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Conex Compression

Conex Compression Technical Brochure

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IBP Instalfittings Sp z.o.o.

USA
IBP Group LLC

China
IBP China

Tel: +44 (0)121 557 2831 | Fax: +44 (0)121 557 0185 | Email: salesuk@ibpgroup.com | www.conexbanninger.com

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Conex Bänninger products are approved by numerous Standards Authorities and Certification Bodies. This is a representation of the full range from Conex Universal Ltd. IBP trademarks are registered in numerous countries.

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Conex Compression

1.0 General

Conex Compression fittings are manufactured from high quality brass materials which ensures a permanently tight and secure connection, without the use of special tooling or additional sealant. These fittings are suitable for connecting a wide range of tubes, including copper tubes in accordance with EN 1057, carbon steel to EN 10305, stainless steel to EN 10312 and plastic pipes to BS 7291, EN 15875 and EN 15876.

1.1 Quality and certification

Conex Bänninger has 110 years of experience in manufacturing innovative products and operates an accredited Quality Managements System to ISO 9001.

Conex Compression fittings are tested and approved for use with drinking water up to 108 mm and for gas applications up to 28 mm. Tested and certified by independent European certification bodies such as WRAS (Water Regulations Advisory Scheme) confirming their suitability and reliability for drinking water use.

Conex Compression fittings are approved for various applications and certified by the following bodies:

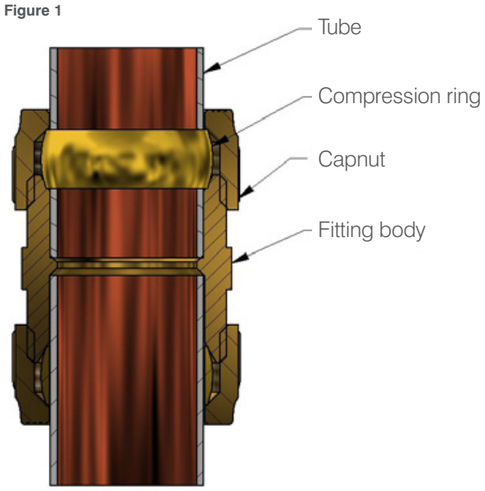
Table 1:

Certificates and approvals	
WRAS	UK
BSI Kitemark	UK
DVGW	Germany
DNV	Germany
Bureau Veritas	Germany
KIWA water	Netherlands
KIWA Gas	Netherlands
SVGW	Switzerland
ARGB-KVGB	Belgium
PZH	Poland
TYSK	Ukraine
PCT	Russia
EMI	Hungary

1.2 Product design

Conex Compression fittings are designed to minimise flow restriction. They are designed with a symmetrical compression ring which provides a seal within the cone of the fitting and capnut providing a two point seal on the tube. The simple principle of a Conex Compression joint is shown sectioned in figure 1.

Figure 1



Conex Compression fittings are manufactured in accordance with EN 1254 and consists of the following components:

- Fitting body with machined tube stop
- Compression ring (olive)
- Capnut

Conex Compression hex nuts and unique ribbed pattern capnuts are supplied in sizes 6 mm to 28 mm fittings.

Sizes 35 mm, 42 mm and 54 mm are supplied with octagonal capnuts.

Sizes 66.7 mm, 76.1 mm and 108 mm sizes incorporate loose compression plates, tightened by six 3/8" BSW nuts.

Patented rib nut

1.3 Materials

Conex Compression fittings are available in yellow brass, or dezincification resistant brass and red brass (gunmetal). Components in contact with water are manufactured from low lead materials complying with the European requirements for materials in contact with drinking water.

Low lead specification

- Standard material: EN 12165, CW 617N-DW
- DZR material: EN 12165, CW 511L
- Red brass (gunmetal): EN 1982, CC 499K

These materials meet the requirements of the 'UBA/4MS list of hygienically suitable materials for drinking water', and are ideal for all types of drinking water systems without restriction.

1.4 Threaded connections

Conex Compression fittings are available with male and female threaded connections. These threaded ends incorporate a hexagon or octagon nut for tightening the joint. They are manufactured to the following standards:

- Female threads to ISO 228 parallel.
- Male threads are either ISO 228 parallel or ISO 7 taper.
- ISO 228 parallel threads require a sealing washer to affect the seal on the mating faces of the joint. Please note: these must not be used in gas installations.
- ISO 7 taper threads are sealed on the thread form with appropriate sealing material. Suitable for gas applications up to 1".
- The use of HEMP is not permitted.

1.5 Tube compatibility

Conex Compression connectors can be combined with:

- Copper tubes in accordance with EN 1057 up to 108 mm in R220 (liner required), R250 and R290 temper condition.
- Stainless steel tubes up to 28 mm in accordance with EN 10312, series 1 or 2.
- Carbon steel tubes up to 28 mm in accordance with EN 10305.
- Polybutylene (PB) to BS 7291 part 2 & EN 15876 up to 28 mm (liner required).
- PE-X pipe to BS 7291 part 3 and EN 15875 up to 28 mm (liner required).

For more details please see. 4.0 Operating Parameters.

1.6 Storage and handling

It is advisable to leave the fittings in the packaging to protect the fitting prior to installation. Please store in a cool dry place to protect the fittings from contamination, damage and dirt.

Cone face connectors to EN 1254-2 (BS 864: Part 2) rely on a metal to metal seal and care should be taken to avoid damage prior to assembly.

1.7 COSHH (Control of substances hazardous to health)

It is the responsibility of the end user to ensure that adequate protection is available where required and the necessary information regarding possible health and safety regulations is adhered to. Copper and copper alloy fittings are considered non-hazardous under normal circumstances.

1.8 Finish availability

Apart from the natural brass finish, Conex Compression fittings are also available in nickel or chrome plated finish in accordance with EN 248.

Note: it is recommended that you contact our customer service team for availability of any of our Conex Compression fittings in the plated versions.

1.9 Conversion data for connecting metric fittings to imperial tube

Table 2:

Conversion table		
Metric size	Imperial size	Method of adaptation
12 mm	3/8"	Compatible – no adaptor required
15 mm	1/2"	Compatible – no adaptor required
22 mm	3/4"	Exchange existing 22 mm 65 compression ring for a 3/4" 65 compression ring (04-1020065--)
28 mm	1"	Exchange existing 28 mm 65 compression ring for a 1" 65 compression ring (05-1020065--)
35 mm	1-1/4"	Exchange existing 35 mm 65 compression ring for a 1-1/4" 65 compression ring (06-1020065--)
42 mm	1-1/2"	Exchange existing 42 mm 65 compression ring for a 42 x 1-1/2" S68S adaptor ring (K071020068S-)
54 mm	2"	Compatible – no adaptor required
67 mm	2-1/2"	Compatible – no adaptor required
76.1 mm	3"	No adaptation possible a 76 x 3" 301IM coupler (R302020301IM) must be used.
108 mm	4"	Exchange existing 108 mm 65 compression ring for a 108 x 4" S68S adaptor ring (S405020068S-)

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2.0 Applications

Table 3:

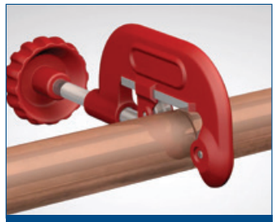
Applications	Flow medium	Tube type				
		Copper	Stainless steel	Carbon steel	PB	PE-X
Drinking water applications EN 806	Drinking water in accordance with national drinking water regulations	√	√	x	√	√
Hot water and heating systems EN 12828	Heating water	√	√	x	√	√
Solar thermal systems EN 12975 / 12976	Water and water-glycol mixtures mixing ratio max. 50/50%	√	√	√	x	x
Closed circuit heating systems	Heating systems	√	√	√	√	√
Chilled water	Water and water-glycol mixtures. mixing ratio max. 50/50%	√	√	√	x	x
Rainwater harvesting systems	Rainwater from cisterns	√	√	√	x	x
'Wet' fire extinguishing tube systems 14462	Firefighting water	√	√	√	x	x
Compressed air	Compressed air of all classes according to ISO 8573-1	√	√	√	x	x
Industrial and processing water	Reclaimed water 6.5 ≤ Ph 6.5 ≤ 9.5	√	√	√	x	x
Natural gas installations EN 1775	Combustion gases	√	√	√	x	x
Liquefied petroleum gas installations	Combustion gases	√	x	√	x	x
Fuel oil supply systems	Heating oil EL	√	x	x	x	x

3.0 Jointing Instructions

3.1 Sizes 6 - 54 mm

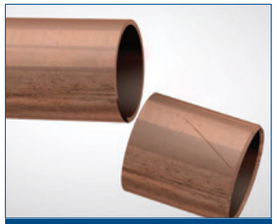
All installations must be completed in line with local regulations and by-laws governing the installation, and all applicable health and safety practices must be adhered to.

It is advisable to leave the fittings in the packaging prior to final installation to protect them from contamination and damage. As part of the installation process the space required and the minimum distance for Conex Compression fittings must be observed. For copper tubes in a R220 annealed condition and plastic tubes to BS 7291, EN 15875 and EN 15876 supporting liners must be used.



1. Cut the tube to length

Tubes should be cut square to the required length with a pipe cutter. An angle grinder or cutting torch must not be used for cutting to length.

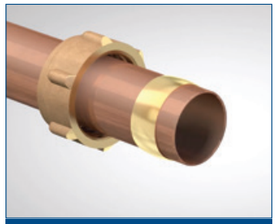


2. Clean

Once the tube has been prepared, check for any deep scratches and scores in the tube. If either are visible cut the tube back and start the process again.

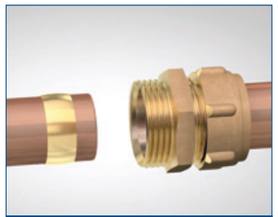
3. Deburr internally and externally

The tubes should then be carefully deburred inside and out to remove all sharp edges and debris.



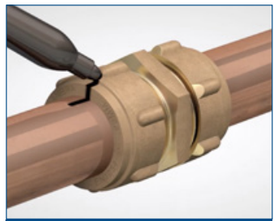
4. Assemble 1

After the tube has been prepared and checked for scores and scratches, slide on the capnut and the compression ring.



5. Assemble 2

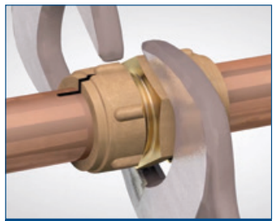
After the first capnut and compression ring has been located on to the tube add the main body of the fitting. This can be done by screwing the body in to the capnut. Slide the second capnut and compression ring on to the other side of the tube.



6. Hand tighten and mark

Insert the tube up to the tube stop in to the main body of the fittings and hand tighten. This should be done on both of the capnuts so that the joint is secure and fixed in place.

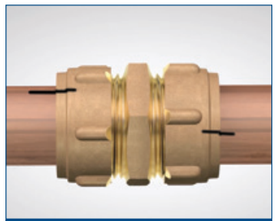
Mark each capnut and tube so that the number of turns can be counted.



7. Tighten the joint

After both of the capnuts have been hand tightened use a flat face spanner, adjustable spanner (not serrated jaw type pliers) or torque wrench to tighten further. Use table 6 as a guide to how many turns are required for each size.

Note: Remember to count the



8. Joint completion

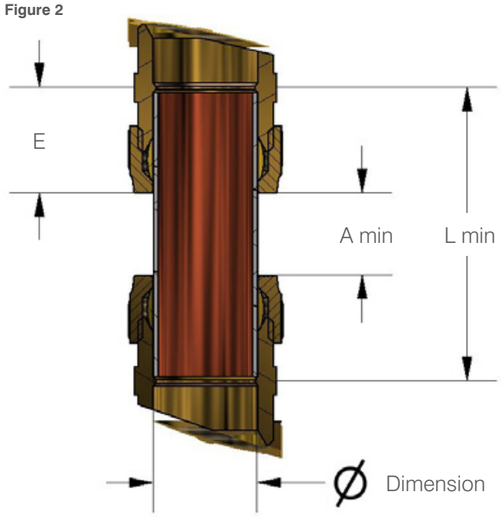
number of turns using the guidance marks on the tube and fitting.

3.1.1 Minimum distances and insertion depths

Table 4:

Tube dimension	Minimum distance	Minimum tube length	Insertion depth
	A	L	E
mm			
6	14	46	16
8	15	49	17
10	15	51	18
12	16	56	20
15	16	58	21
16	17	61	22
18	17	65	24
20	17	65	24
22	17	67	25
28	17	69	26
35	19	81	31
42	21	85	34
54	24	106	41

Figure 2



3.1.2 Threaded joints for water applications

The use of a WRAS listed sealant or tape (e.g. PTFE) is recommended for making joints on fittings with taper male threads. For making joints with parallel connector threads, a good quality washer should be used to suit the particular application. Suitable WRAS approved washers are supplied with Conex tap connector fittings and these should be used.

3.1.3 Connecting to plastic pipes

When joining soft copper tube to EN 1057-R220 or plastic pipes to BS 7291, EN 15875 and EN 15876, it is essential that an appropriate tube liner is also fitted. A Conex Compression joint makes a metal to metal seal which normally eliminates the need for jointing compounds and sealants. On larger sizes, particularly 54 mm, it may be necessary to use an additional WRAS approved sealant. Jointing instructions, when using sealant, are available from our technical department.

Table 5: Spanner size for compression nut

Tube dimension	Spanner size
mm	
6	14
8	16
10	18
12	20
15	25
16	26
18	28
20	31
22	33
28	39
35	48
42	57
54	72
67	15
76	15
108	15

Table 6: See below table for the turns required to tighten the Conex Compression joint after hand tightening.

Material	Tube/Pipe specification	Size	6 mm to 18 mm	22 mm	28 mm to 54 mm	x
Copper	EN 1057 - R250 (Half hard)	No. of turns	1 1/4	1	3/4	x
	EN 1057 - R290 (Hard)	No. of turns	1	3/4	1/2	x
	EN 1057 - R220 (Annealed)	No. of turns Liner required SC1	1 1/4	1	x	x
Stainless steel	EN 10312 (BS4127)	Size	6 mm to 22 mm	28 mm	35 mm to 54 mm	
		No. of turns	3/4	1/2	1/2	x
Carbon steel	EN 10305	Size	6 mm to 22 mm	28 mm	x	x
		No. of turns	3/4	1/2	x	x
Plastic pipe	Polybutylene (PB)	Size	10 mm	15 mm	22 mm	28 mm
		No. of turns	1 1/2	1 1/2	1 1/2	1 1/2
		Liner PP	C183031000PP	E203031000PP	G233031000PP	H293031000PP
	Cross linked polyethylene (PE-X)	Size	10 mm	15 mm	22 mm	28 mm
		No. of turns	1 1/2	1 1/2	1 1/2	1 1/2
		Liner PP	C183031000PP	E183031000PP	G233031000PP	H293031000PP

Note: For internal reducers the number of turns must be taken from the size of the connecting tubes not the size of the fitting.

Table 7:

Torque values	
Size (mm)	**Torque value in Nm**
6 to 10	20 +/- 5
15	30 +/- 5
22	40 +/- 5
28	55 +/- 5
35 to 54	70 +/- 5

The torque values given in table 7 are given as an alternative method to the number of turns in Table 6 if torque wrenches are used. These figures are only for copper tube.

3.2 Flange fittings – sizes 67-108 mm

1. Ensure that the tube and fitting sizes are compatible. Then cut the tube end square, ensure tube retains its shape. The tube will then make even contact with the tube stop in the body of the fitting.

2. Remove any burrs from the tube, both inside and out.

3. One of two methods can be employed for making the joint.

a) The tube can be firmly inserted into the Conex Compression fitting without removing the compression plate and compression ring. Care should be taken to ensure that the compression ring is in the correct position and that the tube makes firm contact with the tube stop in the body of the fitting. The 3/8" BSW nuts are then tightened until hand tight and the same amount of thread shows on each bolt.

b) The compression plate and compression ring can be removed by first unscrewing the 3/8" BSW nuts. Then by locating the compression plate and compression ring onto the tube in logical sequence, the tube is then inserted into the fitting, or fitting onto the tube, until positive contact is reached. The compression ring and compression plate are then correctly situated in their original position, the nuts are replaced and tightened until hand tight, with the same amount of thread showing on each bolt.

4. In both cases the nuts are then further tightened a minimum of 2 full turns in increments of a 1/2 turn only, on each position in the sequence shown in Figure 3. To avoid over tightening the maximum number of turns is 2 1/2.

Figure 3

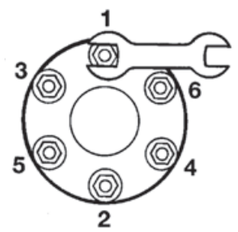
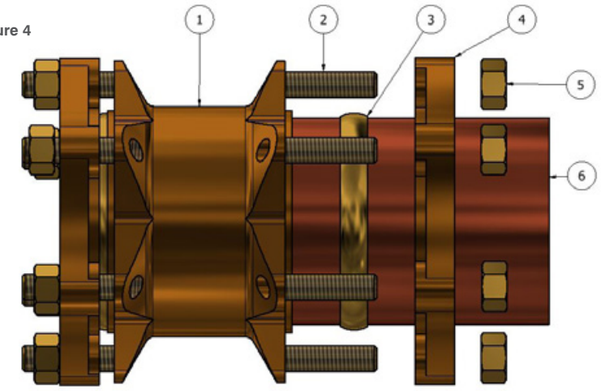


Figure 4



1. Fitting
2. Stud
3. Compression ring
4. Compression plate
5. Nut
6. Tube

Note: The compression plate before and after correct assembly should be parallel to the face of the fitting body.

3.3 Internal reducers

Where dedicated fittings do not exist for reduction in tube-work, the reduction may be achieved with the use of internal reducers either as a three piece or one piece configuration. These are manufactured from DZR (dezincification resistant material CR) or gunmetal, thereby being resistant or immune to dezincification. They are suitable for use with our unique ribbed and octagonal capnut fittings.

Note: One piece reducers are not designed for use with plastic pipes. Only the three piece reducers - S68 can be used for plastic pipes. Internal reducers must not be used for gas applications and installations.

The minimum number of turns required is based on the reduced diameter end. Thus, for a 22 mm x 15 mm reducer, use the number of turns required for the 15 mm end. Refer to Table 6.

Reducers rely on a metal to metal seal and care should be taken to avoid damage prior to assembly. Should difficulty be experienced, the use of a WRAS listed sealant is permitted.

3.4 Jointing instructions for gas applications

There are four quick steps to fitting a quality compression joint that is guaranteed to last:

Operating parameters		
Gases	Tube sizes	Max operating pressure at 30 °C
LPG & natural gases	6 mm to 28 mm	1.0 bar

1. Make the joint in the same way you would join water tubes, following the standard catalogue instructions, but tighten the capnut 1/8 of a turn less than the specified number of turns after it has been tightened.

2. Mark the position of the capnut in relation to the body of the fitting. Then dismantle the joint.

3. Apply a thin smear of anaerobic sealant (in accordance with EN 751-1 approved for gas applications e.g. Loctite 542 or 577, Rood Foliac Super Red, etc) to the leading edge of the compression ring.

4. Re-assemble the joint and re-tighten the capnut as before to its marked position. Finally, tighten the capnut again by another 1/8 of a turn.

4.0 Other Installations

4.1 Solar installations

12 mm to 28 mm Conex Compression fittings have been tested at ERA Technology Ltd. Surrey, for use in solar installations up to 200 °C with 50/50 glycol/water.

Note: The number of turns of the capnut, from hand tight, must be 1-1/2 turns.

4.2 Gas installations

Special instructions are required for the installation of gas.

Conex Compression fittings are fully tested and approved for gas applications and pass the high temperature leakage rate test at 650 °C for 30 minutes. This criteria is fulfilled by the materials used and by the construction of the fitting.

Surface installations are possible, but the insertion behind plaster and below ground is not permitted.

5.0 Corrosion

5.1 Stress corrosion cracking

In certain environments, particularly those containing corrosive media, stress corrosion cracking of duplex brass and DZR compression fittings can occur. It is important to select the correct product for the application and to follow the installation procedure to avoid corrosion or failure. For further information please visit www.conexbanninger.com.

6.0 Operating Parameters

6.1 Operating temperature and pressures with metal tubes

The maximum operating temperatures and pressures are shown below, based on EN 1254-2.

Operating temperatures and maximum operating pressures - liquids

Operating temperature °C	Maximum operating pressure			
	Bar			
	6 to 15 mm	> 15 to 28 mm	> 28 to 54 mm	> 54 to 108 mm
30	25	16	16	10
65	25	13	10	6
95	16	10	7	5
110	16	8	6	4

Operating temperatures and maximum operating pressures - gas up to 28 mm

Operating temperature °C	Maximum operating pressure
	Bar
-20 to 70	1

Operating temperatures and maximum operating pressures - compressed air up to 28 mm

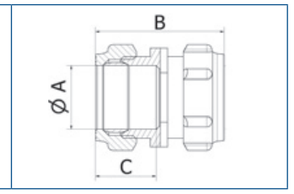
Operating temperature °C	Maximum operating pressure
	Bar
0 to 45	10

7.0 The Range

Range code:

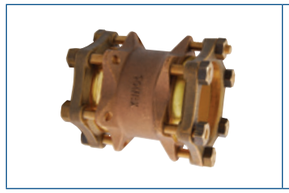
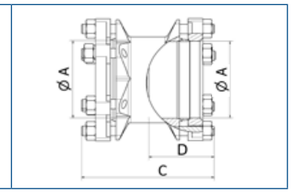
Brass DZR Red brass

All sizes are in mm unless otherwise stated



Straight Coupler - 301

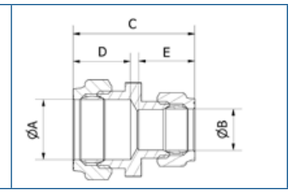
Code	Fitting size	A	B	C
DD-1020301--	12	12	45	20
TT-1020301--	14	14	45	21
EE-1020301--	15	15	44	21
UU-1020301--	16	16	47	22
FF-1020301--	18	18	50	24
VV-1020301--	20	20	51	24
GG-1020301--	22	22	52	25
HH-1020301--	28	28	53	26
JJ-1020301--	35	35	62	30
AA-5020301--	6	6	32	16
BB-5020301--	8	8	39	17
CC-5020301--	10	10	41	18
DD-5020301--	12	12	45	20
EE-5020301--	15	15	44	21
FF-5020301--	18	18	50	24
GG-5020301--	22	22	52	25
HH-5020301--	28	28	53	26
JJ-5020301--	35	35	62	30
KK-5020301--	42	42	70	34
NN-5020301--	54	54	83	40

Straight Coupler - 301

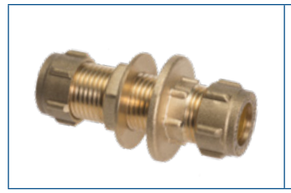
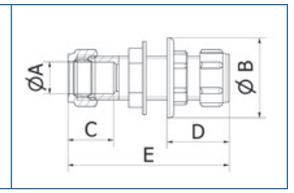
Code	Fitting Size	A	B	C
QQ-2020301--	67	67	125	60
RR-2020301--	76	76	152	75
SS-2020301--	108	108	178	87

All sizes are in mm unless otherwise stated
Conex | Bänninger
Conex Compression



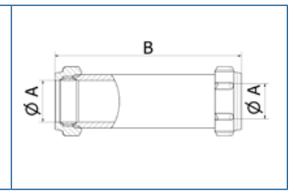
Reduced Straight Coupler - 301

Code	Fitting size	A	B	C	D	E
ED-1020301--	15 x 12	15	12	43	21	20
FD-1020301--	18 x 12	18	12	46	24	20
GE-1020301--	22 x 15	22	15	48	25	21
GF-1020301--	22 x 18	22	18	51	25	24
HG-1020301--	28 x 22	28	22	52	26	25
BA-5020301--	8 x 6	8	6	31	18	16
CB-5020301--	10 x 8	10	8	37	18	17
DB-5020301--	12 x 8	12	8	39	20	17
DC-5020301--	12 x 10	12	10	40	20	18
EB-5020301--	15 x 8	15	8	40	21	17
EC-5020301--	15 x 10	15	10	41	21	18
ED-5020301--	15 x 12	15	12	43	21	20
FE-5020301--	18 x 15	18	15	47	24	21
GE-5020301--	22 x 15	22	15	51	25	24
HE-5020301--	28 x 15	28	15	51	26	24
HG-5020301--	28 x 22	28	22	53	26	25
JG-5020301--	35 x 22	35	22	58	30	26
JH-5020301--	35 x 28	35	22	58	30	26

Straight Coupler Bulkhead - 301BH

Code	Fitting size	A	B	C	D	E
EE-1020301BH	15	38	38	20	25	77
GG-1020301BH	22	22	45	24	30	82

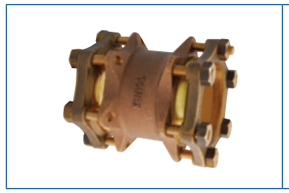


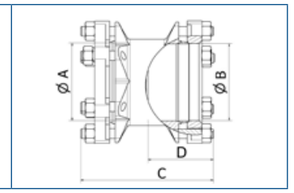
Slip Coupler Burst Tube Repair - 301BP

Code	Fitting size	A	B
DZB1020301BP	12	12	100
EZB1020301BP	15	15	100
FZB1020301BP	18	18	100
GZB1020301BP	22	22	100

Range code:

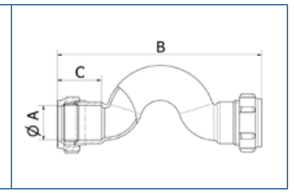
Brass DZR Red brass





Imperial to Metric Straight Coupler - 301IM

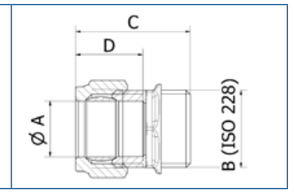
Code	Fitting size	A	B	C	D
R302020301IM	76 x 3"	76	3"	160	80



Crossover - 301CO

Code	Fitting size	A	B	C
EE-5020301CO	15	15	107	22
GG-5020301CO	22	22	127	25

All sizes are in mm unless otherwise stated
Conex | Bänninger
Conex Compression

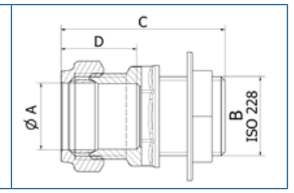


Male Straight Coupler - 302

Code	Fitting size	A	B	C	D
A1011020302--	6 x 1/4"	6	1/4"	27	8.5
D011020302--	12 x 1/4"	12	1/4"	34	16
D021020302--	12 x 3/8"	12	3/8"	35	20
D031020302--	12 x 1/2"	12	1/2"	35	20
E011020302--	15 x 1/4"	15	1/4"	34	21
E021020302--	15 x 3/8"	15	3/8"	35	21
E031020302--	15 x 1/2"	15	1/2"	37	21
E041020302--	15 x 3/4"	15	3/4"	38	21
F031020302--	18 x 1/2"	18	1/2"	36	24
F041020302--	18 x 3/4"	18	3/4"	43	24
G031020302--	22 x 1/2"	22	1/2"	37	25
G041020302--	22 x 3/4"	22	3/4"	42	25
G051020302--	22 x 1"	22	1"	41	25
H051020302--	28 x 1"	28	1"	45	26
H061020302--	28 x 1 1/4"	28	1 1/4"	48	26
J061020302--	35 x 1 1/4"	35	1 1/4"	52	30
K071020302--	42 x 1 1/2"	42	1 1/2"	57	34
N081020302--	54 x 2"	54	2"	70	40
A605020302--	6 x 1/8"	6	1/8"	27	16
B015020302--	8 x 1/4"	8	1/4"	30	17
B025020302--	8 x 3/8"	8	3/8"	32	17
B035020302--	8 x 1/2"	8	1/2"	32	17
C015020302--	10 x 1/4"	10	1/4"	31	18
C025020302--	10 x 3/8"	10	3/8"	33	18
C035020302--	10 x 1/2"	10	1/2"	33	18
D025020302--	12 x 3/8"	12	3/8"	35	20
D035020302--	12 x 1/2"	12	1/2"	35	20
E025020302--	15 x 3/8"	15	3/8"	35	21
E035020302--	15 x 1/2"	15	1/2"	37	21
E045020302--	15 x 3/4"	15	3/4"	38	21
F035020302--	18 x 1/2"	18	1/2"	36	24
F045020302--	18 x 3/4"	18	3/4"	43	24
G035020302--	22 x 1/2"	22	1/2"	37	25
G045020302--	22 x 3/4"	22	3/4"	42	25
G055020302--	22 x 1"	22	1"	41	25
H055020302--	28 x 1"	28	1"	45	26
H045020302--	28 x 3/4"	28	3/4"	41	26
J055020302--	35 x 1"	35	1"	48	30
J065020302--	35 x 1 1/4"	35	1 1/4"	52	30
K075020302--	42 x 1 1/2"	42	1 1/2"	57	34
N085020302--	54 x 2"	54	2"	70	40
Q092020302--	67 x 2 1/2"	67	2 1/2"	86	64
R302020302--	76 x 3"	76	3"	101	79
S402020302--	108 x 4"	108	4"	138	86

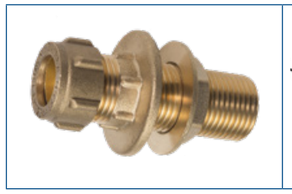
Range code:

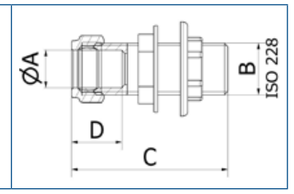
Brass DZR Red brass



Male Straight Connector with Back Nut - 302B

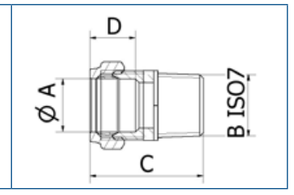
Code	Fitting size	A	B	C	D
E031020302B-	15 x 1/2"	15	1/2"	62	21
G041020302B-	22 x 3/4"	22	3/4"	72	25
H051020302B-	28 x 1"	28	1"	70	26
J061020302B-	35 x 1 1/4"	35	1 1/4"	62	30
K071020302B-	42 x 1 1/2"	42	1 1/2"	63	34
N081020302B-	54 x 2"	54	2"	69	40
Q092020302B-	67 x 2 1/2"	67	2 1/2"	146	60
R302020302B-	76 x 3"	76	3"	159	75





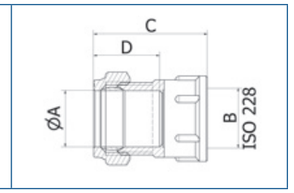
Extended Male Straight Connector with Back Nut - 302CB

Code	Fitting size	A	B	C
E031020302CB	15 x 1/2 x 38	15	1/2	21
G041020302CB	22 x 3/4 x 38	22	3/4	25



Male Straight Connector - 302TA

Code	Fitting size	A	B	C	D
C025020302TA	10 x 3/8"	10	3/8"	37	18
C035020302TA	10 x 1/2"	10	1/2"	41	18
D021020302TA	12 x 3/8"	12	3/8"	38	20
D031020302TA	12 x 1/2"	12	1/2"	42	20
T031020302TA	14 x 1/2"	14	1/2"	20	42
E021020302TA	15 x 3/8"	15	3/8"	35	21
E031020302TA	15 x 1/2"	15	1/2"	43	21
E041020302TA	15 x 3/4"	15	3/4"	46	21
U031020302TA	16 x 1/2"	16	1/2"	22	43
U041020302TA	16 x 3/4"	16	3/4"	22	45
F031020302TA	18 x 1/2"	18	1/2"	43	24
F041020302TA	18 x 3/4"	18	3/4"	45	24
G031020302TA	22 x 1/2"	22	1/2"	45	25
G041020302TA	22 x 3/4"	22	3/4"	48	25
G051020302TA	22 x 1"	22	1"	51	25
H041020302TA	28 x 3/4"	28	3/4"	50	26
H051020302TA	28 x 1"	28	1"	53	26

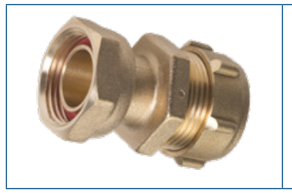


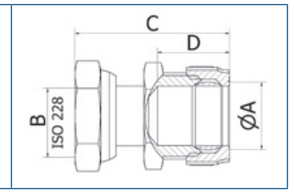
Female Straight Connector - 303

Code	Fitting size	A	B	C	D
D021020303--	12 x 3/8"	12	3/8"	36	20
D031020303--	12 x 1/2"	12	1/2"	39.5	20
T031020303--	14 x 1/2"	14	1/2"	20	40
E021020303--	15 x 3/8"	15	3/8"	36.5	21
E031020303--	15 x 1/2"	15	1/2"	39.5	21
E041020303--	15 x 3/4"	15	3/4"	42.5	21
E051020303--	15 x 1"	15	1"	43.5	21
U031020303--	16 x 1/2"	16	1/2"	22	42
F031020303--	18 x 1/2"	18	1/2"	41.5	24
F041020303--	18 x 3/4"	18	3/4"	42.5	24
G031020303--	22 x 1/2"	18	1/2"	43	25
G041020303--	22 x 3/4"	22	3/4"	43	25
G051020303--	22 x 1"	22	1"	48	25
H041020303--	28 x 3/4"	28	3/4"	26	43
H051020303--	28 x 1"	28	1"	48	26
H061020303--	28 x 1 1/4"	28	1 1/4"	51	26
B015020303--	8 x 1/4"	8	1/4"	32.5	17
B025020303--	8 x 3/8"	8	3/8"	33.5	17
B035020303--	8 x 1/2"	8	1/2"	36.5	17
C015020303--	10 x 1/4"	10	1/4"	34	18
C025020303--	10 x 3/8"	10	3/8"	34	18
C035020303--	10 x 1/2"	10	1/2"	37	18
D025020303--	12 x 3/8"	12	3/8"	36	20
D035020303--	12 x 1/2"	12	1/2"	39.5	20
E025020303--	15 x 3/8"	15	3/8"	36.5	21
E035020303--	15 x 1/2"	15	1/2"	39.5	21
E045020303--	15 x 3/4"	15	3/4"	42.5	21
F035020303--	18 x 1/2"	18	1/2"	41.5	24
F045020303--	18 x 3/4"	18	3/4"	42.5	24
G035020303--	22 x 1/2"	22	1/2"	25	40
G045020303--	22 x 3/4"	22	3/4"	43.5	25
G055020303--	22 x 1"	22	1"	49	25
H045020303--	28 x 3/4"	28	3/4"	43	26
H055020303--	28 x 1"	28	1"	48	26
J055020303--	35 x 1"	35	1"	56	30
J065020303--	35 x 1 1/4"	35	1 1/4"	57	301
K075020303--	42 x 1 1/2"	42	1 1/2"	63	34
N085020303--	54 x 2"	54	2"	72	40
Q092020303--	67 x 2 1/2"	67	2 1/2"	93	64
R302020303--	76 x 3"	76	3"	112	79

Range code:

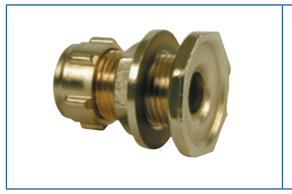
Brass DZR Red brass

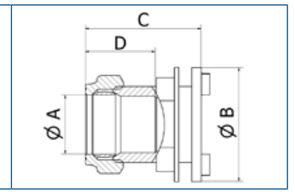




Straight Tap Connector Max 60 °C - 303SF

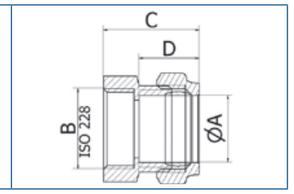
Code	Fitting size	A	B	C	D
E031020303SF	15 x 1/2"	15	1/2"	35	21
G041020303SF	22 x 3/4"	22	3/4"	39	25
E035020303SF	15 x 1/2"	15	1/2"	35	21
E045020303SF	15 x 3/4"	15	3/4"	36	21
G045020303SF	22 x 3/4"	22	3/4"	39	25





Tank Connector - 321

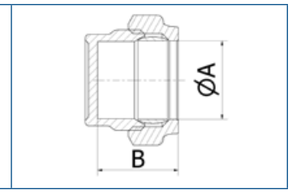
Code	Fitting size	A	B	C	D
E--1020321--	15	15	35	49	21
G--1020321--	22	22	43	46	25
H--1020321--	28	28	49	48	26
J--1020321--	35	35	57	46	30
N--5020321--	54	54	82	73	40
H--5020321--	28	28	49	48	25
K--5020321--	42	42	63	49	34



Female Straight Connector for Pillar Taps - 303ST (short thread)

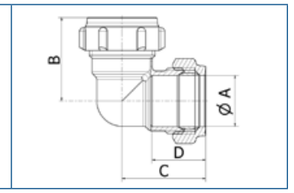
Code	Fitting size	A	B	C	D
E031020303ST	15	15	1/2"	33	21
E041020303ST	15	15	3/4"	33	21
G041020303ST	22	22	3/4"	33	25

All sizes are in mm unless otherwise stated
Conex | Bänninger
Conex Compression



Stop End - 323

Code	Fitting size	A	B
B--1020323--	8	8	19
D--1020323--	12	12	22
E--1020323--	15	15	26
G--1020323--	22	22	27
H--1020323--	28	28	31
B--5020323--	8	8	22
C--5020323--	10	10	22
D--5020323--	12	12	25
E--5020323--	15	15	26
F--5020323--	18	18	29
G--5020323--	22	22	27
H--5020323--	28	28	40
J--5020323--	35	35	35
K--5020323--	42	42	37
N--5020323--	54	54	50

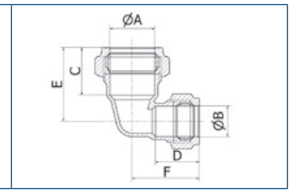


Elbow - 401

Code	Fitting size	A	B	C	D
DD-1020401--	12	12	29	29	20
TT-1020401--	14	14	31	31	21
EE-1020401--	15	15	31	31	21
UU-1020401--	16	16	32	32	22
FF-1020401--	18	18	35	35	24
GG-1020401--	22	22	37	37	25
HH-1020401--	28	28	42	42	26
JJ-1020401--	35	35	48	48	30
KK-1020401--	42	42	56	56	34
NN-1020401--	54	54	69	69	40
AA-5020401--	6	6	23	23	23
BB-5020401--	8	8	24	25	17
CC-5020401--	10	10	28	28	18
DD-5020401--	12	12	29	30	20
EE-5020401--	15	15	31	32	21
FF-5020401--	18	18	35	35	29
GG-5020401--	22	22	37	40	25
HH-5020401--	28	28	42	42	26
JJ-5020401--	35	35	48	48	30
KK-5020401--	42	42	56	56	34
NN-2020401--	54	54	69	69	40
QQ-2020401--	67	67	102	102	64
RR-2020401--	76	76	114	114	79

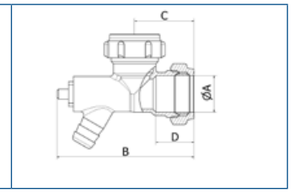
Range code:

Brass DZR Red brass



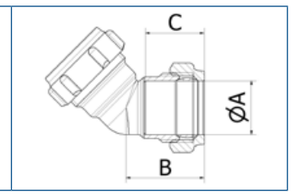
Reduced Elbow - 401

Code	Fitting size	A	B	C	D	E	F
ED-1020401--	15 x 12	15	12	21	20	28	26
FE-1020401--	18 x 15	18	15	24	21	34	33
GE-1020401--	22 x 15	22	15	25	21	34	25
DC-5020401--	12 x 10	12	10	20	18	28	22
EC-5020401--	15 x 10	15	10	21	19	31	30
GE-5020401--	22 x 15	22	15	25	21	34	31
HE-5020401--	28 x 15	28	15	26	21	38	34
HG-5020401--	28 x 22	28	22	26	25	38	39



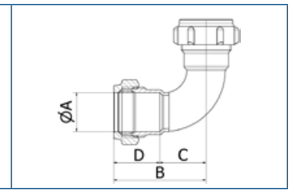
Elbow with Drain Tap - 401DA

Code	Fitting size	A	B	C	D
EE-1020401DA	15	15	81	31	22
GG-1020401DA	22	22	91	37	25
HH-1020401DA	28	28	97	42	26



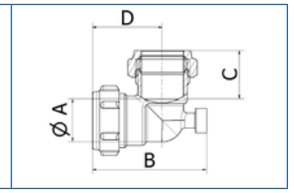
Obtuse Elbow - 401/0

Code	Fitting size	A	B	C
EE-1020401/O	15	15	24	21
GG-1020401/O	22	22	28	25
HH-1020401/O	28	28	30	26



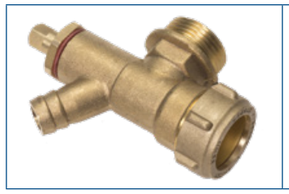
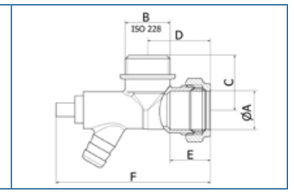
Slow Bend - 401S

Code	Fitting size	A	B	C	D
EE-5020401S-	15	15	41	19	22
GG-5020401S-	22	22	46	22	24
HH-5020401S-	28	28	53	27	26



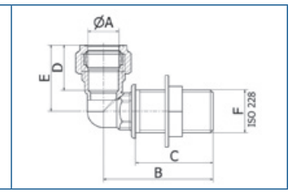
Elbow with Air Vent - 401V

Code	Fitting size	A	B	C	D
EE-1020401V-	15	15	22	22	31
GG-1020401V-	22	22	60	25	37

Male Elbow with Drain Tap - 402DA

Code	Fitting size	A	B	C	D	E	F
G041020402DA	22 x 3/4"	22	3/4"	33	38	25	91

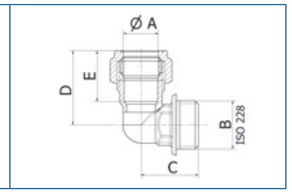


Extended Male Elbow with Back Nut - 402CB

Code	Fitting size	A	B	C	D	E	F
E031020402CB	15 x 1/2" x 38	15	54	38	21	34	1/2"
G041020402CB	22 x 1/2" x 38	22	59	38	25	38	1/2"

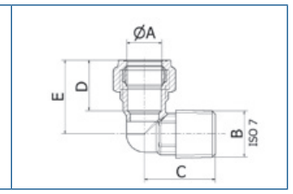
Range code:

Brass DZR Red brass



Male Elbow - 402

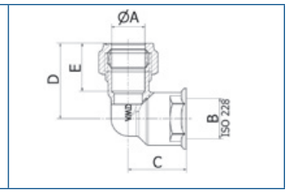
Code	Fitting size	A	B	C	D	E
E031020402--	15 x 1/2"	15	1/2"	24	33	21
E041020402--	15 x 3/4"	15	3/4"	29	35	21
F031020402--	18 x 1/2"	18	1/2"	27	37	24
G041020402--	22 x 3/4"	22	3/4"	31	43	25
G051020402--	22 x 1"	22	1"	38	43	25
H041020402--	28 x 3/4"	28	3/4"	37	39	26
B015020402--	8 x 1/4"	8	1/4"	20	27	17
C025020402--	10 x 3/8"	10	3/8"	23	30	18
C035020402--	10 x 1/2"	10	1/2"	24	32	18
D025020402--	12 x 3/8"	12	3/8"	23	30	20
D035020402--	12 x 1/2"	12	1/2"	24	34	20
E025020402--	15 x 3/8"	15	3/8"	23	30	21
E035020402--	15 x 1/2"	15	1/2"	24	33	21
E045020402--	15 x 3/4"	15	3/4"	29	35	21
F035020402--	18 x 1/2"	18	1/2"	27	37	24
F045020402--	18 x 3/4"	18	3/4"	29	37	24
G035020402--	22 x 1/2"	22	1/2"	30	40	25
G045020402--	22 x 3/4"	22	3/4"	31	38	25
H055020402--	28 x 1"	28	1"	38	43	26
J065020402--	35 x 1 1/4"	35	1 1/4"	45	49	30
K075020402--	42 x 1 1/2"	42	1 1/2"	17	56	34
N082020402--	54 x 2"	54	2"	18	69	40
Q092020402--	67 x 2.1/2"	67	2 1/2"	83	109	60



Male Elbow Taper - 402TA

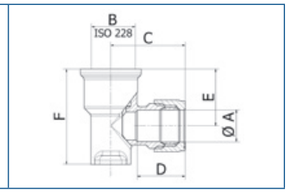
Code	Fitting size	A	B	C	D	E
D021020402TA	12 x 3/8"	12	3/8"	31	20	27
D031020402TA	12 x 1/2"	12	1/2"	33	20	31
T031020402TA	14 x 1/2"	14	1/2"	35	21	31
E021020402TA	15 x 3/8"	15	3/8"	29	21	30
E031020402TA	15 x 1/2"	15	1/2"	31	21	33
E041020402TA	15 x 3/4"	15	3/4"	34	21	35
U031020402TA	16 x 1/2"	16	1/2"	34	22	35
U041020402TA	16 x 3/4"	16	3/4"	37	22	38
F031020402TA	18 x 1/2"	18	1/2"	35	24	36
F041020402TA	18 x 3/4"	18	3/4"	36	24	34
G041020402TA	22 x 3/4"	22	3/4"	37	25	38
G051020402TA	22 x 1"	22	1"	42	25	40
H051020402TA	28 x 1"	28	1"	45	26	43
C035020402TA	10 x 1/2"	10	1/2"	31	18	32

All sizes are in mm unless otherwise stated
Conex | Bänninger
Conex Compression



Female Elbow - 403

Code	Fitting size	A	B	C	D	E
D031020403--	12 x 1/2"	12	1/2"	22.5	33	20
E031020403--	15 x 1/2"	15	1/2"	15	34	21
E041020403--	15 x 3/4"	15	3/4"	25.5	35.5	21
F031020403--	18 x 1/2"	18	1/2"	26	36	24
F041020403--	18 x 3/4"	18	3/4"	30	40	24
G031020403--	22 x 1/2"	22	1/2"	25	37	25
G041020403--	22 x 3/4"	22	3/4"	29	39	25
G051020403--	22 x 1"	22	1"	31	43	25
H041020403--	28 x 3/4"	28	3/4"	33	40	26
H051020403--	28 x 1"	28	1"	35	44	26
K071020403--	42 x 1 1/2"	42	1 1/2"	48.5	55.5	34
B015020403--	8 x 1/4"	8	1/4"	17	27	17
C025020403--	10 x 3/8"	10	3/8"	19	29	18
C035020403--	10 x 1/2"	10	1/2"	23	33	18
D025020403--	12 x 3/8"	12	3/8"	19	30.5	20
D035020403--	12 x 1/2"	12	1/2"	22.5	33	20
E025020403--	15 x 3/8"	15	3/8"	21.5	32	20
E035020403--	15 x 1/2"	15	1/2"	23.5	34.5	21
E045020403--	15 x 3/4"	15	3/4"	25.5	35.5	21
F045020403--	18 x 3/4"	18	3/4"	30	40	24
G035020403--	22 x 1/2"	22	1/2"	25	37	24
G045020403--	22 x 3/4"	22	3/4"	28.5	39.5	25
H055020403--	28 x 1"	28	1"	30.5	42.5	26
J065020403--	35 x 1 1/4"	35	1 1/4"	35	44	30
K072020403--	42 x 1 1/2"	42	1 1/2"	48.5	55.5	34
N082020403--	54 x 2"	54	2"	55.5	70	40

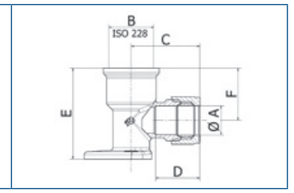


Female Wall Plate Elbow 2 Hole - 403W

Code	Fitting size	A	B	C	D	E	F
D031020403W-	12 x 1/2"	12	1/2"	33	18	25	38
T031020403W-	14 x 1/2"	14	1/2"	44	21	24	42
E031020403W-	15 x 1/2"	15	1/2"	44	21	24	42
E035020403W-	15 x 1/2"	15	1/2"	44	21	24	42

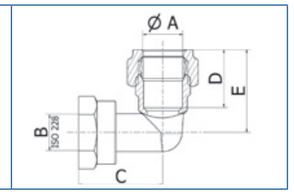
Range code:

Brass DZR Red brass



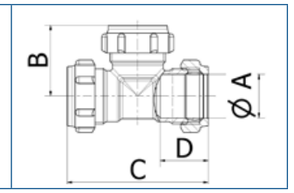
Female Wall Plate Elbow 3 Hole - 403WL

Code	Fitting size	A	B	C	D	E	F
E031020403WL	15 x 1/2"	15	1/2"	34	21	45	25
U031020403WL	16 x 1/2"	16	1/2"	34	21	45	25
F031020403WL	18 x 1/2"	18	1/2"	37	24	43	30
G031020403WL	22 x 1/2"	22	1/2"	38	25	47	35
H051020403WL	28 x 1"	28	1/2"	44	26	65	40
C035020403WL	10 x 1/2"	10	1/2"	34	18	38	23
D035020403WL	12 x 1/2"	12	1/2"	33	20	38	23
E035020403WL	15 x 1/2"	15	1/2"	34	21	45	25
G045020403WL	22 x 3/4"	22	3/4"	38	24	54	32
H051020403WL	28 x 1"	28	1"	44	26	65	40



Bent Tap Connector - 403SF

Code	Fitting size	A	B	C	D	E
E031020403SF	15 x 1/2"	15	1/2"	25	21	31
G031020403SF	22 x 1/2"	22	1/2"	29	25	33
G041020403SF	22 x 3/4"	22	3/4"	30	25	36
E035020403SF	15 x 1/2"	15	1/2"	25	21	31

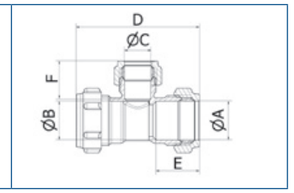


Equal Tee - 601EQ

Code	Fitting size	A	B	C	D
DDD1020601EQ	12	12	29	58	20
TTT1020601EQ	14	14	31	63	21
EEE1020601EQ	15	15	31	63	21
FFF1020601EQ	18	18	33	66	24
GGG1020601EQ	22	22	36	73	25
HHH1020601EQ	28	28	42	83	26
AAA5020601EQ	6	6	22	45	15
BBB5020601EQ	8	8	25	50	17
CCC5020601EQ	10	10	28	56	18
DDD5020601EQ	12	12	29	58	20
EEE5020601EQ	15	15	31	63	21
UUU5020601EQ	16	18	32	63	22
FFF5020601EQ	18	18	33	66	24
GGG5020601EQ	22	22	36	73	26
HHH5020601EQ	28	28	42	83	26
JJJ5020601EQ	35	35	53	106	30
KKK5020601EQ	42	42	62	123	34
NNN2020601EQ	54	54	63	124	40
QQQ2020601EQ	67	67	98	196	64
RRR2020601EQ	76	76	118	240	79

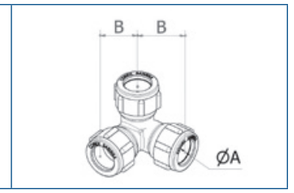
Range code:

Brass DZR Red brass



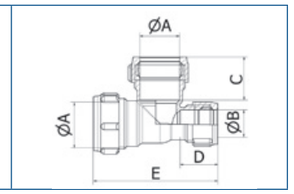
Tee Reduced Branch - 601RB

Code	Fitting size	A	B	C	D	E	F
GGE1020601--	22 x 22 x 15	22	22	15	69	25	21
HHE1020601--	28 x 28 x 15	28	28	15	68	26	21
HHG1020601--	28 x 28 x 22	28	28	22	76	26	25
NNE1020601--	54 x 54 x 15	54	54	15	114	40	21
NNG1020601--	54 x 54 x 22	54	54	22	114	40	25
NNH1020601--	54 x 54 x 28	54	54	28	114	40	26
NNJ2020601--	54 x 54 x 35	54	54	35	114	40	30
NNK2020601--	54 x 54 x 42	54	54	42	118	40	34
EEC5020601--	15 x 15 x 10	15	15	10	63	21	18
EED5020601--	15 x 15 x 12	15	15	12	64	21	20
FFD5020601--	18 x 18 x 12	18	18	12	61	24	20
FFE5020601--	18 x 18 x 15	18	18	15	68	24	21
GGD5020601--	22 x 22 x 12	22	22	12	70	25	20
GGE5020601--	22 x 22 x 15	22	22	15	70	25	21
GGF5020601--	22 x 22 x 18	22	22	18	73	25	24
HHE5020601--	28 x 28 x 15	28	28	15	68	26	24
HHG5020601--	28 x 28 x 22	28	28	22	76	26	25
JJE5020601--	35 x 35 x 15	35	35	15	82	30	24
JJG5020601--	35 x 35 x 22	35	35	22	82	30	25
JJH5020601--	35 x 35 x 28	35	35	28	89	30	26
KKE5020601--	42 x 42 x 15	42	42	15	92	34	24
KKG5020601--	42 x 42 x 22	42	42	22	92	34	25
KKH5020601--	42 x 42 x 28	42	42	28	106	34	26
KKJ5020601--	42 x 42 x 35	42	42	35	106	34	30
NNK5020601--	54 x 54 x 42	42	42	54	37	40	34
QQH2020601--	67 x 67 x 28	67	67	28	151	64	25
QQK2020601--	67 x 67 x 42	67	67	42	167	64	34
QQN2020601--	67 x 67 x 54	67	67	54	177	64	40
RRH2020601--	76 x 76 x 28	76	76	28	183	79	25
RRN2020601--	76 x 76 x 54	76	76	54	209	79	40



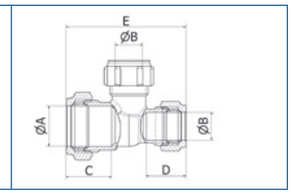
Three-way Equal Tee - 601C

Code	Fitting size	A	B
EEE5020601C-	15 x 15 x 15	15	34
GGG5020601C-	22 x 22 x 22	22	37



Tee Reduced End - 601RE

Code	Fitting size	A	B	C	D	E
FEF1020601--	18 x 15 x 18	18	15	24	21	26
GEG1020601--	22 x 15 x 22	22	15	24	21	70
HEH1020601--	28 x 15 x 28	22	15	26	21	81
DDE5020601--	12 x 12 x 15	12	15	20	64	20
FEF5020601--	18 x 15 x 18	18	15	24	21	68
GEG5020601--	22 x 15 x 22	22	15	24	21	70
HGH5020601--	28 x 22 x 28	22	15	26	21	81

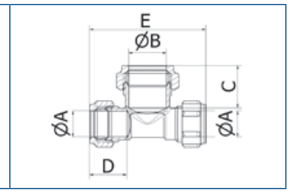


Tee Reduced End and Branch - 601REB

Code	Fitting size	A	B	C	D	E
GEE1020601--	22 x 15 x 15	22	15	25	21	65
EDD5020601--	15 x 12 x 12	15	12	21	18	64
GEE5020601--	22 x 15 x 15	22	15	25	21	65
HGG5020601--	28 x 22 x 22	28	22	26	25	75

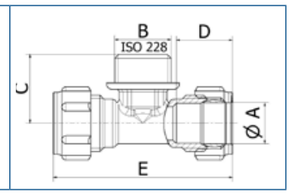
Range code:

Brass DZR Red brass



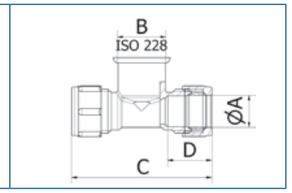
Tee Reduced Both Ends - 601REE

Code	Fitting size	A	B	C	D	E
EEG5020601-	15 x 15 x 22	15	22	25	21	70
GGH5020601--	22 x 22 x 28	22	28	26	25	82



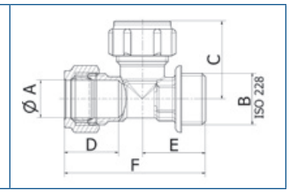
Tee with Male Branch - 615

Code	Fitting size	A	B	C	D	E
EE35020615--	15 x 1/2" x 15	15	1/2"	26	21	68
GG35020615--	22 x 1/2" x 22	22	1/2"	31	25	73
GG45020615--	22 x 3/4" x 22	22	3/4"	33	25	77



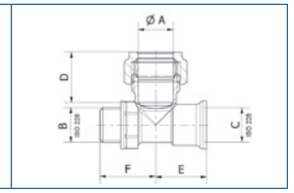
Tee with Female Branch - 617

Code	Fitting size	A	B	C	D
TT31020617--	14 x 14 x 1/2"	14	1/2"	62	21
EE11020617--	15 x 15 x 1/4"	15	1/4"	63	21
EE31020617--	15 x 15 x 1/2"	15	1/2"	66	21
EE41020617--	15 x 15 x 3/4"	15	3/4"	74	21
UU41020617--	16 x 16 x 3/4"	16	3/4"	74.5	21.5
FF31020617--	18 x 18 x 1/2"	18	1/2"	72	24
FF41020617--	18 x 18 x 3/4"	18	3/4"	80	24
GG31020617--	22 x 22 x 1/2"	22	1/2"	73	25
GG51020617--	22 x 22 x 1"	22	1"	88	25
HH41020617--	28 x 28 x 3/4"	28	3/4"	80	26
DD25020617--	12 x 12 x 3/8"	12	3/8"	61	20.5
DD35020617--	12 x 12 x 1/2"	12	1/2"	67	24
EE35020617--	15 x 15 x 1/2"	15	1/2"	66	21
GG35020617--	22 x 22 x 1/2"	22	1/2"	73	25
GG45020617--	22 x 22 x 3/4"	22	3/4"	78	25
HH35020617--	28 x 28 x 1/2"	28	1/2"	77	26
HH55020617--	28 x 28 x 1"	28	1"	86	26



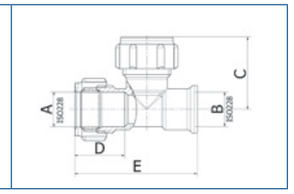
Tee with Male End - 631

Code	Fitting size	A	B	C	D	E	F
E3E5020631--	15 x 1/2" x 15	15	1/2"	34	21	26	48
G4G5020631--	22 x 3/4" x 22	22	3/4"	37	25	33	70



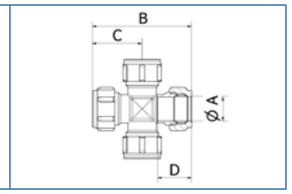
Tee with Male and Female Ends - 645

Code	Fitting size	A	B	C	D	E	F
33E1020645--	1/2 x 1/2 x 15	15	1/2"	1/2"	21	23	25



Tee with Female End - 684

Code	Fitting size	A	B	C	D	E
G3G1020684--	22 x 1/2" x 22	22	1/2"	22	36	60.5
G4G1020684--	22 x 3/4" x 22	22	3/4"	22	40	66
H5H1020684--	28 x 1" x 28	28	1"	45	26	79
E3E5020684--	15 x 1/2" x 15	15	1/2"	15	33	35
G3G5020684--	22 x 1/2" x 22	22	1/2"	22	36	60.5



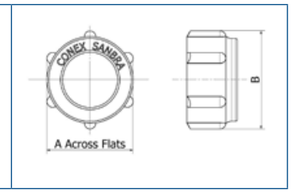
Cross - Equal - 901

Code	Fitting size	A	B	C	D
EEEE1020901-	15 x 15 x 15 x 15	15	63	32	21
GGGG1020901	22 x 22 x 22 x 22	22	74	37	25

an IBP GROUP company

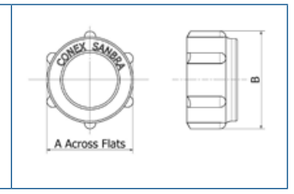
Range code:

Brass DZR Red brass



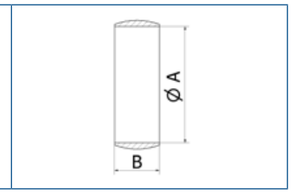
Capnut - 63

Code	Fitting size	A	B
A--1020063--	6	13	15
B--1020063--	8	16	18
C--1020063--	10	18	21
D--1020063--	12	20	22
T--1020063--	14	23	26
E--1020063--	15	24	27
U--1020063--	16	25	28
F--1020063--	18	27	31
G--1020063--	22	32	37
H--1020063--	28	39	45
J--1020063--	35	47	50
K--1020063--	42	55	59
N--1020063--	54	70	76



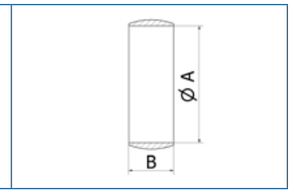
Blank Capnut - 63B

Code	Fitting size	A	B
B--1020063B-	8	16	18
C--1020063B-	10	18	21
D--1020063B-	12	20	22
E--1020063B-	15	24	27
F--1020063B-	18	18	8
G--1020063B-	22	32	37
H--1020063B-	28	39	45
J--1020063B-	35	47	50
K--1020063B-	42	55	59
N--1020063B-	54	70	76



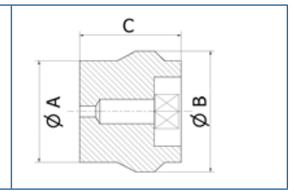
Compression Ring (Imperial) - 65

Code	Fitting size	A	B
04-1020065--	3/4"	3/4" (24)	8.5
05-1020065--	1"	1" (31)	8.5
06-1020065--	1 1/4"	1 1/4" (38)	9.5
30-1020065--	3"	3" (80)	15



Compression Ring - 65

Code	Fitting size	A	B
A--1020065--	6	6	6.2
B--1020065--	8	8	6.2
C--1020065--	10	10	7.2
D--1020065--	12	12	8
T--1020065--	14	14	8
E--1020065--	15	15	8
U--1020065--	16	16	8
F--1020065--	18	18	8
V--1020065--	20	20	8
G--1020065--	22	22	9
H--1020065--	28	28	9
J--1020065--	35	35	10
K--1020065--	42	42	10
N--1020065--	54	54	13
Q--1020065--	67	67	14
R--1020065--	76	76	15
S--1020065--	108	108	17

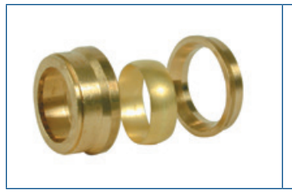


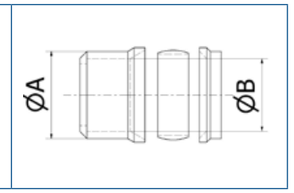
Air Vent - 63V

Code	Fitting size	A	B	C
E--1020063V	15	15	18	13

Range code:

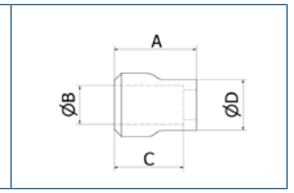
Brass DZR Red brass





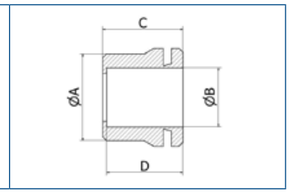
Internal Reducer - S68

Code	Fitting size	A	B
KJ-1022068--	42 x 35	42	35
NJ-1022068--	54 x 35	54	35
NK-1022068--	54 x 42	54	42
CB-5020068--	10 x 8	10	8
DB-5020068--	12 x 8	12	8
DC-5020068--	12 x 10	12	10
EB-5020068--	15 x 8	15	8
EC-5020068--	15 x 10	15	10
ED-5020068--	15 x 12	15	12
ET-5020068--	15 x 14	15	14
FD-5020068--	18 x 12	18	12
FE-5020068--	18 x 15	18	15
FY-5020068--	18 x 16	18	16
GD-5020068--	22 x 12	22	22
GE-5020068--	22 x 15	22	15
GF-5020068--	22 x 18	22	18
HE-5020068--	28 x 15	28	15
HF-5020068--	28 x 18	28	18
HG-5020068--	28 x 22	28	22
JE-5020068--	35 x 15	35	15
JG-5020068--	35 x 22	35	22
JH-5020068--	35 x 28	35	28
KE-5020068--	42 x 15	42	15
KG-5020068--	42 x 22	42	22
KH-5020068--	42 x 28	42	28
KJ-5020068--	42 x 35	42	35
NE-5020068--	54 x 15	54	15
NG-5020068--	54 x 22	54	22
NH-5020068--	54 x 28	54	28
NJ-5020068--	54 x 35	54	35
NK-5020068--	54 x 42	54	42
KJ-1222068--	42 x 35	42	35
NJ-1222068--	54 x 35	54	35
NK-1222068--	54 x 42	54	42
QN-2020068--	67 x 54	67	54
RQ-2020068--	76 x 67	76	67
RN-2020068E-	76 x 54	76	54



Internal Reducer - 68S (for copper tube only)

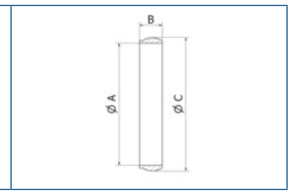
Code	Fitting size	A	B	C	D
BA-5020068S-	8 x 6	13	6	11	8



Male to Female Adaptor - S68SP

(for copper tube only)

Code	Fitting size	A	B	C	D
CB-5020M68SP	10 x 8	10	8	14	13
DB-5020M68SP	12 x 8	12	8	15	14
DC-5020M68SP	12 x 10	12	10	15	14
EB-5020M68SP	15 x 8	15	8	14.5	13.5
EC-5020M68SP	15 x 10	15	10	14.5	13.5
ED-5020M68SP	15 x 12	15	12	17.5	16.5
FD-5020M68SP	18 x 12	18	12	18	17
FE-5020M68SP	18 x 15	18	15	18	17
GD-5020M68SP	22 x 12	22	12	17.5	16.5
GE-5020M68SP	22 x 15	22	15	17.5	16.5
GF-5020M68SP	22 x 18	22	18	17.5	16.5
HE-5020M68SP	28 x 15	28	15	21	20
HF-5020M68SP	28 x 18	28	18	21	20
HG-5020M68SP	28 x 22	28	22	21	20
JG-5020M68SP	35 x 22	35	22	24	23
JH-5020M68SP	35 x 28	35	28	24	23

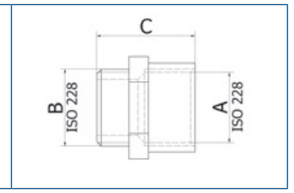


Metric to Imperial Adaptor Ring - S68S

Code	Fitting size	A	B	C
K071020068S-	42 mm x 1-1/2"	41	11	44
S405020068S-	108 x 4"	108	29	114

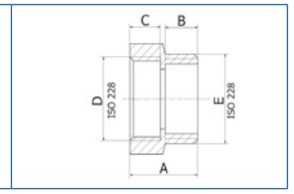
Range code:

Brass DZR Red brass



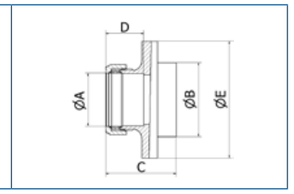
Male to Female Adaptor - 72

Code	Fitting size	A	B	C
03-1020072--	1/2"	1/2"	1/2	22
04-1020072--	3/4"	3/4"	3/4	34



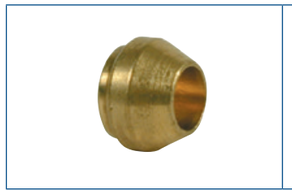
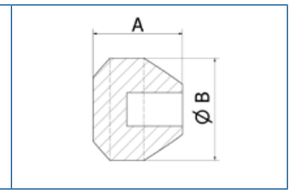
Adaptor for Tap Extension - 74

Code	Fitting size	A	B	C	D	E
04-1020074--	3/4"	3/4"	3/4	10	11	23



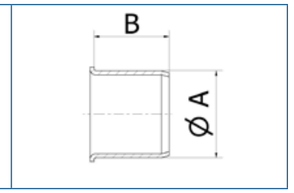
External Reducer - G68E

Code	Fitting size	A	B	C	D	E
RN-2020068E-	76 x 54	76	54	70	36	120

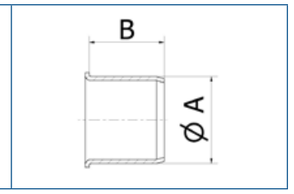
Blank Piece - S61

Code	Fitting size	A	B
B--5020061--	8	8	11
C--5020061--	10	10	12
D--5020061--	12	12	14
E--5020061--	15	15	18
F--5020061--	18	18	20
G--5020061--	22	22.5	25
H--5020061--	28	28	32
J--5020061--	35	35	39



Soft Copper Liner - SC1

Code	Fitting size	A	B
C103031000SC	10 x 1.0	9.5	7.75
D103031000SC	12 x 1.0	11.5	9.75
E103031000SC	15 x 1.0	14.5	12.75
UT-3020000SC	16 x 1.0	15.5	13.75
F103031000SC	18 x 1.0	17.5	15.75
G103031000SC	22 x 1.0	21.5	19.75
H103031000SC	28 x 0.8	27.5	28

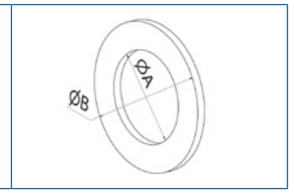


Internal Liner - PP (PE-X / PB)

Code	Fitting size	A	B
C183031000PP	10 mm - Pe-X / PB	10	6.5
E183031000PP	15 mm - PB	15	11.2
E183031000PP	15 mm - PE-X	15	11.5
G183031000PP	22 mm - PE-X/PB	22	17.5
H293031000PP	28 mm - PE-X/PB	28	22.4

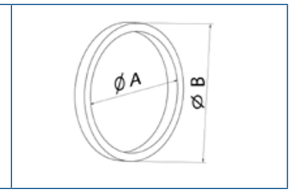
Range code:

Brass DZR Red brass



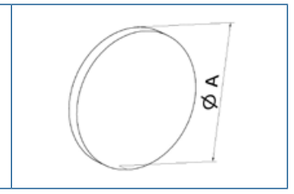
Brass Washer - 96

Code	Fitting size	A	B
03-1020096---	1/2"	22	50
04-1020096--	3/4"	27	56
05-1020096--	1"	34	61



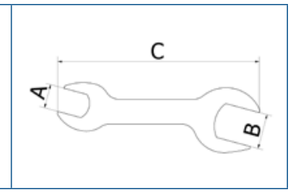
Tap Sealing Washer - 97

Code	Fitting size	A	B
03-9020097--	1/2"	14.5	18.5
04-9020097--	3/4"	19.5	24



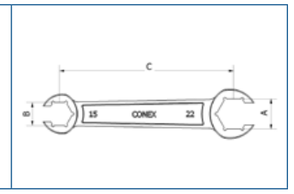
Blank Capnut Rubber Washer - 98

Code	Fitting size	A
E--9020098--	15	18.6
G--9020098--	22	26.2
H--9020098--	28	32.5
J--9020098--	35	40
K--9020098--	42	47



Capnut Spanner Zinc Plated - 85

Code	Fitting size	A	B	C
GE-9520085--	22 x 15	22	15	185



'C' Capnut Ring Spanner Zinc Plated - 85R

Code	Fitting size	A	B	C
GE-9020085R-	22 x 15	22	15	190

Right to make amendments / Liability declaration

Please note that all illustrations, measurements and instructions in this document are a representation of Conex Compression fittings. These are not binding and we reserve the right to make amendments without notice. Please note technical advice is based on the current knowledge of the department at the time of creation and publication – 2019/08.

8.0 Guarantee

When professionally installed, used and maintained in accordance with the installation and maintenance instructions detailed in the Conex Compression Technical Brochure. Conex Universal Ltd. guarantees that Conex Compression fittings supplied by Conex Universal Ltd. will be free of material defects resulting from errors in manufacture, for twenty five (25) years from the date of first purchase by an end user. This Guarantee is limited to the repair or replacement of defective product(s) (at the sole discretion of Conex Universal Ltd.). At the request of Conex Universal Ltd. the allegedly defective product(s) must be returned to the address adjacent* and Conex Universal Ltd. reserves the right to inspect and test the alleged defects. This guarantee provided by Conex Universal Ltd. does not affect your statutory rights.

The guarantee set out above is given by Conex Universal Ltd. and subject to the following conditions:

A. Any alleged defects must be reported to Conex Universal Ltd. within one month of the first occurrence of any such alleged defect, clearly setting out the nature of the claim and the circumstances surrounding it.

B. Conex Universal Ltd. shall be under no liability in respect of any defect in any product arising from:

- defective installation,
- fair wear and tear,
- wilful damage,
- negligence of any party other than Conex Universal Ltd.,
- abnormal working or environmental conditions,
- failure to follow the instructions of Conex Universal Ltd.,
- misuse (which includes any use of the product(s) concerned for a purpose or in a situation / environment or for an application other than that for which it was designed), or
- alteration or repair of any product without the prior approval of Conex Universal Ltd.

C. At the request of Conex Universal Ltd. the person claiming under this guarantee must deliver to Conex Universal Ltd. written evidence of the date of first purchase by an end user of the product(s) concerned.

*** The address for returns is:**
Customer Services
Conex Universal Limited
Global House
95 Vantage Point
The Pensnett Estate
Kingswinford
West Midlands
DY6 7FT
UNITED KINGDOM