

April , 2017

The Perfect Connection Every Time **Twistloc®**

**LEAD
FREE**



Copper
PEX
PB
PE-RT
cPVC



for
Plumbing
& Heating
Systems



*Visible
Connection*




Twist-Lock
Security



About Us

With our enviable reputation for leading edge developments in the field of residential and commercial plastic plumbing and heating systems, SNC are proud to introduce our latest product range. We are committed to constant research and development, and all product specifications in this catalog are subject to change without notice. For further information, please contact your local Sales Representative.

 and **Twistloc®** are registered trade marks of SNC CORP. All rights reserved.

As a leading manufacturer of Twist and Lock products, all of us at SNC are committed to continuous R&D activities to return our clients' affection with consistent and good quality products.

Quality-First Production

The core value of the SNC products lies in quality competitiveness and quality value.

Strict quality control is implemented throughout the processes from design at its INCHEON Center to production at its Incheon factory.

Total quality control is applied to the entire processes from the beginning of the initial design process to production, final assembly, post production test and packaging ensuring the best quality output.

Based on its quality competitiveness and value, SNC has been accredited by the world leading certification agencies.



Quality Warranty for 25 Years



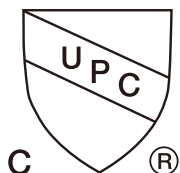
SNC products under long-term test programs and strict quality standards are backed by a 25-year warranty provided that they are installed to a pipe which has been produced in conformity with the plumbing and heating standards by a licensed plumbing contractor in accordance with installation instructions provided by SNC and applicable plumbing and heating requirements. All SNC products, Push-fit fittings carry a period of twenty-five (25) years and Valves are for ten (10) years limited warranty from the date of original shipment from SNC or its Authorized Reseller.

Our products are suitable for a wide range of plumbing & heating installations offering ease of use, reliability and reduced installation time

Not only is Twistloc lighter, more durable and easier to install, it also provides greater burst resistance than copper. In fact, various tests prove that Twistloc products are resistant to both temperature and pressures even beyond normal operation ranges

Our products, SR series and SP series are approved for food contact and potable water.

- High temperature and hydrolysis resistance
- High abrasion resistance
- Environmental benefits
- Greater water pressure at fixtures
- Less likely to burst from freezing



ASSE 1061



NSF/ANSI 14
NSF/ANSI 61
NSF/ANSI 372
NSF/ANSI 42



ANSI Accredited Program
PRODUCT CERTIFICATION



INTERNATIONAL
Standard's Worldwide

Twistloc® products are a one step, fully demountable and reusable push-fit plumbing system which combines both push-fit and twist locking technology to offer a guaranteed secure, peace of mind leak free joint.

Twistloc® which incorporates pressure and combination system, is the Twist and Lock system suitable for plumbing, local/home hot water supply and central heating systems.

Twistloc® products can work with different piping materials and are certified for use with Copper, cPVC, PE-RT, PB and PEX pipe, making it easy to combine different types of pipe for repairs or new installations.

Twistloc® products have been tested and approved in accordance with ASSE 1061, IGC 157, IGC 188, ASME A112.18.1, CSA B125.1, cUPC, NSF/ANSI 14, NSF/ANSI 42, NSF/ANSI 61 NSF/ANSI 372, WRAS and WQA

Twistloc® products provide for the perfect plastic plumbing system and are manufactured to ISO 9001 TUV standard.

The specification of products complied with the requirement of central local/home heating and water supply systems.

Various test have proved that **Twistloc**® products are resistant to temperature and pressure beyond the normal operation ranges.

Twistloc® products must be installed to the correct plumbing regulations.

The visible Connection means that once the highly visible green band can no longer be seen, you'll have absolute certainty that the joint is properly connected. That gives you complete reassurance and peace of mind; no mistake, no leaks and no hassle.

You won't find this anywhere else. The Visible Connection is unique to the Twistloc range and patented by us. Not only it dose make installation easier and safer, but it's also totally straightforward and simple to understand.

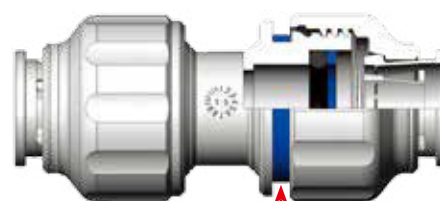
Twistloc® Advantages and Benefits



Twistloc® push-in fittings technology offers more greater security and efficiency than other traditional fittings and Valves. All white plastic fittings and valves can be designated with a visual color connection and this makes a more secure connection. Our products are certified for use with Copper, PEX and cPVC pipe, making it easy to combine different types of pipe for repairs or new installations. Our products do not require any special tools other than a cutting device for whatever pipe material is being used. Labor savings of 40% can be achieved.

- Easy to install
- Easy recognition of size by color
- Easy verification of coupling (lock/unlock) status at along distance
- White & Black & Grey fittings
- Removable and re-useable without damage to plumbing or fittings
- Light weight for easy handling onsite.
- Strong gripping suitable for heating systems
- Lot tracing of all products.
- Flexibility enables cabling of the pipe in hard access areas.
- No risk of flame or fire from a blowtorch
- Permanent anti-leak connection
- No corrosion
- No scale deposits
- Low heat diffusion ensures safe surface temperature
- Plumbing flexibility reduces the risk of burst under freezing temperature
- No lead, non toxic
- Patent Pending

No need Locking Clip



Color Cording

CTS Size	COLOR
1/4" OD	Pink
1/4"CTS	Green
3/8"CTS	Yellow
1/2"CTS	Blue
3/4"CTS	Red
1"CTS	Black
Black CTS Size	COLOR
1/4"CTS ~ 1"CTS	F.G Green
Metric Size	COLOR
10mm ~ 28mm	F.G Green

Making a perfect connection

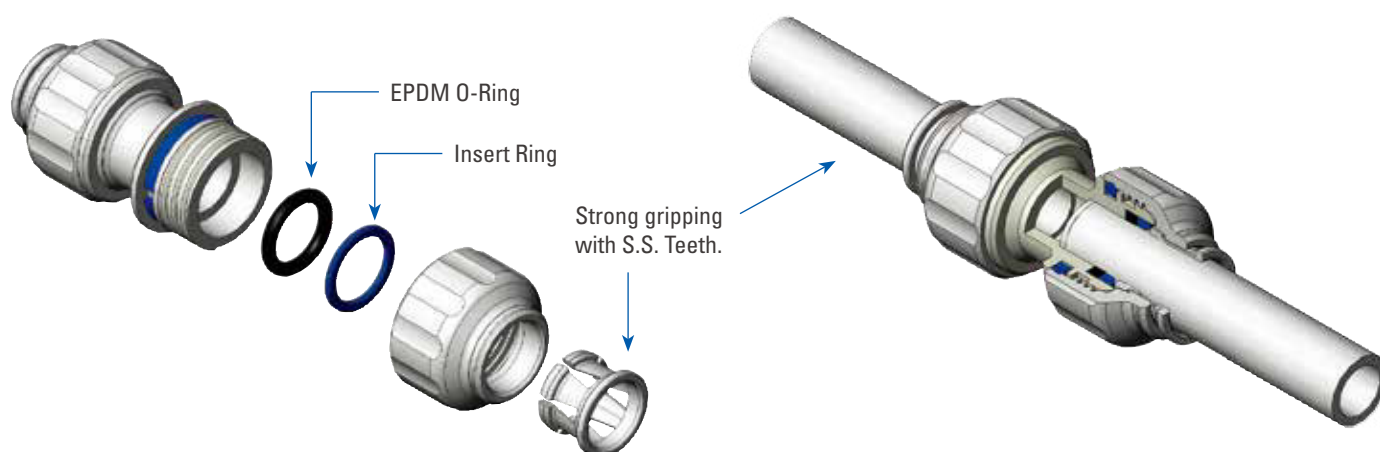
Pipe Cutting

Twistloc® fittings should be delivered in the 'unlocked position', this is evident by the colored ring located between the screw cap and body being visible.

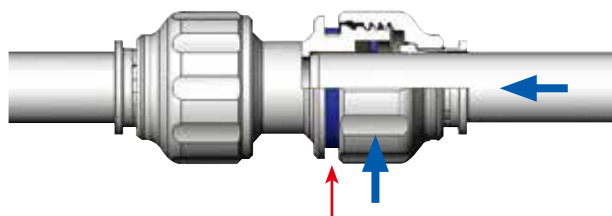
Ensure that all pipe and fittings are not subjected to scratch marks or gouging and are kept free from dirt and debris prior to installation.

When cutting tubing, ensure that the ends are cut square and are free of burrs.

To Lock The Pipe Connection



Ensure that the pipe is pushed into the fitting fully past both the collets (gripper) and the 'O' ring and is engaged properly in accordance with the manufacturer's instructions.



Twist the screw cap until colored ring is no longer visible.

This confirms a proper, secure fit and locks the pipe into position and at the same time increases pressure on the 'O' ring seal around the pipe for greater security.

Pull to check it is secure. It is good practice to test the system prior to leaving the site or before use. If PEX pipe is used, then a tube insert must be used also. The tube insert acts as an internal support for the end of the pipe.



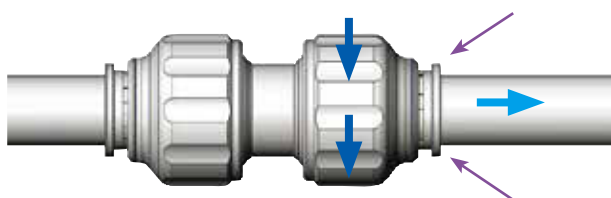
Ensure no scratches, gouges or any form of damage on the circumference of the pipe within one (1) inch (25.4mm) of the cut end. Damage in this area may cause leakage problem.

Check **Twistloc®** fittings for any signs of damage or foreign objects.

When **Twistloc®** fittings have to be disassembled and then reused, ensure that the pipe, removed from the joint, has no damage on the circumference with one(1) inch (25.4mm) of the end. Inspect the tube and fitting for any signs of damage and ensure they are free of foreign materials. **Twistloc®** fittings can then be reassembled.

Ensure **Twistloc®** fittings and pipes are kept clean at all times by keeping them in the bags and boxes provided. Do not empty **Twistloc®** Products onto the floor area.

To Separate the Pipe Connection



Before attempting to disconnect any fitting, make sure that the system is de-pressurized.

Unlock fitting by twisting until colored ring is visible.

Press collets squarely against the face of the fitting. With collets depressed, pull on the pipe to remove it from the fitting.

With the collet depressed pull on the pipe to remove it from the fitting.

Fittings & Valves Performance

Max. Working Pressure @ Max. Working Temp.

250psi @ 73.4°F	150psi @ 150°F	100psi @ 180°F	90psi @ 203°F	45psi @ 221°F
17bar @ 23°C	10bar @ 65°C	6.9bar @ 82.2°C	6bar @ 95°C	3bar @ 105°C

Contents

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White Fittings_CTS Sizes



DROP EAR ELBOW

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SR67101	3/8" CTS	1/2" FIP	300
SR67102	1/2" CTS	1/2" FIP	210



REDUCING CONNECTOR

PART NO	TUBE SIZE	STEM SIZE	BOX QTY
SR67151	1/4" OD	1/2" CTS	570
SR67152	3/8" CTS	1/2" CTS	420
SR67153	1/2" CTS	3/4" CTS	360



ENLARGER CONNECTOR

PART NO	TUBE SIZE	STEM SIZE	BOX QTY
SR67111	1/2" CTS	3/8" CTS	500
SR67112	1" CTS	3/4" CTS	140



TUBE ELBOW UNION

PART NO	TUBE SIZE	STEM SIZE	BOX QTY
SR67191	1/2" CTS	1/2" CTS	400
SR67192	3/4" CTS	3/4" CTS	200
SPTE6711	1/4" CTS	1/4" CTS	600
SPTE6766	1/2" CTS	1/2" CTS	400
SPTE6744	3/4" CTS	3/4" CTS	200



MALE CONNECTOR

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SR67131	3/8" CTS	1/2" MIP	580
SR67132	1/2" CTS	1/2" MIP	390
SR67133	1/2" CTS	3/4" MIP	340
SR67134	3/4" CTS	3/4" MIP	250
SR67135	1" CTS	1" MIP	140



MALE ELBOW

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SR67141	1/2" CTS	1/2" MIP	340



FEMALE ADAPTOR

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SR67121	3/8" CTS	1/2" FIP	430
SR67122	1/2" CTS	1/2" FIP	390
SR67123	1/2" CTS	3/4" FIP	400
SR67124	3/4" CTS	3/4" FIP	250
SR67125	1" CTS	1" FIP	110
SR67126	1/2" CTS	3/4" GH	280



SWIVEL ELBOW UNION _Hand Tighten

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SR67164	1/4" CTS	1/2" NPS	350
SR67161	1/2" CTS	1/2" NPS	320
SR67162	1/2" CTS	3/4" FGH	250
SR67163	1/2" CTS	3/4" Closet	230

NEW



SWIVEL ELBOW UNION _ Brass Nut

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SR67164B	1/4" CTS	1/2" NPS	200
SR67161B	1/2" CTS	1/2" NPS	200
SR67162B	1/2" CTS	3/4" FGH	200
SR67163B	1/2" CTS	3/4" Closet	200

NEW

* Brass, De-Zincification Resistant



SWIVEL UNION CONNECTOR_Hand Tighten

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SPSU6714	1/4" CTS	1/2" NPS	400
SPSU6734	3/8" CTS	1/2" NPS	360 NEW
SR67171	1/2" CTS	1/2" NPS	340
SR67172	1/2" CTS	3/4" FGH	280
SR67173	1/2" CTS	3/4" Closet	280
SPSU6745	3/4" CTS	3/4" Closet	180
SPSU6745G	3/4" CTS	3/4" FGH	180
SPSU6744	3/4" CTS	1/2" FIP	180 NEW



SWIVEL UNION CONNECTOR_ Brass Nut

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SPSU6714B	1/4" CTS	1/2" NPS	250
SPSU6734B	3/8" CTS	1/2" NPS	360 NEW
SR67171B	1/2" CTS	1/2" NPS	200
SR67172B	1/2" CTS	3/4" FGH	200
SR67173B	1/2" CTS	3/4" Closet	200
SPSU6745B	3/4" CTS	3/4" Closet	150
SPSU6745BG	3/4" CTS	3/4" FGH	150

* Brass, De-Zincification Resistant



TUBE END STOP

PART NO	TUBE SIZE	BOX QTY
SPST671	1/4" CTS	1500
SPST673	3/8" CTS	1100 NEW
SPST676	1/2" CTS	600 NEW
SR67181	1/2" CTS	600
SPST674	3/4" CTS	330 NEW
SR67182	3/4" CTS	330
SR67183	1" CTS	200



※ Available color collets



REDUCING ELBOW UNION

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SPE6761	1/2" CTS	1/4" CTS	320
SR67205	3/4" CTS	1/2" CTS	200
SPE6746	3/4" CTS	1/2" CTS	200



ELBOW UNION

PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SPE6711	1/4" CTS	1/4" CTS	500
SPE6733	3/8" CTS	3/8" CTS	425
SR67201	3/8" CTS	3/8" CTS	425
SR67202	1/2" CTS	1/2" CTS	280
SPE6766	1/2" CTS	1/2" CTS	280
SR67203	3/4" CTS	3/4" CTS	160
SPE6744	3/4" CTS	3/4" CTS	160
SR67204	1" CTS	1" CTS	80
SPE6700	1" CTS	1" CTS	80

NEW



UNION CONNECTOR

PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SPU6711	1/4" CTS	1/4" CTS	550
SPU6733	3/8" CTS	3/8" CTS	440
SR67221	3/8" CTS	3/8" CTS	440
SR67223	1/2" CTS	1/2" CTS	290
SPU6766	1/2" CTS	1/2" CTS	290
SR67225	3/4" CTS	3/4" CTS	160
SPU6744	3/4" CTS	3/4" CTS	160
SPU6700	1" CTS	1" CTS	90
SR67227	1" CTS	1" CTS	90

NEW



REDUCING UNION CONNECTOR

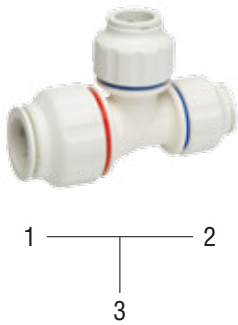
PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SPU6765	1/2" CTS	1/4" OD	450
SPU6761	1/2" CTS	1/4" CTS	400
SR67222	1/2" CTS	3/8" CTS	340
SR67224	3/4" CTS	1/2" CTS	200
SPU6746	3/4" CTS	1/2" CTS	200
SR67226	1" CTS	3/4" CTS	100



TEE UNION

PART NO	TUBE SIZE	TUBE SIZE	TUBE SIZE	BOX QTY
SPT67111	1/4" CTS	1/4" CTS	1/4" CTS	440
SPT67333	3/8" CTS	3/8" CTS	3/8" CTS	290
SR67301	3/8" CTS	3/8" CTS	3/8" CTS	290
SR67303	1/2" CTS	1/2" CTS	1/2" CTS	170
SPT67666	1/2" CTS	1/2" CTS	1/2" CTS	170
SR67305	3/4" CTS	3/4" CTS	3/4" CTS	100
SPT67444	3/4" CTS	3/4" CTS	3/4" CTS	100
SR67306	1" CTS	1" CTS	1" CTS	50
SPT67000	1" CTS	1" CTS	1" CTS	50

NEW



REDUCING TEE UNION

PART NO	TUBE SIZE	TUBE SIZE	TUBE SIZE	BOX QTY	
SPT67611	1/2" CTS	1/4" CTS	1/4" CTS	200	NEW
SR67302	1/2" CTS	1/2" CTS	1/4" OD	180	
SPT67661	1/2" CTS	1/2" CTS	1/4" CTS	160	NEW
SPT67664	1/2" CTS	1/2" CTS	3/4" CTS	130	NEW
SPT67466	3/4" CTS	1/2" CTS	1/2" CTS	130	
SR67310	3/4" CTS	1/2" CTS	1/2" CTS	130	
SPT67464	3/4" CTS	1/2" CTS	3/4" CTS	110	NEW
SPT67441	3/4" CTS	3/4" CTS	1/4" CTS	100	NEW
SR67304	3/4" CTS	3/4" CTS	1/2" CTS	100	
SPT67446	3/4" CTS	3/4" CTS	1/2" CTS	100	
SR67304	3/4" CTS	3/4" CTS	1/2" CTS	100	
SPT67044	1" CTS	3/4" CTS	3/4" CTS	70	NEW
SR67307	1" CTS	3/4" CTS	3/4" CTS	70	
SPT67040	1" CTS	3/4" CTS	1" CTS	60	NEW
SR67308	1" CTS	3/4" CTS	1" CTS	60	
SPT67001	1" CTS	1" CTS	1/4" CTS	70	NEW
SPT67006	1" CTS	1" CTS	1/2" CTS	60	NEW
SPT67004	1" CTS	1" CTS	3/4" CTS	60	NEW
SR67309	1" CTS	1" CTS	3/4" CTS	60	



TUBE TEE UNION _ Branch Tee

PART NO	TUBE SIZE	TUBE SIZE	STEM SIZE	BOX QTY
SR67210	1/2" CTS	1/2" CTS	1/2" CTS	200

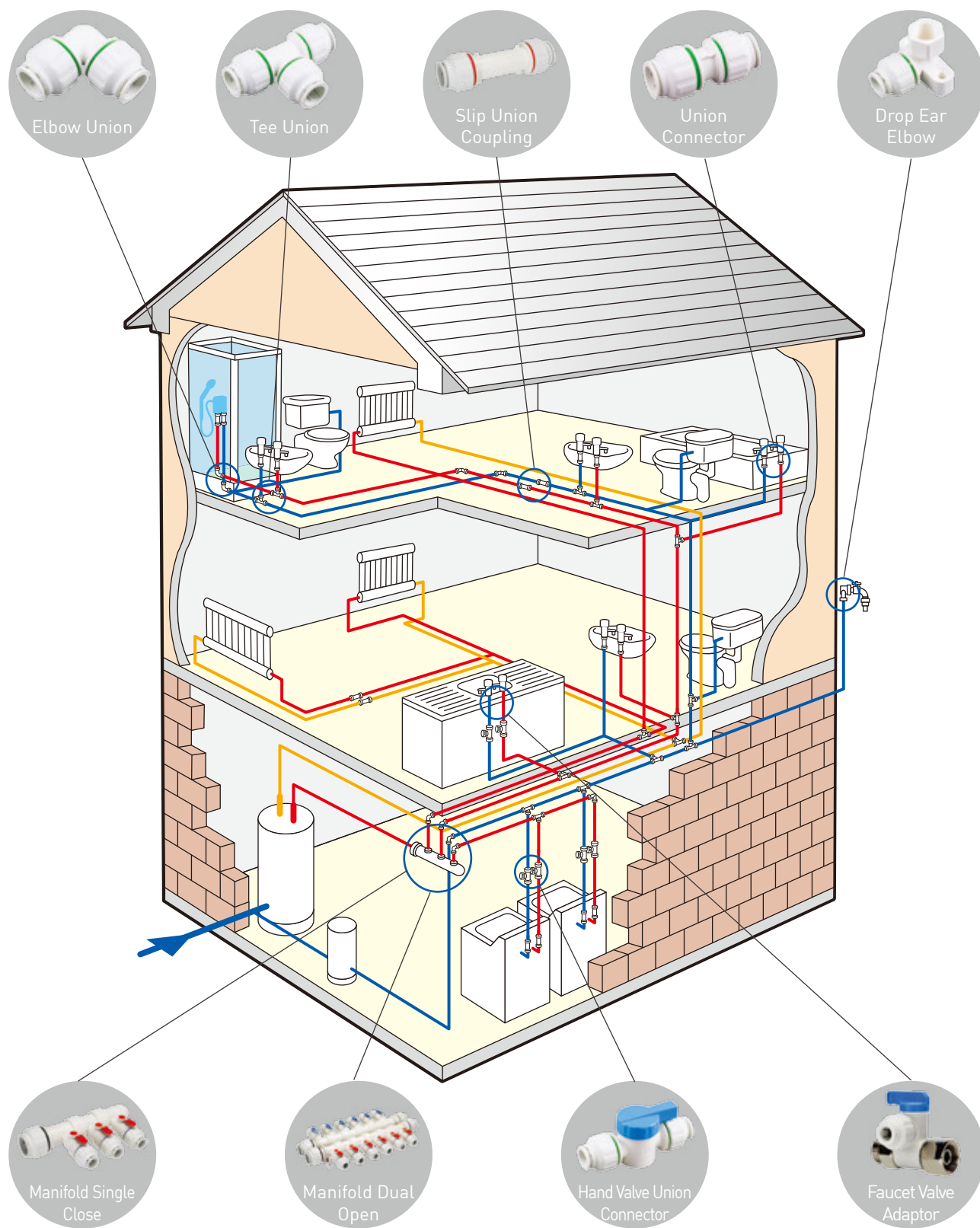


TUBE TEE UNION _ Stackable Tee

PART NO	TUBE SIZE	STEM SIZE	TUBE SIZE	BOX QTY
SR67211	1/2" CTS	1/2" CTS	1/2" CTS	220
SR67212	3/4" CTS	3/4" CTS	3/4" CTS	110



Twistloc® Floorplan



Black fittings_CTS Sizes



The Black Twistloc Fittings are UV Resistant and manufactured from high quality engineered plastic with EPDM O-rings. They are recommended for use in Water Filtration, Water Softeners, RV, Marine, Plumbing Repair, Remodels, New Construction and other applications where UV Resistance is important. These fittings are available in 1/4", 3/8", 1/2", 3/4" and 1" CTS sizes and are suitable for both Hot and Cold Water plumbing applications.



UNION CONNECTOR

PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SPU6711B	1/4" CTS	1/4" CTS	550
SPU6733B	3/8" CTS	3/8" CTS	440
SR67221B	3/8" CTS	3/8" CTS	440
SR67223B	1/2" CTS	1/2" CTS	290
SPU6766B	1/2" CTS	1/2" CTS	290
SR67225B	3/4" CTS	3/4" CTS	160
SPU6744B	3/4" CTS	3/4" CTS	160
SPU6700B	1" CTS	1" CTS	90
SR67227B	1" CTS	1" CTS	90

NEW



ELBOW UNION

PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SPE6711B	1/4" CTS	1/4" CTS	500
SPE6733B	3/8" CTS	3/8" CTS	425
SR67201B	3/8" CTS	3/8" CTS	425
SR67202B	1/2" CTS	1/2" CTS	280
SPE6766B	1/2" CTS	1/2" CTS	280
SR67203B	3/4" CTS	3/4" CTS	160
SPE6744B	3/4" CTS	3/4" CTS	160
SR67204B	1" CTS	1" CTS	80
SPE6700B	1" CTS	1" CTS	80

NEW



TEE UNION

PART NO	TUBE SIZE	TUBE SIZE	TUBE SIZE	BOX QTY
SPT67111B	1/4" CTS	1/4" CTS	1/4" CTS	440
SPT67333B	3/8" CTS	3/8" CTS	3/8" CTS	290
SR67301B	3/8" CTS	3/8" CTS	3/8" CTS	290
SR67303B	1/2" CTS	1/2" CTS	1/2" CTS	170
SPT67666B	1/2" CTS	1/2" CTS	1/2" CTS	170
SR67305B	3/4" CTS	3/4" CTS	3/4" CTS	100
SPT67444B	3/4" CTS	3/4" CTS	3/4" CTS	100
SR67306B	1" CTS	1" CTS	1" CTS	50
SPT67000B	1" CTS	1" CTS	1" CTS	50

NEW



TUBE ELBOW UNION

PART NO	TUBE SIZE	STEM SIZE	BOX QTY
SR67191B	1/2" CTS	1/2" CTS	400
SR67192B	3/4" CTS	3/4" CTS	200
SPTE6711B	1/4" CTS	1/4" CTS	600
SPTE6766B	1/2" CTS	1/2" CTS	400
SPTE6744B	3/4" CTS	3/4" CTS	200



REDUCING UNION CONNECTOR

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SPU6765B	1/2" CTS	1/4" OD	450
SPU6761B	1/2" CTS	1/4" CTS	400
SR67222B	1/2" CTS	3/8" CTS	340
SR67224B	3/4" CTS	1/2" CTS	200
SPU6746B	3/4" CTS	1/2" CTS	200
SR67226B	1" CTS	3/4" CTS	100



MALE CONNECTOR

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SBR67131B	3/8" CTS	1/2" MIP	580
SBR67132B	1/2" CTS	1/2" MIP	390
SBR67133B	1/2" CTS	3/4" MIP	340
SBR67134B	3/4" CTS	3/4" MIP	250
SBR67135B	1" CTS	1" MIP	140



MALE ELBOW

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SR67141B	1/2" CTS	1/2" MIP	340

White Fittings_Metric Sizes



DROP EAR ELBOW

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SRDE6764M	15mm	1/2" BSP	160
SRDE6774M	16mm	1/2" BSP	150



REDUCING CONNECTOR

PART NO	TUBE SIZE	STEM SIZE	BOX QTY
SPR6716M	10mm	15mm	450
SPR6737M	12mm	16mm	400
SPR6767M	15mm	16mm	250
SPR6764M	15mm	22mm	200
SPR6760M	15mm	28mm	100
SPR6772M	16mm	20mm	200
SPR6740M	22mm	28mm	100

NEW

NEW

NEW

NEW

NEW

NEW



TUBE ELBOW UNION

PART NO	TUBE SIZE	STEM SIZE	BOX QTY
SPTE6711M	10mm	10mm	600
SPTE6716M	10mm	15mm	500
SPTE6733M	12mm	12mm	500
SPTE6766M	15mm	15mm	400
SPTE6777M	16mm	16mm	400
SPTE6722M	20mm	20mm	200
SPTE6744M	22mm	22mm	200

NEW

NEW

NEW

NEW



MALE CONNECTOR

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SRMC6764M	15mm	1/2" BSPT	390
SRMC6774M	16mm	1/2" BSPT	390

NEW

NEW



MALE ELBOW

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SRME6764M	15mm	1/2" BSPT	340
SRME6774M	16mm	1/2" BSPT	340

NEW

NEW

FEMALE ADAPTOR



PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SRF6764M	15mm	1/2" BSP	430
SRF6765M	15mm	3/4" BSP	400
SRF6774M	16mm	1/2" BSP	420
SRF6775M	16mm	3/4" BSP	390
SRF6745M	22mm	3/4" BSP	250
SRF6701M	28mm	1" BSP	110

SWIVEL UNION CONNECTOR_Hand Tighten



PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SPSU6714M	10mm	1/2" BSP	400
SPSU6734M	12mm	1/2" BSP	360
SRSU6764M	15mm	1/2" BSP	340
SRSU6765M	15mm	3/4" BSP	280
SRSU6774M	16mm	1/2" BSP	340
SRSU6775M	16mm	3/4" BSP	280
SRSU6725M	20mm	3/4" BSP	180
SPSU6745M	22mm	3/4" BSP	180

NEW

NEW

SWIVEL UNION CONNECTOR _ Brass Nut



PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SPSU6714BM	10mm	1/2" BSP	250
SPSU6734BM	12mm	1/2" BSP	220
SRSU6764BM	15mm	1/2" BSP	200
SRSU6765BM	15mm	3/4" BSP	200
SRSU6774BM	16mm	1/2" BSP	200
SRSU6775BM	16mm	3/4" BSP	200
SRSU6725BM	20mm	3/4" BSP	180
SPSU6745BM	22mm	3/4" BSP	150

NEW

NEW

* Brass, De-Zincification Resistant

SWIVEL ELBOW UNION_Hand Tighten



PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SRSE6714M	10mm	1/2" BSP	400
SRSE6764M	15mm	1/2" BSP	300
SRSE6765M	15mm	3/4" BSP	270
SRSE6774M	16mm	1/2" BSP	290
SRSE6775M	16mm	3/4" BSP	260

NEW

SWIVEL ELBOW UNION _ Brass Nut



PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SRSE6714BM	10mm	1/2" BSP	250
SRSE6764BM	15mm	1/2" BSP	200
SRSE6765BM	15mm	3/4" BSP	200
SRSE6774BM	16mm	1/2" BSP	200
SRSE6775BM	16mm	3/4" BSP	200

NEW

* Brass, De-Zincification Resistant

TUBE END STOP



PART NO	TUBE SIZE	BOX QTY
SPST671M	10mm	1100
SPST673M	12mm	800
SRST676M	15mm	600
SPST676M	15mm	600
SPST677M	16mm	600
SPST672M	20mm	330
SRST674M	22mm	330
SPST674M	22mm	330
SRST670M	28mm	200

NEW

NEW

NEW



※ Available color collets

ELBOW UNION



PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SPE6711M	10mm	10mm	500
SPE6733M	12mm	12mm	400
SPE6766M	15mm	15mm	280
SPE6777M	16mm	16mm	270
SPE6722M	20mm	20mm	150
SPE6744M	22mm	22mm	160
SPE6700M	28mm	28mm	80

NEW

REDUCING ELBOW



PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SPE6761M	15mm	10mm	320
SPE6746M	22mm	15mm	200

UNION CONNECTOR



PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SPU6711M	10mm	10mm	550
SPU6733M	12mm	12mm	460
SPU6766M	15mm	15mm	290
SPU6777M	16mm	16mm	275
SPU6722M	20mm	20mm	150
SPU6744M	22mm	22mm	160
SPU6700M	28mm	28mm	90

NEW

REDUCING UNION CONNECTOR



PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SPU6761M	15mm	10mm	400
SPU6771M	16mm	10mm	400
SPU6746M	22mm	15mm	200
SRU6746M	22mm	15mm	200
SPU6747M	22mm	16mm	200

NEW

NEW



TEE UNION

PART NO	TUBE SIZE	TUBE SIZE	TUBE SIZE	BOX QTY
SPT67111M	10mm	10mm	10mm	440
SPT67333M	12mm	12mm	12mm	440 NEW
SPT67666M	15mm	15mm	15mm	170
SPT67777M	16mm	16mm	16mm	160
SPT67222M	20mm	20mm	20mm	90
SPT67444M	22mm	22mm	22mm	100
SPT67000M	28mm	28mm	28mm	50



REDUCING TEE UNION

PART NO	TUBE SIZE	TUBE SIZE	TUBE SIZE	BOX QTY
SPT67611M	15mm	10mm	10mm	200 NEW
SPT67661M	15mm	15mm	10mm	180 NEW
SPT67664M	15mm	15mm	22mm	160 NEW
SPT67277M	20mm	16mm	16mm	120
SPT67227M	20mm	20mm	16mm	100
SPT67466M	22mm	15mm	15mm	130 NEW
SRT67466M	22mm	15mm	15mm	130 NEW
SPT67464M	22mm	15mm	22mm	110
SPT67477M	22mm	16mm	16mm	130
SPT67441M	22mm	22mm	10mm	115 NEW
SPT67446M	22mm	22mm	15mm	110
SRT67446M	22mm	22mm	15mm	110
SPT67447M	22mm	22mm	16mm	110
SPT67044M	28mm	22mm	22mm	70 NEW
SPT67040M	28mm	22mm	28mm	60 NEW
SPT67001M	28mm	28mm	10mm	70 NEW
SPT67006M	28mm	28mm	15mm	70 NEW
SPT67004M	28mm	28mm	22mm	60 NEW



TUBE TEE UNION

PART NO	TUBE SIZE	STEM SIZE	TUBE SIZE	BOX QTY
SPTT67333M	12mm	12mm	12mm	250 NEW
SPTT67441M	22mm	22mm	22mm	110 NEW
SPTT67446M	22mm	22mm	15mm	110 NEW



4-WAY Manifold

PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SRFWC6741M	22mm	10mm	150



TANK CONNECTOR_ NOT SUITABLE HEATING SYSTEMS

PART NO	TUBE SIZE	BOX QTY
ATC66M	15mm	100
ATC44M	22mm	75
ATC00M	28mm	50

Grey Fittings_Metric Sizes

NEW



REDUCING CONNECTOR

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SPR6716MG	10mm	15mm	450
SPR6737MG	12mm	16mm	400
SPR6767MG	15mm	16mm	250
SPR6764MG	15mm	22mm	200
SPR6760MG	15mm	28mm	100
SPR6772MG	16mm	20mm	200
SPR6740MG	22mm	28mm	100



TUBE ELBOW UNION

PART NO	TUBE SIZE	STEM SIZE	BOX QTY
SPTE6711MG	10mm	10mm	600
SPTE6716MG	10mm	15mm	500
SPTE6733MG	12mm	12mm	500
SPTE6766MG	15mm	15mm	400
SPTE6777MG	16mm	16mm	400
SPTE6722MG	20mm	20mm	200
SPTE6744MG	22mm	22mm	200



TUBE END STOP

PART NO	TUBE SIZE	BOX QTY
SPST671MG	10mm	1100
SPST673MG	12mm	800
SPST676MG	15mm	600
SPST677MG	16mm	600
SPST672MG	20mm	330
SPST674MG	22mm	330



ELBOW UNION

PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SPE6711MG	10mm	10mm	500
SPE6733MG	12mm	12mm	400
SPE6766MG	15mm	15mm	280
SPE6777MG	16mm	16mm	270
SPE6722MG	20mm	20mm	150
SPE6744MG	22mm	22mm	160
SPE6700MG	28mm	28mm	80



REDUCING ELBOW

PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SPE6761MG	15mm	10mm	320
SPE6746MG	22mm	15mm	200



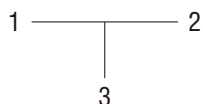
UNION CONNECTOR

PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SPU6711MG	10mm	10mm	550
SPU6733MG	12mm	12mm	460
SPU6766MG	15mm	15mm	290
SPU6777MG	16mm	16mm	275
SPU6722MG	20mm	20mm	150
SPU6744MG	22mm	22mm	160
SPU6700MG	28mm	28mm	90



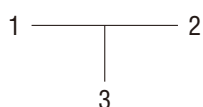
REDUCING UNION CONNECTOR

PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SPU6761MG	15mm	10mm	400
SPU6771MG	16mm	10mm	400
SPU6746MG	22mm	15mm	200
SPU6747MG	22mm	16mm	200



TEE UNION

PART NO	TUBE SIZE	TUBE SIZE	TUBE SIZE	BOX QTY
SPT67111MG	10mm	10mm	10mm	440
SPT67333MG	12mm	12mm	12mm	440
SPT67666MG	15mm	15mm	15mm	170
SPT67777MG	16mm	16mm	16mm	160
SPT67222MG	20mm	20mm	20mm	90
SPT67444MG	22mm	22mm	22mm	80
SPT67000MG	28mm	28mm	28mm	50



REDUCING TEE UNION

PART NO	TUBE SIZE	TUBE SIZE	TUBE SIZE	BOX QTY
SPT67611MG	15mm	10mm	10mm	200
SPT67661MG	15mm	15mm	10mm	180
SPT67664MG	15mm	15mm	22mm	160
SPT67277MG	20mm	16mm	16mm	120
SPT67227MG	20mm	20mm	16mm	100
SPT67464MG	22mm	15mm	22mm	110
SPT67466MG	22mm	15mm	15mm	130
SPT67477MG	22mm	16mm	16mm	130
SPT67441MG	22mm	22mm	10mm	115
SPT67446MG	22mm	22mm	15mm	110
SPT67447MG	22mm	22mm	16mm	110
SPT67044MG	28mm	22mm	22mm	70
SPT67040MG	28mm	22mm	28mm	60
SPT67001MG	28mm	28mm	10mm	70
SPT67006MG	28mm	28mm	15mm	70
SPT67004MG	28mm	28mm	22mm	60

Brass Fittings_Metric Sizes

NEW



BRASS FEMALE ADAPTOR

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SBFA6764M	15mm	1/2" BSP	150
SBFA6745M	22mm	3/4" BSP	100



BRASS FEMALE CYLINDER ADAPTOR

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SBFCA6764M	15mm	1/2" BSP	150
SBFCA6745M	22mm	3/4" BSP	100



BRASS MALE STEM ADAPTOR

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SBMSA6764M	15mm	1/2" BSP	150
SBMSA6745M	22mm	3/4" BSP	100



BRASS FEMALE STEM ADAPTOR

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SBFSA6764M	15mm	1/2" BSP	150
SBFSA6745M	22mm	3/4" BSP	100



BRASS MALE CONNECTOR

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SBMC6764M	15mm	1/2" BSP	150
SBMC6745M	22mm	3/4" BSP	100



BRASS MALE CYLINDER CONNECTOR

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SBMCC6764M	15mm	1/2" BSP	150
SBMCC6745M	22mm	3/4" BSP	100



BRASS BACK PLATE ELBOW

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SBBPE6764M	15mm	1/2" BSP	100
SBPEE6745M	22mm	3/4" BSP	70

Valves_CTS & Metric Sizes



HAND VALVE UNION

PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SV67221	3/8" CTS	3/8" CTS	200
SV67223	1/2" CTS	1/2" CTS	125
SV67224	3/4" CTS	3/4" CTS	75
SVHU6766M	15mm	15mm	100
SVHU6777M	16mm	16mm	125
SVHU6744M	22mm	22mm	70



REDUCING HAND VALVE UNION

PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SV67222	1/2" CTS	1/4" OD	140
SV67225	1/2" CTS	3/8" CTS	130
SVHU6761M	15mm	10mm	130



HAND VALVE FEMALE

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SV67101	1/4" CTS	1/2" NPS	200
SVF6714M	10mm	1/2" BSP	200



ANGLE VALVE

PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SV67211	1/4" CTS	1/2" CTS	210
SV67212	3/8" CTS	1/2" CTS	200
SVE6716M	10mm	15mm	200



ANGLE VALVE FEMALE

PART NO	TUBE SIZE	THREAD SIZE	BOX QTY
SVA6714	1/4" CTS	1/2" NPS	200
SVA6734	3/8" CTS	1/2" NPS	180
SVA6714M	10mm	1/2" BSP	180

Manifolds_CTS & Metric Sizes



Twistloc® Manifolds combine push-fit technology with the value-added advantages of a manifold. **Twistloc®** Manifolds are designed to simplify manifold and pipe installation in Copper, cPVC, PE-RT, PB and PEX pipe, water or hydronic heating systems. **Twistloc®** manifold control unit being tested to requirements of IGC109 and certified by NSF International.

Twistloc® manifold supply inlet connections utilize a special 1"CTS or 28mm OD connection that requires transition fittings. Connections for the individual pipe distribution lines are push-fit type of fittings. Use only fittings supplied with **Twistloc®** or other fittings designed for special port transitions which are available from your Twistloc distributor.

SYSTEM ADVANTAGES AND BENEFITS

- Easy to Install
- Save time and money
 - Push-fit Connection
 - All white plastic system
- Installation Flexibility
- Corrosion Resistant
- No lead, non toxic
- No scale deposits
- No risk of flame or fire from a blowtorch
- Low heat diffusion ensures safe surface temperature
- Plumbing flexibility reduces the risk of burst under freezing temperature
- Permanent anti-leak connection
- Light weight for easy handling at sites
- Strong gripping suitable for heating systems

Typical Supply line size : All inlets are 1"CTS(28mm) and use a reducing stem connector to create other inlet sizes.

Typical Distribution line size : 1/2" CTS (15mm)

● Performance

Max. Working Pressure @ Max. Working Temperature

250psi @ 73.4° F	150psi @ 150° F	100psi @ 180° F
17bar @ 23° C	10bar @ 65° C	6.9bar @ 82.2° C

In order to maximize the maximum water and energy savings of **Twistloc®** manifold system, it is recommended to use the smallest distribution line size that satisfy the flow rate and pressure requirements of each individual fixture. Using lines in sizes larger than necessary can increase hot water delivery time.

Measures such as: increasing the line size up to 1/2"(15mm), relocating the **Twistloc®** manifold to reduce line length(s), installing a separate **Twistloc®** manifold close to an outlying group of fixtures, or running the line(s) in a more direct (shorter) path may alleviate a potential problem.

If the hose bibbs are primarily for irrigation purposes, they should be supplied from the main service line prior to **Twistloc®** manifold. The service line should have sizes appropriate for the additional water demand.



MANIFOLD SINGLE _ Close

PART NO	Inlet	Outlet_Branch	BOX QTY
SMF6706S-3P-C	1" CTS	1/2" CTS	12
SMF6706S-4P-C	1" CTS	1/2" CTS	12
SMF6706S-5P-C	1" CTS	1/2" CTS	10
SMF6706S-6P-C	1" CTS	1/2" CTS	12
SMF6706SM-3P-C	28mm	15mm	12
SMF6706SM-4P-C	28mm	15mm	12
SMF6706SM-5P-C	28mm	15mm	10
SMF6706SM-6P-C	28mm	15mm	12

※ 16mm, 20mm & 22mm Outlet branch are available.



MANIFOLD SINGLE _ Open

PART NO	Inlet	Outlet_Branch	BOX QTY
SMF6706S-3P	1" CTS	1/2" CTS	12
SMF6706S-4P	1" CTS	1/2" CTS	12
SMF6706S-5P	1" CTS	1/2" CTS	10
SMF6706S-6P	1" CTS	1/2" CTS	12
SMF6706SM-3P	28mm	15mm	12
SMF6706SM-4P	28mm	15mm	12
SMF6706SM-5P	28mm	15mm	10
SMF6706SM-6P	28mm	15mm	12

※ 16mm, 20mm & 22mm Outlet branch are available.

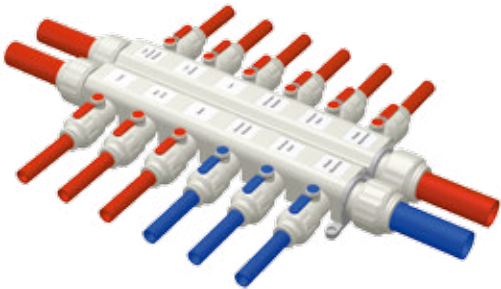


MANIFOLD DUAL _ Open

PART NO	Inlet	Outlet_Branch	BOX QTY
SMF6706D-6P	1" CTS	1/2" CTS	6
SMF6706D-8P	1" CTS	1/2" CTS	6
SMF6706D-10P	1" CTS	1/2" CTS	5
SMF6706D-12P	1" CTS	1/2" CTS	6
SMF6706DM-6P	28mm	15mm	6
SMF6706DM-8P	28mm	15mm	6
SMF6706DM-10P	28mm	15mm	5
SMF6706DM-12P	28mm	15mm	6

※ 16mm, 20mm & 22mm Outlet branch are available.

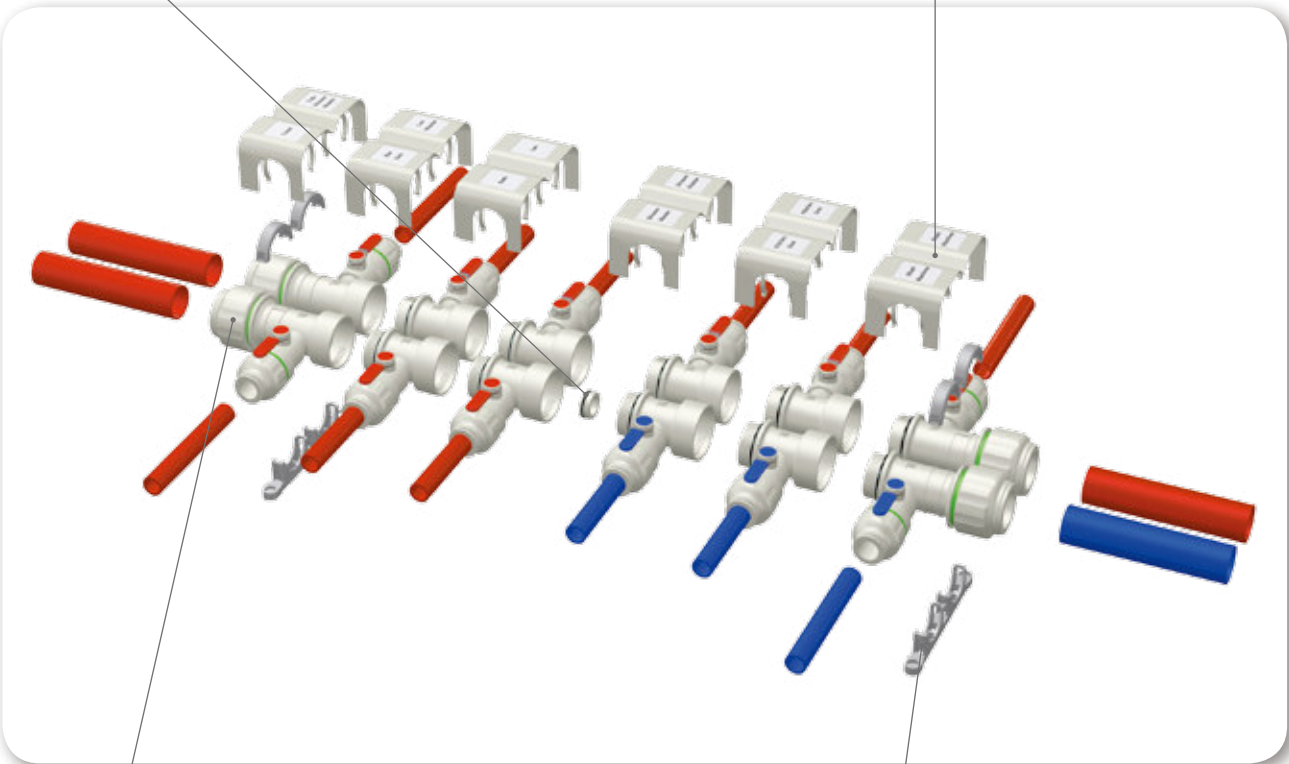
MANIFOLD ASSEMBLY DIAGRAMS



Divider Hot / Cold water Supply



Put label on plate



Conversion Reducer
1"CTS and 28mm Inlet to
3/4"CTS and 22mm Inlet



Bracket Mounting Kit

I INSTALLATION GUIDE

These Installation Instructions contain information on the installation of **Twistloc®** Manifolds hot/cold potable water distribution system Copper, cPVC, PE-RT, PB and PEX pipes.

The installer shall be responsible for ensuring that **Twistloc®** Manifolds, PEX tubing and other components on hand are appropriate for the intended applications, and that **Twistloc®** Manifolds are installed in accordance with these installation instructions and local plumbing codes.

Nothing in this publication is intended to create any warranty beyond SNC's warranty applicable to **Twistloc®** manifold plumbing system.

NOTE: These instructions should be used to install **Twistloc®** Manifolds. Instructions specific to **Twistloc®** Manifolds will be contained in an instruction sheet provided with **Twistloc®** Manifolds.

- Keep **Twistloc®** manifolds in the original shipping carton until they are installed. Protect **Twistloc®** manifold from debris, wood chips, drywall mud or dust, paint, sand, etc., before, during and after installation. **Twistloc®** manifold shall be covered during application of interior finishing materials such as paints, stains and textured coatings.
- DO NOT apply any impact force to **Twistloc®** manifolds.
- DO NOT disassemble **Twistloc®** manifolds.
- DO NOT adjust the tie rod bolts. They are preset in the factory.
- **Twistloc®** manifold and **Twistloc®** fittings are plastic materials and thus they should be treated differently from metals. *
- **Twistloc®** manifold and fittings may melt, crack or distort if exposed to open flame or excessive heat.
- Install **Twistloc®** manifold in an accessible place which is not exposed to freezing temperatures or direct sunlight.
- Prevent fluids in **Twistloc®** manifold from freezing.
- DO NOT use pipe dope, thread sealants or Teflon® paste in order to seal threaded fittings. All of the connections to **Twistloc®** manifold are a mechanical compression type, or seal with a rubber gasket and do not require any other forms of sealant.
- Prevent **Twistloc®** manifold from coming into contact with cPVC or PVC cements or cleaners, acids such as solder fluxes, strong oxidizing agents, highly alkaline solutions, lubricants, leak check compounds, bug sprays, cleaners, paints, bleaches, or other chemicals which could adversely affect the plastic. Avoid using solder flux or solvent cements adjacent to **Twistloc®** manifold.
- DO NOT use standard pipe fittings on **Twistloc®** manifold. All distribution line connections shall be made with fittings supplied with each **Twistloc®** manifold or other SNC approved connections. All supply line connections to **Twistloc®** manifold shall be made only with **Twistloc®** fittings available from SNC.
- Distribution lines shall enter or exit **Twistloc®** manifold in a straight line parallel to the length of **Twistloc®** manifold.
- **Twistloc®** manifold plumbing system relies upon the proper fastening of distribution line **Twistloc®** connections. Failure to complete all connections will result in leakage.
- **If these installation guidelines conflict or are inconsistent with local building or plumbing codes, any codes applicable to parallel plumbing systems shall prevail.**

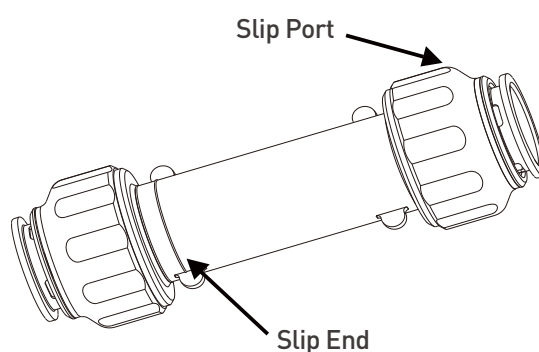
Repair Couplings_CTS & Metric Sizes



Twistloc® Slip Connectors are designed to be suitable for Copper, cPVC, PE-RT, PB and PEX pipes. **Twistloc®** connectors offer the lowest material cost. When you need to repair a pipe line, **Twistloc®** slip connectors offer greater efficiency than traditional fittings.

ADVANTAGES & BENEFITS

- **Save time and money**
Push-fit Connection
- **All white plastic system**
Easy To Repair
- **Strong Gripping Strength**
Suitable and safe for heating and plumbing systems
- **Permanent anti-leak connection**
Perfect connection with Push and twist and lock system
- **Visible Connection** Easy recognition of size by color
Easy verification of coupling (lock/unlock) status at a long distance
- **Flexibility enables cabling works on the pipe through hard access area**
Light weight for easy handling at sites.
- **No Tools Required**
- **PATENT PENDING**



PERFORMANCE

Max. Working Pressure @ Max. Working Temp.

180psi @ 68°F	90psi @ 203°F	45psi @ 221°F
12bar @ 20°C	6bar @ 95°C	3bar @ 105°C

5"
(13cm)
Long



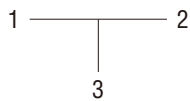
SLIP UNION COUPLING

PART NO	TUBE SIZE	TUBE SIZE	BOX QTY
SR67223S	1/2" CTS	1/2" CTS	150
SR67225S	3/4" CTS	3/4" CTS	100
SRU6766SM	15mm	15mm	150
SRU6777SM	16mm	16mm	90
SRU6744SM	22mm	22mm	100



SLIP TEE UNION

PART NO	TUBE SIZE	TUBE SIZE	TUBE SIZE	BOX QTY
SR67302S	1/2" CTS	1/2" CTS	1/4" OD	130



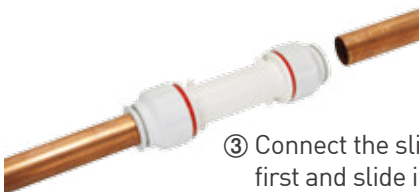
HOW TO REPAIR



① Ensure that the damaged pipe is kept clean



② Cut the damaged pipe less the instructed length 'C' shown in our specification.



③ Connect the slip port with the pipe first and slide it until the connection is adjusted with the opposite side.



④ Connect to the other pipe and arrange the connection position.

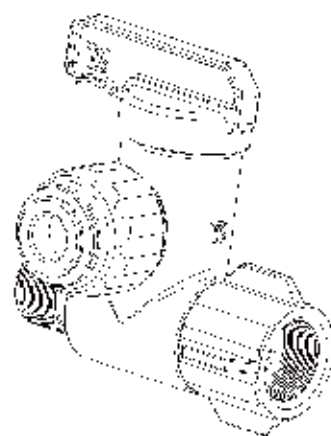
Installation Solution *_CTS & Metric Sizes*



Twistloc® Stop & Faucet Valve Adaptor valves and Slip Tee Valves are manufactured in white Polypropylene, reinforced plastic which provides value-added advantages in the installation of water supply line mainly. **Twistloc®** Stop & Faucet Valve Adaptors and Slip Tee Valves are designed for use in drinking water systems, Refrigerators, Ice-Makers, Humidifiers and Water filtration applications, etc.,. Our valves offer greater efficiency than any traditional valves.

ADVANTAGES & BENEFITS

- Easy to Install
- Save time and money
- Push-fit Connection
- All white plastic system
Better positioning with Swivel 90° Turn ON / OFF
- No Tools required Hand tighten
- Visible Connection
Easy recognition of size by color
Easy verification of coupling (lock/unlock) status at a long distance
- Strong Gripping Strength
Suitable and safe for heating and plumbing systems
- Permanent anti-leak connection
Perfect connection with Push and twist and lock system
- Flexibility enables cabling works on the pipe through hard access area
Light weight for easy handling at sites.



- Conversion adaptor can be assembled with 1/2" x 1/2" NPS,BSP or 3/8" x 3/8" Compression,BSP (See p.34)

PERFORMANCE

Max. Working Pressure @ Max. Working Temp.

180psi @ 68°F	150psi @ 150°F
12bar @ 20°C	10bar @ 65°C



STOP VALVE ADAPTOR _NPS

PART NO	TUBE OD	Male THREAD SIZE	Female THREAD SIZE	BOX QTY
AVA6753CP	1/4"	3/8" Comp.	3/8" Comp	350
AVA6713CP	3/8"	3/8" Comp.	3/8" Comp	300



STOP VALVE ADAPTOR _BSP

PART NO	TUBE OD	Male THREAD SIZE	Female THREAD SIZE	BOX QTY
AVA6753B	1/4"	3/8" BSP	1/2" BSP	300 NEW
AVA6713B	3/8"	3/8" BSP	1/2" BSP	250 NEW
AVA67534B	1/4"	3/8" BSP	1/2" BSP	300 NEW
AVA67134B	3/8"	3/8" BSP	1/2" BSP	250 NEW



STOP VALVE ADAPTOR _ Brass Shaft

PART NO	TUBE OD	Male THREAD SIZE	Female THREAD SIZE	BOX QTY
AVA6753BCP	1/4"	3/8" Comp	3/8" Comp	200
AVA6713BCP	3/8"	3/8" Comp	3/8" Comp	200
AVA6753BB	1/4"	3/8" BSP	3/8" BSP	150
AVA6713BB	3/8"	3/8" BSP	3/8" BSP	150



FAUCET VALVE ADAPTOR_Hand Tighten

PART NO	TUBE OD	Male THREAD SIZE	Female THREAD SIZE	BOX QTY
AVA6754	1/4"	1/2" NPS	1/2" NPS	240
AVA6714	3/8"	1/2" NPS	1/2" NPS	200
AVA6754BP	1/4"	1/2" BSP	1/2" BSP	240
AVA6714BP	3/8"	1/2" BSP	1/2" BSP	200

※ How to Install



- ① Shut off your existing Stop valve and disconnect the riser from the valve.
- ② Connect our Stop valve to the water valve.
- ③ Connect the riser to our valve.
- ④ Ensure the Perfect Connection Every Time.



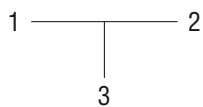
FAUCET VALVE ADAPTOR _ Brass Shaft

PART NO	TUBE OD	Male THREAD SIZE	Female THREAD SIZE	BOX QTY
AVA6754B	1/4"	1/2" NPS	1/2" NPS	75
AVA6714B	3/8"	1/2" NPS	1/2" NPS	75
AVA6754BB	1/4"	1/2" BSP	1/2" BSP	75
AVA6714BB	3/8"	1/2" BSP	1/2" BSP	75



FAUCET VALVE ADAPTOR _ Reducing Brass Shaft

PART NO	TUBE OD	Male THREAD SIZE	Female THREAD SIZE	BOX QTY
AVA67534BCP	1/4"	3/8" COMP	1/2" NPS	75
AVA67134BCP	3/8"	3/8" COMP	1/2" NPS	75
AVA67534BB	1/4"	3/8" COMP	1/2" BSP	75
AVA67134BB	3/8"	3/8" COMP	1/2" BSP	75



SLIP TEE VALVE

PART NO	TUBE OD	TUBE OD	TUBE OD	BOX QTY
AVT67661S	5/8"	5/8"	3/8"	110
AVT67665S	5/8"	5/8"	1/4"	120
AVT67445S	7/8"	7/8"	1/4"	100
AVT67665SM	15mm	15mm	1/4"	120
AVT67775SM	16mm	16mm	1/4"	120
AVT67661SM	15mm	15mm	3/8"	110
AVT67771SM	16mm	16mm	3/8"	110
AVT67445SM	22mm	22mm	1/4"	110

Hose Connector



HOSE CONNECTOR_REDUCER

PART NO	TUBE SIZE	STEM SIZE Short	BOX QTY
AR67101	1/2"	3/4"	450
AR6764M	15mm	22mm	450



BARB CONNECTOR

PART NO	TUBE SIZE	BARB SIZE	BOX QTY
AR67111	3/4"	1/2"	250
AR6743M	22mm	1/2"	250



Backflow Prevention



Angle Check valve

Twistloc® Backflow Prevention Valves offer great security and will not pollute your water system. It's simple design featuring a ¼ turn ON/Off along with ease of installation saves the end user time and money while providing them with a very effective water supply system.

This device is NOT suitable for Heating Systems.

Applications :

- Vending Machines
- Water Purifiers
- Water Cooler
- Coffee & Beverage Machines

Benefits :

1. Ease of installation in tight spaces
2. Maximum Security preventing the pollution of your water system
3. Food grade materials.
4. Valves are designed for easy connection to existing water supply lines

Max. Working Pressure @ Max. Working Temp.

180psi @ 68°F	150psi @ 150°F
12bar @ 20°C	10bar @ 65°C



* Conversion adaptor can be assembled with 1/2" x 1/2" NPS,BSP or 3/8" x 3/8" Compression,BSP [See p.34]



ANGLE CHECK VALVE _ Brass Shaft

PART NO	TUBE OD	Male THREAD SIZE	Female THREAD SIZE	BOX QTY
CVA6753BCP	1/4" OD	3/8" Comp	3/8" Comp	150
CVA6713BCP	3/8" OD	3/8" Comp	3/8" Comp	150
CVA6754B	1/4" OD	1/2" NPS	1/2" NPS	75
CVA6714B	3/8" OD	1/2" NPS	1/2" NPS	75
CVA6753BB	1/4" OD	3/8" BSP	3/8" BSP	150
CVA6713BB	3/8" OD	3/8" BSP	3/8" BSP	150
CVA6754BB	1/4" OD	1/2" BSP	1/2" BSP	75
CVA6714BB	3/8" OD	1/2" BSP	1/2" BSP	75



ANGLE CHECK VALVE _Hand Tighten

PART NO	TUBE OD	Male THREAD SIZE	Female THREAD SIZE	BOX QTY	
CVA6753B	1/4" OD	3/8" BSP	3/8" BSP	150	NEW
CVA6713B	3/8" OD	3/8" BSP	3/8" BSP	150	NEW
CVA67534B	1/4" OD	3/8" BSP	1/2" BSP	75	NEW
CVA67134B	3/8" OD	3/8" BSP	1/2" BSP	150	NEW

Accessories



SINGLE BRACKET

PART NO	SIZE	BOX QTY
SMBS12	For Manifold Single	400



DUAL BRACKET

PART NO	SIZE	BOX QTY
SMBD12	For Manifold Dual	250



SINGLE COVER

PART NO	SIZE	BOX QTY
SSC12	For Manifold Single	200



DUAL COVER

PART NO	SIZE	BOX QTY
SDC12	For Manifold Dual	100



PIPE BEND

PART NO	SIZE	BOX QTY
SPB08	Up to 1/2" CTS Up to 15mm	200
SPB10	Up to 3/4" CTS Up to 22mm	100



HEAVY PIPE CUTTER

PART NO	TUBE SIZE	BOX QTY
TLC-HPC	Up to 1" CTS Up to 28mm	20



TUBE INSERT

PART NO	TUBE SIZE	BOX QTY
STS06	1/4" CTS	9,000
STS07	3/8" CTS	5,000
STS08	1/2" CTS	3,600
STS10	3/4" CTS	1,000
STS12	1" CTS	600
STS12M	12mm	3,600
STS15M	15mm	3,600
STS16M	16mm	3,600
STS20M	20mm	1,000
STS22M	22mm	1,000
STS28M	28mm	600



CONVERSION ADAPTOR_BRASS

PART NO	SIZE	BOX QTY
ADP06M07F	3/8" COMP x 1/2" NPS	200
ADP07M06F	1/2" NPS x 3/8" COMP	200
ADP06M07FB	3/8" MBSP x 1/2" FBSP	200
ADP07M06FB	1/2" MBSP x 3/8" FBSP	200



CONVERSION ADAPTOR_Hand Tighten

PART NO	SIZE	BOX QTY
ADP06M07FP	M3/8" BSP x F1/2" BSP	200
ADP07M06FP	M1/2" BSP x F3/8" BSP	200
ADP0607	M1/2" NPS x F3/8" CP	200
ADP0706	M3/8" CP x F1/2" NPS	200



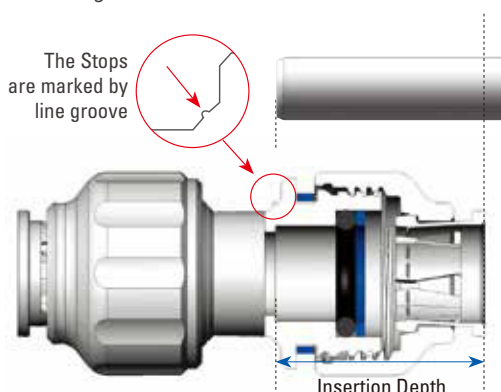
PIPE CUTTER

PART NO	TUBE SIZE	BOX QTY
TLC-PC	Up to 3/4" CTS Up to 22mm	50

Technical Information

PIPE CUTTING

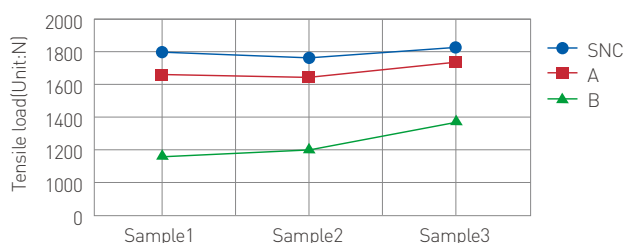
Pipe stops / Insertion depths are located at the following distances from the fitting end.



SIZE	Pipe Stop Depth
1/4"OD	0.7"
1/4"CTS	0.8"
3/8"CTS	1"
1/2"CTS	1.2"
3/4"CTS	1.4"
1"CTS	1.6"
10mmOD	22mm
15mmOD	30mm
16mmOD	32mm
20mmOD	36mm
22mmOD	37mm
28mmOD	41mm

※ Ref. STR Union 15mm is 38mm

TENSILE STRENGTH TEST



The graph above shows the results of a tensile strength test conducted independently by the Korean Government Laboratory and shows conclusive prove that Twistloc fittings outperform our competitors.

MAXIMUM TORQUE FIGURES

The Maximum torque values for threads used on **Twistloc®** products are as follows;

Thread	Size	Maximum torque
Plastic	1/2"	3.5Nm
	3/4"	4Nm
	1"	5Nm

※ 1Nm=8.85lbf·in/1lbf·in=0.01kgf·m

CONNECTION TO OTHER BRANDS OF PIPE

Twistloc® insist on rigorous testing to ensure that all of our pipes and fittings are manufactured within certain tolerances. As we are unable to guarantee those tolerances used by other manufacturers, we are unable to recommend our fittings be used with any other plastic pipe or fittings be used with ours.

END STOP

If necessary, **Twistloc®** not only provides a permanent leak-prevention sealing effect but also enables immediate removal and system extension for re-work. In particular, this is a Push-in design for easy use. The Stop End is also useful in system pressure testing prior to connection works.

Fully push in the pipe and pull to check it is secure. The release, depress the collet and pull out the pipe.

MINI MANIFOLD

For maximum flexibility, **Twistloc®** fittings can be combined to provide multiple functions.



PIPE BENDING

To maintain the pipe radius.



For sharp bends, standard elbow fittings can be used. For slight bends it is possible to use the flexibility of the pipe to produce a bend which can be clipped into shape, or tighter still with a 15mm cold forming bend, subject to the following limits.

Pipe Size	1/2"	5/8"	7/8"	1"
	10mm	15mm, 16mm	20mm, 22mm	28mm
Min Radius with Clips	100mm	175mm	225mm	300mm
Min Radius with Cold Forming Bend	90mm			

CONCEALED PIPEWORK

When installing the **Twistloc** system in concrete and masonry the pipe should be run in conduit pipe with access boxes for the fittings so that all pipe can be removable for replacement and maintenance therefore complying with the requirements of the Water regulations.

CONNECTING TO A STORAGE VESSEL

We offer a range of tank connectors for connection to cold water storage tanks in 15mm, 22mm and 28mm.

When installing do not use any jointing compound on the connector. Hand tightening is all that is needed.

Further mechanical tightening will damage the fitting.

CONNECTING TO BOILERS AND HEATERS

A minimum length of 1mtr of copper pipe must be installed before connecting to a **Twistloc** pipework system.

To avoid serious overheating trapped air must be purged from the heating system before the boiler is operated.

Always refer to the boiler manufacturers' installation instructions.

CONTINUOUSLY OPERATED RE-CIRCULATING SYSTEMS (SECONDARY HOT WATER CIRCULATION / RING MAIN INSTALLATIONS)

Plastic plumbing systems are not suitable for use on any continuously operated re-circulating systems (secondary hot water circulation / ring main systems). These installations differ greatly from traditional domestic installations and therefore **Twistloc** pipe and fittings may not be used.

FREEZING FOR MAINTENANCE/SYSTEM MODIFICATION

Twistloc pipe can be frozen for maintenance/repairs without damage to the system. When freezing equipment manufacturers' instructions should be followed. Always freeze at a reasonable distance from where pipe is to be cut.

PAINTING TWISTLOC PIPE AND FITTINGS

Twistloc can be painted with either a water based paint or an oil based paint with an undercoat. Cellulose based paints, paint strippers, thinners, flux, acid based descalents or aggressive cleaning products must not be used.

CORROSION INHIBITORS

We have tested **Twistloc** pipe and fittings with Fernox & Sentinel and have approved them for use with our fittings.

ANTIFREEZE

We only approve antifreezes which are based on Ethylene Glycol mixtures.

ELECTRICAL SAFETY

Please contact a registered electrical contractor or your local Electrical Authority with regards to bonding, continuity and electrical safety.

UV PROTECTION

Twistloc is suitable for use outdoors however it should either be painted or covered with insulation to protect against exposure to UV rays.

PRESSURE TESTING

It is essential that a full system check takes place upon completion of an installation. Before carrying out any test you must ensure that all **Twistloc** pipe and fittings are installed correctly.

We suggest a test of 2bar for 10minutes followed by 10bar for 10minutes. Any products that are not manufactured by **Twistloc** and are unable to withstand the test pressures should be disconnected during the test and capped off using the **Twistloc** end stop cap.

Pressure testing is NOT a substitute for making sure pipe and fittings are correctly installed. For details on how to make a good joint please refer to the beginning of the installation guide.

CAUTION

Do not insert fingers into **Twistloc®** fittings as the stainless steel teeth may cause injury.

If PEX pipe is used, then a tube support liner must be used also. The tube support liner acts as an internal support for the end of the pipe.

Twistloc® fittings should not be used for gas, fuel oil or compressed air applications.

DO NOT allow contact with any chemical or foreign substance; paint strippers, solder flux, Acid based descalents or chemical.

Twistloc® fittings are not suitable for buried installation

All **Twistloc®** fittings and related products should be selected, installed, used and maintained in accordance with these Technical Specifications.

When cutting pipe, ensure that the ends are cut square and are free of burrs.

Ensure that there are no scratches, gouges or any form of damage on the circumference of the pipe within 1 in. (25.4mm) of the cut end. Damage in this area may cause leakage. Check the fitting for any signs of damage or foreign objects.

Do not use a damaged or scored pipe.



✗



○



○

Do not use a hacksaw to cut a pipe. Do not leave burrs on the pipe.

Ensure that the pipe is pushed into the fitting fully and is engaged properly in accordance with **Twistloc®** instructions.

If the pipe is not fully inserted, the connection cannot be properly sealed even the fitting is coupled.

You must push in the pipe passing the collets (gripper) and the O-ring inside the fitting.

When a connection has to be disassembled and reused, ensure the pipe has no damage around the circumference within 1" (25.4mm) of the end. Inspect the tube and fitting for any signs of damage and ensure they are free of foreign materials. The connection can then be reassembled.

Sales Condition

These conditions of sale override any clause in the buyer's orders in any other communication if in conflict therewith.

PRICES

All prices are ex-works quoted unless specifically agreed otherwise in writing. SNC KOREA already (herein after called SNC) reserves the right to alter prices or terms offered to any buyer without notice. Prices and terms shall be those ruling at the date of despatch.

VALUE ADDED TAX

VAT if not included in the quotation shall be added and payable where and at the rate applicable.

MINIMUM ORDER VALUE

Minimum order value may be applied at the sole discretion of SNC.

PAYMENT TERMS

The Company's standard terms is Wire Transfer or L/C at time of shipment. All other payment arrangements must have managements approval prior to shipment. Overdue invoices may be subject to interest charges.

FREIGHT TERMS

Delivery Times are given as accurately as possible. The customer shall have no rights to damages or to cancel an order for failure to meet any delivery time stated or agreed either verbally or in writing. Shortage and damages to be notified in writing within 3 days of receipt of goods or no claims will be allowed. Claims for non receipt of goods must be made within 7 days of the date of despatch or no claim will be allowed. Under \$5,000 valued PO should be Ex-Works.

CANCELLATION

Cancellation of an order will not normally be accepted by SNC. However, SNC may at it's discretion agree to cancellation on the strict condition that all costs and expenses incurred by SNC up to the time of cancellation and all loss of profits and other loss or damages resulting to SNC

by reason of such cancellation will be reimbursed by the customer to SNC forthwith. Cancellation must be confirmed in writing.

PERFORMANCES

SNC warrants that the good shall, at the time of delivery, correspond to its suppliers specifications when used for purposes for which goods of that type are ordinarily used.

No liability is accepted for failure to attain any manufacturers performance figures quoted unless SNC shall have specifically guaranteed them with an agreed sum as liquidated damages and the buyer has suffered loss by reason of the failure to attain the figures specifically quoted and agreed.

Any particulars of weights and measurements or performances relating to the goods and like matters furnished by SNC to the buyer in any catalogues, literature or otherwise are approximate and are intended to present a general idea of the goods and unless previously and specifically agreed in writing shall not form part of any contract.

Where products are sourced and supplied to buyer specific designs and/or specifications, provided that the goods conform in all respects, no liability whatsoever shall be accepted for the fitness for purpose and approval for use will be solely at the buyer's risk.

Where products are sourced and supplied to an agreed specification for a specific application, it is the buyer's responsibility to prove the product in the application and in which case no liability whatsoever will be accepted for defects which are caused by use in the buyer's application unless specifically agreed otherwise in writing prior to use in that application.

Warranty Policy

Limited Warranty: SNC warrants all products to be free of defects and material and workmanship when used under normal usage in potable water systems, and installed to a pipe which have been produced in conformity with the plumbing and heating standards by a licensed plumbing contractor in accordance with installation instructions provided by SNC and applicable plumbing and heating requirements. All SNC products, Push-fit fittings carry a period of twenty-five (25) years and Valves are for ten (10) years limited warranty from the date of original shipment from SNC or its Authorized Reseller. Damage to fittings before, during or after installation from improper assembly, repair and poor maintenance, used in competition or for commercial purposes, caused by use of or exposure to unauthorized chemicals or solvents - inadequate freeze protection - exposure to water temperatures or pressure in excess of limitations set forth in SNC installation instructions, shall nullify the terms of this warranty.

SNC must receive notification of a claim of manufacturing defect or failure in writing within applicable warranty period and within (30) thirty days of said defect or failure. All fittings that pertain to claim must be made available to SNC at owner's expense for testing and determination of cause. Upon receipt of a warranty claim SNC shall have (90) working days in which to determine responsibility for any claims of defects in material or workmanship and the course of action to be taken.

In the event of a failure pertaining to an installed Twistloc fittings and Valves, it is the responsibility of the property owner to obtain and pay for any repairs. Reimbursements for transportation, labor, repairs or other work related to any claims of defective materials are at the sole discretion of SNC and must be authorized in writing in advance by SNC.

Customers must contact the party whom the customer purchased the product and return the defective product to such party for repairs or replacement, as the case may be. Proof of purchase may be required. Customers are responsible for all shipping charges from their facility to the party from which the customers purchased the products.

WARRANTIES EXCLUSIVE: IF A SNC PRODUCT DOES NOT OPERATE AS WARRANTED ABOVE, CUSTOMER'S SOLE REMEDY SHALL BE REPAIR OR REPLACEMENT OF THE PRODUCT IN QUESTION, AT SNC OPTION. THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SNC NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE OR USE OF ITS PRODUCTS.

SNC SHALL NOT BE LIABLE UNDER THIS WARRANTY IF ITS TESTING AND EXAMINATION DISCLOSE THE ALLEGED DEFECT IN THE PRODUCT DOES NOT EXIST OR WAS CAUSED BY CUSTOMER'S OR ANY THIRD PERSON'S MISUSE, NEGLECT, IMPROPER INSTALLATION OR TESTING, UNAUTHORIZED ATTEMPTS TO REPAIR, OR ANY OTHER CAUSE BEYOND THE RANGE OF THE INTENDED USE, OR BY ACCIDENT, FIRE, LIGHTNING, OR OTHER HAZARD.

LIMITATION OF LIABILITY: IN NO EVENT, ANY PURCHASING THROUGH SNC OR ITS AUTHORIZED RESELLER, WHETHER BASED IN CONTRACT OR TORT (INCLUDING NEGLIGENCE), SHALL SNC BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY KIND, OR FOR LOSS OF REVENUE, LOSS OF BUSINESS, OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE, USE, PERFORMANCE, FAILURE, OR INTERRUPTION OF ITS PRODUCTS, EVEN IF SNC OR ITS AUTHORIZED RESELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

SOME COUNTRIES DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES OR THE LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR CONSUMER PRODUCTS, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

Experience and Innovation

Continuous innovations, supported by several years of experience, allow us to satisfy our customers throughout the world. We are able to efficiently combine the strength of our experience with knowledge of the newest technologies in order to further assist our customers.

Customer Care

Thanks to the biggest capacity in this sector **Twistloc®** is able to guarantee on time delivery. We export to more than ten countries in the world through SNC's international corporate structure.

Technical Assistance

To assist our customers we have a staff dedicated to providing technical assistance. We can provide assistance in new technologies.

Partnership

Our people work in concert with our customers and suppliers to develop and manufacture solutions that add value to the finished product.

Let us work with you on your projects.

AUTHORIZED SALES REPRESENTATIVE