EZIPRESS™
STAINLESS STEEL SYSTEM



STAINLESS STEEL SYSTEM
TECHNICAL MANUAL

ezipress.com.au

ABOUT EZIPRESS™

EZIPRESS™ is a trusted brand in the plumbing industry, renowned for delivering high-quality press-fit piping solutions designed to meet the demands of modern water, gas, and heating systems.

Offered in both copper and stainless steel systems, **EZIPRESS**™ provides plumbers and contractors with versatile options to suit a wide range of applications. Built on a foundation of innovation, precision engineering, and compliance with stringent industry standards, **EZIPRESS**™ offers a faster, safer, and more reliable alternative to traditional jointing methods.

Its product range combines robust materials with advanced press technology, ensuring leak-free performance, corrosion resistance, and long-term durability. With a focus on ease of installation, reduced downtime, and consistent quality, **EZIPRESS**™ has become a preferred choice for professionals seeking efficiency without compromising safety or performance.

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1.0 Application

EZIPRESS™ Stainless Steel Press-fit system can be used in various plumbing applications due to its flexibility, durability, and resistance to corrosion and freezing.

- Potable Water Systems
- Heating and Cooling Circuits – Hydronic Heating, Chilled water & HVAC
- Compressed Air Systems
- Fire Protection Systems
- Industrial Process Piping – Food processing, Pharmaceuticals & Light Chemical
- Recycled and Rainwater Systems
- Gas Systems - Natural Gas, LPG & Town Gas

EZIPRESS™ Stainless Steel Press-fit System ***must be installed by a qualified tradesperson in accordance with*** **AS/NZS 3500 (Plumbing and Drainage), AS/NZS 5601 (Gas Installations)**, and all other applicable local regulations. The installation instructions, tips, and precautions provided in this technical manual must be strictly followed; failure to do so may result in warranty claims being voided.

1.1 O-ring Chart

Application	Comments	Water (EPDM)	Gas (HNBR)
Gas			
Natural Gas Liquid Gas Propane Butane Methane	The scope of **AS/NZS 5601** limits natural gas and most reticulated gas installations to operating pressures of up to 200 kPa, and LP Gas (LPG) cylinder or tank installations to up to 500 kPa.	**N**	**Y**
Gases			
Compressed Air	Oil cencentration <25mg/m3	**Y**	**Y**
Compressed Air	Oil cencentration >25mg/m3	**N**	**Y**
Natural Gas		**N**	**Y**
Oxygen (Non-medical)		**Y**	**Y**
Nitrogen		**Y**	**Y**
Carbon Dioxide	Dry	**Y**	**Y**
Argon	Welding Use	**Y**	**Y**
Hydrogen		**Y**	**Y**
Vacuum		**Y**	**Y**

Table Legend: **Y** = Yes, **N** = No

Application	Comments	Water (EPDM)	Gas (HNBR)
Fluids/Water			
Hot & Cold Potable Water	Australian WaterMark approved and certified to AS/NZS 4020 for potable (drinking) water applications.	Y	N
Fire Services - Fire Sprinkler & Hose Reel	Capable of handling the required test pressure of 1700kPa or 1.5 times the design pressure as specificed by AS2419.1	Y	N
Rainwater		Y	Y
Pump Circulated Hot Water System		Y	N
Industrial and Process Water		Y	N
Fuel, Oil & Lubricant			
Heating Fuel Oil		N	Y
Diesel Fuel		N	Y
Ethanol		Y	N
Liquid Propane		N	Y
Liquid Butane		N	Y
Lube Oil		N	Y
Oils, Cooling Materials & Lubricants			
Engine Oils and Lubricants (Petroleum-based)		N	Y
Heating Oil, Diesel in acc. With EN590		N	Y

2.0 WaterMark Certification & Product Validation

Pro-Switch
Pro-Switch is a wholly owned Australian company that has been established with a specific intent to assist manufacturers and suppliers meet the requirements and regulations in Australia.
Based in Australia with over 20 years of experience in the certification of products in general and specialising in Plumbing Products.
Pro-Switch has obtained formal accreditation through Joint Accreditation System of Australia and New Zealand (JAS-ANZ) approval for products related to the WaterMark Certification Scheme (WMCS) and a proprietary Product Conformity Scheme (PCS).

2.1 Relevant Standards & Testing Procedures

AS/NZS 4020 – Testing of products for use in contact with drinking water
AS 5200.053 - Plumbing and drainage products. Part 053: Stainless steel pipes and tubes for pressure applications
EN 10088-2 – Stainless steels for general purposes
EN 10312 – Welded stainless steel tubes for the conveyance of water
AS 3688 – Water supply and gas systems – Metallic fittings and end connectors

- Appendix D - Leak tightness under internal pressure test
- Appendix E - strength of fabricated joint – Torque test
- Appendix F – Strength of joint assembly – Pressure cycling test
- Appendix G – Resistance to pull out of assembled joints
- Appendix I – Method for determining leak tightness under internal hydrostatic pressure whilst subjected to bending
- Appendix M – Vacuum test for leak tightness of press fit joints with tube under vacuum
- Appendix N – Leak tightness of gas press fit fittings under internal pneumatic pressure
- Appendix O – Resistance of gas press fittings to temperature cycling
- Appendix P – Resistance of press fitting joints and tubes to vibration
- Appendix Q – Resistance of press fitting joints and tubes to high temperature

AS/NZS 5601.1 – Gas Installations – Part 1: General Installations
AS 1646 – Elastomeric seals for waterworks purposes
EN 549 – Requirements and testing methods for rubber materials used in gas appliances and equipment

2.2 WaterMark Certification

Lead Free

Certificate of Conformity

Pro-Switch Pty Ltd grants to the WaterMark Approved User:

Plumbing Plus Bathroom Kitchen Laundry Pty Ltd

Trading as Plumbing Plus Bathroom Kitchen Laundry Pty Ltd

The right to use the WaterMark as shown above in conjunction with the Certificate No. on product/s as identified in the WaterMark Schedule and as listed on the WaterMark database www.abcb.gov.au/Product-Certification/WaterMark-Certification-Scheme which have been shown to comply with the appropriate Applicable Specification referred to below and as amended from time to time. The WaterMark User is granted a licence to use the WaterMark subject to the rules governing the use of the WaterMark.

Product Type:	Copper/Copper Alloy/Stainless Steel Press Fit Fittings
Product Use:	Water Supply
Brand:	EZIPRESS™
Certification Specification:	AS 3688:2016 Water supply and gas systems—Metallic fittings and end connectors
Conditions or Limitations:	To be installed in accordance with Plumbing Code of Australia (PCA)

Issue Date: 6th August 2026
Initial Issue Date: 15th December 2011
Expiry Date: 14th December 2027

Simon Clarke
General Manager

Certificate No.: 23102

This Certificate is issued by a JAS-ANZ accredited certification body. The ABCB and JAS-ANZ do not in any way warrant, guarantee or represent that the product the subject of this Certificate conforms to the WaterMark Certification Scheme Rules, nor accepts any liability arising out of the use of the product. The ABCB disclaims to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this Certificate. The WaterMark Certification Scheme is a conformity assessment scheme based on ISO/IEC 17067. This Certificate may only be reproduced in its entirety.

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Certificate Number: 23102
Issue Date: 06/08/2026
Revision: CR17

Page **1** of **15**

Pro-Switch Pty Ltd

WaterMark

Certificate of Conformity

Pro-Switch Pty Ltd grants to the WaterMark Approved User:

Plumbing Plus Bathroom Kitchen Laundry Pty Ltd

Trading as Plumbing Plus Bathroom Kitchen Laundry Pty Ltd

the right to use the WaterMark as shown above in conjunction with the Certificate No. on product/s as identified in the WaterMark Schedule and as listed on the WaterMark database www.abcb.gov.au/Product-Certification/WaterMark-Certification-Scheme which have been shown to comply with the appropriate Applicable Specification referred to below and as amended from time to time. The WaterMark User is granted a licence to use the WaterMark subject to the rules governing the use of the WaterMark.

Product Type:	Stainless Steel Tubes
Product Use:	Water and Gas Supply
Brand:	EZIPRESS™
Certification Specification:	AS 5200.053:2008 Plumbing and drainage products - Stainless steel pipes and tubes for pressure applications
Conditions or Limitations:	To be installed in accordance with Plumbing Code of Australia (PCA)

Issue Date:	3rd August 2026
Initial Issue Date:	26th September 2025
Expiry Date:	26th September 2030

Simon Clarke
General Manager

Certificate No.: 23522

This Certificate is issued by a JAS-ANZ accredited certification body. The ABCB and JAS-ANZ do not in any way warrant, guarantee or represent that the product the subject of this Certificate conforms to the WaterMark Certification Scheme Rules, nor accepts any liability arising out of the use of the product. The ABCB disclaims to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this Certificate. The WaterMark Certification Scheme is a conformity assessment scheme based on ISO/IEC 17067. This Certificate may only be reproduced in its entirety.

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Revision: CR01

Pro-Switch Pty Ltd

3.0 Product Specification

The EZIPRESS™ Stainless Steel Press-fit System, including pipes, press fittings, and factory-installed sealing elements, is fully compliant with the lead-free requirements of the Plumbing Code of Australia (PCA) and the WaterMark Certification Scheme for potable water installations.

This product complies with the requirements of Lead-Free standards as defined in the National Construction Code Volume 3 and is suitable for use as part of Lead-Free installation.

3.1 Operating Parameters/Design Parameters

EZIPRESS™ Stainless Steel Press-fit System is supplied in both with factory-fitted EPDM (Ethylene Propylene Diene Monomer) and HNBR (Hydrogenated Nitrile Butadiene Rubber) O-rings as standard.

EPDM O-Rings Standard Operating Parameters
The EPDM O-Rings are specifically designed and certified for use in potable water, heating water, and cooling systems.
Operating Temperature Range: –20 °C to +110 °C
Maximum Operating Pressures (When installed per this manual and using compatible stainless-steel tube & tools): up to 1,600 kPa
Pressure ratings are based on water or glycol-based media. For other fluids, always confirm chemical compatibility prior to installation. (Refer to section 1.1 O-ring Chart)

General Applications
- Hot and cold potable water
- Hydronic heating systems
- Chilled water circuits
- Glycol blends up to 50% concentration

Not Suitable For
- Steam services
- Hydrocarbon-based fuels and oils
- High-chlorine or aggressive chemical environments

Important Notes
- Continuous operation above +85 °C will reduce the long-term service life of EPDM O-rings.
- Exceeding published temperature or pressure ratings without written approval from Plumbing Plus will void all product warranties and WaterMark certifications.
- If the system will undergo disinfection or chemical dosing (e.g., sodium hypochlorite), ensure that procedures comply with manufacturer guidance and AS/NZS 3500.5; prolonged exposure to chlorine can accelerate O-ring degradation.

For applications requiring operating pressures above the standard ratings, up to a maximum of 40 bar, written approval must be obtained from Plumbing Plus prior to system design, procurement, or installation.

Approval requests must include, at a minimum:
- Intended operating pressure and temperature
- Pipe size(s) and layout details
- Intended medium (e.g., water, glycol, gas, oil, etc.)
- Duty cycle and expected peak loads

HNBR O-Rings
The HNBR O-rings are specifically designed and certified for use involving natural gas, LPG, compressed air, and selected hydrocarbons
Operating Temperature: –20 °C to +70 °C
Maximum Operating Pressures (When installed per this manual and using compatible stainless-steel tube & tools): up to 1,600 kPa

For natural gas and LPG installations in Australia and New Zealand, the maximum allowable working pressure is determined by **AS/NZS 5601** and local regulatory approvals:
- Natural gas residential & commercial reticulation: ≤7 kPa
- LPG vapor systems: typically ≤14 kPa (check appliance specifications)

General Applications
- Natural gas and LPG reticulation systems
- Oil-free compressed air systems
- Certain hydrocarbon-based fluids (confirm compatibility prior to installation)

Not Suitable For
- Potable water and heating water systems
- Glycol-based circuits
- High-chlorine or aggressive chemical environments
- Steam or superheated water

Important Notes
- HNBR O-rings are not recommended for continuous exposure above +70 °C.
- Use of HNBR O-rings in potable water systems is not permitted due to material compatibility and regulatory restrictions.
- Exceeding the published temperature or pressure ratings without prior written approval from Plumbing Plus will void all warranties and certifications.
- For compressed air systems containing oil aerosols, confirm compatibility before installation to avoid premature O-ring degradation. (Refer to section 1.1 O-ring Chart)

3.2 Material Specifications

All EZIPRESS™ Stainless Steel pipes and fittings are manufactured from AISI 316L austenitic stainless steel (UNS S31603 / EN 1.4404).

316L stainless steel is selected for its combination of corrosion resistance, mechanical strength, durability and long-term reliability in plumbing and piping applications. The addition of molybdenum provides improved resistance to pitting and crevice corrosion, particularly in environments containing chlorides, compared with lower-alloyed stainless steels such as 304/304L.

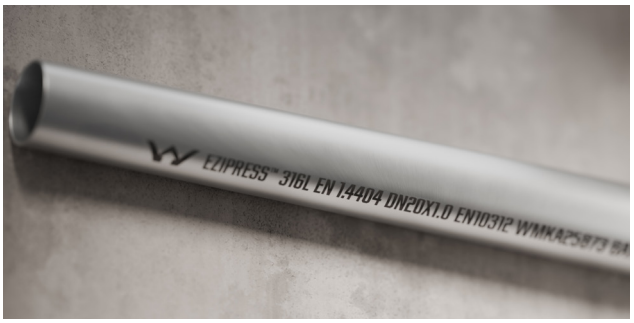
The low-carbon (“L”) composition limits carbon content to a maximum of 0.03%, reducing the risk of chromium carbide precipitation and associated intergranular corrosion in heat-affected areas during welding and manufacturing.

Material Grade: AISI 316L (UNS S31603) / EN 1.4404 (per EN 10088-2)
Material Type: Austenitic stainless steel with molybdenum alloying for enhanced resistance against pitting and crevice corrosion.
Corrosion Resistance: Enhanced resistance to general corrosion, pitting and crevice corrosion
Molybdenum Alloying: Typically 2–3% Mo for improved resistance in chloride-containing environments
Low Carbon Content: ≤0.03%, improving resistance to sensitisation following welding
Hygienic Properties: Smooth, non-porous surface suitable for potable-water applications when used within the system’s approved operating conditions
Durability: High mechanical strength and resistance to degradation over extended service life
Vickers hardness: 170–200 HV

3.3 Pipe Design

All EZIPRESS™ Stainless-Steel pipes are manufactured using a controlled, high-quality production process to ensure strength, durability, and reliability. Premium AISI 316L / EN 1.4404 stainless-steel coils are carefully selected and inspected before production. The steel strip is formed into a round tube and welded using advanced Tungsten Inert Gas (TIG) welding technology to create a strong and precise seam. The pipes undergo heat treatment (solution annealing) to improve corrosion resistance and mechanical performance. After welding, the pipes are pickled and passivated to clean the surface and restore a protective chromium-rich layer. They are then precisely sized, calibrated, and straightened to achieve exact dimensions, ensuring a perfect fit with EZIPRESS™ M-profile press fittings. Every pipe is tested using Eddy Current Testing (ECT) methods to verify weld integrity and ensure product quality. Finally, each pipe is laser-marked with the material grade, size, manufacturing standard, WaterMark licence number, batch code, and manufacturing date providing full product traceability.





Flow Rate Chart

A summary of the nominal size, diameter, thickness, internal, max velocity & flow rate.

Nominal Size	Outer Diameter (mm)	Wall Thickness (mm)	Internal Diameter (mm)	Max Recommended Velocity (m/s)	Approx. Flow Rate (L/min)
DN15	15.0	1.0	13.0	2.0	16L/min
DN22	22.0	1.2	19.6	2.0	36L/min
DN28	28.0	1.2	25.6	2.0	62L/min
DN35	35.0	1.5	32.0	2.0	97L/min
DN42	42.0	1.5	39.0	2.0	143L/min
DN54	54.0	1.5	51.0	2.0	244L/min
DN76.1	76.1	2.0	72.1	2.0	488L/min
DN108	108.0	2.0	104.0	2.0	1020L/min
DN168.3	168.3	2.0	164.3	2.0	2544L/min

Pipe Dimension Table
A summary table of the dimensions from DN15 to DN168.3

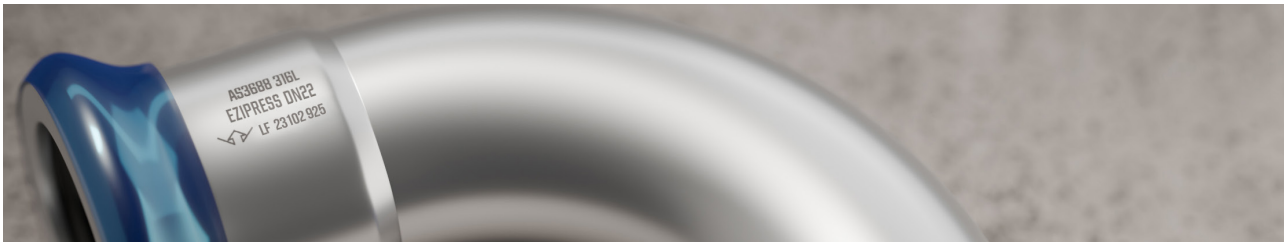
Nominal Size	Outer Diameter	Outer Diameter Tolerance (mm) Per EN 10312	Wall Thickness(mm)	Wall Thickness Tolerance (mm) Per EN 10312
DN15	15.0	±0.10	1.0	±0.10
DN22	22.0	±0.11	1.2	±0.10
DN28	28.0	±0.14	1.2	±0.10
DN35	35.0	±0.18	1.5	±0.10
DN42	42.0	±0.21	1.5	±0.10
DN54	54.0	±0.27	1.5	±0.10
DN76.1	76.1	±0.38	2.0	±0.15
DN108	108.0	±0.54	2.0	±0.15
DN168.3	168.3	±1.0	2.0	±0.30

3.4 Fitting Design

The EZIPRESS™ Stainless-Steel Press M-profile fittings are engineered using AISI 316L/ EN 1.4404 stainless steel, selected for its superior corrosion resistance and mechanical strength. Each fitting body is manufactured through deep-drawing or precision forging, followed by CNC machining to ensure dimensional accuracy. A bright-annealed or pickled and passivated surface finish provides additional protection against corrosion, while each fitting is laser-etched with essential identification details including size, standard code, Watermark certification number, and batch code for complete traceability.

Within the fitting, the elastomer O-ring is seated in a specially designed deep groove that prevents displacement during insertion and pressing. The standard black EPDM O-rings are suitable for potable water, heating, and chilled-water applications. For gas installations, yellow HNBR O-rings are used in compliance with **AS/NZS 5601**. All O-rings are pre-lubricated during manufacturing using AS/NZS 4020 drinking water standard approved compounds, and the use of non-approved lubricants, oils, or jointing compounds is strictly prohibited to maintain system performance.

This refined design delivers consistent sealing integrity, mechanical strength, and system reliability while simplifying installation, inspection, and maintenance requirements.



M-Profile Press
The M-profile geometry is engineered to create multi-lobe deformation when the fitting is pressed. As the press jaws compress the fitting, its internal contour forms the characteristic M-shaped lobes, producing a strong mechanical interlock between the tube and the fitting body. This design delivers a dual-seal system consisting of a primary elastomeric O-ring seal and a secondary metal-to-metal contact seal, providing enhanced reliability and long-term security

The key advantage of M-Profile Stainless Steel Press Fittings is their compatibility with Novopress high-pressure (HP) sling tools, which enable the fittings to be pressed with greater and more uniform radial force. This advanced pressing method allows the system to achieve and sustain higher operating pressures compared to installations completed using standard press tools.



M-PROFILE PRESS ANALYSIS
During the M-profile press process, the jaws deform the fitting's press groove, compressing the elastomeric seal and forcing the pipe and fitting into firm metal-to-metal contact. This dual sealing mechanism enhances joint security, leak resistance, and long-term reliability

Leak-Before-Press (LBP) | Primary Press-Confirmation Design
A critical feature of this system is the Leak-Before-Press (LBP) function on black EPDM O-rings. Micro-grooves integrated into the sealing interface allow controlled leakage during initial pressure testing if a fitting has not been pressed, making it immediately detectable and ensuring installation integrity.

The recommended test pressure for verifying the LBP function is 200–500 kPa (0.2–0.5 MPa).

Applicable only to DN15 to DN54 Water Fittings



Coloured Indicator Ring | Secondary Press-Confirmation Design
EZIPRESS™ Stainless-Steel Press Fit fittings are supplied with a coloured indicator ring, blue for water, yellow for gas. The indicator serves as a visual "unpressed" marker. The indicator ring detaches and falls away upon installation, confirming that the joint has been pressed.



Threads Specification
- Male External Threads for adaptor type fitting – Meets ISO 7.1 Tapered Sealing Threads Requirements
- Male External Threads for #19BP Elbow (Lugged Elbow) – Meets AS 1722.2/ISO 228.1 Parallel Fastening Threads Requirements
- All Female Internal Threads – Meets AS 1722.2/ISO 228.1 Parallel Fastening Threads Requirements

4.0 Installation Tips and Precautions

4.1 Pipe Cutting & Preparation

Stainless-steel tubes should always be cut square using a fine-tooth pipe cutter or rotary wheel cutter. Avoid abrasive discs, as excessive heat can harden the tube edges and damage O-rings during insertion. After cutting, thoroughly deburr both the internal and external edges to remove any sharp burrs or metal chips that could compromise sealing performance or damage the elastomer. Clean the tube end using a lint-free cloth to remove dust, oil, and particles before assembling the joint. Contaminants on the sealing surface can cause incomplete seating and early leakage.

4.2 O-Ring Handling & Inspection

Before insertion, inspect the fitting and its O-ring carefully. Ensure the elastomer is seated correctly in the groove, free of cuts, twisting, deformation, or contamination. Do not use lubricants, sealants, greases, or jointing compounds unless specifically approved by the manufacturer. If the O-ring has been removed or contaminated, replace it with a genuine spare.

4.3 Correct Pipe Insertion Depth

Mark the insertion depth on the tube before assembly. Incomplete insertion is one of the primary causes of leaks under pressure testing. When pushing the tube into the fitting, ensure it is fully seated to the marked depth without twisting the O-ring. Installer should rotate the tube slightly as it enters the fitting to evenly distribute contact pressure around the O-ring, ensuring a smooth and secure seal.

4.4 Mixed-Material Connections

In plumbing and mechanical service installations, EZIPRESS™ Stainless Steel Press-fit system fittings are frequently connected to other piping materials, including copper, carbon steel, PEX, brass, and plastic composite systems. When making these transitions, installers must follow methods specified in this technical manual to ensure system integrity. Incorrect connection practices can lead to galvanic corrosion, joint leakage, and reduced pressure ratings, compromising both performance and compliance. Always use certified transition fittings and follow the recommended installation procedures to maintain the reliability and durability of the system.

4.4.1 Copper & Copper-Alloy (Brass)

Stainless-steel pipes may be connected to copper and copper-alloy (brass) pipes or fittings only when using manufacturer-approved transition fittings designed for mixed-metal applications. To minimise the risk of galvanic corrosion, a dielectric union or other approved isolation method should be installed at the transition point to prevent direct contact between stainless steel and copper or brass components. All installations must comply with AS/NZS 3500 to ensure correct mixed-metal compatibility and long-term system performance.

4.4.2 PEX, PEX-AL-PEX & Multilayer Composite Pipes

When connecting stainless steel pipes to PEX or composite pipes, always use the approved Stainless Steel Press-to-PEX adaptors specified in this technical manual. Exercise caution during system disinfection, as PEX pipes are generally more sensitive to elevated chlorine concentrations compared to stainless steel. To ensure compliance and maintain product warranty, always refer to the PEX manufacturer's technical manual for disinfection guidelines and limitations.

4.4.3 Carbon Steel & Galvanised Pipes

When connecting stainless-steel pipes to carbon steel or galvanised steel pipes, galvanic corrosion must be carefully managed. It is strongly recommended to use dielectric adapters or insulating joints when transitioning between stainless steel and ferrous metals, particularly in hot water systems or closed-loop heating applications. Failure to properly isolate these materials can significantly accelerate the corrosion of the less noble metal, typically carbon steel, and substantially reduce the overall service life of the system.

4.5 Underground Installations - Bedding and Backfill

Stainless steel pipework and fittings installed below ground shall be installed in accordance with the requirements of AS/NZS 3500.1:2025. Pipework shall be surrounded by a minimum of 75 mm of compacted sand or fine-grained soil that does not contain material that may damage or adversely affect the pipework. Excavated soil may be reused for bedding and backfill where it is compatible with stainless steel and is free from rocks, rubble, sharp objects or other material that may cause mechanical damage to the pipework. The required depth of cover and protection against mechanical loading shall comply with the applicable requirements of AS/NZS 3500.1.

4.6 Underground Installations - Corrosion Protection

Where stainless steel pipework or fittings are installed underground in corrosive, contaminated or otherwise aggressive environments, suitable corrosion protection shall be provided in accordance with AS/NZS 3500.1:2025 Clause 5.13. Suitable protection may include an impermeable flexible plastic coating, sealed polyethylene sleeving, or continuous petrolatum wrapping, as applicable to the installation conditions. Particular consideration shall be given to soil conditions containing elevated chlorides, acid sulfate soils, ammonia-producing materials or other substances capable of adversely affecting metallic pipework. Any protective system shall be applied continuously and maintained over the pipe, fittings and joints so that the metallic surface is isolated from the surrounding corrosive environment.

4.7 Dissimilar Metallic Connections Below Ground

Where dissimilar ferrous and non-ferrous metallic pipes or fittings are connected below ground, protection against galvanic corrosion shall be provided in accordance with AS/NZS 3500.1:2025 Clause 5.6.11. For threaded connections, electrical separation shall be provided by an appropriate plastic connector or short section of plastic pipe. For flanged connections, electrical isolation shall be provided using an insulating gasket, insulating bolt sleeves and insulating washers beneath the bolt head and nut, preventing direct electrical contact between the dissimilar metals. Where the completed joint is installed in a corrosive environment, the assembly shall also be provided with the applicable external corrosion protection required by Clause 5.13.

4.8 Minimum Clearances Between Pressed Joints & Bends

Correct spacing between pressed joints is essential to ensure proper deformation of the fitting sleeve, maintain seal integrity, and avoid structural stress on the tube and O-ring. Inadequate clearances can cause incomplete pressing, material distortion, or premature leakage. The following minimum distances must be observed in all installations to ensure reliable system performance.

Nominal Size (DN)	Between Presses (mm)	Press To Bend (mm)	Between Presses - HP Slings (mm)
DN15	20	30	40
DN22	20	30	40
DN28	30	45	60
DN35	40	60	80
DN42	50	75	100
DN54	60	90	120
DN76.1	60	90	120
DN108	60	90	120
DN168.3	60	90	120

4.9 Minimum Clearances Between Pressed Joints & Welded Joints

Nominal Size (DN)	Between Existing Welded Fitting (mm)	New Welded Joint (mm)
DN15	20	350
DN22	20	350
DN28	30	350
DN35	40	350
DN42	50	350
DN54	60	350
DN76.1	60	500
DN108	60	500

Notes

- **Complete Welding First:** Where possible, finish all welding on the pipe section before installing any press-fit fittings to avoid heat damage to O-rings.
- **Use Protective Barriers for New Welds:** If maintaining the recommended distance from the fitting is not possible, install heat shields or thermal barriers to protect the O-rings from heat transfer.
- **Apply Heat Barriers When Welding After Pressing:** When welding must be performed after press-fit joints are installed, use heat-blocking sleeves or thermal blankets between the weld and the nearest fitting.
- **Allow for Cool Down:** After welding, ensure the pipe cools to ambient temperature before proceeding with the installation of any press-fit fittings.

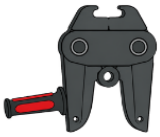
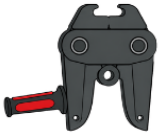
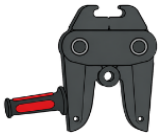
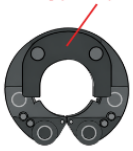
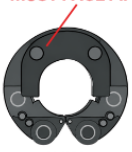
4.10 Approved Press Tool Selection & Calibration

Correct tool selection and regular calibration are critical to ensure that EZIPRESS™ Stainless Steel Press-fit system fittings are properly installed, the O-ring seal is correctly compressed, and the joint integrity complies with AS 3688 and relevant standard requirements. Using non-approved or out-of-calibration tools may result in incomplete pressing, leaks, or voided warranty coverage.

4.10.1 Novopress - Pressure Rating Chart

<table>
<tr><th>Nominal Size</th><th>Standard M-Jaw/Sling</th><th>High Pressure (HP) Slings</th></tr>
<tr><td>DN15</td><td rowspan="2">Max. 4,000kPa</td><td rowspan="2">N/A</td></tr>
<tr><td>DN22</td></tr>
<tr><td>DN28</td><td rowspan="2">Max. 2,500kPa</td><td rowspan="4">Max. 4,000kPa</td></tr>
<tr><td>DN35</td></tr>
<tr><td>DN42</td><td rowspan="4">Max. 1,600kPa</td></tr>
<tr><td>DN54</td></tr>
<tr><td>DN76.1</td><td rowspan="2">Max. 2,500kPa</td></tr>
<tr><td>DN108</td></tr>
</table>

4.10.2 Novopress - Tooling Chart

TOOL / PROFILE	STANDARD M	ADAPTOR JAW	HP SLING	ADAPTOR JAW
 ACO153	 JAW 15 22 28 35	—	—	—
 ACO203	 JAW 15 22 28 35	—	 28 35 SLING PLATE MUST FACE PIPE	 ADAPTOR JAW ZB203
	 42 54	 ADAPTOR JAW ZB203	 SLING 42 54	 ADAPTOR JAW ZB203
 ACO203XL	 JAW 15 22 28 35	—	 28 35 SLING PLATE MUST FACE PIPE	 ADAPTOR JAW ZB203
	 42 54	 ADAPTOR JAW ZB203	 SLING 42 54	 ADAPTOR JAW ZB203
	SLING PLATE MUST FACE PIPE  SLING 76.1	 ADAPTOR JAW ZB221		
	SLING PLATE MUST FACE PIPE  SLING 108	 ADAPTOR JAW ZB221 + ADAPTOR JAW ZB222 DN108 ONLY: REQUIRES PRESSING TWICE.		
 ACO403	—	—	 SLING PLATE MUST FACE PIPE SLING 76.1 108	—

4.10.3 REMS - Pressure Rating & Tooling

Mini-Press
- DN15 - DN22 - DN28 - DN35

Akku-Press
- DN15 - DN22 - DN28 - DN35 - DN42 - DN54

Akku-Press XL
- DN76.1 - DN108

***Max. Pressure Rating 1,600kPa**

4.10.4 Press Tools - Recommended Best Practices

Calibration & Servicing
- All press tools must undergo calibration and preventive maintenance at the intervals specified by the tool manufacturer. Proper calibration ensures the tool consistently applies the correct pressing force required for full sleeve deformation and system compliance.

Inspection of Tooling Components
- Before each use, visually inspect press jaws, rings, and sling collars for cracks, wear, deformation, or signs of fatigue. Any damage to these components can result in incomplete profile formation or loss of joint integrity.

Replacement of Worn Components
- Replace any worn or defective tooling components immediately. Continued use of compromised jaws, rings, or slings can lead to insufficient radial compression, improper O-ring seating, and potential leakage under pressure.

Correct Positioning
- Always verify that press jaws, rings, or sling collars are fully seated on the designated press sleeve profile before tool activation. Misalignment can result in uneven deformation, leading to compromised mechanical strength and sealing performance.

Full Press Cycle Completion
- Allow the press tool to complete its programmed cycle without interruption. Partial pressing or repeated re-pressing of the same fitting can overstress the stainless-steel sleeve, distort the O-ring groove, and void manufacturer warranty.

Tool Storage & Contamination Prevention
- Store all press tools, jaws, rings, and sling collars in a clean, dry, and protected case when not in use. Prevent exposure to debris, dust, moisture, and corrosive substances, as contamination of tooling surfaces can transfer to fittings and compromise the integrity of the sealing interface.

4.11 Chlorination & Chemical Exposure Precautions

EZIPRESS™ Stainless Steel 316L Press-Fit System provides excellent corrosion resistance; however, exposure to certain chemicals can significantly affect system integrity. Disinfection and chemical cleaning procedures must be carried out with caution and in strict accordance with manufacturer guidelines.

Where possible, it is recommended to use hydrogen peroxide-based disinfection methods, as they are less aggressive towards stainless steel surfaces. Sodium hypochlorite (hypochlorite-based disinfection) is not permitted due to the high risk of pitting corrosion and O-ring degradation

Controlled chlorine-based disinfection may be performed under the following limits:
- **Maximum chlorine concentration:** ≤ 20 mg/L (free chlorine)
- **Maximum exposure duration:** ≤ 24 hours
- **Mandatory procedure:** Immediately flush the system thoroughly with clean potable water after disinfection and ensure complete draining, rinsing, and drying of the pipework to prevent residual chlorine exposure.

Failure to adhere to these limits may result in pitting corrosion, loss of sealing performance, and voiding manufacturer's warranty.

4.12 Pipe Alignment, Support & Thermal Expansion

Pipes must be accurately aligned and adequately supported to prevent mechanical stress on press-fit joints. Improper alignment can result in uneven loading on the fitting, while excessive bending forces, vibration, or torsional stresses may lead to long-term damage or premature joint failure.

Stainless-steel piping systems naturally expand and contract with temperature fluctuations. Expansion offsets, flexible compensators, or correctly positioned fixed points must be incorporated where required to accommodate thermal movement and prevent stress transfer to the fittings.

Support clips or brackets must never be installed directly onto press fittings. Clamping or loading fittings can deform the press sleeve, compromise the sealing interface, and void the manufacturer's warranty. Always secure the pipe at recommended support intervals on straight pipe sections, ensuring load transfer occurs through the pipe—not the fitting.

Nominal Size (DN)	Supporting Spacing (m)
DN15	1.5m
DN22	1.5m
DN28	2.0m
DN35	2.5m
DN42	2.5m
DN54	3.0m
DN76.1	3.0m
DN108	3.0m
DN168.3	3.0m

4.13 Approved & Prohibited O-ring Lubricants

EZIPRESS™ Stainless-Steel Press-Fit System is equipped with factory-fitted O-rings designed for reliable, long-term sealing. In most cases, fittings are supplied pre-lubricated and additional lubrication is not required. However, when installation conditions require lubrication—such as during cold-weather installation, tight bends, or large-diameter assemblies—only manufacturer-approved lubricants must be used.

Approved Lubricants List

Lubricant Name	Manufacturer	Base Type	Watermark Approved
Kluber Unisilkon L250L	Kluber Lubricant	Silicone-based	**Y**
Dow Corning 111	Dow	Silicone-based	**Y**
Molykote 111	DuPont	Silicone-based	**Y**
OKS 1110	OKS	Silicone-based	**Y**

Prohibited Lubricants

The following must not be used under any circumstances:

- Petroleum-based lubricants (e.g., Vaseline®, mineral oils, greases)
- Hydrocarbon-based lubricants (solvents, oils, synthetic compounds not tested for EPDM/HNBR)
- Spray-on lubricants, detergents, or dishwashing liquids
- Chlorine-based products or disinfectants

Using prohibited lubricants can cause O-ring swelling, hardening, or chemical degradation, leading to joint failure and voiding the manufacturer's warranty.

4.14 Pipe Bending

EZIPRESS™ Stainless Steel 316L tube in sizes DN15, DN22 and DN28 may be cold bent using suitable commercial tube-bending equipment designed for stainless steel tube. The minimum bend radius shall be 3.5 times the outside diameter of the tube, measured to the centreline of the bend. Bending shall be performed cold only. The tube shall not be heated or flame-heated to facilitate bending. After bending, the tube shall maintain a smooth and uniform profile without kinking, cracking, excessive flattening or other deformation that may adversely affect the integrity of the tube. Tube sizes DN35 and above shall not be bent.

5.0 Installation Instructions

EZIPRESS™ Stainless-Steel Press-Fit System has been designed to provide a reliable, high-performance jointing solution. Correct installation is essential to ensure system integrity, leak-free performance, and compliance with AS/NZS standards.

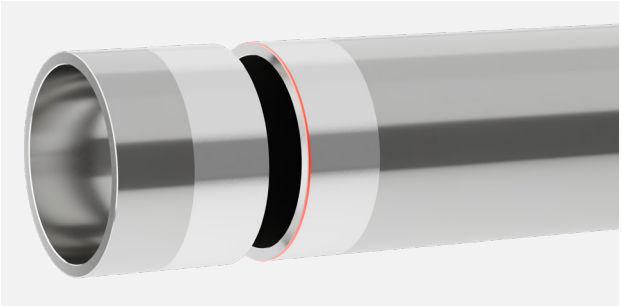
1. Pre-Installation Checks

Before starting any installation:

- Verify that the pipe material, fitting size, and O-ring type are correct for the intended application.
- Ensure all fittings are free from damage, dents, deformation, or contamination.
- Confirm that press tools, jaws, collars, and slings are manufacturer-approved and calibrated (refer to Section 4.7).
- Check ambient and pipe conditions — do not install when pipes are frozen, excessively hot, or under pressure.

2. Cut Stainless Steel Pipe

Cut the steel pipe 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.

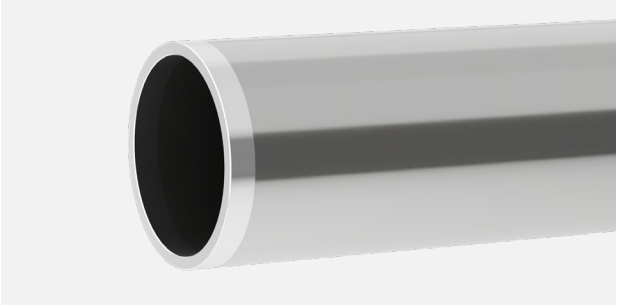


- Use a fine-tooth pipe cutter or rotary wheel cutter suitable for stainless steel.
- Do not use abrasive discs, as heat can harden edges and damage O-rings.

Failure to do so will result in a poor press.

3. Deburr Stainless Steel Pipe

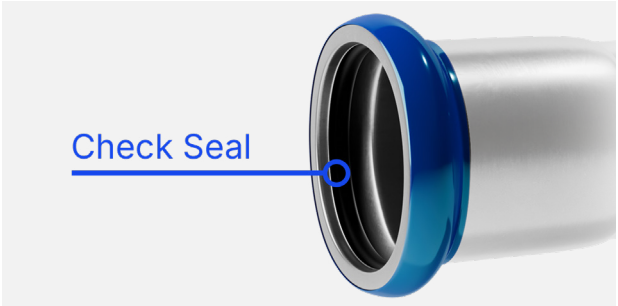
Ensure you deburr both the inside and outside of the steel tube prior to insertion of EZIPRESS Stainless Steel fittings.



- Deburr both inside and outside edges thoroughly using a deburring tool.
- Remove all swarf, dirt, oil, or residue using a clean, lint-free cloth.

4. Check The Seal

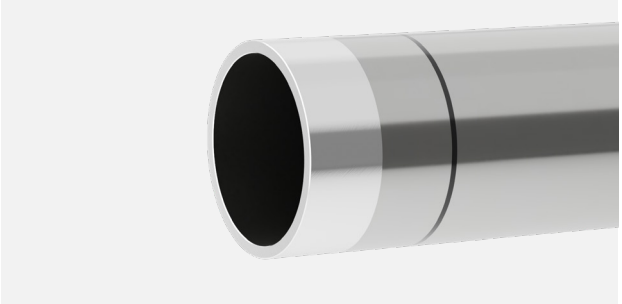
Check the seal and insure it is clean, sufficiently lubricated & correctly seated.



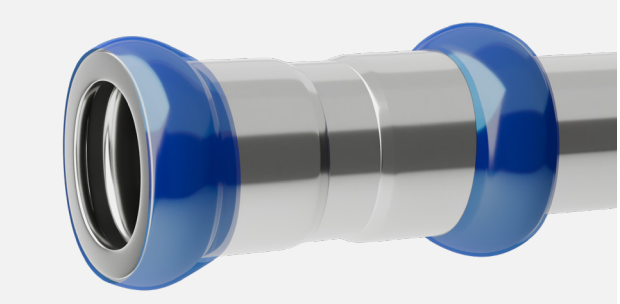
- Inspect the O-ring in each fitting for damage, displacement, or contamination.
- Ensure the O-ring is seated evenly in its groove.
- Use only manufacturer-approved lubricants if necessary; unapproved greases or jointing compounds are strictly prohibited.
- Replace damaged or contaminated O-rings with genuine EZIPRESS™ components.

5. Mark Insertion Depth
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.

Use an insertion gauge to ensure the pipe is fully seated and prevents under-insertion. One of the leading causes of leakage.



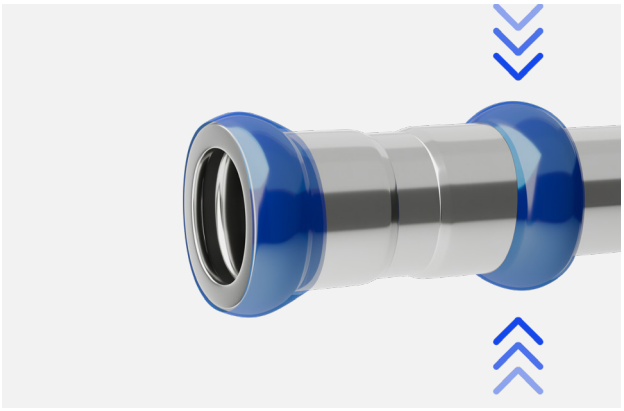
6. Assembling the Joint
Insert the pipe straight into the fitting until it reaches the insertion mark.



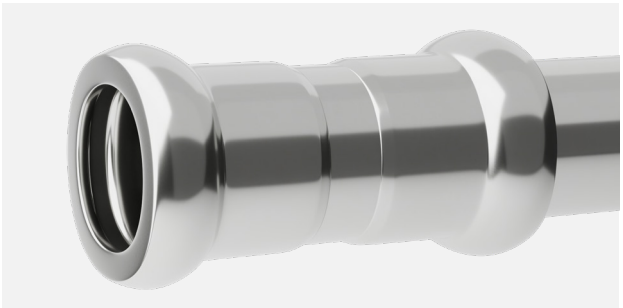
7. Press Fitting
Ensure the appropiate sized jaws are fitted. Position press jaws over the fitting ensuring that the raised ring of the fitting is located within the groove of the press jaws (The blue ring). Press Jaws must be positioned at right-angle to the joint to ensure even pressing pressure is applied.

Depress tool trigger until pressing operation is completed fully. Also, refer to manufacturer's instructions for specific details on the operation of their tool.

- Place the press jaws, ring, or sling collar squarely around the fitting sleeve.
- Ensure the tool is fully seated and correctly aligned.
- Activate the press tool and allow the cycle to complete fully.
- Do not interrupt, partial-press, or re-press the same fitting.



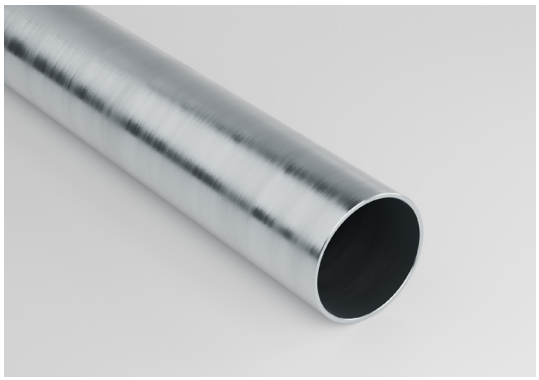
8. Peel Off Coloured Press Indicator Ring
If part of the press indicator ring remains in place after the pressing operation is completed it should be removed by hand.



9. Pressure Testing
- Confirm that all joints are pressed and properly inspected.
- Ensure all pipework is complete and that fittings, valves, and end caps are securely installed.
- Disconnect or isolate all components not designed to withstand the full test pressure (e.g., flexible connectors, appliances, or valves with low-pressure ratings).
- Initiate pressure test procedures in accordance with **AS/NZS 3500** & **AS/NZS 5601**

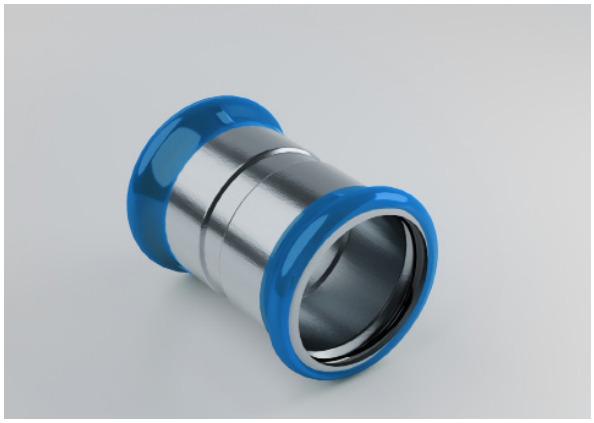
6.0 Product Range

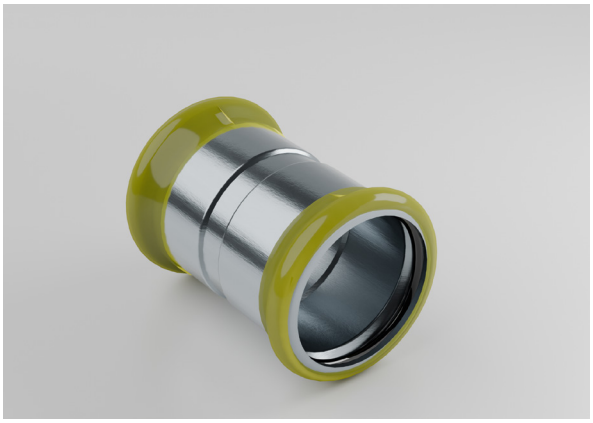
6.1 Pipes



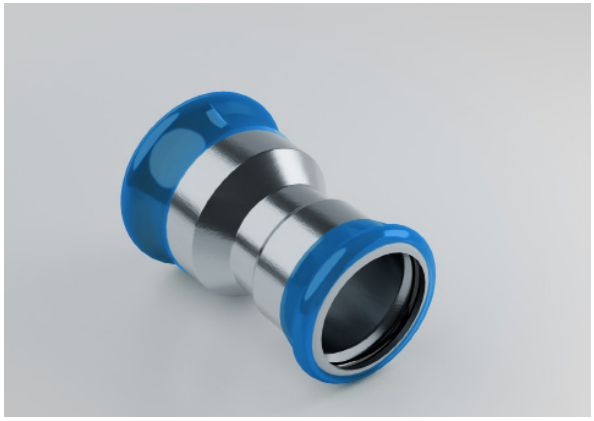
Product Description	Size	Part #
316L Stainless Steel Tube (6 Metre Lengths)	DN15	AP.316L-015
	DN22	AP.316L-022
	DN28	AP.316L-028
	DN35	AP.316L-035
	DN42	AP.316L-042
	DN54	AP.316L-054
	DN76.1	AP.316L-076
	DN108	AP.316L-108

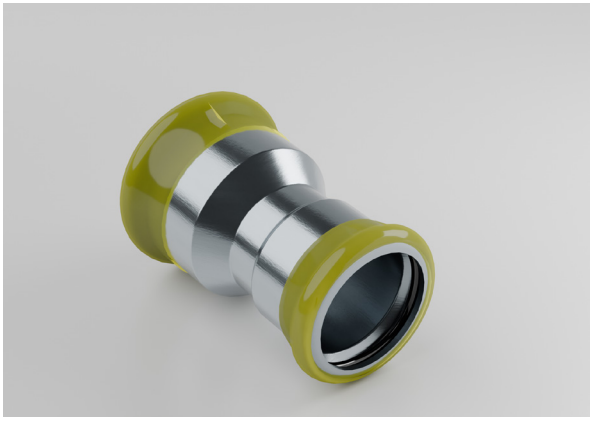
6.2 Fittings (Water, Gas)



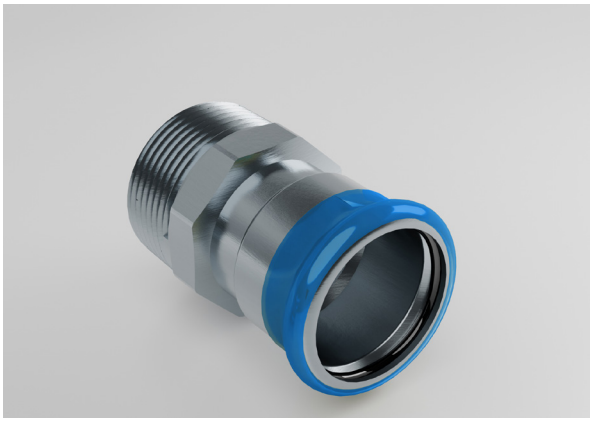


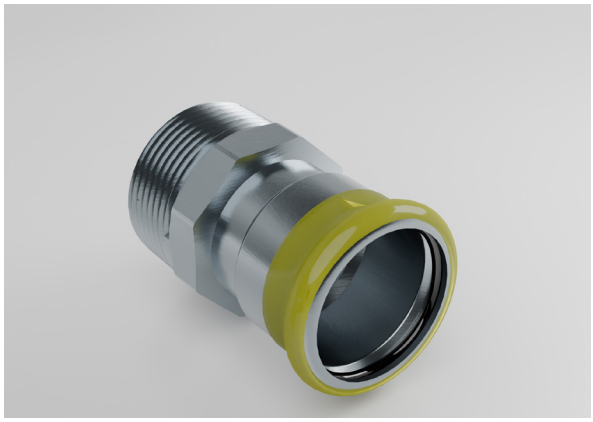
Product Description	Size	Water #	Gas #
#1 Straight Coupling	DN15	W200101	G200101
	DN22	W200102	G200102
	DN28	W200103	G200103
	DN35	W200104	G200104
	DN42	W200105	G200105
	DN54	W200106	G200106
	DN76.1	W200107	G200107
	DN108	W200108	G200108



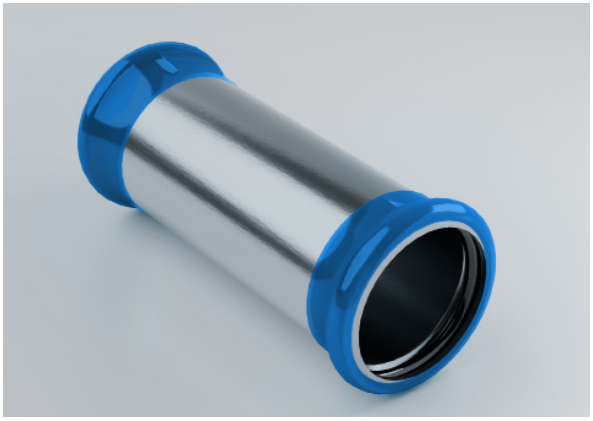


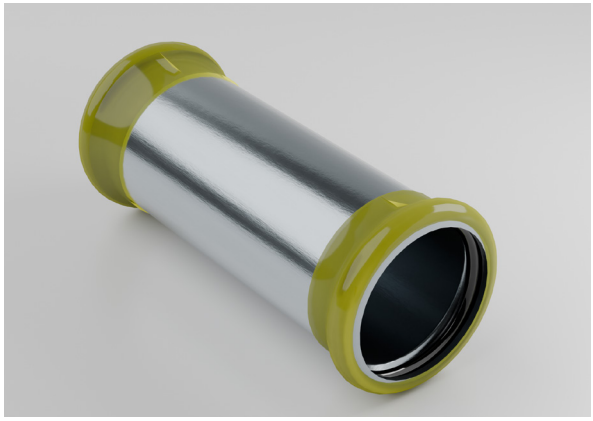
Product Description	Size	Water #	Gas #
#1R Reducing Coupling Socket x Socket	DN22 x DN15	W200201	G200201
	DN28 x DN15	W200202	G200202
	DN28 x DN22	W200203	G200203
	DN35 x DN22	W200204	G200204
	DN35 x DN28	W200205	G200205
	DN42 x DN22	W200206	G200206
	DN42 x DN28	W200207	G200207
	DN42 x DN35	W200208	G200208
	DN54 x DN28	W200209	G200209
	DN54 x DN35	W200210	G200210
	DN54 x DN42	W200211	G200211
	DN76.1 x DN54	W200212	G200212
	DN108 x DN54	W200213	G200213
	DN108 x DN76.1	W200214	G200214



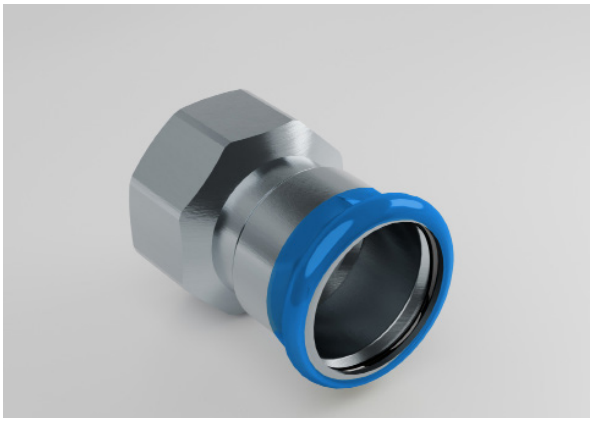


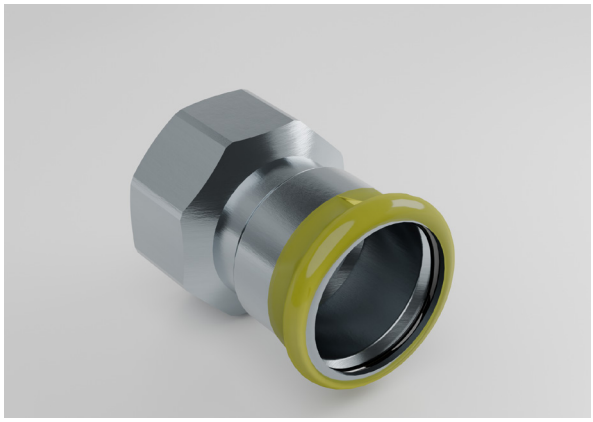
Product Description	Size	Water #	Gas #
#3 Male Adaptor	DN15 × 1/2″	W200401	G200401
	DN22 × 3/4″	W200402	G200402
	DN28 × 1″	W200403	G200403
	DN35 × 1 1/4″	W200404	G200404
	DN42 × 1 1/2″	W200405	G200405
	DN54 × 2″	W200406	G200406
	DN76.1 × 2 1/2″	W2004017	G2004017
	DN76.1 × 3″	W2004018	G2004018
	DN108 × 4″	W2004019	G2004019





Product Description	Size	Water #	Gas #
Slip Repair Coupling	DN15	W200301	G200301
	DN22	W200302	G200302
	DN28	W200303	G200303
	DN35	W200304	G200304
	DN42	W200305	G200305
	DN54	W200306	G200306
	DN76.1	W200307	G200307
	DN108	W200308	G200308





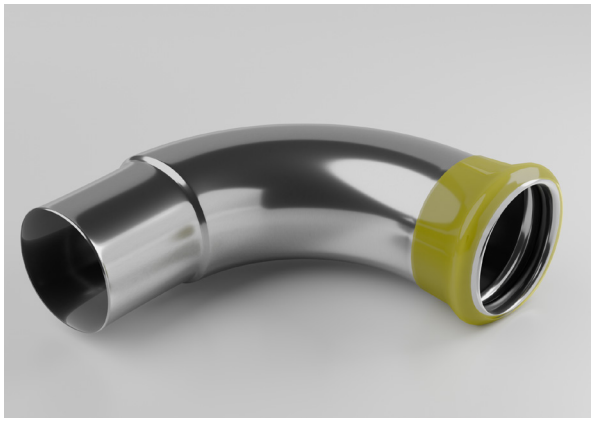
Product Description	Size	Water #	Gas #
#2 Female Adaptor	DN15 × 1/2″	W200407	G200407
	DN22 × 3/4″	W200408	G200408
	DN28 × 1″	W200409	G200409
	DN35 × 1 1/4″	W200410	G200410
	DN42 × 1 1/2″	W200411	G200411
	DN54 × 2″	W200412	G200412
	DN76.1 × 3″	W200413	G200413





Product Description	Size	Water #	Gas #
#12 Elbow 90 Socket x Socket	DN15	W200501	G200501
	DN22	W200502	G200502
	DN28	W200503	G200503
	DN35	W200504	G200504
	DN42	W200505	G200505
	DN54	W200506	G200506
	DN76.1	W200507	G200507
	DN108	W200508	G200508



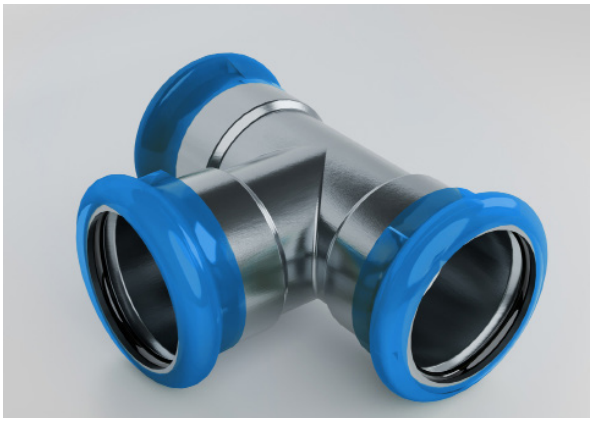


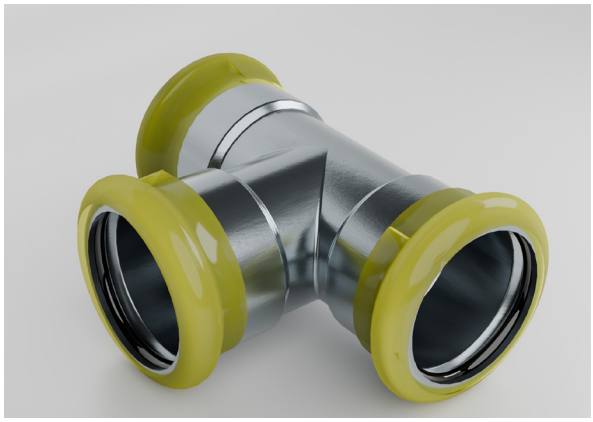
Product Description	Size	Water #	Gas #
Elbow 90 Socket x Spigot	DN15	W202101	G202101
	DN22	W202102	G202102
	DN28	W202103	G202103
	DN35	W202104	G202104
	DN42	W202105	G202105
	DN54	W202106	G202106
	DN76.1	W202107	G202107
	DN108	W202108	G202108





Product Description	Size	Water #	Gas #
Elbow 45 Socket x Socket	DN15	W201001	G201001
	DN22	W201002	G201002
	DN28	W201003	G201003
	DN35	W201004	G201004
	DN42	W201005	G201005
	DN54	W201006	G201006
	DN76.1	W201007	G201007
	DN108	W201008	G201008



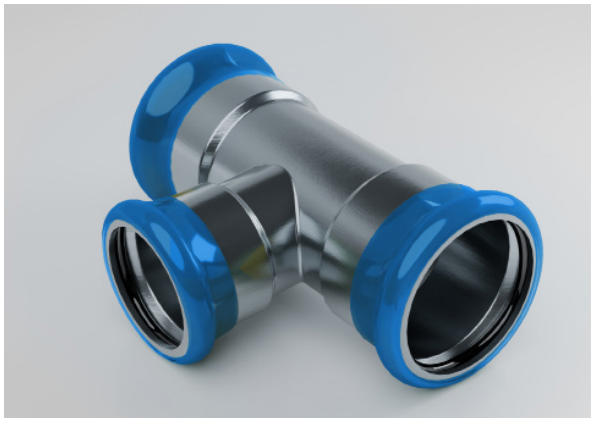


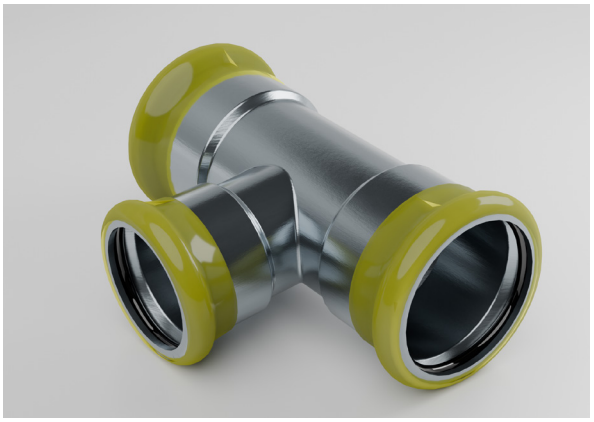
Product Description	Size	Water #	Gas #
#24 Equal Tee	DN15	W200701	G200701
	DN22	W200702	G200702
	DN28	W200703	G200703
	DN35	W200704	G200704
	DN42	W200705	G200705
	DN54	W200706	G200706
	DN76.1	W200707	G200707
	DN108	W200708	G200708





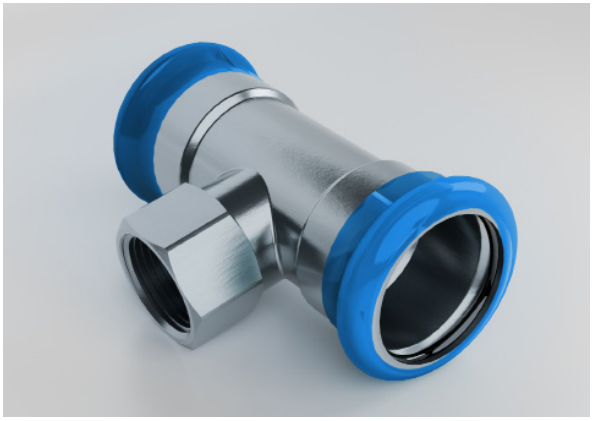
Product Description	Size	Water #	Gas #
#14 Female Elbow	DN15 × 1/2″	W202501	G202501
	DN22 × 3/4″	W202502	G202502
	DN28 × 1″	W202503	G202503

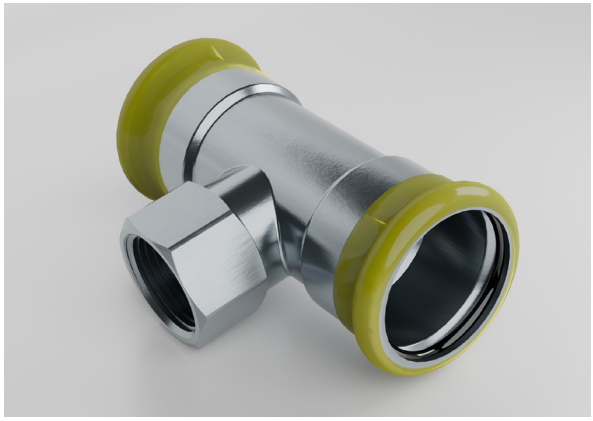




Product Description	Size	Water #	Gas #
Reducing Tee (End x End x Branch)	DN22 x DN22 x DN15	W200801	G200801
	DN28 x DN28 x DN15	W200802	G200802
	DN28 x DN28 x DN22	W200803	G200803
	DN35 x DN35 x DN22	W200804	G200804
	DN35 x DN35 x DN28	W200805	G200805
	DN42 x DN42 x DN22	W200806	G200806
	DN42 x DN42 x DN28	W200807	G200807
	DN42 x DN42 x DN35	W200808	G200808
	DN54 x DN54 x DN22	W200809	G200809
	DN54 x DN54 x DN28	W200810	G200810
	DN54 x DN54 x DN35	W200811	G200811
	DN54 x DN54 x DN42	W200812	G200812
	DN76.1 x DN76.1 x DN22	W200813	G200813
	DN76.1 x DN76.1 x DN28	W200814	G200814
	DN76.1 x DN76.1 x DN35	W200815	G200815
	DN76.1 x DN76.1 x DN42	W200816	G200816
	DN76.1 x DN76.1 x DN54	W200817	G200817
	DN108 x DN108 x DN22	W200818	G200818
	DN108 x DN108 x DN42	W200819	G200819
	DN108 x DN108 x DN54	W200820	G200820
	DN108 x DN108 x DN76.1	W200821	G200821

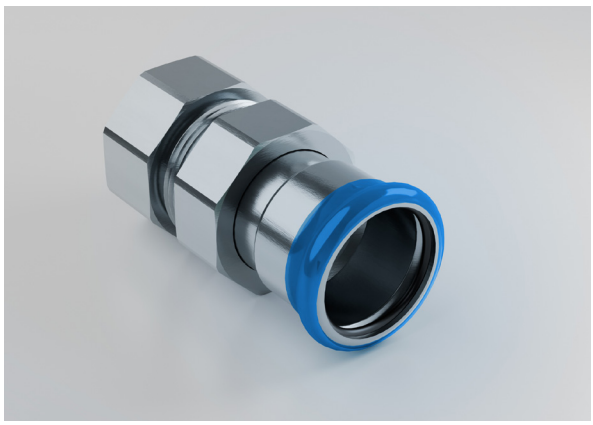
Product Description	Size	Water #	Gas #
#13 Male Elbow	DN15 × 1/2″	W202201	G202201
	DN22 × 3/4″	W202202	G202202
	DN28 × 1″	W202203	G202203

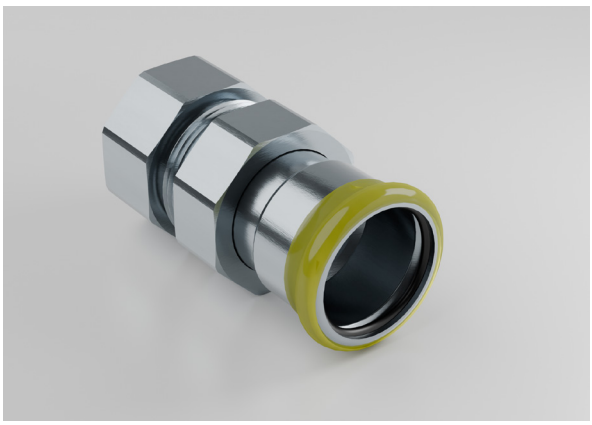




Product Description	Size	Water #	Gas #
Female Branch Reducing Tee (End x End x Branch)	DN22 x DN22 × 3/4″	W200901	G200901
	DN28 x DN28 × 3/4″	W200902	G200902
	DN35 x DN35 × 3/4″	W200903	G200903
	DN42 x DN42 × 1/2″	W200904	G200904
	DN42 x DN42 × 3/4″	W200905	G200905
	DN54 x DN54 × 3/4″	W200906	G200906
	DN76.1 x DN76.1 × 3/4″	W200908	G200908
	DN76.1 x DN76.1 × 2″	W200909	G200909
	DN108 x DN108 × 3/4″	W200910	G200910
	DN108 x DN108 × 2″	W200911	G200911

Product Description	Size	Water #	Gas #
#69 Male Union Loose Nut	DN15 × 1/2″	W201401	G201401
	DN22 × 3/4″	W201402	G201402





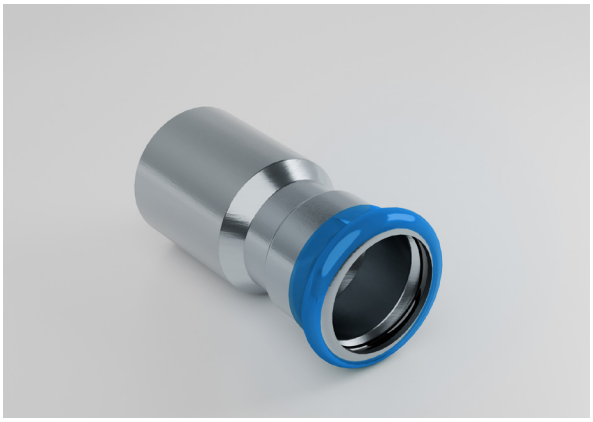
Product Description	Size	Water #	Gas #
#62 Female Union Loose Nut	DN15 × 1/2″	W201301	G201301
	DN22 × 3/4″	W201302	G201302
	DN28 × 1″	W201303	G201303
	DN35 × 1 1/4″	W201304	G201304
	DN42 × 1 1/2″	W201305	G201305
	DN54 × 2″	W201306	G201306

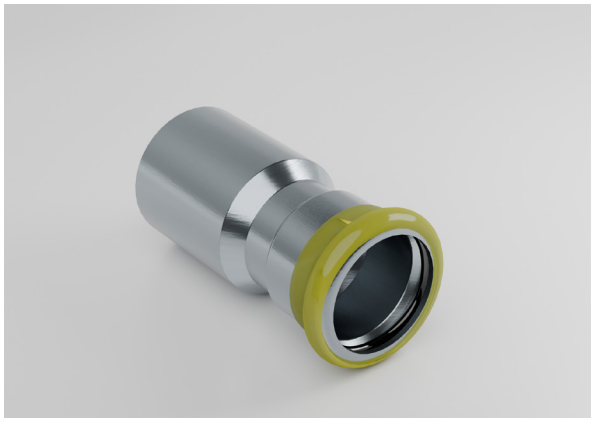




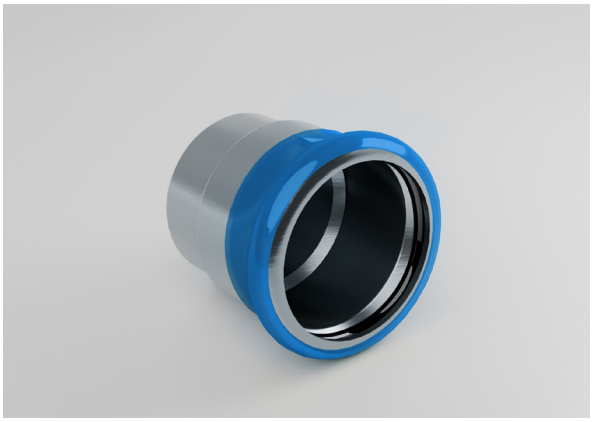
Product Description	Size	Water #	Gas #
#15 BP Female Elbow	DN15 × 1/2″	W201701	G202501
	DN22 × 3/4″	W201702	G202502

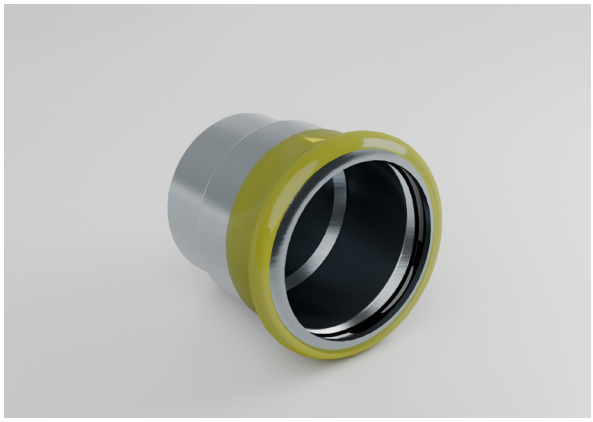
Product Description	Size	Water #	Gas #
#19 BP Male Elbow	DN15 × 1/2″ 90mm	W201801	G201801
	DN22 × 1/2″ 90mm	W201802	G201802
	DN22 × 3/4″ 90mm	W201803	G201803





Product Description	Size	Water #	Gas #
Reducing Coupling Spigot x Socket	DN22 x DN15	W201900	G201900
	DN28 x DN22	W201901	G201901
	DN35 x DN22	W201902	G201902
	DN35 x DN28	W201903	G201903
	DN42 x DN22	W201904	G201904
	DN42 x DN28	W201905	G201905
	DN42 x DN35	W201906	G201906
	DN54 x DN28	W201907	G201907
	DN54 x DN35	W201908	G201908
	DN54 x DN42	W201909	G201909
	DN76.1 x DN54	W201910	G201910
	DN108 x DN54	W201911	G201911
	DN108 x DN76.1	W201912	G201912





Product Description	Size	Water #	Gas #
#61 End Cap	DN15	W202001	G202001
	DN22	W202002	G202002
	DN28	W202003	G202003
	DN35	W202004	G202004
	DN42	W202005	G202005
	DN54	W202006	G202006
	DN76.1	W202007	G202007
	DN108	W202008	G202008

6.3 Transition Fittings

Product Description	Size	Water #	Gas #
Stainless Press x UNIPEX CRIMP ADAPTOR	DN15 x DN16	W202601	G202601
	DN22 x DN20	W202602	G202602
	DN28 x DN25	W202603	G202603

Product Description	Size	Water #	Gas #
Stainless Press x UNIPEX SLIDE ADAPTOR	DN15 x DN16	W202701	G202301
	DN22 x DN20	W202702	G202302
	DN28 x DN25	W202703	G202303

Product Description	Size	Water #	Gas #
Stainless Press x EZIPEX WATER CRIMP ADAPTOR	DN15 x DN16	W202301	N/A
	DN22 x DN20	W202302	N/A
	DN28 x DN25	W202303	N/A

Product Description	Size	Water #	Gas #
Dielectric Union (Stainless Press to Male Thread)	DN15 × 1/2″	W202801	N/A

PRODUCT WARRANTY

25 Year Warranty
This product is supplied with a 25-year warranty against any manufacturing defects. The period of the warranty commences on the date of sale and ends on the anniversary of the date of sale. Any defective product will be repaired or replaced free of charge.

Warranty Conditions
- Installation must have been carried out by a licensed plumber
- Failure is due to a fault in the manufacture of the product
- Installation of the product has been in accordance with the instructions provided.
- Installation must be in full accordance with the relevant local and National Plumbing Codes and appropriate Australian Standards (AS/NZS 3500 & AS/NZS 5601).
- The system must not be operated at temperatures and or pressures that exceed the printed rating on the appropriate specification sheet.
- This warranty does not extend to failure or defect caused by normal wear and tear, mechanical overload, paint, adhesives, abrasion, corrosion, high levels of chlorine, chemicals, electrochemicals or harsh detergents.
- No liability will be accepted for loss of profits, loss of revenue, loss of use, loss of contracts, loss of production or any other consequential loss or damage.
- The product must not be damaged during or after installation from grouting or stress due to concrete stress cracks or any other external forces.

Claim Procedure
- This warranty is offered by the Plumbing Plus Merchant (“Merchant”) from whom you purchased the EZIPRESS product and supported by the manufacturer of the product. The Merchant involved should be notified of any potential claim immediately. Proof of purchase is required to validate the warranty period and if this is not available, the warranty period shall default to the date of manufacture for each product. The product needs to be inspected by an authorized representative within 30 days of the alleged product failure.
- To be entitled to claim under this Warranty, you must send a Warranty Claim Form to the merchant.
- Should product be returned, a servient length of pipe must be supplied so that pipe markings are visible. Should a fitting be returned, it must be supplied with the pipe still attached with sufficient length of pipe to show the markings.
- If the merchant needs to return the goods to the manufacturer for assessment or repair, the Merchant concerned also reserves the right to engage a nominated outside agent to assess any fault product before honoring any warranty claim.
- Once a reasonable pre-approved amount is confirmed in writing by the Merchant, repairs can begin.
- Any repairs or replacement undertaken without the merchant’s approval will not be covered by this warranty

Exclusions
Plumbing Plus BKL Pty. Ltd. is not a party to this Warranty Agreement

Australian Consumer Law
Our goods come with guarantees that cannot be excluded under the Australian Consumer Law (ACL). You are entitled to a replacement or refund for a major failure and 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 of a major failure.

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