

SCG PVC

For Water Supply and Drainage System



TIS.17-2561



Certified to
NSF/ANSI/CAN 61
& 372



PVC PIPE (TIS.17-2561)

 **Green Premium[®]**

Lead-free products with TIS.17-2561 certified

The First Ever in Thailand



SCG PIPE LIBRARY



For Android System



For iOS System

SCG PIPE WEB



YOUTUBE



NP1 Pipe Business

About the Products

Nawaplastic Industries Co., Ltd., an affiliate of SCG Chemicals, the "PVC" pipe manufacturer since 1970 is a highly experienced and full commitment-oriented company with the mission to meet service demands and provide the utmost satisfaction for our customers, the continuous quality improvement of the products is our main emphasis. In order to be the leader in piping systems plumbing-drainage, hot water plumbing, electrical and telephone conduit, agriculture and public utility, product development is also on our focus to create a wide-range variety of products - pipes, fittings, and accessories for full and comprehensive services to be suitable for all kinds of uses with a support of our expert teams for all kinds of piping consultancy.

SCG PVC Pipe

uPVC (Unplasticized polyvinyl chloride) or rigid PVC is widely used in construction because of its outstanding properties such as humidity resistance, anti-rust and retardation, as well as low maintenance, etc., you can rest assured that the pipe you choose are exceptionally suitable for your high-quality lines of work.

How "SCG pipe" Superior in Every Way Unmatched Quality

- * Systematic quality control by our expert teams with every fine bit of detail.
- * World-class high-tech machine-made products resulting in high quality and environment friendly.

Best Services

- * Pre-sales and after-sales service by our expert teams
- * Fast and nationwide delivery

Outstanding Availability

- * Capable of meeting the domestic and international demands
- * A wide and dynamic variety of pipes, fittings, and accessories, meeting customer demands.
- * With the complement to all our products by our business alliance supports, including Henkel (a world-class chemical and adhesive company) and Sekisui Chemical, etc.

Product Properties (SCG PVC Pipes) For Plumbing and Drainage System



Pressure and Crush-resistant

Manufactured from excellent - quality, highly flexible, and elastic materials, the pipes are TIS. certified given that they are well capable of withstanding internal pressure and external force.



Sunlight Resistance

Contained titanium dioxide in a suitable amount to shield the pipes from UV rays nicely with no brittle or breakage to be hassled with.



pH Resistant

Hassle-free rust corrosion owing to being neutral to acid and alkali resulting in a long lifespan.



No Rust, No Leak, No Brittle

No rust and no brittle thanks to the special properties of the PVC.



Toxic-free

Free from toxicants resulting in no contamination and color change of water.



TIS. Standards

Thailand Industrial Standards or TIS. 17-2561 certified.



Electrical Insulator

No electrical insulation as the pipes are non-metal resulting in no electrical leakage; the pipes are also flame-retardant.



Lightweight

5-time more lightweight than galvanized pipes for easy transportation and installation.



Cautions

1. Please refer to the manual before use.
2. To be used with up-to-standard accessories
3. Do not use it in a water service line with a temperature above 60°C as it might cause deformation in the pipes resulting in leakage.
4. Avoid using products with all kinds of chemicals as they might be harmful to the body and property, in case of necessity, refer to the solution resistance tables in the manual if used.
5. Disposal by incineration is prohibited as it may cause bodily harm and property damage.
6. After the installation, a pressure test according to hydrostatic and pneumatic test standards must be carried out. If the test results are above the standards, bodily harm and property damage may occur.
7. A rubber band is for banding the pipes only, it should not be used in other usages as bodily harm and property damage may occur.

SCG PVC Pipes for Plumbing and Drainage System



SCG PVC Pipes (Plain End)

Thailand Industrial Standards (TIS. 17-2561) (Blue) for Water Supply, Pressure, Drainage, Waste Piping, etc.

Unit mm. (inch)	Outer Diameter (OD) (mm.)	Thickness (mm.)				
		PVC 5	PVC 7	PVC 8.5	PVC 10.5	PVC 13.5
18 (1/2")	22 ± 0.15	-	1.5 ± 0.15	2.0 ± 0.15	2.3 ± 0.15	2.6 ± 0.15
20 (3/4")	26 ± 0.15	-	1.5 ± 0.15	2.0 ± 0.15	2.3 ± 0.15	2.6 ± 0.15
25 (1")	34 ± 0.15	-	1.5 ± 0.15	2.0 ± 0.15	2.4 ± 0.20	3.0 ± 0.25
35 (1 1/4")	42 ± 0.15	1.5 ± 0.15	1.8 ± 0.15	2.2 ± 0.20	2.6 ± 0.20	3.1 ± 0.25
40 (1 1/2")	48 ± 0.15	1.5 ± 0.15	1.9 ± 0.15	2.3 ± 0.20	2.8 ± 0.20	3.5 ± 0.25
55 (2")	60 ± 0.15	1.8 ± 0.20	2.4 ± 0.20	2.9 ± 0.25	3.5 ± 0.25	4.3 ± 0.30
65 (2 1/2")	76 ± 0.20	2.2 ± 0.20	2.9 ± 0.20	3.5 ± 0.25	4.4 ± 0.30	5.4 ± 0.30
80 (3")	89 ± 0.20	2.6 ± 0.20	3.5 ± 0.25	4.1 ± 0.30	5.2 ± 0.35	6.4 ± 0.40
100 (4")	114 ± 0.30	3.2 ± 0.20	4.3 ± 0.25	5.2 ± 0.30	6.5 ± 0.35	8.1 ± 0.50
125 (5")	140 ± 0.30	3.9 ± 0.25	5.3 ± 0.30	6.4 ± 0.40	8.0 ± 0.45	9.9 ± 0.55
150 (6")	165 ± 0.40	4.6 ± 0.25	6.2 ± 0.35	7.5 ± 0.45	9.4 ± 0.50	11.7 ± 0.65
200 (8")	216 ± 0.50	5.4 ± 0.35	7.3 ± 0.40	8.8 ± 0.50	11.1 ± 0.60	13.7 ± 0.70
250 (10")	267 ± 0.70	6.7 ± 0.40	8.9 ± 0.40	10.9 ± 0.60	13.6 ± 0.65	16.9 ± 0.85
300 (12")	318 ± 0.80	7.9 ± 0.45	10.7 ± 0.55	12.9 ± 0.65	16.2 ± 0.75	20.1 ± 1.00
350 (14")	370 ± 0.90	9.2 ± 0.50	12.5 ± 0.70	15.0 ± 0.75	18.9 ± 0.95	23.4 ± 1.15
400 (16")	420 ± 1.10	10.4 ± 0.55	14.2 ± 0.80	17.0 ± 0.85	21.5 ± 1.10	26.5 ± 1.25

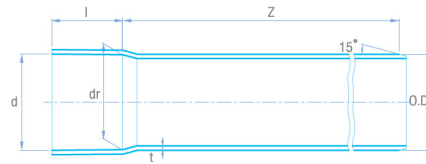
Note :

- Numbers for indicating PVC quality levels – 5, 7, 8.5, and 13.5 are a working pressure i.e., maximum allowable pressure for operating continuously at 27°C (unit: kgf/cm²)
- Standard length: 4 m., as for special lengths other than the standard length, please contact the company directly.
- Quality level 7 and 10.5 are pre-ordered products, please contact the company at 0-2555-0888.



SCG PVC Pipes (End with Socket)

Thailand Industrial Standards (TIS. 17-2561), Blue for Water Supply, Pressure, Drainage and Waste Piping, etc.



Unit mm. (inch)	d (mm.)	dr (mm.)	l (mm.) Min.	Z(mm.) Min.
18 (1/2")	22.40 ± 0.2	21.4 ± 0.3	30	3,945
20 (3/4")	26.40 ± 0.2	25.3 ± 0.3	35	3,940
25 (1")	34.60 ± 0.2	33.3 ± 0.3	41	3,935
35 (1 1/4")	42.60 ± 0.2	41.2 ± 0.3	46	3,930
40 (1 1/2")	48.70 ± 0.3	47.2 ± 0.4	55	3,920
55 (2")	60.80 ± 0.3	59.0 ± 0.4	63	3,910
65 (2 1/2")	76.60 ± 0.3	75.2 ± 0.4	63	3,910
80 (3")	89.60 ± 0.3	88.2 ± 0.4	64	3,905
100 (4")	114.70 ± 0.3	113.2 ± 0.4	84	3,885
125 (5")	140.80 ± 0.4	139.0 ± 0.4	104	3,860
150 (6")	166.00 ± 0.4	163.9 ± 0.4	132	3,830
200 (8")	217.90 ± 0.8	213.8 ± 0.9	200	3,750
250 (10")	269.30 ± 0.9	264.2 ± 1.0	250	3,700
300 (12")	320.70 ± 1.0	314.6 ± 1.1	300	3,645
350 (14")	373.10 ± 1.0	366.0 ± 1.1	350	3,595
400 (16")	423.60 ± 1.2	415.5 ± 1.3	400	3,540

Note :

- Z is the length of pipes with a glue socket for bonding by the solvent cement by slipping on the edge of the standard 4-m. pipe.
- Thickness depends on the size and quality levels of extruded pipes.
- Quality level 7 and 10.5 are pre-ordered products, please contact the company at 0-2555-0888.

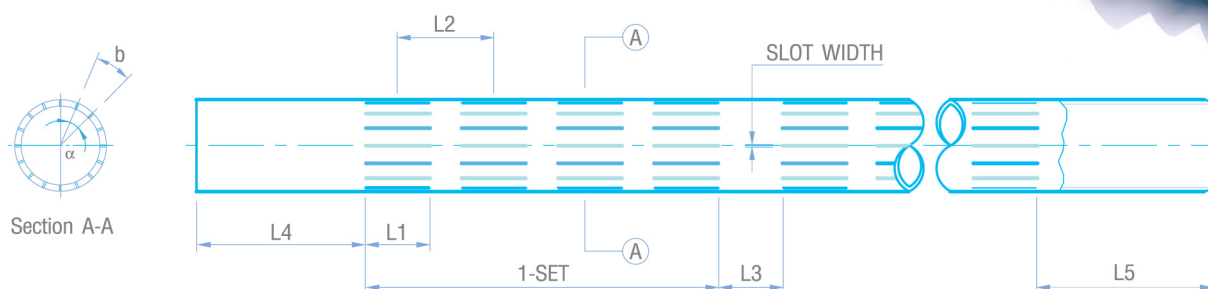


SCG PVC Pipes for Groundwater Extraction



SCG PVC Slotted Pipes

Manufactured according to Nawaplastic Industries Co., Ltd.'s standards (blue) for a good intake pipe and manufactured in both forms – without and with glue sockets to be used with the solvent cement.



Unit: millimeter (mm.)

Unit mm. (inch)	L1	L2	L3	L4	L5	Slot width	α Degree	b	Number of slots	Liners	Openings (%)
55 (2")	80	120	80	210	220	2.4 ± 0.2	45.0	23.6	8	7	5.7
65 (2 1/2")	80	120	80	210	220	2.4 ± 0.2	36.0	23.9	10	7	5.6
80 (3")	80	120	80	210	220	2.4 ± 0.2	30.0	23.3	12	7	5.8
100 (4")	80	120	80	210	220	2.4 ± 0.2	22.5	22.4	16	7	6.0
125 (5")	80	120	80	210	220	2.4 ± 0.2	20.0	24.4	18	7	5.5
150 (6")	80	120	80	210	220	2.4 ± 0.2	18.0	25.9	20	7	5.2
200 (8")	80	120	80	330	220	2.4 ± 0.2	18.0	33.9	20	7	4.0

Note :

1. Tolerance of L1, L2, L3, L4, and L5 = 10 mm.
2. In case of a slot width different from the above standard values is required, contact the company directly.
3. Thickness depends on the dimension and quality levels of extruded pipes.

Fitting Accessories



SCG Solvent Cement (High Pressure)
40,125, 250, 500 and 1,000 g.



SCG Solvent Cement (Standard)
50, 100, 250, 500, 1000 g.
and brush-included 100 g.



SCG Thread Seal Tape
10 m.



Tiger Pipe Thread Seal Tape
10 m.



PVC Pipe Cleanser
800 g.

SCG PVC Fittings for Plumbing System (Pressure Pipe)

Thailand Industrial Standards (TIS. 1131-2535) "Rigid PVC Standards for Pressure Pipe"

Machine-cut Fitting



Straight
18-150 mm. (1/2"-6")



*90° elbow
18-300 mm. (1/2"-12")



45° elbow
18-150 mm. (1/2"-6")



* Tee
18-300 mm. (1/2"-12")



Female-threaded coupling
18-100 mm. (1/2"-4")



Female-threaded 90° elbow
18-25 mm. (1/2"-1")



Female-threaded tee
18-25 mm. (1/2"-1")



Male-threaded coupling
18-100 mm. (1/2"-1")



Male-threaded 90° elbow
18-25 mm. (1/2"-1")



Female-threaded coupling (brass)
18-55 mm. (1/2"-2")



Female-threaded 90° elbow (brass)
18-25 mm. (1/2"-1")



Female-threaded tee (brass)
18-20 mm. (1/2"-3/4")



Male-threaded coupling (brass)
18-35 mm. (1/2"- 1 1/4")



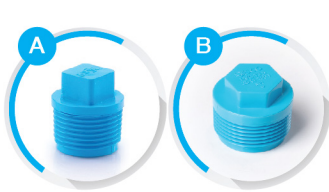
Male-threaded 90° elbow (brass)
18-25 mm. (1/2"- 1")



Male-threaded tee (brass)
18 mm. (1/2")



Nipple
18-25 mm. (1/2"-1")



Male-threaded plug
A 18-25 mm. (1/2"-1")
B 35-55 mm. (1 1/4"-2")



Bushing
18, 20, 25, 40, 55 mm.
(1/2", 3/4", 1", 1 1/2", 2")



Cap
18-55 mm. (1/2"-2")



Round cap
55-150 mm. (2"-6")



Rubber-sealed union
18-55 mm. (1/2"-2")
Excluding 35 mm. (1 1/4")



Male-female short union
20 mm. (3/4")



Slip union
18-55 mm. (1/2"-2")



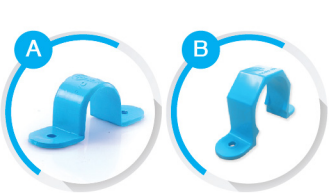
■ Foot valve
25-55 mm. (1"-2")



Dripline take-off
20,25 mm. (3/4", 1/2")



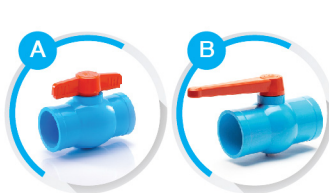
Female-threaded dripline take-off
20x1/2" mm. (3/4")
25x3/4" mm. (1")



Clamp
A 18-25 mm. (1/2"-1")
B 35-100 mm. (1 1/4"- 2")



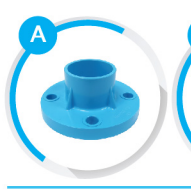
Clip
18-55 mm. (1/2"-2")



Ball valve
A 18-55 mm. (1/2"-4")
B 65-100 mm. (2 1/2"-4")



Ball valve
18-55 mm. (1/2"-2")



Flange with spigot
A 55-65 mm. (2"-2 1/2")
B 80-150 mm. (3"-6")



Faucet Valve
18 mm. (1/2")

* If 200 mm. and above, the products must be pre-ordered (imported products and grey colors are available).

■ Special-rated products

SCG PVC Fittings for Plumbing System (Pressure Pipe)

Thailand Industrial Standards (TIS. 1131-2535) "Rigid PVC Standards for Pressure Pipe"

Machine Extrusion (Extruded Fittings)



Unit – mm. (inch)	Straight Reducer	90° Elbow Reducer	Tee Reducer	Male-threaded Socket	Male-threaded Coupling (Brass)
20 × 18 (3/4" × 1/2")	●	●	●	●	●
25 × 18 (1" × 1/2")	●	●	●	●	●
25 × 20 (1" × 3/4")	●	●	●	●	●
35 × 18 (1 1/4" × 1/2")	●				
35 × 20 (1 1/4" × 3/4")	●				
35 × 25 (1 1/4" × 1")	●		●		
40 × 18 (1 1/2" × 1/2")	●		●		
40 × 20 (1 1/2" × 3/4")	●		●		
40 × 25 (1 1/2" × 1")	●		●		
40 × 35 (1 1/2" × 1 1/4")	●		●		
55 × 18 (2" × 1/2")	●		●		
55 × 20 (2" × 3/4")	●		●		
55 × 25 (2" × 1")	●		●		
55 × 35 (2" × 1 1/4")	●		●		
55 × 40 (2" × 1 1/2")	●		●		
65 × 20 (2 1/2" × 3/4")	●		●		
65 × 25 (2 1/2" × 1")	●		●		
65 × 40 (2 1/2" × 1 1/2")	●		●		
65 × 55 (2 1/2" × 2")	●		●		
80 × 18 (3" × 1/2")			●		
80 × 20 (3" × 3/4")	●		●		
80 × 25 (3" × 1")	●		●		
80 × 35 (3" × 1 1/4")	●		●		
80 × 40 (3" × 1 1/2")	●		●		
80 × 55 (3" × 2")	●		●		
80 × 65 (3" × 2 1/2")	●		●		
100 × 20 (4" × 3/4")			●		
100 × 25 (4" × 1")	●		●		
100 × 40 (4" × 1 1/2")	●		●		
100 × 55 (4" × 2")	●		●		
100 × 65 (4" × 2 1/2")	●		●		
100 × 80 (4" × 3")	●		●		
125 × 100 (5" × 4")			●		
150 × 55 (6" × 2")			●		
150 × 80 (6" × 3")	●		●		
150 × 100 (6" × 4")	●		●		
* 150 × 125 (6" × 5")			●		
* 200 × 100 (8" × 4")			●		
* 200 × 150 (8" × 6")			●		
* 250 × 200 (10" × 8")			●		

* If 200 mm. and above, the products must be pre-ordered (imported products and grey colors are available).

SCG PVC Fittings for Plumbing System (Pressure Pipe)

Thailand Industrial Standards (TIS. 1131-2535) "Rigid PVC Standards for Pressure Pipe"

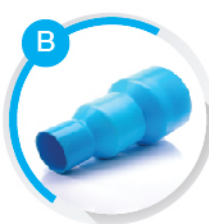
* Crafted from Pipes (Hand-crafted)



Straight H
125-300 mm.
(5"-12")



Straight reducer H
125x80-300x250 mm.
(5"x3"-12"x10")



Female-threaded coupling H
125-250 mm.
(5"-10")



Female-threaded 90° elbow H
35 - 80 mm.
(1 1/4" - 3")



Female-threaded coupling H
125-250 mm.
(5"-10")



11.25° elbow H - 2 glue sockets
18-200 mm.
(1/2"-8")



22.5° elbow H - 2 glue sockets
18-300 mm.
(1/2"-12")



45° elbow H - 2 glue sockets
18-300 mm.
(1/2"-12")



90° elbow H - 2 glue sockets
18-300 mm.
(1/2"-12")



PVC Spigot Flange H
35, 40, 125 mm.
(1 1/4", 1 1/2", 5")



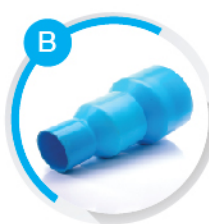
**Spigot Flange H
80-400 mm.
(3"-16")



Short-swept straight H
125-300 mm.
(5"-12")



Short-swept straight reducer H
125x80-250x200 mm.
(5"x3"-10"x8")



22.5° short-swept elbow H
18-300 mm.
(1/2"-12")



45° short-swept elbow H
18-300 mm.
(1/2"-12")



90° short-swept elbow H
18-300 mm.
(1/2"-12")



**Short-swept spigot flange H
25-300 mm.
(1"-12")



**Short-swept flange with spigot ES/H
25-400 mm.
(1"-16")
Excluding 350 mm. (14")

* Pre-ordered products

** For 1"-2 1/2", the flange is made of "PVC", for 3" and above, the flange is made of "blue steel"

SCG PVC Fittings for Drainage System (non-pressure Pipe)

Thailand Industrial Standards (TIS. 1410-2540) "Rigid PVC Fittings for Drainage, Wastewater, and Ventilation"

Machine Extrusion (Extruded Fittings)

Dimension (mm./inch)

	25 (1")	35 (1 1/4")	40 (1 1/2")	55 (2")	65 (2 1/2")	80 (3")	100 (4")	125 (5")	150 (6")	200 (8")	250 (10")	300 (12")	350 (14")	400 (16")
 Straight (slim)		•	•	•	•	•	•	•	•	•				
*  45° elbow (slim)		•	•	•	•	•	•	•	•	•	•	•	•	•
*  90° elbow (slim)		•	•	•	•	•	•	•	•	•	•	•	•	•
 Tee (slim)		•	•	•	•	•	•	•	•	•	•	•		
 Y (slim)			•	•	•	•	•	•	•	•				
 Tee-Y (slim)			•	•	•	•	•	•	•	•				
 Cross (slim)							•							
  Spigot cap				•		•	•	•						
 Spigot cap (brass)				•		•	•		•					
 Flashing				•			•							
 Short-swept flashing			A	B		B	B							
 U-trap				•										
 U-trap (with cleanout)			•	•		•								
 P-trap (with cleanout)			•	•		•								
 S-trap (with cleanout)				•										
 Drain spigot	•													
 Cap (slim)		•	•	•	•	•	•		•	•				
 Bushing				•										

* 250 mm. is the pre-ordered products (imported products).

SCG PVC Fittings for Drainage System (non-pressure Pipe)

Thailand Industrial Standards (TIS. 1410-2540) "Rigid PVC Fittings for Drainage, Wastewater, and Ventilation"

Machine Extrusion (Extruded Fittings)

Dimension (mm./inch)



	Eccentric reducer (slim)	Tee reducer (slim)	Wye reducer (slim)	Tee-wye reducer (slim)	Bushing reducer	Eccentric bushing reducer (slim)	Vent elbow	4-way reducer	Cross reducer	Flashing reducer
40 x 35 (1 1/2" x 1 1/4")	●									
55 x 35 (2" x 1 1/4")	●	●				●				
55 x 40 (2" x 1 1/2")	●	●								
65 x 40 (2 1/2" x 1 1/2")	●		●	●						
65 x 55 (2 1/2" x 2")	●	●	●	●						
80 x 40 (3" x 1 1/2")	●	●	●							
80 x 55 (3" x 2")	●	●	●	●				●		●
80 x 65 (3" x 2 1/2")	●	●	●	●						
100 x 25 (4" x 1")							●			
100 x 40 (4" x 1 1/2")	●		●	●			●			
100 x 55 (4" x 2")	●	●	●	●	●		●		●	●
100 x 65 (4" x 2 1/2")	●	●	●	●						
100 x 80 (4" x 3")	●	●	●	●	●					
** 125 x 80 (5" x 3")				●						
125 x 100 (5" x 4")				●						
150 x 80 (6" x 3")			●	●						
150 x 100 (6" x 4")	●	●	●	●	●					
* 200 x 100 (8" x 4")	●	●	●	●						
* 200 x 150 (8" x 6")	●	●	●	●						
** 250 x 150 (10" x 6")		●								
** 250 x 200 (10" x 8")	●	●								
** 300 x 200 (12" x 8")	●	●								
** 300 x 250 (12" x 10")	●									

* Special-rated products

** For 1"-2 1/2", the flange is made of "PVC", for 3" and above, the flange is made of "blue steel".

SCG PVC Fittings for Drainage System (non-pressure Pipe)

Thailand Industrial Standards (TIS. 1410-2540) "Rigid PVC Fittings for Drainage, Wastewater, and Ventilation"

* Crafted from Pipes (Hand-crafted)



W

45° elbow (solvent weld)
200-300 mm.
(8"-12")



W

90° elbow (solvent weld)
200-300 mm.
(8"-12")



W

Tee (solvent weld)
125, 200-300 mm.
(5", 8"-12")



W

Tee reducer (solvent weld)
100x35-300x250 mm.
(4"x1 1/4"-12"x10")



W

Wye (solvent weld)
125x300 mm.
(5"-12")



W

Wye reducer (solvent weld)
55x40-300x250 mm.
(2"x1 1/2"-12"x10")



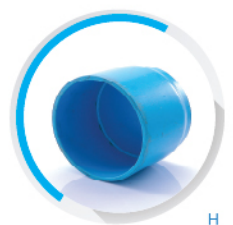
W

Wye-tee (solvent weld)
35-300 mm.
(1 1/4"-12")



W

Wye reducer (solvent weld)
55x35-300x250 mm.
(2"x1 1/4"-12"x10")



H

Cap (hand-crafted)
125-300 mm.
(5"-12")



W

Vent elbow
40x20-150x55 mm.
(1 1/2"x3/4"-6"x2")



W

Cross (solvent weld)
150-300 mm.
(6"-12")



W

4-way (solvent weld)
55-150 mm.
(2"-6")



W

4-way reducer (solvent weld)
100x65-150x100 mm.
(4"x2 1/2"-6"x4")



W

Cross (solvent weld)
55-150 mm.
(2"-6")



W

Cross reducer (solvent weld)
80x55-150x125 mm.
(3"x2"-6"x5")



H

**Flange
35-300 mm.
(1 1/4"-12")



H

P-trap (with cleanout)
40-100 mm.
(1 1/4"-4")



H

Spigot with threaded plugs
55-250 mm.
(2"-10")



W

**Spigot flange with (solvent weld)
55-150 mm.
(2"-6")

* Special-rated products

** For 1"-2 1/2", the flange is made of "PVC", for 3" and above, the flange is made of "blue steel"

“SCG Pipe”, High-quality Product Trusted by Leading Projects

IVY RIVER PROJECT

PROPERTY PERFECT

THE ROOM

IVY RATCHADA

THE PANO

How to Connect PVC Pipes with Solvent Cement



1. Use a metal saw or pipe cutter to cut the pipe to get the right angle and desired length.



2. Use a steel pile to smooth the surface around the pipe's edge to create a 15-degree inclined surface.



3. Use a pipe cleaner to wipe the inside of the fitting and the pipe's edge to get rid of grease, dust, and moisture.



4. Measure the depth for inserting the pipe into the fitting.



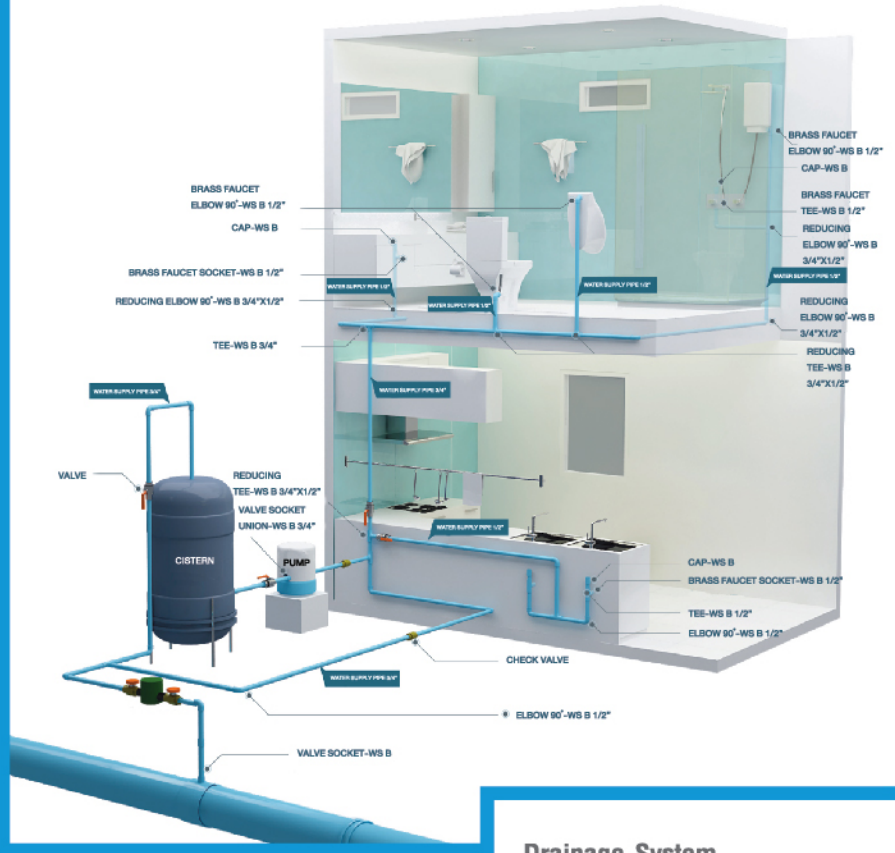
5. Apply the SCG solvent cement to the internal surface of the fitting, then apply the cement on the outside (always stir the solvent cement before use).

6. Slip the edge of the pipe onto the fitting and push the pipe into the mark, then press the connected area for 10-15 seconds.

7. Wipe off the excess cement and leave the pipe to let the cement harden itself before use.
 - For concentrate cement, leave the cement for at least 5 minutes (depending on the size of the pipe)
 - For transparent cement, leave the cement for at least 20-30 minutes (depending on the size of the pipe)

For maximum pressure rating efficiency, leave the cement to be hardened for at least 24 h. before use.

Water supply System



Drainage System

