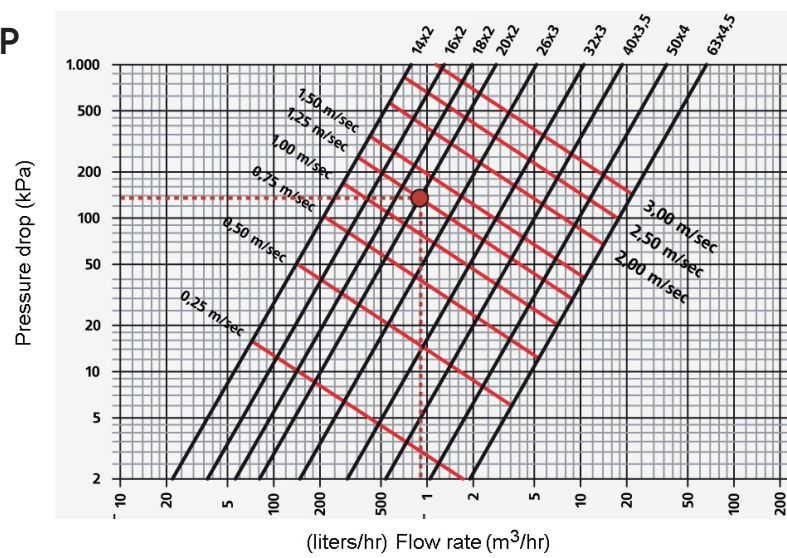


PRESSURE DROP CHART

This graph determines the pressure drop and velocity for a known flow rate. The example shows 20mm pipe flowing 900L/hr generates a pressure drop of 135kPa at a velocity of 1.25m/sec.



MULTI-LAYER CRIMP PIPE SYSTEM FOR WATER

INSTALLATION PROCEDURE

1. CUT

The pipe must be cut square. Good quality shear style cutters can be used on 16 and 20mm sizes. Rotary style cutters should be used on bigger sizes to prevent squashing and distortion.

2. REAM

It is critical to ream the cut pipe in order to prevent unintentional o-ring damage as the pipe is inserted. For the same reason it is good practise to use Vinoleo or Greasil lubricant on all sizes and essential on fittings 26mm and bigger.

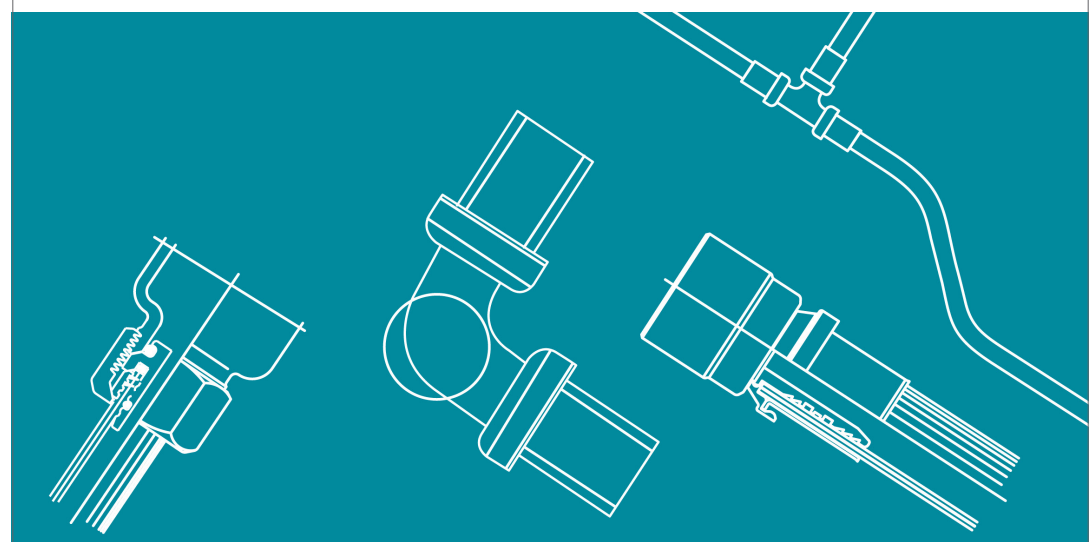
3. INSERT

Insert the prepared pipe fully into the fitting. Observe the end of the pipe through the translucent blue insulation ring.

4. CRIMP

Position the appropriate size and pattern jaw over the stainless steel sleeve and complete the crimp.

Refer to Waterware for a full range of approved tools.



WARRANTY	Domestic installations	Commercial installations	Expected aged life
RBM Tita-fix	10 years parts & labour	5 years parts & labour 10 years parts only	More than 50 years

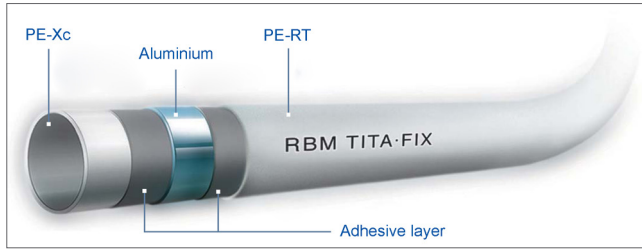


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RBM TITA-FIX UNITES THE PROPRIETIES OF SYNTHETIC AND TRADITIONAL MATERIALS TO FORM AN UNNATURALLY GOOD SOLUTION.



The Tita-fix multilayer pipe system combines the qualities of crosslinked polyethylene with those of aluminium. Crosslinked polyethylene guarantees excellent mechanical, chemical and physical properties while the butt

welded aluminium layer improves mechanical resistance while allowing bending flexibility and pliancy - Qualities that speed and simplify an installation.



The high resistance to atmospheric corrosion and water borne chemical compounds.



Absorbs vibrations and therefore provides a very good level of acoustic insulation.



The extremely smooth internal surface resists the formation of deposits such as lime scale.



Ensured durability of at least 50 years in compliance with international product standards and testing.

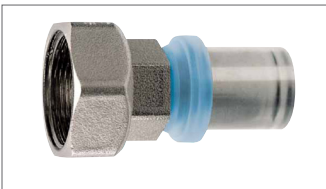


Excellent flexibility when bending while remaining dimensionally correct over time.



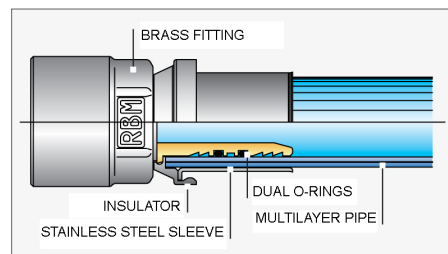
The simple cut, ream, insert, crimp joining process saves significant installation time and cost.

RBM TITA-FIX BRASS CRIMP FITTINGS



Precision machined brass fittings feature a durable stainless steel crimp sleeve and dual o-ring seals. Fittings can be crimped by a wide range of jaw profiles using a portable crimping machine.

The joint remains perfectly water tight regardless of pressure and temperature fluctuations thanks to the combined forces of the compressed stainless steel sleeve, o-ring elasticity and the barbed profile inside the fitting.



PRODUCT SPECIFICATION

Outside Ø x Wall thickness	16 x 2mm	20 x 2mm	26 x 3mm	32 x 3mm	40 x 3.5mm
Maximum pressure / temperature rating	95°C @10bar	95°C @10bar	95°C @10bar	95°C @10bar	95°C @10bar
Layer composition	PE-Xc/Al/PE-RT	PE-Xc/Al/PE-RT	PE-Xc/Al/PE-RT	PE-Xc/Al/PE-RT	PE-RT/Al/PE-RT
Aluminium layer thickness	0.20mm	0.30mm	0.40mm	0.40mm	0.50mm
Standard Coils (Bars)	100m	100m	50m	25m (4m)	25m (5m)
Insulated Coils	50m	50m	50m	25m	n.a.
Insulation thickness / density	6mm / 35kg/m ³	6mm / 35kg/m ³	6mm / 35kg/m ³	6mm / 35kg/m ³	n.a.
Insulated pipe thermal conductivity @40°C	0.069W/mK	0.069W/mK	0.069W/mK	0.069W/mK	n.a.
Insulated pipe heat loss per meter @60°C	12.5 W/m	14.4 W/m	17.1 W/m	n.a.	n.a.
Insulated pipe heat loss per meter @80°C	19.1 W/m	22.0 W/m	26.0 W/m	n.a.	n.a.
Compatible crimp jaws	TH, H, U, B, F	TH, H, U, B, F	TH, H, B	TH, H	TH, H
Minimum bending radius by hand	80mm	100mm	140mm	160mm	n.a.
Minimum bending radius with form bender	50mm	80mm	100mm	120mm	150mm

APPLICATIONS AND LIMITATIONS

RBM Tita-fix is suitable for the reticulation of *potable or non-potable hot and cold water systems up to a maximum of 95°C @ 10bar. *Tita-fix is an acceptable solution under G12 of the NZ building code but it does not carry NZ or Australian standards for potable systems.

The installation of pipe and fittings is allowed directly in ground, within concrete slab, inside wall cavities, or external to the building envelope. To protect against hair line cracking the concrete, loose wrap or plastic sleeve the pipe when used for hot water > 45°C. In all cases, when used in ground or in concrete, all fittings should be wrapped in 'denzo' tape or similar.

RBM Tita-fix is not suitable for high temperature applications (e.g. connection to solar panels or solid fuel boilers) or the reticulation of gas or fuels of any kind.

No part of the pipe system should be connected to the buildings electrical earthing system.

For maximum efficiency use pre-insulated pipe on any hot water supplies.

Any exposed pipe subject to wind chill below 0°C should be protected against freezing.

All external pipe requires protection against UV exposure by either a UV stable paint or sleeve e.g. PXUVPro, a specific purpose UV safe sleeve available for 16, 20 and 26mm pipe.