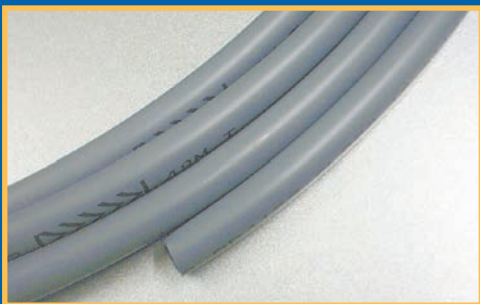


iPLeX **Pro-fit**[®]

Polybutylene Plumbing System Installation Guidelines



It's time to have a good look at the IPLEX Pro-fit® hot and cold water system



- Flexible Polybutylene (PB) pipe
- 18mm & 22mm
- 5m lengths
- 25m or 50m coils



- Pro-fit® high integrity fittings



- Crimping tool & calliper gauge

That's all – no brazing, soldering, gases, silver oxides or fluxes. No lugging heaps of gear around or going back for forgotten bits and pieces. That means substantial savings on equipment and time.

INTRODUCTION

This technical manual details features and installation aspects of the three ranges of IPLEX Pro-fit® Polybutylene (PB) pipes and fittings system:

IPLEX Pro-fit® PB Hot and Cold Water

– Grey Pipe

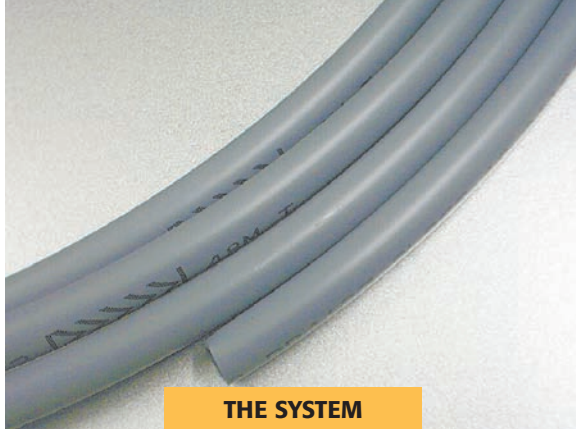
IPLEX Pro-fit® PB Recycled Water

– Purple Pipe

Fittings and tools for all three pipe systems are identical.

The IPLEX Pro-fit® system meets the requirements of Australian Standard AS/NZS 2642 Parts 2 & 3. The system is intended for use by licensed plumbing tradesmen who are used to working in accordance with accepted plumbing practice and the Australian/New Zealand National Plumbing and Drainage Standard AS/NZS 3500.

IPLEX Pro-fit® offers an integrated system that has been well proven around the world and throughout Australia. IPLEX Pro-fit® offers a system that is flexible enough to be bent by hand, is extremely light weight, offers corrosion resistance, and eliminates water hammer noise. In particular, no brazing or soldering is necessary. When installed by a licensed tradesman, the system has proven to be both high quality and economical to use.



Pipe

The base material for IPLEX Pro-fit® PB pipe is coloured grey to inhibit fungal growth in the potable water within the pipe.

IPLEX Pro-fit® PB Recycled Water pipe is produced from a specially compounded purple polybutylene resin and the pipe extruded from it carries the print message WARNING: RECYCLED OR RECLAIMED WATER – DO NOT DRINK. This product can be used when a second non-potable water supply is available for toilet flushing etc.

IPLEX Pro-fit® PB Rain Water pipe is produced from a specially compounded green polybutylene resin and the pipe extruded from it carries the print message RAINWATER. This product has been developed to connect your rainwater tank to household appliances, including washing machines and toilet cistern.

Polybutylene pipe must be physically protected from direct sunlight to avoid long term UV degradation.

PB pipe has the advantages of being lightweight, flexible and easy to install. It has the ability to withstand high pressures and temperatures and complies with the requirements of Australian Standard AS/NZS 2642 Part 2 Pipes and Part 3 Fittings. The result is a product that is suitable for hot and cold potable water distribution when installed in accordance with the parameters set out in the Australian Standards and the National Plumbing and Drainage Standard – AS/NZS 3500.

Table 1.1 Dimensions of Polybutylene pipe AS/NZS 2642 Class 16

Nom. outside diameter	Mean bore
18mm	12.5mm
22mm	17.6mm



Fittings

IPLEX Pro-fit® fittings are specially designed and engineered to complement the IPLEX Pro-fit® PB pipes. The IPLEX Pro-fit® PB pipes and fittings system has a comprehensive range of fittings that are suitable for general plumbing use. Each box contains an installation instruction leaflet, which must be followed.

Table 1.2 Dimensions of IPLEX Pro-fit® fittings

Nom. outside diameter	Mean bore
DN18 – 18 mm	9.0 mm
DN22 – 22 mm	14.5 mm

DR Brass Fittings

IPLEX Pro-fit® DR brass fittings are fully dezincification resistant to AS2345 and are precision CNC machined. DR brass contains less than 15% zinc, or has been heat treated or chemically enhanced to make it resistant to the loss of zinc i.e. dezincification resistant. Brass that is not dezincification resistant can lose its zinc content leaving a residue of spongy or porous copper. IPLEX Pro-fit® DR brass fittings can be used in the ground in most situations.

Copper Crimp Sleeves

All IPLEX Pro-fit® DR brass fittings have an annealed copper crimp sleeve with a pipe depth inspection window to provide visible assurance that the pipe has been pushed fully home.



Crimping Tools

The crimping tools are precision instruments engineered to ensure a simple, effective joint. The principle of this jointing method has been well proven in many engineering applications in Australia. It is extensively used around the world for gas, hot and cold plumbing and in-floor heating.

With crimping tools, care should be taken to ensure that moving parts are not damaged. Refer to individual tool instructions for maintenance and correct use. Calliper gauges are supplied with all tools to check that the copper ring has been properly crimped. Only use the correct IPLEX tools to crimp the IPLEX Pro-fit® PB pipes and fittings system.

Do not attempt to crimp the IPLEX Pro-fit® system with any other type of tool. IPLEX Pro-fit® PB pipe and fittings offer the plumber an integrated system that has been well proven around the world.

Some of the advantages are:

- Light weight and flexible – for ease of assembly.
- Simple jointing system – quick assembly, high integrity.
- No brazing, soldering, gases, silver solders or fluxes.
- No electrolysis.
- Corrosion resistant – for aggressive conditions.
- Little resale value – minimises theft.
- Long lengths, therefore less joints and fittings – for ease of assembly.
- Tamper proof jointing system – once the system is crimped it cannot be pulled apart.
- Virtually eliminates water hammer noise – reduced call backs.

GENERAL INSTALLATION

Installation should be carried out in accordance with the guidelines detailed in this manual. However, the installer should also be aware of Local Authority codes and by-laws relevant to plumbing, which take precedence over these guidelines in any area where they are at variance. The requirements of the National Plumbing and Drainage Standard (AS/NZS 3500) must also be adhered to (AS/NZS 3500 Parts 2, 4 & 5).

The IPLEX Pro-fit[®] system may also be installed below ground in accordance with AS/NZS 3500 Parts 1 & 4, and Local Authority codes and by-laws.

BEFORE INSTALLATION

1. Store PB pipe under cover where it will not be exposed to direct sunlight.
2. Do not use pipe which has:
 - Cuts, deep scratches or gouges.
 - Kinks or crushed sections.
 - Evidence of grease, oil, tar etc.
 - Noticeable colour fading of pipe.All damaged sections should be cut out and replaced.

JOINTING PROCEDURES

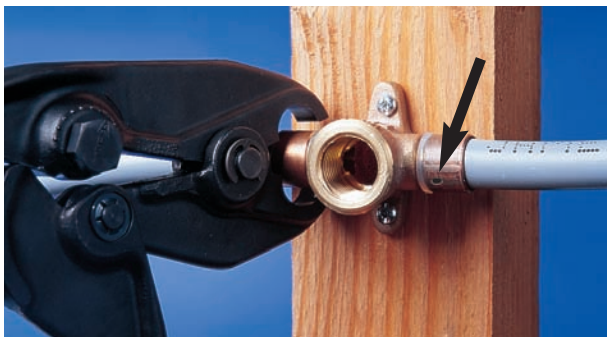
Crimped connections

Step 1 Cut pipe squarely with the Iplex pipe cutter, Iplex Part No REMSPIPECUTTER, PBCUTTER or FK203064700. Do not use a hack saw.



Step 2 Slide the pipe onto the fitting until it stops. If fitted correctly, the pipe should be visible through both the copper crimp sleeve windows (arrowed below).

Ensure that the copper crimp sleeve is firmly attached to the plastic retainer ring. If the copper crimp sleeve has moved away from the plastic retainer ring, push it back onto the plastic retainer ring by hand before crimping.



JOINTING PROCEDURES *continued*

Step 3 Open crimp jaws all the way apart. Position crimp jaws squarely over the copper crimp sleeve. i.e at 90° to the pipeline. For hand tools ensure that the full jaw width of the tool makes contact with the copper crimp sleeve when crimping. For power tools crimp the jaws over the full width of the copper crimp sleeve. Avoid crimping the plastic retainer ring. Close the crimp tool jaws fully over the copper crimp sleeve. Open the crimp tool jaws and remove the crimp tool from the crimped fitting.



Step 4 Use the Iplex calliper gauge supplied with the tool to check each and every joint. Gauge tips must fit over the crimped copper sleeve at 90° to the tool jaw split line.

Permanently tight connections can only be guaranteed with Iplex approved tools. The tools have to be protected against dirt and damage, and should be cleaned regularly.



JOINTING PROCEDURES Continued

Under-crimping

Under-crimping (i.e. when the gauge will not pass over copper ring) can occur when:

1. The crimping tool has not been completely closed.
2. The crimping tool is out of adjustment (readjustment should be made in accordance with the instructions supplied with the tool).

How to avoid a faulty connection

The IPLEX Pro-fit[®] pipes and fittings system is simple and effective to use when executed in accordance with the jointing procedures. However, if sufficient care is not taken, the consequences can be improper sealing, and a potential for leaks.

The most likely causes of faulty connections are:

1. Copper crimp sleeve has moved away from the body of the fitting.
2. The crimping tool has not been centred over the copper crimp sleeve, and thus the sleeve has only been partially crimped.
3. The pipe has not been pushed fully home on to the fitting when the crimp was made.
4. Pipe has not been cut squarely.
5. Tools are poorly maintained or damaged.

If an incorrect joint is detected :

- Cut out the defective joint and replace with new IPLEX Pro-fit[®] fitting.

If the pipe is kinked or damaged:

- The faulty section of the pipe should be replaced.

JOINTING PROCEDURES Continued

Iplex PRO-FIT® PB pipe to copper pipe, steel pipe systems or appliances.

Threaded fittings – brass or copper threaded fittings should not be used with other non-metallic threaded fittings. Use an approved sealant to seal all threaded fittings.

- When using brazing tails to connect copper pipe or metal fittings to IPLEX Pro-fit® PB pipe, always braze the brazing tail to the copper pipe or metal fittings first and allow it to cool before assembling the IPLEX Pro-fit® PB pipe.

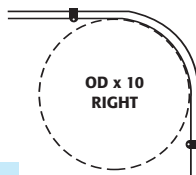
At least four ribs should be shown on the brazing tails to allow for an effective joint to be made. It is recommended that silver brazing alloys be used and that all flux deposits are removed once the joint has been made. Excessive heat can damage IPLEX Pro-fit® PB pipes. When brazing copper pipes or fittings near IPLEX Pro-fit® PB pipes it is recommended a damp rag be used to protect the pipes.

Pipe bending

Due to the pipe's inherent flexibility and its availability in 50m coils for 18mm and 22mm pipe, polybutylene can be bent easily around obstructions or through studs and plates with minimum use of fittings. Care should be taken not to kink or damage the pipe. It is recommended that the minimum bending radius be 10 times the outside diameter of the pipe. If this is not possible an IPLEX Pro-fit® elbow should be used. If for any reason the pipe is kinked or damaged, the faulty section should be replaced.

Table 1.3 Minimum bending radius	
18mm Pipe	180mm min. radius
22mm pipe	220mm min. radius

Fig 1.1 Minimum bending radius



INSTALLATION

Hot water installation

1. It is recommended that the IPLEX Pro-fit® system be installed in accordance with the manufacturers installation requirements, AS/NZS 3500 Part 4 and any local by-laws with particular reference to the pressure and temperature relationship as described in AS / NZS 2642 and detailed in Table 1.4.

Table 1.4 Pressure rating of pipes according to pipe material temperature (AS/NZS 2642)

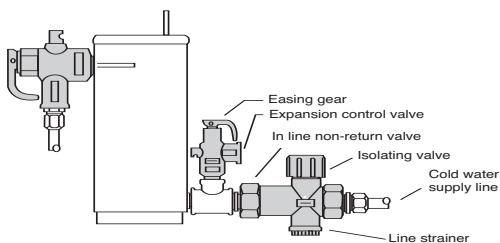
WORKING PRESSURE. MPa							
Working temp	20C	40C	50C	60C	70C	80C (25 years)	95C (10 years)
Max working pressure	1600 kPa	1370 kPa	1200 kPa	1050 kPa	880 kPa	740 kPa	490 kPa

2. The valves used in the installation of water heaters should comply with the requirements as laid out in AS/NZS 3500 Part 4, Tables 4.1 & 4.2.

The required set pressure of valves i.e. expansion control valves and inlet pressure control valves shall be:-

- a. as specified by the water heater manufacturer; or
- b. determined from the set pressure of the temperature and pressure relief valve supplied by the water heater manufacturer, with reference to AS/NZS 3500 Part 4, Table 4.2.

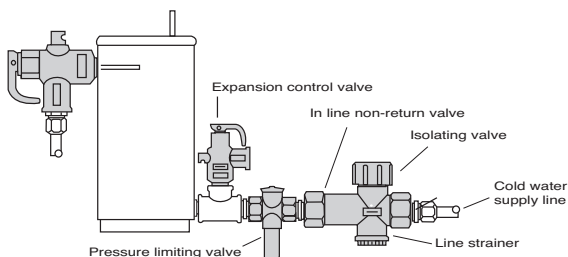
Fig 1.2 Typical installation mains pressure storage water heater with expansion control valve



INSTALLATION Continued

3. The use of tempering valves is required in some capital cities and provincial areas. Check with your Local Authority.

Fig 1.3 Typical installation of mains pressure storage water heater expansion control valve and pressure limiting valve



4. The water heater thermostat must be set to supply hot water at temperatures less than 80°C.

Please note:

In accordance with AS/NZS 3500 Parts 1 & 4, copper pipe should be used within one metre of the outlet of a hot water heater.

Before connecting PB to instantaneous gas hot water systems, check with the hot water heater manufacturer for any specific additional requirements.

PB should not be used in continuously circulating hot water plumbing loops operating above 60°.

Concealed pipe work

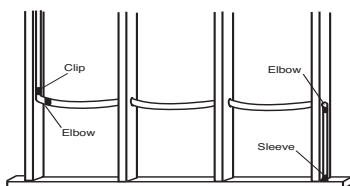
All concealed pipe work should be installed in accordance with AS/NZS 3500 Parts 1 & 4 or Local Authority requirements.

INSTALLATION Continued

Timber framework

Holes drilled in studs or plates etc. shall be accurately sized to allow longitudinal movement of the pipe through the hole with a minimum clearance of 2mm on the pipe's diameter. A 25mm splade bit is suitable for both sizes of pipe. Please note that the use of silicon in the holes is not required.

Fig 1.4 Indicates fixed point



Allow 10mm slack per metre of PB pipe
for thermal movement

Metal framework

Holes drilled in metal studs or plates etc shall be accurately sized to enable suitable grommets, lagging or a short sleeve of oversized pipe to be firmly secured in the framework. This is to allow free movement of the pipe through the grommet, lagging or sleeve without any direct contacts between the pipe and the framework.

Thermal expansion

As the lineal thermal expansion rate of PB pipe is approximately 13mm for every 10°C temperature change for each 10 metres of pipe, care must be taken with the installation to allow for this potential movement of the pipe. PB pipe should not be pulled tight between fixed points as this will prohibit movement if the pipe contracts, and result in excessive tensile forces on joints and fittings. Allow 10mm slack per metre of pipe. Expansion can usually be accommodated by the pipe's flexibility.

INSTALLATION Continued

Chases, ducts or conduits

As per AS/NZS 3500 Parts 1 & 4 or Local Authority requirements.

Pipes in chases shall be continuously wrapped with an impermeable flexible material.

Ducts shall be fitted with removable covers.

Pipes embedded in walls or floors shall comply with the requirements of the appropriate building authority and/or local regulations.

Under concrete slabs

PB pipe may be installed under concrete slabs in accordance with AS/NZS 3500 Parts 1 & 4, or Local Authority requirements.

When PB penetrates the slab it shall be at right angles to the surface of the slab and shall be lagged with an impermeable, flexible plastics material of not less than 6mm thickness for the full depth of the slab penetration ie PVC conduit or pressure pipe.

Clipping and supports

The use of pipe clips should be in accordance with AS/NZS 3500 Parts 1 & 4 and in keeping with good plumbing practice. The following table is based on AS/NZS 3500.

Corrosive environment

As per the requirements of AS/NZS 3500 and/or Local Authority or Regulatory requirements, PB pipe and fittings installed in potentially corrosive environment must be protected, i.e. marine environment.

INSTALLATION Continued

Table 1.5 The use of pipe clips

Nom. pipe diameter	Horizontal or graded pipes	Vertical pipes
18mm	600mm	1200mm
22mm	700mm	1400mm

Clips on fittings should only be required where the fittings are obviously stressed. NOTE – the IPLEX Pro-fit® system’s major fixing benefit is that it is flexible and when installed has the ability to move and flex. The installation of pipe clips, brackets etc. is only to give the pipe support and an acceptable appearance. The pipe clip must not constrain the pipe diameter and should allow longitudinal movement of the pipe. We recommend you use the Iplex Pipelines range of clips.

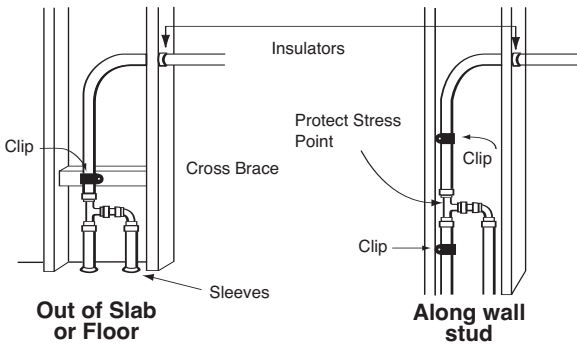


Fig 1.5 Pipe clipping

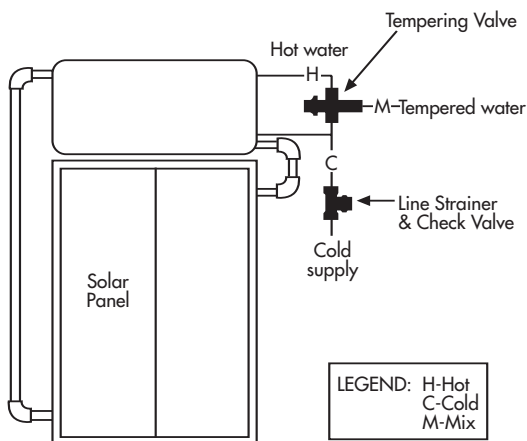
Solar Hot Water

As solar hot water systems are an uncontrolled heat source, temperatures in excess of 75°C are frequently experienced.

To ensure that the supply temperature is maintained well within the normal operating temperatures of polybutylene pipe it is recommended that the following typical installation procedure be adopted.

- 1) In addition to the normal valves required for the system, an adjustable tempering valve (e.g. RMC Heatguard Solar HP or HF or similar) should be installed directly at the solar water heater as per the following diagram.
- 2) As per AS/NZS 3500 Part 4.2, one metre (1mtr) of copper pipe is then required before connecting to polybutylene pipe. The copper pipe can be used to penetrate the roof into the roof cavity.
- 3) The tempering valve can then be adjusted to its maximum temperature (up to 65°C depending on model) by following the manufacturer's instructions. This is typically done by removing the adjusting knob locking device and resetting the temperature.
- 4) Individual tempering valves are then fitted as required to control water supply temperature to the wet areas in accordance with AS/NZS 3500 Part 4.2.

THERMOSYPHON SOLAR HOT WATER



TESTING & INSPECTION PROCEDURES

Testing procedures should be as per the requirements of AS/NZS 3500 part 1,4 & 5 and/or any Local Authority or Regulatory requirements.

While the system is under test, all joints and fittings should be inspected for leaks and to ensure that the pipe has been fitted correctly and crimped in accordance with IPLEX Pro-fit® Polybutylene Plumbing System Installation Guidelines.

FIRE & EXCESSIVE HEAT

Keep PB pipe a minimum of 500mm from sources of high heat such as heating appliances, flues, vents etc.

Keep PB pipe 1500mm from slow combustion type stoves, vents and flues used to heat domestic hot water, wet back boilers etc.

PB pipe should not be positioned closer than 150mm to gas or central heating vents, nor located in any confined space containing appliance vents or flues.

PB pipe and fittings are designed to meet the normal operating temperatures of domestic hot and cold water, however, in the case of uncontrolled heat input such as slow combustion stoves or room heaters with water heating coils, wet back boilers or the like, and in the interest of safe water temperature to protect the user, tempering valves must be considered. The primary flow and returns on these type of appliances should not be installed in PB pipe and fittings.

Where PB pipe is installed and penetrates fire resistant construction, the fire resistant integrity of the construction must be retained. Refer to the local building code.

PROTECTION

If a system is to be exposed to sunlight beyond normal construction periods, the pipe should be protected from sunlight (UV) damage.

Lineal thermal expansion rate for PB pipe is approximately 13mm/10°C temperature change for each 10 metres of pipe.

Leave 300mm minimum space between PB pipe and recessed electric light fittings, as light fittings are normally changed on a regular basis.

LIMITATIONS OF PB PIPE

When:

- Used as part of a water meter assembly or vertical riser.
- Used beyond the inlet stop valve to any water heater.
- Used where subject to direct sunlight.
- Used in areas subject to contamination by petroleum products.
- Used within one metre of the outlet of, or between isolation valve and inlet of any water heater.
- Water temperature / pressure combinations should not exceed the limitations as given in Table 1.4.
- Used on continuously circulating hot water loops operating above 60°C.
- Buried underground and subject to flooding with a termite treatment.

PRODUCT RANGE

Product	Iplex Code	Minimum Order Quantity	Description
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POLYBUTYLENE (PB) TUBE

PB18E	10/bundle	18mm x 5 metre Lengths
PB22E	5/bundle	22mm x 5 metre Lengths
PB18ELAG	10/bundle	18mm x 5 metre Lengths - lagged
PB22ELAG	5/bundle	18mm x 5 metre Lengths - lagged
PB1825	1	18mm x 25 metre Coil
PB1850	1	18mm x 50 metre Coil
PB2225	1	22mm x 25 metre Coil
PB2250	1	22mm x 50 metre Coil



PB RECYCLED WATER PIPE (PURPLE)

PB18EL	1	18mm x 5 metre lengths
PB22EL	1	22mm x 5 metre lengths
PB1850L	1	18mm x 50 metre coil PB
PB2250L	1	22mm x 50 metre coil PB



STRAIGHT JOINER No 1

P501818	20	18mm PB
P502222	10	22mm PB



REDUCING JOINER No 1R

P512218	20	22mm x 18mm PB
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MALE ADAPTOR No 3

P521815	20	18mm PB x 15mm BSP
P521820	20	18mm PB x 20mm BSP
P522220	10	22mm PB x 20mm BSP



FEMALE ADAPTOR No 2

P531815	10	18mm PB x 15mm BSP
P532220	10	22mm PB x 20mm BSP



COPPER TO PB FLARED ADAPTOR

P541815	10	18mm x 15mm PB to CU adapt
P542220	10	22mm x 20mm PB to CU adapt

PRODUCT RANGE Continued

Product	Iplex Code	Minimum Order Quantity	Description
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FEMALE SWIVEL CONNECTOR



P671815	20	18mm PB x 15mm BSP Nut
P672220	10	22mm PB x 20mm BSP Nut

EQUAL BENDS No 12



P571818	20	18mm Bend PB
P572222	10	22mm Bend PB

FEMALE SWIVEL BEND No 14



P681815	10	18mm PB x 15mm BSP
P682220	5	22mm PB x 20mm BSP

WING BACK ELBOW (MALE) No 19BP



P601815	5	18mm x 15mm BSP Lugged
P601815100	5	18mm x 15mm BSP x 100mm Thread Lugged
P601815200	1	18mm x 15mm BSP x 200mm Thread Lugged
P602220100	5	22mm x 20mm BSP x 100mm Thread Lugged
P602220200	1	22mm x 20mm BSP x 200mm Thread Lugged

WING BACK ELBOW (FEMALE) No 15BP



P621815	10	18mm PB x 15mm BSP Lugged
P621820	10	18mm PB x 20mm BSP Lugged
P622220	5	22mm PB x 20mm BSP Lugged

EQUAL TEES No 24



P55181818	10	18mm x 18mm x 18mm PB
P55222222	10	22mm x 22mm x 22mm PB

PRODUCT RANGE Continued

Product	Iplex Code	Minimum Order Quantity	Description
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REDUCING TEES



P5622218	10	22mm x 22mm x (18mm) PB
P56181815	10	18mm x 18mm x (15mm) PB
P56181822	10	18mm x 18mm x (22mm) PB
P56221822	10	22mm x 18mm x (22mm) PB
P56221818	10	22mm x 18mm x (18mm) PB (denotes branch size)

COPPER TO PB TEE



P661815	10	18mm PB x 15mm Copper
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WING BACK TEE No 30



P651815	5	18mm PB x 15mm BSP
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BRAZING TAILS – (MALE)



P631815	50	18mm PB x 15mm Copper
P632220	20	22mm PB x 20mm Copper

BRAZING TAILS – (FEMALE)



P731815	30	18mm PB x 15mm Copper
P732220	20	22mm PB x 20mm Copper

HOSE PLATE



P4918	10	18mm PB x 15mm BSP
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PRODUCT RANGE Continued

Product	Iplex Code	Minimum Order Quantity	Description
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CRIMP RINGS



P691813	50	18mm Crimp Ring PB
P692213	25	22mm Crimp Ring PB

TEST PLUGS



PTP18	50	18mm PB
PTP22	25	22mm PB

TUBE CLIPS



P9018M1	Pk 100	18mm with Masonry Nail
P9018TK1	Pk 100	18mm with Tek Screw
P9018TS1	Pk 100	18mm with Twist Shank Nail
P9022M2	Pk 100	22mm with Masonry Nail
P9022TK2	Pk 100	22mm with Tek Screw
P9022TS2	Pk 100	22mm with Twist Shank Nail
P9018AC1	Pk 100	18mm with Anchor Nail
P9022AC2	Pk 100	22mm with Anchor Nail

BREECH RANGE



P8810300F	1	PB Sink/bath set 300mm floor entry
P8810200F	1	PB Sink/bath set 200mm floor entry
P8810300S	1	PB Sink/bath set 300mm side entry
P8820150F	1	PB Shower 150mm floor entry
P8820200F	1	PB Shower 200mm floor entry
P8820150S	1	PB Shower 150mm side entry
P8820150T	1	PB Shower 150mm top entry
P8820200T	1	PB Shower 200mm top entry

PRODUCT RANGE Continued

Product	Iplex Code	Minimum Order Quantity	Description
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REMS AKKU TOOL & ACCESSORIES



REMSAKKUTOOL	REMS AKKU Crimping Tool with Li-ion Battery
REMSBATTERYLI	REMS AKKU Battery Li-ion 14V
REMSBATTERY	REMS Battery NI-CD (for old-style tool)
REMSCRIMP16	16mm REMS K1/K2/P18 Crimp Jaw
REMSCRIMP22	22mm REMS K1/K2 Crimp Jaw

REMS MINI TOOL & ACCESSORIES



REMMINITOOL	REMS Mini Press Crimping Tool with Li-ion Battery
REMSMINIBATTERY	REMS Mini Battery Li-ion 1.3AH
REMSMINICHARGER	REMS Mini Li-ion/NI-CD Rapid Charger
REMSMINICRIMP16	16mm REMS K1/K2/P18 Crimp Jaw
REMSMINICRIMP22	22mm REMS K1/K2 Crimp Jaw

I-PRESS MINI TOOL & ACCESSORIES



IPRESSTOOL	I-Press Mini Press Crimp Tool with Li-ion Battery
IPRESSTOOLKIT	I-Press Mini Press Crimp Tool with Li-ion Battery (c/w K16 & K20 heads)
IPRESSBATTERY	I-Press Mini Battery Li-ion 18V
IPRESSCHARGER	I-Press Mini Charger
IPRESSCRIMP16	16mm I-Press K1/K2/P18 Crimp Jaw
IPRESSCRIMP22	22mm I-Press Pro-fit® Crimp Jaw

CRIMPING TOOLS



PCR18	1	18mm PB Tool
PCR22	1	22mm PB Tool

CRIMPING TOOLS REPLACEMENT PARTS



ALBAPARTS916	1	Contains: Cam bolt c/w M10 nyloc nut Handle pin c/w starlock washer Oversize roller Pivot pin c/w E type clips
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PIPE CUTTERS



PBCUTTER	1	18mm & 22mm PB Cutter
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K203064700
Pipe Cutting Tool
for 16mm, 20mm
and 25mm



CUSTOMER'S NEEDS CHANGE... PLUMBING MATERIALS CHANGE

PB was first discovered in the early 1970's where it was quickly identified as an ideal material for hot and cold water plumbing.

It has gained wide acceptance because it meets today's needs in modern homes:

- Mixer taps
- Multiple high pressure appliances
- Lots of variation in temperatures
- Several bathrooms and ensues



DISCLAIMER

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Pipelines



IPLEX

Pipelines

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