



RUST FREE...Strong,
Durable, Inflammable

SYLER

PE-Lined steel pipe

Water Pipe...Who thinks not the matter

Clogged rusted pipe

Rust at the welding joint of the steel pipe



Leakage from corroded steel Pipe



Headache problems hiding in your buildings or in your old piping system





Plastic pipes become more friable and brittle after being exposure to sunlight.



PVC Pipes are prone to leak, brittle, and lack durability.

Plastic pipe are flammable and release smoke when burned, which is a major cause of fatalities in fire incidents



High Rise Building, Condominium, Hotel and Industry

Long Life Time, No Rust, No Corrosion, No Leak

Fortified by Petty Patent Protection





ISO 9001: 2008 Under Standard: BS 1387/85 CLASS M, BS EN 10255: 2004 CLASS M, BS EN 10217-1: 2019 and BS 6920 Part II

1 Higher Properties than...General Pipes



Not Burning



Strong Durable



Ensure that the water flowing through the Syler pipe is pure liquid without rust



Long Lifetim



Suitable for any outdoor building (Sun & UV Resistance)



No Fire Sparkling



Easy to install even through on a limited space



By water pressure, the force and the housing of the coupling will work together, press and push the gasket on the pipe during no any leakage.

Polyethylene(PE) and Polypropylene (PP) are well known as the pure polymer. SYLER pipe do not use any additive, hence, our products are harmless.

Qualification of Syler Pipe

Syler's Merchandise	Standard	Operating Temperature	Maximum Pressure	Usage Characteristics
Syler pipe for cold water (White inner-Type C)	BS EN 10255: 2004 or BS 1387/85 CLASS M (former) (1/2" - 6")	Up to 3-60 °C	Test pressure Maximum up to 50 bar 735 PSI	Cold water pipe, chilled water pipe, air pipe, fire protection pipe
Syler pipe for hot water (Red inner-Type H)	BS EN 10217-1: 2019 (8") BS 6920 Part II	Up to 3-90 °C	Test pressure Maximum up to 50 bar 735 PSI	Hot water pipe (More economical than insulated copper pipe.)
PP-Lined Fittings	BS 21	Up to 90 °C	Up to 20 bar	The fitting has one color and can be used for both hot and cold water.
Hot Roll Grooved Fittings	FM Approvals	Up to 90 °C	15-34.5 bar* 225-500 PSI	The fitting is red and can be used for both hot and cold water.
Grooved Coupling Paint	UL FMApprovals.	Up to 90 °C	20-50 bar* 300-735 PSI	It can be used for installing PE-lined steel pipes with grooved fitting. ** For indoor installation
Grooved Coupling Galvanized	UL FMApprovals	Up to 90 °C	20-50 bar* 300-735 PSI	It can be used for installing PE-lined steel pipes with grooved fitting with plastic lining. ** For outdoor installation



Recommendation

- Hot water pipes with a distance of 20 meters or more must be insulated as well. (For insulation details, please contact the distributor.)
- The Syler pipe should not be connected directly to the copper pipe, because it will make Syler pipe corrodes faster than normal due
- to the transfer of electrons. Therefore, if you want to connect Syler pipe with copper pipe, brass joints must be used as an intermediary.
- * The maximum pressure specified depends on the type and model of Coupling and Fittings used.



Size and Thickness of Syler Pipe

BS EN 10255: 2004 Class M (BS 1387/87 Class M) for Dia 1/2" - 6" and BSEN 10217: 2019 for Dia 8" $\,$

Class M (Medium)

Size		P	E-Line	d Steel I	Pipe	Galvanized	Steel Pipe	PE	Pipe	We	eight
Outside diameter (mm)	Inch	Min.	diameter Max. m	Thickness (mm)	Permissible tolerance%	Thickness (mm)	Permissible tolerance%	Thickness (mm)	Permissible tolerance (mm)	kg/m	Permissible tolerance %
21.3 26.9 33.7 42.4 48.3 60.3 76.1 88.9 114.3"	1/2" 3/4" 1" 1-1/4" 1-1/2" 2" 2-1/2" 3" 4" 6"	21.0 26.5 33.3 42.0 47.9 59.7 75.3 88.0 113.1 163.9	21.8 27.3 34.2 42.9 48.8 60.8 76.6 89.5 115.0 166.5	3.8 3.9 4.5 4.7 4.7 5.1 5.1 5.8 6.3	± 10%	2.6 2.6 3.2 3.2 3.2 3.6 4.0 4.5	± 10%	1.2 1.3 1.3 1.5 1.5 1.5 1.5 1.8 1.8	± 0.1	1.23 1.59 2.39 3.08 3.53 5.00 6.38 8.43 11.99	± 7.5%
219.1	8"	218.7	219.6	7.75		5.25		2.5		28.13	





Cold water (White inner - TYPE C)

Class M (Medium)

Size		Product Code	Weight		
mm	inch		Kg/meter	Kg/6 meters	
15	1/2"	10C015-600T	1.23	7.38	
20	3/4"	10C020-600T	1.59	9.54	
25	1"	10C025-600	2.53	15.18	
32	1-1/4"	10C032-600	3.28	19.66	
40	1-1/2"	10C040-600	3.77	22.62	
50	2"	10C050-600	5.17	31.01	
65	2-1/2"	10C065-600	7.02	42.10	
80	3"	10C080-600	8.84	53.01	
100	4"	10C100-600	11.48	68.89	
150	6"	10C150-600G	18.91	113.48	
200	8"*	10C200-600G	28.13	168.78	

^{*8&}quot; pipe is not PE Power Coated outside the pipe surface

Hot water (Red inner - TYPE H)

Class M (Modium)

			Glass I	((Tealann)	
Siz	re e	Product Code	Weight		
mm	inch		Kg/meter	Kg/6 meters	
15	1/2"	10H015-600T	1.23	7.38	
20	3/4"	10H020-600T	1.59	9.54	
25	1"	10H025-600	2.53	15.18	
32	1-1/4"	10H032-600	3.28	19.66	
40	1-1/2"	10H040-600	3.77	22.62	
50	2"	10H050-600	5.17	31.01	
65	2-1/2"	10H065-600	7.02	42.10	
80	3"	10H080-600	8.84	53.01	
100	4"	10H100-600	11.48	68.89	
150	6"	10H150-600G	18.91	113.48	
200	8"*	10H200-600G	28.13	168.78	

Syler Pipe Pressure Test Procedure

Water pressure testing procedur for threaded installations

- 1. Test water pressure at 1.5 times of the operating pressure for a period of 120 minutes.
- 2. Test results must have no leaks and stable pressure. Remark: During the water pressure test, all valves must be opened.

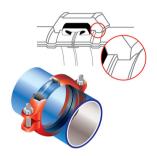
Water pressure testing procedure for grooved installations

- 1. Test the water pressure at 300 PSI for 5 minutes, then release the pressure.
- 2. Test the water pressure at 50 PSI for 5 minutes, then release the pressure.
- 3. Continue testing at design pressure levels/requirements of the relevant standard or Standard NFPA.
- 4. Test results must have no leaks and stable pressure.

Grooved Coupling

New innovation! for installing large main pipes and fire protection pipe

Advantage of grooved coupling system



- Rust-free, strong, long service life.
- The joint has PE coated on the inside surface.
- Easy and quick installation. Save labor costs.
- Support variety of building structures.
- Be able to absorb vibration caused by earthquakes.
- Be able to accept a maximum pressure of 300-735 PSI (depending on the model of Coupling used)
- Absorb sound well



See the clip of Grooved Coupling Installation



Fixed Type

Rigid Coupling is designed to have a Tongue & Grooved system that combines a locking tongue and groove system together. This distinctive feature will make the pipe clamping stronger and more resistant to bending torque of weight in various ways



Flexible Type

Flexible Coupling is exceptionally hard. durable to withstand conditions involving contraction-expansion or the need to bend the pipe from various causes such as temperature changes, vibration from earthquakes and vibration from other causes. Flexible Coupling will help reduce the use of Expansion Joint.



Easy to line up pipes

With the Grooved Coupling system, line of pipe can be moved and adjusted as appropriate, before stretching, tightening tightly.



Tightly fastened both inside and outside

With joints that sit on both sides of the pipe mounting grooves, it's the main cause of effective pressure and pulling force. It is able to withstand impacts from both directions



Easy to remove and assemble

With the Grooved Coupling system. removing and assembling pipes is easy. Therefore, it is convenient to clean and carry out additional maintenance or change pipe linings.

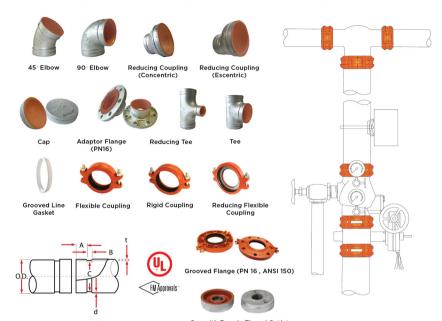


Soundproof and absorb vibration

With the Grooved Coupling system. the pipe is rolled grooved using a ring gasket. It is flexible, so it can reduce noise and absorb vibrations very well.



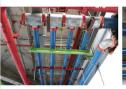
Grooved fitting with plastic lining (Ductile iron)



Cap with Female Thread Outlet

Standard Roll Groove for BS 1387 (ISO 65) Steel And IPS Pipe

Nominal		Pipe O.D.		A	В	С	Min. Wall	Groove Depth	Max.Allowed
Size mm	Basic mm	Max mm	Min mm	+0.38/-0.76 mm	+0.76/-0.38 mm	+0.00 mm	mm	d(ref.) mm	Flare Dia. mm
25	33.7	34.2	33.3	15.88	7.14	30.23-0.38	1.65	1.60	36.3
32	42.4	42.9	42.0	15.88	7.14	38.99-0.38	1.65	1.60	45.0
40	48.3	48.8	47.9	15.88	7.14	45.09-0.38	1.65	1.60	51.1
50	60.3	60.8	59.7	15.88	8.74	57.15-0.38	1.65	1.60	63.0
65	76.1	76.6	75.3	15.88	8.74	72.26-0.46	2.11	1.98	78.7
80	88.9	89.5	88.0	15.88	8.74	84.94-0.46	2.11	1.98	91.4
100	114.3	115.0	113.1	15.88	8.74	110.08-0.51	2.11	2.11	116.8
150	165.1	166.5	163.9	15.88	8.74	160.78-0.56	2.77	2.16	167.6
200	219.1	220.7	218.31	19.05	11.91	214.40-0.64	2.77	2.34	223.5











Grooved Coupling Installation Method

1. Pipe grooving Method



- 1.1 Place the grooving machine and insert the pipe so that the cross-section of the pipe meets with roller.
- 1.2 Adjust the level of the pipe that is put on the pipe stand with a water level gauge.
- 1.3 Pull the hydraulic valve to press against the pipe, then turn on the machine switch to start grooving.
- 1.4 When the grooving is finished, turn off the device, then lift the hydraulic valve. Use roll groove measuring tape to measure the groove according to the size of the grooved pipe. However, the depth of the roll groove is allowed for a variation of up to 3 millimeters. When the desired size is reached, lock the level of hydraulic pump at the grooving machine.



While grooving the pipe, there should be a person holding the pipe to prevent the pipe cross-section from moving away from the roller. If the grooved pipe moves outward, it will cause the roll groove to tilt, unable to install the Coupling joint. You should allow the pipe to rotate 2-3 times before releasing your hands from supporting the pipe. Then start pressing the hydraulic weight lever and let the pipe rotate 2-3 times until the desired depth is achieved.

Remarks: SYLER pipe grooving must be done by SYLER's grooving machine only.







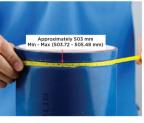


Insert the pipe so that the cross-section of the pipe meets with roller.

Caution: During the grooving, the heat will accumulate on the roller. This accumulated heat should be observed because if the roller is too hot, the plastic will be easily broken. Therefore, the grooving should be suspended to let the roller cool down before proceeding further.

Groove Diameter

Nominal Pi	Nominal Pipe Size		Standard Groove Dia.		Circumference of Roll Groove
inch	mm	mm	Min.	Max.	mm
1	25	33.7	29.9	30.2	93.77 - 94.97
1 1/4	32	42.4	38.6	39.0	121.29 - 122.49
1 1/2	40	48.3	44.7	45.1	140.46 - 141.65
2	50	60.3	56.8	57.2	178.34 - 179.54
2 1/2	65	76.1	71.8	72.3	225.56 - 227.01
3	80	88.9	84.4	84.9	265.4 - 266.85
4	100	114.3	109.5	110.0	344.22 - 345.82
6	150	165.1	160.2	160.8	503.72 - 505.48
8	200	219.1	213.7	214.4	671.54 - 673.56



Measuring roll groove of the pipe

^{**}Please see the installation information at www.grooving-machine.com.

2. Coupling

When the grooving is complete, install the coupling joint according to the following steps.



2.1 Apply Herme Seal 55 on the cross-section of the pipe and up to the gasket seat to prevent the cross-section of the pipe from rusting.



2.2 Put on Grooved line Gasket at the end of the pipe to prevent water from contacting with the cross-section of the pipe. (In case the pipe is installed with Coupling, Grooved line Gasket should be put on both ends.)



2.3 Apply Lubricant all over the rubber edge that contact with Coupling because the cross-section of the pipe may be sharp and cause scratches or flaw on the rubber, and the lifespan will deteriorate. Applying Lubricant will help prolong the lifespan of the rubber.



2.4 Put the lubricated rubber on the pipe first, then put it on the joint.



2.5 Bring the coupling joints together and tighten the nuts alternatingly, left-right, left-right until it is tight.



2.6 The installed pipe is complete.

While tightening the nuts, be careful not to let the rubber coupling become out of shape.



Position of the rubber on the pipe

and joint.



Position where the coupling is joined

Grooved Coupling Assembly Method



1. Tighten the nuts alternatingly, left-right, left-right, left-right.



2. Tighten until it is tight

(f) Caution



Each nut and gasket are different. Do not remove and pile them all together because it will cause confusion in installation



If you put it on reverse, the teeth of coupling will collide

Couping is designed with teeth on each side that it it into the groove just right, so the nut can be tightened until it reaches the end of the thread. Do not put it on previsely because the teeth will collide, and you won't be able to tighten the nut all the way and cause leak

Grooved Flange (PN16, ANSI 150)

For installing large main pipe and fire protection pipe

- Economical, easy to install, convenient and fast,
- Can be installed right away without having to use coupling again.
- Be able to withstand pressure up to 300 PSI.
- Come with a rubber gasket that is tightly attached to the pipe and joint. Prevent leaks.



Procedure to put on the Grooved Flange

When the grooving is finished, put on the Grooved Flange according to the following steps:



1. Apply Herme Seal 55 on the cross-section of the pipe and up to the gasket seat to prevent the cross-section of the pipe from rusting.



cross-section of the pipe.

2. Put on Grooved line Gasket at the end of the pipe to prevent water from contacting with the



3. Apply Lubricant all over the rubber edge that contact with Coupling because the cross-section of the pipe may be sharp and cause scratches or flaw on the rubber, and the lifespan will deteriorate. Applying Lubricant will help prolong the lifespan of the rubber.



4. Put the lubricated rubber on the pipe first.



5. Bring the Grooved Flange together and tighten the nuts.



6. Can be installed with other plates as desired.







Position of the rubber gasket on the end of the pipe.





Rubber gasket specially designed with one sig gasket for coupling and the other side as an O-ring for the flange.

1. Turn the rubber gasket with the groove on top and put on the end of the pipe correctly.





2. Bring the grooved flange with the back attach to the end of the pipe.



3. Putting on the Grooved Flange correctly.

* See more details at www.sylerpipe.com

















Union

Nipple

Socket

Plua

Flange













Elbow 45

Elbow 90

Reducing Elbow

Reducing Socket

Tee

Reducing Tee

Procedure to install pipe and PP-Lined Fittings

1. Cutting

The "Syler"pipe should be cut to be 90 degree angle with tools that do not generate heat that make the inside of PE pipe heated until it melts or burns.

Recommended Cutting Tools

- Handsaw
- Power Hacksaw
- Roller Cutter
- **Band Saw**
- Circular Saw









Power Hacksaw

Roller Cutter

Band Saw

Pipe Cutting Machine*

*Remark: Syler can be cut up to the steel layer. For the plastic layer, use a Cutter.

Caution











Threaded Joint and Installation Methods for SYLER Threaded Type

2. Scraping or trimming the pipe end

Threading machine or cutter should be used to remove the unsmooth part. If the pipe end is not trimmed. it may cause damage to the plastic inside the joint and cause it to obstruct the flow of water as well.



Scraping or trimming the pipe end



Trimming the pipe end with tapping machine



Unsharpening the edges of steel pipe surfaces

Caution

- 1. If scraping or trimming the pipe end with pipe deburrer installed in the threading machine, the pipe end must not be deburred more than 2 of 3 of the thickness of PE layer.
- 2. The steel pipe should be deburred at the pipe end where it is cut by using steel filings to prevent damage to the rubber (Gasket EPDM) of the Coupling because it will cause leakage from damage to the rubber and make the ability to endure the water pressure decrease.







If the pipe end is not trimmed before screwing it in, it may cause damage to the inside of the joint.

3. Threading

Threading should be done to achieve thread length according to Standard BS21 and BSPT or according to the table below to prevent leaks and rusting of pipes and joints effectively.

Figures showing standard number of thread

F	Pipe Size	Approximate Length of the Thread	Number of thread
mm	inch	mm	
25	1"	22.1	9.5
32	1-1/4"	24.1	10.5
40	1-1/2"	24.1	10.5
50	2"	27.5	12
65	2-1/2"	30.0	13
80	3"	34.9	14

^{* 4&}quot; Pipe onwards should be installed with Grooved Coupling system



During the threading process, the threading oil or coolant should be turned up to maximum to prevent heat buildup that occurs during threading which may damage the PE layer and the use of tapping oil or coolant from the threading machine manufacturer is recommended.



Threading machine

If there is a problem using the threading machine. please contact the manufacturer or distributor.

> REX INTERNATIONAL ASIA Co., Ltd. Tel. +66 2103 4496 ASADA Tel. +66 2042 9958-9

4. Procedure for assembling and tightening pipes

After threading, the scrap steel, threading oil or coolant that is left in the pipe should be completely removed to prevent rust from scraps residue in the pipe and prevent odor caused by threading machine oil or coolant remaining inside the pipe, then clean the pipe threads and joints by wiping off all oil and dirt around the threads before applying Herme Seal 55 to the pipe threads and joints to prevent leaks and rust in the area where the threads are made more effective.

(Please see details on using Herme Seal 55 on page 15)

Procedure to install the gate valve to the Syler pipe

The nipple connector must be used to screwed into the gate valve only according to the following steps:



1. Apply Herme Seal 55 all over the threads and cross-section of the joint



2. Wrap the threads with tape or cotton string at the area where the threads of the joints are made on all threads.



3 Reneat sten 1 and 2 with the threads on the other side of the joint





4. Apply Herme Seal 55 all over the threaded tape of the nipple joint on the side where you want to install.



5. Screw the nipple onto the water gate valve or gate valve without waiting for Herme Seal 55 to dry.



6. Apply Herme Seal 55 all over the threaded area on the other side of the nipple joint



7. Screw the straight coupling onto the nipple coupling without waiting for Herme Seal 55 to dry



8. Apply Herme Seal 55 to the threads and cross-section of the pipe thoroughly.



Use thread tape or cotton string. to wrap the threaded area of the



10. Apply Herme Seal 55 all over the thread wrapping tape on every thread of the pipe.

Caution



11. Approximately 1 cm. Apply to the surface of the pipe approximately 1 cm, below the thread



12. Screw the Syler pipe onto the straight connector.



13. Tighten the socket wrench again.





Procedure to Install Pipe and PP-Lined Fittings

4. Assembling and tightening pipes

Number of thread which will be screwed in by hand and pliers are as shown in the following table.

Pip	e Size Number of Thread Screwed		Tightening Torque	Plier
mm	inch	Time	kgf-m	kgf
25	1"	5.0 - 6.0	10	450 x 29
32	1-1/4"	6.0 - 7.0	12	450 x 35
40	1-1/2"	6.5 - 7.5	15	600 x 32
50	2"	7.5 - 8.5	20	600 x 42
65	2-1/2"	8.0 - 10.0	25	900 x 35
80	3"	9.0 - 11.0	30	900 x 43
100	4"	10.0 - 12.0	40	950 x 53
150	6"	11.0 - 13.5	60	1,150 x 63

5. Steps after installation is complete

After the connection is complete, repair defective parts on the pipe and joints, especially in the threaded area with rust-proof paint or anti-rust coating for the longest lifespan.

① Using paint shade RAL 5001 or oil paint TOA GLIPTON shade 7357. For more information, call +66 2335 5777, press 1. Color Information Department.

6. Cleaning Water Pipe System after Installation

After the installation is complete, water should be flowed to clean the inside of the pipe and clean out any dirt that may be caused by the installation completely, then disinfect the pipes that may be contaminated from the installation with a mixture of chlorine (Either liquid chlorine or a mixture of sodium hypochlorite can be used with the proportion not less than 50 ppm.) Leave it in the pipe for not less than 24 hours, then release clean water to wash it away until the residual chlorine in the system is up to 0.2 ppm.

CHEMICAL RESISTANCE OF PE

Reagent	istano	Reagent	stano	Reagent	I
Acids	Resist	Household	Resist	Industrial Chemicals	L
and a second	E	Soap	Ε	Cyclohexanol	ı
Acetic 1-10%	-	Suntan Lotion	Ε	Dibutylphthalate	ı
Acetic 10-60%	E	Wax (liquid & paste)	E	Ethylene Glycol	ı
Acetic 80-100%	E	Olls		Ethyl Acetate	ı
Chromic 20%	E	UIS		Ethyl Alcohol	ı
Dichromate sulfurio	G	Camphor	F	Ethyl Ether	ı
Hydrochloric 10%	E	Castor	G	Ethylene Chloride	ſ
Hydrochloric 35 %	E	Cottonseed	G	Formaldehyde 40%	ſ
Hydrochloric 75 %	E	Linseed	G	Furfural 100%	ſ
Hydrochloric conc	E	Mineral	G	Gasoline	ı
Lactic 10-90%	E	Motor(SAE 10)	G	Mercury	ı
Nitric 0-30%	G	Orange	G	Methyl Alcohol	ı
Nitric 30-50%	G P	Peppermint	G	Phenol 90%	ı
Nitric 95-98%		Transformer	G	Potassium Dichromate	ı
Phosphoric 30-90%	E	Vegetable	G	Propyl Alcohol	ı
Stearic 100 %	E	Pine	G	Silver Nitrate Soln.	ı
Stearic 70 %	E	1005		Sodium Bicarbonate Saturated	ı
Stearic 80%	G	Industrial Chemicals		Toluene	ı
Base				Trichloroethylene	ı
0000		Acetone	G	Formic Acid 100%	ı
Ammonium hydroxide 30%	Ε	Alums(All type) Conc.	Ε	Magnesium Chloride Saturated	ı
Barium hydroxide 30%	Ε	Ammonium nitrate Saturated	Ε	Mercurous Nitrate Saturated	ı
Calcium hydroxide 30%	Ε	Arrryl Acetate	G	Nitrobenzene 100%	ı
Potassium hydroxide 30%	ε	Amyl Alcohol 100%	Ε	Potassium Chloride Saturated	ſ
Sodium hydroxide 30%	Ε	Amyl Chloride 100%	G	Potassium Cyanide Saturated	ſ
- Constant		Benzaldehyde	Ε	Potassium Fluoride	ſ
Food & Food products		Benzene	G	Potassium Permaganated	ſ
		Buthyl Alcohol	Ε	Tetrahydrofuran	ſ
Beet juice	Ε	Calcium chloride,Sat'd.Soln.	E	Urea	ſ
Beer	Ε	Carbon tetrachloride	Р		ı
Carrot juice	Ε	Chlorobenzene	P		ſ
Ketchup	E	Chloroform	Р		Г

E = Excellent G = Good F = Fair P = Poor

If you want information on resistance to other chemicals not shown in the table above
please contact the company.



Protect pipe threads and joints for an additional layer with rust-proof and pipe glue

Normally, the Syler pipe has the outer surface of galvanized steel coated with zinc. In tapping procedure it is necessary to scrape off the pipe surface and keep only the iron.

Therefore, there is a problem of rust in the thread area, which can be fixed by using Hermes Seal 55 rust-proof glue to protect the pipe threads and joints completely.





Properties of Herme Seal 55

- Highly effective in preventing rust with JWWA K142 (Japan Waterworks association) production standard from Japan.
- Prevents corrosion and leakage of steel pipes and lining pipes.
- · Can be used with hot water pipe lining and water distribution pipes
- Contains no chemicals that are harmful to the body.

Properties

Color : gray

Type of film : drying and hardening

Viscosity : 4,500 CPS.at 25 C

Specific Garvity : 1.2 Heated Residue : 62 ±3%

Diluent : specified solvent

QTY.500 g. / CAN

Table showing the average amount of glue to apply

In the case of applying too little glue, the glue will not cover the entire surface, which affects the efficiency of preventing water leakage and rust prevention. In addition, in the case of applying too much glue, it will cause greasy substances to crystallize in the pipe and become contamination that flows out with water.

ln		ı	c	tı	٥	n

- 1. Clean and wash oil stains along the pipe threads and pipe surface.
- 2. Use a cloth to wipe it dry to make Herme Seal glue sticks to the surface and pipe threads well.
- 3. Apply glue all over the threaded area.
- 4. Screw it onto the joint to increase tightness.
- 5. Leave it for at least 8 -12 hours to give the time to adhere for efficiency in preventing leaks and rust.
- 6. Test water release.





Apply to the joint threads



Pipe Size	Amount of application	
1"	3.49 g	
1-1/4"	4.3 g	
1-1/2"	5.1 g	
2"	10.8 g	
2-1/2"	12.0 g	
3"	17.0 g	
4"	20.5 g	



Caution

Focus on applying glue to the "grass-section" area of the nine because it is the point of direct contact with water

SYLER Pipe, Cleanliness You Can Trust



Pyramid of plastic

The pyramid above shows the danger level of each type of plastic. The top is PVC, a plastic that has the least cleanliness and it can be seen that the bioplastic (Biobased Polymer) which is at the base of the pyramid is the cleanest plastic, but this type of plastic, such as natural rubber, cannot be used immediately. And when going through a chemical process, when it is used, natural rubber will lose its purity like before. Therefore, PE can be considered the cleanest and safest plastic. There are many other types of plastic, but this pyramid shows properties

of the main plastics currently used only. These properties are subject to change depending on many factors such as the production process, raw materials, or even the use of additives that have different special characteristics.

Be confident in the quality

Under production standards that have been certified by ISO 9001: 2008, making every pipe have the same standard quality. Moreover, Syler pipe has also passed the standard product test BS 1387/85 CLASS M (BSM), ensuring that every pipe has standard steel thickness and has been galvanized thicker than normal. As for cleanliness, Syler pipe has passed the test under Standard BS 6920 PART II, which is one of the standard water pipes with one of the strictest standards in the world by a leading laboratory, NUTEK System Co., Ltd, which test results show that:

Table shown the quantity of heavy metal in water passing through the Syler pipe								
Metal Type	Heavy metal quantity (mg)							
metal Type	Standard BS 6920	SYLER pipe						
Aluminum (Ai)	≤ 200	< 10						
Antimony (Sb)	≤ 10	< 0.05						
Arsenic (As)	≤ 50	< 0.1						
Barium (Ba)	≤ 1000	< 10						
Cadmium (Cd)	≤ 5	< 0.1						
Chromium (Cr)	≤ 50	<1						
Iron (Fe)	≤ 200	<1						
Lead (Pb)	≤ 50	< 0.5						
Manganese (Mn)	≤ 50	< 0.5						
Mercury (Hg)	≤1	< 0.01						
Nickel (Ni)	< 50	<1						
Selenium (Se)	≤ 10	< 0.5						
Silver (Ag)	≤ 10	< 0.5						



- ** Syler pipe passes Standard that does not make the taste, color and transparency of the water changes (from testing of water that was stuck inside the pipe for 2 months.)
- * Amount of heavy metals contaminated with water (from testing of water that was stuck inside the pipe for 2 months.) lower than Standard from 20 500 times.
- * The amount of growth of microorganisms that can grow in water (from testing water that was stuck inside the pipe for 2 months) is 13 times lower than standard and no contaminants or toxins that are harmful to the human including various carcinogens is found in the water that was examined.

Table shown the amount of growth of microorganisms that can grow in water		
	Standard BS 6920	SYLER Pipe
MDOD(mg/l)	≤ 2.4	0.18

Testing Standard

- *Syler pipe has been inspected by the Department of Science Services under Standard BS 6920 Part II.
- *Syler pipe has been inspected by the Faculty of Engineering, Chulalongkorn University, Department of Mechanical Engineering under Standard BS 1387/85 Class Medium
- "Syler pipe has been inspected by Nutek System Co., Ltd. under both Standard BS 6920 Part II and BS 1387/85 Class Medium. Nutek System is a laboratory approved by the Hong Kong Government for water delivery equipment testing to be used by the government in Hong Kong.



For Syler PE-Lined Steel pipe made from steel, the inside is lined with PE plastic which is strong and can bear high pressure suitable for use as a main pipe. Installation with the grooved coupling system makes installing main pipes easy. As for branch pipes, you should choose PP-R 80 pipes that use socket fusion, making the pipes and joints become one. Therefore, we are confident that there will be no more leakage problems. Thai PP-R pipes are made from European quality plastic pellets with Germany export standard certified from DVGW and NSF 372 and it is more economical than general steel pipes.

Choosing to use Syler pipe as the main pipe and Thai PP-R pipe as the branch pipe has the advantage that the installation does not cause any sparks in the building. Therefore there is no fire risk. It is also easy to install, has long service life. There is no worries about leakage problems. So you can be confident in the cleanliness of the water flowing through. There will be no contact with metal or rust at a reasonable cost.

* PE and PP are well known as the cleanest polymers. The Syler does not have any additives that are toxic during the production process, thus pipes and fittings are clean and free of carcinogens.

Syler PE-Lined Steel pipe and fire extinguishing pipe system/ Pressure Relief Valve







Figure of PRV installation with SYLER pipe

Some of Our Project References

























Bangkok

- Petai Enterprise Rattanathibet Co., Itd. 0 2527 6111
- S. Piphat Pipe and Fitting Chokchai 4 0 2931 4176
- Mitapai Ladprao 23 0 2938 1786-90
- Sahapiphat Co., Itd. Ladprao 101 0 2736 9820-22
- Leelawong Co..ltd. Sukhapiban 2 0 2726-4701
- · K.Paisarnramintra Co., Itd. Ramintra 0 2517 3948, 0 2918 8712
- Siam Viwat Co., Itd. Rama 2 0 2417 9640-3
- Damrongchai Kehaphan Co., Itd. Rama 2 0 28770711-2
- Worakij Commercial 84 Co., ltd. Rama 3 0 2683 0580
- MHT Co..ltd. Rama 4 0 2655 8326-9
- S.Thaisearee Co..ltd. Rama 6 0 2279 3399
- P.Udomchai Ltd., Part. / Pokawin Charansanitwong/ Phutthamonthon Sai 2 0 2866 5653-5 .0 2865 4534
- Roong Siam Steel Co., Itd Pom Prap 0 2282 8316
- · Suanmali Trading Ltd., Part. Pom Prap
- 0 2223 6811, 0 2221 3046
- STK Plumbing Chan Road 0 2212 1151
- Kiatsinsap Co., Itd. Romklao Soi 7 0 2919 5319-11
- Siam Pathum Group Co., Itd. Bang Khu Wat 0 2976 1317-9

- Sripoonsupenterprise Co., Itd. Rangsit 0 2901 8899
- T.S.B. Water Pipe Co..ltd. Suksawat 0 2817 3718
- Cho. Panich (Thai) Co..ltd. Nakhon In 0 2115 9000
- Jaroensahakit Pracharat 0 2258 0186
- · Chote Choo Chat (1993) Co..ltd. Pinklao - Nakhon Chai Si O 2885 0100-6
- Sahanoparatana Co., Itd. Sukhumvit 51 0 2662 6603-7
- 2 2 Import Export Ltd.,Part. Sukhumvit 101/1 0 27476671-5
- Kii Siam Prise (1995) Co., Itd. Sukhumvit 103 0 2748 9812
- Cho, Panich Lanluang Co., Itd. Srinakarin 0 2747 1379-82
- Pipework 2544 Co.,ltd. King Kaew 0 2738 5020-1
- IMAX Engineering Lat Krabang 0 2075 0910-4
- . H.T. (Bangkok) Trading Ltd., Part. Chalgem Khet Yukon 0 2225 4370-3
- J Omega Pipe And Fitting Ltd., Part, Nonthaburi 0 2422 6565, 08 1801 1180
- · Siam Pipeling System Co., Itd. Wat Phan Thai Norasing 03 4 458 140-1

Provincial Area

Northern

Contact: Khun Kav (Tel. 08 9699 2636) and Khun Born (Tel. 06 5419 9942)

Chiang Rai/ Mae Hong Son/ Chiang Mai/ Lamphun/ Lampang/ Phayao/ Phrae/ Nan/ Kamphaeng Phet/ Tak/ Uttaradit/ Phitsanulok.

North Central Area

Contact : Khun Kay (Tel. 08 9699 2636) and Khun Born (Tel. 06 5419 9942)

Phetchabun/ Sukhothai/ Phichit/ Uthai Thani/ Chai Nat.

Western

Contact : Khun Tuk (Tel. 08 1906 7006)

Lopburi/ Suphan Buri/ Kanchanaburi/ Ratchaburi.

Central / Eastern

Contact : Khun Tuk (Tel. 08 1906 7006) and Khun Pim (Tel. 08 1145 8685)

(Distributor at Chonburi)

Saraburi/ Nakhon Nayok/ Prachinburi/ Chachoengsao/ Sa Kaeo/ Chonburi/ Rayong/ Chanthaburi/ Trat.

Northeast

Contact: Khun New (Tel. 09 3546 6363)

Loei/ Nong Khai/ Bueng Kan/ Nong Bua Lamphu/ Udon Thani/ Sakon Nakhon/ Khon Kaen/ Kalasin/ Mukdahan/ Chaiyaphum/ Maha Sarakham/ Roi Et/ Yasothon/ Amnat Charoen/ Nakhon Ratchasima/ Buriram/ Surin/ Sisaket/ Ubon Ratchathani.

Southern

Contact: Khun Ao (Tel. 09 1049 7976)

Samut Songkhram/ Phetchaburi/ Chumphon/ Prachuap Khiri Khan/ Ranong/ Surat Thani/ Phang Nga/ Nakhon Si Thammarat/ Phuket/ Krabi/ Trang/ Satun/ Songkhla/Pattani/ Yala/ Narathiwat.

Reputable Construction Material Mall

Grooved Coupling

It's very easy & Conversion to apply as main pipe system and fire protection system.



TAC-M Group Co., Ltd.

20 Fl. Room 2C BUI Building, 177/1 Surawong Road, Suriyawong, Bangrak, Bangkok 10500

Tel. +66 2634 9981-4, Fax +66 2634 7150



www.sylerpipe.com

