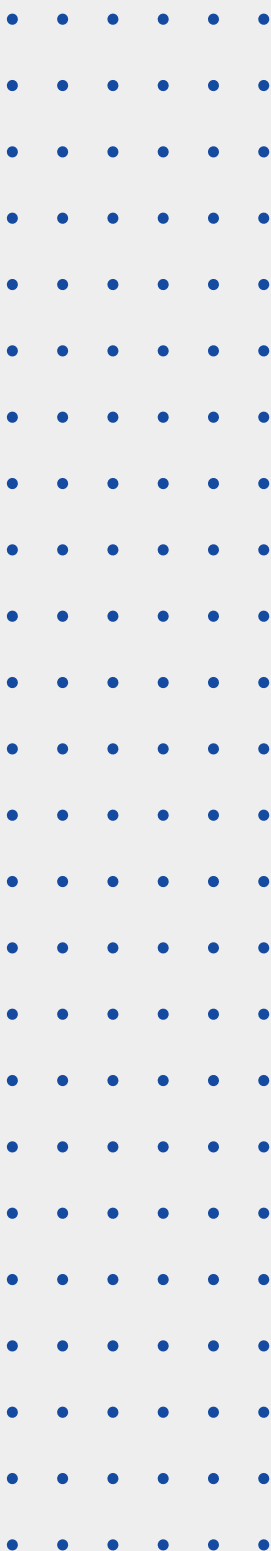


Core values, quality products



# Capillary and Compression Fittings





Welcome to the **CORE** Capillary and Compression Fittings brochure, a guide to the essential copper fittings available by **CORE**. This range of fittings includes End Feed, Solder Ring and Compression fittings.

Our range of fittings includes end feed, solder ring and compression fittings (including DZR), with all fittings fully WRAS approved for use on potable water applications. All testing and fittings conform to EN 1254 standards manufactured within ISO 9001 working conditions, ensuring CORE fittings meet the highest quality standards.



**Disclaimer:** The information within this brochure is believed to be correct at the time of publication; however, the literature is for guideline use only. For complete accuracy, always check the product with a CORE representative. Missing information was either not available or disclosed. It is your responsibility that any product meets the necessary requirements. Any reliance placed upon this information will be totally at the user's risk.

## Customers

**CORE** offers customers a competitively priced, trusted alternative to other branded products across various HVAC categories. With Smith Brothers' ethos of Service and Value (since 1897) applied to every business area, including **CORE**, customers can rely on its quality, regardless of application.

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## Staff

Whether customer contact occurs at the trade counter, with internal sales or through external sales managers, all staff understand the preferred product choice for our customers. With dedicated staff members employed to ensure product quality with thorough auditing and monitoring systems, SBS staff can trust **CORE** products will service their customers with the utmost confidence.

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## Suppliers

The manufacturers selected within the **CORE** range commit to Smith Brothers that they have trust in their products and are invested in growing market share, while continuing to develop their product at every opportunity. Through constant 360-degree feedback and appraisal, product quality and relationships will strengthen over time.

## ONFIDENCE

Have total confidence that when Smith Brothers put their name on a **CORE** product, it offers true quality and value that only comes with over 125 years of expertise.

## PPORTUNITY

Value engineer projects without compromising on quality; **CORE** offers excellent opportunities for our customers.

## ELIABILITY

With every product fully audited and traceable back to source, reliability is part and parcel of **CORE's** DNA.

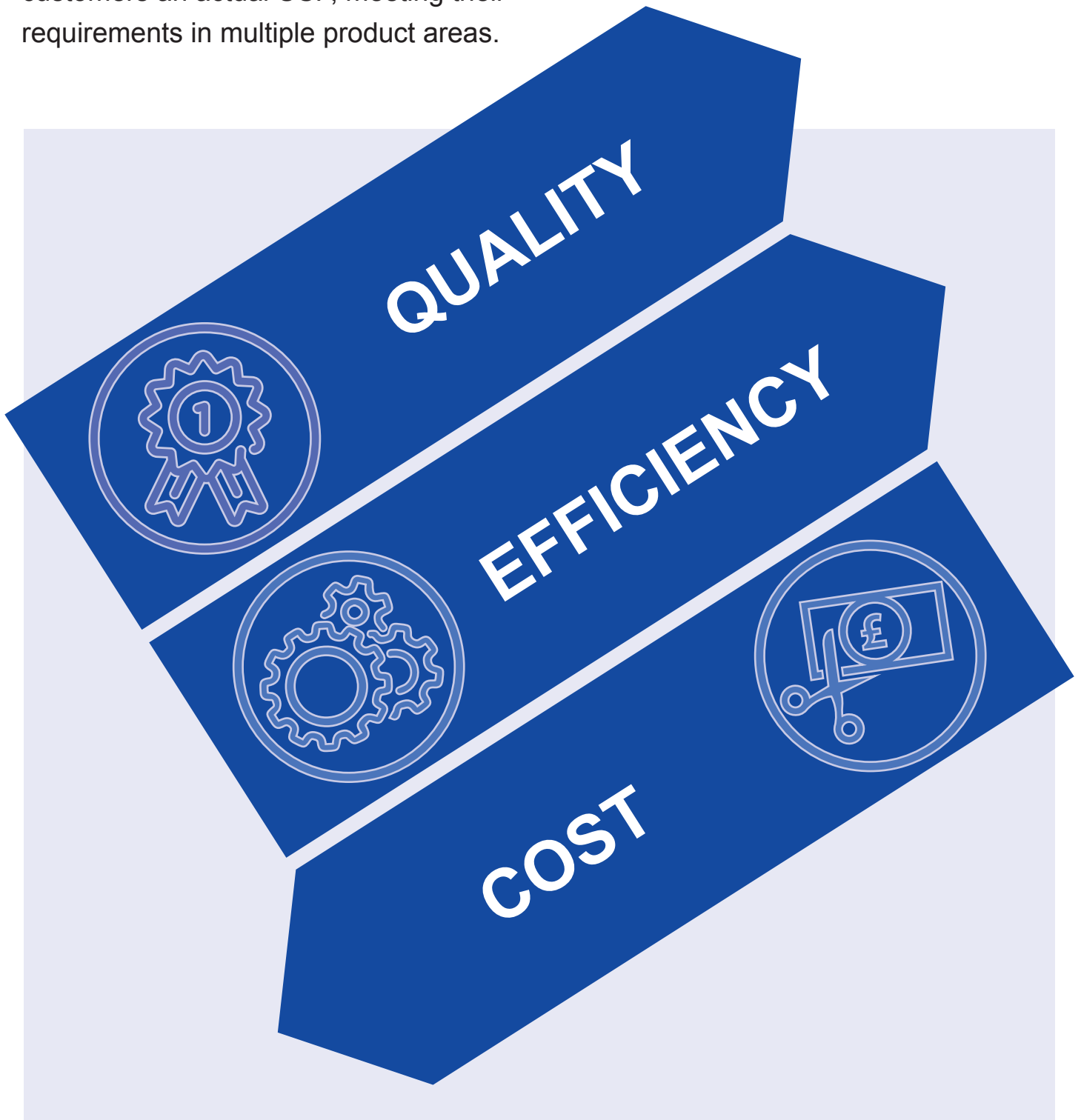
## FFICIENCY

Product performance in application with minimal wastage ensures **CORE** offers genuine efficiency.

**Core values, quality products**

# What Does CORE Represent?

**CORE** is a high-quality, cost-effective alternative product range positioned in a unique space to offer Smith Brothers customers an actual USP, meeting their requirements in multiple product areas.



## Page 12



COUPLING



90° ELBOW



90° STREET ELBOW



EQUAL TEE



45° ELBOW



45° STREET ELBOW



END CAP

## Page 13



FITTING REDUCER  
(F X C)



REDUCING COUPLER



REDUCING TEE

## Page 14



SLIP COUPLER



CROSS OVERS



TAP CONNECTOR



MALE ADAPTOR (IRON)



FEMALE ADAPTOR  
(IRON)



MALE ELBOW (IRON)



FEMALE ELBOW (IRON)



WALLPLATE ELBOW  
(IRON)



FEMALE TEE



AIR VENT CAP



CYLINDER UNION



MALE UNION (BRASS)

## Page 17



COUPLING



90° ELBOW



EQUAL TEE



45° ELBOW



90° STREET ELBOW



END CAP



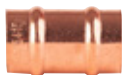
FITTING REDUCER  
(F X C)



REDUCING COUPLER  
(C X C)



REDUCING TEE



SLIP COUPLER

## Page 18



TAP CONNECTOR



MALE ADAPTOR



FEMALE ADAPTOR



MALE ELBOW



WALLPLATE ELBOW



FEMALE TEE

Page 22



STRAIGHT COUPLING



STRAIGHT COUPLING  
(CHROME)



MALE COUPLING



MALE COUPLING  
(CHROME)



FEMALE COUPLING



FEMALE COUPLING  
(CHROME)



REDUCING COUPLING



90° ELBOW



90° ELBOW (CHROME)



MALE ELBOW



MALE ELBOW  
(CHROME)



FEMALE ELBOW



FEMALE ELBOW  
(CHROME)



WALLPLATE ELBOW  
(CHROME)

Page 23



EQUAL TEE



EQUAL TEE (CHROME)



REDUCING TEE  
(CHROME)



FEMALE TEE (CHROME)



END CAP



END CAP (CHROME)



REDUCING SETS  
(CHROME)



OLIVES - COPPER



OLIVES - BRASS



Page 24



STRAIGHT COUPLING



MALE COUPLING  
(IRON)



FEMALE COUPLING  
(IRON)



REDUCING COUPLING



90° ELBOW



MALE ELBOW (IRON)



FEMALE ELBOW  
(IRON)



WALLPLATE ELBOW



TAP CONNECTOR



EQUAL TEE



REDUCING TEE



FEMALE TEE



END CAP



REDUCING SETS

For stock and technical information for each product, our distribution partner houses all this information online at [www.sbsonline.net](http://www.sbsonline.net). There are a number of ways to find the information explained below:

## Search Bar

Type the product code or product description into the search bar and click into the relevant product.

## Advanced Search

This feature allows users to search generic terms but only CORE as a manufacturer, and/or a certain category to help narrow down search further.

## View the full range and filter [www.sbsonline.net/CORE](http://www.sbsonline.net/CORE)

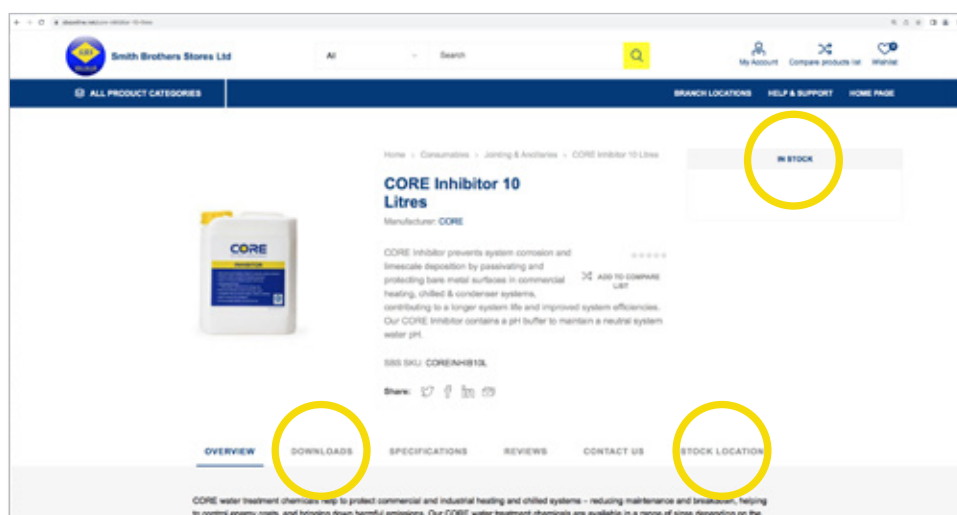
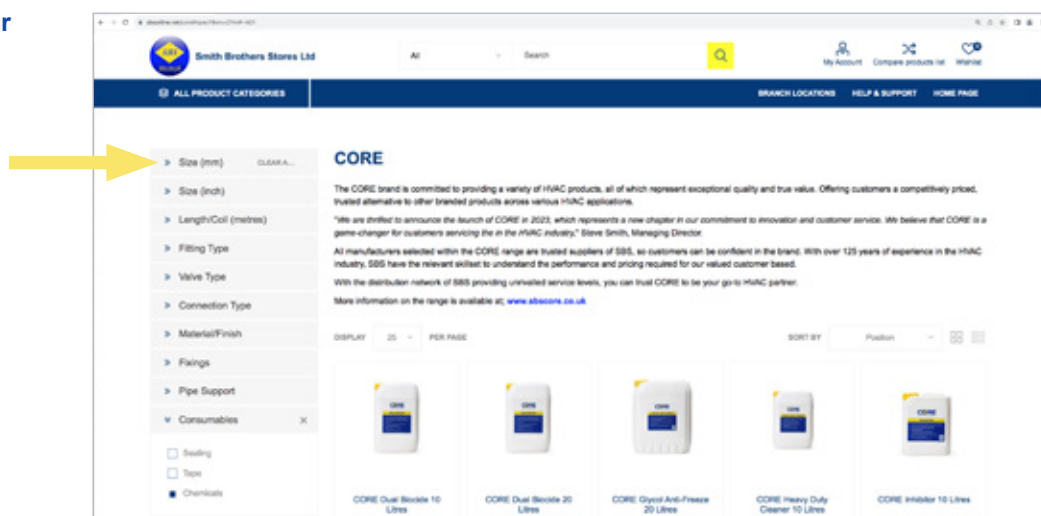
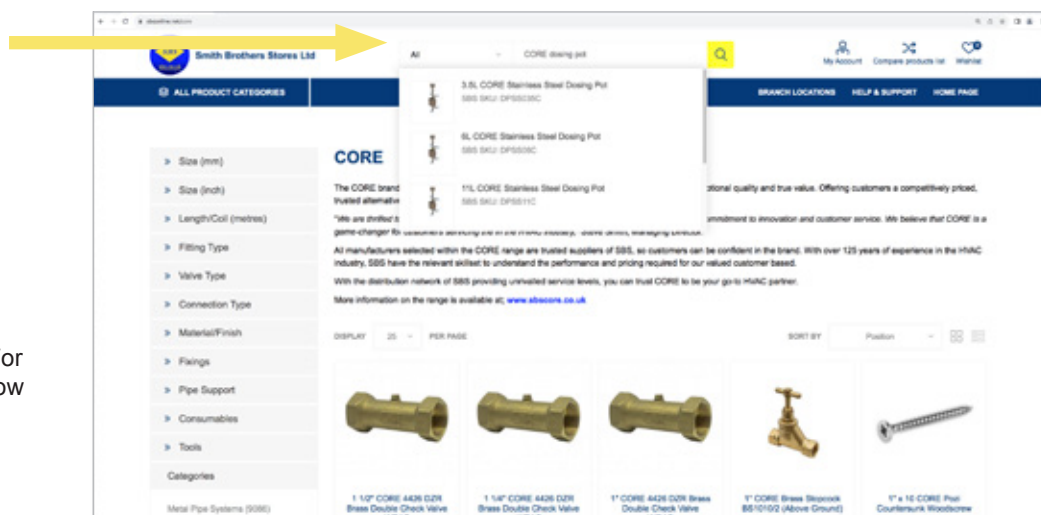
Visit the URL to view every single product within the range; once on this page, customers can use the left hand side filters to locate their desired product.

## See stocking information

Once the user has located and clicked within the relevant product, the next screen gives both companywide (top right) and individual stocking location information (bottom right).

## See technical documents

Within the downloads tab, customers can view, print and download technical information like data sheets.



## End Feed

Our CORE end feed range is manufactured to the highest standards in the UK, providing the reliability, quality, and affordability that our installers and consultants demand. They are seamless, one-piece fittings, making them stronger and easier to use. The joint is created when solder is applied to the end feed fitting, using the process of capillary action to make an easy, effective connection. All our fittings comply with British and International standards, manufactured to BS EN 1254 under quality management standard ISO 9001:2015.

### Dimensions

Equal Fittings with uniform connections are singularly sized. e.g. 15mm.

Reduced fittings with two connections are displayed with the largest size first. e.g. 22 x 15mm.

### How to Braze copper fittings

1. Cut tube square with the cutter or fine hack saw (32 tooth blade is recommended). Remove Burr.
2. Clean outside end of copper tube thoroughly with sand cloth or sandpaper equal depth of fitting. Leave no dark spots.
3. Clean inside of fitting carefully to tube stop with wire brush.  
Note: Sand cloth or sandpaper may also be used.
4. Apply heat uniformly around the fitting with torch. When brazing rod melts upon contact with heated fitting, the proper brazing temperature has been reached. Remove flame and feed brazing rod slightly off centre at the bottom of the joint. Proceed across the bottom of the fitting and up to the top centre position. Return to the starting point, and then proceed up the incomplete side to the top, again, overlapping the filler metal. Wipe off surplus brazing alloy with a piece of cloth.

## End Feed to EN1254-1 and EN1254-4



Product Code Description Bag Box

## COUPLING

N1010	10mm	10	2400
N1015	15mm	25	2000
N1022	22mm	10	700
N1028	28mm	10	300
N1035	35mm	1	150
N1042	42mm	1	125
N1054	54mm	1	60
N1067	67mm	1	40
N1076	76mm	1	25
N1108	108mm	1	10
N1133	133mm	1	6
N1159	159mm	1	6

## EQUAL TEE

N24010	10mm	10	1600
N24015	15mm	25	800
N24022	22mm	10	300
N24028	28mm	10	150
N24035	35mm	1	80
N24042	42mm	1	50
N24054	54mm	1	25
N24067	67mm	1	15
N24076	76mm	1	10
N24108	108mm	1	4
N24133	133mm	1	2
N24159	159mm	1	1

## END CAP

N61010	10mm	100	2000
N61015	15mm	25	1800
N61022	22mm	10	1000
N61028	28mm	10	500
N61035	35mm	1	250
N61042	42mm	1	150
N61054	54mm	1	120
N61067	67mm	1	60
N61076	76mm	1	50
N61108	108mm	1	20
N61159	159mm	1	8

Product Code Description Bag Box

## 90 DEGREE ELBOW

N12010	10mm	25	4000
N12015	15mm	25	1500
N12022	22mm	25	500
N12028	28mm	10	200
N12035	35mm	1	125
N12042	42mm	1	70
N12054	54mm	1	40
N12067	67mm	1	20
N12076	76mm	1	20
N12108	108mm	1	5
N12133	133mm	1	2
N12159	159mm	1	2

## 90 DEGREE STREET ELBOW

N12S015	15mm	25	1400
N12S022	22mm	10	450
N12S028	28mm	10	240
N12S035	35mm	1	125
N12S042	42mm	1	80
N12S054	54mm	1	40

## 45 DEGREE ELBOW

N21015	15mm	25	1500
N21022	22mm	10	500
N21028	28mm	10	300
N21035	35mm	1	125
N21042	42mm	1	100
N21054	54mm	1	40
N21067	67mm	1	20
N21076	76mm	1	20
N21108	108mm	1	5
N21133	133mm	1	3
N21159	159mm	1	3

## 45 DEGREE STREET ELBOW

N21S015	15mm	25	1200
N21S022	22mm	10	500
N21S028	28mm	10	300
N21S035	35mm	1	125
N21S042	42mm	1	80
N21S054	54mm	1	42

Product Code Description Bag Box

## FITTING REDUCER (F x C)

N6015008	15mm x 8mm	25	2000
N6015010	15mm x 10mm	25	1800
N6022015	22mm x 15mm	10	800
N6028015	28mm x 15mm	10	400
N6028022	28mm x 22mm	10	300
N6035015	35mm x 15mm	1	200
N6035022	35mm x 22mm	1	200
N6035028	35mm x 28mm	1	150
N6042015	42mm x 15mm	1	150
N6042022	42mm x 22mm	1	125
N6042028	42mm x 28mm	1	125
N6042035	42mm x 35mm	1	100
N6054015	54mm x 15mm	1	120
N6054022	54mm x 22mm	1	120
N6054028	54mm x 28mm	1	100
N6054035	54mm x 35mm	1	100
N6054042	54mm x 42mm	1	80
N6067028	67mm x 28mm	1	50
N6067035	67mm x 35mm	1	50
N6067042	67mm x 42mm	1	50
N6067054	67mm x 54mm	1	50
N6076035	76mm x 35mm	1	40
N6076042	76mm x 42mm	1	40
N6076054	76mm x 54mm	1	40
N6076067	76mm x 67mm	1	25
N6108042	108mm x 42mm	1	30
N6108054	108mm x 54mm	1	10
N6108067	108mm x 67mm	1	30
N6108076	108mm x 76mm	1	30
N6133076	133mm x 76mm	1	16
N6133108	133mm x 108mm	1	16
N6159076	159mm x 76mm	1	8
N6159108	159mm x 108mm	1	8
N6159133	159mm x 133mm	1	8
N6219159	219mm x 159mm	1	2

## REDUCING COUPLER (C x C)

N1R022015	22mm x 15mm	10	800
N1R028015	28mm x 15mm	10	500
N1R028022	28mm x 22mm	10	400
N1R035022	35mm x 22mm	1	200
N1R035028	35mm x 28mm	1	150

Product Code Description Bag Box

## REDUCING TEE

N28015022	15mm x 15mm x 22mm	10	500
N25022015	22mm x 22mm x 15mm	10	300
N27022015015	22mm x 15mm x 15mm	10	400
N26022015022	22mm x 15mm x 22mm	10	300
N28022028	22mm x 22mm x 28mm	10	250
N25028015	28mm x 28mm x 15mm	10	150
N25028022	28mm x 28mm x 22mm	10	150
N27028015015	28mm x 15mm x 15mm	10	200
N26028015028	28mm x 15mm x 28mm	10	150
N27028022015	28mm x 22mm x 15mm	10	150
N27028022022	28mm x 22mm x 22mm	10	150
N26028022028	28mm x 22mm x 28mm	10	150
N25035015	35mm x 35mm x 15mm	1	125
N25035022	35mm x 35mm x 22mm	1	125
N25035028	35mm x 35mm x 28mm	1	100
N26035015035	35mm x 15mm x 35mm	1	100
N27035022022	35mm x 22mm x 22mm	1	125
N26035022035	35mm x 22mm x 35mm	1	100
N27035028022	35mm x 28mm x 22mm	1	100
N27035028028	35mm x 28mm x 28mm	1	100
N26035028035	35mm x 28mm x 35mm	1	80
N25042015	42mm x 42mm x 15mm	1	50
N25042022	42mm x 42mm x 22mm	1	50
N25042028	42mm x 42mm x 28mm	1	60
N25042035	42mm x 42mm x 35mm	1	50
N27042028028	42mm x 28mm x 28mm	1	50
N27042035035	42mm x 35mm x 35mm	1	50
N25054015	54mm x 54mm x 15mm	1	40
N25054022	54mm x 54mm x 22mm	1	40
N25054028	54mm x 54mm x 28mm	1	40
N25054035	54mm x 54mm x 35mm	1	40
N25054042	54mm x 54mm x 42mm	1	40
N27054042042	54mm x 42mm x 42mm	1	44
N25067028	67mm x 67mm x 28mm	1	25
N25067035	67mm x 67mm x 35mm	1	15
N25067042	67mm x 67mm x 42mm	1	20
N25067054	67mm x 67mm x 54mm	1	20
N25076028	76mm x 76mm x 28mm	1	10
N25076035	76mm x 76mm x 35mm	1	10
N25076042	76mm x 76mm x 42mm	1	10
N25076054	76mm x 76mm x 54mm	1	10
N25076067	76mm x 76mm x 67mm	1	10
N25108035	108mm x 108mm x 35mm	1	5
N25108042	108mm x 108mm x 42mm	1	5
N25108054	108mm x 108mm x 54mm	1	4
N25108067	108mm x 108mm x 67mm	1	4
N25108076	108mm x 108mm x 76mm	1	4
N25159076	159mm x 159mm x 76mm	1	1
N25159108	159mm x 159mm x 108mm	1	1
N25159133	159mm x 159mm x 133mm	1	1

Product Code Description Bag Box

## SLIP COUPLER

N1S015	15mm	25	1200
N1S022	22mm	10	400
N1S028	28mm	10	300
N1S035	35mm	1	180
N1S042	42mm	1	100
N1S054	54mm	1	80

## CROSS OVERS

N22015	15mm Part	5	400
N22022	22mm Part	5	150
N23015	15mm Full	5	400
N23022	22mm Full	5	150

## TAP CONNECTOR

N62015	15mm x 1/2" Straight	10	800
N62015020	15mm x 3/4" Straight	10	600
N62022	22mm x 3/4" Straight	10	400
N63015	15mm x 1/2" Bent	10	900
N63022	22mm x 3/4" Bent	10	300
N11M022	22mm x 3/4" Coupling	10	600
N11M028	28mm x 1" Coupling	10	250

## MALE ADAPTOR (IRON)

N3015	15mm x 1/2"	25	600
N3015008	15mm x 1/4"	25	600
N3022	22mm x 3/4"	10	400
N3028	28mm x 1"	10	300
N3035	35mm x 1.1/4"	1	150
N3042	42mm x 1.1/2"	1	100
N3054	54mm x 2"	1	50
N3067	67mm x 2.1/2"	1	35
N3076	76mm x 3"	1	25
N3108	108mm x 4"	1	10

## FEMALE ADAPTOR (IRON)

N2015008	15mm x 1/4"	25	600
N2015	15mm x 1/2"	25	600
N2022	22mm x 3/4"	10	400
N2028	28mm x 1"	10	300
N2035	35mm x 1.1/4"	1	150
N2042	42mm x 1.1/2"	1	75
N2054	54mm x 2"	1	50
N2067	67mm x 2.1/2"	1	50
N2076	76mm x 3"	1	25
N2108	108mm x 4"	1	10

Product Code Description Bag Box

## MALE ELBOW (IRON)

N13015	15mm x 1/2"	10	400
N13022	22mm x 3/4"	10	300
N13028	28mm x 1"	10	200

## FEMALE ELBOW (IRON)

N14015	15mm x 1/2"	10	400
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## WALLPLATE ELBOW (IRON)

N15015	15mm x 1/2"	10	400
N15022	22mm x 3/4"	10	150

## FEMALE TEE

N30015	15mm x 15mm x 1/2"	10	250
N30R022015	22mm x 22mm x 1/2"	10	150
N30022	22mm x 22mm x 3/4"	10	200
N30R028015	28mm x 28mm x 1/2"	10	150
N30028	28mm x 28mm x 1"	10	100

## AIR VENT CAP

N61AV015	15mm	10	500
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## CYLINDER UNION

N68022025	22mm x 1"	10	200
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## MALE UNION (BRASS)

N69015	15mm x 1/2"	10	400
N69022	22mm x 3/4"	10	200
N69028	28mm x 1"	10	140
N69035	35mm x 1.1/4"	1	80
N69042	42mm x 1.1/2"	5	50
N69054	54mm x 2"	1	25





54mm sample



## Working Temperatures and Pressure

Service Temperature*				
Size	Min -40°C	30°C	65°C	Max 110°C
8mm to 28mm	25 bar	25 bar	25 bar	16 bar
35mm to 54mm	25 bar	25 bar	16 bar	10 bar
67mm	16 bar	16 bar	16 bar	10 bar

\* Fittings performance when correctly assembled with EN1057 copper tube using tin/copper soft solder EN29453 or tin/silver soft solder EN29453

Service Temperature**						
Size	Min -196°C	65°C	120°C	Max 150°C	Max 175°C	Max 200°C
8mm	62.5 bar	62.5 bar	58.8 bar	46.7 bar	35.5 bar	23.3 bar
10mm	50.9 bar	50.9 bar	47.9 bar	38.0 bar	28.9 bar	19.0 bar
12mm	42.9 bar	42.9 bar	40.3 bar	32.0 bar	24.3 bar	16.0 bar
15mm	40.3 bar	40.3 bar	37.9 bar	30.1 bar	22.8 bar	15.0 bar
22mm	35.6 bar	35.6 bar	33.5 bar	26.6 bar	20.2 bar	13.3 bar
28mm	28.2 bar	28.2 bar	26.5 bar	21.1 bar	16.0 bar	10.5 bar
35mm	25.2 bar	25.2 bar	23.7 bar	18.8 bar	14.3 bar	9.4 bar
42mm	23.2 bar	23.2 bar	21.8 bar	17.3 bar	13.1 bar	8.6 bar
54mm	19.8 bar	19.8 bar	18.6 bar	14.7 bar	11.2 bar	7.4 bar

\*\* Max hydraulic working pressure for fittings when assembled with EN1057 copper tube using hard solder (brazing alloy) to EN1044

Service Temperature***					
Size	Min -196°C	65°C	120°C	Max 150°C	Max 200°C
67mm	18.6 bar	18.6 bar	17.5 bar	14.0 bar	6.9 bar
76mm	18.6 bar	18.6 bar	17.5 bar	14.0 bar	6.9 bar
108mm	17.2 bar	17.2 bar	16.2 bar	12.9 bar	6.4 bar
133mm	10.5 bar	10.5 bar	8.5 bar	7.7 bar	4.1 bar
159mm	11.7 bar	11.7 bar	9.7 bar	8.6 bar	4.6 bar

\*\*\* Max hydraulic working pressure for fittings when assembled with EN1057 copper tube using hard solder (brazing alloy) to EN1044

## Solder Ring

Our comprehensive range of CORE solder ring fittings contain an integral joint of lead-free solder. The pre-soldered fitting is heated to make an easy and effective connection without using additional solder. These are suitable for commercial, industrial and engineering applications. All our fittings comply with British and International standards, manufactured to BS EN 1254 under quality management standard ISO 9001:2015.

### Dimensions

Equal fittings with uniform connections are singularly sized. e.g. 15mm.

Reduced fittings with two connections are displayed with the largest size first. e.g. 22 x 15mm.

#### How to Solder copper fittings

1. Cut tube square with the cutter or fine hack saw (32 tooth blade is recommended). Remove Burr.
2. Clean outside end of copper tube thoroughly with sand cloth or sandpaper equal depth of fitting. Leave no dark spots.
3. Clean inside of fitting carefully to tube stop with wire brush. Note: Sand cloth or sandpaper may also be used.
4. Using a brush, apply light uniform coat of soldering flux to the outside of the tube and inside of the fitting.
5. Slip tube into fitting to tube stop. Turn tube back and forth once or twice to distribute flux evenly.

6. Apply heat uniformly around the fitting with torch. When solder melts upon contact with heated fitting, the proper soldering temperature has been reached. Remove flame and feed solder slightly off centre at the bottom of the joint. Proceed across the bottom of the fitting and up to the top centre position. Return to the starting point, and then proceed up the incomplete side to the top, again, overlapping the solder metal. Wipe off surplus solder with a piece of cloth.

**CAUTION:** *Do not overheat the joint or direct the flame into the face of the fitting cup. Overheating could burn the flux, which will destroy its effectiveness and the solder will not enter the joint properly.*

## Solder Ring to EN1254-1 and EN1254-4



COUPLING



90° ELBOW



EQUAL TEE



45° ELBOW



90° STREET ELBOW



END CAP



FITTING REDUCER  
(F X C)



REDUCING COUPLER  
(C X C)



REDUCING TEE



SLIP COUPLER



TAP CONNECTOR



MALE ADAPTOR



FEMALE ADAPTOR



MALE ELBOW



WALLPLATE ELBOW



FEMALE TEE



Product Code Description Bag Box

## COUPLING

LF1008	8mm	50	3000
LF1010	10mm	50	3000
LF1015	15mm	50	1800
LF1022	22mm	25	600
LF1028	28mm	25	350
LF1035	35mm	10	210
LF1042	42mm	5	100
LF1054	54mm	5	60

## 90 DEGREE ELBOW

LF12008	8mm	50	1800
LF12010	10mm	50	1800
LF12015	15mm	50	1200
LF12022	22mm	25	400
LF12028	28mm	20	200
LF12035	35mm	10	120
LF12042	42mm	5	70
LF12054	54mm	2	36

## EQUAL TEE

LF24015	15mm	25	600
LF24022	22mm	20	240
LF24028	28mm	10	120
LF24035	35mm	5	60
LF24042	42mm	5	50
LF24054	54mm	2	24

## 45 DEGREE ELBOW

LF21015	15mm	50	1400
LF21022	22mm	25	450
LF21028	28mm	20	220
LF21035	35mm	10	140
LF21042	42mm	5	80
LF21054	54mm	2	40

## 90 DEGREE STREET ELBOW

LF12S015	15mm	25	1200
LF12S022	22mm	25	400
LF12S028	28mm	10	200

## END CAP

LF61015	15mm	50	2200
LF61022	22mm	50	1000
LF61028	28mm	25	500
LF61035	35mm	10	250
LF61042	42mm	5	150
LF61054	54mm	2	120

Product Code Description Bag Box

## FITTING REDUCER (F x C)

LF6015008	15mm x 8mm	25	1800
LF6015010	15mm x 10mm	25	1800
LF6022015	22mm x 15mm	25	900
LF6028015	28mm x 15mm	25	500
LF6028022	28mm x 22mm	25	500
LF6035015	35mm x 15mm	25	400
LF6035022	35mm x 22mm	25	300
LF6035028	35mm x 28mm	15	240
LF6042015	42mm x 15mm	10	250
LF6042022	42mm x 22mm	10	200
LF6042028	42mm x 28mm	10	200
LF6042035	42mm x 35mm	10	200
LF6054015	54mm x 15mm	5	120
LF6054022	54mm x 22mm	5	120
LF6054028	54mm x 28mm	5	100
LF6054035	54mm x 35mm	5	100
LF6054042	54mm x 42mm	5	100

## REDUCING COUPLER (C x C)

LF1R022015	22mm x 15mm	50	800
LF1R028015	28mm x 15mm	25	600
LF1R028022	28mm x 22mm	25	350
LF1R042035	42mm x 35mm	5	120

## REDUCING TEE

LF28015022	15mm x 15mm x 22mm	20	400
LF27022015015	22mm x 15mm x 15mm	20	320
LF26022015	22mm x 15mm x 22mm	20	320
LF25022015	22mm x 22mm x 15mm	20	300
LF26028015	28mm x 15mm x 28mm	10	150
LF27028022015	28mm x 22mm x 15mm	10	200
LF27028022022	28mm x 22mm x 22mm	10	200
LF26028022	28mm x 22mm x 28mm	10	150
LF25028015	28mm x 28mm x 15mm	10	160
LF25028022	28mm x 28mm x 22mm	10	150
LF25035015	35mm x 35mm x 15mm	5	100
LF25035022	35mm x 35mm x 22mm	5	95
LF25035028	35mm x 35mm x 28mm	5	95
LF25042015	42mm x 42mm x 15mm	5	80
LF25042022	42mm x 42mm x 22mm	5	80
LF25042028	42mm x 42mm x 28mm	5	65
LF25042035	42mm x 42mm x 35mm	3	45
LF25054015	54mm x 54mm x 15mm	3	45
LF25054022	54mm x 54mm x 22mm	3	45
LF25054028	54mm x 54mm x 28mm	3	45
LF25054035	54mm x 54mm x 35mm	3	30
LF25054042	54mm x 54mm x 42mm	3	30

## SLIP COUPLER

LF1S015	15mm Slip	50	1800
LF1S022	22mm Slip	25	600
LF1S028	28mm Slip	10	350

Product Code      Description      Bag      Box

## TAP CONNECTOR



LF62015	15mm x 1/2" Straight	25	600
LF62015020	15mm x 3/4" Straight	25	300
LF62022	22mm x 3/4" Straight	25	200
LF63015	15mm x 1/2" Bent	25	600
LF63022	22mm x 3/4" Bent	25	200

## MALE ADAPTOR



LF3015	15mm x 1/2" Straight	25	600
LF3022	22mm x 3/4" Straight	25	400
LF3028	28mm x 1" Straight	10	300
LF3035	35mm x 1.1/4" Straight	5	150
LF3042	42mm x 1.1/2" Straight	5	100
LF3054	54mm x 2" Straight	2	70

## FEMALE ADAPTOR



LF2015	15mm x 1/2"	25	600
LF2022	22mm x 3/4"	25	400
LF2028	28mm x 1"	10	300
LF2035	35mm x 1.1/4"	5	150
LF2042	42mm x 1.1/2"	5	100
LF2054	54mm x 2"	2	70

## MALE ELBOW



LF13015	15mm x 1/2"	25	400
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## WALLPLATE ELBOW

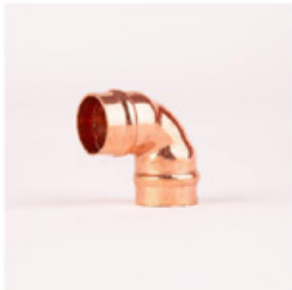


LF15015	15mm x 1/2"	25	400
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## FEMALE TEE



LF30015	15mm x 1/2" Branch	25	400
LF30R022015	22mm x 1/2" Branch	10	250



**Working Temperatures and Pressure**

Service Temperature***				
Size	Min -400°C	300°C	650°C	Max 1100°C
8mm to 54mm	16 bar	16 bar	10 bar	6 bar

CORE Copper Solder Ring fittings contain lead-free solder and are available from 8mm to 54mm. This range is manufactured to and complies with EN1254-1.

Suitable for use with BS EN 1057 copper tube, grades R250 and R290.

**Certification**

Please refer to the technical document page on the CORE website for details.

## Compression and DZR

Our comprehensive range of compression fittings is manufactured to the highest standard in the UK and complies with EN1254-2, providing the reliability, quality, and affordability that our installers and consultants demand.

Compression fittings are designed to join copper pipe and create a mechanical joint upon tightening the nut. They are suitable for hot and cold water services, heating installations, fuel services and industrial engineering applications. The range includes standard brass fittings, chrome-plated fittings and dezincification resistant (DZR) fittings.

### Dimensions

Equal fittings with uniform connections are singularly sized. e.g. 15mm.

Reduced fittings with two connections are displayed with the largest size first. e.g. 22 x 15mm.

### *How to install Compression fittings*

#### **Preliminary Information:**

- A. The correct tube and fitting should be selected
- B. The sealing surfaces of the tube and fitting, including threads, should be clean and free from damage or contamination
- C. Application of a light oil to the threads can be helpful when using 35mm-54mm fittings

#### **Assembly Preparation:**

- A. Cut the tube square using a clean rotary cutter. If other cutting methods are used, such as a saw or hacksaw, use a clean, fine-toothed blade
- B. All burrs must be removed from the tube using a fine-toothed file or a deburring tool
- C. Ensure the copper tube is clean, not damaged or oval

#### **Assembling the Fitting and Tube:**

- A. Remove the nut and olive from the fitting
- B. Put the nut and olive onto the tube
- C. Insert the tube into the fitting, ensuring it is up to the tube stop

- D. Move the olive and nut down the tube to meet the threads of the fitting
- E. Hand tighten the nut to the fitting
- F. The nut should then be tightened with a spanner

#### **Further Installation Details:**

- In rare cases there can be a small weep from the joint. If this is the case the nut can be removed, and an approved jointing compound applied to the sealing face before re-tightening the nut. It is also possible to apply PTFE tape to the threads instead
- Ensure the nut is not overtightened. If in doubt, please contact us
- In normal operating conditions, after hand tightening the nut, the number of turns required to form a robust joint would be:
  - i. 10-28mm 1 turn
  - ii. 35-54mm  $\frac{3}{4}$  turn

## DZR

CORE DZR compression are non-manipulative, dezincification resistant fittings. The DZR alloy is manufactured to stop stress corrosion cracking. The range is suitable for various applications such as central heating systems, chilled water and compressed air lines. They are designed for the jointing of copper tubes to BS EN 1057 copper tube, grades R250 and R290.

## Compression to EN1254-2



STRAIGHT COUPLING



STRAIGHT COUPLING (CHROME)



MALE COUPLING



MALE COUPLING (CHROME)



FEMALE COUPLING



FEMALE COUPLING (CHROME)



REDUCING COUPLING



90° ELBOW



90° ELBOW (CHROME)



MALE ELBOW



MALE ELBOW (CHROME)



FEMALE ELBOW



FEMALE ELBOW (CHROME)



WALLPLATE ELBOW (CHROME)



EQUAL TEE



EQUAL TEE (CHROME)



REDUCING TEE (CHROME)



FEMALE TEE (CHROME)



END CAP



END CAP (CHROME)



REDUCING SETS (CHROME)



OLIVES - COPPER



OLIVES - BRASS

## Compression DZR to EN1254-2



STRAIGHT COUPLING



MALE COUPLING (IRON)



FEMALE COUPLING (IRON)



REDUCING COUPLING



90° ELBOW



MALE ELBOW (IRON)



FEMALE ELBOW (IRON)



WALLPLATE ELBOW



TAP CONNECTOR



EQUAL TEE



REDUCING TEE



FEMALE TEE



END CAP



REDUCING SETS



Product Code	Description	Bag	Box
<b>STRAIGHT COUPLING</b>			
CF610015	15mm	10	300
CF610022	22mm	10	150
CF610028	28mm	10	100
CF610035	35mm	5	50
CF610042	42mm	2	36
CF610054	54mm	1	24



<b>STRAIGHT COUPLING (CHROME)</b>			
CF910CP015	15mm	10	300
CF910CP022	22mm	10	150
CF910CP035	35mm	5	50
CF910CP042	42mm	2	20



<b>MALE COUPLING</b>			
CF911010008	10mm x 1/4"	20	800
CF611015	15mm x 1/2"	10	300
CF911015008	15mm x 1/4"	10	300
CF611015020	15mm x 3/4"	10	200
CF911015010	15mm x 3/8"	10	300
CF911022015	22mm x 1/2"	10	200
CF611022	22mm x 3/4"	10	140
CF611022025	22mm x 1"	10	150
CF611028	28mm x 1"	10	110
CF611035	35mm x 1.1/4"	5	50
CF611042	42mm x 1.1/2"	2	36
CF611054	54mm x 2"	1	24



<b>MALE COUPLING (CHROME)</b>			
CF911CP015	15mm x 1/2"	10	300
CF911CP022	22mm x 3/4"	10	150



<b>FEMALE COUPLING</b>			
CF912010008	10mm x 1/4"	20	500
CF612015	15mm x 1/2"	10	300
CF612015020	15mm x 3/4"	10	250
CF612022015	22mm x 1/2"	10	200
CF612022	22mm x 3/4"	10	150
CF612028	28mm x 1"	10	100
CF612035	35mm x 1.1/4"	5	50
CF612042	42mm x 1.1/2"	2	40
CF612054	54mm x 2"	1	20



<b>FEMALE COUPLING (CHROME)</b>			
CF912CP015	15mm x 1/2"	10	300
CF912CP022	22mm x 3/4"	10	160



<b>REDUCING COUPLING</b>			
CF610015010	15mm x 10mm	10	300
CF910015012	15mm x 12mm	10	300
CF910028022	28mm x 22mm	10	120



<b>90 DEGREE ELBOW</b>			
CF915008	8mm	20	500
CF915010	10mm	20	400
CF615015	15mm	10	250
CF615022	22mm	10	120
CF615028	28mm	10	70
CF615035	35mm	5	30
CF615042	42mm	2	20



<b>90 DEGREE ELBOW (CHROME)</b>			
CF915CP015	15mm	10	250
CF915CP022	22mm	10	120
CF915CP028	28mm	10	70
CF915CP035	35mm	5	30
CF915CP042	42mm	2	20



<b>MALE ELBOW</b>			
CF616015	15mm x 1/2"	10	250
CF916015020	15mm x 3/4"	10	150
CF616022	22mm x 3/4"	10	120
CF616035	35mm x 1.1/4"	5	30



<b>MALE ELBOW (CHROME)</b>			
CF916CP015	15mm x 1/2"	10	250



<b>FEMALE ELBOW</b>			
CF617015	15mm x 1/2"	10	250
CF917015020	15mm x 3/4"	10	100
CF617022	22mm x 3/4"	10	100



<b>FEMALE ELBOW (CHROME)</b>			
CF917CP015	15mm x 1/2"	10	250



<b>WALLPLATE ELBOW (CHROME)</b>			
CF917WCP015	15mm x 1/2"	10	120



Product Code	Description	Bag	Box
<b>EQUAL TEE</b>			
CF918008	08mm	20	300
CF918010	10mm	20	300
CF618015	15mm	10	150
CF618022	22mm	10	60
CF618028	28mm	5	35
CF618035	35mm	5	20
CF618042	42mm	2	16
CF618054	54mm	1	8



Product Code	Description	Bag	Box
<b>OLIVES (COPPER)</b>			
CF978B015C	15mm	250	4000
CF978B022C	22mm	100	2000
CF978B028C	28mm	50	1000
CF978B035C	35mm	50	500
CF978B042C	42mm	50	250
CF978B054C	54mm	25	200



Product Code	Description	Bag	Box
<b>OLIVES (BRASS)</b>			
CF978B010	10mm	400	8000
CF978B015	15mm	250	4000
CF978B022	22mm	100	2000
CF978B028	28mm	50	1000
CF978B035	35mm	50	500
CF978B042	42mm	50	250
CF978B054	54mm	25	200



<b>EQUAL TEE (CHROME)</b>			
CF918CP015	15mm	10	150
CF918CP022	22mm	10	80
CF918CP028	28mm	10	50
CF918CP042	42mm	2	16



<b>REDUCING TEE (CHROME)</b>			
CF918BCP022015015	22mm x 15mm x 15mm	10	100
CF918BCP022015	22mm x 22mm x 15mm	10	80



<b>FEMALE TEE (CHROME)</b>			
CF930CP015	15mm x 15mm x 1/2"	10	140



<b>END CAP</b>			
CF651015	15mm	10	500
CF651022	22mm	10	300
CF651028	28mm	10	150
CF651035	35mm	10	80
CF651042	42mm	2	70
CF651054	54mm	1	35





<b>END CAP (CHROME)</b>			
CF951CP015	15mm	10	500
CF951CP022	22mm	10	300





<b>REDUCING SETS (CHROME)</b>			
CF948CP022015	22mm x 15mm	10	500
CF948CP028022	28mm x 22mm	10	350
CF948CP035028	35mm x 28mm	5	200



	Product Code	Description	Bag	Box
	<b>STRAIGHT COUPLING</b>			
	CF910010	10mm	20	500
	CF910015	15mm	10	300
	CF910022	22mm	10	150
	CF910028	28mm	10	90
	CF910035	35mm	5	50
	CF910042	42mm	2	36
	CF910054	54mm	1	24

	<b>MALE COUPLING (IRON)</b>			
	CF911015	15mm x 1/2"	10	300
	CF911015020	15mm x 3/4"	10	200
	CF911022	22mm x 3/4"	10	160
	CF911022025	22mm x 1"	10	150
	CF911028	28mm x 1"	10	110
	CF911035	35mm x 1.1/4"	5	50
	CF911042	42mm x 1.1/2"	2	36
	CF911054	54mm x 2"	1	24

	<b>FEMALE COUPLING (IRON)</b>			
	CF912015	15mm x 1/2"	10	300
	CF912022	22mm x 3/4"	10	150
	CF912022025	22mm x 1"	10	150
	CF912028	28mm x 1"	10	100
	CF912035	35mm x 1.1/4"	5	50
	CF912042	42mm x 1.1/2"	2	40
	CF912054	54mm x 2"	1	20

	<b>REDUCING COUPLING</b>			
	CF910015010	15mm x 10mm	10	300
	CF910022015	22mm x 15mm	10	200

	<b>90 DEGREE ELBOW</b>			
	CF915015	15mm x 90	10	250
	CF915022	22mm x 90	10	120
	CF915028	28mm x 90	10	70
	CF915035	35mm x 90	5	30
	CF915042	42mm x 90	2	20
	CF915054	54mm x 90	1	15


	<b>MALE ELBOW (IRON)</b>			
	CF916015	15mm x 1/2"	10	250
	CF916022	22mm x 3/4"	10	120
	CF916022025	22mm x 1"	10	70
	CF916028	28mm x 1"	10	50


	<b>FEMALE ELBOW (IRON)</b>			
	CF917015	15mm x 1/2"	10	250
	CF917022	22mm x 3/4"	10	100
	CF917022025	22mm x 1"	10	70
	CF917028	28mm x 1"	10	70
	CF917035	35mm x 1.1/4"	5	30
	CF917042	42mm x 1.1/2"	2	20
	CF917054	54mm x 2"	1	18

	Product Code	Description	Bag	Box
	<b>WALLPLATE ELBOW</b>			
	CF917W015	15mm x 1/2"	10	120
	CF917W022	22mm x 3/4"	10	80

	<b>TAP CONNECTOR</b>			
	CF926015	15mm x 1/2" Straight	10	250

	<b>EQUAL TEE</b>			
	CF918015	15mm	10	150
	CF918022	22mm	10	80
	CF918028	28mm	10	50
	CF918035	35mm	5	20
	CF918042	42mm	2	16
	CF918054	54mm	1	8

	<b>REDUCING TEE</b>			
	CF918EB022015015	22mm x 15mm x 15mm	10	100
	CF918E022015022	22mm x 15mm x 22mm	10	80
	CF918B022015	22mm x 22mm x 15mm	10	80
	CF918B028022	28mm x 22mm x 28mm	10	50

	<b>FEMALE TEE</b>			
	CF930015	15mm x 15mm x 1/2"	10	140
	CF930022015	22mm x 22mm x 1/2"	10	80
	CF930022020	22mm x 22mm x 3/4"	10	80

	<b>END CAP</b>			
	CF951015	15mm	10	500
	CF951022	22mm	10	300
	CF951028	28mm	10	150
	CF951035	35mm	5	80
	CF951042	42mm	2	70
	CF951054	54mm	1	40

	<b>REDUCING SETS</b>			
	CF948022015	22mm x 15mm	10	500
	CF948028015	28mm x 15mm	10	500
	CF948028022	28mm x 22mm	10	350
	CF948035022	35mm x 22mm	5	250
	CF948035028	35mm x 28mm	5	200
	CF948042035	42mm x 35mm	5	100
	CF948054042	54mm x 42mm	5	80





## Working Temperatures and Pressure

Service Temperature				
Size	Min -15°C	30°C	90°C	Max 120°C
15mm	20 bar	20 bar	10 bar	6 bar
22mm	20 bar	20 bar	10 bar	6 bar
28mm	20 bar	20 bar	10 bar	6 bar
35mm	16 bar	16 bar	7 bar	4 bar
42mm	16 bar	16 bar	7 bar	4 bar
54mm	16 bar	16 bar	7 bar	4 bar

CORE compression fittings are manufactured to and comply with EN 1254-2.

## Warranty

Fittings come with a 25-year guarantee on all water, heating, gas and sanitation fittings against fault or defect as a consequence of defective materials or failure to comply with the provision of the quality standard.

## Installation instructions

Please refer to the Installation Manual for details.

In normal operating conditions, after hand tightening the nut, the number of turns required to form a robust joint would be:

- 10-28mm 1 turn
- 35-54mm 3/4 turn

The specific torque settings per size are as follows:

15mm	40Nm
22mm	60Nm
28mm	80Nm
35mm	100Nm
42mm	180Nm
54mm	240Nm

## Certification

Please refer to the technical document page on the CORE website for details.

During the sales journey, Smith Brothers aims to provide the installer with all the service and support they require on every CORE product, making the purchasing journey easier than ever. While our objective is to give all the resources available pre-sale, we understand aftersales care is just as important, which is why CORE and SBS are integrated throughout their processes.

## Support

### Information



**Technical documents** published online viewable 24/7  
[sbscore.co.uk/technical-documents](https://sbscore.co.uk/technical-documents)

**Product codes** provided to make it easy to order with SBS

**Product selectors** to help choose correct product within the range

### Aftersales



**SBS have ISO 9001 approved product failure reporting**

As CORE is exclusive to Smith Brothers, it means any product issues experienced will be fully investigated and promptly resolved




**CORE & SBS are integrated throughout their operation:**  
Personnel from both CORE and SBS can perform on-site visits to resolve any issues, or provide additional support if required



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**CORE products are available  
via our distribution partner**



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[www.sbscore.co.uk](http://www.sbscore.co.uk)



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