

Conex | Bänninger

>B< Press Gas



 >B< Press Gas Technical Brochure

12 to 54mm

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# 1. General

>B< Press Gas fittings are quick and easy to install and are available in copper and copper alloy for connecting to copper tube. This flame-free range is designed with a 3-point press system that ensures a secure, permanent leak-free joint that is suitable for various gas, oil and compressed air applications.

## 1.1 Quality and certifications

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

>B< Press Gas fittings fully comply with the requirements for gas press fittings as specified in EN1254-7, BS 8537 & DVGW G 5614.

>B< Press Gas certifications are listed in Table 1:

Table 1

Certification - Gas	
>B< Press Gas 12 to 54mm	
ARGB-KVBG	Belgium
BSI Kitemark	UK
Certigaz	France
DVGW	Germany
Garant	Russia
INig	Poland
ITG	Bosnia
KIWA Gastec Qa	Netherlands
SVGW	Switzerland
SZU	Czech Republic
TSU	Slovakia
TYSK	Ukraine

**Note:** please refer to the country's standards for the use of the fittings.

## 1.2 Features and benefits

- Suitable for natural gas, LPG, fuel oil and compressed air applications.
- Maximum operating pressure 5 bar.
- Maximum operating temperature 70°C.
- Patented unique unpressed joint indicator for added safety.
- Quick and easy to install, saving on labour time.
- Permanent, flame-free connection - no hot works permit required.
- Suitable for use with hard, half-hard and soft copper tubes to EN 1057 (for full tube compatibility please visit: [www.conexbanninger.com](http://www.conexbanninger.com), or contact the technical department at: [technical@ibpgroup.com](mailto:technical@ibpgroup.com)).

- Manufactured using high quality materials to applicable standards.
- Tested and approved by national and international standard authorities.
- Twenty five year product guarantee, for full terms and conditions please see section 9.
- 3-point press safety feature for added security.
- No soldering or brazing consumables required.
- Comprehensive range of fittings - sizes from 12 to 54mm.
- Compatible with commonly available press tools (for full press tool compatibility please visit: [www.conexbanninger.com](http://www.conexbanninger.com), or contact the technical department at: [technical@ibpgroup.com](mailto:technical@ibpgroup.com)).

## 1.3 Materials and threads

>B< Press Gas fitting bodies are produced from copper and copper alloy materials.

Copper fittings are made from oxygen-free copper CU-DHP (material number EN 12165 CW024A).

Copper alloy fittings are produced from Red brass (gunmetal): EN 1982, CC 499K.

## 1.4 Threaded connections

>B< Press Gas fittings are available with male and female threaded connections to the following specification:

- Jointing threads are to ISO 7-1 and EN 10226-1 (Female are parallel and male are taper).
- Fastening threads are to ISO 228-1 parallel.

## 1.5 O-ring colour and body paint marking

>B< Press gas features a yellow O-ring coupled with a yellow marking on the body.

The distinctive yellow O-ring and yellow body marking clearly identify the fittings are for gas applications.



**1.6 Storage and handling**

Store in a cool and dry place to protect the fittings from contamination, damage and dirt. Keep out of direct sunlight. Fittings should be left in their packaging to preserve the lubrication on the O-rings prior to installation.

**Important, >B< Press Gas: NO** other lubricants such as oils or greases should be applied to the O-ring.

**1.7 Sealing elements (O-ring)**

>B< Press Gas fittings O-rings are made of elastomer HNBR yellow material with designed to meet the requirements of EN 549 and EN 682.

Please refer to section 2 for operating parameters for the different applications.

**1.8 Unpressed joint indicator**

>B< Press Gas benefits from patented 'unpressed joint indicator' O-ring technology (12 to 54mm) which highlights any unpressed connections at test pressures of 22 mbar to 3.0 bar.

**1.9 System testing**

Testing shall be carried out in accordance with the requirements of EN 1775 (see section 4).

**1.10 Electrical continuity**

>B< Press Gas copper and red brass fittings maintain earth continuity without the need for additional continuity straps.

**1.11 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.

**1.12 Tube compatibility**

>B< Press Gas fittings can be used on hard, half-hard and soft copper tube to EN 1057.

## 2. Product Suitability & Applications

The application parameters referred to, and the tube compatibility must be adhered to when using and connecting >B< Press Gas copper and copper alloy fittings (for full tube compatibility please visit: [www.conexbanninger.com](http://www.conexbanninger.com), or contact the technical department at: [technical@ibpgroup.com](mailto:technical@ibpgroup.com)).

Table 2

Application	Flow medium	Pressure bar	Temp °C
Natural gas installations EN 1775	Gas class combustion gases	PN 5 GT/1	-20 to 70
LPG, Liquefied petroleum gas installations	Gas class combustion gases	PN 5 GT/1	-20 to 70
Fuel oil supply systems	Heating oil	PN 5	0 to 40
Compressed air systems	Compressed air of all classes as per ISO 8573-1	10 max	≤60

For applications outside those stated in the table above, please contact the technical department: [technical@ibpgroup.com](mailto:technical@ibpgroup.com).

**Note:** Installations need to comply to the relevant standards and local regulations. Where temperatures fluctuate and buildings move this can cause significant stress to the pipe system, therefore measures must be taken to prevent the pipe system from moving (EN 1775 4.3.6).

## 3. Corrosion Resistance

### 3.1 External corrosion

Pipework may need to be protected from external corrosion causing construction materials, corrosive environments or abrasion. A variety of solutions are available, ducting, insulation, corrosion resistant paint finishes and anti-abrasive tape, the most effective solution should be chosen.

## 4. Testing & Commissioning

Testing shall be carried out in accordance with the requirements of EN 1775.

During testing, any joints identified as unpressed and are showing signs of leakage should be pressed upon the return to atmospheric pressure, however it is essential the tube is fully inserted to the tube stop prior to pressing.

The use of a suitable leak detector spray or portable gas leak detection tool is recommended in order to identify any unpressed joints.



## 5 Compatible Press Tools

### 5.1 Tool chart


Table 3

12 to 35mm Compact machines			
Manufacturer	Press machine	Press jaws	Jaw profile
Rothenberger	Romax Compact	Rothenberger - Compact	SV
	Romax Compact TT	Rothenberger - Compact	SV
Rems	Mini Press ACC	Rems - Mini	V
Klauke	MAP1/MAP2L/MAP215	Klauke - SBM	KSP4
	MAP219/MAP2L19	Klauke - SBMX	KSP4
Novopress	ACO102/ACO103	NovoPress - V-PB1	V
Milwaukee	M12	Milwaukee - J12	V
Hilti	NPR 019 IE-A22	Hilti - NPR PM V	V
Ridgid	RP 200/210/240/241	Ridgid - Compact Series	V
Conel	PM 1	Conel - V-PB1	V
Viega	Picco	Viega Picco	PT2

Table 4

12 to 54mm Standard 32 kN machines			
Manufacturer	Press machine	Press jaws	Jaw profile
Rothenberger	Romax 3000/4000	Rothenberger - Standard*	SV
Rems	Power-Press/ Akku-Press	Rems - Standard*	V
Novopress	ECO/ACO202/203	Novopress - V-PB2*	V**
Conel	PM 2	Conel - V-PB2*	V
Klauke	UAP2/UAP3L/UAP332	Klauke - Standard SB*	KSP4
Ridgid	RP 320/330/340	Ridgid - Standard Series*	V
Hilti	NPR 032 IE-A22	Hilti - NPR PS V*	V
Milwaukee	M18	Milwaukee - J18*	V**
Viega	Pressgun 5/6	Viega Standard*	PT2

\* Press Jaw only - not press slings, collars, chains or rings.

\*\* Novopress & Milwaukee jaws with the marking  only

For inter tool compatibility please refer back to the manufacturer.

>B< Press Gas fittings are installed using a press tool and jaw. Jaws are sized to match the fitting required. When force is exerted through the press tool the jaw closes to make a permanent joint.



## 6 Installation Requirements

### 6.1 Space required for the pressing process

The following minimum clearances are required from structural components to allow operation of tool for press fitting.

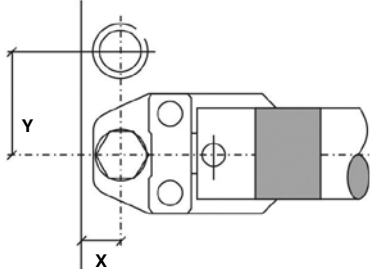


Table 5

Space required for the pressing process between fittings		
External tube	X	Y
Size mm	mm	mm
12	26	51
14	26	53
15	26	53
16	26	53
18	26	54
22	26	54
28	33	69
35	33	73
42	75	115
54	85	120

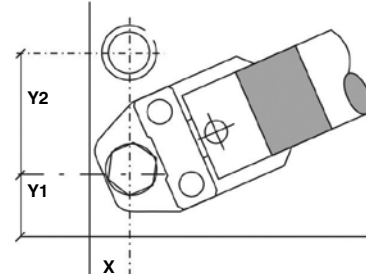


Table 6

Space required for the pressing process between fittings			
External tube	X	Y1	Y2
Size mm	mm	mm	mm
12	31	45	71
14	31	55	73
15	31	45	73
16	31	55	73
18	31	45	74
22	31	45	76
28	38	55	80
35	38	55	85
42	75	75	115
54	85	85	140

### 6.2 Insertion depth and minimum distances between pressings

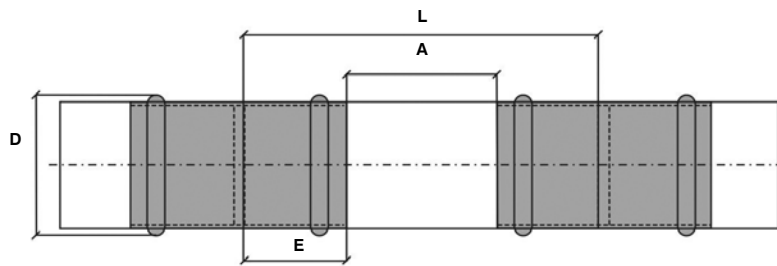


Table 7

Insertion depth and minimum distance between pressings				
Size	External - Ø pressing bead	Minimum distance	Minimum tube length	Insertion depth
mm	D - mm	A - mm	L - mm	E - mm
12	19	10	46	18
14	21.6	10	54	22
15	22.6	10	54	22
16	23.8	12	56	22
18	25.6	15	59	22
22	31	20	66	23
28	37	20	68	24
35	44	25	77	26
42	53.4	30	102	36
54	65.4	35	115	40

Due to reforming of the tube profile when pressed, it is advised that a minimum distance is allowed between each fitting.

**6.3 Minimum distance for press fittings from an existing brazed joint**

To ensure proper sealing of both the brazed and pressed joints, the following minimum distances must be maintained between the joints. Please see Table 8 for further information.

Table 8

Minimum distance from a brazed joint	
Tube size	mm
12	5
14	5
15	5
16	5
18	5
22	5
28	5
35	10
42	15
54	20

**6.4 Minimum brazing distance to an existing pressed fitting**

Caution: Brazing or soldering near to >B< Press joints should be avoided as this may cause the seal to degrade due to heat transfer. Table 9 states the minimum distance away from the press joint which is acceptable to braze. If this distance cannot be maintained then adequate precautions must be taken such as fabricating the brazed section prior to assembly with the press fittings, wrapping in a wet rag or applying a heat block, to prevent heat transfer to the press fitting during brazing.

Table 9

Minimum distance brazing	
Tube size	mm
12	350
14	400
15	450
16	450
18	500
22	600
28	700
35	900
42	1200
54	1500

**6.5 >B< Press tube compatibility table**

>B< Press fittings can be used on hard, half-hard and soft copper tube to EN 1057 with the wall thicknesses stated below.

Table 10

Tube O/D	Tube wall thickness (mm)					
	Copper - R220		Copper - R250		Copper - R290	
12	0.6	–	0.8	1.0	1.0	–
14	1.0	–	1.0	1.0	1.0	–
15	1.0	–	0.7	1.0	1.0	–
16	1.0	–	1.0	1.0	1.0	–
18	1.0	–	0.8	1.0	1.0	–
22	1.0	1.2	0.9	1.1	1.0	1.5
28	–	–	0.9	1.2	1.0	1.5
35	–	–	1.2	–	1.0	1.5
42	–	–	1.2	–	1.0	1.5
54	–	–	1.2	–	1.2	2.0

>B< Press red brass fittings can also be used to connect stainless steel tube in accordance with EN 10312 parts 1 and 2. For more information please contact the technical department on [technical@ibpgroup.com](mailto:technical@ibpgroup.com).



## 7. >B< Press Gas Installation Process

Leave the fittings in the packaging prior to final installation to protect them from contamination and to preserve the lubrication of the O-rings. Please note the space required for pressing tools (see section 6).



**1. Cut tube to length**

- Use a rotary tube cutter.
- Ensure that the tube is cut square.
- Check the tube has retained its shape and is damage free.



**2. Deburr**

- Deburr the tube both internally and externally.
- Where possible angle the tube downwards to prevent filings entering the tube.
- Make sure the internal and external surfaces of the tube ends are smooth and free from burrs or sharp edges.
- **Important:** Please ensure that the tube surface is free from any deep scores or scratches.



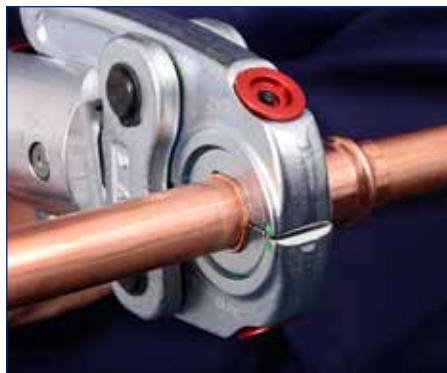
**3. Check the fittings**

- Check the fitting is the correct size for the tube.
- Check the O-rings are present and correctly seated.
- **IMPORTANT: No other lubricants such as oils or greases should be used.**



**4. Assemble & mark the insertion depth**

- The tube **must** be fully inserted into the fitting until it reaches the tube stop.
- To reduce the risk of dislodging the O-ring, rotate the tube (if possible) while slipping it into the fitting.
- Mark the insertion depth on the tube.
- **Prior to pressing ensure the tube has not moved out from the fitting socket.**



**5. Complete joint with the press tool**






























- Ensure pipework is correctly aligned prior to pressing.
- Ensure the correct size jaw is inserted into the tool.
- The jaws **must** be placed squarely on the fitting, locating the groove on the bead.
- The bead on the fitting should fit centrally in the groove of the jaw.
- Depress and hold the start button on the press tool to complete the pressing cycle.
- Pressing is complete when the jaws are fully closed.
- **IMPORTANT: The joint is complete after one full cycle of the tool. DO NOT crimp any fitting more than once.**



**6. Mark the completed joint**

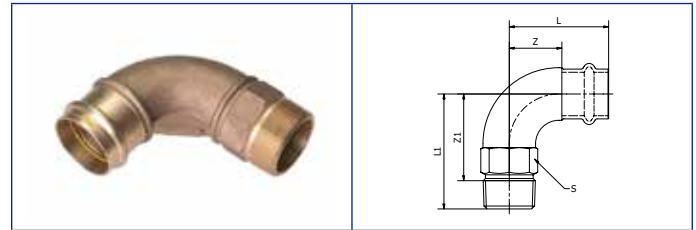
- Mark the completed joint after pressing.
- This enables joints to be inspected easily before testing.

## 8. The Range

<p><b>PG4001G*</b> 90° Bend with Male Thread - ISO 7-1</p> 	<p><b>PG4090G*</b> 90° Elbow with Female Thread - ISO 7-1</p> 	<p><b>PG4096G*</b> Female Elbow Union - ISO 7-1</p> 	<p><b>PG4130G*</b> Tee - Female Threaded Branch - ISO 7-1</p> 	<p><b>PG4132G*</b> Male branch Tee - ISO 7-1</p> 
<p><b>PG4243G*</b> Male Straight Connector - ISO 7-1</p> 	<p><b>PG4270G*</b> Female Straight Connector - ISO 7-1</p> 	<p><b>PG4275*</b> Slip Coupler</p> 	<p><b>PG4330*</b> Union</p> 	<p><b>PG4330G*</b> Female Straight Union Connector - ISO 7-1</p> 
<p><b>PG4331G*</b> Male Straight Union Connector - ISO 7-1</p> 	<p><b>PG4359G*</b> Flat Faced Union with Gasket - ISO 228</p> 	<p><b>PG4379G*</b> Flat Faced Union with Gasket - ISO 228</p> 	<p><b>PG4471G*</b> Wall Plate Elbow - ISO 7-1</p> 	<p><b>PG5001</b> 90° Street Bend</p> 
<p><b>PG5002</b> 90° Bend</p> 	<p><b>PG5002L</b> 90° Bend Long</p> 	<p><b>PG5040</b> 45° Obtuse Street Bend</p> 	<p><b>PG5041</b> 45° Obtuse Bend</p> 	<p><b>PG5085*</b> Crossover Coupler</p> 
<p><b>PG5086*</b> 45° Crossover Street Coupler</p> 	<p><b>PG5130</b> Tee - Equal</p> 	<p><b>PG5130RB</b> Tee - Reduced Branch</p> 	<p><b>PG5130RBE</b> Tee - Reduced Both Ends</p> 	<p><b>PG5130RE</b> Tee - Reduced End</p> 
<p><b>PG5130REB</b> Tee - Reduced End &amp; Branch</p> 	<p><b>PG5243</b> Fitting Reducer</p> 	<p><b>PG5270</b> Straight Coupler</p> 	<p><b>PG5301</b> Stop End</p> 	

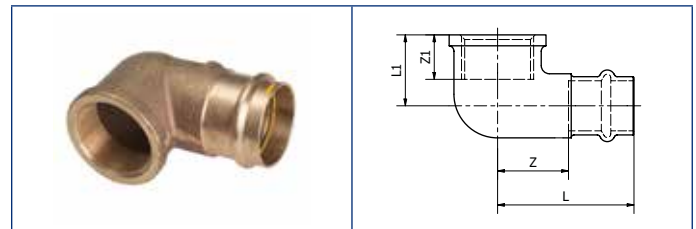
IMPORTANT: The Gas fittings have a factory applied lubricant. No other/extra lubricants such as oils or greases should be applied to the fittings O-rings.

\*Use in accordance with the standards in the relevant country.



**PG4001G\***  
**90° Bend with Male Thread - ISO 7-1**

Code	Fitting size	L	L1	Z	Z1	S
PG4001G0150400	15 x 1/2"	45	48	21	34.8	20.5
PG4001G0180400	18 x 1/2"	46	50	22	36.8	20.5
PG4001G0180600	18 x 3/4"	47	56	23	41.5	27
PG4001G0220600	22 x 3/4"	51	59	27	44.5	27
PG4001G0280800	28 x 1"	58	72	34	55.2	36
PG4001G0351000	35 x 1 1/4"	73	89	47	70	44
PG4001G0421200	42 x 1 1/2"	93	97	52	78	52
PG4001G0541600	54 x 2"	110	130	64	106.5	60

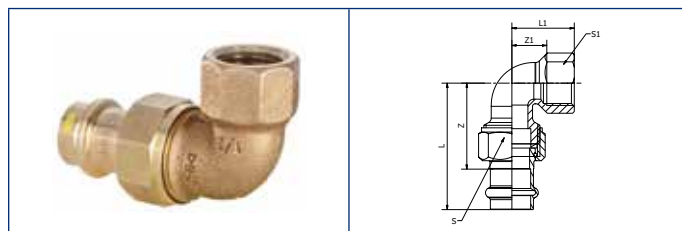


**PG4090G\***  
**90° Elbow with Female Thread - ISO 7-1**

Code	Fitting size	L	L1	Z	Z1
PG4090G0150400	15 x 1/2"	46	21	22	13.5
PG4090G0150600	15 x 3/4"	50	26	26	16.3
PG4090G0180400	18 x 1/2"	45	23.5	21	15
PG4090G0180600	18 x 3/4"	50	26	26	16.3
PG4090G0220400	22 x 1/2"	51	26	27	15
PG4090G0220600	22 x 3/4"	52	27	28	16.3
PG4090G0220800	22 x 1"	59	30	35	19.1
PG4090G0280800	28 x 1"	59	34	35	19.1
PG4090G0351000	35 x 1 1/4"	66	40	40	21.4
PG4090G0421200	42 x 1 1/2"	77	44	36	21.4
PG4090G0541600	54 x 2"	98	55	52	25.7

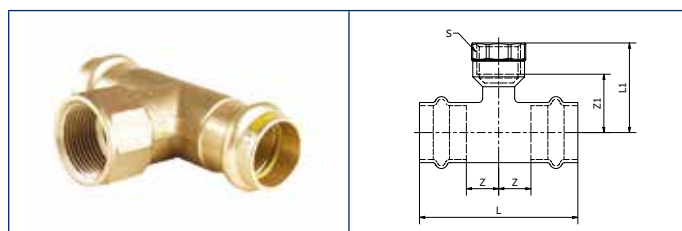
IMPORTANT: The Gas fittings have a factory applied lubricant. No other/extra lubricants such as oils or greases should be applied to the fittings O-rings.

\*Use in accordance with the standards in the relevant country. All above measurements are in mm unless stated differently.



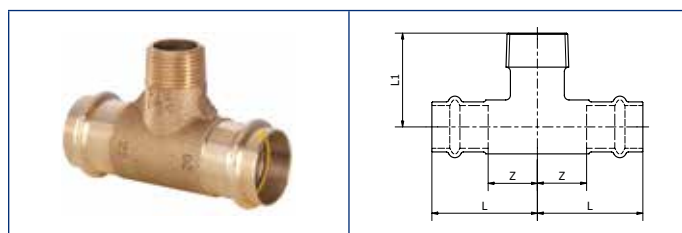
**PG4096G\***  
**Female Elbow Union - ISO 7-1**

Code	Fitting size	L	L1	Z	Z1	S	S1
PG4096G0150400	15 x 1/2"	63.5	33	39.5	18	29	27
PG4096G0220600	22 x 3/4"	74.5	37	50.5	20.5	36.5	33
PG4096G0220800	22 x 1"	76.5	45	52.5	26	36.5	40
PG4096G0280800	28 x 1"	82.5	47	58.5	28	45.5	40



**PG4130G\***  
**Tee - Female Threaded Branch - ISO 7-1**

Code	Fitting size	L	L1	Z	Z1	S
PG4130G0150415	15 x 1/2" x 15	80	20	16	5	24
PG4130G0180418	18 x 1/2" x 18	90	40	21	25	26
PG4130G0220422	22 x 1/2" x 22	84	29	18	14	26
PG4130G0220622	22 x 3/4" x 22	97	45	24.5	28.7	32
PG4130G0280428	28 x 1/2" x 28	89	32	18.5	17	26
PG4130G0280628	28 x 3/4" x 28	105	50	28.5	33.7	32
PG4130G0350435	35 x 1/2" x 35	100	48	24	33	26
PG4130G0420442	42 x 1/2" x 42	110	50	14	35	26
PG4130G0540454	54 x 1/2" x 54	132	55	25	40	26

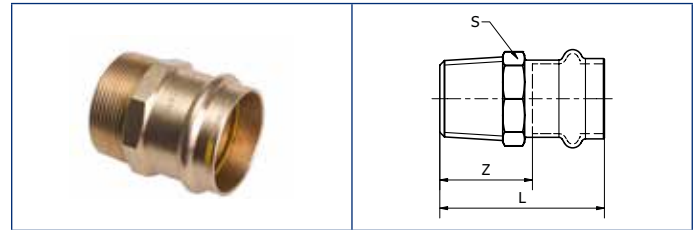


**PG4132G\***  
**Male Branch Tee - ISO 7-1**

Code	Fitting size	L	L1	Z
PG4132G0150415	15 x 1/2" x 15	90	40	21
PG4132G0220622	22 x 3/4" x 22	97	50	24.5
PG4132G0280628	28 x 3/4" x 28	100	45	26

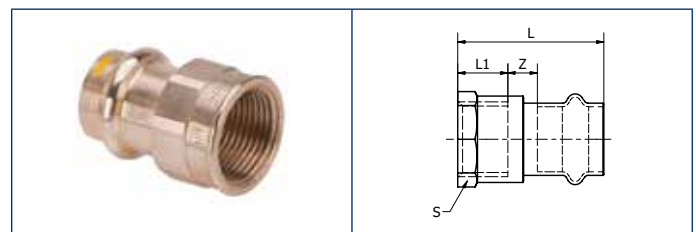
IMPORTANT: The Gas fittings have a factory applied lubricant. No other/extra lubricants such as oils or greases should be applied to the fittings O-rings.

\*Use in accordance with the standards in the relevant country. All above measurements are in mm unless stated differently.



**PG4243G\***  
**Male Straight Connector - ISO 7-1**

Code	Fitting size	L	Z	S
PG4243G0150400	15 x 1/2"	43.5	19.5	22
PG4243G0150600	15 x 3/4"	48.5	24.5	28
PG4243G0180400	18 x 1/2"	43	19	22
PG4243G0180600	18 x 3/4"	46.5	22.5	27
PG4243G0220400	22 x 1/2"	46	22	27
PG4243G0220600	22 x 3/4"	47	23	27
PG4243G0220800	22 x 1"	52	28	34
PG4243G0280600	28 x 3/4"	52	28	33
PG4243G0280800	28 x 1"	53	29	34
PG4243G0281000	28 x 1 1/4"	62	38	42
PG4243G0350800	35 x 1"	52	26	40
PG4243G0351000	35 x 1 1/4"	57	31	43
PG4243G0351200	35 x 1 1/2"	61	35	50
PG4243G0421000	42 x 1 1/4"	65	24	48
PG4243G0421200	42 x 1 1/2"	62.5	29.5	50
PG4243G0541200	54 x 1 1/2"	74.5	28.5	62
PG4243G0541600	54 x 2"	77	31	62

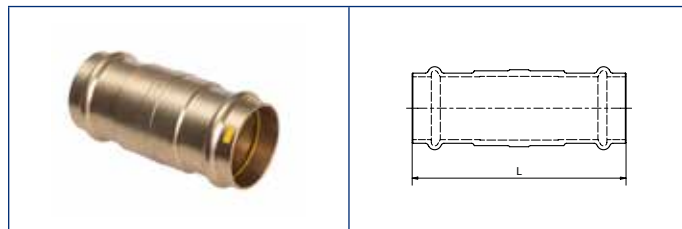


**PG4270G\***  
**Female Straight Connector - ISO 7-1**

Code	Fitting size	L	min L1	Z	S
PG4270G0150400	15 x 1/2"	41	15	2	26
PG4270G0150600	15 x 3/4"	45	16.3	4.7	30.5
PG4270G0180400	18 x 1/2"	41	15	2	26
PG4270G0180600	18 x 3/4"	45	16.3	4.7	30.5
PG4270G0220400	22 x 1/2"	44	15	5	26
PG4270G0220600	22 x 3/4"	45.5	16.3	5.2	30.5
PG4270G0220800	22 x 1"	48	19.1	4.9	37.5
PG4270G0280800	28 x 1"	50.5	19.1	7.4	37.5
PG4270G0351000	35 x 1 1/4"	54	21.4	6.6	47
PG4270G0421200	42 x 1 1/2"	68	21.4	5.6	55
PG4270G0541600	54 x 2"	74	25.7	2.3	70

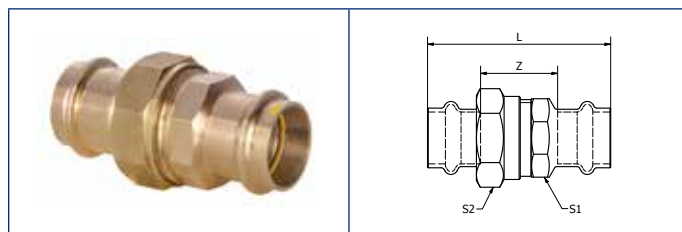
IMPORTANT: The Gas fittings have a factory applied lubricant. No other/extra lubricants such as oils or greases should be applied to the fittings O-rings.

\*Use in accordance with the standards in the relevant country. All above measurements are in mm unless stated differently.



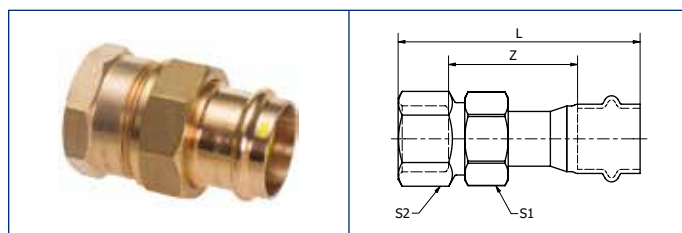
## PG4275\* Slip Coupler

Code	Fitting size	L
PG4275 0120000	12	64
PG4275 0140000	14	80
PG4275 0150000	15	80
PG4275 0160000	16	80
PG4275 0180000	18	80
PG4275 0220000	22	85
PG4275 0280000	28	95
PG4275 0350000	35	105
PG4275 0420000	42	120
PG4275 0540000	54	136



## PG4330\* Union

Code	Fitting size	L	Z	S1	S2
PG4330 0150000	15	78.5	29	25	30.5
PG4330 0220000	22	89	36.5	31	41
PG4330 0280000	28	96.5	45.5	39	48.5
PG4330 0350000	35	99.5	52	45	45.5



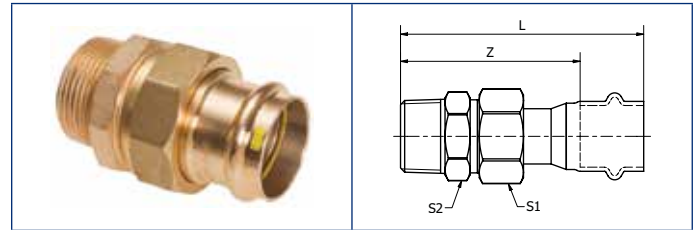
## PG4330G\* Female Straight Union Connector - ISO 7-1

Code	Fitting size	L	Z	S1	S2
PG4330G01504000	15 x 1/2"	63	39	29	27
PG4330G0150600	15 x 3/4"	67.5	43.5	29	30.5
PG4330G01804000	18 x 1/2"	61.5	37.5	29	27
PG4330G02206000	22 x 3/4"	71.5	47.5	36.5	36
PG4330G0220800	22 x 1"	81	57	36.5	40
PG4330G02808000	28 x 1"	77	53	45.5	42
PG4330G0351000	35 x 1 1/4"	80.5	54.5	52	50

IMPORTANT: The Gas fittings have a factory applied lubricant. No other/extra lubricants such as oils or greases should be applied to the fittings O-rings.

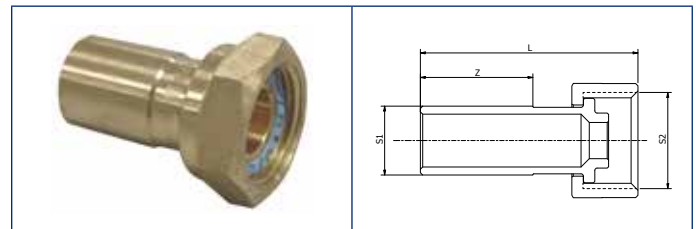
\*Use in accordance with the standards in the relevant country. All above measurements are in mm unless stated differently.





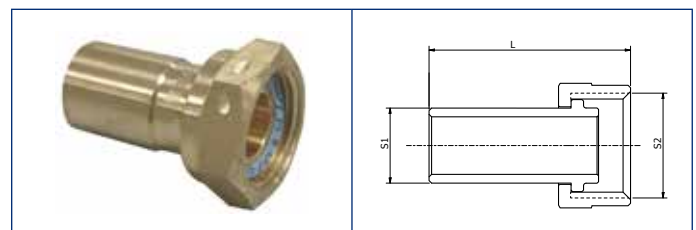
**PG4331G\***  
**Male Straight Union Connector - ISO 7-1**

Code	Fitting size	L	Z	S1	S2
PG4331G01504000	15 x 1/2"	65.5	41.5	29	27
PG4331G0150600	15 x 3/4"	69	45	29	27
PG4331G0220400	22 x 1/2"	72.5	48.5	36.5	33
PG4331G02206000	22 x 3/4"	74.	50	36.5	33.5
PG4331G0220800	22 x 1"	77	53	36.5	33.5
PG4331G0280800	28 x 1"	80	56	45.5	44
PG4331G0351000	35 x 1 1/4"	85	59	52	50



**PG4359G\***  
**Flat Faced Union with Gasket - ISO 228**

Code	Fitting size	L	Z	S1	S2
PG4359G0120400	12 x 1/2"	43.5	20.5	12	1/2"
PG4359G0140400	14 x 1/2"	46.5	21.5	14	1/2"
PG4359G0150400	15 x 1/2"	45.5	24.5	15	1/2"
PG4359G0160600	16 x 3/4"	52.5	24.5	16	3/4"
PG4359G0180600	18 x 3/4"	52.0	24.5	18	3/4"
PG4359G0220600	22 x 3/4"	50.5	25.0	22	3/4"



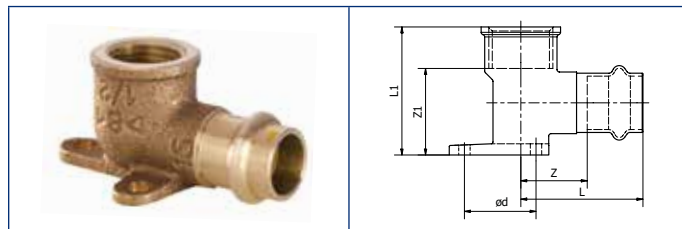
**PG4379G\***  
**Flat Faced Union with Gasket - ISO 228**

Code	Fitting size	L	S1	S2
PG4379G0222000	22	45.6	22	3/4"

IMPORTANT: The Gas fittings have a factory applied lubricant. No other/extra lubricants such as oils or greases should be applied to the fittings O-rings.

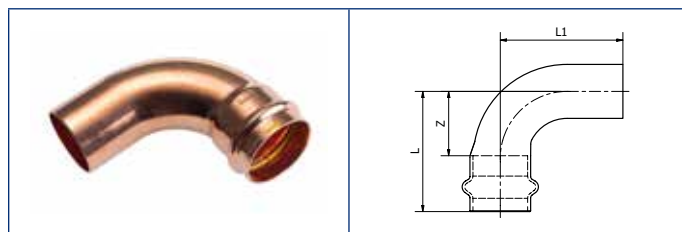
\*Use in accordance with the standards in the relevant country. All above measurements are in mm unless stated differently.





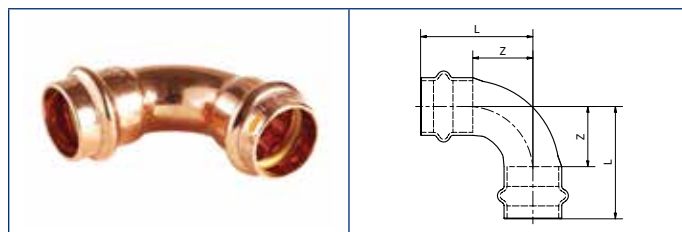
## P4471G\* Wall Plate Elbow - ISO 7-1

Code	Fitting size	L	L1	Z	Z1	ød
PG4471G0150400	12 x 1/2"	40	33	22	18	40
PG4471G0180400	18 x 1/2"	45	36.5	21	21.5	40
PG4471G0220600	22 x 3/4"	52	48	28	31.7	50



## PG5001 90° Street Bend

Code	Fitting size	L	L1	Z
PG5001 0120000	12	33	35	15
PG5001 0140000	14	37.5	39.5	15.5
PG5001 0150000	15	38	44	16
PG5001 0160000	16	40	42	18
PG5001 0180000	18	40	46	18
PG5001 0220000	22	42	52	19
PG5001 0280000	28	55	60	31
PG5001 0350000	35	59	70	41
PG5001 0420000	42	87	89	51
PG5001 0540000	54	105	107	65

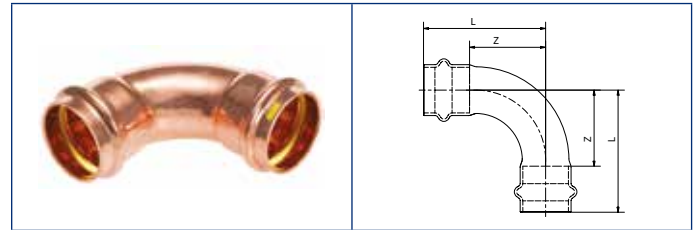


## PG5002 90° Bend

Code	Fitting size	L	Z
PG5002 0120000	12	33	15
PG5002 0140000	14	37.5	15.5
PG5002 0150000	15	38	16
PG5002 0160000	16	40	18
PG5002 0180000	18	44	22
PG5002 0220000	22	42	19
PG5002 0280000	28	55	31
PG5002 0350000	35	69	43
PG5002 0420000	42	87	51
PG5002 0540000	54	105	65

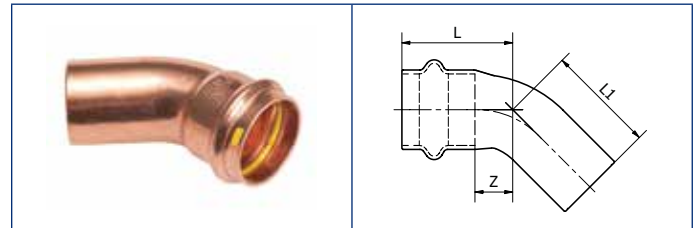
IMPORTANT: The Gas fittings have a factory applied lubricant. No other/extra lubricants such as oils or greases should be applied to the fittings O-rings.

\*Use in accordance with the standards in the relevant country. All above measurements are in mm unless stated differently.



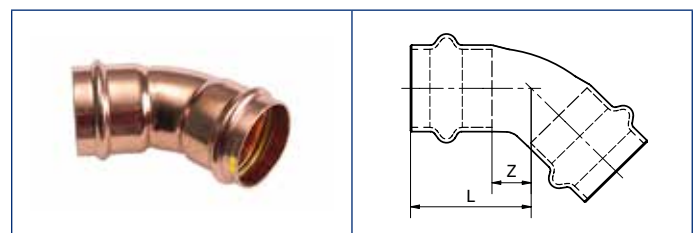
**PG5002L**  
**90° Bend Long**

Code	Fitting size	L	Z
PG5002L0220000	22	50	27



**PG5040**  
**45° Obtuse Street Bend**

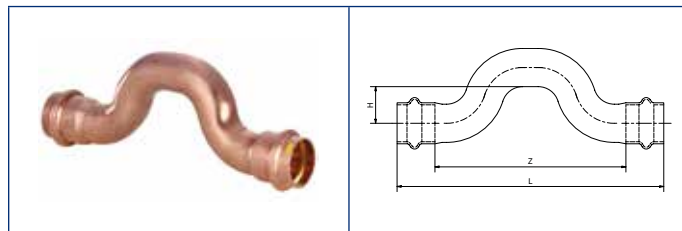
Code	Fitting size	L	L1	Z
PG5040 0120000	12	24	26	6
PG5040 0140000	14	30	32	8
PG5040 0150000	15	30	32	8
PG5040 0160000	16	30	32	8
PG5040 0180000	18	31	33	9
PG5040 0220000	22	34	36	11
PG5040 0280000	28	38	40	14
PG5040 0350000	35	44	46	18
PG5040 0420000	42	57	59	21
PG5040 0540000	54	67	69	27



**PG5041**  
**45° Obtuse Bend**

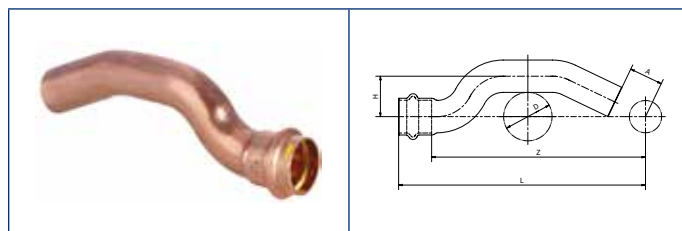
Code	Fitting size	L	Z
PG5041 0120000	12	24	6
PG5041 0140000	14	28	6
PG5041 0150000	15	30	8
PG5041 0160000	16	30	8
PG5041 0180000	18	31	9
PG5041 0220000	22	34	11
PG5041 0280000	28	38	14
PG5041 0350000	35	44	18
PG5041 0420000	42	57	21
PG5041 0540000	54	67	27

IMPORTANT: The Gas fittings have a factory applied lubricant. No other/extra lubricants such as oils or greases should be applied to the fittings O-rings.  
All above measurements are in mm unless stated differently.



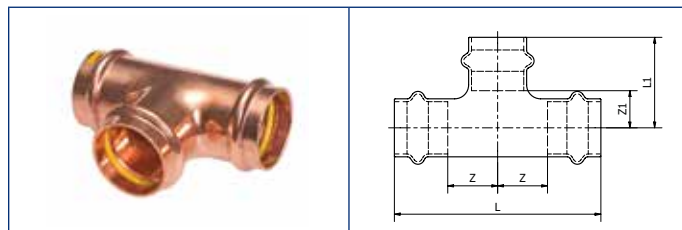
**PG5085\***  
**Crossover Coupler**

Code	Fitting size	L	Z	H
PG5085 01500000	15	134	90	28
PG5085 01800000	18	144	100	29
PG5085 02200000	22	162	116	54



**PG5086\***  
**45° Crossover Street Coupler**

Code	Fitting size	D	L	Z	H	A
PG5086 01500000	15	25	139	117	20	18
PG5086 02200000	22	33	168	145	27.5	23

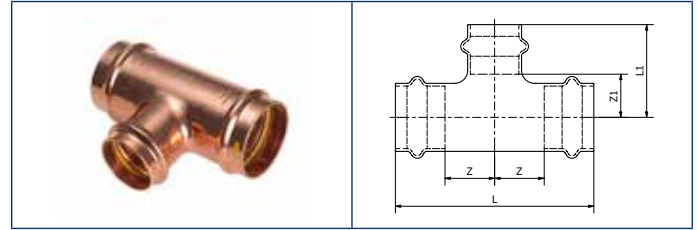


**PG5130**  
**Tee - Equal**

Code	Fitting size	L	L1	Z	Z1
PG5130 0121212	12 x 12 x 12	72	28	18	10
PG5130 0141414	14 x 14 x 14	78	33	17	11
PG5130 0151515	15 x 15 x 15	82	33	19	11
PG5130 0161616	16 x 16 x 16	80	34	18	12
PG5130 0181818	18 x 18 x 18	84	38	17	13
PG5130 0222222	22 x 22 x 22	90	37.5	20	13
PG5130 0282828	28 x 28 x 28	96	43	24	19
PG5130 0353535	35 x 35 x 35	98	48	26	22
PG5130 0424242	42 x 42 x 42	130	65	29	29
PG5130 0545454	54 x 54 x 54	150	75	35	35

IMPORTANT: The Gas fittings have a factory applied lubricant. No other/extra lubricants such as oils or greases should be applied to the fittings O-rings.

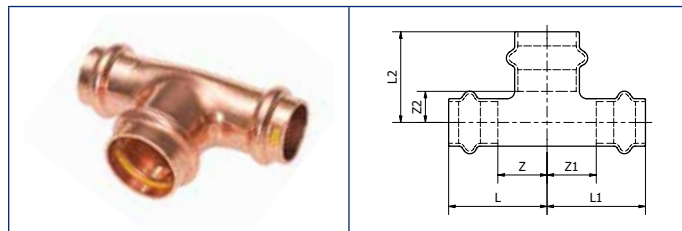
\*Use in accordance with the standards in the relevant country. All above measurements are in mm unless stated differently.



**PG5130**  
**Tee - Reduced Branch**

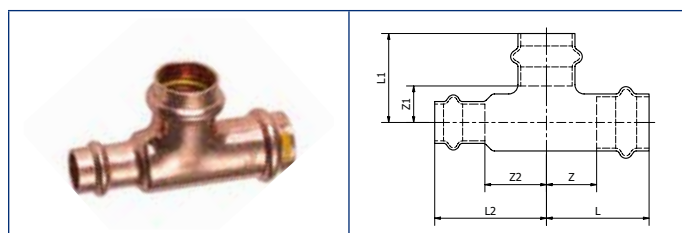
Code	Fitting size	L	L1	Z	Z1
PG5130 0141214	14 x 12 x 14	78	29	17	11
PG5130 0151215	15 x 12 x 15	77.5	31	16.5	11
PG5130 0161216	16 x 12 x 16	78	29	17	11
PG5130 0161416	16 x 14 x 16	78	35	17	13
PG5130 0181218	18 x 12 x 18	64	35.5	10	13
PG5130 0181418	18 x 14 x 18	84	36	20	13
PG5130 0181518	18 x 15 x 18	84	36	20	13
PG5130 0181618	18 x 16 x 18	85	36	20.5	13
PG5130 0221222	22 x 12 x 22	65	37.5	9.5	13
PG5130 0221422	22 x 14 x 22	80	37	17	13
PG5130 0221522	22 x 15 x 22	80	37	17	13
PG5130 0221622	22 x 16 x 22	80	38	17	13
PG5130 0221822	22 x 18 x 22	82	43	18	13
PG5130 0281528	28 x 15 x 28	81	41	16.5	19
PG5130 0281828	28 x 18 x 28	83	41	17.5	19
PG5130 0282228	28 x 22 x 28	91	43	20	19
PG5130 0352235	35 x 22 x 35	80	46	14	22
PG5130 0352835	35 x 28 x 35	88.5	46	18	22
PG5130 0422242	42 x 22 x 42	103	52	16.5	29
PG5130 0422842	42 x 28 x 42	111	59	20.5	29
PG5130 0423542	42 x 35 x 42	113.5	56	20.5	29
PG5130 0542854	54 x 28 x 54	109	58	14.5	35
PG5130 0543554	54 x 35 x 54	124	61	17.5	35
PG5130 0544254	54 x 42 x 54	129	76	24.5	35

IMPORTANT: The Gas fittings have a factory applied lubricant. No other/extra lubricants such as oils or greases should be applied to the fittings O-rings.  
 All above measurements are in mm unless stated differently.



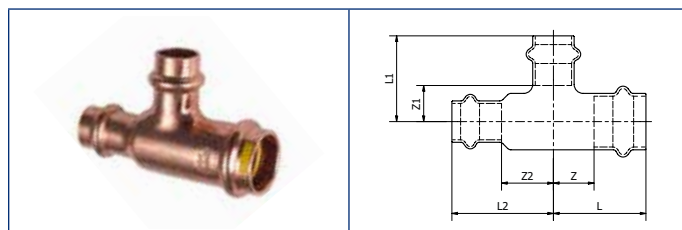
**PG5130RBE**  
**Tee - Reduced Both Ends**

Code	Fitting size	L	L1	L2	Z	Z1	Z2
PG5130 0121512	12 x 15 x 12	32	32	32	14	14	10
PG5130 0141614	14 x 16 x 14	38	38	33	38	38	11



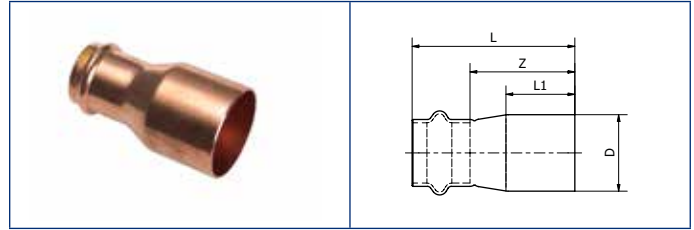
**PG5130RE**  
**Tee - Reduced End**

Code	Fitting size	L	L1	L2	Z	Z1	Z2
PG5130 0151512	15 x 15 x 12	33	33	33	11	11	15
PG5130 0161614	16 x 16 x 14	41.5	33.8	42.5	19.5	11.8	20.5
PG5130 0222215	22 x 22 x 15	43	37	46	20	13	24



**PG5130REB**  
**Tee - Reduced End & Branch**

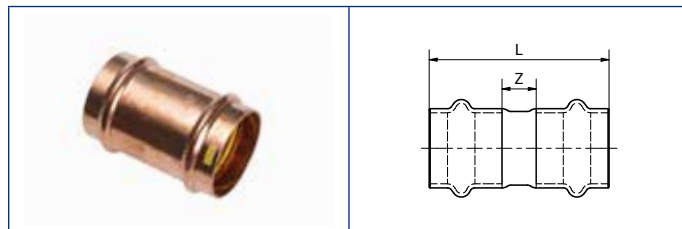
Code	Fitting size	L	L1	L2	Z	Z1	Z2
PG5130 0151212	15 x 12 x 12	32	31.5	34.5	10	11	16.5
PG5130 0161414	16 x 14 x 14	41.5	35.5	42.5	19.5	13.5	20.5
PG5130 0221515	22 x 15 x 15	40	35	43	17	13	21



**PG5243**  
**Fitting Reducer**

Code	Fitting size	D	L	L1	Z
PG5243 0141200	14 x 12	14	43.5	24	25.5
PG5243 0151200	15 x 12	15	50	24	32
PG5243 0161200	16 x 12	16	49	22	31
PG5243 0161400	16 x 14	16	48.5	24	26
PG5243 0181200	18 x 12	18	53	24	35
PG5243 0181400	18 x 14	18	53	24	27
PG5243 0181500	18 x 15	18	49	24	27
PG5243 0181600	18 x 16	18	49	24	27
PG5243 0221400	22 x 14	22	56	25	34
PG5243 0221500	22 x 15	22	56	25	34
PG5243 0221600	22 x 16	22	56	26	34
PG5243 0221800	22 x 18	22	55	26	33
PG5243 0281500	28 x 15	28	68	26	46
PG5243 0281800	28 x 18	28	66	26	44
PG5243 0282200	28 x 22	28	57	26	34
PG5243 0352200	35 x 22	35	71	28	48
PG5243 0352800	35 x 28	35	64	28	40
PG5243 0422200	42 x 22	42	89	38	66
PG5243 0422800	42 x 28	42	87	38	63
PG5243 0423500	42 x 35	42	83	38	57
PG5243 0543500	54 x 35	54	98	42	72
PG5243 0544200	54 x 42	54	99	42	63

IMPORTANT: The Gas fittings have a factory applied lubricant. No other/extra lubricants such as oils or greases should be applied to the fittings O-rings.  
 All above measurements are in mm unless stated differently.



## PG5270 Straight Coupler

Code	Fitting size	L	Z
PG5270 0120000	12	42	6
PG5270 0140000	14	50	6
PG5270 0150000	15	50	6
PG5270 0160000	16	50	6
PG5270 0180000	18	54	10
PG5270 0220000	22	56	10
PG5270 0280000	28	58	10
PG5270 0350000	35	62	10
PG5270 0420000	42	84	12
PG5270 0540000	54	92	12



## P5301 Stop End

Code	Fitting size	L	L1
PG5301 0120000	12	20.5	17.5
PG5301 0140000	14	25	21.5
PG5301 0150000	15	25	21.5
PG5301 0160000	16	25	21.5
PG5301 0180000	18	22	21.5
PG5301 0220000	22	23.5	22.5
PG5301 0280000	28	24	23.5
PG5301 0350000	35	29	25
PG5301 0420000	42	38.5	35
PG5301 0540000	54	40.5	39



## 9. Product Guarantee

When professionally installed, used and maintained in accordance with the installation and maintenance instructions detailed in the >B< Press technical manual available on the Conex Bänninger website [www.conexbanninger.com](http://www.conexbanninger.com).

Conex Universal Ltd. guarantees that >B< Press 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 below\* 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:
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  - 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 at Conex Universal Limited.  
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 Kingswinford, West Midlands, DY6 7FT,  
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