

PHILMAC FITTINGS

POLYETHYLENE (PE)
PRESSURE SOLUTIONS

Philmac

The connection you can trust.



Wide range of fittings and valves to cover most of PE pipe application from OD 20 -110mm metric pipe sizes.

Fittings are manufactured from lightweight, high performance thermoplastic material with outstanding impact, UV and corrosion resistance.

The range consists of:

3G Metric™ Compression fittings

- Slide and Tighten™ technology. Each fitting is pre-assembled and ready to use so there's no need to disassemble the fittings or prepare the pipe prior to use.
- No loose components.
- Fitting is ideal to use in compact spaces.
- Designed to minimise pipe twist, reducing the risk of untightening joints.

Universal Transition (UTC®) Fittings

- Slide and Tighten™ technology. Range of mechanical compression fittings that provides the ultimate in pipe connection flexibility. Without modification the same fitting connects to a variety of materials including PVC, copper, galvanised iron, ABS, lead, stainless steel and polyethylene.
- Fully integrated with no loose components.
- The design of the UTC means that once the nut is backed off the pipe can easily be removed from the fitting.

Threaded fittings

- Threaded fittings from ½" to 4", they provide precision BSP tapered threads that have been engineered to maximise sealing performance.
- The hexagonal body makes them extremely simple to install.
- Suitable for working pressures up to PN16 for sizes up to 2", PN12 for 2-1/2" and PN10 for 3" and 4" sized fittings.

Valves

- Blue handled ball valve, for sizes ½" to 2", are based on a simple on/off action and is quick and easy to install allowing the user full control of water distribution.
- Non-return valves are designed to allow water to flow in only one direction to avoid loss of water, prevent backflow and ensure pipelines do not drain. Available in sizes from ¾" to 2".

Applications

The range provides cost effective solution for the transfer, control, repair and application of water, compressed air or other fluids across plumbing, civil-Infrastructure, and rural-irrigation markets.

The range conforms to institutionalised specifications written to have a minimum life of 50 years, but its compression fittings are intentionally developed to exceed the expectations of these specifications.

Components of the system

Philmac Metric Compression Fittings

Code	Description
Metric Bracket Elbows	
PHBE2515	25mm x 1/2" Metric Bracket Elbow
PHBE2520	25mm x 3/4" Metric Bracket Elbow
Metric Coupling	
PHC20	20mm Philmac Coupling
PHC25	25mm Philmac Coupling
PHC32	32mm Philmac Coupling
PHC40	40mm Philmac Coupling
PHC50	50mm Philmac Coupling
PHC63	63mm Philmac Coupling
PHC75	75mm Philmac Coupling
PHC90	90mm Philmac Coupling
PHC110	110mm Metric Philmac Coupling
Metric 90 degree Elbow	
PHE20	20mm Philmac Elbow 90 Degree
PHE25	25mm Philmac Elbow 90 Degree
PHE32	32mm Philmac Elbow 90 Degree
PHE40	40mm Philmac Elbow 90 Degree
PHE50	50mm Philmac Elbow 90 Degree
PHE63	63mm Philmac Elbow 90 Degree
PHE75	75mm Philmac Elbow 90 Degree
PHE90	90mm Philmac Elbow 90 Degree
PHE110	110mm Philmac Elbow 90 Degree
Metric End Plug	
PHEP25	25mm Philmac End Plug
PHEP32	32mm Philmac End Plug
PHEP40	40mm Philmac End Plug
PHEP50	50mm Philmac End Plug
PHEP63	63mm Philmac End Plug
Metric Female Coupling	
PHFC20	20mm x 1/2" Philmac Female Coupling
PHFC2020	20mm x 3/4" Philmac Female Coupling
PHFC25	25mm x 3/4" Philmac Female Coupling
PHFC2525	25mm x 1" Philmac Female Coupling
PHFC32	32mm x 1" Philmac Female Coupling
PHFC3232	32mm x 1 1/4" Philmac Female Coupling
PHFC40	40mm x 1 1/4" Philmac Female Coupling
PHFC4040	40mm x 1 1/2" Philmac Female Coupling
PHFC50	50mm x 1 1/2" Philmac Female Coupling
PHFC5050	50mm x 2" Philmac Female Coupling
PHFC63	63mm x 2" Philmac Female Coupling
PHFC75	75mm x 2 1/2" Philmac Female Coupling
PHFC7550	75mm x 2" Philmac Female Coupling
PHFC90	90mm x 3" Philmac Female Coupling
PHFC110	110mm x 4" Philmac Female Coupling

Code	Description
Metric Female Elbow	
PHFE20	20mm x 1/2" Philmac Female Elbow
PHFE2020	20mm x 3/4" Philmac Female Elbow
PHFE25	25mm x 3/4" Philmac Female Elbow
PHFE2525	25mm x 1" Philmac Female Elbow
PHFE32	32mm x 1" Philmac Female Elbow
PHFE3220	32mm x 3/4" Philmac Female Elbow
PHFE40	40mm x 1 1/4" Philmac Female Elbow
PHFE4040	40mm x 1 1/2" Philmac Female Elbow
PHFE50	50mm x 1 1/2" Philmac Female Elbow
PHFE5050	50mm x 2" Philmac Female Elbow
PHFE63	63mm x 2" Philmac Female Elbow
PHFE75	75mm x 2 1/2" Philmac Female Elbow
PHFE7550	75mm x 2" Philmac Female Elbow
PHFE9075	90mm x 3" Philmac Female Elbow
Metric Female Tee	
PHFT20	20mm x 1/2" Philmac Female Tee
PHFT2020	20mm x 3/4" Philmac Female Tee
PHFT25	25mm x 3/4" Philmac Female Tee
PHFT2525	25mm x 1" Philmac Female Tee
PHFT32	32mm x 1" Philmac Female Tee
PHFT3232	32mm x 1-1/4" Philmac Female Tee
PHFT40	40mm x 1 1/4" x 40mm Philmac Female Tee
PHFT4040	40mm x 1 1/2" x 40mm Philmac Female Tee
PHFT50	50mm x 1 1/2" x 50mm Philmac Female Tee
PHFT5050	50mm x 2" Philmac Female Tee
PHFT63	63mm x 2" x 63mm Philmac Female Tee
PHFT75	75mm x 2-1/2" x 75mm Philmac Female Tee
PHFT7550	75mm x 2" Philmac Female Tee
PHFT90	90mm x 3" X 90mm Philmac Female Tee
Metric Male Coupling	
PHMC20	20mm x 1/2" Philmac Male Coupling
PHMC2020	20mm x 3/4" Philmac Male Coupling
PHMC25	25mm x 3/4" Philmac Male Coupling
PHMC2525	25mm x 1" Philmac Male Coupling
PHMC32	32mm x 1" Philmac Male Coupling
PHMC3220	32mm x 3/4" Philmac Male Coupling
PHMC3232	32mm x 1 1/4" Philmac Male Coupling
PHMC3240	32mm x 1 1/2" Philmac Male Coupling
PHMC40	40mm x 1 1/4" Philmac Male Coupling
PHMC4025	40mm x 1" Philmac Male Coupling
PHMC4040	40mm x 1 1/2" Philmac Male Coupling
PHMC4050	40mm x 2" Philmac Male Coupling
PHMC50	50mm x 1 1/2" Philmac Male Coupling
PHMC5050	50mm x 2" Philmac Male Coupling
PHMC63	63mm x 2" Philmac Male Coupling
PHMC6340	63mm x 1-1/2" Philmac Male Coupling
PHMC75	75mm x 2 1/2" Philmac Male Coupling
PHMC7550	75mm x 2" Philmac Male Coupling
PHMC7575	75mm x 3" Philmac Male Coupling
PHMC90	90mm x 3" Philmac Male Coupling
PHMC9050	90mm x 2" Philmac Male Coupling
PHMC110	110mm x 4" Philmac Male Coupling

Code	Description
Metric 90 degree Male Elbow	
PHME20	20mm x ½" Philmac Male Elbow
PHME25	25mm x ¾" Philmac Male Elbow
PHME32	32mm x 1" Philmac Male Elbow
PHME40	40mm x 1 ¼" Philmac Male Elbow
PHME4040	40mm x 1 ½" Philmac Male Elbow
PHME50	50mm x 1 ½" Philmac Male Elbow
PHME63	63mm x 2" Philmac Male Elbow
Metric Reducing Coupling	
PHRC2520	25mm x 20mm Philmac Reducing Coupling
PHRC3220	32mm x 20mm Philmac Reducing Coupling
PHRC3225	32mm x 25mm Philmac Reducing Coupling
PHRC4032	40mm x 32mm Philmac Reducing Coupling
PHRC5032	50mm x 32mm Philmac Reducing Coupling
PHRC5040	50mm x 40mm Philmac Reducing Coupling
PHRC6340	63mm x 40mm Philmac Reducing Coupling
PHRC6350	63mm x 50mm Philmac Reducing Coupling
PHRC7563	75mm x 63mm Philmac Reducing Coupling
PHRC9075	90mm x 75mm Philmac Reducing Coupling
PHRC11090	110mm x 90mm Philmac Reducing Coupling
Metric Reducing Tee	
PHRT2520	25mm x 20mm x 25mm Philmac Reducing Tee
PHRT3225	32mm x 25mm x 32mm Philmac Reducing Tee
PHRT4032	40mm x 32mm x 40mm Philmac Reducing Tee
PHRT5032	50mm x 32mm x 50mm Philmac Reducing Tee
PHRT5040	50mm x 40mm x 50mm Philmac Reducing Tee
PHRT6332	63mm x 32mm x 63mm Philmac Reducing Tee
PHRT6350	63mm x 50mm x 63mm Philmac Reducing Tee
Metric Slip Coupling	
PHSC25	25mm Philmac Slip Coupling
PHSC32	32mm Philmac Slip Coupling
PHSC40	40mm Philmac Slip Coupling
PHSC50	50mm Philmac Slip Coupling
PHSC63	63mm Philmac Slip Coupling
Metric Equal Tee	
PHT20	20mm Philmac Equal Tee
PHT25	25mm Philmac Equal Tee
PHT32	32mm Philmac Equal Tee
PHT40	40mm Philmac Equal Tee
PHT50	50mm Philmac Equal Tee
PHT63	63mm Philmac Equal Tee
PHT75	75mm Philmac Equal Tee
PHT90	90mm Philmac Equal Tee
PHT110	110mm Philmac Equal Tee
Metric Male Transition Coupling	
PHMCT25.15.21	15-21 x ¾" Philmac Male Transition Coup
PHMCT25.21.27	21-27 x ¾" Philmac Male Transition Coup
BSP Threaded Backnuts	
RXBN15	15mm Backnuts (½")
RXBN20	20mm Backnuts (¾")
RXBN25	25mm Backnuts (1")
RXBN32	32mm Backnuts (1-¼")
RXBN40	40mm Backnuts (1-½")
RXBN50	50mm Backnuts (2")

Code	Description
BSP Threaded Cap & Washer	
RXC/W15	Rx 15mm Cap & Washer (½")
RXC/W20	Rx 20mm Cap & Washer (¾")
RXC/W25	Rx 25mm Cap & Washer (1")
RXC/W32	Rx 32mm Cap & Washer (1-¼")
RXC/W40	Rx 40mm Cap & Washer (1-½")
RXC/W50	Rx 50mm Cap & Washer (2")
BSP Threaded Cap	
RXCP15	15mm Cap (½")
RXCP20	20mm Cap (¾")
RXCP25	25mm Cap (1")
RXCP32	32mm Cap (1-¼")
RXCP40	40mm Cap (1-½")
RXCP50	50mm Cap (2")
RXCP65	65mm Cap (2-½")
RXCP80	80mm Cap (3")
RXCP100	100mm Cap (4")
BSP Threaded Nipple	
RXHN100	100mm Hex Nipple (4")
RXHN15	15mm Hex Nipple (½")
RXHN20	20mm Hex Nipple (¾")
RXHN25	25mm Hex Nipple (1")
RXHN32	32mm Hex Nipple (1-¼")
RXHN40	40mm Hex Nipple (1-½")
RXHN50	50mm Hex Nipple (2")
RXHN65	65mm Hex Nipple (2-½")
RXHN80	80mm Hex Nipple (3")
BSP Threaded Plugs	
RXHP15	15mm Hex Plug (½")
RXHP20	20mm Hex Plug (¾")
RXHP25	25mm Hex Plug (1")
RXHP32	32mm Hex Plug (1-¼")
RXHP40	40mm Hex Plug (1-½")
RXHP50	50mm Hex Plug (2")
RXHP65	65mm Hex Plug (2-½")
RXHP80	80mm Hex Plug (3")
RXHP100	100mm Hex Plug (4")
BSP Threaded Hex Sockets	
RXHS15	15mm Hex Socket BSP (½")
RXHS20	20mm Hex Socket BSP (¾")
RXHS25	25mm Hex Socket BSP (1")
RXHS32	32mm Hex Socket BSP (1-¼")
RXHS40	40mm Hex Socket BSP (1-½")
RXHS50	50mm Hex Socket BSP (2")
RXHS65	65mm Hex Socket BSP (2-½")
RXHS80	80mm Hex Socket BSP (3")
RXHS100	100mm Hex Socket BSP (4")
BSP Threaded Hose Tails	
RXHT15	15mm Hose Tails
RXHT20	20mm Hose Tails
RXHT25	25mm Hose Tails
RXHT32	32mm Hose Tails
RXHT40	40mm Hose Tails
RXHT50	50mm Hose Tails
RXHT32.32MM.LONG	32mm x 32mm Hose Tail Long (1¼" x 32mm)
RXHT40.40MM.LONG	40mm x 40mm Hose Tail Long (1½" x 40mm)

Code	Description
BSP Threaded Reducing Bush	
RXRB2015	20x15 Reducing Bush BSP($\frac{3}{4}$ " x $\frac{1}{2}$ ")
RXRB2515	25x15 Reducing Bush BSP (1" x $\frac{1}{2}$ ")
RXRB2520	25x20 Reducing Bush BSP (1" x $\frac{3}{4}$ ")
RXRB3220	32x20 Reducing Bush BSP (1- $\frac{1}{4}$ " x $\frac{3}{4}$ ")
RXRB3225	32x25 Reducing Bush BSP (1- $\frac{1}{4}$ " x 1")
RXRB4020	40x20 Reducing Bush BSP (1- $\frac{1}{2}$ " x $\frac{3}{4}$ ")
RXRB4025	40x25 Reducing Bush BSP (1- $\frac{1}{2}$ " x 1")
RXRB4032	40x32 Reducing Bush BSP (1- $\frac{1}{2}$ " x 1- $\frac{1}{4}$ ")
RXRB5020	50x20 Reducing Bush BSP (2" x $\frac{3}{4}$ ")
RXRB5025	50x25 Reducing Bush BSP (2" x 1")
RXRB5032	50x32 Reducing Bush BSP (2" x 1- $\frac{1}{4}$ ")
RXRB5040	50x40 Reducing Bush BSP (2" x 1- $\frac{1}{2}$ ")
RXRB6532	65x32 Reducing Bush BSP (2- $\frac{1}{2}$ " x 1- $\frac{1}{4}$ ")
RXRB6540	65x40 Reducing Bush BSP (2- $\frac{1}{2}$ " x 1- $\frac{1}{2}$ ")
RXRB6550	65x50 Reducing Bush BSP (2- $\frac{1}{2}$ " x 2")
RXRB8040	80x40 Reducing Bush BSP (3" x 1- $\frac{1}{2}$ ")
RXRB8050	80x50 Reducing Bush BSP (3" x 2")
RXRB8065	80x65 Reducing Bush BSP (3" x 2- $\frac{1}{2}$ ")
RXRB10050	100x50 Reducing Bush BSP (4" x 2")
RXRB10065	100 x 65 Reducing Bush BSP (4" x 2- $\frac{1}{2}$ ")
RXRB10080	100x80 Reducing Bush BSP (4" x 3")

Code	Description
BSP Threaded Reducing Hex Nipple	
RXRHN2015	20x15 Reducing Hex Nipple BSP ($\frac{3}{4}$ " x $\frac{1}{2}$ ")
RXRHN2515	25x15 Reducing Hex Nipple BSP (1" x $\frac{1}{2}$ ")
RXRHN2520	25x20 Reducing Hex Nipple BSP (1" x $\frac{3}{4}$ ")
RXRHN3220	32x20 Reducing Hex Nipple BSP (1- $\frac{1}{4}$ " x $\frac{3}{4}$ ")
RXRHN3225	32x25 Reducing Hex Nipple BSP (1- $\frac{1}{4}$ " x 1")
RXRHN4020	40x20 Reducing Hex Nipple BSP (1- $\frac{1}{2}$ " x $\frac{3}{4}$ ")
RXRHN4025	40x25 Reducing Hex Nipple BSP (1- $\frac{1}{2}$ " x 1")
RXRHN4032	40x32 Reducing Hex Nipple BSP (1- $\frac{1}{2}$ " x 1- $\frac{1}{4}$ ")
RXRHN5020	50x20 Reducing Hex Nipple BSP (2" x $\frac{3}{4}$ ")
RXRHN5025	50x25 Reducing Hex Nipple BSP (2" x 1")
RXRHN5032	50x32 Reducing Hex Nipple BSP (2" x 1- $\frac{1}{4}$ ")
RXRHN5040	50x40 Reducing Hex Nipple BSP (2" x 1- $\frac{1}{2}$ ")
RXRHN6532	65x32 Reducing Hex Nipple BSP (2- $\frac{1}{2}$ " x 1- $\frac{1}{4}$ ")
RXRHN6540	65x40 Reducing Hex Nipple BSP (2- $\frac{1}{2}$ " x 1- $\frac{1}{2}$ ")
RXRHN6550	65x50 Reducing Hex Nipple BSP (2- $\frac{1}{2}$ " x 2")
RXRHN8040	80x40 Reducing Hex Nipple BSP (3" x 1- $\frac{1}{2}$ ")
RXRHN8050	80x50 Reducing Hex Nipple BSP (3" x 2")
RXRHN10050	100x50 Reducing Hex Nipple BSP (4" x 2")
RXRHN10065	100x65 Reducing Hex Nipple BSP (4" x 2- $\frac{1}{2}$ ")
RXRHN10080	100x80 Reducing Hex Nipple BSP (4" x 3")

Code	Description
BSP Threaded Reducing Hex Sockets	
RXRHS2015	20x15 Reducing Hex Socket ($\frac{3}{4}$ " x $\frac{1}{2}$ ")
RXRHS2515	25x15 Reducing Hex Socket (1" x $\frac{1}{2}$ ")
RXRHS2520	25x20 Reducing Hex Socket (1" x $\frac{3}{4}$ ")
RXRHS3220	32x20 Reducing Hex Socket (1- $\frac{1}{4}$ " x $\frac{3}{4}$ ")
RXRHS3225	32x25 Reducing Hex Socket (1- $\frac{1}{4}$ " x 1")
RXRHS4020	40x20 Reducing Hex Socket (1- $\frac{1}{2}$ " x $\frac{3}{4}$ ")
RXRHS4025	40x25 Reducing Hex Socket (1- $\frac{1}{2}$ " x 1")
RXRHS4032	40x32 Reducing Hex Socket (1- $\frac{1}{2}$ " x 1- $\frac{1}{4}$ ")
RXRHS5020	50x20 Reducing Hex Socket (2" x $\frac{3}{4}$ ")
RXRHS5025	50x25 Reducing Hex Socket (2" x 1")
RXRHS5032	50x32 Reducing Hex Socket (2" x 1- $\frac{1}{4}$ ")
RXRHS5040	50x40 Reducing Hex Socket (2" x 1- $\frac{1}{2}$ ")
RXRHS6540	65x40 Reducing Hex Socket (2- $\frac{1}{2}$ " x 1- $\frac{1}{2}$ ")
RXRHS6550	65x50 Reducing Hex Socket (2- $\frac{1}{2}$ " x 2")
RXRHS8050	80x50 Reducing Hex Socket (3" x 2")
RXRHS8065	80x65 Reducing Hex Socket (3" x 2- $\frac{1}{2}$ ")
RXRHS10065	100x65 Reducing Hex Socket (4" x 2- $\frac{1}{2}$ ")
RXRHS10080	100x80 Reducing Hex Socket (4" x 3")

Code	Description
BSP Threaded Female Elbow	
RXTFE15	15mm Threaded Female Elbow ($\frac{1}{2}$ ")
RXTFE20	20mm Threaded Female Elbow ($\frac{3}{4}$ ")
RXTFE25	25mm Threaded Female Elbow (1")
RXTFE32	32mm Threaded Female Elbow (1- $\frac{1}{4}$ ")
RXTFE40	40mm Threaded Female Elbow (1- $\frac{1}{2}$ ")
RXTFE50	50mm Threaded Female Elbow (2")
RXTFE65	65mm Threaded Female Elbow (2- $\frac{1}{2}$ ")
RXTFE80	80mm Threaded Female Elbow (3")
RXTFE100	100mm Threaded Female Elbow

Code	Description
BSP Threaded Female Tee	
RXTFT15	15mm Threaded Female Tee ($\frac{1}{2}$ ")
RXTFT20	20mm Threaded Female Tee ($\frac{3}{4}$ ")
RXTFT25	25mm Threaded Female Tee (1")
RXTFT32	32mm Threaded Female Tee (1- $\frac{1}{4}$ ")
RXTFT40	40mm Threaded Female Tee (1- $\frac{1}{2}$ ")
RXTFT50	50mm Threaded Female Tee (2")
RXTFT65	65mm Threaded Female Tee (2-1/2")
RXTFT80	80mm Threaded Female Tee (3")
RXTFT100	100mm Threaded Female Tee (4")

Code	Description
BSP Threaded Male Female Elbows	
RXTMFE15	15mm Threaded M/F Elbow ($\frac{1}{2}$ ")
RXTMFE20	20mm Threaded M/F Elbow ($\frac{3}{4}$ ")
RXTMFE25	25mm Threaded M/F Elbow (1")
RXTMFE32	32mm Threaded M/F Elbow (1- $\frac{1}{4}$ ")
RXTMFE40	40mm Threaded M/F Elbow (1- $\frac{1}{2}$ ")
RXTMFE50	50mm Threaded F/M Elbow (2")

Code	Description
Philmac Blue Handled Ball Valve	
RXBV15	15mm Philmac Ball Valve ($\frac{1}{2}$ ")
RXBV20	20mm Philmac Ball Valve ($\frac{3}{4}$ ")
RXBV25	25mm Philmac Ball Valve (1")
RXBV32	32mm Philmac Ball Valve (1- $\frac{1}{4}$ ")
RXBV40	40mm Philmac Ball Valve (1- $\frac{1}{2}$ ")
RXBV50	50mm Philmac Ball Valve (2")

Manufacturer

The range of fittings and valves are distributed by RX Plastics and manufactured by a sister company.

Philmac Pty Ltd

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Relevant Building Code Clauses

Philmac fittings and valves when used, installed, and maintained in accordance with the requirements outlined in this document, will meet or contribute to meeting:

- NZBC Clause B2: Durability.
- NZBC Clause G12: Water supplies
- NZBC Clause F2: Hazardous Building Materials.

Limitations on the use

Temperature

- UTC® fittings are designed for cold water applications only. Exposure to elevated temperatures has a significant impact on the lifetime of the fittings. UTC® is pressure rated to 12.5 bar (180psi) at 23 °C (73 °F) to meet the needs of high-pressure systems and projected lifetime.

Fluids other than Water

- 3G Metric™ may convey a wide variety of fluids. Refer to [Chemical Resistance Table on the Technical Manual](#), as a guide only for the compatibility of various chemicals. Contact RX Plastics for advice on specific applications.
- Blue handled Ball Valves are primarily designed to convey water. However, there may be occasions where the water contains chemicals and/or alternative fluids need to be controlled. The mixing together of chemical might affect the compatibility of the valve, refer to the [Chemical Resistance Table on the Technical Manual](#) as a guide only for compatibility of various chemicals. These valves are NOT suited for acids.

Design

3G Metric™ range is developed and designed to comply with the requirements of the following standards:

- AS/NZS 4129 - Fittings for polyethylene (PE) pipes for pressure applications.
- AS/NZS 4020 – Testing of products for use in contact with drinking water.
- ISO 7.1 & BS21 Pipe threads where pressure joints are made on the threads.
- PE Pipes - AS/NZS 4130, ISO 4427, EN 12201 Polyethylene pipes for pressure applications.
- Copper Pipes - AS1432 Copper tubes for plumbing, gas fitting and drainage applications.

UTC® is designed to accommodate a range of different diameters on most pipe material (including PVC, copper, galvanized iron, ABS, lead, stainless steel, steel, polyethylene and PEX) and hold certificates for the following standards:

- AS/NZS 4129 - Fittings for polyethylene (PE) pipes for pressure applications.
- AS/NZS 4020 - Testing of products for use in contact with drinking water.
- Watermark BS6920 - Fitting materials approved for use in potable water applications.
- ISO 7.1 Pipe threads where pressure joints are made on the threads.

Threaded fittings provide precision BSP tapered threads that have been engineered to maximize sealing performance. The versatile range is made from high performance, UV resistant polypropylene and hold certificates for the following standards:

- AS/NZS 4020 - Testing of products for use in contact with drinking water
- ISO 7.1 & BS21 Pipe threads where pressure joints are made on the threads.
- Watermark approval 1/2"-2" threaded fittings

Blue Handled Ball Valves are designed to comply with the following standards.

- AS/NZ 4020 - Testing of products for use in contact with drinking water.
- ISO 7.1 Pipe threads where pressure tight joints are made on the threads.
- Tests Shut Off Test: Blue handled ball valves are tested for shut off against a hydrostatic water pressure of 2000 kPa (290 psi) or 20 bar.

Installation

All fittings shall be installed according to the manufacturer installation procedures and guidelines.

3G Metric™

No pipe preparation is needed and no force is required to push the pipe past the seal, so installation is fast and easy.

Insert the pipe into the fitting until the stop is felt, and then tighten the nut; installation can be done under live conditions.

No special tools are required, and there is no need to disassemble the fitting before use because the 3G Metric™ compression fitting is supplied pre-assembled and ready to use.

For more information refer to [Installation Instructions](#)

UTC®

Witness mark the pipe against the flange on the fitting, and then insert the pipe to the correct depth. The nut can then be tightened using a wrench.

The UTC® is fully installed when the nut can no longer be tightened with reasonable force.

No special tools are required and the UTC® is supplied ready to use.

For more information refer to [Installation Instructions](#)

Threaded Fittings

Threaded fittings are sealed using PTFE tape applied in a clockwise direction (as looking from the wide end of the thread to the narrow) with tension to enable the tape to be forced in to the grooves in the thread. No special tools are generally required to affix these threaded fittings.

For more information refer to [Installation Instructions](#)

Blue Handled Ball Valves

Operates by using a handle to turn a ball located in a body through 90°. The ball has a hole through the centre of it which allows water to pass through when in the open position.

To turn the valve on, the blue handle needs to be turned 90° until the blue handle sits in-line with the body of the valve.

To turn the valve off rotate the handle through 90° until it is at right angles to the valve body.

Care should be taken when closing the valve. It should not be closed too quickly or water hammer may result.

For more information refer to [Installation Instructions](#)

Maintenance requirements

Once fittings are correctly installed, according to the manufacturer installation procedures and guidelines, there is no specific maintenance required.

Warning and/or Bans

Fittings and valves are not subject to any warning or ban.