

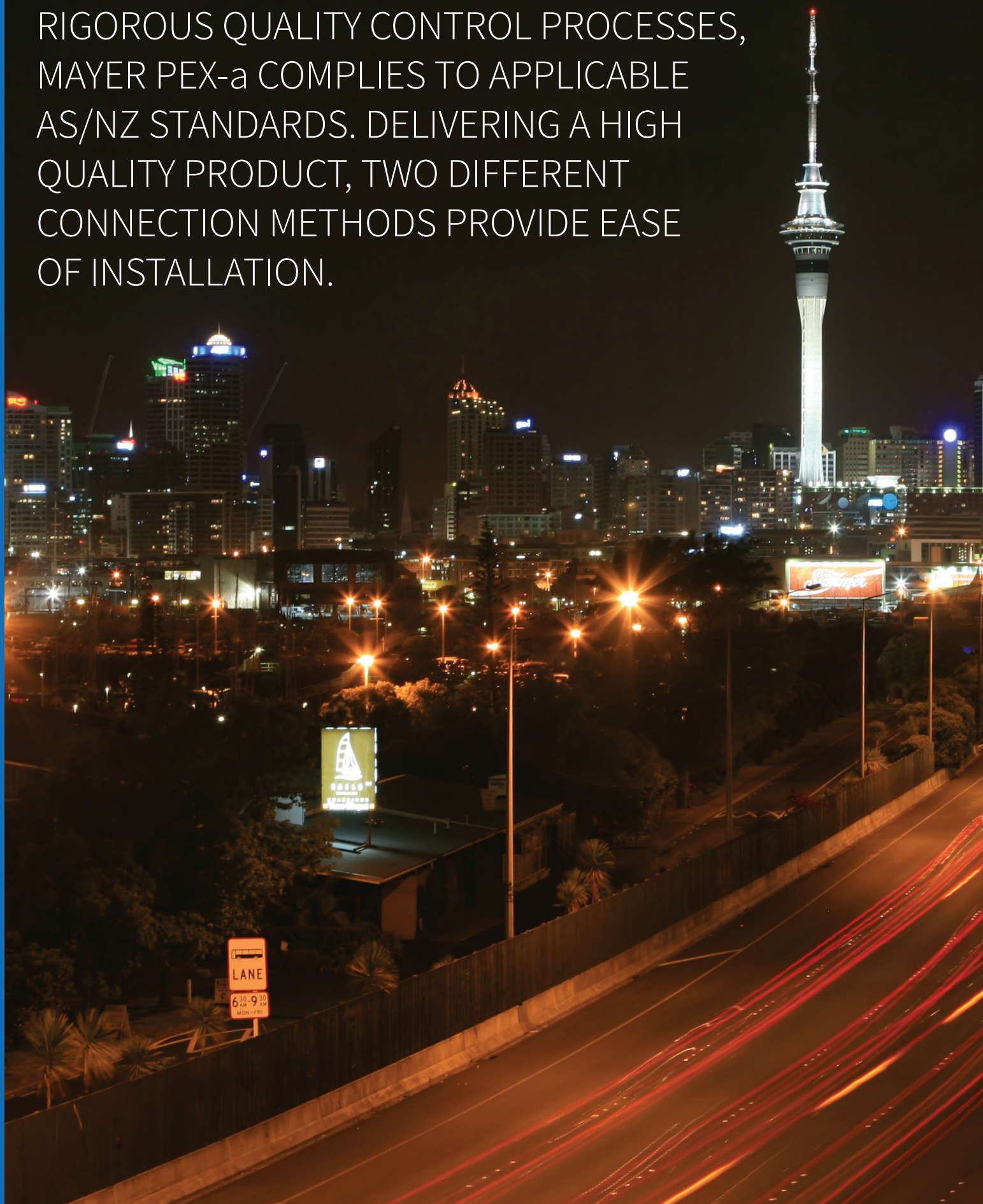


MAYER PEX-a PRODUCT & TECHNICAL MANUAL

SLIDE & CRIMP



MAYER PEX-a FLEXIBLE PIPE SYSTEMS ARE DESIGNED AND PRECISION MANUFACTURED FROM TOP GRADE MATERIALS. UNDERGOING RIGOROUS QUALITY CONTROL PROCESSES, MAYER PEX-a COMPLIES TO APPLICABLE AS/NZ STANDARDS. DELIVERING A HIGH QUALITY PRODUCT, TWO DIFFERENT CONNECTION METHODS PROVIDE EASE OF INSTALLATION.



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SECTION 1

PRODUCT INFORMATION

Mayer PEX-a pipe systems are the first choice in flexible systems for speed, durability, ease of installation and longevity. Suitable for commercial and residential applications, Mayer PEX-a delivers a competitive return on investment, with a favourable total cost of ownership. An extensive range of pipes and fittings from 16mm to 25mm provides installers with a complete solution to meet diverse needs. Quality is assured: all pipes and fittings are rigorously inspected before leaving the factory.



FEATURES



With the success of the Mayer 316L Stainless press system in New Zealand, Mayer NZ now bring you Mayer PEX-a, a high quality flexible pipe system. With this addition to our company's brands, we are now able to offer a full water pipe system to cover all aspects of plumbing system installation.

Mayer has earned an enviable reputation and is the product of choice for installers due to its high quality, durability and cost-competitiveness.

Fast & Easy to Use

Installing the Mayer PEX-a pipe system delivers advantages over traditional brazed copper systems. Mayer PEX-a is a no rubber O-ring system. There is no heat or flame, which means no hot-works permit. As a result, installing Mayer PEX-a is faster, easier, cleaner, and most importantly safer.

High Quality PEX-a pipe

Each Mayer pipe is precision-manufactured from Certified PEX-a polymer.

- Sizes 16–25mm
- AS/NZS 2492:2007 compliant
- ASTM F2023-15 compliant

PEX-a fittings features include:

- Crimp
- Sliding sleeve
- DZR brass
- AS/NZS 2537.2:2011 compliant

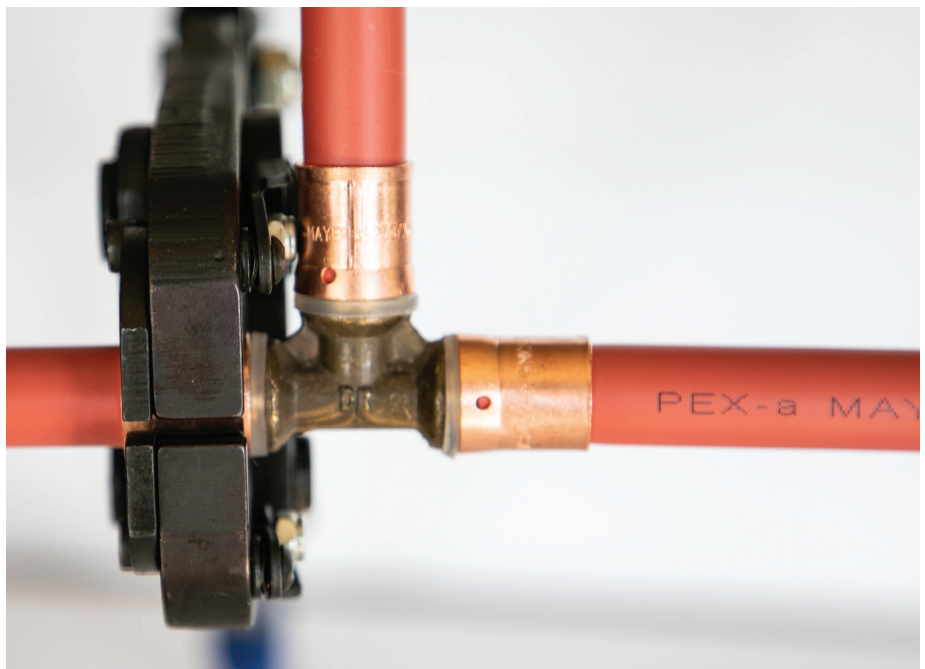
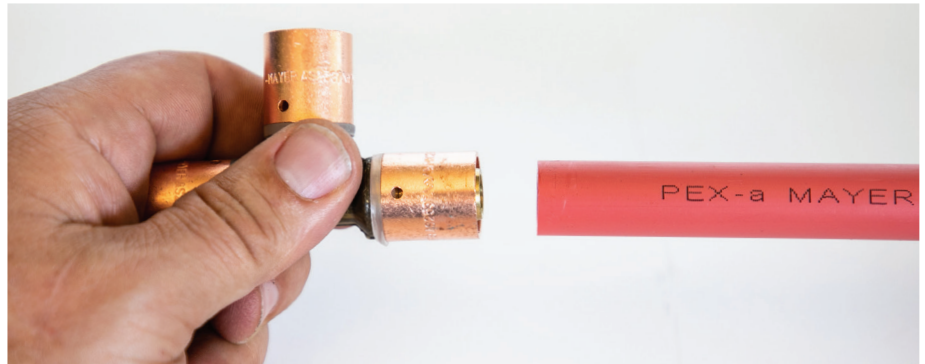
Install with Ease with Mayer Tooling

Gearing up to install Mayer PEX-a pipe systems is easy. If you have previously used crimp or slide PEX-a piping systems, in many cases your existing tool will be sufficient. Please check your tooling with your Aquatherm territory manager.



CRIMP FITTINGS

Made from DZR brass, Mayer PEX-a crimp fittings are one of New Zealand's largest crimp profiles. Designed for a simple and fast crimping method, inspection ports have been incorporated to ensure full insertion of the pipe.





Mayer PEX-a Crimp Fittings

Mayer PEX-a is manufactured to meet the strict requirements of AS/NZS 2537.2:2011 and AS/NZS 2537.5:2011, the system being suitable for water applications.

Fittings are made from dezincification resistant (DZR) brass, threads manufactured to AS/NZS 1722.1 and the fitting complemented with copper crimp-rings. The copper is positioned and fixed to the brass body via a high-quality nylon collet connector. Each fitting comes fitted with protection plugs to ensure the crimp-ring holds their shape during transportation and to keep the internals of the fitting dust and debris free. Importantly, the collet connector has inspection ports which allow installers to determine if the pipe is inserted to the correct depth.

It is critical to the integrity of the joint that the collet and crimp-ring are correctly positioned on the body of the fitting and have not been dislodged in transit prior to any attempt to make a joint.

In order to complete a joint, cut the pipe square with an approved cutter, push the pipe all the way into the end of the fitting, the pipe will be clearly visible via the inspection ports. If the pipe is at the correct depth and the fitting is aligned as required, the joint is ready for "crimping". Upon crimping the joint the pipe is compressed between the wall of the crimp-ring and the barb of the fitting.

One of the many design features of the Mayer PEX-a crimp is that a controlled, positive seal is produced without O-rings, thereby totally eliminating the potential for all O-ring problems during installation such as O-ring damage and the O-rings rolling along the barb. Most importantly, this feature helps avoid any potential issues should the fitting be missed and not crimped at installation because a problem will be immediately evident during the pressure test.

The range is available for sizes from 16mm to 25mm.

CRIMP FITTING TECHNICAL DATA

Nominal Diameter	Description	Nom OD (mm)	Body	Crimp Ring
16mm	16 Crimp	16	DZR Brass	Copper
20mm	20 Crimp	20	DZR Brass	Copper
25mm	25 Crimp	25	DZR Brass	Copper

SLIDE FITTINGS

Mayer slide fittings provide a tried and tested method of connection. Made from DZR brass, they allow for a simple and fast connection method, and are compatible with New Zealand’s most widely used sliding sleeve tool.

The body of the fitting and sleeve are both made from dezincification resistant brass and threads are formed to AS/NZS 1722.

Page 22 shows the correct installation method when installing Mayer PEX-a Slide.

The range is available for sizes 16mm to 25mm.

Nominal Diameter	Description	Nom OD (mm)	Body	Sleeve
16mm	Compression	16	DZR Brass	DZR Brass
20mm	Compression	20	DZR Brass	DZR Brass
25mm	Compression	25	DZR Brass	DZR Brass

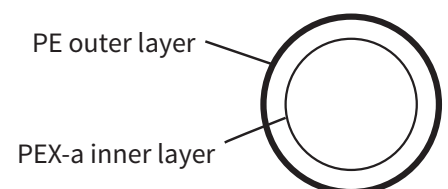
Mayer PEX-a pipe is ideally suited to potable water applications, both residential and commercial. Mayer PEX-a has a maximum 10 bar 65-degree service life and is suited for 55/65 degree applications that are required after the tempering valve.

- Domestic hot and cold water
- In-ground residential main supplies
- Commercial flexible take offs in collaboration with PPR and Stainless mains

ADVANTAGES OF MAYER PEX-a

- Service life of 50+ years
- Recognised by commercial and residential tradesmen as a simple press system, no O-rings, simply cut fit and press, removing the risk of installer error due to contamination, damaged or dislodged O-rings
- Mayer PEX-a can be crimped with either standard manual press tools or a battery tool
- Reduces site theft and project disruption compared with copper systems
- Mayer PEX-a is ideal for commercial applications in small dimensions in support of Mayer stainless 316 press systems
- Strong with additional flexibility for effortless installation
- High impact strength making it extremely durable
- Noise suppression, up to 70% less water hammer than copper systems
- Mayer PEX-a has excellent thermal properties

Mayer PEX-a Pipe is a bonded, double-layered tube, manufactured to the exacting requirements of AS/NZS 2492:2007. The outer layer is a coloured PE and the core is PEX-a which is opaque.



The bore of Mayer PEX-a pipe is very smooth which results in very little friction loss and is resistant to internal scaling. Mayer PEX-a pipe has low thermal conductivity properties, increased flexibility and is lighter than its metal competitors. These features, when coupled with zero hot works, ensure Mayer PEX-a water systems offer many benefits to the installer and consumer.

Mayer PEX-a water pipe is rated at 2000kPa @ 20°C but the installer must consider a number of limitations placed upon its use as set-out in AS/NZS 3500¹.

TECHNICAL DATA – PEX-a

Nominal Diameter	DN16	DN20	DN25
Nominal OD (mm)	16	20	25
Nominal Bore (mm)	11.60	14.40	18.00
Thermal Conductivity (W/mK)	0.35	0.35	0.35
Thermal Expansion (mm/mK)	0.015	0.015	0.015
Thermal R-Value (K / W)	0.006	0.008	0.010
Pipe Roughness (W mm)	0.007	0.007	0.007
Maximum Continuous Operating Temperature (°C)	65	65	65
Maximum Operating Pressure (kPa)	1000	1000	1000
Bend Radius (without form bend)	8 x OD	8 x OD	8 x OD
Weight (g) / m	98	153	235
Volume (l) / m	0.106	0.163	0.254
Coil Length (m)	100	50	25
Straight Length (m)	5	5	5
Colours (Black, Red)	B&R	B&R	B&R

SECTION 2

QUALITY ASSURANCE

Quality is at the heart of Mayer PEX systems. From raw materials to DZR brass and PEX-a components to the manufacture of individual pipes and fittings, every process and procedure is rigorously aligned with industry standards and best practices. No items leave the factory until they have passed stringent quality assurance tests.

Mayer PEX products are certified suitable for potable water with industry best chlorine resistance properties.

Our end to end quality standards mean when Mayer PEX arrives to site, it can be depended upon. Every time.



QUALITY ASSURANCE

MAYER COMPLIES WITH INDUSTRY STANDARDS

Mayer PEX-a is manufactured by a global pipe systems provider based in Shanghai and is recognised as a proven plastics pipe and fitting systems manufacturer to both the Australian, South Pacific, Asian and North American markets with over 15 years of manufacturing experience. The factory is internationally recognised and accredited to ISO 9001, environmental management, along with an in-house independent testing laboratory which assures the highest quality standard is produced for the New Zealand markets.



Mayer PEX-a Design & Compliance

Mayer PEX-a is designed and manufactured as a system for hot and cold-water installations in accordance with Australian Standard AS/NZS 3500. Mayer PEX-a Crimp fittings and Slide fittings are manufactured to meet the strict requirements of AS/NZS 2537.2:2011 and AS/NZS 2537.5:2011, WaterMark approval by SAI Global. ASTM F2023-15 Chlorine test.



WaterMark
WMK26578



QUALITY ASSURANCE

MANUFACTURING



MANUFACTURED IN A LEADING EDGE PEX FACILITY SINCE 2003, ALL MAYER PEX PRODUCTS ARE PRODUCED IN A STATE OF THE ART FACILITY. THE FACTORY'S QUALITY MANAGEMENT SYSTEMS ARE RECOGNIZED AS INDUSTRY LEADING. QUALITY PRODUCTS START WITH THE BEST RAW MATERIALS. SOURCED FROM FIRST GRADE DZR BRASS, EVERY ITEM IS TRACKED THROUGHOUT THE SUPPLY CHAIN TO ENSURE END TO END QUALITY MANAGEMENT.

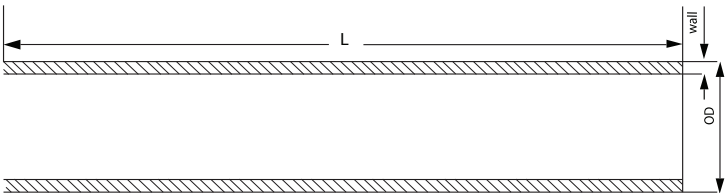
SECTION 3

PRODUCT RANGE

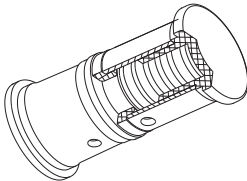
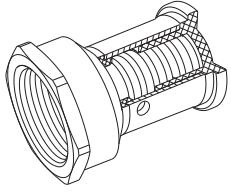
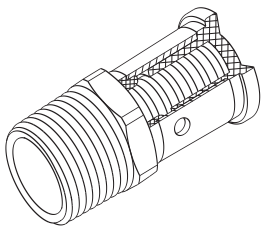
The Mayer PEX system provides a simple range, suitable for any application. With crimp to sliding sleeve, Mayer PEX has you covered. Every Mayer product, no matter how large or small, is manufactured to exacting standards. Installation is rapid, with no heat or solvents.



PEX-a & CRIMP FITTINGS

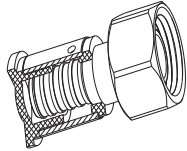
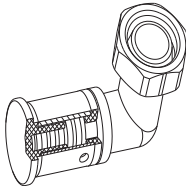
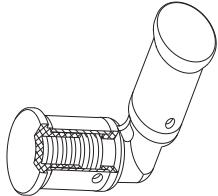
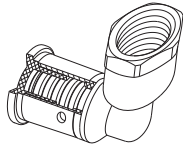
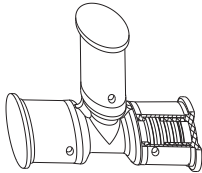
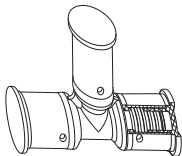
PEX-a PIPE	Product Code	Size/OD	Length	Wall	
	Lengths				
	Black	PB100516	16	5	2.2
	Black	PB100520	20	5	2.8
	Black	PB100525	25	5	3.5
	Red	PR100516	16	5	2.2
	Red	PR100520	20	5	2.8
	Coils				
	Black	PB110016	16	100	2.2
	Black	PB105020	20	50	2.8
	Black	PB102525	25	25	3.5
Red	PR110016	16	100	2.2	
Red	PR105020	20	50	2.8	

MAYER CRIMP

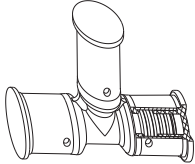
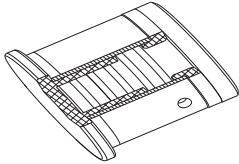
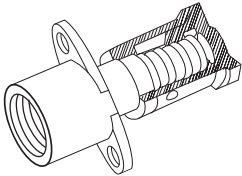
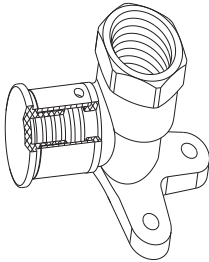
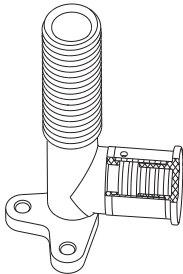
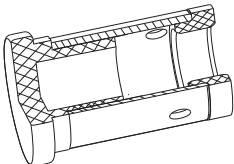
No. 1 STRAIGHT COUPLING/REDUCER	Product Code	Size/OD	Bag Qty
	P1000016	16	10
	P1000020	20	10
	P1000025	25	10
	P1102016	20-16	10
	P1102520	25-20	10
No. 2 FEMALE STRAIGHT CONNECTOR	Product Code	Size/OD	Bag Qty
	P1416012	16-1/2"	10
	P1420034	20-3/4"	10
	P1425100	25-1"	10
No. 3 MALE STRAIGHT CONNECTOR	Product Code	Size/OD	Bag Qty
	P1616012	16-1/2"	10
	P1616034	16-3/4"	10
	P1620012	20-1/2"	10
	P1620034	20-3/4"	10
	P1625034	25-3/4"	10
	P1625100	25-1"	10

Please reference product codes when ordering fittings.

CRIMP FITTINGS

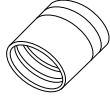
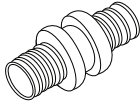
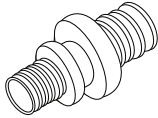
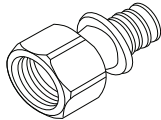
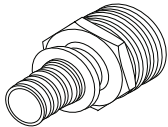
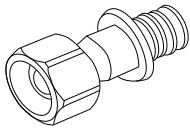
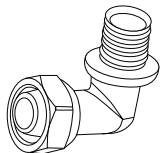
CROX STRAIGHT CONNECTOR SWIVEL	Product Code	Size/OD	Bag Qty
	P8016012	16-1/2"	10
	P8020034	20-3/4"	10
	P8025100	25-1"	10
CROX BENT CONNECTOR SWIVEL	Product Code	Size/OD	Bag Qty
	P8116012	16-1/2"	10
	P8120034	20-3/4"	10
No. 12 ELBOW	Product Code	Size/OD	Bag Qty
	P2000016	16	10
	P2000020	20	10
	P2000025	25	10
No. 14 FEMALE ELBOW	Product Code	Size/OD	Bag Qty
	P2416012	16-1/2"	10
	P2420034	20-3/4"	10
No. 24 EQUAL TEE	Product Code	Size/OD	Bag Qty
	P3000016	16	10
	P3000020	20	10
	P3000025	25	10
No. 26 BRANCH REDUCING TEE	Product Code	Size/OD	Bag Qty
	P3201620	20-16-20	10
	P3252025	25-20-25	10
	P3251625	25-16-25	10

Please reference product codes when ordering fittings.

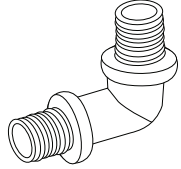
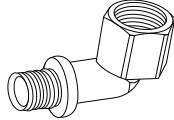
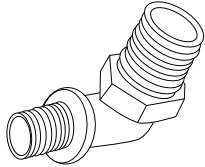
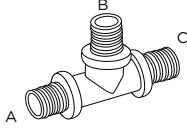
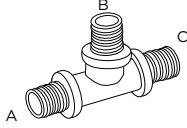
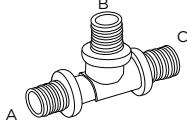
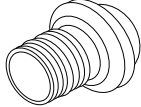
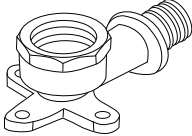
END REDUCING TEE	Product Code	Size/OD	Bag Qty
	P3202016	20-20-16	10
	P3252520	25-25-20	10
	P3252020	25-20-20	10
No. 61 STOPPER	Product Code	Size/OD	Bag Qty
	P5000016	16	10
	P5000020	20	10
	P5000025	25	10
HOSE PLATE	Product Code	Size/OD	Bag Qty
	P2616012	16-1/2"	10
No. 15BP FEMALE WINGBACK	Product Code	Size/OD	Bag Qty
	P2516012	16-1/2"	10
	P2520012	20-1/2"	10
	P2520034	20-3/4"	10
No. 19BP MALE WINGBACK	Product Code	Size/OD	Bag Qty
	P2516123	16-1/2" 65mm	10
	P2516124	16-1/2" 90mm	10
	P2516126	16-1/2" 150mm	10
CRIMP RING ASSEMBLY	Product Code	Size/OD	Bag Qty
	P9000016	16	20
	P9000020	20	20
	P9000025	25	100

Please reference product codes when ordering fittings.

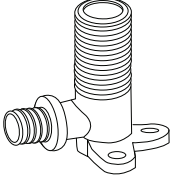


SLIDE FITTINGS

SLIDING SLEEVE	Product Code	Size/OD	Bag Qty
	S9400016	16	100
	S9400020	20	100
	S9400025	25	50
No. 1 STRAIGHT COUPLING	Product Code	Size/OD	Bag Qty
	S1000016	16	10
	S1000020	20	10
	S1000025	25	10
No. 1R REDUCING COUPLING	Product Code	Size/OD	Bag Qty
	S1002016	16-20	10
	S1002520	25-20	10
	S1002516	25-16	10
No. 2 FEMALE STRAIGHT CONNECTOR	Product Code	Size/OD	Bag Qty
	S1416012	16-1/2"	10
	S1420034	20-3/4"	10
No. 3 MALE STRAIGHT CONNECTOR	Product Code	Size/OD	Bag Qty
	S1616012	16-1/2"	10
	S1616034	16-3/4"	10
	S1620034	20-3/4"	10
	S1620012	20-1/2"	10
	S1625100	25-1"	10
No. 62 CROX STRAIGHT TAP CONNECTOR FI NUT	Product Code	Size/OD	Bag Qty
	S1716012	16-1/2"	10
	S1720034	20-3/4"	10
No. 63 CROX BENT TAP CONNECTOR FI NUT	Product Code	Size/OD	Bag Qty
	S2616012	16-1/2"	10
	S2620034	20-3/4"	10


Please reference product codes when ordering fittings.



No. 12 EZOW	Product Code	Size/OD	Bag Qty
	S2000016	16	10
	S2000020	20	10
	S2000025	25	5
No. 14 FEMALE ELBOW	Product Code	Size/OD	Bag Qty
	S2416012	16-1/2"	10
	S2420012	20-1/2"	10
	S2420034	20-3/4"	10
No. 13 MALE ELBOW	Product Code	Size/OD	Bag Qty
	S2316012	16-1/2"	10
	S2320034	20-3/4"	10
No. 24 EQUAL TEE	Product Code	Size/OD	Bag Qty
	S3000016	16	10
	S3000020	20	10
	S3000025	25	10
BRANCH REDUCING TEE	Product Code	Size/OD	Bag Qty
	S3201620	20-16-20	10
	S3252025	25-20-25	10
	S3251625	25-16-25	10
BRANCH AND END REDUCING TEE	Product Code	Size/OD	Bag Qty
	S3201616	20-16-16	10
	S3202016	20-20-16	10
No.61 STOPPER	Product Code	Size/OD	Bag Qty
	S5000016	16	10
	S5000020	20	10
	S5000025	25	10
No. 15BP FEMALE WINGBACK	Product Code	Size/OD	Bag Qty
	S2516012	16-1/2"	10
	S2520034	20-3/4"	10


Please reference product codes when ordering fittings.

No. 19BP MALE WINGBACK	Product Code	Size/OD	Bag Qty
	S2516124	16-1/2"-90mm	10
PROFILE BEND	Product Code	Size/OD	Bag Qty
	PF000016	16	10
	PF000020	20	10
	PF000025	25	10
PIPE CLIP (WITH NAIL) BLACK FOR PEX/PEX-AL/PERT	Product Code	Size/OD	Bag Qty
	0060816	16	100
	0060820	20	50
	0060825 (2 nails)	25	25

TOOLING

PIPE CUTTER		Product Code	Size
		50104	12-32mm

CRIMP TOOLING		Product Code	Size
		T0030016	Manual crimp tool 16mm
		T0030020	Manual crimp tool 20mm
		T0030025	Manual crimp tool 25mm
		T0031625	Crimp gauge 16-25mm
		RMMINI-K16,32	REMS Mini Kit PEX 16-20-25 with 2 batteries
			

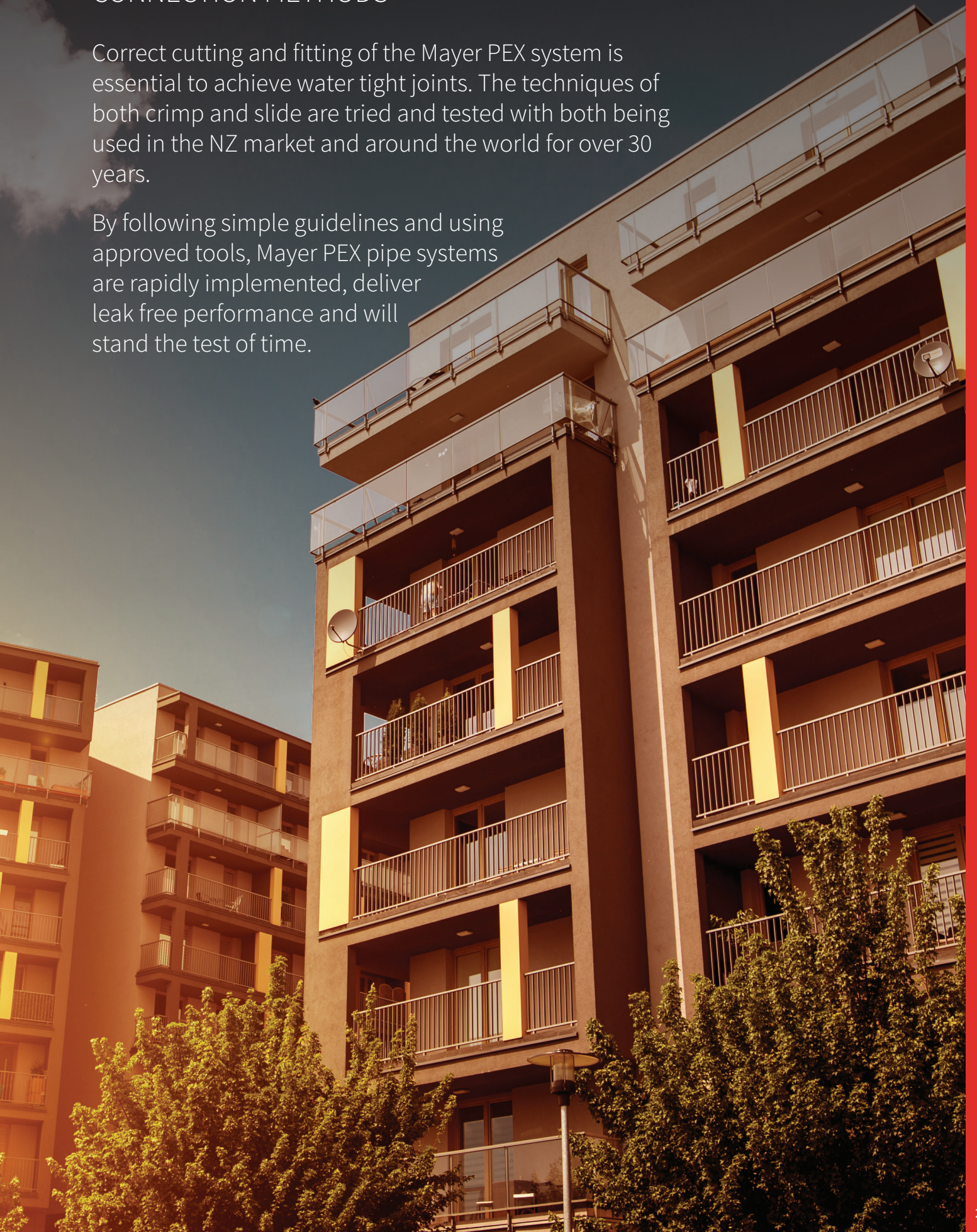
SLIDE TOOLING		Product Code	Size	
		Slide manual tool - only	T0041000	Range 16-25mm
		16-20mm jaws	T0041001	16-20mm
		25mm jaw	T0041002	25mm
		Expander tool - only	T0041003	Range 16-25mm
		16/20mm expander head	T0041004	16/20mm
		25mm expander head	T0041005	25mm

SECTION 4

CONNECTION METHODS

Correct cutting and fitting of the Mayer PEX system is essential to achieve water tight joints. The techniques of both crimp and slide are tried and tested with both being used in the NZ market and around the world for over 30 years.

By following simple guidelines and using approved tools, Mayer PEX pipe systems are rapidly implemented, deliver leak free performance and will stand the test of time.



GUIDELINES, TOOL USE & PREPARATION

Crimp Fittings



Cut Pipe:

The pipe should be cut square and any debris removed prior to installation.
NEVER USE A HACKSAW TO CUT PEX-a PIPE.



Insert Fitting:

Insert the barb of the fitting into the bore of the pipe. When the pipe is inserted to the correct depth and resting against the pipe stop, the pipe will be fully visible via the inspection ports in the base plate.



Crimp the Fitting:

Fully close the tongs of the tool and then release.



Gauge the Joint:

Double-check the integrity of the joint by ensuring the crimp gauge can pass over the diameter of the newly formed indentations in the crimp-ring.

GUIDELINES, TOOL USE & PREPARATION

Slide Installation



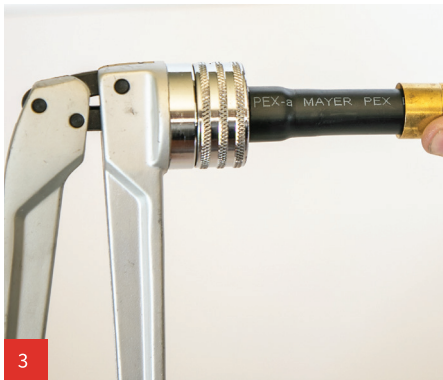
1

Cut pipe at right angle



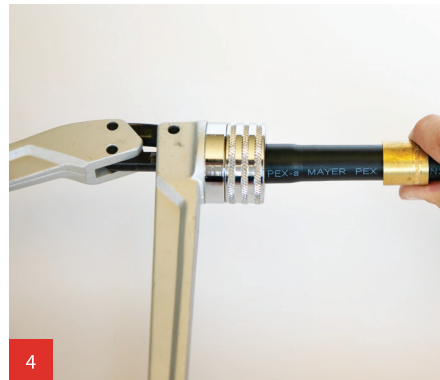
2

Slide on brass sleeve with chamfer facing toward fitting



3

Expand pipe



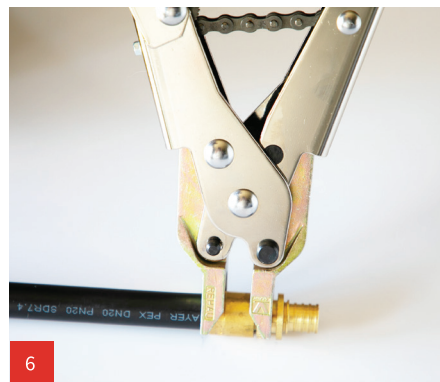
4

Open expander, rotate 30° and re-expand



5

Ensure fitting is inserted



6

Press sleeve fully closed to fitting shoulder into shoulder drop

SECTION 5

INSTALLATION

Specifically designed for simple and efficient installation, the Mayer PEX system is ideal for commercial and residential applications. Joint methods have been tried and tested, and different coloured pipes are utilised for easy identification of hot and cold water.





Mayer PEX-a must be installed in accordance with the codes and requirements of the local authority and in accordance with the Mayer PEX-a technical manual.

Some of the considerations that must form part of the installation include:

- Pipe limitations
- Pipe sizing
- Thermal expansion
- Exposure to heat
- Exposure to UV rays
- Clipping and supporting
- Installation underground and underfloor
- Fire protection
- Testing

PIPE LIMITATIONS

Maximum operating pressure 1000 kPa at 65°C.

PIPE SIZING

Check all pipe sizing before installation with the flow rate and pressure loss sheets to ensure correct pipe sizing.

BENDING PEX-a

Bending radius 8 x OD of the pipe and or the use of pre-formed bends can be used at 4 x OD of the pipe.

UV PROTECTION

All pipework exposed to UV must be protected in some manner. i.e. conduit, shielding, insulation etc.

HEAT TRACE

The maximum temperature of the heating source in contact with Mayer PEX-a pipe must not exceed 65°C; confirm specifications with the Heat Trace manufacturer.

THERMAL INSULATION

Mayer PEX has excellent thermal qualities - insulation may be required by regional authorities to further reduce heat loss. Mayer PEX should always be insulated in settings where freezing is possible to reduce the chances of damage in a freezing event.

UNDERGROUND

Mayer PEX-a pipes may be installed underground and underfloor in continuous run without joints or fittings in accordance with AS/NZS 3500.5.2000 Clause 2.13.2.

STORAGE & HANDLING

Mayer PEX-a pipes may be stored outside as long as they are protected from UV.

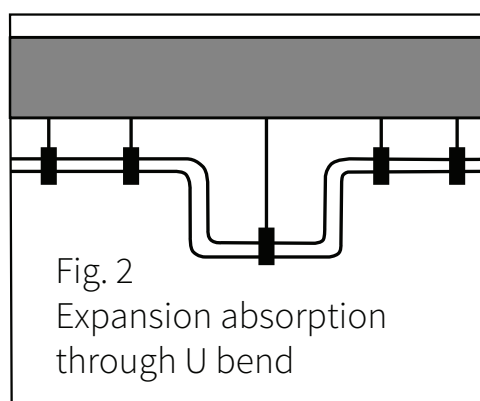
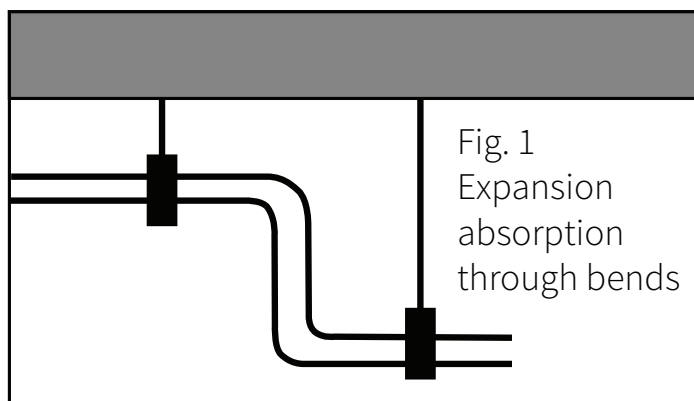
Please check product once received via any transport company.

Always protect the pipe and fittings from damage prior to distribution.

Do not drag the PEX-a pipe along the ground or over any surface, this may result in the end pipe being damaged and not suitable for the connection method, either Slide or Crimp.

LINEAR EXPANSION

Mayer PEX-a pipes will expand with heat so always allow for expansion. Anchor points can ensure the expansion occurs in the desired direction.



Ensure all clipping points with the exception of anchor points are sliding to allow thermal expansion to a bending leg or required loop.

CLIPPING & SUPPORTS

Pipe must be clipped as to Mayer PEX-a support/specifications using brand matched clips and munsen rings. Ensure all pipe work is installed to the NZ building code.

Maximum Spacing

Diameter	Horizontal	Vertical
16mm	600mm	1200mm
20mm	700mm	1400mm
25mm	750mm	1500mm



PRESSURE TESTING & FLUSHING

Testing must comply with AS3500 and local body requirements. Pressure test the system with water at 1500kPa for 30 minutes. Check for pressure leakage/drop. If leaks are incurred, remedy and re-test.

Ensure the pipe system is flushed with potable water so they are ready for use.

Note, if there is a requirement for cleaning/disinfection of the pipe system please contact Mayer NZ directly to ensure the correct dosing procedures are followed.

MAYER TEST RECORD

All test records must be sent to Mayer NZ within three months of the installation for the warranty to be valid. Please consult with your local Council as they may require a copy of the test results for their records.

UNCONTROLLED HEAT SOURCE - PEX-a PIPING MUST NOT BE USED ON THE FOLLOWING:

- Flow and returns from solar panels
- Wetbacks
- Relief drains
- Uncontrolled heat sources
- Hot water ring mains
- Pipes and fittings shall not be used within one metre of the inlet or outlet of a water heater

WATER QUALITY

When installing the Mayer PEX-a outside of standard controlled potable water condition, i.e. domestic bores and non-town supply water, ensure water quality is within pH levels of 6.5 and 8.5.

FIRE PROTECTION

PEX-a has been exhaustively tested by all of the major fire protection providers in NZ and Aquatherm recommend the following providers;



PEX-a PRESSURE LOSS TABLES

Cold Water at 20°C Water Density 998.2 kg/m³

L/S	16mm		20mm		25mm	
	(kPa/m)	(m/s)	(kPa/m)	(m/s)	(kPa/m)	(m/s)
0.07	0.64	0.66	0.23	0.42	0.08	0.30
0.08	0.81	0.75	0.28	0.49	0.10	0.32
0.09	0.99	0.85	0.35	0.55	0.12	0.35
0.10	1.19	0.94	0.42	0.61	0.14	0.39
0.12	1.65	1.13	0.58	0.73	0.19	0.49
0.16	2.75	1.51	0.66	0.98	0.33	0.60
0.18	3.40	1.70	1.20	1.10	0.39	0.70
0.20	4.10	1.89	1.44	1.22	0.48	0.80
0.24	5.70	2.27	2.00	1.47	0.65	0.90
0.28	7.53	2.64	2.63	1.71	0.86	1.10
0.30	8.53	2.83	2.98	1.84	1.01	1.17
0.34	10.71	3.21	3.73	2.08	1.27	1.33
0.36			4.14	2.21	1.40	1.41
0.38			4.57	2.33	1.55	1.49
0.40			5.01	2.45	1.70	1.57
0.42			5.52	2.57	1.85	1.65
0.44			5.71	2.64	1.94	1.72
0.46			6.46	2.82	2.18	1.80
0.48			6.98	2.94	2.35	1.88
0.50			7.52	3.07	2.53	1.96
0.52					2.72	2.04
0.54					2.91	2.12
0.56					3.11	2.20
0.58					3.32	2.27
0.60					3.53	2.36
0.62					3.74	2.43
0.64					3.96	2.51
0.66					4.19	2.59
0.68					4.48	2.67
0.70					4.67	2.75
0.72					4.91	2.82
0.74					5.16	2.90
0.76					5.42	2.98
0.78					5.69	3.06
0.80					5.95	3.14

PEX-a PRESSURE LOSS TABLES

Hot Water at 60°C Water Density 983.2 kg/m³

L/S	16mm		20mm		25mm	
	(kPa/m)	(m/s)	(kPa/m)	(m/s)	(kPa/m)	(m/s)
0.07	0.52	0.65	0.18	0.42	0.06	0.27
0.08	0.67	0.75	0.23	0.49	0.08	0.31
0.09	0.82	0.85	0.28	0.55	0.10	0.35
0.10	0.99	0.94	0.35	0.61	0.12	0.39
0.12	1.38	1.13	0.37	0.73	0.16	0.47
0.16	2.33	1.51	0.81	0.98	0.27	0.62
0.18	2.89	1.70	1.10	1.00	0.34	0.70
0.20	3.51	1.89	1.22	1.22	0.41	0.78
0.24	4.9	2.27	1.70	1.47	0.57	0.94
0.28	6.53	2.64	2.25	1.71	0.75	1.00
0.30	7.43	2.83	2.31	1.84	0.86	1.17
0.34	9.37	3.21	3.22	2.08	1.08	1.33
0.36			3.57	2.21	1.15	1.41
0.38			3.95	2.33	1.29	1.49
0.40			4.34	2.45	1.45	1.57
0.42			4.76	2.57	1.58	1.65
0.44			5.18	2.70	1.73	1.72
0.46			5.63	2.82	1.87	1.80
0.48			6.10	2.94	2.03	1.88
0.50			6.61	3.07	2.18	1.96
0.52					2.36	2.04
0.54					2.52	2.12
0.56					2.69	2.20
0.58					2.87	2.27
0.60					3.06	2.35
0.62					3.25	2.43
0.64					3.45	2.51
0.66					3.65	2.59
0.68					3.86	2.67
0.70					4.07	2.75
0.72					4.29	2.82
0.74					4.53	2.90
0.76					4.78	2.98
0.78					4.98	3.06
0.80					5.23	3.14



MAYER TEST RECORD

Test record for Mayer pipe installations where no pressure limitations are present.

Description of the Installation

Address:
.....
.....

Test pressure:
.....
.....

Time tested started:

Time tested finished:

Test period: (minutes)

Client:
.....
.....

Contractor:
.....
.....

Notes:
.....
.....
.....
.....
.....
.....
.....
.....

Signature/stamp:

Reg. installer number:

Mayer NZ must receive this information **within three months** of the installation for the warranty to be valid. Please consult with your local area Council as they may require a copy of the test results for their records.

An aerial photograph showing a large-scale construction project. The top half of the image is dominated by a vast, brown, excavated area with visible tire tracks and some construction equipment. A road with a median runs through the center, separating the construction site from a residential neighborhood on the right. The neighborhood consists of numerous houses with dark roofs and light-colored walls. In the bottom right corner, a small building is under construction, with its wooden frame visible. The overall scene is captured from a high angle, providing a comprehensive view of the site's layout and its proximity to existing infrastructure and housing.

SECTION 6

TRAINING & WARRANTY



TRAINING

Mayer NZ views training and technical support as an integral part of our installer support, ensuring our systems are as durable and long-lasting as possible. The quality of the installation determines how the system will perform. To assist in this process Mayer NZ runs a certified installer's training course for the installation and application of our Mayer PEX-a systems (Slide & Crimp).

Site support: Training also coincides with Mayer technical staff nationally supporting sites where and when required, also depending on the scope of the project/installation this may not be required and/or may require multiple visits. Refresher training may be undertaken at the beginning of each project. This number is then documented on the pressure test certificate and used as a reference to validate our comprehensive warranty.

THREE STAGES OF TRAINING

STAGE 1: JOINTING

Covering health and safety, tooling, pipe preparation and jointing methodology. Those completing the connection training process will be supplied with a certificate saying they have been trained to install the Mayer PEX-a Slide or Crimp connection methods. Training is designed for staff providing labour on site.

STAGE 2: INSTALLATION BEST PRACTICE

Covering the above and addressing temperature/pressure, bracketing/expansion, and pressure testing. The installation best practice training is valid for three years. Those trained will be issued with an Installer's card. This training is designed for senior tradespeople and third year apprentices to assist with their training and understanding of PEX-a systems.

STAGE 3: POST CONSTRUCTION QA

Covering Mayer's QA requirements warranty, pressure testing, and documentation.

Mayer NZ also offers support to engineers and designers in general installation inquiries in the suitability and application of the Mayer PEX-a systems. Training courses are held at our head office training centre in Auckland, our Christchurch centre and/or regionally conducted at the installer's facilities.



WARRANTY & LIFETIME STATEMENT

Mayer manufacture all pipes and fittings in accordance with Australian Standard AS/NZS 3500 and Mayer PEX-a Crimp Fittings and Slide fittings are manufactured to meet the strict requirements of AS/NZS 2537.2:2011 and AS/NZS 2537.5:2011, WaterMark approval by SAI Global. ASTM F2023-15 Chlorine test; Mayer confirm a 25 year guarantee of service life in accordance with the permissible working pressure/temperature/application suitability as directed by the Mayer technical product manual. Within the scope of this, Mayer will supply/replacement pipe and fittings if damages are traceable to materials faults and defects. The system is designed for a 50 year service life, and guaranteed not to leak for 25 years.

LIABILITY WARRANTY

Furthermore within the scope of this, Mayer gives a 25 year guarantee which compensates for material damages to third persons, for investigation, removal, replacement, acceptance, dismounting or laying bare of all defective goods.

Mayer guarantee is on;

- The correct joining methods (Slide & Crimp) using only Mayer NZ certified tooling and devices - please contact Mayer NZ if unsure.
- Installation of pipe and fittings are certified Mayer fittings and the installation completed by registered Mayer installers and adherence to Mayer technical rules and guidelines for correct installation principles.

LIMITS OF LIABILITY - MAYER NZ DISTRIBUTORS AQUATHERM NZ - GENERAL INSURANCE COVER

- Maximum general insurance cover NZD\$10,000,000.00

WARRANTY DATA

Installation address:

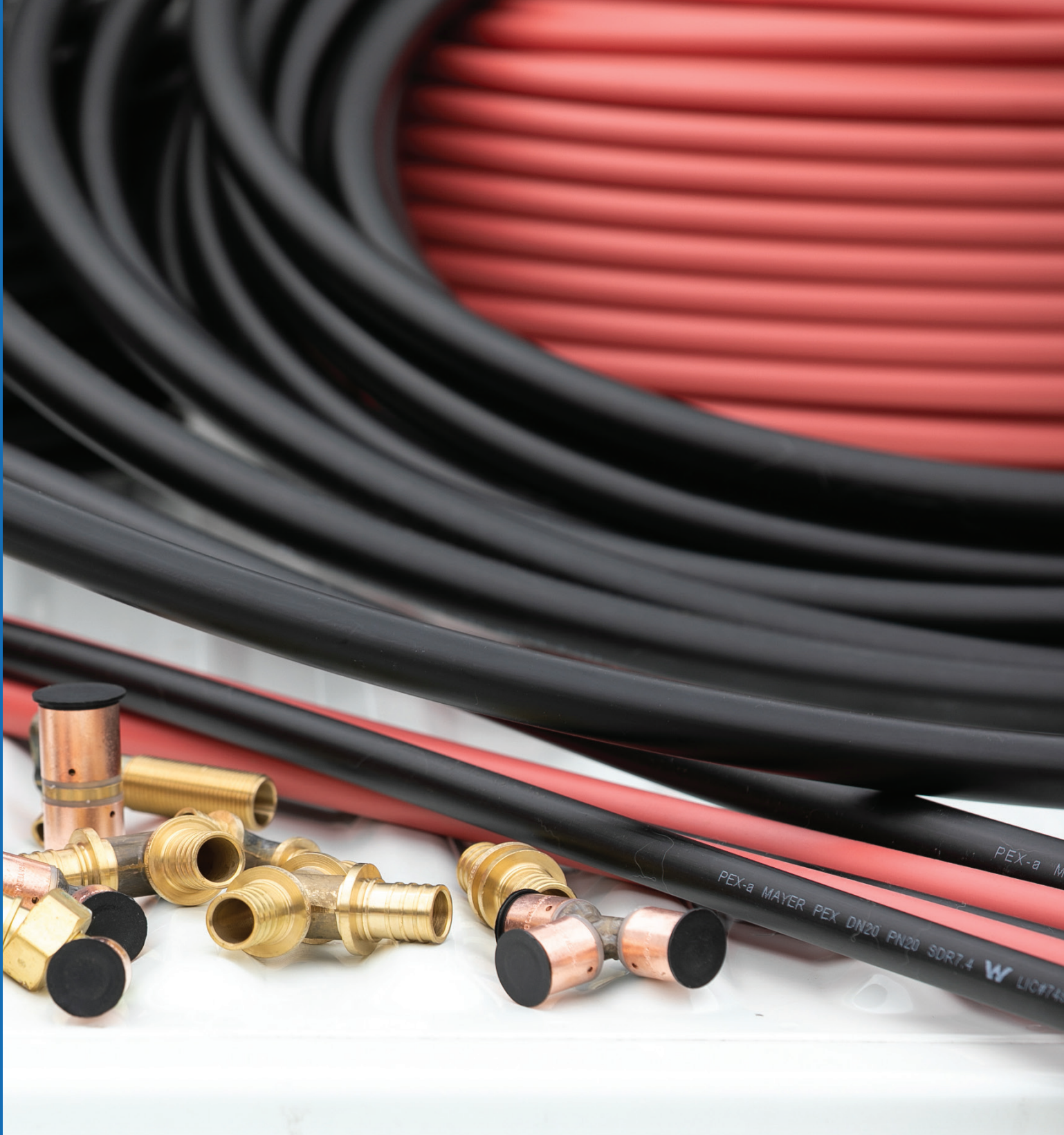
Description of installation:

Contractor name:..... Signature:

Date of completion:..... Mayer installer number:

This warranty must be fully completed, signed and returned with the completed test sheet **within three months of the completion** of the project installation to the New Zealand agent.

Mayer NZ
PO Box 99393, Newmarket, Auckland, New Zealand
Ph: 09 570 7204
Email: info@mayernz.co.nz



Mayer NZ agents: Aquatherm NZ Ltd

09 570 7204

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