Expansion of copper tube

Copper has a coefficient of linear expansion of 17 x 10⁻⁶/°C. For example, a 10 metre length of copper tube carrying hot water at 60°C will increase in length by almost 7mm when heated from 20°C. Assuming that temperature cycling of the system is 20°C, there will be a continuous cycle of expansion and contraction of 3.4mm. Refer to table (below).

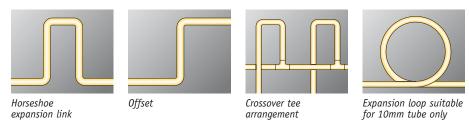
Pipeline supports

Pipelines should always be assembled so that the joints are under neutral or compressive stress. Clipping to support the assembled pipeline is essential and tube manufacturer's recommendations should be adhered to. Pegler Yorkshire offers a wide range of

pipe clips and brackets to ensure safe and secure installations. Pipe joist clips are also available and are designed to protect pipework against accidental piercing when nailing or screwing down floorboards. For the maximum spacing of supporting brackets refer to the table (below).

Maximum spacing of support brackets for internal fixing of copper tube to BS EN 1057 R250 and R290							
Size	Wall thickness	Horizontal pitch	Vertical pitch				
6mm	0.6mm	0.40m	0.60m				
8mm	0.6mm	0.60m	0.90m				
10mm	0.6mm	0.80m	1.20m				
12mm	0.6mm	1.00m	1.50m				
15mm	0.7mm	1.20m	1.80m				
22mm, 28mm	0.9mm	1.80m	2.40m				
35mm, 42mm	1.2mm	2.40m	3.00m				
54mm	1.2mm	2.70m	3.00m				
67mm	1.2mm	3.00m	3.60m				

Techniques for expansion stress relief



COPPER TUBE EXPANSION										
Temperature	iture Tube length									
change	3m	4m	5m	бт	7 <i>m</i>	8m	9m	10m	12m	25m
10°C	0.5mm	0.7mm	0.9mm	1.0mm	1 . 2mm	1 . 4mm	1 . 5mm	1 . 7mm	2.0mm	4.3mm
20°C	1.0mm	1.4mm	1.7mm	2.0mm	2 . 4mm	2 . 7mm	3.0mm	3 . 4mm	4.0mm	8 . 5mm
30°C	1 . 5mm	2.0mm	2.6mm	3.1mm	3.6mm	4 . 1mm	4 . 6mm	5.1mm	6.1mm	13.0mm
40°C	2.0mm	2 . 7mm	3 . 4mm	4.1mm	4 . 8mm	5 . 4mm	6.1mm	6 . 8mm	8.2mm	17.0mm
50°C	2 . 6mm	3 . 4mm	4 . 3mm	5.1mm	6.0mm	6 . 8mm	7.7mm	8.5mm	10.2mm	21.0mm
60°C	3 . 1mm	4.1mm	5.1mm	6.1mm	7 . 1mm	8 . 2mm	9.2mm	10.2mm	12 . 2mm	26.0mm
70°C	3 . 6mm	4 . 8mm	6.0mm	7.1mm	8.3mm	9 . 5mm	10.7mm	11 . 9mm	14 . 3mm	30.0mm
80°C	4 . 1mm	5 . 4mm	6 . 8mm	8.2mm	9.5mm	10 . 9mm	12 . 2mm	13 . 6mm	16 . 3mm	34.0mm
90°C	4 . 6mm	6.1mm	7.7mm	9.2mm	10.7mm	12 . 2mm	13 . 8mm	15 . 3mm	18.4mm	38.0mm
100°C	5.1mm	6 . 8mm	8 . 5mm	10.2mm	11 . 9mm	13.6mm	15 . 3mm	17.0mm	20 . 4mm	43 . 0mm

For all Yorkshire installations, we recommend you adhere to the insulation requirements for copper tube as specified by The Water Supply (Water Fittings) Regulations 1999. These can be downloaded from www.hmso.gov.uk.

Phenolic foam

When using rigid phenolic foam (or other thermal insulation) to lag pipework, always remember to refer to the lagging manufacturer's fixing instructions. To avoid the risk of external corrosion of pipework, the European Phenolic Foam Association recommends that such insulation products be installed with a moisture barrier, such as Densopaste or a plastic covering applied by the tube manufacturer. If you need to add a barrier product, we recommend that all Yorkshire fittings are fully installed and are completely coated before these are applied.

Covered pipework

Making provision for thermal movement is vital where pipe-work is installed under screed or plaster, or passes through brick or blockwork. The preferred practice is to pass tubes and pipes through sleeves or conduits or to lay them in ducts surrounded by loose, non-rigid material such as vermiculite or glass wool. For further information, consult the standard BS 6700.

Pipework accessibility

It's wise to take advice from the local water authority when it comes to pipework accessibility.

Chemicals

Some contracts may require the use of proprietary chemicals to cleanse and flush pipework before full commissioning. Yorkshire fittings are compatible with a selection of products – contact us for a list.

Fluxes

Yorkshire Flux, Traditional Craftsman's Flux and Degussa H high duty flux are subject to the requirements of the Control of Substances Hazardous to Health (COSHH) regulations. COSHH sheets are available to download from our website, www.pegleryorkshire.co.uk

Soldering fluxes do not support microbiological growth in potable water

supplies and their residues are non-corrosive. Fluxes prevent oxidisation at the Copper tube during soldering. This allows the molten solder to 'wet' the parent metals, creating a true metallurgical bond. Efficient fluxes also ensure that the maximum strength of the joint can be achieved by adding the distribution of the solder over the whole jointing surface.

Traditional Craftsman's Flux maintains its consistency over a long period of time and can be used with all types and sizes of soft solder fittings for applications including gas, and is char-resistant to normal heating levels of 250°C.

Yorkshire Flux, like Traditional Craftsman's, Yorkshire Flux will maintain it's consistency and can be used with all types and sizes of soft solder fittings. However, it must not be used for gas applications.

Degussa H ready-mixed paste is for brazing copper and copper alloys, such as Pegler Yorkshire General High Duty fittings.

Connectors



Male connectors

Yorkshire male connectors have threads to ISO 7/EN 10226-1. Inert jointing compounds or PTFE tape should be applied to taper threads and good quaulity jointing washers should be used with parallel threaded fittings. All Yorkshire male ended fittings should only be used with soldered joints.

Female connectors

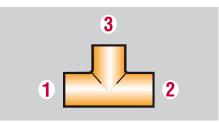


Yorkshire female threaded connectors have internal parallel threads to ISO 7/EN 10226-1.

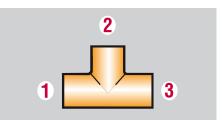
Tee Specification

UK SPECIFICATION

First quote the ends on the run (larger end first) and then the branch.

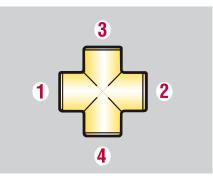


EUROPEAN SPECIFICATION Quote the larger end first, then the branch, followed by the remaining end.

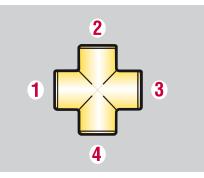


Cross Specification

UK SPECIFICATION



EUROPEAN SPECIFICATION





YORKSHIRE) Solder ring solutions Yorkshire general range installation instructions

The following instructions illustrate just how easy it is to make a Yorkshire integral solder ring joint. The fittings use the principle of capillary action to allow solder to fill the gap between fitting and tube to form a completely reliable joint. These instructions cover Yorkshire general range fittings. Details of how to joint General High Duty fittings can be found on page 54.

Installation tips

Best results are obtained when joints are heated as soon as possible after assembly. After heating and subsequent cooling, flush the system - preferably with hot water. Ensure adequate ventilation during heating.

Any joints not heated during the working day should be dismantled, cleaned and refluxed prior to reassembly.

Preliminaries

Select the correct size of tube and fitting for the job. Ensure that both are clean, in good condition and free from damage and imperfections. If the tube is oval or damaged use a re-rounding tool.

Preparation

1. Cut the tube square using a rotary tube cutter wherever possible. If a hacksaw is used to cut the tube, a fine toothed blade should be used.



2. Remove any burr from the inside and outside of the tube ends using a fine toothed file or a S120 de-burring tool from the XPress accessories range.



3. Clean the inside of the fitting socket and the outside of the tube with a Yorkshire cleaning pad, fine sandpaper or steel wool.



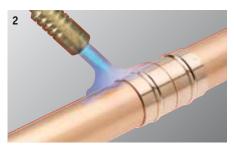
Jointing

1. Using a suitable brush, apply adequate but not excessive - flux to both the outside surface of the tube and the inside surface of the fitting socket. Do not use your finger.

The reliability of soldered joints is greatly influenced by the type of flux used. Yorkshire flux and Traditional Craftsman's flux are specially formulated for jointing copper tubes with Yorkshire integral solder ring fittings. All fluxes are, to some extent, corrosive, but special care should be taken with so-called self cleaning fluxes. Yorkshire flux is not suitable for gas applications.



2. Insert the tube into the fitting until it reaches the tube stop, then wipe off any excess flux. Heat the assembled joint until a complete ring of solder appears at the mouth of the fitting.



3. Allow the joint to cool without disturbance. Clean the joint generally, wiping off any external flux residues. This will prevent unsightly stains or (in extreme cases) corrosion of pipework. Flush out the pipework.



Threaded connectors

A good quality jointing washer should be used when installing fittings with parallel connector threads. Male threaded connectors for jointing pipework to boilers, pumps or backplate elbows have taper male BSP threads and may require the use of jointing materials. A small quantity of inert jointing compound or PTFE tape should be applied to the male thread before installing the fittings.

Female threaded connectors have internal threads to BS EN ISO 228:2003 and should be used for general connections from male threaded fittings to copper pipework.

Jointing compounds should comply with BS 6956 Part 5 and be WRAS listed. PTFE tape for water and general applications should comply with BS 7786 and satisfy

YORKSHIRE) Solder ring solutions Chrome plated installation instructions

the requirements of BS 6920 Part 1. For gas applications, PTFE tape should comply with BS EN 751-3:1997 (formerly BS 6974).

Stopvalves

During the soldering operation, stopvalves should be half open and a damp cloth wrapped around the headwork. The headwork of stopvalves are bonded and sealed to provide maximum reliability.

Slip couplings and tees

If it is necessary to break into existing pipes for repairs or to fit new branches, slip couplings or tees which have no tube stops make the job easier and avoid disturbing the rest of the system.

Adapting imperial to metric with Yorkshire

Occasionally a Yorkshire integral solder ring fitting may need to be connected to an older installation where imperial sized copper tube has been used. If this is the case, simply use a Yorkshire imperial to metric coupling adaptor, one end of which fits on to imperial pipe, and the other on to metric pipe. Adaptors are available in several combinations.

Unmade ends

If an end of a Yorkshire general range fitting is to remain unmade, a short length of correctly sized, uncleaned tube should be inserted into the end(s) to be left unjointed. This section should be kept cool by wrapping a wet rag around it whilst heating the remaining ends.

Taking apart and remaking Yorkshire joints

The re-use of Yorkshire integral solder ring fittings is generally not recommended, as the joints are difficult to disconnect owing to the intermetallic bonding between the solder and the copper of the fitting and tube. However, in some situations, joints can be remade by fluxing the tinned portion of the tube and reinserting this into the fitting. The joint can then be heated and lead-free solder end-fed. If a new tube is to be used, clean and flux the tube before assembly. End feed lead-free solder at the mouth of the socket after reheating.

Using Yorkshire general range fittings with chrome plated copper tube

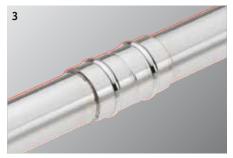
Solder will not bond to chrome plate, meaning the plating needs to be removed from copper tube before a joint is made. The same preliminaries and preparation quidelines apply.

1. For the distance the tube goes into the fitting, remove the chrome plating using a coarse emery cloth, followed by fine sandpaper or Yorkshire cleaning pad.



2. After applying flux, heat the joint in the usual manner.

3. Remove any discolouration of the chromium by washing the fitting with soap and warm water immediately after the joint has cooled.



Local water authority

It's wise to take the advice of the Local Water Authority into account when it comesto pipework accessibility.

Union fittings

Yorkshire union fittings have metal-to-metal cone joints. To avoid leaks, care should be taken to protect the jointing faces from damage. Use a WRAS listed jointing compound or apply a sufficient amount of PTFE tape to obtain completely satisfactory results. Tighten the joint with a spanner.

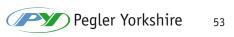
System testing

We recommend all systems are thoroughly tested upon completion. In hydraulic based installations the system may be tested to 1.5 times the working pressure of the system (see tables on page 48 for data). If higher test pressures are required advice should be sought from Pegler Yorkshire.

On completion, compressed air pipeline systems must be properly tested. The system designer and installation contractor must ensure safe methods are selected for system testing which will comply with all current Health and Safety regulations.

This may include testing compressed air lines with fluids or compressed air at a limited pressure, or a combination. In any event we do not recommend the maximum working pressure of the product be exceeded during this procedure.

N.B. The maximum temperature and pressure range in any system is dictated by the component with the lowest performance rating.



YORKSHIRE) Solder ring solutions General High Duty installation instructions

Making a Yorkshire General High Duty joint

The same preliminaries apply as for Yorkshire general range fittings.

Preparation

The preparation of Yorkshire General High Duty fittings differs only slightly to those for Yorkshire general range fittings. Details of these differences are as follows:

1. A hacksaw should be used to cut the tube - a rotary cutter must not be used for this application as it can reduce the diameter of the tube ends.

2. An alumina based paper or cloth can also be used to clean the fitting socket as an alternative to a Yorkshire cleaning pad or fine sandpaper. Steel wool should not be used.

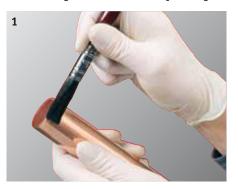
3. General High Duty fittings require the use of the correct flux. We recommend Degussa "H" ready mixed paste, although satisfactory joints can be made using other suitable silver brazing alloy fluxes.

Silver brazing alloy fluxes must be used with care and always in a well ventilated area.

If powder flux is used, this should be mixed with clean water and blended into a creamy paste. Mix the required amount of flux and keep the powder in he container dry, replacing the lid immediately after use. Any excess mixed flux should be discarded.

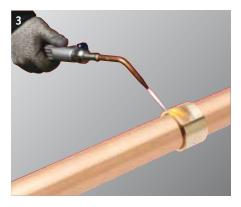
Jointing

1. Using a suitable brush, apply adequate but not excessive - flux to both the outside surface of the tube to a length slightly greater than the socket depth and the inside surface of the fitting socket. Do not use your finger.



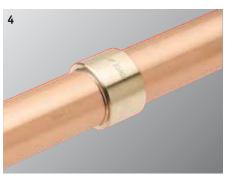
2. Insert the tube into the fitting until it reaches the tube stop, using a twisting action to ensure the spread of flux. Ensure the tubes are correctly lined up and adequately supported – otherwise distortion or cracking may occur when at brazing temperature.

3. Heat the socket and tube gently using an oxy/gas, oxy/acetylene or oxy/propane torch to approximately 700°C – a visible red heat in poor daylight. Use a large, soft, neutral or slightly reducing flame, keep the torch moving, and continue heating until a complete ring of solder appears around the socket mouth - this is proof of a sound joint. Continue to heat generally for a few seconds. Repeat this method for each joint in turn.



If the complete ring of solder does not appear on heating, apply additional flux to the mouth of the socket and end feed the joint with our N165 (Copper coloured) or N166 (Brass coloured) cadmium-free silver brazing alloy, or an equivalent to the compositional requirements of BS EN 1044 AG103 (formerly BS 1845 AG14).

4. Allow the joint to cool without disturbance. Clean the joint generally, wiping off any externalflux residues. Flush out the pipework.



Permanence of GHD joints

Joints made with Yorkshire General High Duty fittings should be regarded as permanent. If the system has to be broken into, fittings such as the 11GHD union coupling should be installed at appropriate points. An alternative is the use of bi-metal Endbraze flanges, in sizes 42mm and 54mm, which will require the end-feeding of solder.

Disconnecting GHD fittings

The use of disconnecting fittings allows sections of the installation to be completed on the workbench, avoiding the need to make joints in difficult places. This prefabrication technique is particularly recommended in sizes from 22mm to 54mm.

GHD union fittings

Union type fittings such as 11GHD, 65GHD and 69GHD have round nose-to-seal joints.

Imperial to metric

Where the layout permits, the most economical way of adapting from imperial to metric is to use the 9GHD.

Yorkshire)

Solder ring solutions Stopvalves, gate valves and plugcocks

4

Yorkshire recognises that different service environments place a variety of demands on pipeline systems. With this in mind, a comprehensive selection of valves to suit both domestic and commercial requirements, from central heating and hot and cold water services to oil lines, steam and gas installations, have been developed. Valves have either solder ring or threaded ends, with the former assembled with the same jointing procedure as the Yorkshire integral solder ring fittings.

Stopvalves

Stopvalves are designed for use wherever the flow of hot or cold water services needs to be controlled or regulated. Yorkshire stopvalves are available in sizes from 15mm to 54mm, and are suitable for use with copper tube to BS EN 1057.

All have gunmetal bodies, with gunmetal, DZR or duplex brass headworks, and are available with combined draincocks and alternative headworks, including Lockshield and easy clean covers.

Lockshield stopvalves can be used where operational access needs to be restricted, for instance on exposed pipe runs. Stopvalves with easy clean covers should be used where the stopvalve is highly visible, particularly where hygiene is important. The combined stopvalve and draining tap enables easy isolation with a draining facility.

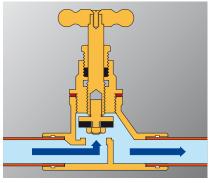
The Pegler Yorkshire stopvalve range is available with union ends allowing easy removal of the valve without the need to disturb fixed pipework. All stopvalves have bonded and sealed headworks to provide maximum reliability.

BS 1010 Part 2 Draw off taps, above ground stopvalves and union ends. BS 1010 stopvalves ends are in accordance with BS EN 1254 Part 1.

BS 2879 Specifcation for draining taps (screw down pattern).

BS 5433 Specification for underground stopvalves for water services.

When correctly assembled with copper tube to BS EN 1057, stopvalves perform to a maximium service temperature Of 30°C at 16 bar.



The stopvalve design incorporates a rubber washer that is screwed down onto a gunmetal seat to provide a seal against mains pressure water.

Gatevalves

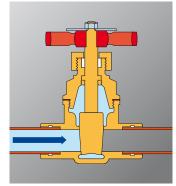
Gate valves are available in wheelhead and lockshield varieties and are manufactured from corrosion resistant materials including gunmetal. Available in sizes from 15mm to 54mm, the gatevalves incorporate high quality PTFE packing, which has hardwearing properties to withstand the effects of harsh service conditions.

A precision made wedge positioned at right angles to the flow direction provides the sealing mechanism and the easy regulation of hot or cold water services with minimal flow restriction.

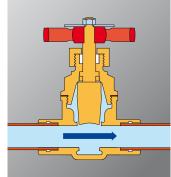
Pegler Yorkshire gate valves are designed for use with copper tube to BS EN 1057 in hot and cold water services, central heating systems, oil lines, steam installations, compressed air lines and certain chemical supply lines, particularly where a low pressure drop is required.

BS 5154 Specification for copper alloy globe, globe stop and check, check and gate valves. Ends are in accordance with BS EN 1254 Part 1.

Gatevalves perform to a maximium service temperature of 110°C at 6 bar when correctly assembled with copper tube to BS EN 1057. Pegler Yorkshire gatevalves also comply with Sound Engineering Practice (S.E.P.) under the Pressure Equipment Directive (P.E.D.) 1999.



In Yorkshire gate valves the primary sealing surfaces are in gunmetal. Flow is controlled by screwing the gate into the valve body.



When the valve is fully open the gate moves up into the headwork to leave the flow unhindered.



YORKSHIRE) Solder ring solutions Stopvalves, gate valves and plugcocks

Plugcocks

Plugcocks are designed for use with copper tube to BS EN 1057 to control the flow of gas in low pressure installations. Manufactured from brass, Yorkshire plugcocks are available in sizes 15mm and 22mm and incorporate an oblong bore.

Variants with a drophead are available for use in restricted spaces or for union outlet connections.

BS 1552 Specfication for manual shut-off valves for use with first and second family gases. Ends are in accordance with BS EN 1254 Part 1.

Pegler Yorkshire plugcocks perform to the service temperatures and pressures indicated in the table.



Pegler Yorkshire plugcock performance for first and second family gases when correctly assembled with copper tube to BS EN 1057
Sanaca tamparatura - MOP 0.35

	Service temperature - MOP 0.35							
Size	Miniumum -10°C	Maxiumium 30°C						
15mm to 22mm	0.35 bar	0.35 bar						





Yorkshire) Notes





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LIT.REF: 880189.1.12



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