

# SCG PIPE

Expertise in Pipe System



**SCG PIPE LIBRARY**



For Android



For iOS

**SCG PIPE WEB**



# ABOUT PRODUCTS

Nawaplastic Industries Co., Ltd. is one of companies in Siam Cement Group (SCG), a pipe manufacturer named “SCG Pipe” since 1970 with long experience and high determination to correspond various needs and customers’ satisfaction. In order to be a leader in pipe & fitting system market such as water supply & drainage system, hot water system, electrical& communiton system, agricultural watering system, and public utility system, for both pipes, and fittings, we are focusing on continuously developing product quality and product itself to be variety and fulfill convenience on all piping systems.

## “BEST OF CLASS” STANDARD

### Higher Quality

- \* Quality controlled by specialist team in every process from materials check until product delivery to your hands.
- \* Since the products are manufactured by global standard hi-tech machines, all are high quality and ecology.

### Better Service

- \* Before and after sale service by professional team.
- \* Quick delivery service in all countries' areas.

### More Readiness

- \* Sufficient manufacture ability to correspond to customers’ needs from both domestic and overseas.
- \* Variety of package, sockets and other parts sufficient to the customers’ demands.
- \* Having global alliance to support and fulfill entire production such as HENKEL (worldwide level leader in chemicals and adhesives products) and SEKISUI CHEMICAL, etc.

RAW MATERIAL PREPARATION



STANDARD CONTROL



QUALITY TESTING



SUFFICIENT TO THE CUSTOMERS' DEMANDS



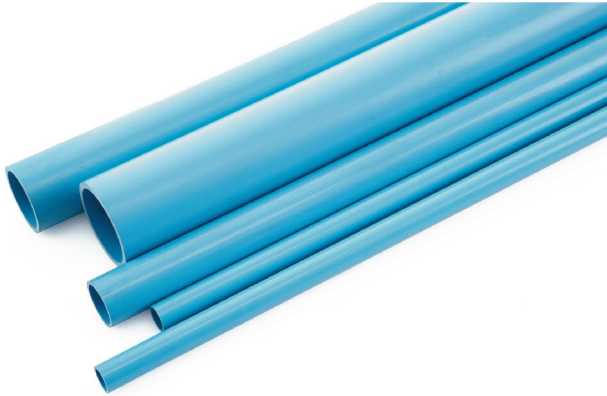
## “SCG PIPE” PIPE EXPERT IN PIPE SYSTEM



# SCG PVC PIPE

for water supply and drainage system

uPVC (Unplasticized Polyvinyl Chloride) or Rigid PVC products are currently utilized for construction due to its outstanding characteristics such as sustainability to climate and humidity, no-rust and no flammability without serious maintenance. Therefore, you will be confident in your selected pipes that are suitable for your targeted quality works.



## SCG PVC FITTINGS for water supply system

(under Thai Industrial Standard TIS No.1131-2535 (1992))



## SCG PVC FITTINGS for drainage system

(under Thai Industrial Standard TIS No.1410-2540 (1997))



### FEATURES OF SCG PVC PIPES AND FITTINGS FOR WATER SUPPLY AND DRAINAGE SYSTEM



#### Resistance to pressure and compression

Since SCG PVC pipes manufactured from high quality materials which have excellent viscosity, flexibility under the industrial standard, they are durable to high water pressure inside the pipe and the compression from outside the pipe very well.



#### Non-toxic substance

Due to SCG PVC pipes have non-toxic substance, water inside the pipes is clean, non-contaminated without change in color and odor.



#### Electrical insulator

SCG PVC Pipes are non-metal, so they are electrical insulators. Especially, in case of fire, they are incombustible.



#### Resistance to UV

Due to proper composition of Titanium Dioxide, SCG PVC Pipes can efficiently prevent UV. Therefore, they are uneasy to crack or break.



#### Under Thai Industrial Standard

SCG PVC pipes and fittings received approval from Thai Industrial Standard No. TIS 17-2561(2018), TIS 1131-2535 (1992) and TIS 1410-2540 (1997)



#### Rust-proof, water tightness and toughness

With special features of SCG PVC pipes, they are rust-proof and water tightness, etc.



#### Lightweight

SCG PVC pipes weight is only one-fifth of the galvanized steel pipes. Therefore, it is easy to deliver and install.



#### Resistance to acidity and alkalinity

SCG PVC pipes are resistant to weak acids and alkali, so there is no concern about oxidation problems and the product's life-time last longer.

### How to weld SCG PVC pipe and fittings with SCG PVC Solvent Cement.



1. Cut the pipe squarely with a hacksaw or a PVC pipe cutter.



2. Chamfer pipe edge smooth with the file with a slope of 15°.



3. Measure the pipe by inserting into the fittings and mark the position.



4. Clean the inside of the fittings and pipe end with PVC cleaner agent to remove oil film dust and moisture.



5. Apply SCG PVC Solvent Cement inside of fittings and outer surface of the pipe.



6. Push pipe end firmly into the fittings to the marked position and press it for about 15 seconds.



7. Wipe off excessive "SCG PVC Solvent Cement" and leave to dry for approximately 10 minutes before use.

## SCG SOLVENT CEMENT

For PVC pipe and fittings

### “Homogeneous weld”

SCG Solvent Cement has higher solubility than others. Due to intensive composition, you can be confident that PVC pipe and fitting could joint together intimately.

### FEATURES OF SCG SOLVENT CEMENT (HIGH PRESSURE) FOR HIGH PRESSURE WORK



#### Suitable for high pressure

It is durable high pressure maximum to 16 Bar, so it fits for high-quality project such as high building or swimming pool.



#### Capable for melting and joint the pvc pipes and the fitting

With SCG solvent cement is special to PVC, you can confident in your desired work.



#### International Quality & Standard

SCG solvent cement (high pressure) has been approved from both domestic and overseas such as ASTM D2564, BS 4346, DIN 169790, and TIS 1032-2534.



Size 40, 125, 250, 500 and 1,000 grams



The product qualifies for LEED v4 and LEED v4.1.



#### Suitable for urgent repair

It is able to rapidly adjoin with the pipe, so it fits for any urgent



#### Low VOCr, safety to use

SCG solvent cement for PVC pipe and fitting has VOCr level less than standard solvent cement at least 80%\*

\*Volatile Organic Compounds Retained (VOCr) is volatilized from the product which could harmful for respiration system. The criteria for green building of TREES, LEED and WELL specifies that VOCr value must not exceed 510 g/l for consumer safety.

### FEATURES OF SCG SOLVENT CEMENT (STANDARD) FOR REGULAR PRESSURE WORK



#### Suitable for general work

It is durable for the water pressure in normal use such as the water supply system in house and low-rise building



#### Suitable Concentration Adjustment

Due to the concentration of SCG Solvent Cement is suitable, it is able to adjust after connect it together



#### Thai Industrial Standard

SCG solvent cement (Standard) has been approved by Thai Industrial Standard No. TIS 1032-2534



#### Spontaneously PVC soluble

Due to SCG Solvent cement is spontaneously soluble to PVC, you can be confident in work



Size 50, 100, 250, 500 and 1,000 grams with brush 100, 250, 500 and 1,000 grams



#### Low VOCr, safety to use

SCG solvent cement for PVC pipe and fitting has VOCr level less than standard solvent cement at least 80%\*

\*Volatile Organic Compounds Retained (VOCr) is volatilized from the product which could harmful for respiration system. The criteria for green building of TREES, LEED and WELL specifies that VOCr value must not exceed 510 g/l for consumer safety.

# SCG PVC BALL VALVE

for water supply and agriculture water system

## “Easy to use, Durable”

uPVC product (Unplasticized Polyvinyl Chloride) or Rigid PVC are currently utilized for water supply and agricultural water system. Due to the distinctive qualities, for instance, it is durable for humid and fire, but not rusty, leak and incombustible. It is also easy to use and maintain. Due to the higher qualified material ball valve, it can endure the high pressure.



## FEATURES OF SCG PVC BALL VALVE



### Easy to turn on and off

By innovative design technology and modern manufacturing process which is concerned the usage, SCG PVC ball valve is easy and convenient to turn on and off without leakage.



### Resistance to high temperature maximum to 60 °C

Due to property of polymer, SCG PVC ball valve is able to use for water supply at temperature upto 60°C



### High quality raw materials

SCG PVC ball valve is manufactured from high quality materials, without using recycle, which is concerned about quality and consumers' hygiene.



### Resistance to acidity and alkalinity

SCG PVC ball valve is resistant to weak acids and alkali, so there is no concern about oxidation problems which results in longer product's lifetime. Please read SCG PVC pipe manual before using SCG PVC ball valve with any chemical.



### Suitable for water supply and agricultural water system

Manufactured from high quality PVC by innovative design technology, which is compatible with water pump for both water supply and agricultural water system.

## Components of SCG PVC BALL VALVE



### Handle

Manufactured from ABS, which is efficiently resistant to impact and heat. It is suitable for both indoor and outdoor. It results to long life of handle.



### Body

Made from high quality PVC; smooth, slippery and strong. Besides, it is made to fit with stem ball and seal to prevent leakage. High pressure can be used.



### Seal

Manufactured from TPV (Thermoplastic Vulcanizate), which is efficiently resistant to heat and highly flexible. It is also high durability for all environments and not leak easily.



### O-ring

Using NBR rubber which is flexible and resistant to high tensile strength, make o-ring is to ensure that everytime stem Ball is in the close position, there will be no water passthrough.



### Stem ball

As it is made from high standard material PVC and technology, the ball's surface is smooth and slippery, therefore it is easy to turn on and off.

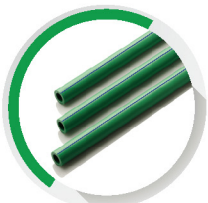
## SCG PP-R PIPE

for water supply and hot water system

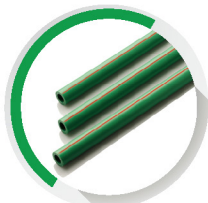
### Easy to install, Reliably Leak-Free

SCG PP-R pipes and fittings are manufactured from plastic, PP-R 80 (Polypropylene Random Copolymer 80), a high quality material with the European standard. They can withstand maximum working pressure up to 20 bars and working temperature up to 95°C as specified in the standard. PP-R pipes and fittings must be jointed by heat fusion for homogeneity and leak-free connection. They are suitable for water supply and hot water piping system, including chilled water piping system and hot air ducts in air conditioning system. Those are applied in houses, hotels, hospitals, department stores, buildings and skyscrapers, etc.

- In compliance with the products standard DIN 8077, DIN 8078 for pipes and DIN 16962-5 for fittings.
- High quality, hygienic and safe with a globally certified international standard.



PP-R PIPE PN 10 (SDR 11) ●  
For water supply piping system



PP-R PIPE PN 20 (SDR 6) ●  
For water supply and hot water piping system



PP-R PIPE FIBER COMPOSITE  
PN 20 (SDR 6) ●  
For water supply and hot water piping system



### FEATURES OF SCG PP-R PIPE FOR WATER SUPPLY AND HOT WATER SYSTEM



**No leakage issue with heat welding installation**  
SCG PP-R Pipes are easy to install by PP-R Pipes welding machine. PP-R pipes and fittings can be welded homogeneously by heat. This ensures no leakage issue.



**Clean, Rust-proof, no heavy metal and contamination**  
Due to property of polymer, water flowing through in SCG PP-R pipe is clean and hygienic without rust, heavy metal, contamination, color, odor, moss and algae formation in the pipe.



**Lighter and cheaper comparing to copper pipe**  
SCG PP-R pipe is cheaper and lighter than steel or copper pipe. With this property, it is worth and easy to deliver, easy to install, homogeneous welded with heat and no leakage.



**Long lifetime**  
With high quality materials of SCG PP-R pipe, it is not easy to crack. It resists to chemical agents and also no rust or corrosion occurred.



**Energy-saving material, maintaining the temperature better than copper pipe**  
SCG PP-R pipe is thermal insulator, it keeps water's high temperature better than steel and copper pipe. Since it is lower heat loss during high temperature water pass the pipe, you can save the cost of electricity and no insulator required.



### HOW TO WELD SCG PP-R PIPE AND FITTINGS WITH PP-R WELDING MACHINE



1. Cut the pipe squarely with a hacksaw or a PP-R pipe cutter.



2. Mark the position of welding depth on the pipe by measuring length of the pipe when connect with the fitting.



3. Put the pipe and the fitting into the mould of welding machine at the same time. (Make sure temperature of welding machine reach to working temperature normally 250-260°C.) Insert the pipe until reach the marked position. Heating time depends on pipe's size mentioned on the heating time table in the catalog.

4. Push the heated pipe end firmly with the fitting to reach the marked position and hold them for a moment according to the welding time table in the catalog. (Cooling time)

5. After completed the cooling time, the jointed pipe is ready for your desired work.



## SCG PVC CONDUIT (YELLOW)

for electrical and communication system

uPVC (Unplasticized Polyvinyl Chloride) of rigid PVC products are currently utilized for construction due to its outstanding characteristics, for instance, sustainability to climate and humidity, unrustability and nonflammability without serious maintenance. SCG PVC electrical and communication conduit (yellow), confirming to TIS. 216-2524 (1981) is non metallic conduit having highly insulation performance and endure high voltage in any condition. It is also good fire resistance and self extinguishing performance. Therefore, you will be confident in your selected pipes that are suitable for your targeted quality works.



### FEATURES OF SCG PVC CONDUIT AND FITTINGS FOR ELECTRICAL AND COMMUNICATION SYSTEM (YELLOW)



#### Insulation Performance

With insulation property of PVC, SCG PVC conduit is non-conductive when electricity is leakage.



#### Non - flammable

Good fire resistance with self extinguishing performance when it closed the fire and not spreading fire.



#### Completeness system

Providing variety of fittings and accessories to fulfill your requirement and desired work.



#### Resistance to UV and Acidity

With appropriate levels of Titanium dioxide, SCG PVC conduit can efficiently prevent UV and resistant to acids and bases, It can be used in every circumstance exposed; outdoor, in wall or interior work without crack and rust.



#### Easy to install and save cost

Due to light weight, SCG PVC conduit, is easy to carry, install, repair and also save money and time.



#### Thai Industrial Standard (TIS)

SCG PVC conduit and fittings received approval from Thai Industrial Standard; TIS 216-2524 (1981) for conduit and TIS 1131-2535 (1992) for fittings.

### Properties of SCG Yellow Corrugated PVC Conduit

Made from uPVC with flame-retardant properties, durable and can withstand high impact and pressure, and also highly flexible. There is no need for pre-installation bending. Made for convenient and speedy installation. Suitable for indoor electrical wiring on wall or on ceiling.



#### High Flexibility

High flexibility allows for easy bending in areas with limited space.



#### Easy installation

Lots of equipment and options available. Suitable and compatible with any work requirements.



#### Corrosion Resistance

High chemical resistance. Can be used in all environments.



#### JIS Standard

Manufactured under the standard JIS C 8461, a globally recognized international standard



## SCG PVC CONDUIT (WHITE) BS

for electrical and communication system

uPVC products (Unplasticized Polyvinyl Chloride) or Rigid PVC are currently utilized for construction due to its outstanding characteristics such as sustainability to climate and humidity, non-flammability, low maintenance and rust free. These electrical and telecom conduit (White) BS with IEC 61386 standard have good electrical insulation properties and can withstand 1000 VAC or 1,500 VDC Voltage. Thus, you can be assured of its installation safety and high durability under different environments as well as safety in the event of fire.



### Properties of SCG "ELECTRIC AND TELECOM CONDUIT" (WHITE)" BS



#### Insulation Performance

With insulation property of PVC, SCG Conduit will remain non-conductive when electricity is leakage.



#### Resistance to UV

With appropriate levels of Titanium Dioxide as a component, SCG Conduit can efficiently prevent UV, without crack.



#### Non-Flammable

Manufactured under IEC 61386 for special fire retardant properties. This assures additional safety in the event of fire.



#### Product Ubiquity and Light Weight

SCG Conduit is widely available and can be bought from authorized distributors nationwide. The light weight of the product also makes shipment very easy and convenient.



#### Complete System Solution

A variety of fittings and equipment are available. You can easily choose to fulfill your requirement, allowing for cost-saving solutions.



#### Glossy white color

Suitable for interior works and building without repainting.



#### 90° Bendability

High flexibility from impact modifier. SCG Conduit can be bent without heat and withstand high impact / pressure.



#### IEC/ BS Standard

Manufactured under the standard IEC 61386, a globally recognized international standard.

### Properties of SCG White Corrugated PVC Conduit – BS

Made from uPVC with flame-retardant properties, durable and can withstand high impact and pressure, and also highly flexible. There is no need for pre-installation bending. Made for convenient and speedy installation. Suitable for indoor electrical wiring on wall or on ceiling.



#### High Flexibility

High flexibility allows for easy bending in areas with limited space.



#### Easy installation

Lots of equipment and options available. Suitable and compatible with any work requirements.



#### Corrosion Resistance

High chemical resistance. Can be used in all environments.



#### IEC/ BS Standard

Manufactured under the standard IEC 61386, a globally recognized international standard.



## SCG PVC CONDUIT (WHITE) JIS for electrical and communication system

uPVC products (Unplasticized Polyvinyl Chloride) or Rigid PVC are currently utilized for construction due to its outstanding characteristics such as sustainability to climate and humidity, corrosion resistance, non-flammability and low maintenance. These electrical and telecom conduit (White) with JIS C 8430 standard have good electrical insulation properties and can withstand voltage. Thus, you can be assured of its installation safety and high durability under different environments as well as safety in the event of fire.



### Properties of SCG "ELECTRIC AND TELECOM CONDUIT" (WHITE) JIS



#### Insulation Performance

With insulation property of PVC, SCG Conduit will remain non-conductive when electricity is leakage.



#### Non-Flammable

Manufactured under JIS standard C 8430 for special fire retardant properties. This assures additional safety in the event of fire.



#### Complete System Solution

A variety of fittings and equipment are available. You can easily choose to fulfill your requirement, allowing for cost-saving solutions.



#### Resistance to UV

With appropriate levels of Titanium Dioxide as a component, SCG Conduit can efficiently prevent UV, without crack.



#### Product Ubiquity and Light Weight

SCG Conduit is widely available and can be bought from authorized distributors nationwide. The light weight of the product also makes shipment very easy and convenient.



#### Glossy white color

Suitable for interior works and building without repainting.



#### 90° Bendability

High flexibility from impact modifier. SCG Conduit can be bent without heat and withstand high impact / pressure.



#### JIS Standard

Manufactured under the standard JIS C 8430, a globally recognized international standard.

### Properties of SCG White Corrugated PVC Conduit - JIS

Made from uPVC with flame-retardant properties, durable and can withstand high impact and pressure, and also highly flexible. There is no need for pre-installation bending. Made for convenient and speedy installation. Suitable for indoor electrical wiring on wall or on ceiling.



#### High Flexibility

High flexibility allows for easy bending in areas with limited space.



#### Easy installation

Lots of equipment and options available. Suitable and compatible with any work requirements.



#### JIS Standard

Manufactured under the standard JIS C 8430, a globally recognized international standard.



#### Corrosion Resistance

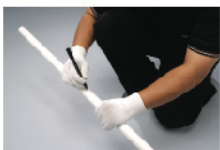
High chemical resistance. Can be used in all environments.



### Bending Instructions for SCG "ELECTRIC AND TELECOM CONDUIT" (WHITE)



1. Cut the conduit at the angle and length desired with a hacksaw or a pipe cutter.



2. Mark the position to bend on the conduit.



3. Tie one end of the pipe bending spring and insert the other end into the conduit. The marked position on the conduit should be directly above the center / half way point of the spring.



4. Bend the conduit with knee. Keep the position for 10 seconds so that the conduit stays in the intended angle. Bend the conduit a little bit more than the angle intended to prevent shape reversion.



5. Take out the pipe bending spring and connect the bended conduit with other equipment / connectors as needed.



6. Install the bended conduit and use as needed.

## SCG TRUNKING

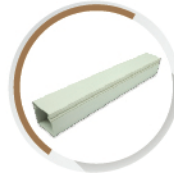
SCG Trunking is made from uPVC (Unplasticized Polyvinyl Chloride) and intended for organizing electric and telecom cables. It is a durable and high quality insulator so you can be assured of safety during installation. The product is also highly tolerant under different environments. It is also non-flammable which can mean additional safety in the event of fire.

● SCG Trunking is available in 5 different types, as follows:



### Telephone Duct

- Suitable for organizing electric and telecom cables on a narrow wall or on the floor.



### Wire Way

- Suitable for general electrical wiring. The large space within the trunking can hold a large volume of wires.



### Decorative Trunking

- The top of the trunking is flat, making it suitable for interior decorative work in a building or a residence.



### Floor Duct

- Especially suitable for on-the-floor installation as the top cover is curved and can prevent tripping.



### Wire Duct

- With slots on both sides of the trunking, this trunking is suitable for organizing different types of cables to separate cables at different points for different uses.

### Properties of SCG Trunking



Thick and tough under impact



Smart lock for secure tightening. The cover does not easily come off.



Made from uPVC, Non-Flammable

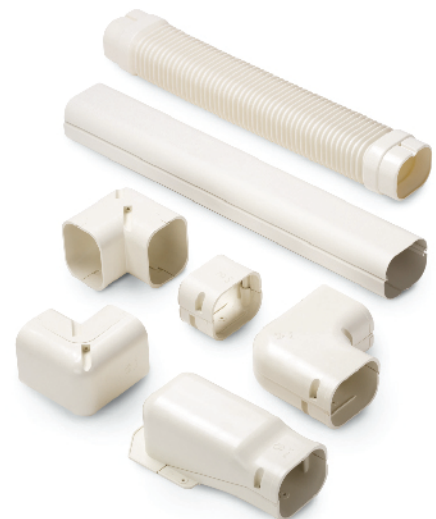


Lead and mercury free. Health hygiene

## SCG Slim Duct

### Well-Designed, Durable, and Long Lifetime

SCG Slim Duct is made from high quality vinyl materials. It is suitable for both indoor and outdoor installation. It is durable under every environment. It will help extend the life and usability of the air conditioners. This is because the trunking adds another layer of protection to the insulation that covers the copper inside of the air duct. Moreover, the duct also protects different components of the air-conditioner from damage or gnawing of small animals. Without mercury and other contaminating substances, the duct will remain stain-free throughout its lifetime.



### Properties of SCG Slim Duct



The color of SCG Slim Duct does not change for up to 2 years.



Long life and usability. Does not become brittle easily.



Made from high quality vinyl material, Non-Flammable



Lead and mercury free. Health hygiene

# SCG PVC PIPE AND FITTINGS

for agricultural water supply system

uPVC Product (Unplasticized Polyvinyl Chloride) or Rigid PVC are currently utilized for agricultural water supply system. Due to the distinctive qualities, for instance, it is durable for humid and fire, but not rusty, and easy to maintain, etc, we can guarantee that it is the best choice for quality work.



## FEATURES OF SCG PVC PIPE FOR AGRICULTURAL WATER SUPPLY SYSTEM



### Resistance to pressure and compression

Due to SCG PVC pipes manufactured from high quality materials which have excellent viscosity, flexibility under the high quality standard, they are durable to high water pressure inside the pipe and the compression from outside the pipe.



### Resistance to UV

Due to proper composition of Titanium dioxide, SCG PVC Pipes can efficiently prevent UV. Therefore, they are uneasy to crack or break.



### Water can regularly flow without precipitation

Due to SCG PVC pipe has smooth both inside and outside surface, water can regularly and smoothly flow in the pipe.



### Variety of fittings and accessories

SCG PVC fittings and accessories are varieties and fulfilling your desired



### Easy to purchase and lightweight

Easy to find and purchase from our agents across Thailand.

## SCG Suction Hose

For agricultural water supply system



**“Durable, Quality Standard, Reliable for all uses”**

SCG Suction Hose for agricultural water supply system is made from uPVC (Unplasticized Polyvinyl Chloride) and high quality materials. It is tough, durable and can withstand high pressure and strong suction. SCG Suction Hose is also lightweight and easy to install. It is long lifetime

SCG Suction Hose comes indifferent sizes, from 1 - 4 inches, and lengths from 6, 12, and 24 m./roll.

## SCG Flexible Hose

For agricultural and household water supply systems



**“Strong, Durable, Does not brittle easily”**

SCG Flexible Hose for agricultural and household water supply systems is made from uPVC (Unplasticized Polyvinyl Chloride) and high quality materials. It is tough, durable and highly elastic. SCG Flexible Hose can withstand both high pressure and direct sunlight. It is also lightweight and long lifetime.

SCG Flexible Hose comes in different sizes, from 1/2 - 2 inches, and lengths from 30, 50 and 100 m./roll. Both thick and thin-walled variations of the product are available.

## Properties of SCG Suction Hose and SCG Flexible Hose



### Strong, Durable, and Lightweight (SCG Suction Hose)

Made from high quality materials making the hose very tough, strong, durable and able to withstand both high pressure and strong suction. It is also very easy to use due to its light weight.



### Strong, Durable (SCG Flexible Hose)

Made from high quality materials making the hose strong, durable and able to withstand high pressure. It is also made for long usability.



### Highly Flexible

With modern production technology, SCG PVC Soft Rubber Hose is highly flexible. It is able to be curved freely, bent well and also very easy to use.



### Durable in Every Environment

With high quality materials and components, the hose can withstand both acidity and alkalinity, chemicals and sunlight. It also does not brittle or tear easily.

## SCG FLEXIBLE HOSE-FANCY

For household water supply system



**“Strong, Durable, Beautiful Color”**

SCG Flexible Hose-Fancy is made from uPVC (Unplasticized Polyvinyl Chloride) and high quality materials with high flexibility. It is UV resistant and does not become brittle. With food grade paint, the product is safe to touch. SCG Flexible Hose-Fancy is also made for long usability

The product size is 5/8 inches with length from 10, 15 to 20 meters/roll. It comes in 4 different colors: white, blue, green, and orange, and is provided in 2 types; normal type and special type with water hose nozzles (2-level adjustable nozzles: Spray Type and Jet Type; The nozzles are durable, very easy to use, and easy to install with the built in Easy Socket System).

### Properties of SCG FLEXIBLE HOSE-FANCY



#### Strong, Durable

Made from high quality materials; the product is strong and highly durable. With its light weight, the product is very easy to use.



#### Beautiful Color

The product comes in 4 different colors.



#### High Durability for All Environments

With high quality materials and components, the product is resistant to chemical and UV. It does not brittle easily.

## SCG MULTIPURPOSE HOSE

For agricultural irrigation and household water supply system



**“Strong, Durable, Algae-free”**

SCG Multiple Hose is made from uPVC (Unplasticized Polyvinyl Chloride) and high quality materials with high flexibility. It is not transparent thus making it algae resistant. It is also UV resistant and durable. It does not become brittle easily. SCG Multipurpose Hose is surely made for long usability.

The product size is 5/8 - 1 inch with length from 10, 15, 20, 30, 50 to 100 meters/roll. It comes in 2 different colors: green and blue and is sold as normal type and special type with water hose nozzles (2-level adjustable nozzles: Spray Type and Jet Type; The nozzles are durable, very easy to use, and easy to install with the built in Easy Socket System).

### Properties of SCG MULTIPURPOSE HOSE



#### Strong, Tough, Durable

Made from high quality materials; the product is tough, strong and highly durable. With its light weight, the product is very easy to use.



#### Soft and Highly Flexible

With modern technology, the hose is highly flexible. It does not fold or become brittle yet remains bendable and flexible for use.



#### Algae-Free

It is not transparent thus making it algae resistant.



#### High Durability for All Environments

With high quality materials and components, the product is resistant to acidity and alkalinity. It is also UV resistant and does not brittle easily.

## SCG GARDEN HOSE-REINFORCED

For Household Water Supply System



**“Strong, Durable, Resistant to pressure up to 8 Bars”**

SCG Garden Hose-Reinforced is made from uPVC (Unplasticized Polyvinyl Chloride) and high quality materials. It is 3-layered and reinforced with Polyester, making it strong and very durable. UV resistant and does not become brittle. SCG Garden Hose-Reinforced is also made for long usability.

The product size is 5/8 inches with length from 10 and 20 meters/roll. It comes in 2 different colors: blue and green.

### Properties of SCG GARDEN HOSE-REINFORCED



#### Strong, Durable

Made from high quality materials and polyester reinforcing production technology; the product is resistant to pressure up to 8 bars. The product also has long lifetime and its light weight also makes it very easy to use.



#### Soft and Highly Flexible

With modern technology, the hose is highly flexible. It does not fold, break or become brittle, yet it is bendable and still flexible for use.



#### High Durability for All Environments

With high quality materials and components, the product is resistant to acidity, alkalinity and UV. It does not brittle easily.

## SCG MULTIPURPOSED FANCY HOSE

For household water supply system



**“Strong, Durable, Clean, Clear, and Does not Fold”**

SCG Multipurposed Fancy Hose is made from uPVC (Unplasticized Polyvinyl Chloride) and high quality materials with high flexibility. It is not transparent thus making it algae resistant. It is also UV resistant and durable. It does not become brittle easily. SCG Multipurposed Fancy Hose is surely made for long usability.

The product size is 5/8 inches with length from 10, 15 to 20 meters/roll. It comes in 3 different colors: blue, green, and orange and is sold as normal type and special type with water hose nozzles (2-level adjustable nozzles: Spray Type and Jet Type; The nozzles are durable, very easy to use, and easy to install with the built in Easy Socket System).

### Properties of SCG MULTIPURPOSED FANCY HOSE



#### Strong, Tough, Durable

Made from high quality materials; the product is tough, strong and highly durable. It has long usability and its light weight also makes it very easy to use.



#### Soft and Highly Flexible

With modern technology, the hose is highly flexible. It does not fold or become brittle easily yet remains bendable and flexible for use.



#### Beautiful Color

The product comes in 3 different colors.



#### High Durability for All Environments

With high quality materials and components, the product is resistant to acidity and alkalinity. It is also UV resistant and does not brittle easily.

# SCG PE PIPE AND FITTING

For Agriculture Work

## Durable, Quality Standard, Reliable for all Uses

SCG PE Pipe and Fitting are made from PE (Polyethylene) and high quality materials. They are strong, durable and can withstand high pressure. The products do not tear easily. They are very flexible and easily bendable and also resistant to acidity, alkalinity, chemicals and UV. It does not become brittle easily and has very light weight. The products are easy to install and requires minimal maintenance but has long usability. The product sizes range from 16-32 mm. (3/8" - 1") with length from 100 to 200 meters/roll. The fittings and tools are offered with great variety and suitable for every work requirements.



## Properties of SCG PE Pipes and Fittings for Agricultural Work



### Tough, Non-brittle

Made from high quality material so it is tough and highly flexible and does not become brittle easily.



### High Durability for All Environments

Can withstand both acidity and alkalinity as well as direct and prolonged UV. Thus, you can be assured of its long life and usability.



### Resistance to high pressure

Thicker material and suitable for use in every terrain: flat areas, slopes, or foothills.



### Complete System Solution

A variety of fittings and equipment are available. You can easily choose what best suits your work requirements, allowing for cost-saving solutions.



### Easy to buy

Easy to buy. Available at authorized distributors nationwide.

## Assembling SCG PE Pipe and Fitting for Agricultural Work (Connectors)



1. Assemble locking clip for SCG PE Pipe and Fitting for agricultural work.



3. Tightly fasten the locking clip on the PE pipe.



2. Connect both SCG PE Pipe and Fitting. Make sure that each piece goes all the way in.

## Assembling SCG PE Pipe and Fitting for Agricultural Work (Permeate Connector with a PVC Pipe)



1. Make a 16 mm. hole on the PVC pipe with electric drill for a 16 mm. permeate valve or 17 mm. hole for 20 mm. permeate valve.



3. Connect permeate fitting onto the rubber ball. Make sure to push the fitting all the way in.



2. Insert a rubber ball in the drilled hole.



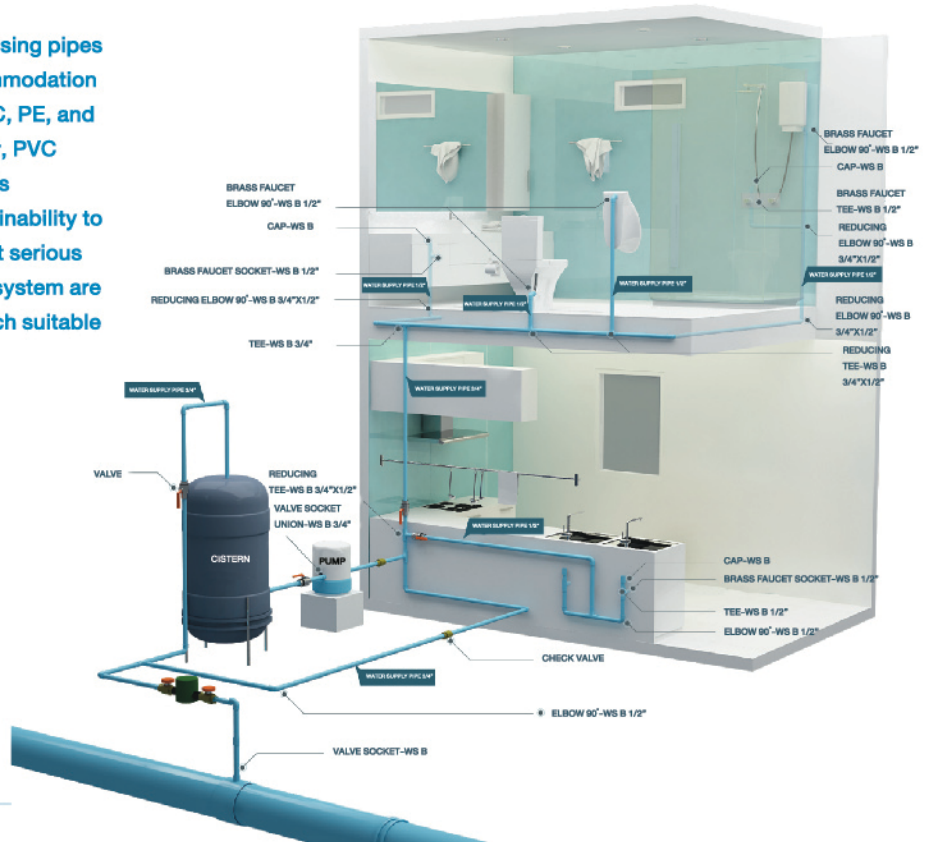
4. Connect with a PE pipe for agricultural work according to desired use.

\*Apply soap water or dishwashing soap water on the rubber ball for easy and effortless assembly.

# PIPE KNOWLEDGE IN PIPE SYSTEM

## Water Supply System

It is a system for water consumption by using pipes to provide water to each area in an accommodation ex. bathroom and kitchen. In general, PVC, PE, and Galvanized pipe are being used. However, PVC pipe is the most popular recently due to its outstanding characteristics such as sustainability to climate and humidity, no rust, and without serious maintenance. PVC pipe for water supply system are normally 1/2–1 inch with class of 13.5, which suitable for high pressure work from water pump



## Tips

### Difficult to replace a broken pump?



It is always not easy to replace a broken pump. It has to cut PVC pipe and take the pump out to repair, which is waste time and money. It is recommended using a PVC Valve Socket Union by connecting the plain side to water inflow pipe and thread side to pump. When the pump breaks down, separating plain side and thread side of "PVC Valve Socket Union", then replacing a new pump or repairing the broken pump without cut the pipe.

### Why pump broken?



Pump may be broken due to water flow reverse which causes pump malfunction. Therefore, it recommended to install "Check Valve" which is protect water flow reverse into pump

### Stop leakage at connection point of faucet



Whenever replacing faucet, it will make thread loosen or broken if using poor quality of faucet socket or screw faucet neglect. Using Brass Faucet Socket will eliminate cause of leakage at the connection point of faucet. This also use at the point which is often screwed or replaced.



Do you know? Cost of water supply system in building a house count only 1% of total cost or equal to 10,000 – 15,000 baht (about 350 – 500 USD/a house). Using poor quality of pipe and fittings may save cost 1,000 – 2,000 baht, but whenever the pipe broken or have problem, the leakage water may cost you more than 20,000 baht in order to fix wall, tile, ceiling, furniture, etc.



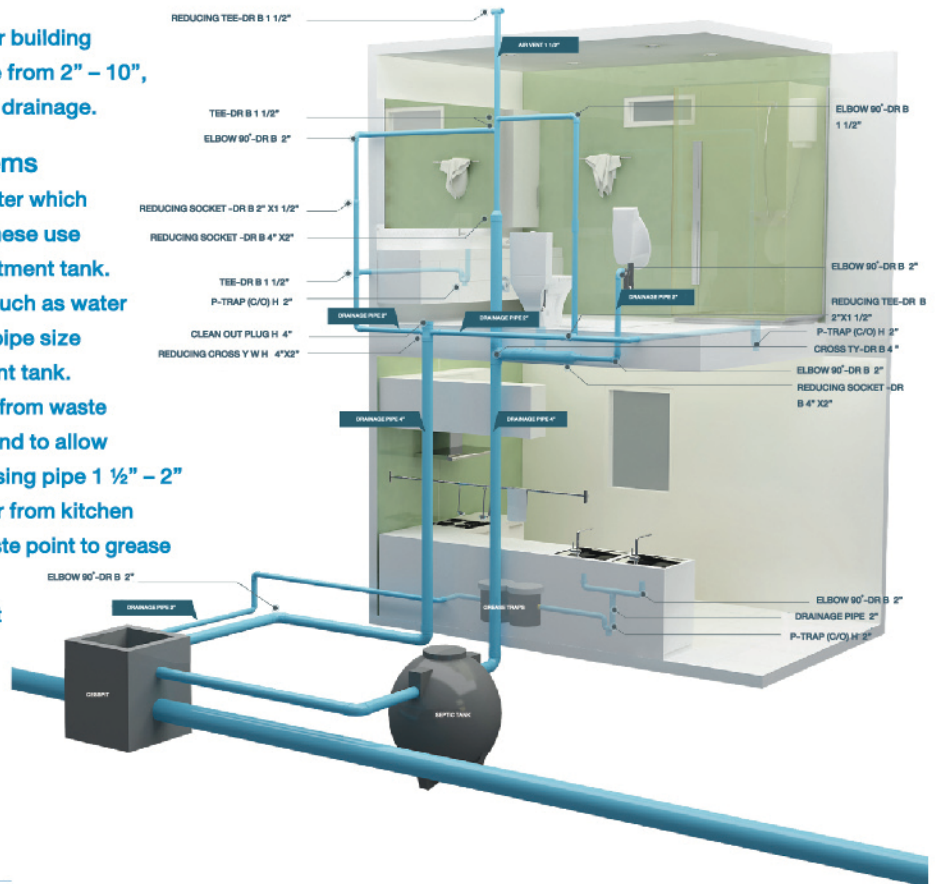
Do you know? Using cheap and low quality of PVC solvent cement will bring the long-term problem, water leakage at joint. The good quality of PVC solvent cement must be able to melt PVC pipe and fittings surface and joint together intimately. This property can be tested by brush PVC solvent cement on pipe, leave a couple minutes then using nail or sharp rigid item scrape the pipe surface. If pieces of surface come off, that means the solvent cement has good quality.

## Drainage Water System

All drainage pipe system from whole house or building to public sewage system are PVC which size from 2" – 10", having class 5 – 13.5 depend on pressure of drainage.

### Four Types of Drainage Water Systems

1. Waste Water System – no big particle in water which comes from shower drain, basin, bathtub. These use at least 2" pipe connect to waste water treatment tank.
2. Sewage Water System – having garbage such as water from urinal and flush toilet. Generally using pipe size from 2" – 4" connect to waste water treatment tank.
3. Air Vent System – release air and bad smell from waste and sewage water system to out of building and to allow pressure equalization, so drains can drain, using pipe 1 1/2" – 2"
4. Kitchen Waste Water System – waste water from kitchen sink using pipe size from 2" connect from waste point to grease filter tank before release to public sewage system to prevent clogged pipe from food's fat stick to inside pipe surface.



## Tips

### Bad smell, how to prevent?



Bad smell always come from drainage system if P-Trap and smell trap device are not installed. They hold water in the devices which prevent the smell from waste water treatment tank.

### Unclogging Drain



It is recommended to install a Clean Out which can open and clean when drainage pipe is clogged. Open the clean out and take it out or push it in by using plumbing snakes.

### Why pipe still clogged, despite having filter food waste?



A filter food waste can only separate waste, but cannot trap food fat which is one of the main reason of pipe clogged. It is important to install a grease filter tank after the kitchen sink in order to trap food fat before release to public sewage system.

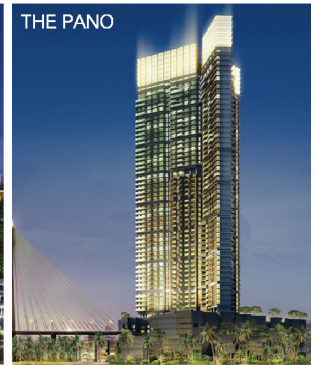
### Bad smell always come, smell trap is poor?



Despite having both P-Trap and floor drain, bad smell still come out from both devices. If you do not use bathroom or kitchen a couple days, the trap water may be dried and make the bad smell come out. Make sure your devices remain water inside.

# Reference Projects

SCG PIPE, TRUSTWORTHY PRODUCTS FOR QUALITY PROJECTS.



The products are available at building material stores nationwide.  
SCG Contact Center (662)-586-2222  
Email : [contact@scg.com](mailto:contact@scg.com), [www.scgbuildingmaterials.com](http://www.scgbuildingmaterials.com)