

# DuoPEX Water Manual



The DuoPEX Water pipe and fitting system is designed for 16mm - 63mm potable hot water, cold water, and heating applications.

DuoPEX Water is a highly reliable alternative for the professional plumber which makes any job quicker and easier.

The DuoPEX Water system is a composite/multi-layer pipe and fittings range, manufactured to comply with AS 4176 and carries licenses for hot and cold water applications.

Installation is subject to the requirements of the applicable regulatory authority, the National Construction Code Volume Three – Plumbing Code of Australia, associated reference standards as applicable at the time and AS/NZS 3500.

### Advantages of the DuoPEX Water System

1. Form stability during installation, for example in a curve
2. Low thermal conductivity level
3. Light weight during transport and installation
4. Thermal expansion is lower than that of other pipes
5. Lower pressure loss thanks to the smooth inner layer
6. Suitable for Hydronic Heating

Installation should be carried out in accordance with accepted plumbing practices and instructions provided 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 vary.

This manual is for the introduction of complete water pipe and fittings with sizes ranging from 16mm to 63mm. This system can also be used in conjunction with the Auspex potable water system in sizes ranging from 16mm to 32mm. Use recommended Auspex to DuoPEX Water conversion adaptors or approved threaded connections.

To enable adaption from multi-layer pipe to Auspex (PEX) pipe a series of conversion couplings are available, e.g. 32mm multi-layer pipe to 25mm Auspex pipe.

### Environment

We recognise that environmental impacts are increasingly important to our stakeholders and to society more broadly. RWC actively manages its consumption of energy, water and raw materials for manufacturing and packaging to mitigate our impact on the environment.

RWC supports local and global efforts to combat climate change and strives for a sustainable low carbon future. Our efforts are aligned with the UNFCCC Paris agreement which is focused on reducing emissions to limit global warming to a 1.5°C increase from pre-industrial level.



The system is designed to use the same battery tools and DuoPEX jaws that are used on the DuoPEX Gas system 16mm to 63mm.

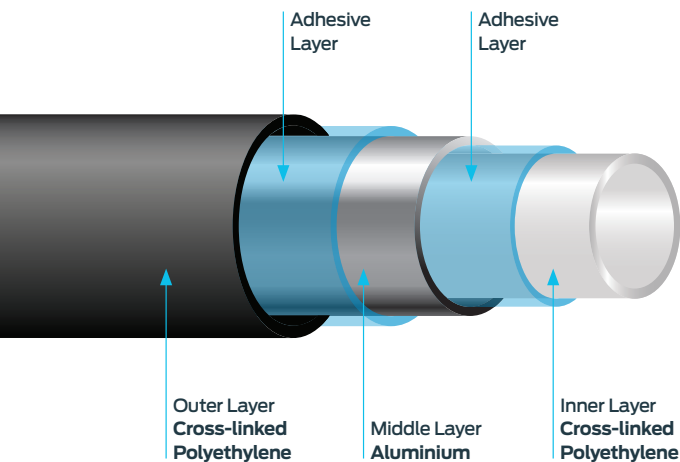
# DuoPEX Water Pipe

DuoPEX Water pipe is a multi-layer or composite system, designed to be used in potable hot and cold water systems and can also be used for heating purposes.

DuoPEX Water pipe consists of:

- 1. An inner layer of cross-linked polyethylene (PEX)
- 2. An aluminium layer
- 3. An outer layer of cross-linked polyethylene (PEX)
- 4. Inner and outer adhesive layers

DuoPEX Water pipe in sizes 32mm to 63mm has a black outer layer, which is in keeping with the Auspex hot and cold water pipe.



16mm to 26mm pipe is also available, the outer layer is PE and is coloured white. It also carries a Watermark License and can be supplied in pre-insulated coils.



Do not use pipes that have kinks, cuts, deep scratches, squashed ends, imperfections or have been in contact with contaminating substances. Such pipe should be cut out and replaced, as these conditions may affect the integrity of the system.

## Forming Stability

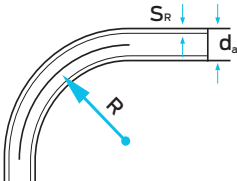
After bending, the DuoPEX Water pipe will remain stable due to the aluminium layer. In many cases, thanks to this characteristic, it is possible to prefabricate assemblies before delivery to the site.

## Minimum Bending Radii

Bending can be made manually, however if tighter bends are required, bending tools may be used.

Nominal diameter (d <sub>a</sub> x s)	Bending radius (R) without aid	Bending radius (R) with bending spring	Bending radius (R) with bending tool
16 x 2.0	5 x d <sub>a</sub> - 80	3 x d <sub>a</sub> - 48	55
20 x 2.0	5 x d <sub>a</sub> - 100	3 x d <sub>a</sub> - 60	79
26 x 3.0			88
32 x 3.0			128
40 x 3.5			4.0 x d <sub>a</sub> - 160
50 x 4.0			4.0 x d <sub>a</sub> - 200
63 x 4.5			4.0 x d <sub>a</sub> - 252

Note: All measurements in mm unless otherwise stated.



The bending process on DuoPEX Water pipe must not result in either indentations or deformations on the inside of the pipe bend. Damage to the PEX layer of the DuoPEX Water pipe may effect the integrity of the system.

## Fastening Spacing

DN	Pipe dimension	Maximum spacing of fasteners (S)		Pipe weight with water (kg/m)
		Horizontal	Vertical	
12	16 x 2.0	1200	1500	0.225
15	20 x 2.0	1350	1500	0.355
20	26 x 3.0	1500	1750	0.608
25	32 x 3.0	1650	2000	0.935
32	40 x 3.5	2000	2000	1.438
40	50 x 4.0	2500	2500	2.264
54	63 x 4.5	2500	2500	3.611

Note: All measurements in mm unless otherwise stated..

## Thermal Changes in Length

Heating and cooling cause pipe length changes. The coefficient of expansion of DuoPEX Water composite pipes is 0.026 mm/m x k. For further information on linear expansion tables and expansion bend examples contact your DuoPEX representative.

Example Temperature	
Differential $\Delta T$	50 k
Pipe length L	5 m
Coefficient of expansion a	0.026 mm/m.K
Linear expansion $\Delta L$	6.5 mm
$\Delta L$	$= a \times L \times \Delta T$ $= 0.026\text{mm/m.K} \times 5 \text{ m} \times 50 \text{ K}$ $= 6.5 \text{ mm}$

Thermal conductivity = 0.45 W/M x K

## Installation Considerations

- Keep DuoPEX Water pipe a minimum of 500mm from sources of high heat, such as heating appliances and flues from heating appliances
- Keep DuoPEX Water pipe 1500mm from slow combustion type stoves and flues used to heat hot water or cooking (wet back type)
- Leave 300mm minimum space between DuoPEX Water pipe and light fittings or other electrical fixtures
- DuoPEX Water pipe should not be positioned within 150mm of gas or central heating vents or flues
- Where fire collars or the like are required, installers should contact the manufacturer of those products to ensure they have certification for MLP construction

### Uncontrolled Heat Sources

In the case of uncontrolled heat sources (e.g. slow combustion stoves, water heating coils, wet back boilers, solar, or similar) DuoPEX Water pipe should not be used. The primary flow and return on these types of heaters should not be installed in DuoPEX Water pipe. Secondary flow and returns must be controlled so that the temperature/pressure requirements are not exceeded.

In the interest of safe temperatures and to protect the user, tempering valves should be installed in accordance with AS/NZS 3500.

When using solar systems, installers should consult with manufacturers to ensure that water leaving the storage facilities does not exceed the performance capabilities of the pipe. Primary flow and returns should not be installed in DuoPEX Water pipe and secondary flow and returns must be controlled.

### Temperature/Pressure Requirements

ISO 21003 allows PEX/AL/PEX pipes to be used at 1000kPa at a temperature of 70°C. For applications in excess of 1000kPa, please consult with your DuoPEX representative.

## Direct Sunlight Exposure

The outer layer of the DuoPEX Water pipe contains carbon black to the Australian Standard but **should not** be used in direct sunlight. Lay flat sleeving is available for sizes 32mm to 63mm, however this sleeving has a maximum UV life of 4 years and should be replaced prior to that time. Lay Flat sleeving is available in lilac and green for recycled and rainwater applications, but they do not offer any UV protection. It is best practice to sleeve exposed pipes.



16mm to 26mm pipe is not suitable for exposure to direct sunlight.

## Temperature Correction Factor

Temperature	Flow Velocity [V (m/s)]						
	0.5	1.0	2.0	3.0	4.0	5.0	6.0
10°C	1.0	1.0	1.0	1.0	1.0	1.0	1.0
20°C	0.93	0.94	0.94	0.95	0.95	0.96	0.96
30°C	0.88	0.89	0.90	0.91	0.92	0.93	0.93
40°C	0.83	0.84	0.86	0.88	0.89	0.90	0.91
50°C	0.79	0.81	0.84	0.86	0.87	0.88	0.89
60°C	0.76	0.78	0.81	0.83	0.85	0.86	0.87
70°C	0.73	0.76	0.79	0.81	0.83	0.84	0.86
80°C	0.71	0.73	0.77	0.80	0.82	0.83	0.84
90°C	0.68	0.71	0.75	0.78	0.80	0.82	0.83

## Chemical Resistance

The chemical properties of polyethylene are significantly improved by the cross-linking process.

DuoPEX Water pipes are resistant to the following media:

- Concrete, plaster, mortar, and cement
- Disinfectants and cleaning agents according to DVGW worksheet W 291 and DIN 2000
- All natural potable water constituents
- Corrosion – protection agents according to DIN 1988 Part 4

DuoPEX Water pipes must be protected against:

- Direct contact with bitumen or bitumen strips
- Greases, solvents and oils
- Contaminated areas as defined in AS/NZS 3500

If the DuoPEX Water system is used in areas where, for example, aggressive gases, permanently acting moistures or building materials containing chlorine are to be encountered, the pipe and fittings must be protected using suitable jacketing. It is also best practice to protect fittings with suitable jacketing when in contact with screed, concrete, mortar or plaster. Always consult the manufacturer for details.

## Timber & Steel Frames

Drill holes through studs, plates etc. large enough so that the DuoPEX pipe can move freely to allow for expansion and contraction and pressure surges.

Holes drilled or formed in metal studs or plates must be accurately sized to enable suitable grommets. Insulation or a short sleeve of oversize pipe should also be firmly secured in the framework to be inserted around the pipe. This helps to ensure that there is no direct contact between the pipe and framework and allows for movement of the pipe through the grommet, lagging or sleeve. To avoid noises where pipes pass through studs, plates etc. That have large holes, consideration should be given to the use of a non-aggressive compound, grommet or sleeve in the annular space in the stud or plate. AS/NZS 3500 allows neutral cure silicone to be used around PE-X pipes to fill the annular space drilled through a stud or plate.

## Use Under Concrete Slabs

Water pipes located beneath slabs on ground must be laid on a compacted bed of sand or fine-grained soil with a minimum distance of 75mm between the top of the underside of the slab. Pipe work that penetrates the slab must be at right angles to the slab surface and lagged the full length of the slab penetration with an impermeable flexible material not less than 6mm in thickness. Alternatively, an impermeable plastic sleeves or conduit providing equivalent protection.

Any joints located beneath a concrete slab including under any permanent driveway, path, or parking area, should be avoided, however if fittings are required the number used should be kept to a minimum.

## DuoPEX Burial

DuoPEX fittings are suitable for burial in most applications, however, care is required when using fittings in such applications as environmental factors may have a detrimental effect on the life expectancy of the fittings and pipe. The installation of DuoPEX fittings that require burial or chasing into concrete or brickwork, must comply with all local plumbing code requirements. DuoPEX fittings are not suitable for use in areas where the soil is or may become contaminated\* including the soil used for back filling.

The soil used for back filling must be free of rocks, debris or any sharp objects that may cause damage to the fitting or pipe through impact or abrasion.

Where DuoPEX fittings are buried in conditions that may be corrosive to brass/copper or otherwise potentially detrimental to the fittings, the fittings must have an impervious barrier between the fitting and the surrounding soil. RWC recommend the use of RWC Silicone Burial Wrap for this purpose.

***\*Examples of contamination include, but are not limited to: petrochemicals (reclaimed service station sites), high levels of nitrogen compounds (this could be caused by animal waste or fertilizer that may be found in some agricultural applications), low pH levels (below pH 6), high pH levels (above pH 8), run off from land fill, formaldehyde compounds, and solvents. It should be noted that such contaminants have been known to migrate through plastic piping systems and contaminate the potable water supplied through these pipes.***



## RWC Silicone Burial Wrap

When using RWC Silicone Burial Wrap, make a DuoPEX connection as per AS/NZS 3500 (see Installation Instructions in this manual for details). While leaving the protective film in place, measure the amount of tape needed to completely wrap the fitting. To ensure a proper seal, overlap tape by 25mm past the end of the fitting on every end and 5mm – 10mm between/across the fitting.

Completely cover the fitting by wrapping (overlapping each edge of the tape) the fitting, pulling the tape tight and removing the protective film. The tape will bond to itself within minutes and form an impervious barrier within a few hours.

See Product List section for item and code.



RWC Silicone Burial Wrap

## Pipes in Chases, Ducts or Conduits

Pipes in chases must be continuously wrapped with an impermeable flexible material DuoPEX supply pre-covered 5m lengths suitable for this purpose Ducts must be fitted with removable covers Conduits embedded in walls or floors should comply with the requirements of the Australian or New Zealand Building Codes as applicable.

Although water service pipes are not permitted to be embedded or cast directly into a concrete structure it is permissible for a water service pipe to be within a conduit and then embedded within a wall or floor of masonry or concrete construction.

*Refer to AS/NZS 3500.1*

## Avoiding Potential Physical Damage

Before, during, and after installation, pipe and fittings should be protected from any potential physical damage included but not limited to; rodents; radiation; sharp objects; machinery; excessive forces; corrosive agents; and chemicals that may have a detrimental effect on the piping system.

## Water Quality and Chlorine

Potable water is sourced using a variety of methods. The Australian Drinking Water Guidelines provides a framework to govern potable water. To achieve this, chlorine and other agents are sometimes used as constituents of the water. Chlorine levels within the levels of the Australian Drinking Water Guidelines are in most cases suitable in standard discontinuous flow applications. For continuous flow applications such as circulating hot water lines a maximum chlorine level of 1.2ppm must be maintained.

Water pH levels must be greater than 7.5. Should the installer have concerns relating to water chemistry including chlorine levels for a particular site or application they should contact RWC for further information.

## Disinfection of Plumbing System

The DuoPEX plumbing system is compliant and certified to AS/NZS 2537 and AS 2492 and as such all components of the system have been certified to AS/NZS 4020. RWC can confirm, based on the AS/NZS 4020 certification that the DuoPEX system does not cause any multiplication of micro-organisms, microbial contamination. RWC recommend that an independently accredited provider is engaged to undertake any thermal disinfection or chemical flush of the system and that this work is carried out in line with the relevant Standards.

Chemical flushes must be limited to a maximum of 5 occurrences over the system lifetime and records must be maintained showing when disinfection took place, what process was followed and who undertook the disinfection works. Chemical flushing is to be done in line with the Australian Drinking Water Guidelines. The guidelines prohibit flushing potable plumbing systems with a solution greater than 5ppm of chlorine and within the normal operating temperatures and pressures (as specified in the DuoPEX Technical Literature).

If chemical flushing with a high concentration solution of chlorine is conducted incorrectly it will have a detrimental effect on any piping system. Dosing must be done in such a way as not to exceed the 5ppm chlorine level in any part of the plumbing system.

Thermal disinfection processes must be conducted within the normal operating conditions of the DuoPEX plumbing system.

# Water Pressure Loss

## Calculation of Potable Water – Principals

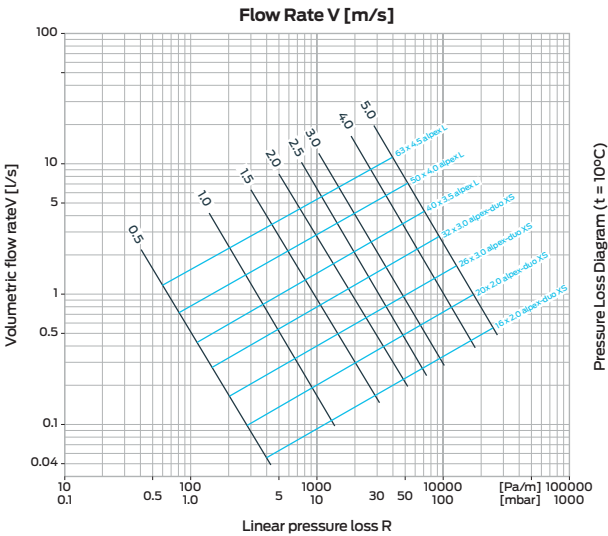
The following tables show Pressure Loss for DuoPEX Water pipe at a fluid temperature of 10°C.

Pipe Size	16 x 2.0		20 x 2.0		26 x 3.0	
Flow Velocity V (m/s)	Volumetric Flow V (L/s)	Pressure Loss R (mbar/m)	Volumetric Flow V (L/s)	Pressure Loss R (mbar/m)	Volumetric Flow V (L/s)	Pressure Loss R (mbar/m)
0.5	0.06	4.13	0.1	2.83	0.16	2.12
0.6	0.07	5.62	0.12	3.88	0.19	2.89
0.7	0.08	7.31	0.14	5.07	0.22	3.78
0.8	0.09	9.17	0.16	6.42	0.25	4.78
0.9	0.1	11.3	0.18	7.79	0.28	5.91
1	0.11	13.54	0.2	9.34	0.31	7.12
1.2	0.14	18.66	0.24	13.05	0.38	9.75
1.4	0.16	24.58	0.28	17.09	0.44	12.79
1.6	0.18	31.25	0.32	21.6	0.5	16.19
1.8	0.2	38.87	0.36	26.42	0.57	19.92
2	0.23	46.49	0.4	32.12	0.63	24.00
2.5	0.28	67.69	0.5	47.45	0.79	35.93
3	0.34	93.73	0.6	66.08	0.94	49.27
3.5	0.4	127.58	0.7	88.03	1.1	66.44
4	0.45	159.3	0.8	110.98	1.26	83.98
4.5	0.51	200.77	0.9	137.93	1.41	105.28
5	0.57	239.54	1.01	167.94	1.57	127.47

Pipe Size	40 x 3.5		50 x 4.0	
Flow Velocity V (m/s)	Volumetric Flow V (L/s)	Pressure Loss R (mbar/m)	Volumetric Flow V (L/s)	Pressure Loss R (mbar/m)
0.5	0.43	1.09	0.69	0.80
0.6	0.51	1.51	0.83	1.11
0.7	0.6	1.95	0.97	1.46
0.8	0.68	2.50	1.11	1.86
0.9	0.77	3.07	1.25	2.30
1	0.88	3.71	1.39	2.80
1.2	1.03	5.17	1.66	3.82
1.4	1.2	6.83	1.94	5.09
1.6	1.37	8.57	2.22	6.52
1.8	1.54	10.7	2.49	8.10
2	1.71	13.03	2.77	9.90
2.5	2.14	19.69	3.46	14.8
3	2.57	27.54	4.16	20.46
3.5	2.99	36.37	4.85	27.27
4	3.42	46.05	5.54	35.04
4.5	3.85	57.67	6.23	43.14
5	4.28	69.68	6.93	52.67

Pipe Size	63 x 4.5		32 x 3.0	
Flow Velocity V (m/s)	Volumetric Flow V (L/s)	Pressure Loss R (mbar/m)	Volumetric Flow V (L/s)	Pressure Loss R (mbar/m)
0.5	1.15	0.59	0.27	1.47
0.6	1.37	0.81	0.32	2.05
0.7	1.60	1.08	0.37	2.69
0.8	1.83	1.37	0.42	3.42
0.9	2.06	1.66	0.48	4.16
1	2.29	2.04	0.53	5.00
1.2	2.75	2.83	0.64	6.95
1.4	3.21	3.76	0.74	9.12
1.6	3.66	4.86	0.85	11.71
1.8	4.12	5.91	0.96	14.45
2	4.58	7.15	1.06	17.46
2.5	5.73	10.7	1.33	26.08
3	6.87	14.91	1.59	36.51
3.5	8.02	19.85	1.86	48.99
4	9.16	25.48	2.12	62.14
4.5	10.31	31.49	2.39	77.09
5	11.45	38.19	2.65	93.25

## Water Pressure Loss Diagram



## DuoPEX Water Fitting Pressure Drop

Pressure losses due to individual resistances can be calculated based on the loss coefficients and based on the equivalent pipe lengths of the individual resistances.

*These value equivalents are then added to the pipe lengths of the respective pipe sections to then calculate the total resistance.*

### Pressure Losses Due to Individual Resistances of DuoPEX Water Fittings

Individual Resistance (a)	Graphic Symbol (b)	Equivalent Pipe Length Pipe Diameter						
		16	20	26	32	40	50	63
Tee, Branch Flow Separation		10.1	5.1	3.8	3.2	3.4	4.5	2.3
Tee, Transition Flow Separation		4.1	1.9	1.1	0.7	1.4	0.8	0.9
Tee, Transition Flow Separation		10.1	5.1	3.8	3.2	3.4	4.2	2.3
Angle / 90° Elbow		11.2	5.9	4.2	0.6	3.5	3.9	2.0
Angle / 45° Elbow		–	–	3.2	2.0	1.9	1.6	0.6
Reduction		–	6.9	2.7	2.2	3.1	3.2	2.5
Coupling		3.6	1.6	0.7	0.5	1.0	0.5	0.3

- a. The symbol "V" for flow velocity defines the location of the proper reference velocity in the fitting and connecting piece
- b. For reduced tees, the resistance value of the similar tee is assumed with the smallest dimension of the reduced tee for the flow path to be calculated

**General:** The loss coefficient is assigned in each case to the volumetric flow (partial flow), which is indicated in the diagram with the symbol "V".

A flow rate of 2m/s was assumed to calculate the equivalent pipe lengths.

## DuoPEX Water Fittings

DuoPEX Water fittings are manufactured from dezincification resistance (DR) brass with a stainless steel crimp ring and joined to the pipe using a specific precision crimping tool.

To increase joint performance all DuoPEX Water crimp fittings are characterised by a plastic holding ring which has three important functions:

1. As a locating ring that matches the DuoPEX Water jaws for a perfect crimp position
2. It allows the installer to visually check when the pipe is correctly fitted on the fitting
3. The fitting has a blue plastic holding ring to identify the fitting is for water installations only



**DuoPEX Tee**

For the complete range of products see pages 18 to 22.



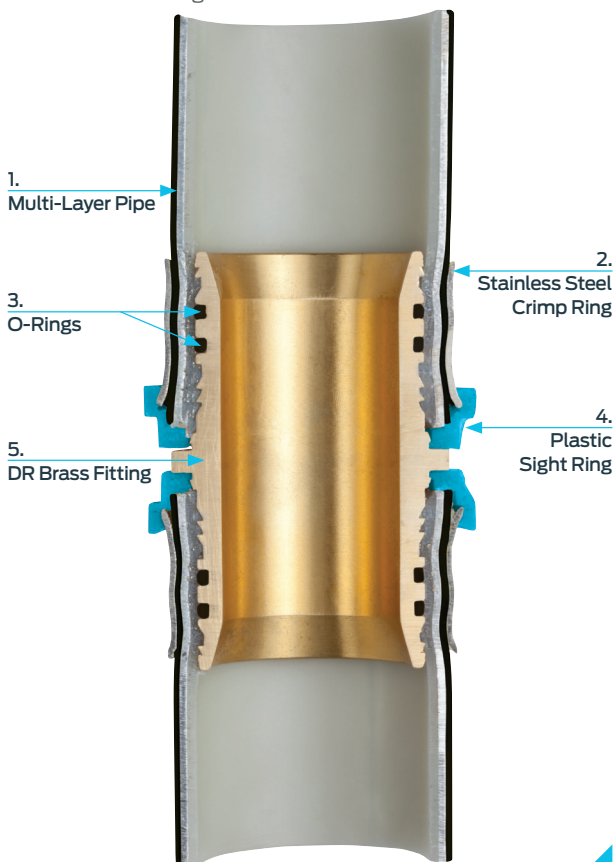
The DuoPEX Gas fittings and DuoPEX Water fittings have different O-Ring compositions that are specific to their purpose.

The yellow holding ring indicates O-Rings for gas and the blue holding rings indicates O-Rings for water. Use the correct fitting for each application. This must be strictly adhered to.



Pipe and fittings are joined and sealed thanks to the stainless steel crimp ring mechanical deformation (2). This deformation is achieved by using the special DuoPEX Gas jaws.

1. Multi-Layer Pipe
2. Stainless Steel Crimp Ring
3. O-Rings
4. Plastic Sight Ring
5. DR Brass Fitting



The Plastic Sight Ring aids in locating the jaws in the correct crimp position and features a witness hole to check the pipe has been fully inserted in the fitting.

## Making A Joint

It is most important that the tool manual supplied with the tool is read in its entirety and the user becomes familiar with the maintenance, precautions and the proper use of this tool.

The following describes, in general terms, the jointing procedures but should not be regarded as a substitute for reading and applying the detailed instructions contained in the tool manual.

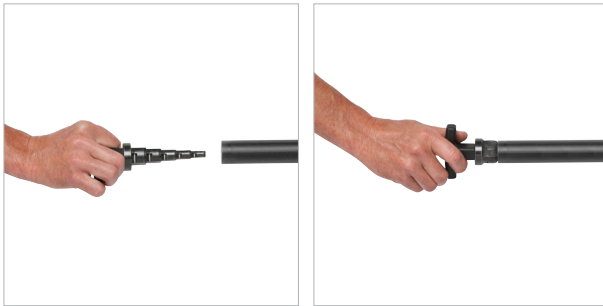
1. Ensure that the battery is fully charged and attach it to the tool.
2. Select the jaw size to suit the fitting to be crimped. The jaws must be examined in terms of possible damage, or dirt in the compression area.



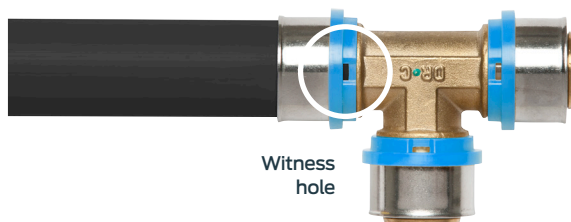
3. To change the jaw push the pin in and turn pin to unlock.
4. Insert the jaws and line up the holes in the tool with the hole in the jaw.
5. Push the pin through the hole in the jaw and turn pin to lock.



6. Cut the pipe to the required length with the recommended multi-layer pipe cutters.



7. Insert the approved calibrating/deburring tool into the pipe, and then alternately turn in a clockwise and in a counter-clockwise direction. Ensure that a consistent, smooth chamfer is formed on the end of the pipe.



8. Insert the pipe into the fitting and under the stainless steel ring and push the pipe until it is visible in the slots of the plastic sight ring (witness hole). This ensures you have pushed the pipe home.



9. By squeezing the back of the jaw, the jaws will open. If you look at the machined profile on the inside of the jaws you will note a slot on each side of the profile.



10. With the jaws open place the fitting inside the jaws so that the raised section of the plastic sight ring fits into the slot in the jaws. Release the jaws so they fit snugly over the fitting, ensuring that the raised section of the plastic sight ring is still located in the slots in the jaw.



11. Press the switch mechanism until the joint is completed and the piston has retracted back into the body of the tool.



12. Press the back end of the jaws and remove the completed joint.

Pipe Straight

32mm x 5m	DPW433205
40mm x 5m	DPW444005
50mm x 5m	DPW455005
63mm x 5m	DPW466305

Pipe Coils

16mm x 100m	ARP4016100
20mm x 100m	ARP4120100
26mm x 50m	ARP422650
32mm x 50m	DPW433250
16mm x 50m Pre-Insulated R.3 – 9mm Wall	ARP401650RR8
20mm x 50m Pre-Insulated R.3 – 9mm Wall	ARP412050RR8
26mm x 25m Pre-Insulated R.3 – 9mm Wall	ARP422625RR8

Lay Flat Sleeving

Lilac Sleeving for 32mm	DPWLILLAG32
Lilac Sleeving for 40mm	DPWLILLAG40
Lilac Sleeving for 50mm	DPWLILLAG50
Lilac Sleeving for 63mm	DPWLILLAG63
Green Sleeving for 32mm	DPWGRLAG32
Green Sleeving for 40mm	DPWGRLAG40
Green Sleeving for 50mm	DPWGRLAG50
Green Sleeving for 63mm	DPWGRLAG63

Couplings

16mm	DPW011616
20mm	DPW012020
26mm	DPW012626
32mm	DPW013232
40mm	DPW014040
50mm	DPW015050
63mm	DPW016363
20mm x 16mm	DPW022016
26mm x 16mm	DPW022616
26mm x 20mm	DPW022620
32mm x 20mm	DPW023220
32mm x 26mm	DPW023226
40mm x 32mm	DPW024032
50mm x 32mm	DPW025032
50mm x 40mm	DPW025040
63mm x 40mm	DPW026340
63mm x 50mm	DPW026350

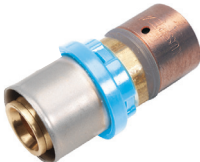


Conversion Couplings

16mm DuoPEX Water x 16mm Auspex	DPWCC1616
32mm DuoPEX Water x 20mm Auspex	DPWCC3220
32mm DuoPEX Water x 25mm Auspex	DPWCC3225
40mm DuoPEX Water x 20mm Auspex	DPWCC4020
40mm DuoPEX Water x 25mm Auspex	DPWCC4025

Tees

16mm	DPW03161616
20mm	DPW03202020
26mm	DPW03262626
32mm	DPW03323232
40mm	DPW03404040
50mm	DPW03505050
63mm	DPW03636363
20mm x 16mm x 16mm	DPW04201616
20mm x 20mm x 16mm	DPW04202016
20mm x 16mm x 20mm	DPW04201620
26mm x 16mm x 16mm	DPW04261616
26mm x 20mm x 16mm	DPW04262016
26mm x 26mm x 20mm	DPW04262620
26mm x 20mm x 20mm	DPW04262020
26mm x 26mm x 16mm	DPW04262616
32mm x 32mm x 16mm	DPW04323216
32mm x 32mm x 20mm	DPW04323220
32mm x 32mm x 26mm	DPW04323226
32mm x 26mm x 26mm	DPW04322626
40mm x 40mm x 32mm	DPW04404032
40mm x 32mm x 32mm	DPW04403232
40mm x 32mm x 40mm	DPW04403240
50mm x 50mm x 32mm	DPW04505032
50mm x 50mm x 40mm	DPW04505040
63mm x 63mm x 32mm	DPW04636332
63mm x 63mm x 40mm	DPW04636340
63mm x 63mm x 50mm	DPW04636350



# Product List

## Fittings

### Tees (Auspex Centre)

32mm x 32mm x 25mm Auspex Centre Tee	DPW04323225PEX
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### Threaded BSP Tees (Male)

32mm x 32mm x 1"	DPW04323225MI
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### Threaded BSP Tees (Female)

32mm x 32mm x 1"	DPW04323225FI
40mm x 40mm x 1"	DPW04404025FI
40mm x 40mm x 1 1/4"	DPW04404032FI
50mm x 50mm x 3/4"	DPW04505020FI
50mm x 50mm x 1"	DPW04505025FI
63mm x 63mm x 1"	DPW04636325FI



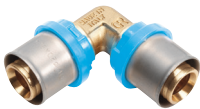
### 45° Elbows

32mm x 32mm	DPW05453232
40mm x 40mm	DPW05454040
50mm x 50mm	DPW05455050
63mm x 63mm	DPW05456363



### Elbows

16mm	DPW051616
20mm	DPW052020
26mm	DPW052626
32mm	DPW053232
40mm	DPW054040
50mm	DPW055050
63mm	DPW056363



### Threaded BSP Elbows (Female)

32mm x 1"	DPW053225FI
40mm x 1 1/4"	DPW054032FI
50mm x 1 1/2"	DPW055040FI



# Product List

## Fittings

### Threaded BSP Elbows (Male)

32mm x 1"	DPW053225MI
40mm x 1 1/4"	DPW054032MI
50mm x 1 1/2"	DPW055040MI
63mm x 2"	DPW056350MI



### Threaded BSP Adaptors (Male)

16mm x 1/2"	DPW091615
20mm x 3/4"	DPW092020
26mm x 3/4"	DPW092620
26mm x 1"	DPW092625
32mm x 1"	DPW093225
32mm x 1 1/4"	DPW093232
40mm x 1 1/4"	DPW094032
50mm x 1 1/2"	DPW095040
63mm x 2"	DPW096350



### Threaded BSP Adaptors (Female)

16mm x 1/2"	DPW101615
20mm x 3/4"	DPW102020
26mm x 3/4"	DPW102620
26mm x 1"	DPW102625
32mm x 1"	DPW103225
32mm x 1 1/4"	DPW103232
40mm x 1 1/4"	DPW104032
50mm x 1 1/2"	DPW105040



### DuoPEX Water To B-Press Adaptors

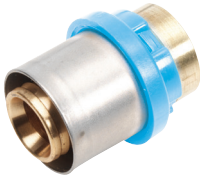
16mm x 1/2"	DPW281615
20mm x 1/2"	DPW282015
20mm x 3/4"	DPW282020
26mm x 3/4"	DPW282620
26mm x 1"	DPW282625
32mm x 1"	DPW283225
40mm x 1 1/4"	DPW284032
50mm x 1 1/2"	DPW285040





End Caps

16mm	DPW1416
20mm	DPW1420
26mm	DPW1426
32mm	DPW1432
40mm	DPW1440



Loose Nut and Tail (Female)

16mm x 1/2"	DPW191615FI
20mm x 1/2"	DPW192015FI
26mm x 3/4"	DPW19262090FI
40mm x 1 1/2"	DPW194040
50mm x 2"	DPW195050



Chrome Copper Tail Adaptor

16mm x 300mm	DPW1516CC15
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Brazing Tail (Female)

16mm x 1/2" Female	DPW0816F
20mm x 1/2" Female	DPW0820F
26mm x 3/4" Female	DPW0826F



O-Rings and Stainless Steel Sleeve must be applied after soldering and quenching. Ensure that O-Rings are correctly located on the fitting.

DuoPEX Jaws for Mini Tool

16mm Jaw	GPMSBM16AUS
20mm Jaw	GPMSBM20AUS
26mm Jaw	GPMSBM26AUS
32mm Jaw	GPMSBM32AUS



Spare Battery for Mini Tool

9.6V Replacement Battery	GPMMKPBAUS
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## Customer Service

Telephone (03) 9770 3600  
Email [salesauspex@rmc.com.au](mailto:salesauspex@rmc.com.au)  
[duopex.com.au](http://duopex.com.au)

For operating parameters outside those stated in the manual, please contact Customer Service.

Contents of this brochure are subject to change, please visit our website for the most up-to-date product information.

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WM-022149