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## Overview

The Ezi Press™ system provides a complete press fit system for copper tube with specific fitting ranges for Gas or Water applications.

No more brazing, soldering or flaring required. All joints are simply assembled with a pressing tool for a quick, neat and secure result first time, every time.

Covering size ranges from DN15 to DN100 with a broad range of fittings available, the resulting cost savings will show up right from your first job.

The Ezi Press™ product range is manufactured from high quality Copper and DZR Brass material and is factory fitted with either a yellow HNBR sealing element for gas applications, a black EPDM sealing element for water applications and the latest addition to the range a red FKM sealing element for solar water applications.

All installations should be carried out by an appropriately licensed tradesperson and in full accordance with the Ezi Press™ installation guidelines, the relevant Australian standards and any additional local authority requirements. When installed subject to the above conditions the Press Plus™ system will provide years of trouble free service

Ezi Press™ is a complete solution for all gas, solar and water applications.

## Application

Traditional methods for joining copper tube have previously involved heating or flaring of the tube, which can be both dangerous and time consuming.

The Ezi Press™ system uses a pressing tool to produce a secure joint in a minimal amount of time. The pressing method guarantees a perfect seal every time, and eliminates the need for call backs to repair partially welded joints etc.

Ezi Press™ Gas fittings may be used in accordance with AS/NZS 5601:2010 for gas applications including:

- Natural Gas
- Liquid Propane Gas (L.P.G)

Ezi Press™ Water fittings may be used in accordance with AS/NZS 3500 for water applications including:

- Hot and Cold Potable Water
- Grey Water
- Waste and Drainage Systems

Ezi Press™ Solar fittings may be used in accordance with AS/NZS 3500 for water applications including:

- Solar Hot Water

For optimum performance results please take the time to become familiar with the installation considerations outlined from page 7 in this booklet.

## Copper Tube

Ezi Press™ Gas fittings are suitable for use on all copper tube provided it complies with AS 1432-2004 and is installed in accordance with AS/NZS 5601:2010 for pressure applications not exceeding 200kPa.

Ezi Press™ Solar & water fittings are suitable for use on all copper tube which complies with AS 1432-2004 (being either Type A, or B) and must be installed in accordance with AS/NZS 3500. Ezi Press™ solar & water fittings are not suitable for installation using annealed copper.

## Fittings - Gas

Ezi Press™ Gas fittings are manufactured from high quality copper and/or DZR Brass material with a factory fitted high performance yellow Hydrogenated Nitrile Butadiene Rubber (HNBR) sealing element.

HNBR is widely known for its physical strength and retention of properties after long-term exposure to heat, oil and chemicals. HNBR is not suitable for food contact applications and cannot be used in drinking water applications.

All Ezi Press™ Gas fittings are stamped with a yellow "G" for easy identification.

All Ezi Press™ Gas fittings are manufactured to comply with AS 3688-2005. They carry the Watermark licence number WMKA23102. Installations should be carried out in accordance with AS/NZS 5601:2010.

## Fittings - Water

Ezi Press™ Water fittings are manufactured in high quality Copper or DZR Brass material with a factory fitted high performance black Ethylene Propylene Diene Monomer (EPDM) sealing element.

EPDM is a synthetic rubber product that is strong and flexible, resists decay and provides good resistance to aging, ozone, sunlight, weathering and hot water, which makes it ideal for seals in a broad range of applications. It is also recommended for drinking water applications.

All Ezi Press™ Water fittings are stamped with a blue "W" for easy identification.

In accordance with AS 3688-2005, Ezi Press™ water fittings can operate within temperature range of -20°C to 95°C.

All Ezi Press™ Water fittings are manufactured to comply with AS 3688-2005 and carry the Watermark licence number WMKA23102. Installations should be carried out in accordance with AS/NZS 3500.

## Fittings - Solar

Ezi Press™ Solar fittings are manufactured in high quality copper or DZR Brass material with a factory fitted high performance red Fluoroelastomer (FKM) sealing element.

Fluoroelastomers are specialty polymers that possess excellent resistance to elevated temperatures making them ideal for solar applications.

All Ezi Press™ Solar fittings are stamped with a red "S" for easy identification.

In accordance with AS 3688-2005, Ezi Press™ solar fittings can operate within temperature range of -20°C to 170°C.

All Ezi Press™ Solar fittings are manufactured to comply with AS 3688-2005 and carry the Watermark licence number WMKA23102. Installations should be carried out in accordance with AS/NZS 3500.

## Features and Benefits

### Press Jointing Method

- Fast
- Secure
- Simple to use
- Decreased risk of operator error

### Flame-free Assembly

- Increased safety
- No need for Gas Cylinders or Hot Works permits
- Reduced costs on welding consumables

### Size Range DN15 – DN100

- Fittings available for most tasks

### Full Flow Fittings

- In most cases fittings maintain full bore size of tube

### Dedicated Tooling

- Generally puts the product out of reach to non tradespeople therefore securing your livelihood



## Installation Considerations

Ezi Press™ Gas should always be installed in compliance with AS/NZS 5601:2010. Press Plus™ Water should always be installed in compliance with AS/NZS 3500.

All installations should be by appropriately licensed tradespeople, in full accordance with the Ezi Press™ installation guidelines, the relevant Australian standards and any additional local authority requirements. Most installation requirements can be sourced from this document.

### **Copper Tube Cutting**

It's recommended that copper tube should only be cut with a wheel-type tube cutter. To prevent damage to the sealing ring, it is essential to deburr both the inside and outside of all copper tube prior to insertion of any Ezi Press™ fitting.

### **Working Pressure**

Ezi Press™ Gas is suitable for use in applications covered by AS/NZS 5601:2010, where all consumer piping is restricted to 200kPa maximum pressure.

All Ezi Press™ Water, Solar and Gas fittings have been tested to a maximum operating pressure of 1600kPa.

## **Protection of Sealing Element**

The sealing element is critical to the integrity of the joint. Care should be taken to protect it from damage.

Simple precautions include:

- Ensuring the seal ring is properly located in the fitting
- Ensuring the ring is well lubricated
- Ensuring the ring is not contaminated by any foreign material

## **Connection to Other Materials**

Ezi Press™ is suitable for connection to most existing pipe work systems by utilising our range of Press Plus™ threaded adaptors. When installing a Ezi Press™ threaded adaptor, it is recommended that the threaded connection be installed first, before performing the pressing operation. It is important that the spanner flats on the fittings are used rather than gripping the tube section of the fitting.

## Minimum Clearances

When installing two Ezi Press™ fittings in close proximity to one another, it's essential that a minimum clearance be maintained between the two. This ensures that the tube being pressed is free of any deformities which might be caused in the pressing process. The table below provides the minimum clearances required between two fittings:

Nom Size	Minimum Clearance (mm)
DN15	5
DN20	5
DN25	5
DN32	15
DN40	20
DN50	20
DN65	20
DN80	20
DN100	20



When a Ezi Press™ fitting is being installed close to an existing brazed fitting, the clearances in the following table need to be observed. This will ensure that the press fitting is kept clear of tube that may have been excessively annealed during the brazing process.

Nom Size	Minimum Clearance (mm)
DN15	10
DN20	10
DN25	15
DN32	15
DN40	20
DN50	20
DN65	20
DN80	20
DN100	20



Brazing close to Ezi Press™ fitting joints should be avoided as the heat generated by the process can damage the seals of the fitting. To ensure that damage is not caused, the minimum clearances in the following table should be observed. It's also recommended that additional heat suppression methods are employed to prevent damage to the joint.

Nom Size	Minimum Clearance (mm)
DN15	400
DN20	500
DN25	700
DN32	900
DN40	1000
DN50	1300
DN65	1700
DN80	2100
DN100	2600



## **Protection from Physical Damage**

Due care should be taken to protect Ezi Press™ fittings from any mechanical or chemical damage both prior to, during and after installation.

Where Ezi Press™ fittings and/or copper tube penetrate timber or metal framework, appropriate precautions should be taken to protect it from damage. Holes should be sized to allow for longitudinal movement, expansion and contraction, whilst still securing the pipe adequately. Suitable grommets or sleeves should be used in metal frames to protect the Ezi Press™ fittings and copper tube from abrasion.

## **Clipping**

All Ezi Press™ fittings should be clipped by way of a recognised fixing which complies with the requirements of AS/NZS 5601:2010 for gas applications or AS/NZS 3500 for water and solar applications.

Fixing spacing should be observed for both horizontal and vertical pipe runs as outlined on the table below.

<b>Nom Size</b>	<b>Vertical or Horizontal Run Spacing (m)</b>
DN15	1.5
DN20	1.5
DN25	2.0
DN32	2.5
DN40	2.5
DN50	3.0
DN65	3.0
DN80	3.0
DN100	4.0

For pipe work being suspended on rod hangers the minimum diameter of the rod hanger should be 9.5mm for all tube sizes up to and including 50mm and 12.7mm up to 100mm

## **Chases, In-Slab, Under-floor**

Where Ezi Press™ fittings and copper tube are installed in chases or cast in slabs the installation must be in accordance with AS/NZS 5601:2010 for gas applications and AS/NZS 3500 for water applications and/or any other relevant building regulations or standards.

## **Underground**

Ezi Press™ fittings and copper tube should be buried with a minimum cover of 300mm. Bedding/backfill material must be of a type that will not have an adverse effect on the tube or fittings. Sand is recommended. Marker tape should be installed approximately 150mm above the tube. Ezi Press™ fittings should be able to be installed directly in the trench without any form of coating. Additional precautions should obviously be taken in areas where aggressive soil conditions are known to exist or where it may be a requirement of the local certifying authority.

## **Appliance Connection**

Ezi Press™ Gas fittings can be installed as an appliance connection in accordance with AS/NZS 5601:2010, provided that an appropriate means of disconnection is incorporated.

## **Testing**

All testing should be undertaken in accordance with AS/NZS 5601:2010 - Appendix E (pressure testing for gas installations) or AS/NZS 3500 for water installations in addition to any other local regulations or requirements.

During testing all joints should be checked for leaks.



## Jointing Instructions

### 1. Cut Copper Tube

Cut Copper tube to desired length with a wheel-type tube cutter. Cut should be square and free from any swarf or burrs. Tube should be free from any surface defects or contamination that may affect the integrity of the joint.



### 2. Deburr Copper Tube

Ensure you deburr both the inside and outside of the copper tube prior to insertion of Press Plus™ fittings.



### 3. Check the Seal

Check the yellow HNBR seal (gas) or black EDPM seal (water) or red FKM (solar) is clean, sufficiently lubricated & correctly sealed.



### 4. Mark

Mark the minimum insertion depth on the tube by inserting the tube fully into the fitting and marking tube at outer edge of the fitting. This will help detect any tube movement prior to pressing.



## 5. Insert

Insert the tube into the fitting until it reaches the full engagement depth as marked.



## 6. Press

Ensure that the appropriate size jaws are fitted. For sizes 65mm and above place the pressing adaptor around the fitting first. For all other sizes position the press tool jaws over the fitting. Make sure the raised ring of the fitting is positioned in the groove of the jaw or in the pressing adaptor for 65mm fittings & above. The tool should be positioned perpendicular to the fitting. Depress the tool trigger until the pressing is complete. Also refer to tool-maker's instructions for specific details on the use of their tools.



## 7. Pressure Test

At completion, carry out pressure testing. All testing should be undertaken in accordance with AS/NZS 5601:2010 - Appendix E (pressure testing for gas installations) or AS/NZS 3500 (for water installations) in addition to any other local regulations or requirements.

# Ezi Press™ fittings

## PRODUCT DESCRIPTION

### COUPLING



SIZE	PART # (WATER)	PART # (GAS)	PART # (SOLAR)
DN15	W100101	G100101	S100101
DN20	W100102	G100102	S100102
DN25	W100103	G100103	S100103
DN32	W100104	G100104	
DN40	W100105	G100105	
DN50	W100106	G100106	
DN65	W100107	G100107	
DN80	W100108	G100108	
DN100	W100109	G100109	

### REDUCING COUPLING - SOCKET x SOCKET



DN20 X DN15	W100201	G100201	S100201
DN25 X DN15	W100202	G100202	S100202
DN25 X DN20	W100203	G100203	S100203
DN32 X DN20	W100204	G100204	
DN32 X DN25	W100205	G100205	
DN40 X DN20	W100206	G100206	
DN40 X DN25	W100207	G100207	
DN40 X DN32	W100208	G100208	
DN50 X DN20	W100220	G100220	
DN50 X DN25	W100209	G100209	
DN50 X DN32	W100210	G100210	
DN50 X DN40	W100211	G100211	
DN65 X DN25	W100221	G100221	
DN65 X DN32	W100222	G100222	
DN65 X DN40	W100212	G100212	
DN65 X DN50	W100213	G100213	
DN80 X DN40	W100214	G100214	
DN80 X DN50	W100219	G100219	
DN80 X DN65	W100216	G100216	
DN100 X DN50	W100217	G100217	
DN100 X DN65	W100218	G100218	
DN100 X DN80	W100223	G100223	

### SLIP REPAIR COUPLING



SIZE	PART # (WATER)	PART # (GAS)	PART # (SOLAR)
DN15	W100301	G100301	
DN20	W100302	G100302	
DN25	W100303	G100303	
DN32	W100304	G100304	
DN40	W100305	G100305	
DN50	W100306	G100306	
DN65	W100307	G100307	
DN80	W100308	G100308	
DN100	W100309	G100309	

### MALE ADAPTOR



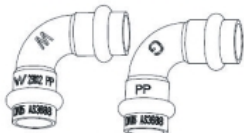
DN15 X 15BSP MALE	W100401	G100401	S100401
DN20 X 15BSP MALE	W100409	G100409	
DN20 X 20BSP MALE	W100402	G100402	S100402
DN25 X 25BSP MALE	W100403	G100403	S100403
DN32 X 32BSP MALE	W100404	G100404	
DN40 X 40BSP MALE	W100405	G100405	
DN50 X 50BSP MALE	W100406	G100406	

### FEMALE ADAPTOR



DN15 X 1/2"FI	W100408	G100408	S100408
DN20 X 3/4"FI	W100407	G100407	S100407
DN25 X 1"FI			S100409

### ELBOW 90° SOCKET X SOCKET



DN15	W100501	G100501	S100501
DN20	W100502	G100502	S100502
DN25	W100503	G100503	S100503
DN32	W100504	G100504	
DN40	W100505	G100505	
DN50	W100506	G100506	
DN65	W100507	G100507	
DN80	W100508	G100508	
DN100	W100509	G100509	

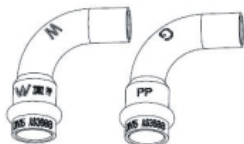


### ELBOW 45° SOCKET x SOCKET



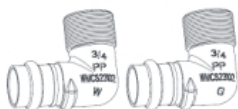
SIZE	PART # (WATER)	PART # (GAS)	PART # (SOLAR)
DN20	W101008	G101008	
DN25	W101001	G101001	
DN32	W101002	G101002	
DN40	W101003	G101003	
DN50	W101004	G101004	
DN65	W101005	G101005	
DN80	W101006	G101006	
DN100	W101007	G101007	

### ELBOW 90° SOCKET x SPIGOT



DN15	W102101	G102101	
DN20	W102102	G102102	
DN25	W102103	G102103	
DN32	W102104	G102104	
DN40	W102105	G102105	
DN50	W102106	G102106	

### MALE ELBOW



DN20 X DN20 MI	W102201	G102201	
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### FEMALE ELBOW



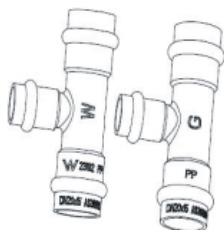
DN20 X DN20 FI	W102501	G102501	
DN25 X DN20 FI	W102502	G102502	

### EQUAL TEE



DN15	W100701	G100701	S100701
DN20	W100702	G100702	S100702
DN25	W100703	G100703	S100703
DN32	W100704	G100704	
DN40	W100705	G100705	
DN50	W100706	G100706	
DN65	W100707	G100707	
DN80	W100708	G100708	
DN100	W100709	G100709	

**REDUCING TEE  
(END x END x BRAND)**



SIZE	PART # (WATER)	PART # (GAS)	PART # (SOLAR)
DN20 X DN15 X DN15	W100801	G100801	
DN20 X DN20 X DN15	W100802	G100802	
DN20 X DN15 X DN20	W100803	G100803	
DN25 X DN25 X DN15	W100821	G100821	
DN25 X DN25 X DN20	W100804	G100804	
DN32 X DN32 X DN20	W100822		
DN32 X DN32 X DN25	W100808	G100808	
DN40 X DN40 X DN32	W100811	G100811	
DN50 X DN50 X DN40	W100814	G100814	
DN65 X DN65 X DN50	W100815	G100815	
DN80 X DN80 X DN65	W100817	G100817	
DN100 X DN100 X DN80	W100820	G100820	

**UNION # 62**



DN15 X DN15FI	W101301
DN20 X DN20FI	W101303

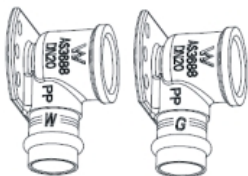
**MALE UNION**



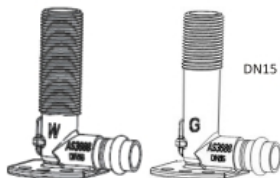
DN15 X DN15BSP MALE	W101405	G101405
DN20 X DN20BSP MALE	W101406	G101406
DN25 X DN25BSP MALE	W101401	G101401
DN32 X DN32BSP MALE	W101402	G101402
DN40 X DN40BSP MALE	W101403	G101403
DN50 X DN50BSP MALE	W101404	G101404

**BACK PLATED FEMALE ELBOW**

SIZE	PART # (WATER)	PART # (GAS)	PART # (SOLAR)
DN15 X DN15FI	W101701	G101701	
DN20 X DN20FI	W101702	G101702	

**BACK PLATED MALE ELBOW**

DN15 X DN15MI X DN75	W101801	G101801
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**SOCKET SPIGOT REDUCER**

DN20 X DN15	W101908	G101908
DN25 X DN15	W101906	G101906
DN25 X DN20	W101907	G101907
DN32 X DN20	W101901	G101901
DN32 X DN25	W101902	G101902
DN40 X DN25	W101905	G101905
DN40 X DN32	W101903	G101903
DN50 X DN32	W101909	G101909
DN50 X DN40	W101904	G101904
DN65 X DN50	W101910	G101910
DN80 X DN50	W101911	G101911
DN80 X DN65	W101912	G101912
DN100 X DN50	W101913	G101913
DN100 X DN65	W101914	G101914
DN100 X DN80	W101915	G101915



### END CAPS



SIZE	PART # (WATER)	PART # (GAS)	PART # (SOLAR)
DN15	W102001	G102001	
DN20	W102002	G102002	
DN25	W102003	G102003	
DN32	W102004	G102004	
DN40	W102005	G102005	
DN50	W102006	G102006	
DN65	W102007	G102007	
DN80	W102008	G102008	
DN100	W102009	G102009	

### PEX PLUS ADAPTOR



DN15	W102401
DN20	W102402

### CRIMP PLUS ADAPTOR



DN15	W102301	G102301
DN20	W102302	G102302
DN25		G102303
DN20 X 25mm crimp		G102304
DN25 X 32mm crimp		G102305



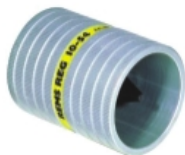
## Ezi Press™ Tools



Rems Mini Press - For Ezi Press sizes DN15 to DN32



Rems Power Press ACC - For Ezi Press DN15 to DN100



Rems Manual Reaming Tool for inner/outer tube deburring

***For alternative tools, see your local Ezi Press™ distributor...or visit [www.ezipress.com.au](http://www.ezipress.com.au)***

### **Disclaimer**

*Information provided in this publication is intended to be of a general nature only and is provided as a guide. Installation requirements may vary across different product applications or in different jurisdictions. Information provided does not in any way override that contained in the relevant Australian Standards for either product or installation practices.*



## 25 YEAR WARRANTY

The **Ezi Press™** system carries a 25 year warranty against defects in materials or manufacturing of fittings produced under the **Ezi Press™** name. This warranty is restricted by the following clauses:

- i. Installation must have been carried out by a licensed plumber / gas fitter.
- ii. Installation must be carried out in full accordance with the **Ezi Press™** installation instructions.
- iii. Installation must be in full accordance with the relevant local and national plumbing codes and standards.

The manufacturer of **Ezi Press™** product supports the warranty on this product and as such may request suitable information or evidence from the installer to support any warranty claim. The manufacturer concerned also reserves the right to engage a nominated outside agent of it's own choice to assess any faulty product before honouring any warranty claim.

**"Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure."**



**WaterMark**  
WMKA23102



Reduce the Stress with  
Ezi Press...

***Ezi Press***

