

SPARTAN

NZ COPPER PRESS

SPARTAN NZ COPPER PRESS TECHNICAL CATALOGUE
TO SUIT NZS3501 COPPER TUBE



AQUALINE

ANOTHER QUALITY PRODUCT BY FORZA GLOBAL

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Key Features & Benefits



QUICK & EASY TO INSTALL

- Fast & Clean to install
- Lower installation hours on site
- Reduced installation costs



ENVIRONMENTALLY FRIENDLY WHEN INSTALLING

- No smoke
- No dangerous gases
- No toxic substances



CONSISTENCY

- Uniform connection throughout installation
- Removes issues of welding and joint imperfections
- Simple, quick and reliable installation process
- Secure, permanent join with encapsulated O-ring



FLAME-FREE

- No welding required
- No Hot Works Permits required
- Heat-free and safe connections



BUILT TO PERFORM

- FKM O-rings rated to 200°C
- Leak detection O-rings
- Superior HNBR O-rings
- AMI approved



EASY TO USE TOOLING

- Portable, user friendly tooling
- Compact battery operation tooling
- Wide range of tooling compatibility

1. Introduction

1.1 Benefits and Features

Spartan NZ Copper Press fittings are suitable to be used on Hard Drawn, Hard Drawn BQ and Annealed copper tube that complies with NZS 3501. Soldering and brazing is not required which eliminates the need for a Hot Works permit.

Spartan NZ Copper Press fittings work with REMS, Kempress, Viega, Rothenberger, Novopress and B-Press tooling provided NZ sizing 'V' profile jaw is used.

'V' profile fittings and packaging are colour coded to ensure that installers are using the correct fitting for the correct application. Fittings allow for cylindrical pipe insertion to avoid damaging the O-rings during installation.

Maximum operating pressure for water and gas fittings is 1600 (kPa) - (see 2.4 approved applications and operating parameters).

1.2 Product Applications

The Spartan NZ Copper Press range is suitable for water and gas applications. Improperly pressed fittings bypass leak detection O-rings, triggering leaks and signaling installation failure. All fittings have leak detection O-rings to suit specific installations, all packaging and fittings are colour coded for different types of installations, FKM (Fluorocarbon) O-rings and HNBR (Hydrogenated Nitrile Butadiene Rubber). All fittings can be installed with copper tube complying with NZS 3501.

1.3 Testing

Pressure testing should be carried in accordance to Water - AS/NZS 3500, or for Gas - AS/NZS 5601.

1.4 Design

Spartan NZ Copper Press fittings are the most preferred profile in the market place. The fitting is double pressed it gives installers confidence that the connection will be long lasting as the installer can see that the fitting is pressed both in front and behind the O-ring. The cylindrical pipe insertion when using 'V' profile fittings gives installers the peace of mind that there won't be any damage to the O ring seal.

Spartan NZ Copper V Press fittings are available in DN15 through to DN25 in a range of fittings for Water applications and Gas applications.



1.5 Storage and handling

Preserve the fittings by storing them in a cool, dry place to safeguard against contamination, damage, and dirt. Avoid direct sunlight exposure. Keep the fittings in their packaging to maintain the lubrication on the O-rings until installation is required.

Regarding gas fittings, refrain from using any lubricants like oils or greases on the O-ring; it is crucial to follow this guideline.



2. O-Ring Elements

2.1 Sealing Elements

Spartan NZ Copper Press O-rings are available in two separate O-ring types each designed for varying applications. FKM red O-rings and HNBR (Hydrogenated Nitrile Butadiene Rubber) yellow O-rings. Please refer to section 3 for the O-ring compatibility selection chart.

2.2 FKM O-Rings

FKM (Fluorocarbon) O-rings are suitable for potable water and have excellent resistance to: high temperatures up to 200°C (depending on the medium), ozone, weather, oxygen, mineral oil, fuels, hydraulic fluids, aromatics and many organic solvents and chemicals. FKM O-rings have a red O-ring and is available in DN15, 20 and 25.



2.3 HNBR O-Rings

HNBR (Hydrogenated Nitrile Butadiene Rubber) O-ring sealing element are utilised for the Gas press fittings. HNBR, compared to standard Nitrile, possesses superior mechanical properties and improved resistance to heat, ozone and chemicals. It is suited to propane, butane and natural gas (methane). It is not suitable for drinking water. Gas press fittings have a yellow O-ring and are marked with a yellow stamp. HNBR O-rings are available in DN15, 20 and 25. Copper Press to PE-Xb adapter fittings are available with EPDM O-rings, rated to 120°C.



2.4 Approved Applications and Operating Parameters

- Potable Water
- Non-Medical Gases
- Vacuum
- Low pressure steam
- Chilled Water
- Fire Services
- Hydronic Heating

FITTING	O-RING MATERIAL	PRESSURE RATING KPA	TEMP. °C
WATER	FKM	1600	200
GAS	HNBR	1600	100

3. O-Ring Selection Chart

		PRESSURE (KPA)	TEMP (°C)*	HT FKM	GAS HNBR
WATER SUPPLY					
HOT AND COLD POTABLE WATER	AUSTRALIAN/NEW ZEALAND AMI APPROVED, CERTIFICATION FOR ALL PLUMBING PRODUCTS IS RESTRICTED 1400KPA AT 95°C	1600	200	●	
SOLAR SYSTEMS (FLAT-PANEL COLLECTORS)	SYSTEM OPERATES AT A SUSTAINED TEMPERATURE OF 200°	1600	200	●	
CHILLED WATER (CLOSED SYSTEM)	CONTACT FORZA GLOBAL FOR OPEN SYSTEMS (INHIBITORS)	1600	≥-25	●	
SPRING WATER	CONTACT FORZA GLOBAL (POSSIBLE WITH DRINKING WATER)	1600	200	●	
FIRE SERVICES-FIRE SPRINKLER & HOSE REEL	CAPABLE OF HANDLING THE REQUIRED TEST PRESSURE OF 1700KPA OR 1.5 TIMES THE DESIGN PRESSURE AS SPECIFIED BY AS2419.1	1600	200	●	
STEAM	LOW PRESSURE STEAM EQUIPMENT	≤100	200	●	
PUMP CIRCULATED HW SYSTEMS	COMPLIANT WITH EN 12828			●	

ANTI-FREEZE / CORROSION PROTECTION / INHIBITORS					
	PRODUCT	MANUFACTURER			
ANTI-FREEZE COOLING CONCENTRATION 50%	ETHYLENE GLYCOL	VARIOUS	1600	-25 TO 200	●
	PROPYLENE GLYCOL	VARIOUS	1600	-25 TO 200	●
	ANTIFROGEN N	CLARIANT	1600	-25 TO 200	●
	ANTIFROGEN L	CLARIANT	1600	-25 TO 200	●
	TYFOCOR	TYFOROP-CHEMIE	1600	-25 TO 200	●
	TYFOCOR L	TYFOROP-CHEMIE	1600	-25 TO 200	●

OTHER MEDIA					
	ETHANOL		1600	25	●
	ACETONE	LIQUID	500	-10 TO 40	●
	CONDENSATE	STEAM EQUIPMENT	1600	110	●
	LEAKAGE INDICATOR LIQUID FOR OIL TANKS	BRENTAG R 36522	100	-20 TO 30	●

NATURAL GAS/ LPG					
NATURAL GAS	AUSTRALIAN/NEW ZEALAND GAS APPROVED, N.B. AS/NZS5601 PERMITS USE UP TO 200 KPA FOR ALL SYSTEMS.		200	100	●

OILS, COOLING MATERIALS AND LUBRICANTS					
ENGINE OILS AND LUBRICANTS (PETROLEUM-BASED SAE)	CONSULTATION REQUIRED		1000	70	●
HEATING OIL, DIESEL IN ACC. WITH EN590			500	40	●

OTHER GAS					
OXYGEN	OIL AND FAT FREE		1200	60	●
CARBOGEN	CO ₂ + O ₂ DRY		1600	70	●
ARGON	FOR WELDING		1600	AMBIENT	●
COMPRESSED AIR	OIL CONCENTRATION ≤25 MG/M ³		1600	70	●
	OIL CONCENTRATION ≥25 MG/M ³		1600	70	●
CARBON DIOXIDE – CO ₂	DRY		1600	70	●
CARBON MONOXIDE – CO	STAINLESS STEEL COMPONENTS NOT PERMITTED		1600	70	●
NITROGEN – N ₂	AFTER THE EVAPORATOR		1600	70	●
HYDROGEN – H ₂	WILL LEAK AT <0.001 CM ³ /MINUTE		500	70	●
FORMING GAS/WELDING GAS	80% ARGON / 20% CO ₂		1600	70	●
LOW VACUUM	P _{ABS} = 1MBAR				●
HELIUM – HE ₂			1600	70	●
XENON			1600	70	●
NEON			1600	70	●
KRYPTON			1600	70	●

NOT SUITABLE FOR: Refrigeration and Air Conditioning Applications, Acetylene, Urea Solution, Methanol, Glycerine Triacetate, Coolant Inhibitor, Sodium Hydroxide, Ammoniac (gaseous), Medical Gas Applications.

FKM - Fluorocarbon Rubber HNBR - Hydrogenated Nitrile Butadiene Rubber

* All temps are maximum permanent (operating) pressure figures

4. Certification and Testing : Fittings

Below is a list of tests performed to comply with ISO type 5 requirements:



Water

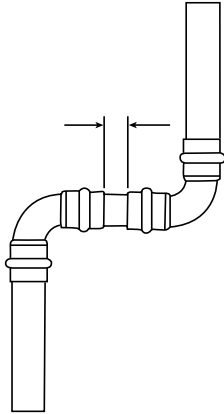
- Leak tightness under internal pressure.
- Strength of joint assembly (pressure cycling test)
- Resistance to pull-out of assembly joints
- Leak tightness under internal pressure while subjected to bending.
- Method for determining compatibility of water fittings with pipe.
- Vacuum test for leak tightness of joints with tube.

Gas

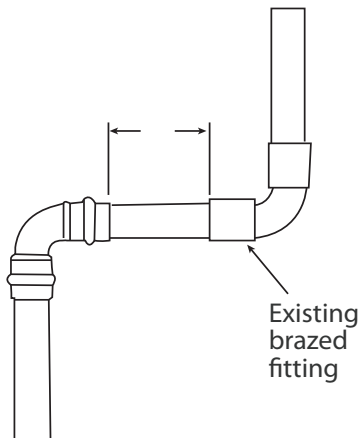
- Resistance to pull-out of assembled joined.
- Leak tightness under internal pressure whilst subjected to bending.
- Vacuum test for leak tightness of joints with tube under vacuum.
- Leak tightness under internal pneumatic pressure.
- Resistance of gas press fittings to temperature cycling.



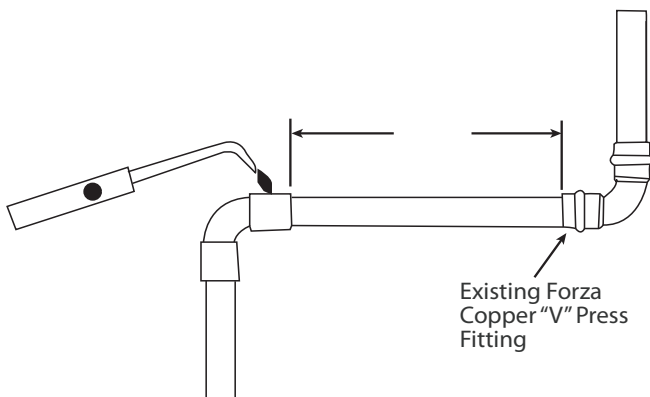
5. Clearances between fittings



CLEARANCE BETWEEN TWO PRESS FITTINGS	
FITTING SIZE	MINIMUM CLEARANCE MM
DN15	5
DN20	5
DN25	5



CLEARANCE BETWEEN PRESS FITTING AND EXISTING BRAZED FITTING	
FITTING SIZE	MINIMUM CLEARANCE MM
DN15	5
DN20	5
DN25	10



CLEARANCE BETWEEN A NEW BRAZED FITTING AND AN EXISTING PRESS FITTING	
FITTING SIZE	MINIMUM CLEARANCE MM
DN15	350
DN20	500
DN25	650

6. Product Range

<p>Straight Coupling</p> 	<p>Slip Coupling</p> 	<p>90° Elbow</p> 	<p>45° Elbow</p> 
<p>90° M&F Elbow</p> 	<p>45° M&F Elbow</p> 	<p>Equal Tee</p> 	<p>Reducer Coupling</p> 
<p>M&F Reducer Coupling</p> 	<p>Reducing Tee</p> 	<p>Female Wingback</p> 	<p>Male Wingback</p> 
<p>Swivel Nut Connector</p> 	<p>Swivel Nut Elbow</p> 	<p>Female Straight Connector</p> 	<p>Male Straight Connector</p> 
<p>Copper Press to PE-Xb Adapter*</p> 		<p>End Cap</p> 	

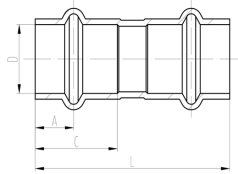
Available in FKM - Fluorocarbon Rubber and HNBR - Hydrogenated Nitrile Butadiene Rubber

* Copper Press to PE-Xb adapter fittings are only available with EPDM O-ring, rated to 120°C

7. Product List

All measurements displayed on Spartan NZ Copper Press product lists are in are in millimetres.

STRAIGHT COUPLING

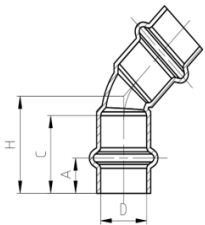
LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	D	C	L	A
	SPCPWC15	SPCPGC15	SPARTAN NZ COPPER V PRESS COUPLING 15MM	15.1	19	45	9
	SPCPWC20	SPCPGC20	SPARTAN NZ COPPER V PRESS COUPLING 20MM	21.4	22.5	52	10.2
	SPCPWC25	SPCPGC25	SPARTAN NZ COPPER V PRESS COUPLING 25MM	27.8	22.5	52	10.2

SLIP COUPLING

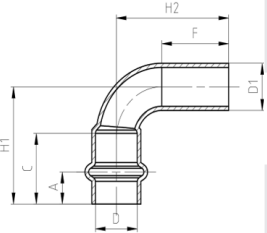
LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	D	A	L
	SPCPWSLC15	SPCPGSLC15	SPARTAN NZ COPPER V PRESS SLIP COUPLING 15MM	14.9	10	80
	SPCPWSLC20	SPCPGSLC20	SPARTAN NZ COPPER V PRESS SLIP COUPLING 20MM	21.25	10	80
	SPCPWSLC25	SPCPGSLC25	SPARTAN NZ COPPER V PRESS SLIP COUPLING 25MM	27.6	10	90

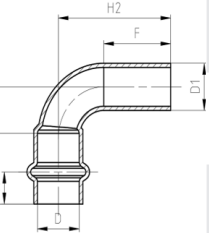
90° ELBOW

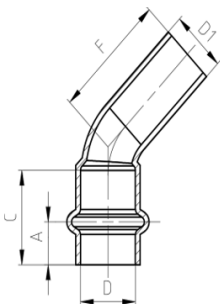
LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	D	C	H	A
	SPCPWE15	SPCPGE15	SPARTAN NZ COPPER V PRESS ELBOW 15MM	15.1	19	40.2	9
	SPCPWE20	SPCPGE20	SPARTAN NZ COPPER V PRESS ELBOW 20MM	21.4	22.5	51.6	10.2
	SPCPWE25	SPCPGE25	SPARTAN NZ COPPER V PRESS ELBOW 25MM	27.8	22.5	59	10.2

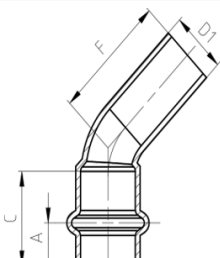
45° ELBOW


LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	D	A	C	H
	SPCPW45E15	SPCPG45E15	SPARTAN NZ COPPER V PRESS 45° ELBOW 15MM	14.9	10	22	27.5
	SPCPW45E20	SPCPG45E20	SPARTAN NZ COPPER V PRESS 45° ELBOW 20MM	21.25	10	22.5	30
	SPCPW45E25	SPCPG45E25	SPARTAN NZ COPPER V PRESS 45° ELBOW 25MM	27.6	10	22.5	30.5

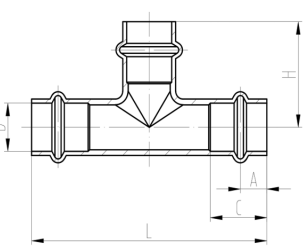
90° M&F ELBOW


LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	D	D2	A	C	F	H1	H2
	SPCPWEMF15	SPCPGEMF15	SPARTAN NZ COPPER V PRESS ELBOW 15MM TUBE X 15MM	14.9	14.7	10	22	24	36.5	40
	SPCPWEMF20	SPCPGEMF20	SPARTAN NZ COPPER V PRESS ELBOW 20MM TUBE X 20MM	21.25	21.05	10	22.5	24.5	40.5	51
	SPCPWEMF25	SPCPGEMF25	SPARTAN NZ COPPER V PRESS ELBOW 25MM TUBE X 25MM	27.6	27.4	10	22.5	24.5	49.5	57.5

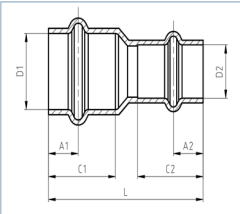
45° M&F ELBOW


LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	D	D2	A	C	F
	SPCPW45EMF15	SPCPG45EMF15	SPARTAN NZ COPPER V PRESS 45° ELBOW 15MM	14.9	14.7	10	22	24
	SPCPW45EMF20	SPCPG45EMF20	SPARTAN NZ COPPER V PRESS 45° ELBOW 20MM	21.25	21.05	10	22.5	24.5
	SPCPW45EMF25	SPCPG45EMF25	SPARTAN NZ COPPER V PRESS 45° ELBOW 25MM	27.6	27.4	10	22.5	24.5

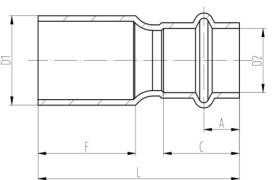
EQUAL TEE

LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	D	C	L	H	A
	SPCPWET15	SPCPGET15	SPARTAN NZ COPPER V PRESS EQUAL TEE 15MM	15.1	19	79	33.3	9
	SPCPWET20	SPCPGET20	SPARTAN NZ COPPER V PRESS EQUAL TEE 20MM	21.4	22.5	91	40	10.2
	SPCPWET25	SPCPGET25	SPARTAN NZ COPPER V PRESS EQUAL TEE 25MM	27.8	22.5	97	45	10.2

REDUCER COUPLING

LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	D1	A1	C1	D2	A2	C2	L
	SPCPWRC2015	SPCPGRC2015	SPARTAN NZ COPPER V PRESS REDUCER 20MM X 15MM	21.25	10	22.5	14.9	10	22	52
	SPCPWRC2520	SPCPGRC2520	SPARTAN NZ COPPER V PRESS REDUCER 25MM X 20MM	27.6	10	22.5	21.25	10	22.5	52

M&F REDUCER COUPLING

LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	D1	D2	C	F	L	A
	SPCPWRMF2015	SPCPGRMF2015	SPARTAN NZ COPPER V PRESS REDUCER 20MM TUBE X 15MM	21.4	15.1	19	23.5	52	9
	SPCPWRMF2515	SPCPGRMF2515	SPARTAN NZ COPPER V PRESS REDUCER 25MM TUBE X 15MM	27.8	15.1	19	23.5	52	9
	SPCPWRMF2520	SPCPGRMF2520	SPARTAN NZ COPPER V PRESS REDUCER 25MM TUBE X 20MM	27.8	21.4	22.5	23.5	55	10.2

REDUCING TEE

LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	D1	D2	C1	C2	L	H	A1	A2
	SCPWRT202015	SCPGRT202015	SPARTAN NZ COPPER V PRESS REDUCING TEE 20MM X 20MM X (15MM)	21.4	15.1	22.5	19	83	36	10.2	9

REDUCING TEE

LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	D1	D2	D3	C1	C2	C3	L	L1	H	A1	A2	A3
	SPCPWRT201515	SPCPGRT201515	SPARTAN NZ COPPER V PRESS REDUCING TEE 20MM X 15MM X (15MM)	21.4	15.1	15.1	22.5	19	19	86	41	36.6	10.2	9	9
	SCPWRT201520	SCPGRT201520	SPARTAN NZ WCOPPER V PRESS REDUCING TEE 20MM X 15MM X (20MM)	21.4	21.4	15.1	22.5	22.5	19	89	46.5	39.6	10.2	10.2	9

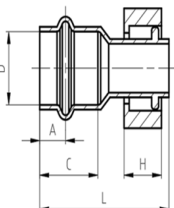
FEMALE WINGBACK

LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	A	B	C	D	E
	SPCPWWF1515	SPCPGWF1515	SPARTAN NZ COPPER V PRESS FEMALE WINGBACK 15MM X 1/2" BSPF	14.8	19.9	24	37.5	18
	SPCPWWF2020	SPCPGWF2020	SPARTAN NZ COPPER V PRESS FEMALE WINGBACK 20MM X 3/4" BSPF	21.3	26.8	25	44.5	19

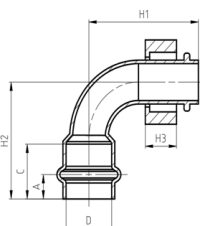
MALE WINGBACK

LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	A	B	C	D
	SPCPWWM151575	SPCPGWM151575	SPARTAN NZ COPPER V PRESS MALE WINGBACK 15MM X 1/2" BSPM X 75MM	14	19.9	60.5	15
	SPCPWWM151590	SPCPGWM151590	SPARTAN NZ COPPER V PRESS MALE WINGBACK 15MM X 1/2" BSPM X 90MM	14	19.9	85	15
	-	SPCPGWM201575	SPARTAN NZ COPPER PRESS GAS MALE WINGBACK 20MM X 1/2" BSPM X 75MM	-	-	-	-
	-	SPCPGWM201590	SPARTAN NZ COPPER V PRESS GAS MALE WINGBACK 20MM X 1/2" BSPM X 90MM	-	-	-	-
	-	SPCPGWM2015200	SPARTAN NZ COPPER V PRESS GAS MALE WINGBACK 20MM X 1/2" BSPM X 200MM	-	-	-	-
	-	SPCPGWM2015250	SPARTAN NZ COPPER V PRESS GAS MALE WINGBACK 20MM X 1/2" BSPM X 250MM	-	-	-	-
	-	SPCPGWM2525250	SPARTAN NZ COPPER V PRESS GAS MALE WINGBACK 25MM X 1" BSPM X 250MM	-	-	-	-

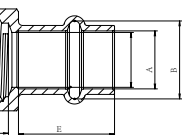
SWIVEL NUT CONNECTOR

LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	D	A	C	L	H	B
	SPCPWSNF1515	SPCPGSNF1515	SPARTAN NZ COPPER V PRESS SWIVEL NUT 15MM X 1/2" FEMALE	14.9	10	22	50	14.5	25
	SPCPWSNF2020	SPCPGSNF2020	SPARTAN NZ COPPER V PRESS SWIVEL NUT 20MM X 3/4" FEMALE	21.25	10	22.5	50	14.5	30

SWIVEL NUT ELBOW

LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	D	A	C	B	H1	H2	H3
	SPCPWSNE1515	SPCPGSNE1515	SPARTAN NZ COPPER V PRESS SWIVEL NUT ELBOW 15MM X 1/2" FEMALE	14.9	10	22	25	41.5	37	14.5
	SPCPWSNE2020	SPCPGSNE2020	SPARTAN NZ COPPER V PRESS SWIVEL NUT ELBOW 20MM X 3/4" FEMALE	21.25	10	22.5	30	47	52.5	14.5

FEMALE STRAIGHT CONNECTOR

LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	A	B	C	D	E
	SPCPWFSC1515	SPCPGFSC1515	SPARTAN NZ COPPER PRESS STRAIGHT CONNECTOR 15MM X 1/2" BSPF	14.8	19.9	1/2"	16.5	24
	SPCPWFSC2020	SPCPGFSC2020	SPARTAN NZ COPPER PRESS STRAIGHT CONNECTOR 20MM X 3/4" BSPF	21.25	26.8	3/4"	17.5	24
	SPCPWFSC2525	SPCPGFSC2525	SPARTAN NZ COPPER PRESS STRAIGHT CONNECTOR 25MM X 1" BSPF	27.53	33.35	1"	19	24

MALE STRAIGHT CONNECTOR

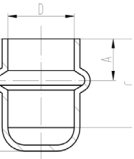
LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	A	B	C	D
	SPCPWMSC1515	SPCPGMSC1515	SPARTAN NZ COPPER PRESS STRAIGHT CONNECTOR 15MM X 1/2" BSPM	14.8	19.9	15	45
	SPCPWMSC2020	SPCPGMSC2020	SPARTAN NZ COPPER PRESS STRAIGHT CONNECTOR 20MM X 3/4" BSPM	21.25	26.8	20	46.5
	SPCPWMSC2525	SPCPGMSC2525	SPARTAN NZ COPPER PRESS STRAIGHT CONNECTOR 25MM X 1" BSPM	30.63	36.60	25	51.5

NZ COPPER PRESS X SPARTAN DUAL PEX ADAPTER

LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	A	B	C	D
	SPCCPW1615NZ	SPCCPG1615NZ	SPARTAN DUAL PEX CRIMP 16MM X COPPER PRESS 1/2" NZ	14.8	19.9	24	9
	SPCCPW2020NZ	SPCCPG2020NZ	SPARTAN DUAL PEX CRIMP 20MM X COPPER PRESS 3/4" NZ	21.3	26.8	24	12
	SPCCPW2525NZ	SPCCPG2525NZ	SPARTAN DUAL PEX CRIMP 25MM X COPPER PRESS 1" NZ	27.53	33.35	24	15.5

*Copper Press to PE-Xb adapter fittings only available with EPDM O-ring rated to 120°C

END CAP

LINE DRAWING	WATER CODE	GAS CODE	DESCRIPTION	D	C	H	A
	SPCPWEC15	SPCPGEC15	SPARTAN NZ COPPER V PRESS END CAP 15MM	15.1	19	24	9
	SPCPWEC20	SPCPGEC20	SPARTAN NZ COPPER V PRESS END CAP 20MM	21.4	22.5	27	10.2
	SPCPWEC25	SPCPGEC25	SPARTAN NZ COPPER V PRESS END CAP 25MM	27.8	22.5	27	10.2

8. Warranty

**SPARTAN**
NZ COPPER V PRESS

Spartan NZ Copper Press fittings are guaranteed against manufacturing defects for a period of 25 years when installed and used in accordance of Australian and New Zealand Plumbing codes and or the LOCAL or REGIONAL Authority and when installed by a licensed PLUMBER.

Spartan NZ Copper Press fittings must only be used with copper tube complying to New Zealand Standard NZS3501:1976.

Spartan NZ Copper Press warranty only applies to installations whereby a document can be provided detailing the installation has been pressure tested to AS/NZS 3500 for water applications and AS/NZS5601 for gas applications.

Spartan NZ Copper Press holds an ISO type 5 licence no. AMI 74718.

Spartan NZ Copper Press certify a 25 year warranty on Spartan NZ Copper Press systems only and is backed by a products and public liability policy to the value of AUD \$50,000,000.

The policy covers public and products liability of \$50,000,000 per Occurrence or per Occurrence and in the aggregate (as applicable), in accordance with the Policy terms and conditions.

This warranty covers Spartan NZ Copper Press by Forza Global.



9. Installation Guide

The following instructions explain the correct installation procedure for Spartan NZ Copper Press fittings with copper tube that complies with NZS 3501.

1

With the use of a tube cutter, cut copper tube to the desired length.

2

Next using a deburring tool, deburr the end of the tube that will be inserted into the fitting.

3

If connecting to existing copper tube to AS/NZS 1432. Ensure tube is clean by way of soft scourer or emery paper.

4

Check that you have the correct fitting for the application. Water will have an FKM red 'O' ring, gas will have a HNBR yellow 'O' ring.

The following instructions explain the correct installation procedure for Spartan NZ Copper Press fittings with copper tube that complies with NZS 3501.

5



Line up tube with fitting and place a mark on the tube at the correct insertion depth.

6



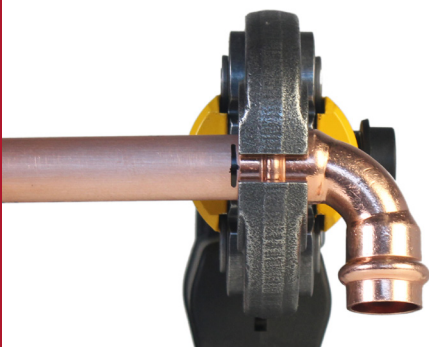
When tube is inserted mark should line up with back of fitting.

7



Insert the correct size press jaw for the size of fitting being pressed. Ensure jaw is clean and moves freely.

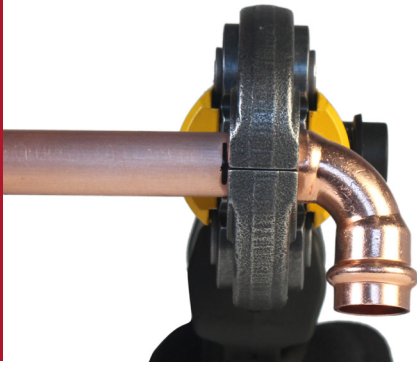
8



Line up the jaw of the tool so the centre of the jaw lines up with the raised section of the fitting.

The following instructions explain the correct installation procedure for Spartan NZ Copper Press fittings with copper tube that complies with NZS 3501.

9



Press and hold down the trigger on the tool until the jaws fully close and the crimp cycle is complete.

10



Inspect fitting to ensure press is complete.



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