

>B< Press

Fitting System



110 Years of Innovation

For more than 110 years, Conex Bänninger has been the recognised leader in plumbing fittings, accessories and valves globally – offering a range of innovative and highly versatile jointing solutions.

Since opening its doors in Giessen, Germany in 1909, Conex Bänninger has produced over 20 billion copper fittings, establishing an unrivalled reputation for outstanding quality, first class customer service and market leading expertise.

>B< Press is a versatile press fitting system for use with hard, half hard or annealed copper tube. The unique press indicator ensures a secure, life long, leak-proof joint every time.

Fast Facts

- > OVER 20 BILLION FITTINGS SOLD WORLDWIDE SINCE 1909
- > CONEX BÄNNINGER >B< MARK INTRODUCED IN 1920
- > OVER 900 STAFF WORKING ACROSS THE GLOBE
- > CAPACITY TO PRODUCE 500 MILLION PIECES A YEAR

Contents

Key Features	4
Applications, Warranty, Approvals & Certifications	6
Fittings 15-50mm	12
>B< Press Valves	46
XL Fittings 65-100mm	56
Installation Requirements	74
The Tools	80
Frequently Asked Questions	91

Key **Features**

The >B < Press system moves beyond just being a quality fitting, it gives you the total press solution.

Designed for Australia





Tool Service Support

To ensure optimal performance, your Rothenberger press tools can be serviced through the Reece Tool Service Department.



Extensive Testing

>B< Press fittings undergo rigorous internal testing to ensure they meet Australian standards and piping tolerances.



Training and Certification

Reece supports you with training and certification as well as expert advice whenever you need it.





- >B< Press Water fittings are WaterMark approved and certified to AS3688.
- >B< Press Gas fittings are OceanaMark approved and certified to AS3688.

Flame Free

Takes away the risk of fire on site and eliminates the need for a hot works permit and heavy equipment.



Lower Installed Cost

A professional fitting which is quick and simple to install, saving time and money.



Higher Productivity

Installation can be completed during working hours or public access by a single employee.



Superior Performance

Corrosion resistant, with a design life of 50 years that can be relied on long after installation.



Permanent Connection

A secure, permanent joint ensures the fitting cannot be tampered with.



Fully Certified

Extensive third-party certification offers peace of mind to the client, specifier and installer.



Leak Indicator

The unique pressing indicator in the O-ring shows leaks at low pressures when fittings are not pressed.



>Applications,
Warranty,
Approvals &
Certifications<





Applications



>B< Press Water fittings are suitable for:

- Drinking water
- Heating water (non solar)
- Chilled water



>B< Press Gas fittings are suitable for:

- Natural gas and LPG
- Compressed air (with or without oil content)
- Fuel lines



>B< Press High Temperature fittings are suitable for:

· Solar hot water



Warranty

A 25 year warranty covers against faults caused by defective manufacture of the fittings. It does not cover faults arising from incorrect installation.

The warranty covers installation with type A and B copper tube conforming to AS1432 but does not cover any faults arising from competitor fittings used on the same installation nor faults caused by damaged >B < Press fittings (through excessive pressure, for example) where competitor fittings created non-compliant conditions.

All >B< Press fittings must be installed by a licensed plumber.

Approvals & Certifications

IAPMO R&T OCEANA









VPMOR DRT Oceans is a product certification body which inspects and amenges for the independent illustratory leading of amenges taken from the manufacturis's stock or from the manufact or accommission of bot to verify compliance of the inspectations of the manufacturis or the manufacturis can dependent soft and application Standard and all activity is coupled the products are products are storing or the manufacturis's can depend and product sometimes of the manufacturis's can depend and product products are storing and products are storing and the storing and the storing and the storing are storing as a storing are stor

CERTIFICATE OF CONFORMITY

IAPMO R&T Oceana hereby grants to:

Conex Universal Limited

Global House, 95 Vantage Point,The Pensnett Estate,Kingswinford,West Midlands,DY6 7FT,United Kingdom

the right to sur the BiterMark in accordance with the AECE Mensed for the BiterMark Conflication Science; -tearnalise Standards; RieserMark Technical Specifications; and the Planebing Code of Australia; only in respect of the compiled product as described in the BiterMark Conflication (Science) - Schools of Conflicat Produce Engine to LEPMO Product Engine Deceases). The Conflicate is granted analyses to the radio species to the radio species of the Conflication Science and the Plane and Simulation Science Plane.

Evaluated to:

AS 3688:2016

Water supply and gas systems-Metallic fittings and end-connectors

Manufacturer:

Refer to Licence Holder

Licence No.: WM-022197
Certification Date: 17 November 2021

First Certified: Expiry Date:

17 November 2011 16 November 2026

Warre Viola CO. The WHO Group

This WaterMark certification is for the period indicated herein and is veid after the date shows above. Any change in material, manufacturing process, marking or design without having first obtained the approval of IAPMO EAT Octors, or any evidence of new-compliance with applicable Standards, Specifications or or distress workstanding process by demond unflicted cases for revocation of the confidence for sufference to this confidence for a sufference to this confidence for a sufference to this confidence for sufference to this confidence for a sufference to this confidence for the sufference for the confidence for sufference for the confidence for the sufference for the sufference for the confidence for the sufference for the confidence for the sufference for the sufference for the confidence for the sufference for the sufference for the confidence for the sufference for the

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Conex Bänninger is an ISO 9000 quality assured company. In addition to WaterMark approvals in Australia, Conex Bänninger has approvals from numerous national and international bodies including DVGW, KIWA, GASTEC, WRAS and AENOR, plus many well-known others.



























kiwa

IAPMO R&T OCEANA

7-11 Fullard Road, Narre Warren, Victoria 3805, Australia







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Evaluated to:

AS 3688:2016

Water supply and gas systems-Metallic fittings and end-connectors

Manufacturer:

Refer to Licence Holder

Licence No.: OMK22197

Certification Date: 17 November 2021

First Certified: 15 June 2017

Expiry Date: 16 November 2026

GO THE WHO Group

This OceansMark cartification is for the period indicated herein and is void after the date shown above. Any change is material, manufacturing process, marking or design without having first obtained the approval of LAPMO R&T Oceans, or any oridence of non-compliance with applicable Standards, Specifications or of inferior workmanship, may be deemed sufficient cause for revocation of this certification. Reproduction of or reference to this certificate for

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the right to sur the WaterMark in accordance with the ABCH Mensual for the WaterMark Comficiation Schoner. Assembler Standards; WaterMark Exchanical Specifications; and the Phombing Code of Assemble; to comfine a described in the WaterMark Comfician of Configure "Scholade of Configure Product right with a UPAND Product Listing Discoursy". The Comfician is greated adopted to the Indian agreeming the WaterMark Comfician of the Demand Configure of the Demander of Listing Discoursy". The Comficiant Scholade of the Toron and Configure of the Demander of Listing Discoursy. The Comficiant Scholade of the Toron and Configure of the Demander of Listing Discoursy. The Comficiant Scholade of the Toron and Configure of the Demander of Listing Discoursy.

Evaluated to:

AS 5830.1-2012

In-line ball valves for use in plumbing water supply systems - Metal-bodied

Manufacturer:

Refer to Licence Holder

WM-022503 Licence No.: Certification Date: 1 December 2021 First Certified: 1 December 2016 Expiry Date:

30 November 2026

This certificate is issued by a JAS-AVZ accordined Confirmity Assessment Boly. The ADCI and JAS-AVZ do not in any vay warrant, guarantee or represent that the product the subject of this Confirmat conforms to the WaterMark do not in any vay warrant, guarantee or represent that the product the subject of this Confirmat conforms to the WaterMark do not in any vay warrant, guarantee or represent that the product the subject of this Confirmat or the subject or the subjec

>Fittings 15-50mm<





Product Features

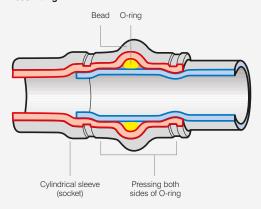
O-Ring

>B< Press fittings for water applications are identified with a black O-ring. For natural gas and LPG applications, fittings are identified by a yellow coloured O-ring and a yellow mark on the fitting body. For high temperature applications, fittings are identified with a red coloured O-ring and a red mark on the fitting.

*Important note: The O-ring colour and identification must meet the application. O-ring in the fittings are not to be removed or changed.



Section through >B< Press fitting



Pressing Indicator (PI) Feature

The unique pressing indicator is a specially designed O-ring. It has a reduced section in two positions that allows water or air past the sealing element of any unpressed connection, thereby providing a visible leakage point during the commissioning of the system.

Unpressed fittings are identified by pressurising the system with a pressure range of 100kPa to 500kPa for water (prior to the final pressure testing) and 2.2kPa to 300kPa for gas.

When the fitting is pressed, the O-ring material compresses, filling the gaps, creating a leak free joint.

Testing and Commissioning Installations

All fitting connections in a system should remain visible and accessible until leak and pressure tested.

WATER SYSTEMS

To ensure that all press joints have been successfully completed, a low pressure test is applied as follows:

- After flushing, fill the system with water and check for visible leaks.
- No leak. Apply a test pressure of between 100 and no more than 500kPa.
- No leak. Final testing should be conducted in accordance with AS/NZS 3500.



Technical Data

>B< Press and >B< Press XL are suitable for use with hard, half hard or annealed type A and B copper tube complying with AS1432.

Water Supply Systems

Application / Medium	Comments
Hot and cold potable water	Australian WaterMark approved. WaterMark certification for all plumbing products is restricted to 1400kPa at 95°C.
Fire services	Capable of the required test pressure of 1700kPa or 1.5 times the design pressure as specified by AS2419.1
Rainwater	
Pump circulated hot water systems	Compliant with EN12828
Chilled water and cooling systems	Water and water-glycol mixtures, mixing ratio max. 50/50
Steam	Low pressure steam equipment
Solar collectors	
Industrial and process water	Treated, softened, partially de-ionised water with a pH of $6.5 \le 9.5$

Anti-Freeze / Corrosion Protection / Inhibitors

A continued on A Barathana	Comments	
Application / Medium	Product	Manufacturer
	Antifrogen N	Clariant
	Antifrogen L	Clariant
	Antifrogen Sol (solar systems)	Clariant
	Ethylene Glycol (Ethan-1,2-diol)	Various
	Propylene Glycol (1,2-Propandiol)	Various
	Tyfoxit	Tyforop-Chemie
Anti-freeze cooling	Tyfocop	Tyforop-Chemie
concentration 50%	Antifrogen N	Clariant
	Antifrogen L	Clariant
	Antifrogen Sol (solar systems)	Clariant
	Ethylene Glycol (Ethan-1,2-diol)	Various
	Propylene Glycol (1,2-Propandiol)	Various
	Tyfoxit	Tyforop-Chemie
	Tyfocop	Tyforop-Chemie

[✓] Indicates compatibility. (Consultation required for unlisted mediums)

^{*}Note: Installations need to comply to the relevant standards and local regulations. The maximum constant or standard operating pressure and temperature are shown. For testing or short spikes, higher pressure and temperature may be applicable.

^{**}Note: >B< Press Water and Gas valves have alternative applications data and pressure and temperature ratings. Please refer to pages 48-51 for more information.

P (kPa)	T (°C)	>B< Press Water	>B< Press Gas	>B< Press HT
1600	110	V	x	V
1600	110	V	X	V
1600	Ambient	V	Х	V
1600	110	~	X	~
600	-10	V	X	
≤100	120	V	Х	V
1600	160	×	X	✓
1600	110	V	X	V

P (kPa)	T (°C)	>B< Press Water	>B< Press Gas	>B< Press HT
		~	×	Х
		✓	X	X
		✓	X	X
1600	-25 to 110	✓	X	X
		✓	X	X
		✓	X	X
		✓	X	X
		X	X	~
		X	X	~
		X	X	~
1600	-15 to 160	X	X	~
		X	X	~
		X	X	~
		X	X	✓

Technical Data

Oils, Cooling Materials and Lubricants

Application / Medium	Comments
Engine oils and lubricants (Petroleum-based)	Consultation required
Engine oils (Synthetic based)	
Bio Diesel	
Heating oil, Diesel in acc. with EN590	

Gas

Application / Medium	Comments
Natural Gas Liquid Gas Propane Butane Methane	The scope of AS5601 for all gas systems is restricted to 200kPa.
Argon	For welding
Forming Gas, Dry / Welding Inert Gas	Ar+CO ² (e.g. Cargon)
Vacuum	
Carbon Dioxide (dry gas)	
Carbon Dioxide (wet gas)	
Nitrogen (gas)	
Helium	May leak at <0.001cm³/min
Neon	
Xenon	
Synthetic air	
Krypton	
Oxygen	
Acetylene	
Hydrogen	May leak at <0.001cm³/min
Carbon Monoxide	XL not compatible
Compressed air	Oil concentration <25mg/m³
Compressed all	Oil concentration >25mg/m³

Special Media

Application / Medium	Comments
Acetone (liquid)	
Condensate	From gas condenser boiler or steam
Ethanol	
Urea	
Methanol	
Sodium Hydroxide	
Ammonia	

P (kPa)	T (°C)	>B< Press Water	>B< Press Gas	>B< Press HT
1000	70	×	~	X
		×	X	~
		Not compatible		
500	-20 to 40	X	~	~

P (kPa)	T (°C)	>B< Press Water	>B< Press Gas	>B< Press HT
1000	-20 to 70	×	V	X
1600	70	~	V	~
1600	70	~	~	~
-80	Ambient	~	~	~
1600	Ambient	~	~	~
		Not compatible		
1600	70	~	~	~
1600	70	~	~	~
1600	70	~	~	~
1600	70	~	~	~
1600	70	~	~	~
1600	70	~	~	~
1000	Ambient	~	~	~
		Not compatible		
500	70	~	V	~
1600	70	~	~	~
1600	70	~	~	~
1600	70	X	V	~

P (kPa)	T (°C)	>B< Press Water	>B< Press Gas	>B< Press HT
500	-10 to 40	~	X	X
1600	110	~	X	~
1600	25	~	X	~
		Not compatible		

Installation Instructions

To install >B< Press, a Rothenberger Romax mechanical tool with compatible sized jaw to fit each size fitting is required. When pressure is exerted through the press tool, a permanent joint is made and the fitting cannot be disassembled or re-used.



Step 1 - Cut the pipe

- It is important to ensure that the pipe is cut completely square.
- Tube ends should be clean and free from scratches not less than the socket length.



Step 2 - Remove burrs

- Make sure that the internal and external tube end is free from burrs or sharp edges by using a deburring tool in one direction clockwise to prevent damage to the O-ring.
- Then wipe the tube end clean to avoid damaging the O-ring on tube insertion.



Step 3 – Ensure the O-ring is seated and lubricated

- Before inserting the copper tube, ensure that the O-ring is seated correctly, free from damage and lubricated.
- If O-ring is dry, a small amount of water can be used to provide lubrication.



Step 4 - Mark insertion depth

- The tube must be fully inserted into the fitting until it reaches the tube stop.
- Mark insertion depth to ensure that any tube movement is detected, which is especially important if the joints are to be pressed at a later time.

Note: As repair couplings do not have a tube stop, both ends of the tube must meet in the middle of the fitting.



Alternatively, use depth gauge

- Insert tube into correct socket in depth gauge.
- Check window to see the tube is fully inserted.
- Mark the insertion depth on the tube.



Step 5 – Ensure pipe is inserted up to the tube stop

 To assemble the joint, the tube must be inserted into the fitting up to the tube stop. The pressing operation should only be undertaken when the tube reaches the tube stop. Rotate the tube slightly to ease the tube over the O-ring.



Step 6 – Complete the joint with the compression tool

- Ensure that the correct size jaw for the fitting is inserted into the tool. The jaws must be placed square on the fitting.
- Press and hold the trigger/button to begin the compression cycle of the tool. The tool automatically stops when the cycle has been completed.
- Release the button and then remove the jaws from around the fitting. (For further information, refer to complete Romax instructions.)

Note: Do not crimp any >B< Press fitting more than once. You must use an approved tool to maintain your warranty.

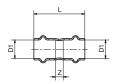
IMPORTANT

IT IS IMPORTANT TO KEEP THE FITTING FREE OF ANY DUST OR DIRT AND TO ENSURE THE O-RING STAYS LUBRICATED AND PROTECTED FROM DAMAGE. SELECT THE CORRECT SIZE OF TUBE AND FITTING FOR THE JOB. ENSURE THAT BOTH ARE CLEAN AND FREE FROM DAMAGE AND IMPERFECTIONS.



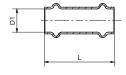
STRAIGHT	CONNECTOR	₹	
Product Code	Size (D1)	L	Z
404600	15mm	39	3
404860	18mm	49	3
404601	20mm	47	3
404602	25mm	49	3
404603	32mm	53	3
404604	40mm	64	2
404605	50mm	80	2





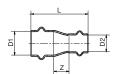
REPAIR COUPLER						
Product Code	Size (D1)	L				
404661	15mm	39				
405098	18mm	49				
404662	20mm	47				
404663	25mm	49				
404664	32mm	53				
404665	40mm	64				
404666	50mm	80				





REDUCING	COUPLING		
Product Code	Size (D1 x D2)	L	Z
404863	18 x 15mm	43	2
404631	20 x 15mm	47	7
404864	20 x 18mm	48	4
404632	25 x 15mm	54	13
404633	25 x 20mm	52	7
405169	32 x 20mm	59	13.5
404634	32 x 25mm	55	7
404635	40 x 25mm	67	13
404636	40 x 32mm	62	6
404637	50 x 25mm	86	24
404638	50 x 32mm	83	19
404639	50 x 40mm	83	13

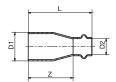




FITTING REDUCER					
Product Code	Size (D1 x D2)	L	Z		
404652	20 x 15mm	50	32		
404653	25 x 15mm	55	37		
404654	25 x 20mm	54	32		
404655	32 x 20mm	62	40		
404656	32 x 25mm	57	34		
404657	40 x 25mm	68	45		
404658	40 x 32mm	65	40		
404659	50 x 32mm	84	59		
404660	50 x 40mm	86	55		

*Note: Reduces >B< Press Fitting, not to be soldered.

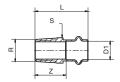






MALE COUR	PLING			
Product Code	Size (D1 x R)	L	Z	s
404640	15mm x 1/2" BSP	43	25	22
404641	15mm x 3/4" BSP	47	29	27
404865	18mm x 1/2" BSP	46	23	24
404642	20mm x 1/2" BSP	48	26	27
404643	20mm x 3/4" BSP	48	26	27
404644	25mm x 3/4" BSP	50	27	27
404645	25mm x 1" BSP	54	31	34
404646	32mm x 1 1/4" BSP	59	34	43
404647	40mm x 1 1/2" BSP	67	36	50
404648	50mm x 2" BSP	80	41	62





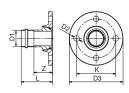
FEMALE CO	UPLING			
Product Code	Size (D1 x Rp)	L	Z	S
404667	15mm x 1/2" BSP	41	8	26
404866	18mm x 1/2" BSP	44	6	26
404668	20mm x 3/4" BSP	45	7	31
404669	25mm x 1" BSP	50	8	39
404670	32mm x 1 1/4" BSP	56	10	48
404671	40mm x 1 1/2" BSP	63	11	55
404672	50mm x 2" BSP	76	11	70





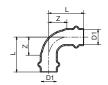
FLANGE ADAPTOR (TABLE E)									
Product Code	Size (D1)	L	Z	K	D2	D3			
404689	40mm	79	48	98	14	135			
404690	50mm	85	46	114	18	150			





ELBOW - 90 DEGREE					
Product Code	Size (D1)	L	Z		
404606	15mm	32	14		
404861	18mm	38	15		
404607	20mm	43	21		
404608	25mm	53	30		
404609	32mm	60	35		
404610	40mm	76	45		
404611	50mm	100	61		





ELBOW M&	F - 90 DEGREE	E		
Product Code	Size (D1)	L1	Z	L2
404851	15mm	32	14	34
404852	20mm	43	21	46
404853	25mm	53	30	55
404854	32mm	60	35	62
404855	40mm	76	45	78
404856	50mm	100	61	102

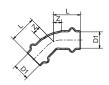






ELBOW - 45 DEGREE						
Product Code	Size (D1)	L	Z			
405118	15mm	24	6			
405119	20mm	31	10			
404673	25mm	35	12			
404674	32mm	39	14			
404675	40mm	50	19			
404676	50mm	64	25			





ELBOW M&F - 45 DEGREE							
Product Code	Size (D1)	L1	Z	L2			
404844	25mm	35	12	37			
404845	32mm	39	14	41			
404846	40mm	50	19	52			
404847	50mm	64	25	66			





THREADED ELBOW - MALE 90 DEGREE							
Product Code	Size (D1 x R)	L1	Z	L2	S		
405138	15mm x 1/2" BSP	32	14	42	22		
405139	20mm x 3/4" BSP	43	21	51	27		
405155	15mm x 3/4" BSP	32.5	14.5	46	27		





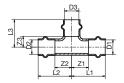
THREADED ELBOW - FEMALE 90 DEGREE									
Product Code	Size (D1 x Rp)	L1	Z	L2	L3	S			
405140	15mm x 1/2" BSP	32	14	25	15	22			
405141	20mm x 3/4" BSP	43	21	33	16	27			





Size (D1 x D2 x D3)	L1	L2	L3	Z 1	Z 2	Z 3
15mm	33	33	28	15	15	10
18mm	40	40	34	17	17	11
20mm	42	42	36	20	20	14
25mm	47	47	40	24	24	17
32mm	49	49	46	24	24	21
40mm	58	58	58	27	27	27
50mm	73	73	73	34	34	34
	15mm 18mm 20mm 25mm 32mm 40mm	15mm 33 18mm 40 20mm 42 25mm 47 32mm 49 40mm 58	15mm 33 33 18mm 40 40 20mm 42 42 25mm 47 47 32mm 49 49 40mm 58 58	15mm 33 33 28 18mm 40 40 34 20mm 42 42 36 25mm 47 47 40 32mm 49 49 46 40mm 58 58 58	15mm 33 33 28 15 18mm 40 40 34 17 20mm 42 42 36 20 25mm 47 47 40 24 32mm 49 49 46 24 40mm 58 58 58 27	15mm 33 33 28 15 15 18mm 40 40 34 17 17 20mm 42 42 36 20 20 25mm 47 47 40 24 24 32mm 49 49 46 24 24 40mm 58 58 58 27 27

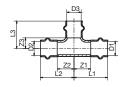






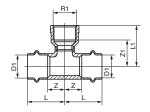
REDUCING	TEE						
Product Code	Size (D1 x D2 x D3)	L1	L2	L3	Z 1	Z 2	Z 3
404618	20 x 20 x 15mm	39	39	31.5	17	17	14
404629	20 x 15 x 20mm	42	40	36	20	22	14
404630	20 x 15 x 15mm	39	40	32	17	22	14
404619	25 x 25 x 15mm	38	38	35	15	15	17
404620	25 x 25 x 20mm	42	42	39	19	19	17
404621	32 x 32 x 15mm	39	39	39	14	14	21
404622	32 x 32 x 20mm	43	43	44	18	18	22
404623	32 x 32 x 25mm	46	46	44	21	21	21
404624	40 x 40 x 20mm	49	49	47	18	18	25
404625	40 x 40 x 25mm	50	50	48	19	19	25
404626	40 x 40 x 32mm	53	53	52	22	22	27
404627	50 x 50 x 25mm	59	59	56	20	20	33
404628	50 x 50 x 40mm	66	66	64	27	27	33





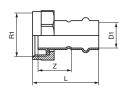
APTOR TEE				
Size (D1 x D1 x R1)	L	Z	Lt	Z 1
15 x 15mm x 1/4"	33	15.5	29.7	18.7
15 x 15mm x 3/8"	33	15.5	31	19.7
15 x 15mm x 1/2"	33	15.5	36.5	21.5
20 x 20mm x 1/4"	39	17.5	33.7	22.7
25 x 25mm x 1/4"	38	16	36.7	25.7
32 x 32mm x 1/4"	39	14	40.7	29.7
	Size (D1 x D1 x R1) 15 x 15mm x 1/4" 15 x 15mm x 3/8" 15 x 15mm x 1/2" 20 x 20mm x 1/4" 25 x 25mm x 1/4"	Size (D1 x D1 x R1) L 15 x 15mm x 1/4" 33 15 x 15mm x 3/8" 33 15 x 15mm x 1/2" 33 20 x 20mm x 1/4" 39 25 x 25mm x 1/4" 38	Size (D1 x D1 x R1) L Z 15 x 15mm x 1/4" 33 15.5 15 x 15mm x 3/8" 33 15.5 15 x 15mm x 1/2" 33 15.5 20 x 20mm x 1/4" 39 17.5 25 x 25mm x 1/4" 38 16	Size (D1 x D1 x R1) L Z L1 15 x 15mm x 1/4" 33 15.5 29.7 15 x 15mm x 3/8" 33 15.5 31 15 x 15mm x 1/2" 33 15.5 36.5 20 x 20mm x 1/4" 39 17.5 33.7 25 x 25mm x 1/4" 38 16 36.7





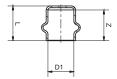
PTOR		
Size (D1 x R1)	L	Z
15mm x 3/4"	45	22.6
20mm x 1"	52	26
25mm x 1 1/2"	55	27
32mm x 1 1/2"	61	31
15mm x 1/2"	41	19.6
20mm x 3/4"	56.5	30.5
25mm x 1"	60.5	33.5
32mm x 1 1/4"	66.5	37
40mm x 1 1/2"	80.7	44.5
	Size (D1 x R1) 15mm x 3/4" 20mm x 1" 25mm x 1 1/2" 32mm x 1 1/2" 15mm x 1/2" 20mm x 3/4" 25mm x 1 1/4"	Size (D1 x R1) L 15mm x 3/4* 45 20mm x 1* 52 25mm x 1 1/2* 55 32mm x 1 1/2* 61 15mm x 1/2* 41 20mm x 3/4* 56.5 25mm x 1* 60.5 32mm x 1 1/4* 66.5





Size (D1)	L	Z
15mm	20	18
18mm	22	20
20mm	24	22
25mm	25	23
32mm	27	25
40mm	33	31
50mm	41	39
	15mm 18mm 20mm 25mm 32mm 40mm	15mm 20 18mm 22 20mm 24 25mm 25 32mm 27 40mm 33

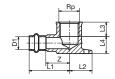






WALL PLAT	E ELBOW - FEMA	LE				
Product Code	Size (D1 x Rp)	L1	Z	L2	L3	L4
404650	15mm x 1/2" BSP	42	24	24	15	18
404651	20mm x 3/4" BSP	47	25	27	16	24





WALL PLAT	E ELBOW - MALE					
Product Code	Size (D1 x Rp)	L1	Z	L2	L3	L4
404649	15mm x 1/2" BSP	22	24	30	52	42





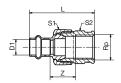
WALL PLAT	E ELBOW - MALE	LONG	THRE	ADED		
Product Code	Size (D1 x Rp)	L1	Z	L2	L3	L4
405176	15mm x 1/2" BSP	22	25	30	150	42
405177	20mm x 3/4" BSP	22	26	40	150	47





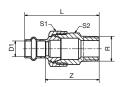
Product Code Size (D1 x Rp) L Z S1 S2 404683 15mm x 1/2° BSP 55 22 30 28 404684 20mm x 3/4" BSP 68 30 37 34
404684 20mm x 3/4" BSP 68 30 37 34
404685 25mm x 1" BSP 64 22 46 42
404686 32mm x 1 1/4" BSP 83 38 53 50
404687 40mm x 1 1/2" BSP 94 42 65 57
404688 50mm x 2" BSP 106 42 83 72





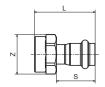
MALE UNIO	N				
Product Code	Size (D1 x R)	L	Z	S1	S2
404677	15mm x 1/2" BSP	63	46	29	27
404678	20mm x 3/4" BSP	77	55	37	34
404679	25mm x 1" BSP	84	61	46	43
404680	32mm x 1 1/4" BSP	93	68	53	50
404681	40mm x 1 1/2" BSP	106	75	65.5	64
404682	50mm x 2" BSP	124	85	83	80





TAP CONNECTOR - STRAIGHT					
Product Code	Size	L	Z	S	
405134	15mm x 1/2" BSP	42	27	27	
405135	20mm x 3/4" BSP	52	33	36	







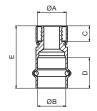
TAP CONNECTOR - BENT					
Product Code	Size	L	Z	S	
405136	15mm x 1/2" BSP	45	35	24	
405137	20mm x 3/4" BSP	55	46	31	





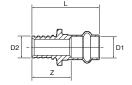
AUSPEX AD	APTOR				
Product Code	Size (ØA x ØB)	С	D	E	
1544580	16 x 15mm	11	17.5	37.5	
1544581	20 x 20mm	11	21.5	44	
1544582	25 x 25mm	12	22.5	49	





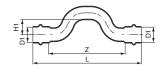
REHAU ADA	APTOR		
Product Code	Size (D1 x D2)	L	Z
405111	15 x 16mm	42	24
405112	20 x 20mm	54	32
405117	25 x 25mm	64	41





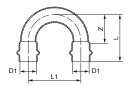
CROSS OVE	ER BEND			
Product Code	Size (D1)	L	Z	H1
405186	15mm	127	94	22
405187	20mm	143	101	20
405188	25mm	164	116	22





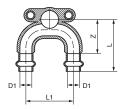
RETURN BE	ND			
Product Code	Size (D1)	L	Z	L1
405194	15mm	37	20	36
405195	20mm	56	34	63
405196	25mm	60	38	68





LOOPED WALL PLATE ELBOW - FEMALE					
Product Code	Size (D1)	L	Z	Lt	
405192	15mm	54	36.5	50	
405193	20mm	56	34.5	50	



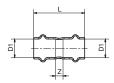


>B< Press Gas



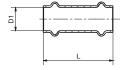
STRAIGHT	CONNECTO	R	
Product Code	Size (D1)	L	Z
404697	15mm	39	3
404698	20mm	47	3
404699	25mm	49	3
404700	32mm	53	3
404701	40mm	64	2
404702	50mm	80	2





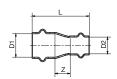
REPAIR CO	UPLER	
Product Code	Size (D1)	L
404757	15mm	39
404758	20mm	47
404759	25mm	49
404760	32mm	53
404761	40mm	64
404762	50mm	80





REDUCING	COUPLING		
Product Code	Size (D1 x D2)	L	Z
404728	20 x 15mm	47	7
404729	25 x 15mm	54	13
404730	25 x 20mm	52	7
404731	32 x 25mm	55	7
404732	40 x 25mm	67	13
404733	40 x 32mm	62	6
404734	50 x 25mm	86	24
404735	50 x 32mm	83	19
404736	50 x 40mm	83	13

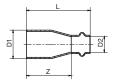




FITTING RE	DUCER		
Product Code	Size (D1 x D2)	L	Z
404748	20 x 15mm	50	32
404749	25 x 15mm	55	37
404750	25 x 20mm	54	32
404751	32 x 20mm	62	40
404752	32 x 25mm	57	34
404753	40 x 25mm	68	45
404754	40 x 32mm	65	40
404755	50 x 32mm	84	59
404756	50 x 40mm	86	55

*Note: Reduces >B< Press Fitting, not to be soldered.



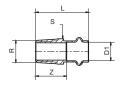


>B< Press Gas



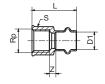
MALE COUP	PLING			
Product Code	Size (D1 x R)	L	Z	S
404737	15mm x 1/2" BSP	43	25	22
404738	15mm x 3/4" BSP	47	29	27
404739	20mm x 1/2" BSP	48	26	27
404740	20mm x 3/4" BSP	48	26	27
404741	25mm x 3/4" BSP	50	27	27
404742	25mm x 1" BSP	54	31	34
404743	32mm x 1 1/4" BSP	59	34	43
404744	40mm x 1 1/2" BSP	67	36	50
404745	50mm x 2" BSP	80	41	62





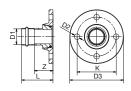
FEMALE CO	UPLING			
Product Code	Size (D1 x Rp)	L	Z	S
404763	15mm x 1/2" BSP	41	8	26
404764	20mm x 3/4" BSP	45	7	31
404765	25mm x 1" BSP	50	8	39
404766	32mm x 1 1/4" BSP	56	10	48
404767	40mm x 1 1/2" BSP	63	10	55
404768	50mm x 2" BSP	76	11	70





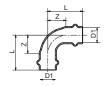
FLANGE ADAPTOR (TABLE E)							
Product Code	Size (D1)	L	Z	K	D2	D3	
404785	40mm	79	48	98	14	135	
404786	50mm	85	46	114	18	150	





ELBOW - 90	DEGREE		
Product Code	Size (D1)	L	Z
404703	15mm	32	14
404704	20mm	43	21
404705	25mm	53	30
404706	32mm	60	35
404707	40mm	76	45
404708	50mm	100	61





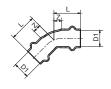
ELBOW M&	F - 90 DEGRE	E		
Product Code	Size (D1)	L1	Z	L2
404917	15mm	32	14	34
404918	20mm	43	21	46
404919	25mm	53	30	55
404920	32mm	60	35	62
404921	40mm	76	45	78
404922	50mm	100	61	102





ELBOW - 45	DEGREE		
Product Code	Size (D1)	L	Z
405172	15mm	23.5	6
405173	20mm	31	9.5
404769	25mm	35	12
404770	32mm	39	14
404771	40mm	50	19
404772	50mm	64	25







ELBOW M&	F - 45 DEGREE			
Product Code	Size (D1)	L1	Z	L2
404910	25mm	35	12	37
404911	32mm	39	14	41
404912	40mm	50	19	52
404913	50mm	64	25	66





ELBOW - MA	ALE 90 DEGREE					
Product Code	Size (D1 x R)	L1	Z	L2	S	
405146	15mm x 1/2" BSP	32	14	42	22	
405147	20mm x 3/4" BSP	43	21	51	27	





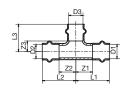
ELBOW - FEMALE 90 DEGREE						
Product Code	Size (D1 x Rp)	L1	Z	L2	L3	S
405148	15mm x 1/2" BSP	32	14	25	15	22
405149	20mm x 3/4" BSP	43	21	33	16	27





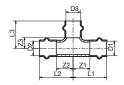
TEE							
Product Code	Size (D1 x D2 x D3)	L1	L2	L3	Z 1	Z2	Z 3
404709	15mm	33	33	28	15	15	10
404710	20mm	42	42	36	20	20	14
404711	25mm	47	47	40	24	24	17
404712	32mm	49	49	46	24	24	21
404713	40mm	58	58	58	27	27	27
404714	50mm	73	73	73	34	34	34





REDUCING	TEE						
Product Code	Size (D1 x D2 x D3)	L1	L2	L3	Z 1	Z 2	Z 3
404715	20 x 20 x 15mm	39	39	31.5	17	17	14
404726	20 x 15 x 20mm	42	40	36	20	22	14
404727	20 x 15 x 15mm	39	40	32	17	22	14
404716	25 x 25 x 15mm	38	38	35	15	15	17
404717	25 x 25 x 20mm	42	42	39	19	19	17
404718	32 x 32 x 15mm	39	39	39	14	14	21
404719	32 x 32 x 20mm	43	43	44	18	18	22
404720	32 x 32 x 25mm	46	46	44	21	21	21
404721	40 x 40 x 20mm	49	49	47	18	18	25
404722	40 x 40 x 25mm	50	50	48	19	19	25
404723	40 x 40 x 32mm	53	53	52	22	22	27
404724	50 x 50 x 25mm	59	59	56	20	20	33
404725	50 x 50 x 40mm	66	66	64	27	27	33

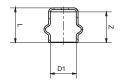






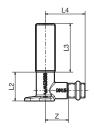
END CAP			
Product Code	Size (D1)	L	Z
404787	15mm	20	18
404788	20mm	24	22
404789	25mm	25	23
404790	32mm	27	25
404791	40mm	33	31
404792	50mm	41	39





WALL PLAT	E ELBOW - MALE				
Product Code	Size	Z	L2	L3	L4
405102	15mm x 1/2" BSP	24	30	52	42



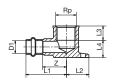


*Note: As per AS/NZS 5601.1 Gas Installations

A brass external parallel thread to a brass internal parallel thread may be used, provided that the joint is welded or a suitable permanent quick-setting thread compound is used and a means of disconnection is provided immediately downstream. Wherever possible, the fitting should be secured against disturbance.

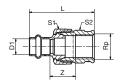
WALL PLAT	VALL PLATE ELBOW - FEMALE						
Product Code	Size (D1 x Rp)	L1	Z	L2	L3	L4	
404746	15mm x 1/2" BSP	42	24	24	15	18	
404747	20mm x 3/4" BSP	47	25	27	16	24	





FEMALE UNION							
Product Code	Size (D1 x Rp)	L	Z	S1	S2		
404779	15mm x 1/2" BSP	55	22	30	28		
404780	20mm x 3/4" BSP	68	30	37	34		
404781	25mm x 1" BSP	65	23	46	42		
404782	32mm x 1 1/4" BSP	83	38	53	50		
404783	40mm x 1 1/2" BSP	94	42	65	57		
404784	50mm x 2" BSP	106	42	83	72		

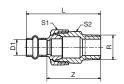






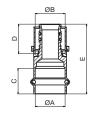
MALE UNION						
Product Code	Size (D1 x R)	L	Z	S1	S2	
404773	15mm x 1/2" BSP	63	46	29	27	
404774	20mm x 3/4" BSP	77	55	37	34	
404775	25mm x 1" BSP	84	61	46	43	
404776	32mm x 1 1/4" BSP	93	68	53	50	
404777	40mm x 1 1/2" BSP	106	75	65.5	64	
404778	50mm x 2" BSP	124	85	83	80	





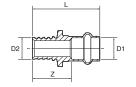
DUOPEX ADAPTOR						
Product Code	Size (ØA x ØB)	С	D	E		
1435237	15 x 16mm	17.5	26	52.5		
1435277	15 x 20mm	17.5	26	55.5		
1435238	20 x 20mm	21.5	26	58		
1435239	25 x 26mm	21.5	26	59.5		
1435244	20 x 26mm	22.5	26	61.5		
1435245	25 x 32mm	22.5	26	60.5		
1435246	32 x 40mm	24.5	26	66		
1435247	40 x 50mm	30.5	35	82.5		





REHAU ADAPTOR			
Product Code	Size (D1 x D2)	L	Z
405113	15 x 16mm	42	24
405114	20 x 20mm	54	32
405116	25 x 25mm	64	41





>B< PRESS DEPTH GAUGE

Product Code

406067



INSTALLATION TAG Product Code Size 2130197 90 x 55mm



Product Code Size 406047 100ml

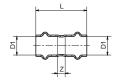


>B< Press High Temperature



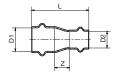
STRAIGHT CONNECTOR			
Product Code	Size (D1)	L	Z
404926	15mm	39	3
404927	20mm	47	3
404928	25mm	49	3





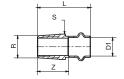
REDUCING COUPLING				
Product Code	Size (D1 x D2)	L	Z	
405133	20 x 15mm	47	7	
404935	25 x 15mm	54	13	
404936	25 x 20mm	52	7	





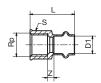
MALE COUPLING							
Product Code	Size (D1 x R)	L	Z	S			
404937	15mm x 1/2" BSP	43	25	22			
404938	20mm x 3/4" BSP	48	26	27			
404939	25mm x 1" BSP	54	31	34			





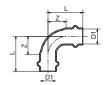
FEMALE COUPLING					
Product Code	Size (D1 x Rp)	L	Z	S	
404940	15mm x 1/2" BSP	41	8	26	
404941	20mm x 3/4" BSP	45	7	31	
404942	25mm x 1" BSP	50	8	39	





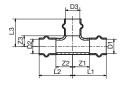
ELBOW - 90 DEGREE				
Product Code	Size (D1)	L	Z	
404929	15mm	32	14	
404930	20mm	43	21	
404931	25mm	53	30	





TEE							
Product Code	Size (D1 x D2 x D3)	L1	L2	L3	Z 1	Z2	Z3
404932	15mm	33	33	28	15	15	10
404933	20mm	42	42	36	20	20	14
404934	25mm	47	47	40	24	24	17





*Note: When installing High Temperature fittings for solar applications, the fittings should not be left in 'dry' installations as the temperature can exceed the performance of the fittings. Solar panels/tubes should be covered during installation until such time as the system is commissioned with water.

>B < Press Valves



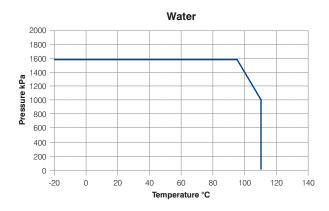


Technical Data

>B< Press Quarter Turn Ball Valves are suitable for use with hard, half hard or annealed type A and B copper tube complying with AS1432.

PRESSURE AND TEMPERATURE RATING						
Valve series	Size (DN)	PN				
Water (blue handle)	15 to 50	16				
Gas (yellow handle)	15 to 50	10				

Valves should only be installed in a system where the normal pressure and temperature does not exceed the stated rating of the valve. The maximum allowable pressure in valves as specified in standards is for non-shock conditions. Systems which create water hammer or impact should be avoided.



Water Supply Systems

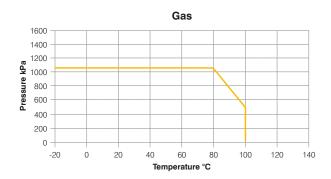
Application / Medium	Comments	
Hot and cold potable water	Australian WaterMark approved. WaterMark certification for all plumbing products is restricted to 1400kPa at 95°C.	
Pump circulated hot water systems	Capable of the required test pressure of 1700kPa or 1.5 times the design pressure as specified by AS2419.1	
Chilled water		
Steam		

Maximum Operating Parameters

1600 kPa from -20° to 95°C

1050 kPa from -20° to 100°C

Where system testing will subject a valve to pressures in excess of the working pressure rating, such testing should be within the "shell test pressure" for the body, to a maximum of 1.5 times the PN rating given for the valve. Any such test should be carried out with the valve in the fully open condition.



✓ Indicates compatibility. (Consultation required for unlisted mediums)
*Note: Installations need to comply to the relevant standards and local regulations.

P (kPa)	T (°C)	>B< Press Water Ball Valves	>B< Press Gas Ball Valves
1600	95	V	Х
1600	95	~	X
1000	5	~	X

Not compatible

Technical Data

Anti-Freeze / Corrosion Protection / Inhibitors

Auglication / Madisus		Comments
Application / Medium	Product	Manufacturer
	Antifrogen N	Clariant
	Antifrogen L	Clariant
	Antifrogen Sol (solar systems)	Clariant
Anti-freeze cooling concentration 50%	Ethylene Glycol (Ethan -1, 2-diol)	Various
0011001111411011 0070	Propylene Glycol (1,2-Propandiol)	Various
	Tyfoxit	Tyforop-Chemie
	Tyfocop	Tyforop-Chemie

Oils, cooling materials and lubricants

Application / Medium	Comments	
Engine oils and Lubricants (Petroleum-based)	Consultation required	
Heating oil, Diesel in acc. with EN590		

Gas

Application / Medium	Comments	
Natural Gas Liquid gas Propane Butane Methane	The scope of AS5601 for all gas systems is restricted to 200kPa	
Nitrogen		
Oxygen	Not compatible	
Compressed Air	Oil Concentration <25mg/m3	
Compressed Air	Oil Concentration >25mg/m3	

P (kPa)	T (°C)	>B< Press Water Ball Valves	>B< Press Gas Ball Valves
		~	X
		~	X
		✓	X
1600	-20 to 95	V	X
		V	×
		V	X
		V	X

P (kPa)	T (°C)	>B< Press Water Ball Valves	>B< Press Gas Ball Valves
1000	100	×	V
500	-20 to 40	х	V

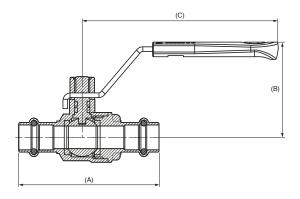
P (kPa)	T (°C)	>B< Press Water Ball Valves	>B< Press Gas Ball Valves
1050	-20 to 100	х	V
1050	100	х	V
1050	100	V	V
1050	100	х	v

>B< Press Water



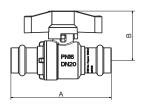
LEVER BAL	L VALVES			
Product Code	Size	Α	В	С
1005700	15mm	74	50	103
1005701	20mm	88.5	61	125
1005702	25mm	94.5	65	125
1005703	32mm	113	72	125
1005704	40mm	136.	5 91	182
1005705	50mm	169	99	182





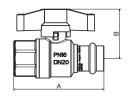
T-HANDLE	BALL VALVES			
Product Code	Size	Α	В	
1005759	15mm	74	38.5	
1005760	20mm	88.5	43.7	





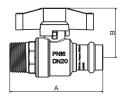
FEMALE T-HANDLE BALL VALVES			
Product Code	Size	Α	В
1005752	15mm x 1/2" BSP	66	38.5
1005753	20mm x 3/4" BSP	77	43.7





MALE T-HANDLE BALL VALVES			
Product Code	Size	Α	В
1005748	15mm x 1/2" BSP	69.5	38.5
1005749	20mm x 3/4" BSP	82	43.7

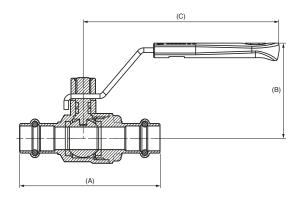






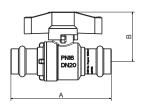
LEVER BAL	L VALVES			
Product Code	Size	Α	В	С
1005706	15mm	74	50	103
1005707	20mm	88.5	61	125
1005708	25mm	94.5	65	125
1005709	32mm	113	72	125
1005710	40mm	136.5	91	182
1005711	50mm	169	99	182





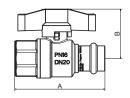
T-HANDLE			
Product Code	Size	Α	В
1005750	15mm	74	38.5
1005751	20mm	88.5	43.7





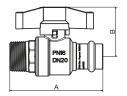
FEMALE T-H	HANDLE BALL VA	LVES	
Product Code	Size	Α	В
1005754	15mm x 1/2" BSP	66	38.5
1005755	20mm x 3/4" BSP	77	43.7





MALE T-HAI	NDLE BALL VALV	ES	
Product Code	Size	Α	В
1005762	15mm x 1/2" BSP	69.5	38.5
1005763	20mm x 3/4" BSP	82	43.7



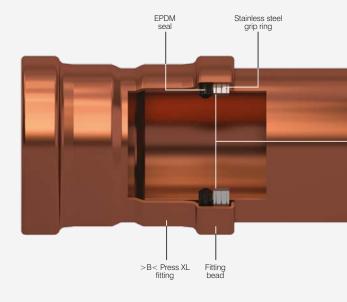


>XL Fittings 65-100mm<





Section through >B< Press XL fitting



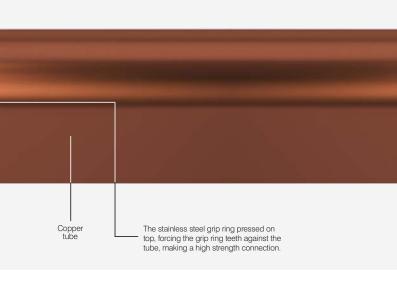
Product Features

>B< Press XL has only two internal parts, the grip ring and the seal. Both parts have an internal diameter larger than the tube, which allows for easy tube insertion and pre-press leak indication.



Stainless Steel Grip Ring

The full circumference grip ring ensures all round equal grip on the tube and an even seal compression between the tube and fitting after pressing.





Triple Point Seal

The triple point seal on the pressed fitting body counters any pressing distortion and gives greater seal contact area on the tube. The seal is self setting to ensure correct functioning, security and longevity. The seal is also not easily displaced by tube insertion.

Installation Instructions

To install >B< Press XL, a Rothenberger Romax 3000/4000 mechanical tool with actuator and compatible sized jaw to fit each size fitting is required. When pressure is exerted through the press tool, a permanent joint is made and the fitting cannot be disassembled or re-used.



Step 1 - Cut the pipe

- We recommend you use a Rothenberger pipe cutter. It is important to ensure that the pipe is cut completely square.
- Tube ends should be clean and free from scratches not less than the socket length.



Step 2 - Remove burrs

- Make sure that the internal and external tube end is free from burrs or sharp edges by using a file or deburring tool in one direction clockwise.
- Then wipe the tube end clean to avoid damaging the seal on tube insertion.



Step 3 - Inspect the fitting

- Keep fittings in original wrapping until required.
- Make sure the fitting is protected against dirt and contamination before use.
- Make sure the fitting and the bag are marked up for the correct application (Water or Gas).
- Select the correct size fittings for the tube.
- Before inserting the tube, check seal and grip ring for correct placement.



Step 4 - Insert the tube

- The tube must be fully inserted into the fitting until it reaches the tube stop in order to make a perfect joint.
- Marking insertion depth will ensure that any tube movement is detected, which is especially important if the joints are to be pressed at a later time. The depth marking must be visible on the pressed fitting.

Tube size Insertion depth

DN65 43 mm DN80 50 mm DN100 60 mm



Step 5 - Fit the pressing ring

 Using the appropriate size pressing ring, open the pressing ring, locate on the fitting bead and close the pressing ring.



Step 6 – Engage the actuator and check insertion depth

- With the actuator fitted in the press tool, open the actuator and locate the actuator into the aperture of the pressing ring.
- Check for any tube movement prior to pressing.



Step 7 - Press the joint

- Press and hold the trigger/button to begin the compression cycle of the tool. The tool automatically stops when the cycle has been completed.
- Release the button and then remove the jaws from around the fitting.



Step 8 - Joint completion

 Remove the actuator from the press ring, remove the press ring from the tube and remove the label to indicate the joint is pressed and complete.

Note: You must use an approved tool to maintain your warranty.

IMPORTANT

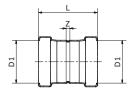
IT IS IMPORTANT TO KEEP THE FITTING FREE OF ANY DUST OR DIRT AND TO ENSURE THE SEAL STAYS LUBRICATED AND PROTECTED FROM DAMAGE. SELECT THE CORRECT SIZE OF TUBE AND FITTING FOR THE JOB. ENSURE THAT BOTH ARE CLEAN AND FREE FROM DAMAGE AND IMPERFECTIONS.

>B< Press XL Water



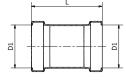
STRAIGHT	CONNECTOR		
Product Code	Size (D1)	L	Z
404793	65mm	92	4
404794	80mm	106	4
404795	100mm	126	4





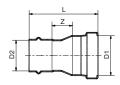
REPAIR CO	UPLER		
Product Code	Size (D1)	L	
405121	65mm	110	
405122	80mm	125	
405123	100mm	144	





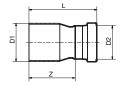
REDUCING	COUPLING		
Product Code	Size (D1 x D2)	L	Z
404822	65 x 32mm	101	30
404823	65 x 40mm	100	25
404824	65 x 50mm	100	24
404825	80 x 40mm	117	40
404826	80 x 50mm	119	36
404827	80 x 65mm	119	25
404828	100 x 50mm	142	43
404829	100 x 65mm	134	31
404830	100 x 80mm	135	25





FITTING RE	DUCER		
Product Code	Size (D1 x D2)	L	Z
404831	65 x 40mm	106	75
404832	65 x 50mm	103	64
404833	80 x 50mm	122	83
404834	80 x 65mm	131	87
404835	100 x 50mm	145	106
404836	100 x 65mm	139	96
404837	100 x 80mm	136	86



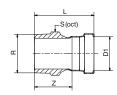


>B< Press XL Water



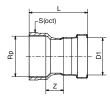
MALE COU	PLING			
Product Code	Size (D1 x R)	L	Z	S
404943	65mm x 2 1/2"	121	78	85
404944	80mm x 3"	126	78	95
404945	100mm x 4"	150	91	125





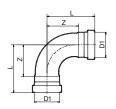
FEMALE CO	DUPLING			
Product Code	Size (D1 x Rp)	L	Z	S
404946	65mm x 2 1/2"	112	31	85
404947	80mm x 3"	114	33	95
404948	100mm x 4"	138	37	125





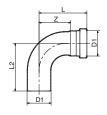
ELBOW - 90	DEGREE			
Product Code	Size (D1 x D2)	L	Z	
404796	65mm	126	82	
404797	80mm	150	98	
404798	100mm	192	132	





ELBOW M&	F - 90 DEGREE	:		
Product Code	Size (D1)	L	Z	L2
404857	65mm	132	88	146
404858	80mm	150	98	148
404859	100mm	192	132	212



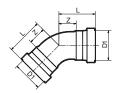


>B< Press XL Water



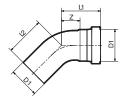
ELBOW - 45	DEGREE		
Product Code	Size (D1)	L	Z
404838	65mm	82	38
404839	80mm	95	45
404840	100mm	118	57





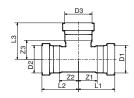
ELBOW M&	F - 45 DEGREE			
Product Code	Size (D1)	L1	Z	L2
404848	65mm	82	38	93
404849	80mm	95	45	100
404850	100mm	117	57	130





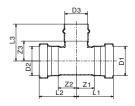
TEE							
Product Code	Size (D1 x D2 x D3)	L1	L2	L3	Z 1	Z 2	Z 3
404799	65mm	89	89	104	45	45	46
404800	80mm	101	101	111	50	50	52
404801	100mm	128	128	135	67	67	67





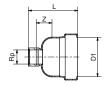
REDUCING	TEE						
Product Code	Size (D1 x D2 x D3)	Lt	L2	L3	Z 1	Z 2	Z 3
404802	65 x 65 x 50mm	84	84	90	40	40	44
404803	80 x 80 x 50mm	90	90	96	39	39	50
404804	80 x 80 x 65mm	93	93	108	42	42	52
404805	100 x 100 x 50mm	105	105	108	44	44	63
404806	100 x 100 x 65mm	105	105	123	44	44	66
404807	100 x 100 x 80mm	112	112	124	51	51	66





END CAP					
Product Code	Size (D1)	L	Z	Rp	
404841	65mm	86	21	3/4"	
404842	80mm	98	28	3/4"	
404843	100mm	115	39	3/4"	





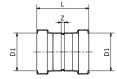
^{*}Note: You will need a 20mm threaded plug to cap off the end.

>B< Press XL Gas



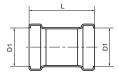
STRAIGHT	CONNECTOR		
Product Code	Size (D1)	L	Z
404867	65mm	92	4
404868	80mm	106	4
404869	100mm	126	4





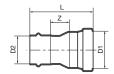
REPAIR CO	UPLER	
Product Code	Size (D1)	L
405130	65mm	110
405131	80mm	125
405132	100mm	144





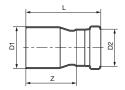
COUPLING		
Size (D1 x D2)	L1	Z
65 x 32mm	101	30
65 x 40mm	100	25
65 x 50mm	100	24
80 x 40mm	117	40
80 x 50mm	119	36
80 x 65mm	119	25
100 x 50mm	142	49
100 x 65mm	134	31
100 x 80mm	135	25
	Size (D1 x D2) 65 x 32mm 65 x 40mm 65 x 50mm 80 x 40mm 80 x 50mm 80 x 50mm 100 x 50mm 100 x 50mm	Size (D1 x D2) L1 65 x 32mm 101 65 x 40mm 100 65 x 50mm 100 80 x 40mm 117 80 x 50mm 119 80 x 65mm 119 100 x 50mm 142 100 x 65mm 134





FITTING RE	DUCER		
Product Code	Size (D1 x D2)	L	Z
404897	65 x 40mm	106	75
404898	65 x 50mm	103	66
404899	80 x 50mm	122	89
404900	80 x 65mm	131	87
404901	100 x 50mm	145	112
404902	100 x 65mm	139	96
404903	100 x 80mm	136	86



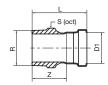


>B< Press XL Gas



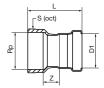
MALE COU	PLING			
Product Code	Size (D1 x R)	L	Z	S
405124	65mm x 2 1/2"	121	78	85
405125	80mm x 3"	126	78	95
405126	100mm x 4"	150	91	125





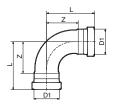
FEMALE CO	UPLING			
Product Code	Size (D1 x Rp)	L	Z	S
405127	65mm x 2 1/2"	112	31	85
405128	80mm x 3"	114	33	95
405129	100mm x 4"	138	37	125





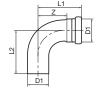
ELBOW - 90 DEGREE			
Product Code	Size (D1 x D2)	L	Z
404870	65mm	126	82
404871	80mm	150	98
404872	100mm	192	132





ELBOW M&	F - 90 DEGREE			
Product Code	Size (D1)	L	Z	L2
404923	65mm	132	88	146
404924	80mm	150	98	148
404925	100mm	192	132	212



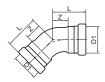


>B< Press XL Gas



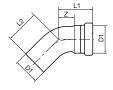
ELBOW - 45	DEGREE		
Product Code	Size (D1)	L	Z
404904	65mm	82	38
404905	80mm	95	45
404906	100mm	118	57





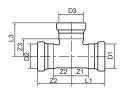
ELBOW M&F - 45 DEGREE				
Product Code	Size (D1)	L1	Z	L2
404914	65mm	82	38	93
404915	80mm	95	45	100
404916	100mm	117	57	130





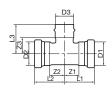
TEE							
Product Code	Size (D1 x D2 x D3)	L1	L2	L3	Z 1	Z 2	Z 3
404873	65mm	89	89	104	45	45	46
404874	80mm	101	101	111	50	50	52
404875	100mm	128	128	135	67	67	67





REDUCING TEE							
Product Code	Size (D1 x D2 x D3)	Lt	L2	L3	Z 1	Z 2	Z3
404876	65 x 65 x 50mm	84	84	90	40	40	44
404877	80 x 80 x 50mm	90	90	96	39	39	50
404878	80 x 80 x 65mm	90	90	96	39	39	50
404879	100 x 100 x 50mm	105	105	108	44	44	63
404880	100 x 100 x 65mm	105	105	123	44	44	66
404881	100 x 100 x 80mm	112	112	124	51	51	66





END CAP				
Product Code	Size (D1)	L	Z	Rp
404907	65mm	86	21	3/4"
404908	80mm	98	28	3/4"
404909	100mm	115	39	3/4"





^{*}Note: You will need a 20mm threaded plug to cap off the end cap.





Design Considerations

Pipework support

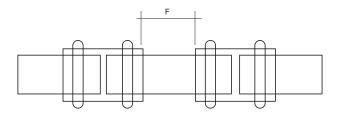
All pipework should be supported by the use of appropriate clips, brackets or supports. Please refer to requirements listed in AS/NZS 3500 for specific details in relation to the particular application.

Distance between fittings

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

Tube Size	Minimum Clearance F (mm)
15mm	5
20mm	5
25mm	5
32mm	10
40mm	15
50mm	20
65mm	15
80mm	15
100mm	15

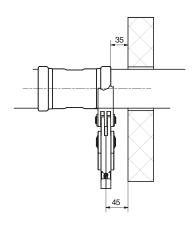
F – Clearance Between Fitting Ends



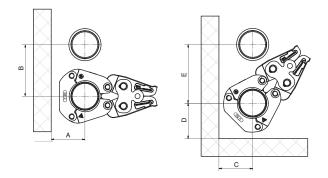
Minimum clearance requirements

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

Tube Size	Minimum Cle	arance (mm)
	Romax Compact/Compact TT	Romax 3000/4000
15-25mm	35	45
32-50mm	-	45
65-100mm	-	45



Tube Size		Minimum Clearance (mm)				
Tube Size	Α	В	С	D	E	
65mm	90	130	90	90	150	
80mm	95	145	95	100	165	
100mm	110	165	110	115	190	



Pipework protection

Copper has a high resistance against corrosion. However, in some cases external protection may be necessary against corrosive conditions. Please refer to AS/NZS 3500 and AS/NZS 5601 for full pipework protection requirements for water and gas installations, respectively.

Localised annealing

To ensure proper sealing of both the brazed and >B< Press fitting, the following minimum distances must be maintained between the two fittings.

Tube Size	Minimum Clearance F (mm)
15mm	5
20mm	5
25mm	5
32mm	10
40mm	15
50mm	20
65mm	15
80mm	15
100mm	15

Note: It is important that there is no residual solder or other foreign debris on the tubing to be inserted into the -B< Press fitting. The surface condition on the area of press joint should be as tube standard AS 1432.

Brazing near >B< Press fittings

Caution – Brazing or soldering near > B < Press joints should be avoided as this may cause the seal to degrade due to heat transfer. The table below 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 barrier (such as Rectorseal Hot Block), to prevent heat transfer to the press fitting during brazing.

Tube Size	Minimum Clearance F (mm)
15mm	350
20mm	500
25mm	650
32mm	800
40mm	1000
50mm	1300
65mm	1600
80mm	2000
100mm	2500

Flushing of water installations

When the installation is complete, it is essential to flush with water to remove dust and debris in accordance with AS/NZS 3500.

Testing and commissioning installations

The unique pressing indicator is a specially designed O-ring. It has a reduced section in two positions that allows water or air past the sealing element of any unpressed connection, thereby providing a visible leakage point during the commissioning of the system. Unpressed fittings are identified by pressurising the system with a pressure range of 100kPa to 500kPa for water and 2.2kPa to 300kPa for gas. When the fitting is pressed, the O-ring material compresses, filling the gaps, creating a leak free joint. During installation and before putting >B < Press into service, it is advisable to make a certain number of checks including:

All fitting connections in a system should remain visible and accessible until leak and pressure tested.

WATER SYSTEMS

To ensure that all press joints have been successfully completed, a low pressure test is applied as follows:

- · After flushing, fill the system with water and check for visible leaks.
- No leak. Apply a test pressure of between 100 and no more than 500kPa.
- No leak. Final testing should be conducted in accordance with AS/NZS 3500.

GAS SYSTEMS

If a joint has not been pressed, it will not hold pressure when tested at 2.2 to 300kPa.

Test as per the normal requirements of AS/NZS 5601.





Recommended Tools

Rothenberger press tools and jaws have been specifically engineered for >B< Press

With strict Australian piping tolerances, it is imperative that your tool works in unison with your press fittings. Therefore, it is recommended to use Rothenberger press tools when installing >B< Press for the best press solution.

Rothenberger Romax Compact TT



Application sizes: 15-32mm >B< Press Fittings

- Compact, lightweight, twin cylinder design optimised for one hand operation.
- CFT® technology for constant axial 19kN shearing force.
- Safety latch to ensure jaw cannot come out during operation.
- Easy to use LED status indication flashing red when battery charge is low and will lock the machine.
- Simple and safe operation design with hold start button tool automatically stops once press cycle is complete.
- Safety yellow button press to release pressure and stop press cycle.
- Convenient 20,000 cycle interval between service requirements.
- Head positioning up to 270° rotation easy fitting in difficult locations.
- Li-lon battery technology long lasting operation between charges.
- · Patented AIR COOLED charging technology.

Rothenberger Romax Compact TT Tool Kits



Rothenberger F	Rothenberger Romax Compact TT Tool and Jaw Kits		
Code	Description		
8078100	Rothenberger Compact TT Tool Only		
8078107	Rothenberger Compact TT >B< Press Tool Kit 15-25mm		
8078050	Rothenberger Compact TT >B< Press Jaw & Case Set 32-40mm		

Specifications

Battery voltage – 18V Battery capacity – 2Ah and 4Ah Max piston force – 19kN Pressing time – 3 seconds Dimensions (LxWxH) – 8cm x 14.3cm x 33.6cm	Working range:		
	Copper System 15 - 40mm Typical A-rate noise level – 71dB(A) Battery re-charge time		
			periods – 2Ah = 40 minutes, 4Ah = 80 minutes
			Weight (less jaws) – 2.5kg

Rothenberger Romax®

4000 model



Application sizes: 15-100mm >B< Press Fittings

Ergonomically designed and better weight distribution compared to the 3000 – reducing fatigue during extended use.

- · Wide application range.
- Fast pressing automatic cycle complete in 4 seconds.
- Easy to use LED status indication flashing red when battery charge is low and will lock the machine, remains ON when tool has reached 40,000 cycles of use and requires servicing.
- Bright white light LEDs to illuminate work space during pressing cycle.
- Simple and safe operation design hold start button tool automatically stops once press cycle is complete.
- Safety yellow button press to release pressure and stop press cycle.
- Long 40,000 cycle interval between service requirements.
- Head positioning up to 270° rotation easy fitting in difficult locations.
- Li-lon battery technology long lasting operation between charges.

Romax 4000 Tool Kits



Rothenberger F	Rothenberger Romax 4000 Tool and Jaw Kits		
Code	Description		
7701304	Rothenberger 4000 Tool Only 18v		
7701000	Rothenberger 4000 >B< Press Tool Kit 15-50mm		
7701206	Rothenberger 3000/4000 >B< Press Jaw Set 65-100mm		

Specifications

Battery voltage – 18V	Working range:	
Battery capacity – 2Ah and 4Ah	Copper System 15 - 100mm	
Rated power consumption – 540 Watts Max piston force – 32kN	Typical A-rate noise level – 71dB(A)	
	Battery re-charge time periods	
	2Ah = 40 minutes, 4Ah	
Pressing time – 4 secs (nominal)	= 80 minutes	
Dimensions (LxWxH)		
– 447x125x75mm		
Weight (less jaws) – 3.54 kg		

Rothenberger XL Press Jaws & Actuator

For Romax® Press Tools



An actuator and appropriately sized jaw are required to press >B < Press XL fittings.

To complete a press, the jaw is opened and located on the fitting bead. The actuator is connected to the tool, ensuring the locking pin is fully engaged. With the actuator fitted in the press tool, open the actuator and locate the actuator into the aperture of the pressing ring. To perform the press, hold the trigger of the tool until the press cycle of the tool is automatically completed.

XL Press Jaws For Romax® Press Tools

- Made of forged, highly resilient special steel
- Compact design
- · Long-term corrosion protection
- Optimised for minimal space requirements



- Precision-manufactured contours for optimum and reliable pressings
- Made of forged, highly resilient special steel
- · Long-term corrosion protection





Critical Operating Instructions - Tool & Jaw

Only operate the Rothenberger press tool and jaws as per instructions in your 'User Operating Manual, Instructions for Use'. Proper usage includes compliance with the operating manual, inspection and servicing conditions and adherence to all relevant safety regulations. The equipment must only be used by qualified tradespeople that have a trained understanding on how to use the press tool and jaw system properly. Failure to do so will lead to safety risk, poor workmanship, and incorrect use of the press tool and jaw that is not covered under warranty. Only use Rothenberger press tool and jaws with compatible press fittings that have been tested and approved by Rothenberger and associated fitting and pipe manufacturers (>B< Press, Auspex, Duopex).

- Always start with a safety check, reminding yourself of the yellow emergency stop button to deactivate a press cycle.
- Charge battery fully before first use for optimal number of 'presses per charge'.
- LED flashes red to indicate when you have a flat battery.
- Insert battery correctly until it clicks into place and LED light flashes briefly to indicate contact made.
- Insert press jaw and close bolt down correctly.
 Only use the correct jaw to tool to fitting combination.
- Open the jaw by squeezing from the base of the jaw NOT the front tip (it can crush your fingers!).
- Place jaw squarely on fitting. Align with bead.
- Half engage the start button for the handy LED lights.
- Fully engage the start button for a full press cycle.
 Activate the press tool and jaw only on a fitting.
- Take the time to ensure the correct pipe preparation cut pipe square, deburr, remove sharp edges and oxidation and mark insertion depth. These pipe prep steps are critical for a correct press and quality workmanship.
- Follow all installation instructions supplied by the fitting and pipe manufacturers. Imperfect pipe joints must only be pressed again using a new fitting, DO NOT re-press the same fitting.
- During the press cycle, visually check that the press jaw fully closes at the end of the press cycle.
- After pressing, check the installation with appropriate testing equipment and ensure it is leak-proof.

Regular Maintenance Instructions Tool & Jaw

Tool - Always clean and grease and store in case

Your Rothenberger Tool is one of the lightest and most ergonomic designed tools that delivers the most consistent press force (CFT® - Constant Force Technology). With regular maintenance and service it generates up to 3.2 tonnes of force in your hand, so it requires regular care and maintenance.









- Clean and grease the piston ram and drive rolls ALWAYS after every use to maintain performance – especially the internal guide rail OR all the 'moving metallic parts'.
- Watch heavy water areas. Do not expose power tools to rain or wet conditions. Always store in case.









- Ensure the jaw locking bolt is closed correctly by fully inserting the bolt through the jaw and rotating the bolt arm down 180 degrees.
- **Note:** The bolt is only secured when fully inserted and rotated into the downward position.



Battery – Always clean contact points and store in a charged state





- 1. Clean contact points on battery and only store battery in a charged state, plus it's always ready for use.
- Do not force the press tool it will do the job better and safer at the rate for which it was designed.
- Accidents are caused by poorly maintained press tools and jaws. Take the time to maintain properly.

Jaws - Always clean, apply lubricant spray and store in case







- Clean jaws ALWAYS after every use. Keep the inside jaw profile free of any grease and grit.
- Jaws must be maintained with liquid lubricant spray.
 Do not use spray on the tool, only the jaws.
- Ensure any excess spray is removed. Always store in case.



Servicing and Warranty - Tool and Jaw

Rothenberger prides itself on leading edge design, the highest quality, and leading after-sale service support. With ownership of your Rothenberger Tool comes our commitment to support you. We want to help you look after your tool, so you don't compromise your reputation.

- Simply return your Rothenberger press tool and jaw set to your local Reece branch they will sort out the rest.
- A qualified tool service technician will inspect and service your tool to ensure high performance and safety.
- Comprehensive spare parts are readily available locally to support your Rothenberger tool and jaws.
- Jaws will also be checked at the annual service interval for any damage, defects and general wear and tear that could affect the press performance or safety.

Warranty Coverage

- After 1 year or 20,000 (Romax Compact/Compact TT) or 40,000 (Romax 3000/4000) presses the LED lights up red after each press.
- A press cycle count will be made as part of your annual tool and jaw servicing and report.
- If a serial number sticker is damaged, the warranty will be null and void.
- The warranty does not cover damage caused by incorrect use of the equipment.
- Tool 4 years, only with regular 1 year or cycle count servicing (like servicing your car!).
- · Battery 12 months, jaws 12 months.

Frequently Asked Questions

- Q. How long has Conex Bänninger been around? A. Since 1909. Q. Where are the products manufactured? A. Poland and Spain. Q. What grades of copper tube do the fittings suit? A. Annealed, half hard and hard drawn type A and B plumbing tube to AS1432. Q. How do you install >B< Press fittings? A. Please see 'Installation Instructions' section on pages 20-21 for >B< Press, and pages 60-61 for >B< Press XL. Q. Can you press a fitting more than once? A. No, >B< Press fittings can be pressed only once. Q. Can you rotate a >B< Press fitting once installed? A. No, once pressed, they cannot be rotated. Q. Can >B< Press be dismantled and reused? A. No, this is a permanent installation. Q. Can the O-rings from Water and Gas fittings be swapped? A. No, the O-ring is integral to the seal of the fitting. Swapping the O-ring increases the risk of damage and therefore O-rings are not to be interchanged. Water and Gas O-rings are also made from different materials and are therefore not suitable for the same applications.
 - Q. What pipe preparation is required?
- A. Please see 'Installation Instructions' on pages 20-21 for >B< Press and pages 60-61 for >B< Press XL.
- Q. When using with older pipes, how do you prepare the surface?
- A. The surface should be prepared in the same way as with new pipe. Provided there is no corrosion, the tube dimensions comply with AS 1432 (type A & B) and the fittings are installed correctly, there are no warranty issues. *Note: Warranty is limited to faults due to the manufacturing defects of the fittings not incorrect installation or installation on faulty or corroded pipe.

- Q. What applications can >B< Press be used in?
- A. >B< Press fittings are suitable for use across a wide range of applications, depending on medium, temperature and pressure. Please see 'Technical Data' section on pages 16-19.
- Q. What pressure do you need to test to and for how long to show any leaks?
- A. Unpressed fittings are identified by pressurising the system with a pressure range of 100kPa to 500kPa for water and 2.2kPa to 300kPa for gas. Final testing of the system should be conducted in accordance with AS/NZS 3500 and/or AS/NZS 5601.
- Q. If a fitting leaks on installation, can you weld the fitting rather than cutting out the joint and having to replace missing tube?
- A. No, if a fitting that has been pressed is leaking, the fitting must be cut out and replaced. You should not attempt to weld the fitting as you will melt the O-ring, destroying the sealing element.
- Q. What material is the O-ring made of?
- A. The O-ring is manufactured from a high quality:
 - Black Ethylene Propylene Diene Monomer (EPDM) material for Water fittings
 - Yellow Hydrogenated Nitrile Butadiene Rubber (HNBR) material for Gas fittings
 - Red Flurocarbon (FKM) material for High Temperature fittings
- Q. Can it be used with medical gas?
- No, the fittings are not recommended for use with medical gas.
- Q. Can it be exposed to direct sunlight and heat?
- A. Yes please see table on pages 16-19 for limitations due to pressure and temperature.
- Q. Does the clipping of fittings/jobs differ from a welded copper application?
- A. No, the same type of clips can be used. See 'Pipework support' on page 76.
- Q. Can the fittings be placed in ground with all types of soils?
- A. Yes however, whilst copper has a high resistance against corrosion, in some cases external protection may be necessary against corrosive conditions. Refer to AS/NZS 3500 and AS/NZS 5601 for full pipework protection requirements.

- Q. Can the fittings be used for solar installations?
- A. >B< Press Water fittings are not recommended for solar installations. >B< Press High Temperature fittings are recommended for these installations.
- Q. What is the recommended space between fittings?
- A. Please see 'Distance between fittings' section on page 76.
- Q. Can the fittings be used on compressed air or oil lines?
- A. >B< Press Water fittings are recommended for compressed air (oil free) and >B< Press Gas fittings are suitable for all compressed air applications.
- Q. What are the benefits of >B< Press fittings?
- A. >B< Press is a flame-free solution, that is fast, simple and reliable to install. Please see 'Key Features' section on pages 4-5.
- Q. Are there any restrictions in regards to where flanges can be used?
- A. Providing the selection of the sealing gasket considers the same system parameters and application, flanges may be used in all situations that other >B< Press fittings cater for.</p>
- Q. Can you braze (silver soldering) near a >B< Press connection?
- A. Please see 'Brazing near >B < Press fittings' section on page 78.
- Q. Can >B< Press handle suction or negative pressure?
- A. Yes, >B< Press fittings are tested at a vacuum test pressure of -80kPa at ambient temperature.
- Q. Can >B< Press be installed on pipes where the mains line won't shut off?</p>
- A. Yes, the fitting can be used in wet conditions and after pressing, will provide a watertight joint.
- Q. Do I need to lubricate the O-ring?
- A. No, the O-ring is prelubricated. Additional lubricants could impact on the life of the O-ring and void the warranty. If the O-ring appears dry, a small amount of water can be used to lubricate it.

- Q. Can >B< Press fittings be used on chrome tube?
- A. Yes, provided that the tube complies with AS1432. However, it is recommended to test a piece first as some splitting of the chrome may occur.
- Q. When pressed on small size fittings, (particularly elbows) a small amount of rotational movement can be induced to the joint. Will this affect the security of the joint?
- A. No, some rotational movement is quite acceptable, the joint will not leak nor will it come apart under the pressure loading and during system operation. Some joint movement is good as it will allow for expansion and contraction in the pipework system.
- Q. How should >B< Press fittings be stored?
- A. Fittings should be stored in a cool, dry place in their original packaging. This protects the fittings from contamination, damage and dirt and conserves the lubrication on the O-rings prior to installation.
- Q. What is the warranty on >B< Press fittings?
- A. >B< Press has a 25 year warranty from the date of purchase.
 This covers against faults caused by defective manufacture of fittings. It does not cover faults arising from incorrect installation. All >B< Press fittings must be installed by a licensed plumber.

For more information, visit www.conexbanninger.com.au

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