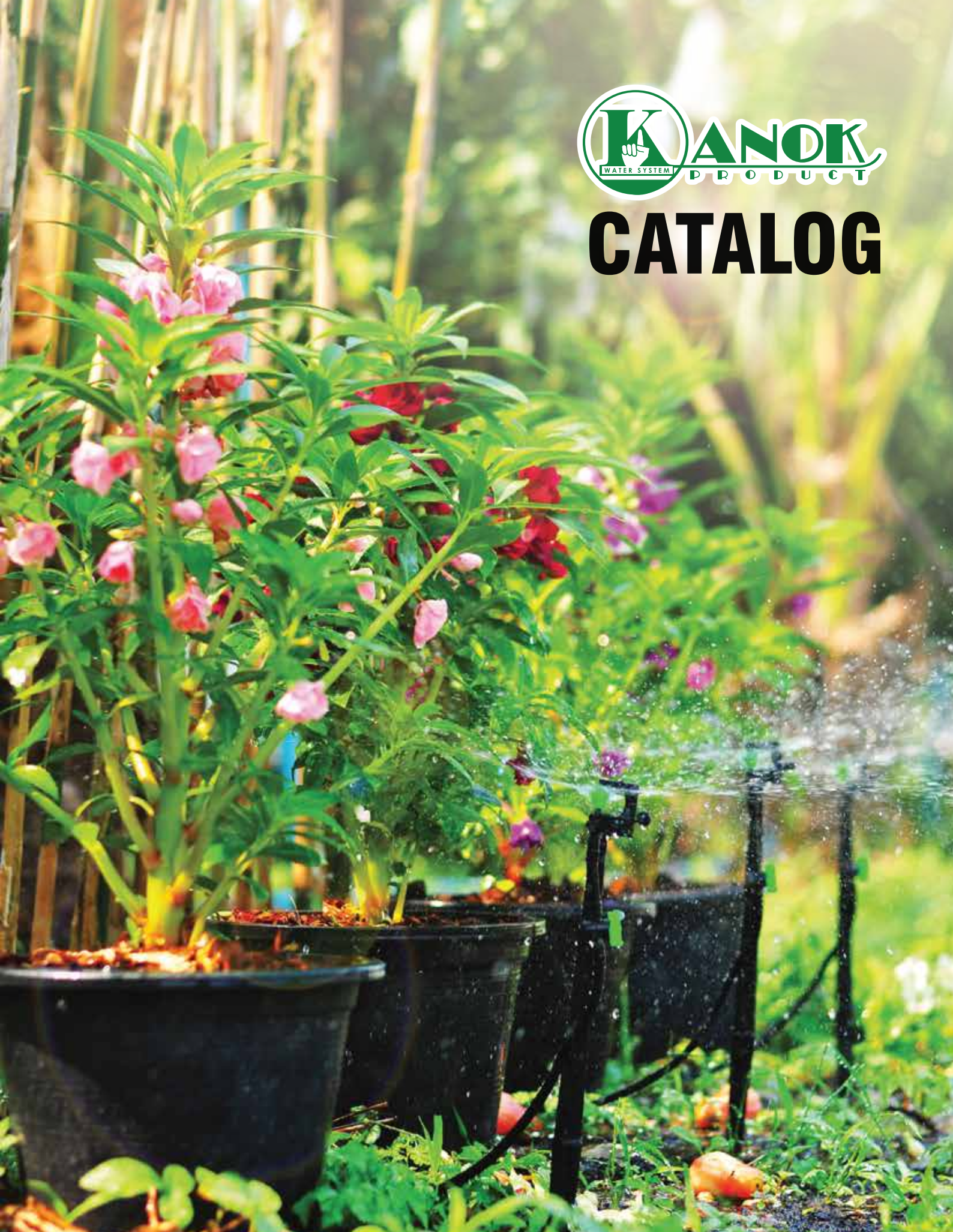




CATALOG



One-stop service for agricultural product and water supply system

www.kanokgroup.com



KANOK PRODUCT CO.,LTD.

Manufacturer and distributor of water supply accessories and irrigation system for agricultural, including Water Pump, Foot Valve, Sprinkler, Agricultural Fitting, Agricultural Valve, Water pipe, PE pipe, PVC Pipe and Fittings, Since 1997 we are producing our products under the brand name of “RED HAND”, “CHAIYO” and “CHAMP” to satisfy our customer’s needs. Our vision is a leader of “ONE STOP-SERVICE for water supply and irrigation systems”.



Our company is emphasized on producing the quality product with competitive price to help the agriculturer. Our mission is to develop the irrigation system for agricultural by focusing on the benefit of the farmer and customer’s satisfaction. We hope that our products will contribute to the stability of the farmer.

Our company are emphasized on producing the quality product and was certified ISO 9001 Version 2015 by BUREAU VERITAS, THAILAND TRUST MARK from Ministry of commerce, Green Industry and TIS Standard and TIS Standard from Ministry of industry.



Reading Guide

How to scan QR Code for more product details.

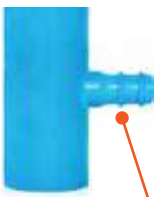


1 Select "QR Code" for more information and video

2 the QR Code you want to scan it with your camera.

How to read the table of product details and additional symbols

PVC-PE Tee Reducer



PVC 1" inch

PE 25 mm.

Number	Size (inch x mm.)	Pack Size (Sack)
58101	1"x16	300
58102	1"x20	250
58103	1"x25	250

Tag Name of Product

Quantity packed per Package e.g. 300 Pcs./Sack

The products shown in the table indicate the size from left to right by the name of the product, such as PVC-PE Tee Reducer, the PE size is on the right as 25 mm.

Additional Symbols

TIPS Useful Hint. Additional Information

Design of Packaging



Packed in "Plastic Bag"



Packed in "Carton"



Packed in "Sack"

Channels for Ordering

Customer can contact for more enquiries and ordering our product by following channel:-

Telephone :: (+66)2-451-1111

Fax :: (+66)2-416-3011

Facebook :: Kanokproduct

Line for Stores :: @kanokproduct

Line for Internet Customers :: @kanokonline

Website <https://www.kanokgroup.com>

E-mail :: Export@kanokproduct.com

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Useful Hint : Additional Information

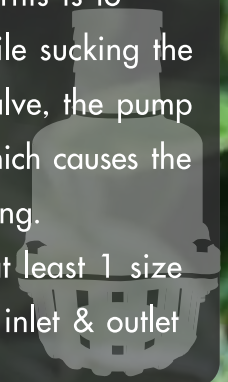
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Foot Valve

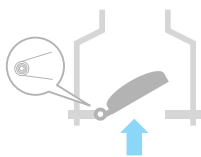
is the equipment which is installed at the end of the suction hose or pipe. This valve operates similar to Check Valve, prevents the water's drainage from the suction hose. This is to empower the pump while sucking the water. Without Foot Valve, the pump will suck only the air which causes the heat and motor's burning.

Foot Valve should be at least 1 size larger than the pump's inlet & outlet



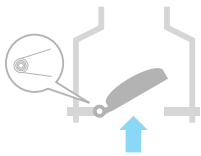
Foot Valve

Can be keep the water into the hose and remain in the pipeline between the Water Pump and Foot Valve. Do not need to fill up the water into the pump when starting.



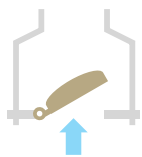
Foot Valve with Plastic Lid with Suction Hose Connector (Black)

Code Number	Size (inch)	Pack Size (box)
202	2"	24
202-L	2" (large)	24
203	3"	24
203-L	3" (large)	12
204	4"	12
204-L	4" (large)	6



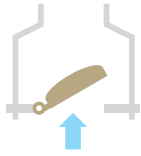
Foot Valve with Plastic Lid with Suction Hose Connector (Blue)

Code Number	Size (inch)	Pack Size (box)
242-A	2"	24
242-LA	2" (large)	12
243-LA	3" (large)	12
244-A	4"	12
244-LA	4" (large)	6



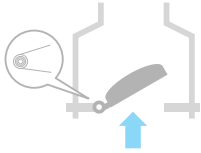
Foot Valve with Metal Lid with Suction Hose Connector (Black)

Code Number	Size (inch)	Pack Size (box)
202-S	2"	12
202-SL	2" (large)	12
203-S	3"	12
203-SL	3" (large)	6
204-S	4"	6
204-SL	4" (large)	6



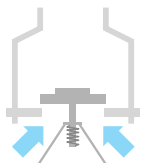
Foot Valve with Metal Lid with Suction Hose Connector (Blue)

Code Number	Size (inch)	Pack Size (box)
242-S	2"	12
242-SL	2" (large)	12
243-S	3"	12
243-SL	3" (large)	6
244-S	4"	6
244-SL	4" (large)	6



Foot Valve with Plastic Lid with Suction Hose Connector-No Nuts (Black)

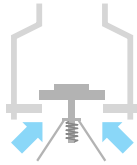
Code Number	Size (inch)	Pack Size (box)
201-65	2 1/2"	24
201-75	3"	24



Foot Valve with Plastic Lid with Suction Hose Connector

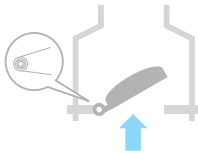
Code Number	Size (inch)	Color	Pack Size (box)
233-50D	2"	black	24
233-50C	2"	blue	24





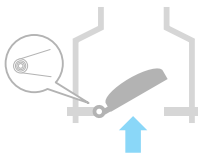
Foot Valve with Plastic Lid PVC pipe and Fitting (Blue)

Code Number	Connecting Size (inch)		Pack Size (box)
	connect to pipe	connect to fitting	
233-25	3/4"	1"	80
233-25A	1"	N/A	80
233-40	N/A	1 1/2"	30
233-40A	1 1/2"	N/A	30
233-50	1 1/2"	2"	24
233-50A	2"	N/A	24



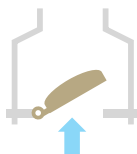
Foot Valve with Plastic Lid PVC pipe and Fitting

Code Number	Connecting Size (inch)		Pack Size (box)
	connect to pipe	connect to fitting	
234-L	1 1/2"	2"	24
235	2 1/2"	3"	12
236-L	N/A	4"	6



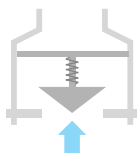
Foot Valve with Plastic Lid PVC pipe and Fitting

Code Number	Connecting Size (inch)		Pack Size (box)
	connect to pipe	connect to fitting	
234-65	2"	2 1/2"	24



Foot Valve with Metal Lid PVC pipe and Fitting

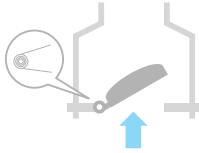
Code Number	Connecting Size (inch)		Pack Size (box)
	connect to pipe	connect to fitting	
235-S	2 1/2"	3"	12
236-S	N/A	4"	6



Foot Valve with Plastic Lid PVC pipe and Fitting

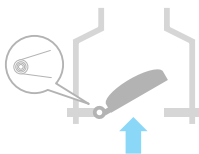
Code Number	Connecting Size (inch)		Remark	Pack Size (box)
	connect to pipe	connect to fitting		
232	3/4"	1"	Into Deep Well	100
236	1 1/2"	2"	Into Deep Well	5

Foot Valve with Plastic Lid Female Thread (Black)



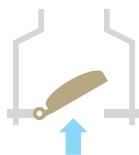
Code Number	Size (inch)	Pack Size (box)
212	2"	24
212-L	2" (large)	24
212-B	2" (large hose)	12
212-50	2 1/2"	24
213	3"	24
213-L	3" (large)	12
213-B	3" (large hose)	6
214	4"	12
214-L	4"	6

Foot Valve with Plastic Lid Female Thread (Blue)



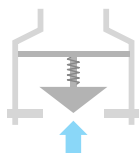
Code Number	Size (inch)	Pack Size (box)
212-LA	2"	24
212-50A	2 1/2"	24
213-LA	3"	12
214-A	4"	12
214-LA	4"	6

Foot Valve with Metal Lid Female Thread (Black)



Code Number	Size (inch)	Pack Size (box)
212-S	2"	12
212-SL	2" (large)	12
212-SB	2" (large hose)	6
212-50S	2 1/2"	12
213-S	3"	12
213-SL	3" (large)	6
213-SLB	3" (large hose)	6
214-S	4"	6
214-SL	4"	6

Foot Valve with Plastic Lid Female Thread (blue)

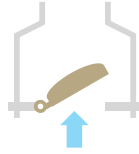


Code Number	Size (inch)	Remark	Pack Size (box)
231-25	1"	Into Deep Well	5
231-50	2"	Into Deep Well	24

231-25

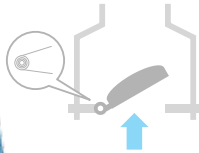
231-50





Foot Valve with Metal Lid Female Thread (Blue)

Code Number	Size (inch)	Pack Size (box)
242	2"	12
242-50	2 1/2"	12
243	3"	6
244	4"	6
244-L	4"	6



Foot Valve Italy Design with Plastic Lid Female Thread (Blue)

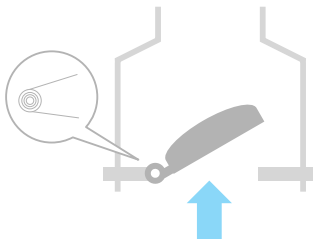
Code Number	Size (inch)	Pack Size (box)
200-65	2 1/2"	5
200-75	3"	4
200-100	4"	4



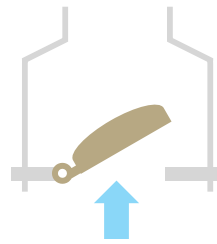
TIPS

Sample of each Valve types of Foot Valve.

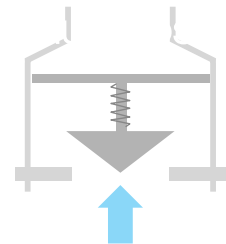
Valve Spring



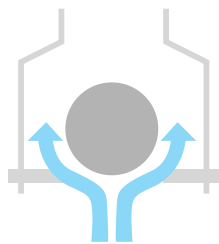
Valve Metal



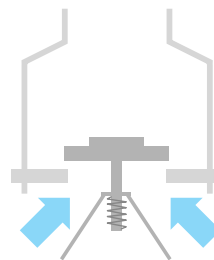
Tapered Valve Spring



Ball Valve



Nam Thai Valve



Valve Metal's Advantages

High water pressure resistance.

Product with a long life.



Valve Spring's Advantages

Available in both Vertical and horizontal application.

When used with suction line, it will not sink under the water and does not suck mud up from water resource.



The 6th Holder

Use for hanging a buoy or float to make the foot valve float up from the water and makes the foot valve not suck mud bottom the water resource.



Strainer

is the water filter. It detects the dust or small particle. for preventing the blockages at the irrigation systems. Filter is removable for cleaning. Strainer/Filter must be installed both in front of the water pump and behind.



Strainer Male Thread

Code Number	Size (inch)	Filter (type)	Water Volume (M ³ /hour)	Pack Size (box)
454-1	2"	screen	25	10
454-2	2"	disc	25	10



454-3



454-4

Strainer Filter

Code Number	Size (inch)	Filter (type)	Pack Size (bag)
454-3	2"	screen	1
454-4	2"	disc	1



Strainer Male Thread

Code Number	Size (inch)	Filter (type)	Water Volume (M ³ /hour)	Pack Size (box)
454-5	3/4"	screen	5	1
454-6	3/4"	disc	5	1
454-7	1"	screen	6	1
454-8	1"	disc	6	1
454-9	1 1/2"	screen	20	1
454-10	1 1/2"	disc	20	1



screen



disc

Strainer Filter

Code Number	Size (inch)	Filter (type)	Pack Size (bag)
454-5N	3/4"	screen	1
454-6N	3/4"	disc	1
454-7N	1"	screen	1
454-8N	1"	disc	1
454-9N	1 1/2"	screen	1
454-10N	1 1/2"	disc	1



454-1T



454-11T

Strainer Male Thread - Special Length

Code Number	Size (inch)	Filter (type)	Water Volume (M ³ /hour)	Pack Size (box)
454-1T	2"	screen	30	1
454-2T	2"	disc	30	1
454-11T	3"	screen	50	1
454-12T	3"	disc	50	1



screen



disc

Strainer's cartridges- special long

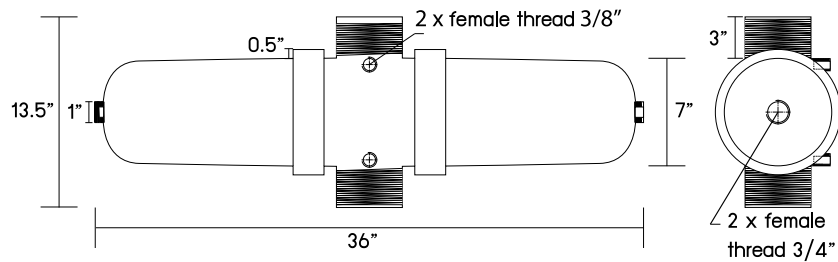
Code Number	Size (inch)	Filter (type)	Pack Size (bag)
454-1TN	2"	screen	1
454-2TN	2"	disc	1
454-11TN	3"	screen	1
454-12TN	3"	disc	1





Strainer Male Thread with Valve

Code Number	Size (inch)	Filter (type)	Water Volume (M ³ /hour)	Pack Size (box)
455-1	4"	screen	100	1
455-2	4"	disc	100	1



TIPS

Strainer (Filter)

Available for two types of Strainer (Filters):-

1. Screen Filter : Resolution of Screen Filter : 80 Mesh or 177 Microns (Holes Per Inch : 80 Holes).
2. Disc Filter : Resolution of Disc Filter : 120 Mesh or 125 Microns (Holes Per Inch : 120 Holes).



1. Screen Filter



2. Disc Filter



Strainer Screen Filter Female Thread

Code Number	Size (inch)	Filter (type)	Pack Size (bag)
450	3/4"	screen	1
451	1"	screen	1
452	2"	screen	1
453	1 1/2"	screen	1



Strainer Screen Filter PVC Connector

Code Number	Connecting Size (inch) connect to pipe	Size (inch) connect to fitting	Filter (type)	Pack Size (bag)
454-PVC1N	3/4"	1"	screen	1
454-PVC1T	3/4"	1"	disc	1
454-PVC2N	1"	N/A	screen	1
454-PVC2T	1"	N/A	disc	1

Pressure Gauge (Oil) 2.5"



Code Number	Size (inch)	Pack Size (box)
660-OIL	1/4"	1

Pressure Gauge (Air) 2.5"

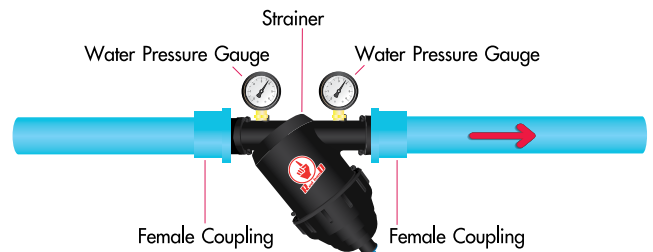


Code Number	Size (inch)	Pack Size (box)
660	1/4"	1



TIPS

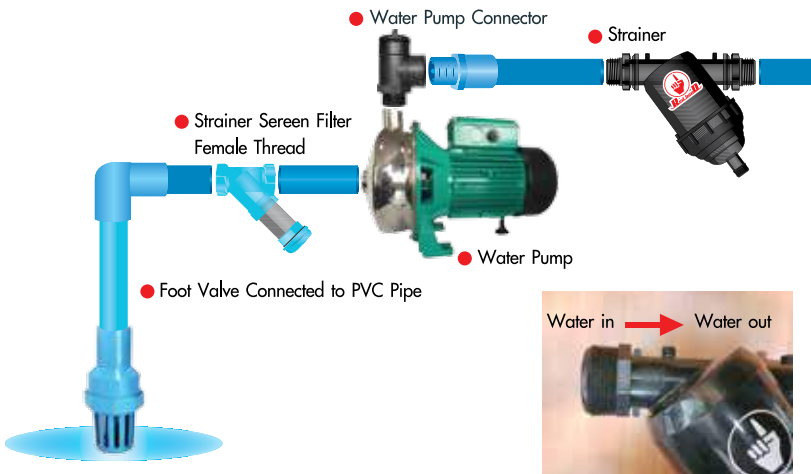
How to install Pressure Gauge



TIPS

How to install Strainer

1. Coarse Strainer : Installed before the water pump. To prevent sandstone or rubbish into the pump and pump damaged.
2. Fine Strainer : Installed after water pump. Used to prevent clogging in the section of water dispenser.
3. Strainer will have arrow indicating. Water will flow through by following the arrow.



Check Valve

Check Valve is used to prevent back flow where might back flow in water system and damage equipment e.g. Water Pump Water, Pipe and Foot Valve.



Check Valve Socket PVC with Plastic Lid

Code Number	Size (inch)	Pack Size (box)
233-20B	3/4"	100
233-25B	1"	80
233-40B	1 1/2"	30
233-50B	2"	24



Check Valve Socket PVC with Metal Lid

Code Number	Connecting Size (inch)		Pack Size (box)
	connect to pipe	connect to fitting	
234-SW	1 1/2"	2"	6
235-SW	2 1/2"	3"	6
236-SW	4"	N/A	6



Check Valve Socket PVC with Plastic Lid

Code Number	Connecting Size (inch)		Pack Size (box)
	connect to pipe	connect to fitting	
234-CW	1 1/2"	2"	6
235-CW	2 1/2"	3"	6



Check Valve Female Thread with Metal Lid (Blue)

Code Number	Size (inch)	Pack Size (box)
225	2"	12
226	2 1/2"	12
227	3"	6
228	4"	6
228-L	4" (large)	6



Check Valve Female Thread with Plastic Lid

Code Number	Size (inch)	Pack Size (box)
222	2"	12
222-5	2 1/2"	12
223-L	3" (large)	6
224	4"	6



Check Valve Female Thread with Plastic Lid (Blue)

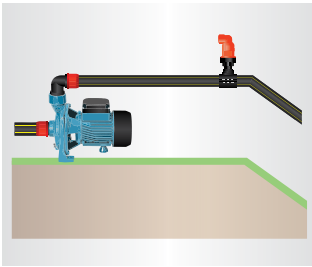
Code Number	Size (inch)	Pack Size (box)
241-25	1"	100
241-50	2"	100



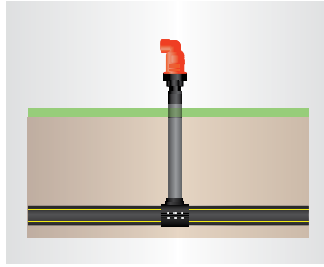
Air Valve

Moved the air from the pipe and prevents the collapse of the pipe when the vacuum occurred in case of the water flows down vacuum occurred in the pipe while stopping the water.

Installed on slope area/
different level area



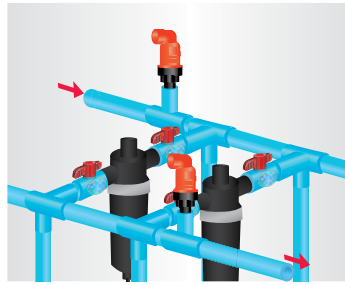
Installed from an underground pipe



Installed on Clamp Saddle



Installed in conjunction with
water filtration system



TIPS

How to install Air Valve

Air Valve help in ventilating into the pipes. if has the air cavity occurred, will blockage the flow of water. Reduce flow and lose pressure in the pipe line. The air cavity occurred is usually appeared at the Elbow 90 degree or high position of the pipe line. Installation of air Valve should be installed at high locations for all dispensing water are, especially at the mountain area.



2-AIRV-2



2-AIRV-3



2-AIRV-4



2-AIRV-5

Air Valve

code	size	Max Working Pressure (PSI)	Sealing Pressure (PSI)	Air Outtake Flow (m ³ /h)	Air Outtake Flow (m ³ /h)	contain (bag)
2-AIRV-2	3/4"	150	5	0-50m ³ /h @0-5psi	67-0m ³ /h @5-0psi	1
2-AIRV-3	1"	150	5	0-280m ³ /h @0-5psi	280-0m ³ /h @5-0psi	1
2-AIRV-4	1 1/2"	225	5	0-330m ³ /h @0-5psi	330-0m ³ /h @5-0psi	1
2-AIRV-5	2"	225	5	0-235m ³ /h @0-5psi	235-0m ³ /h @5-0psi	1

Venturi

Used for fertilizing into agricultural water system. The fertilizer is sucked into the water system and feed plants with water on the roots. It helps save time and plants get fertilized thoroughly.



Venturi Male Thread-Full Set

code	size (inch)	contain (bag)
390-1	1/2"	1
390-2	3/4"	1
390-3	1"	1
390-4	1 1/2"	1



Venturi Male Thread-Full Set

code	size (inch)	contain (bag)
390-5	2"	1

Technical Data

Item No.	Size	At 0.8 bar		At 1.0 bar		At 1.5 bar		At 2.0 bar		At 2.5 bar		At 3.0 bar		At 3.5 bar		At 4.0 bar	
		Outlet Flow (L/h)	Injection Rate (L/h)	Outlet Flow (L/h)	Injection Rate (L/h)	Outlet Flow (L/h)	Injection Rate (L/h)	Outlet Flow (L/h)	Injection Rate (L/h)	Outlet Flow (L/h)	Injection Rate (L/h)	Outlet Flow (L/h)	Injection Rate (L/h)	Outlet Flow (L/h)	Injection Rate (L/h)	Outlet Flow (L/h)	Injection Rate (L/h)
390-1	1/2"	280	63	305	70	353	74	389	74	420	71	448	71	447	72	501	72
390-2	3/4"	880	97	961	107	1098	114	1192	113	1292	113	1372	113	1462	113	1537	113
390-3	1"	1758	158	2112	244	2578	265	3043	357	3290	356	3691	352	3933	349	4203	351
390-4	1 1/2"	3540	544	4140	613	4980	787	5880	786	6480	785	6720	779	7704	778	8100	781
390-5	2"	Working Pressure 0.7 - 9.5 bar						Outlet Flow 11580 - 20000 L/H				Inject Flow 110 - 1200 L/H					

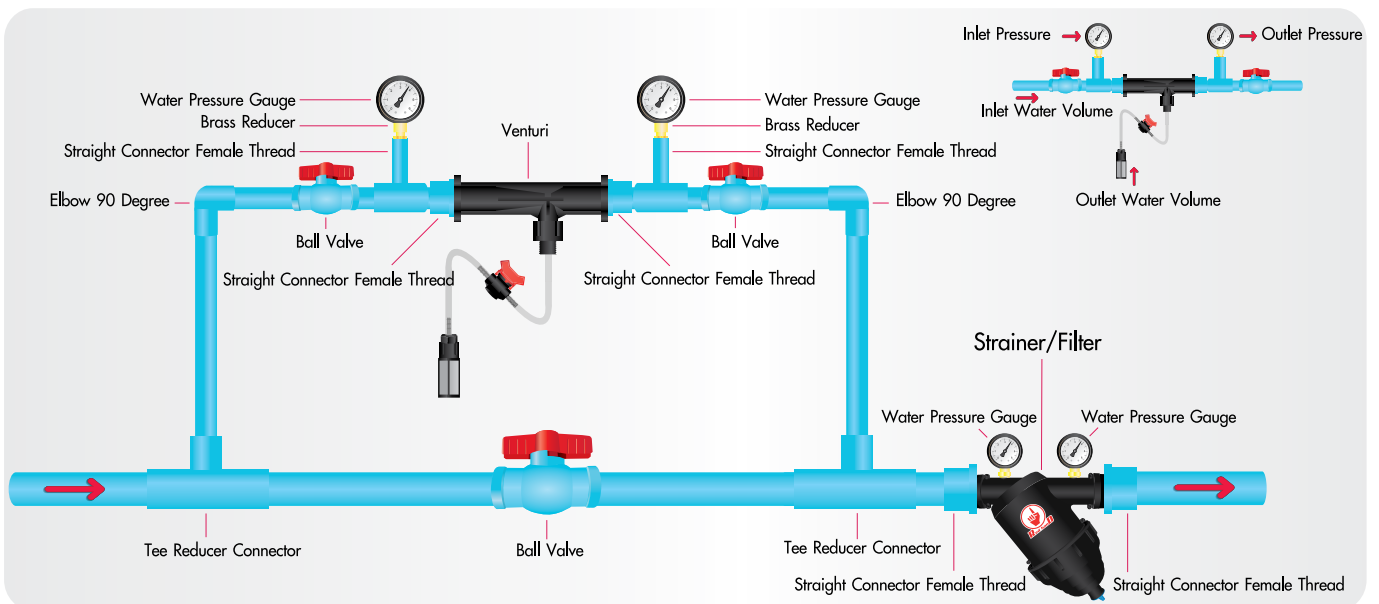




TIPS

How to install Venturi

Venturi's installation on Bypass Pipe is recommended by the reason of the water's volume or sucking directly from the main pipe. All sizes are Male Threads, both inlets and outlets, which are easily adjustable with hoses. The selection of Venturi should be suit with the type of plants and water delivery area.





PIPE

Water is an important factor in crop cultivation. This is an important factor of the plant growth both in the quality and quantity of output. Some areas have limited of water and insufficient water. Drip Irrigation System is an important role in water management and save of water usage. Water Pipe is an important in transporting and throughout the plots. There are many types of Water Pipe depending on the area and the water requirements of plants.

LDPE PIPE

Used as a pipe in agriculture work, water drip system, nozzle spray or termites insecticide chemical system. Resistant to the environment. Suitable for low pressure work.

Features :-

1. Not fragile and no break easily
2. Long lifetime and UV protection coating on surface
3. Smooth surface, light weight and well bend bendable
4. Manufactured in accordance with international Standards DIN 8072/73



Size mm. (inch)	Length (meter)	PN 3.2 (White Strip)	
		Code Number	
16 (3/8")	20	398-16-2(PN3.2)	
	100	398-16-1(PN3.2)	
	200	398-16(PN3.2)	
20 (1/2")	20	398-20-2(PN3.2)	
	100	398-20-1(PN3.2)	
	200	398-20(PN3.2)	
25 (3/4")	20	398-25-2(PN3.2)	
	100	398-25-1(PN3.2)	
	200	398-25(PN3.2)	
32 (1")	100	398-32-1(PN3.2)	
	200	398-32(PN3.2)	

HDPE PIPE

Used in water system transmission of high pressure works e.g. main water pipes of the water system or other electrical wiring.

Features :-

1. Not fragile and no break easily
2. Long lifetime and UV protection coating on surface
3. Smooth surface, light weight and well bend
4. Manufactured in accordance with international Standards DIN 8072/73



Size mm. (inch)	Length (meter)	PN 4 (Orange Strip)	PN 6.3 (Orange Strip)
		Code Number	Code Number
16 (3/8")	100	398-16-1(PN4)	-
	200	398-16(PN4)	-
20 (1/2")	100	398-20-1(PN4)	-
	200	398-20(PN4)	-
25 (3/4")	100	398-25-1(PN4)	-
	200	398-25(PN4)	-
32 (1")	100	398-32(PN4)	398-32(PN6.3)
40 (1 1/4")	100	398-40(PN4)	398-40(PN6.3)
50 (1 1/2")	100	398-50(PN4)	398-50(PN6.3)
63 (2")	50	398-63(PN4)	398-63(PN6.3)
75 (2 1/2")	50	-	398-75(PN6.3)
90 (3")	50	-	398-90(PN6.3)
110 (4")	50	-	398-110(PN6.3)



Lay-Flat Hose

Used to transmit the water from the water source to the farm and field for drainage flood. Suitable for agricultural work, construction work and irrigation work.

Features : light weight, easily to fold and durable.



PE Lay-Flat Hose (Black)

Code Number	Size (inch)	Length (meter)	Pack Size (box)
6-034B	3/4"	100	1
6-010B	1"	100	1
6-012B	1 1/2"	100	1
6-020B	2"	100	1



PE Lay-Flat Hose (White)

Code Number	Size (inch)	Length (meter)	Pack Size (box)
6-034S	3/4"	100	1
6-010S	1"	100	1
6-012S	1 1/2"	100	1
6-020S	2"	100	1
6-030S	3"	100	1
6-040S	4"	100	1



Lay - Flat Hose (2 Bar)

Code Number	Size (inch)	Length (meter)	Pack Size (box)
6-015L	1 1/2"	100	2
6-020L	2"	100	5
6-025L	2 1/2"	100	4
6-030L	3"	100	3
6-040L	4"	100	2
6-060L	6"	100	1



WP : 2 Bars
odor-less



WP : 4 Bars
odor-less

PVC Lay-Flat Hose (2 Bars)

Code Number	Size (inch)	Length (meter)	Pack Size (roll)
6-PVC01 1/2-2CP	1 1/2"	100	1
6-PVC02-2CP	2"	100	1
6-PVC02 1/2-2CP	2 1/2"	100	1
6-PVC03-2CP	3"	100	1
6-PVC04-2CP	4"	100	1
6-PVC05-2CP	5"	100	1
6-PVC06-2CP	6"	100	1
6-PVC08-2CP	8"	100	1

Lay-Flat Hose (4 Bars)

Code Number	Size (inch)	Length (meter)	Pack Size (roll)
6-PVC01-1/2-4CH	1 1/2"	100	1
6-PVC02-4CH	2"	100	1
6-PVC02-1/2-4CH	2 1/2"	100	1
6-PVC03-4CH	3"	100	1
6-PVC04-4CH	4"	100	1
6-PVC05-4CH	5"	100	1
6-PVC06-4CH	6"	100	1
6-PVC08-4CH	8"	100	1



WP : 2 Bars



WP : 4 Bars

PVC Lay-Flat Hose (2 Bars)

Code Number	Size (inch)	Length (meter)	Pack Size (roll)
6-PVC01 1/2-2CP(B)	1 1/2"	100	1
6-PVC02-2CP(B)	2"	100	1
6-PVC02 1/2-2CP(B)	2 1/2"	100	1
6-PVC03-2CP(B)	3"	100	1
6-PVC04-2CP(B)	4"	100	1
6-PVC05-2CP(B)	5"	100	1
6-PVC06-2CP(B)	6"	100	1
6-PVC08-2CP(B)	8"	100	1

PVC Lay-Flat Hose (4 Bars)

Code Number	Size (inch)	Length (meter)	Pack Size (roll)
6-PVC01-1/2-4CH(B)	1 1/2"	100	1
6-PVC02-4CH(B)	2"	100	1
6-PVC02-1/2-4CH(B)	2 1/2"	100	1
6-PVC03-4CH(B)	3"	100	1
6-PVC04-4CH(B)	4"	100	1
6-PVC05-4CH(B)	5"	100	1
6-PVC06-4CH(B)	6"	100	1





Hole Punch for Lay Flat Hose

Code Number	Size (mm)	Pack Size (bag)
350-199	16-20	100



Lay Flat Hose Connector Female Thread

Code Number	Size (inch)	Pack Size (bag)
350-140C	1/2"-3/4"	100



Punching for Lay - Flat Hose

Code Number	Size (mm.)	Pack Size (box)
399-LF	16	1



Lay - Flat Connector-Drip Tape

Code Number	Type	Size (mm)	pack Size (bag)
350-141C	Flat	16.5	100



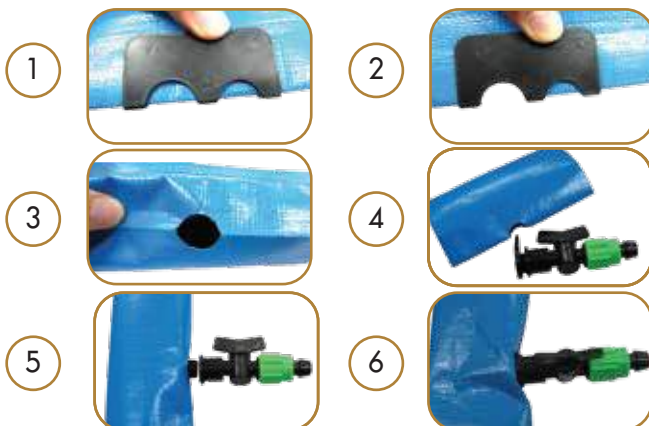
Drip Tape Valve - Lay flat

Code Number	Size (mm)	Pack Size (bag)
387-141C	16.5	100



Sprayer Tape Valve - Lay flat

Code Number	Size (mm x inch)	Pack Size (bag)
388-88	35x1/2"	100
388-89	43x3/4"	100



 TIPS

How to use Hole Punch for Lay Flat Hose

1. Fold the Hole Punch for Lay Flat Hose attached to the Lay Flat Hose or transmission line.
2. Cut groove by using sharp cutter

Hose

In accordance with production standard, transparent, soft tubing and good quality.



PVC Flexible Hose (Blue)

Code Number	Size (inch)	Weight (kg)	Length (meter)	Pack Size (roll)
6-212B	1/2"	12	100	1
6-258B	5/8"	17	100	1
6-234B	3/4"	24	100	1
6-201B	1"	22	50	1
6-201B-1	1"	44	100	1



PVC Water Hose (Transparent)

Code Number	Size (inch)	Weight (kg)	Length (meter)	Pack Size (roll)
6-212S	1/2"	12	100	1
6-258S	5/8"	15	100	1
6-234S	3/4"	20	100	1
6-201S	1"	12.5	50	1
6-201S-1	1"	25	100	1



Suction Hose

The Suction Hose is smooth surface and hose wall is strong. Resistant to the suction pressure of the pump. Use to connect the pond. Suction Hose is flexible, can be bent easily, light weight and easy to move. Can be used with Foot Valve.



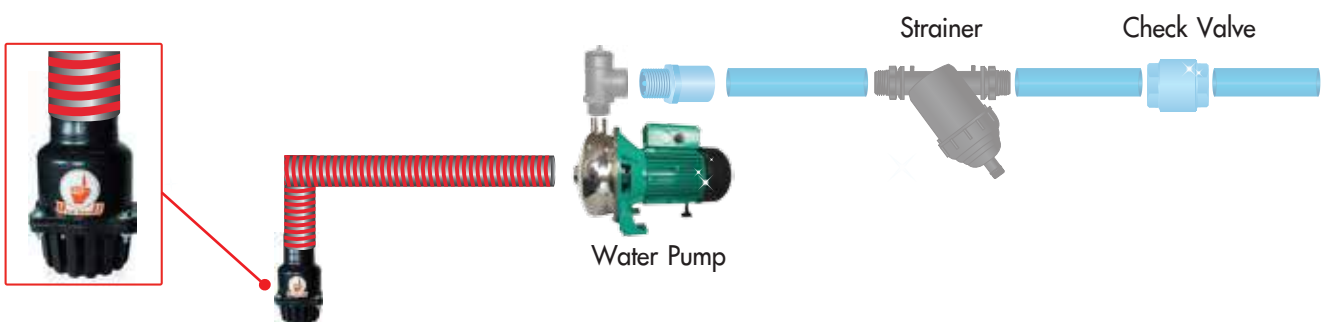
PVC Suction Hose Chaiyo (Red)

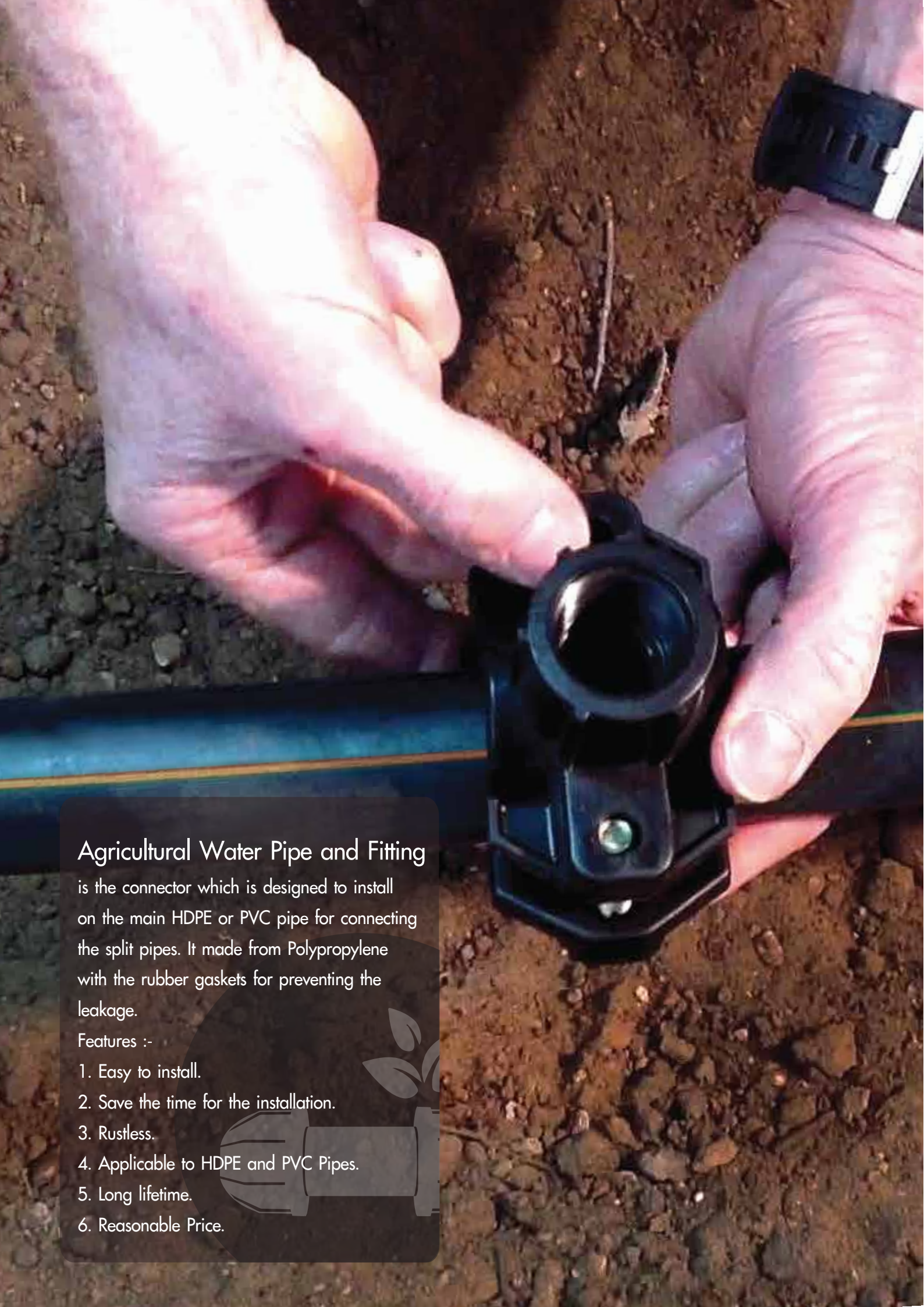
Code Number	Size (inch)	Length (meter)	Pack Size (roll)
6-125(12M)	1"	12	1
6-125(24M)	1"	24	1
6-130(12M)	1 1/4"	12	1
6-130(24M)	1 1/4"	24	1
6-140(12M)	1 1/2"	12	1
6-140(24M)	1 1/2"	24	1
6-150(8M)	2"	8	1
6-150(12M)	2"	12	1
6-150(24M)	2"	24	1
6-165(12M)	2 1/2"	12	1
6-165(24M)	2 1/2"	24	1
6-175(8M)	3"	8	1
6-175(12M)	3"	12	1
6-175(24M)	3"	24	1
6-200(8M)	4"	8	1
6-200(12M)	4"	12	1



TIPS

How to install Suction Hose



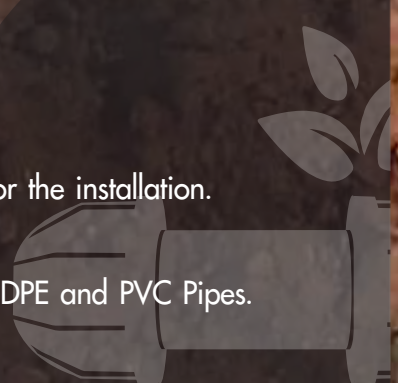


Agricultural Water Pipe and Fitting

is the connector which is designed to install on the main HDPE or PVC pipe for connecting the split pipes. It made from Polypropylene with the rubber gaskets for preventing the leakage.

Features :-

1. Easy to install.
2. Save the time for the installation.
3. Rustless.
4. Applicable to HDPE and PVC Pipes.
5. Long lifetime.
6. Reasonable Price.



PE Connector

is used with PE Pipe (white strip) sizes 16-32 mm. and suitable for agricultural applications and piping works. It should be used with PE Pipe clip more strength.

PE Straight Connector



Code Number	Size (mm.x mm.)	Pack Size (bag)
350-10	16x16	100
350-11	20x20	100
350-12	25x25	100
350-13	32x32	100
350-14	20x16	100
350-15	25x20	100
350-16	32x20	100
350-17	32x25	100

PE Straight Connector Male Thread



Code Number	Size (inch x mm.)	Pack Size (bag)
350-20	1/2"x16	100
350-21	3/4"x16	100
350-22	1/2"x20	100
350-23	3/4"x20	100
350-24	1/2"x25	100
350-25	3/4"x25	100
350-26	1"x32	100

PE Elbow Connector



Code Number	Size (mm)	Pack Size (bag)
350-30	16	100
350-31	20	100
350-32	25	100
350-33	32	50

PE End Plug



Code Number	Size (mm)	Pack Size (bag)
396-16	16	100
396-20	20	100
396-25	25	100

PE Elbow Male Thread



Code Number	Size (inch x mm)	Pack Size (bag)
350-40	1/2"x16	100
350-41	1/2"x20	100
350-42	1/2"x25	100
350-43	3/4"x16	100
350-44	3/4"x20	100
350-45	3/4"x25	100
350-46	1"x32	50

PE Tee Connector



Code Number	Size (mm x mm x mm)	Pack Size (bag)
350-50	16x16x16	100
350-51	20x20x20	100
350-52	25x25x25	100
350-53	20x16x20	100
350-54	25x16x25	100
350-55	25x20x25	100
350-56	32x20x32	50
350-57	32x25x32	50
350-58	32x32x32	50

PE Tee Connector Male Thread



Code Number	Size (mm x inch x mm)	Pack Size (bag)
350-60	16x1/2"x16	100
350-61	20x1/2"x20	100
350-62	25x1/2"x25	100
350-63	16x3/4"x16	100
350-64	20x3/4"x20	100
350-65	25x3/4"x25	50
350-66	32x1"x32	50

PE 4 Ways Connector



Code Number	Size (mm)	Pack Size (bag)
350-00	20	100
350-01	25	100
350-02	32	50

PE 4 Ways Reducer Connector



Code Number	Size (mm x mm)	Pack Size (bag)
350-03	20x16	100
350-04	25x16	100
350-05	25x20	100
350-06	32x16	50
350-07	32x20	50
350-08	32x25	50

PE 7 Ways Connector



Code Number	Size (inch x mm)	Pack Size (bag)
350-120	3/4"x16	100
350-121	3/4"x20	100
350-122	1"x16	100
350-123	1"x20	100



PE End Hose Clip



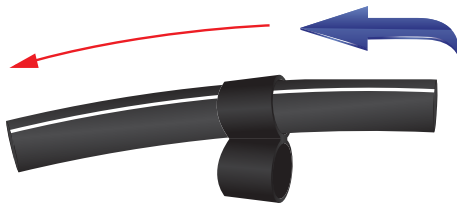
Code Number	Size (mm)	Pack Size (bag)
379-16P	16	100
379-20P	20	100
379-25P	25	100

PE Pipe Clip



Code Number	Size (mm)	Pack Size (bag)
379-16	16	100
379-20	20	100
379-25	25	100

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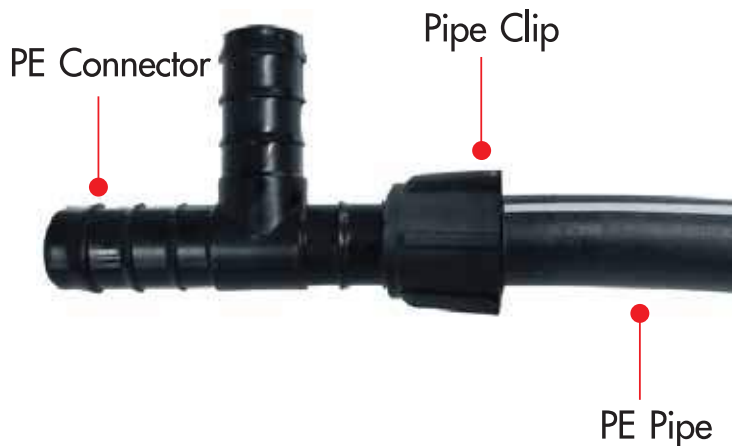
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TIPS

How to use End Hose Clip

1. Insert the end of PE Pipe into a hole of the clip.
2. Fold the end of pipe and insert into another hole of the clip.



TIPS

How to use Pipe Clip

1. Insert the end of PE Pipe into the clip before install the PE Connector.
2. Insert the pipe to the connector, then swipe the clip to the connector tightly.
3. The narrow side of the clip is facing to the connector.

PVC-PE Pipe Connector

is suitable for converting PVC Pipe to PE Pipe, e.g. to connect the split PE Pipes from PVC main pipe. This connector saves the cost and time of piping.

Straight Connector Socket PVC Pipe-PE



Code Number	Size (inch x mm)	Pack Size (bag)
350-90	1/2"x16	100
350-91	1/2"x20	100
350-911	1/2"x25	100
350-92	3/4"x16	100
350-93	3/4"x20	100
350-94	3/4"x25	100

Straight Connector Socket PVC Fitting-PE



Code Number	Size (inch x mm)	Pack Size (bag)
350-95	1/2"x16	100
350-96	1/2"x20	100
350-969	1/2"x25	100
350-97	3/4"x16	100
350-98	3/4"x20	100
350-99	3/4"x25	100
350-991	1"x16	100
350-992	1"x20	100
350-993	1"x25	100
350-994	1"x32	50

PVC-PE Straight Connector



Code Number	PVC Size (inch)	PE Size (mm)	Pack Size (bag)
350-957	connect to fitting 1/2"	16,20,25	100
350-959	connect to pipe 1/2" (connect to fitting 3/4")	16,20,25	100



Elbow Connector Socket PVC Pipe + PE (PVC Fitting 3/4")

Tee Connector Socket PVC Pipe + PE (PVC Fitting 3/4")



Code Number	Size (inch x mm)	Pack Size (bag)
350-70	1/2"x20	100
350-71	1/2"x25	100
350-72	3/4"x20	100
350-73	3/4"x25	100
350-74	1"x32	50

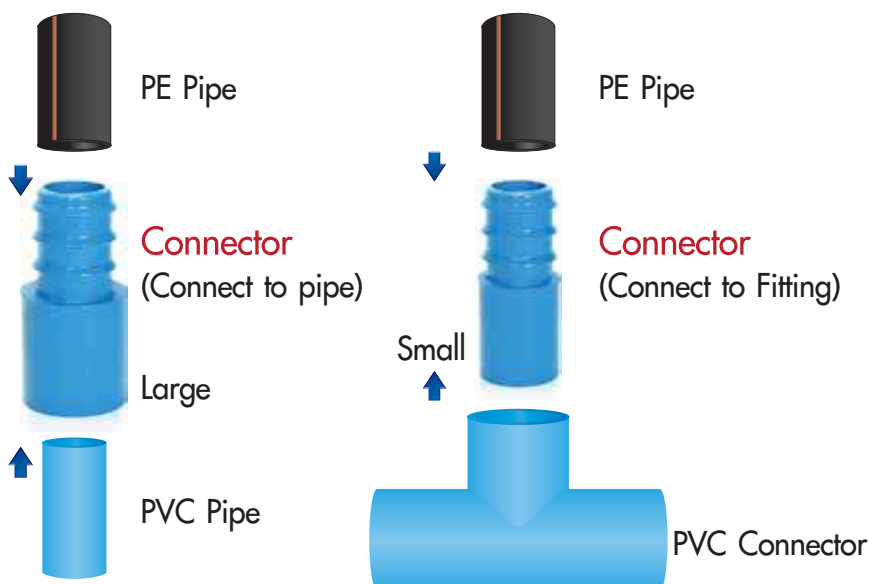


Code Number	Size (inch x mm)	Pack Size (bag)
350-80	1/2"x20	100
350-81	1/2"x25	100
350-82	3/4"x20	100
350-83	3/4"x25	100
350-84	1"x20	100
385-85	1"x25	100
350-86	1"x32	50



TIPS

Connector to pipe size 1/2" is applicable to connector to fitting size 3/4"



TIPS

How different between Connect to Pipe vs Connect to Fitting?

PE Compression Fitting

is used with large PE Pipe, size 20-110 mm. and suitable for projects using high pressure pump 4-20 bars. It made of special grade fiber, high pressure resistant and only used with PE Pipe Chaiyo (Orange strip).

Coupling



Code Number	Size (mm)	Pack Size (box)
353-40	20	300
353-41	25	250
353-42	32	150
353-43	50	70
353-44	63	20
353-45	40	80
353-46	75	1
353-47	90	1
353-48	110	1

Reducing Coupling



Code Number	Size (mm x mm)	Pack Size (box)
353-50	25x20	300
353-51	32x25	150
353-52	40x32	60
353-53	50x40	70
353-54	63x50	20
353-55	75x63	1
353-58	90x63	1
353-56	90x75	1
353-57	110x90	1

Male Adapter



Code Number	Size (mm x inch)	Pack Size (box)
353-10	20x1/2"	300
353-11	25x3/4"	250
353-12	32x1"	150
353-13	40x1 1/2"	60
353-14	50x1 1/2"	60
353-15	50x2"	60
353-16	63x2"	20
353-17	75x2 1/2"	1
353-18	90x3"	1
353-19	110x4"	11

Female Adapter



Code Number	Size (mm x inch)	Pack Size (box)
353-20	20x1/2"	300
353-21	25x3/4"	250
353-22	32x1"	150
353-23	40x1 1/2"	60
353-24	50x1 1/2"	60
353-25	50x2"	60
353-26	63x2"	20
353-27	75x2 1/2"	1
353-28	90x3"	1
353-29	110x4"	1



90° Female Elbow



Code Number	Size (mm x inch)	Pack Size (box)
355-30	20x1/2"	300
355-31	25x3/4"	250
355-32	32x1"	140
355-33	40x1 1/2"	55
355-34	50x1 1/2"	35
355-35	50x2"	35
355-36	63x2"	15
355-37	75x2 1/2"	1
355-38	90x3"	1
355-39	110x4"	1

90° Male Elbow



Code Number	Size (mm x inch)	Pack Size (box)
355-20	20x1/2"	300
355-21	25x3/4"	250
355-22	32x1"	140
355-23	40x1 1/2"	55
355-24	50x1 1/2"	35
355-25	50x2"	35
355-26	63x2"	15
355-27	75x2 1/2"	1
355-28	90x3"	1
355-29	110x4"	1

90° Elbow



Code Number	Size (mm)	Pack Size (box)
355-10	20	300
355-11	25	250
355-12	32	140
355-13	40	55
355-14	50	35
355-15	63	15
355-16	75	1
355-17	90	1
355-18	110	1

90° Female Brass Elbow



Code Number	Size (mm x inch)	Pack Size (box)
355-40	20x1/2"	300
355-41	25x3/4"	250

Coupling Female Brass Adapter



Code Number	Size (mm x inch)	Pack Size (box)
353-60	20x1/2"	300
353-61	25x3/4"	250

90° Tee



Code Number	Size (mm)	Pack Size (box)
358-10	20	200
358-11	25	180
358-12	32	110
358-13	40	50
358-14	50	30
358-15	63	15
358-16	75	1
358-17	90	1
358-18	110	1

Reducing 90° Tee



Code Number	Size (mm x mm x mm)	Pack Size (box)
358-20	25x20x25	180
358-21	32x25x32	110
358-22	40x32x40	50
358-23	50x40x50	30
358-24	63x50x63	15
358-25	75x63x75	1
358-26	90x75x90	1
358-27	110x90x110	1

90° Male Tee



Code Number	Size (mm x inch x mm)	Pack Size (box)
358-30	20x1/2"x20	200
358-31	25x3/4"x25	180
358-32	32x1"x32	110
358-33	40x1 1/2"x40	50
358-34	50x1 1/2"x50	30
358-35	50x2"x50	30
358-36	63x2"x63	15
358-37	75x2 1/2"x75	1
358-38	90x3"x90	1
358-39	110x4"x110	1

90° Female Tee



Code Number	Size (mm x inch x mm)	Pack Size (box)
358-40	20x1/2"x20	200
358-41	25x3/4"x25	110
358-42	32x1"x32	110
358-43	40x1 1/2"x40	50
358-44	50x1 1/2"x50	30
358-45	50x2"x50	30
358-46	63x2"x63	15
358-47	75x2 1/2"x75	1
358-48	90x3"x90	1
358-49	110x4"x110	1

90° Female Tee Brass Adapter



Code Number	Size (mm x inch x mm)	Pack Size (box)
358-50	20x1/2"x20	200
358-51	25x3/4"x25	180

End Plug



Code Number	Size (mm)	Pack Size (box)
353-30	20	300
353-31	25	250
353-32	32	150
353-33	50	60
353-34	63	60
353-35	40	100
353-36	75	1
353-37	90	1
353-38	110	1



PE Compression - PVC Fitting



Code Number	Size (inch x mm)	Pack Size (bag)
353-70	1/2"x20	1
353-71	3/4"x25	1
353-72	1"x32	1
353-73	1 1/4"x40	1
353-74	1 1/2"x50	1
353-75	2"x63	1

Wrench For Fitting



Plastic
357-20-40
357-32-63



Aluminium
357-63-125

Code Number	Size (mm)	Pack Size (bag)
357-20-40	20-40	1
357-32-63	32-63	1
357-63-125	63-110	1

Compression Stop Valve



Code Number	Size (mm x mm)	Pack Size (box)
356-10	20x20	250
356-11	25x25	200
356-12	32x32	150

Compression Male Stop Valve



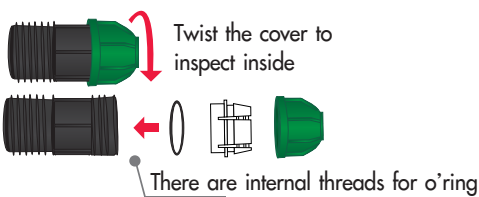
Code Number	Size (mm x inch)	Pack Size (bag)
356-VSS1	32x1"	1
356-VSS2	40x1 1/4"	1
356-VSS3	50x1 1/2"	1
356-VSS4	63x2"	1



TIPS

How to install PE Compression Connector

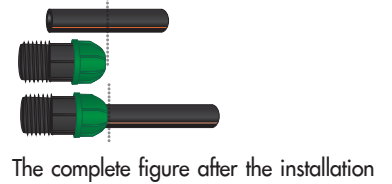
1 Twist the connector's cover



2 Cut the end of PE Pipe straightly

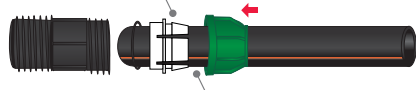


3 Measure the depth and mark it.



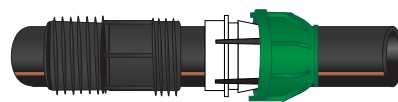
4 Insert the correct size of PE pipe into the cover and retaining ring. The end of retaining ring facing to the cover

The end of retaining ring facing to the connector's cover

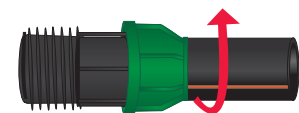


The size of PE pipe must fit to the compression connector

5 Push the inserted PE Pipe into the end of the connector (through the inside o'ring)



6 Twist the cover backward tightly to finish.



The installation of PE Compression Connector

PVC Pipe Clamp Saddles

uses with the large PVC Pipe 1 1/2"-4" and suitable for agricultural works or the projects where the PVC Pipes are installed, but need the split pipes later. By punching holes in the PVC Pipe by using Hole Saw and install a separate Clamp Saddle.

PVC Pipe double Saddle with Female Thread



Code Number	Size (inch)		Pack Size (bag)
	main pipe (inch)	split pipe (inch)	
359-40	1 1/2"	1/2"	1
359-41	1 1/2"	3/4"	1
359-42	1 1/2"	1"	1
359-43	2"	1/2"	1
359-44	2"	3/4"	1
359-45	2"	1"	1



Seal O'Ring

PVC Pipe Clamp Saddle with PE Connector



Code Number	Size	Pack Size (bag)
	(inch x mm)	
359-60	1 1/2"x16	1
359-61	1 1/2"x20	1
359-62	1 1/2"x25	1
359-63	2"x16	1
359-64	2"x20	1
359-65	2"x25	1



Seal O'Ring

PVC Pipe Clamp Saddle with Brass Female Thread



Code Number	Size (inch)		Pack Size (bag)
	main pipe (inch)	split pipe (inch)	
359-90	1 1/2"	1/2"	1
359-91	1 1/2"	3/4"	1
359-92	2"	1/2"	1
359-93	2"	3/4"	1



Seal O'Ring

PVC Pipe Double Clamp Saddle with PE Connector



Code Number	Size	Pack Size (bag)
	(inch x mm)	
359-70	1 1/2"x16	1
359-71	1 1/2"x20	1
359-72	1 1/2"x25	1
359-73	2"x16	1
359-74	2"x20	1
359-75	2"x25	1



Seal O'Ring

PVC Pipe Double Clamp Saddle with Female Thread



Code Number	Size (inch)		Pack Size (bag)
	main pipe (inch)	split pipe (inch)	
359-50	1 1/2"	1/2"	1
359-51	1 1/2"	3/4"	1
359-52	1 1/2"	1"	1
359-53	2"	1/2"	1
359-54	2"	3/4"	1
359-55	2"	1"	1



Seal O'Ring



PVC Pipe Double Clamp Saddle with Female Thread

Code Number	Size (inch)		Pack Size (bag)
	main pipe (inch)	split pipe (inch)	
359-400	2 1/2"	1/2"	1
359-401	2 1/2"	3/4"	1
359-402	2 1/2"	1"	1
359-403	2 1/2"	1 1/2"	1
359-404	2 1/2"	2"	1
359-405	3"	1/2"	1
359-406	3"	3/4"	1
359-407	3"	1"	1
359-408	3"	1 1/2"	1
359-409	3"	2"	1
359-410	3"	2 1/2"	1
359-411	4"	1/2"	1
359-412	4"	3/4"	1
359-413	4"	1"	1
359-414	4"	1 1/2"	1
359-415	4"	2"	1
359-416	4"	2 1/2"	1
359-417	4"	3"	1



Seal O'Ring

PVC Pipe Clamp Saddle with Female Thread

Code Number	Size (inch)		Pack Size (bag)
	main pipe (inch)	split pipe (inch)	
359-300	2 1/2"	1/2"	1
359-301	2 1/2"	3/4"	1
359-302	2 1/2"	1"	1
359-303	2 1/2"	1 1/2"	1
359-304	2 1/2"	2"	1
359-305	3"	1/2"	1
359-306	3"	3/4"	1
359-307	3"	1"	1
359-308	3"	1 1/2"	1
359-309	3"	2"	1
359-310	3"	2 1/2"	1
359-311	4"	1/2"	1
359-312	4"	3/4"	1
359-313	4"	1"	1
359-314	4"	1 1/2"	1
359-315	4"	2"	1
359-316	4"	2 1/2"	1
359-317	4"	3"	1



Seal O'Ring

 TIPS

How to install Saddle Clamp



1

Punch the main pipe, the same size as the outlet hole of the clamp



2

Put the o'ring on the slot in the clamp

3

Assemble the 1st Clamp on the punched pipe, then the 2nd Clamp to the 1st Clamp



The 1st Clamp



The 2nd Clamp

4

Assemble these 2 Clamps together firmly



Lock by a nut



PE Pipe Clamp Saddle

uses with PE Pipe Orange Strip only' in sizes of 50-110 mm and suitable for agricultural applications or the projects that are already installed PE Pipe. If need to split the pipes later can be done by punching holes and install Clamp Saddle.

PE Pipe Clamp Saddle Female Thread



Code Number	Size		Pack Size (bag)
	main pipe (mm.)	split pipe (inch)	
359-20	50	1/2"	1
359-21	50	3/4"	1
359-22	50	1"	1
359-23	63	1/2"	1
359-24	63	3/4"	1
359-25	63	1"	1

PE Pipe Clamp Saddle with Connector



Code Number	Size		Pack Size (bag)
	main pipe (mm.)	split pipe (mm.)	
359-01	50	16	1
359-02	50	20	1
359-03	50	25	1
359-04	63	16	1
359-05	63	20	1
359-06	63	25	1

PE Pipe Clamp Saddle with Brass Female Thread



Code Number	Size		Pack Size (bag)
	main pipe (mm.)	split pipe (inch)	
359-80	50	1/2"	1
359-81	50	3/4"	1
359-82	63	1/2"	1
359-83	63	3/4"	1

PE Pipe Double Clamp Saddle with Connector



Code Number	Size		Pack Size (bag)
	main pipe (mm.)	split pipe (mm.)	
359-10	50	16	1
359-11	50	20	1
359-12	50	25	1
359-13	63	16	1
359-14	63	20	1
359-15	63	25	1

PE Pipe Double Clamp Saddle Female Thread



Code Number	Size		Pack Size (bag)
	main pipe (mm.)	split pipe (inch)	
359-30	50	1/2"	1
359-31	50	3/4"	1
359-32	50	1"	1
359-33	63	1/2"	1
359-34	63	3/4"	1
359-35	63	1"	1



PE Pipe Double Clamp Saddle with Female Thread



Seal O'Ring

Code Number	Size		Pack Size (bag)
	main pipe (mm.)	split pipe (inch)	
359-200	75	1/2"	1
359-201	75	3/4"	1
359-202	75	1"	1
359-203	75	1 1/4"	1
359-204	75	1 1/2"	1
359-205	75	2"	1
359-206	90	1/2"	1
359-207	90	3/4"	1
359-208	90	1"	1
359-209	90	1 1/4"	1
359-210	90	1 1/2"	1
359-211	90	2"	1
359-212	90	2 1/2"	1
359-213	110	1/2"	1
359-214	110	3/4"	1
359-215	110	1"	1
359-216	110	1 1/4"	1
359-217	110	1 1/2"	1
359-218	110	2"	1
359-219	110	2 1/2"	1
359-220	110	3"	1

PE Pipe Clamp Saddle with Female Thread



Seal O'Ring

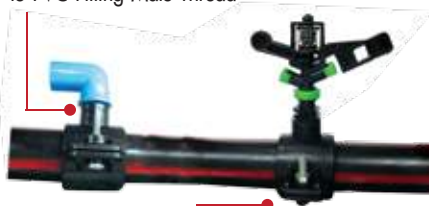
Code Number	Size		Pack Size (bag)
	main pipe (mm.)	split pipe (inch)	
359-100	75	1/2"	1
359-101	75	3/4"	1
359-102	75	1"	1
359-103	75	1 1/4"	1
359-104	75	1 1/2"	1
359-105	75	2"	1
359-106	90	1/2"	1
359-107	90	1 3/4"	1
359-108	90	1"	1
359-109	90	1 1/4"	1
359-110	90	1 1/2"	1
359-111	90	2"	1
359-112	90	2 1/2"	1
359-113	110	1/2"	1
359-114	110	3/4"	1
359-115	110	1"	1
359-116	110	1 1/4"	1
359-117	110	1 1/2"	1
359-118	110	2"	1
359-119	110	2 1/2"	1
359-120	110	3"	1



TIPS

How to install various patterns of Clamp Saddle

PE Pipe Clamp Saddle Female Thread connects to PVC Fitting Male Thread



PE Pipe Clamp Saddle Female Thread connects to Sprinkler Male Thread

PVC-PE Pipe Clamp Saddle connects to PE Pipe without cutting pipe



PVC Pipe Clamp Saddle Female Thread connects to Sprinkler Male Thread

PVC Pipe Clamp Saddle Female Thread connects to Nipple Male Thread with Sprinkler Female Thread

PP Connector

is made of PP Plastic with high flexible and and reasonable price Suitable for worthiness works and cost saving control.



Straight Connector to PVC Pipe Male Thread

Code Number	Color	Size (inch)	Pack Size (bag)
306-06B	black	1/2"	100
306-06	blue	1/2"	100
306-07	blue	3/4"	100

PP Nipple Male Thread



Code Number	Size (inch)	Pack Size (bag)
351-70	1/2"	100
351-71	3/4"	100
351-72	1"	100
351-73	1 1/2"	50
351-74	2"	50

PP Reducer Nipple Male Thread



Code Number	Size (inch x inch)	Pack Size (bag)
351-80	3/4"x1/2"	100
351-81	1"x3/4"	100
351-82	1 1/2"x1"	100
351-83	2"x1 1/2"	50

PP Reducer Male-Female Thread



Code Number	Size (inch)		Pack Size (bag)
	male thread	female thread	
351-30	3/4"	1/2"	100
351-31	1"	1/2"	100
351-32	1"	3/4"	100
351-33	1 1/2"	1/2"	100
351-34	1 1/2"	3/4"	100
351-35	1 1/2"	1"	100
351-36	2"	1/2"	50
351-37	2"	3/4"	50
351-38	2"	1"	50
351-39	2"	1 1/2"	50

PP End Plug Male Thread



Code Number	Size (inch)	Pack Size (bag)
351-90	1/2"	100
351-91	3/4"	100
351-92	1"	50
351-93	1 1/2"	50
351-94	2"	50

Round Reducer Connector Female Thread



Code Number	Size (inch x inch)	Pack Size (bag)
306-03	3/4"x1/2"	100
306-05	1"x3/4"	100



PP 4 Ways Female Thread



Code Number	Size (inch)	Pack Size (bag)
351-25	1/2"	100
351-26	3/4"	50
351-27	1"	50

PP 3 Ways Female Thread



Code Number	Size (inch)	Pack Size (bag)
351-20	1/2"	100
351-21	3/4"	100
351-22	1"	50

PP Union Connector Female Thread



Code Number	Size (inch)	Pack Size (bag)
356-20	3/4"	100
356-21	1"	100
356-22	1 1/2"	100
356-23	2"	50

PP Elbow 90° Female Thread



Code Number	Size (inch)	Pack Size (bag)
351-10	1/2"	100
351-11	3/4"	100
351-12	1"	50
351-13	1 1/2"	20
351-14	2"	20

PE Connector with Rubber Gasket



Code Number	Size (mm)	Pack Size (bag)
377-16	16	100
377-20	20	100
377-25	25	100

Agricultural Valve

are available in various types and suitable for closing or reduce level of water flow. Suitable for farmers who want to open the water as a zone. Also, control the flow rate of each valves to suit for the farmers to cultivate.




Agri Valve


This valve is for adjustable the pressure of water in the systems. It is not recommended as a shut off of water.

- 3 O'Ring in Agri Valve
- 1 O'Ring in Agri Valve Tantawan
- 3 O'Ring in Agri Valve Big Body Valve


Agri Valve - PE Pipe

	Code Number	Size (mm)	Pack Size (bag)
	380-16-20	16x20	100
	380-20	20x20	100
	380-25	25x25	100

Agri Valve - PE Pipe - Male Thread


	Code Number	Size (mm x inch)	Pack Size (bag)
	383	16x1/2"	100
	383-20	20x1/2"	100
	386	25x1/2"	100

Agri Valve - PE Pipe Rubber Gasket Connector


	Code Number	Size (mm)	Pack Size (bag)
	384-16-20	16x20	100
	384-20	20x20	100
	384-25	25x25	100

378-16
378-20
378-25


Agri Valve - PVC Pipe

	Code Number	Size (inch)	Pack Size (bag)
	388-1	1/2"	100
	388-2	3/4"x1/2"	100
	388-3	3/4"	100


Agri Valve - PVC - PE Pipes

	Code Number	Size (inch x mm)	Pack Size (bag)
	382-1	1/2"x16	100
	382-2	1/2"x20	100
	382-3	1/2"x25	100
	382-4	3/4"x16	100
	382-5	3/4"x20	100
	382-6	3/4"x25	100

Agri Valve - PVC - PE Fittings

	Code Number	Size (inch x mm)	Pack Size (bag)
	387-1	1/2"x16	100
	387-2	1/2"x20	100
	387-3	1/2"x25	100
	387-4	3/4"x16	100
	387-5	3/4"x20	100
	387-6	3/4"x25	100

Agri Valve - PVC Pipe Male Thread

	Code Number	Size (inch)	Pack Size (bag)
	381	1/2"x1/2"	100
	385	3/4"x1/2"	100

Agri Valve Tantawan

Agri Valve Tantawan - PE Pipe



Code Number	Size (mm)	Pack Size (bag)
389-30R	16	100
389-31R	20	100
389-32R	25	100

Agri Valve Tantawan - PVC Pipe



Code Number	Size (inch)	Pack Size (bag)
389-20R	1/2"	100
389-21R	3/4"x1/2"	100
389-22R	3/4"	100

Agri Valve Tantawan - PVC - PE Fittings



Code Number	Size (inch x mm)	Pack Size (bag)
389-60R	1/2"x16	100
389-61R	1/2"x20	100
389-62R	1/2"x25	100
389-63R	3/4"x16	100
389-64R	3/4"x20	100
389-65R	3/4"x25	100

Agri Valve Tantawan - PVC Pipe - Male Thread



Code Number	Size (inch)	Pack Size (bag)
389-10R	1/2"x1/2"	100
389-11R	3/4"x1/2"	100
389-12R	3/4"x3/4"	100



TIPS

All Agricultural Valves are only used for reducing the pressure of water in the system. They cannot turn off 100% of water. Ball Valve is recommended for closed water tightly.



Agri Valve Big Body - PE Pipe



Code Number	Size (mm)	Pack Size (bag)
388-90	16	100
388-91	20	100
388-92	25	100

Agri Valve Big Body - PVC Pipe



Code Number	Size (inch)	Pack Size (bag)
388-10	1/2"	100
388-12	3/4"	100
388-13	1"	100

Agri Valve Big Body - PVC - PE Pipes



Code Number	Size (inch x mm)	Pack Size (bag)
388-30	1/2"x16	100
388-31	1/2"x20	100
388-32	1/2"x25	100
388-33	3/4"x16	100
388-34	3/4"x20	100
388-35	3/4"x25	100
388-36	1"x32	100

Agri Valve Big Body - PVC - PE Fittings



Code Number	Size (inch x mm)	Pack Size (bag)
388-40	1/2"x16	100
388-41	1/2"x20	100
388-42	1/2"x25	100
388-43	3/4"x16	100
388-44	3/4"x20	100
388-45	3/4"x25	100
388-46	1"x32	100

Agri Valve Big Body - PVC Pipe - Male Thread



Code Number	Size (inch)	Pack Size (bag)
388-20	1/2"x1/2"	100
388-22	3/4"x3/4"	100

Agri Valve Big Body - PE Pipe - Male Thread



Code Number	Size (inch x mm)	Pack Size (bag)
388-50	1/2"x16	100
388-51	1/2"x20	100
388-52	1/2"x25	100
388-53	3/4"x16	100
388-54	3/4"x20	100
388-55	3/4"x25	100
388-56	1"x32	100

Drip Tape/Sprayer Tape

Suitable for agricultural system that planting in spaced evenly, planting in rows, such as kitchen garden plants, sugar cane, tapioca, strawberries, grapes and etc.

CHAIYO Drip Tape has a water drop tape inside tape. It makes water rate flow always flow evenly even on hill or pond area.

Drip Tape made of Grade A raw material, with UV protection coating on surface, makes it tough, durable and not fragile and no break easily.



Drip Tape

Advantages of Drip System

1. Low water consumption and water saving when compared to other systems.
2. Water drop straight at the root of the plant, help to reduce quantity of weed.
3. No need to use high pressure water pump connect with the water tank which set up on higher level. It has still enough water pressure for usage.
4. Easy to storage, can foldable.
5. Drip Tape has a special length, easy to install, saving labor cost and joints. The cost of irrigation system will be lower than PE pipe or PVC pipe installation costs.
6. Can use liquid fertilizers or nutrients mix in the tank for using them drop directly at the root of the plant.



Pressure Resistant
0.8-1 Bar
2.7 L/H per hole

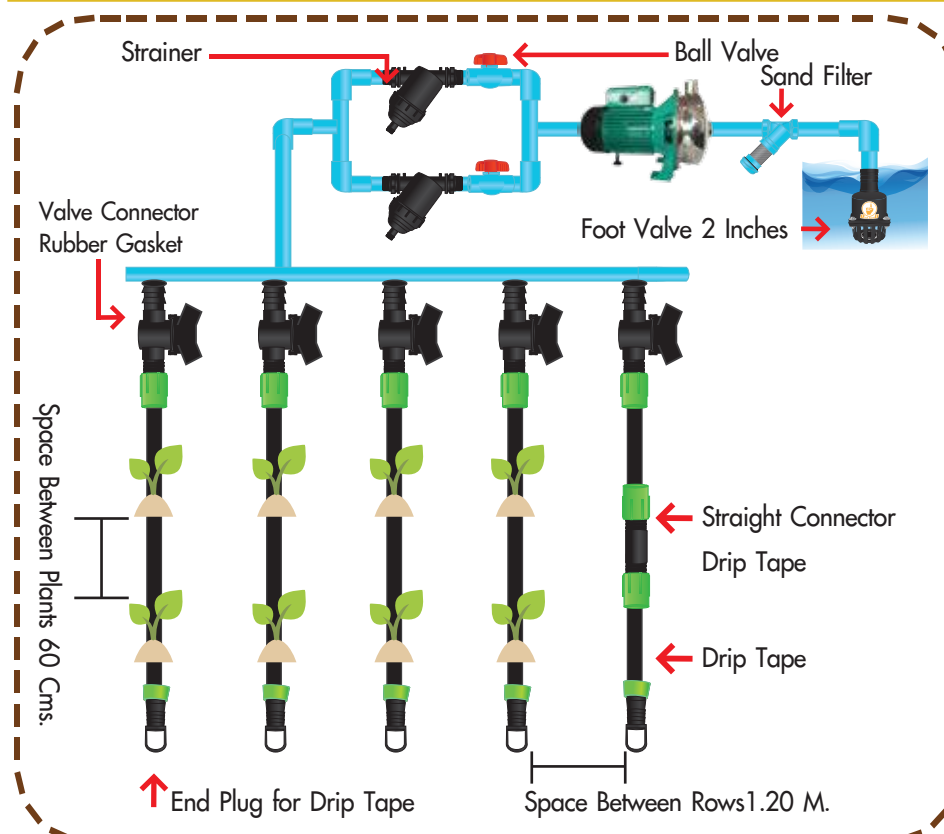


Drip Tape Chaiyo (Thickness 0.20) (8 mil)

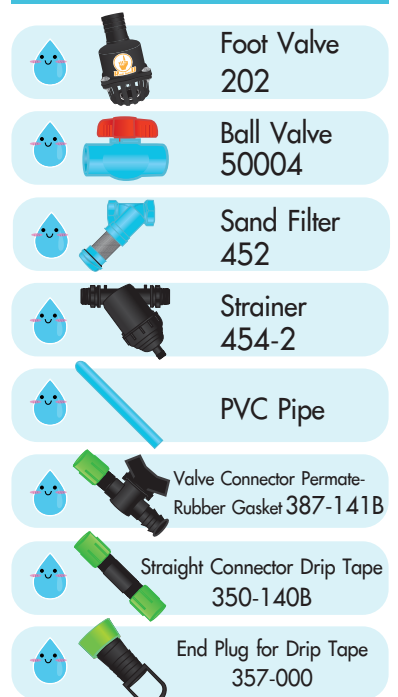
Code Number	Spacing (cm)	Length (meter)	Pack Size (sack)
6-DT10-1000(0.2)	10	1000	2
6-DT20-1000(0.2)	20	1000	2
6-DT30-1000(0.2)	30	1000	2
6-DT60-1000(0.2)	60	1000	2

TIPS

Sample of Drip Tape System



Drip Tape Accessories

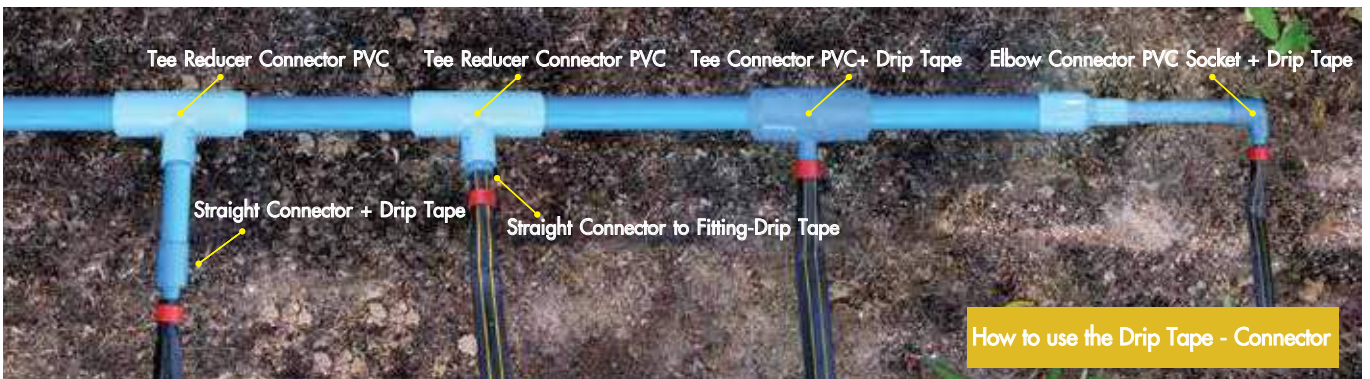
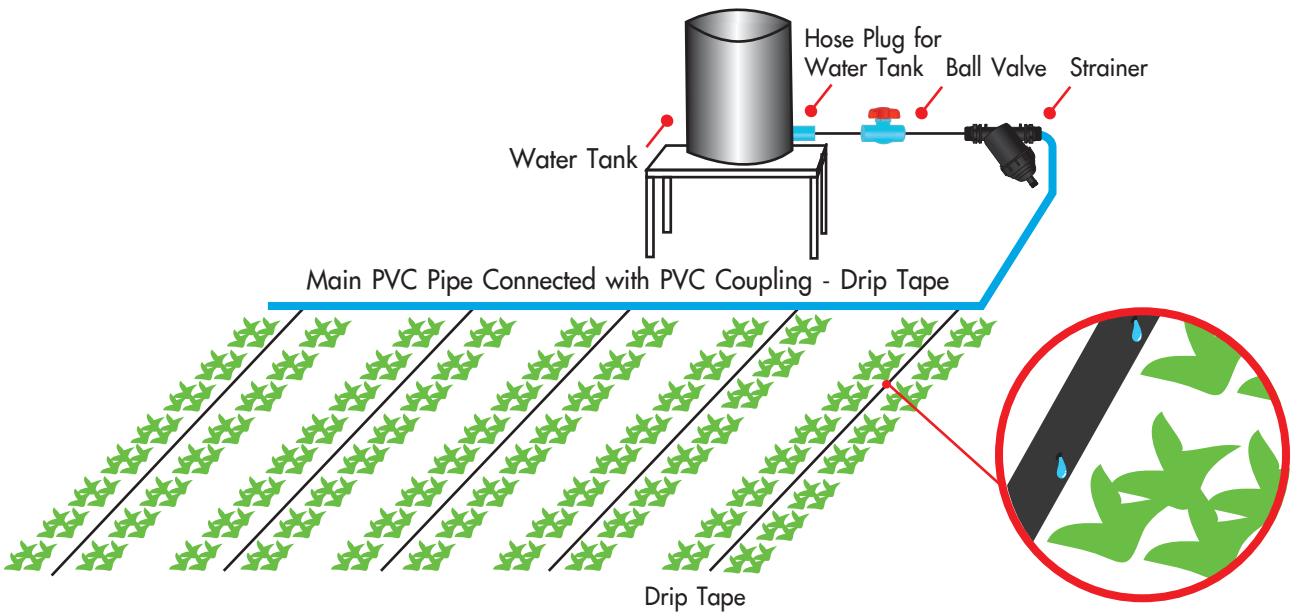




TIPS

How to Install the simple drip water system.

1. 20 liters of water per 30 meters length of drip Tape.
2. The tank should be at least 1 meter height from the ground to allow water pressure to flow down the tape throughout the system.
3. Drill holes in the water tank. Install the hose plug at the water tank (Code No. 590-20)
4. Install the fine Strainer (Code No. 454-6) to filter dirty debris and prevent blockage.
5. Install Main PVC Pipe, then use PVC Coupling - Drip Tape as Sub PVC Pipe.



Drip Tape Connector

Drip Tape Connector are two types.

Round Type and Flat Type.

1. Round Drip Tape Connector can be used only with Round Drip Tape.
2. Flat Drip Tape Connector can be used with both Round and Flat Drip Tapes.



Round Type



Flat Type



Round Type

Flat Type

378-16T

Straight Connector Drip Tape

Code Number	Type	Size (mm)	Pack Size (bag)
350-140	Round	16.5	100
350-140คั๊ว	Rouind	16.5	100
350-140B	Flat	16.5	100

Straight Connector Rubber Gasket - Drip Tape

Code Number	Type	Size (mm x mm)	Pack Size (bag)
350-141	Round	16x16.5	100
350-141B	Flat	16x16.5	100



Round Type



Flat Type



Straight Connector - Drip tape Male Thread

Code Number	Type	Size (inch x mm)	Pack Size (bag)
350-132	Round	1/2"x16.5	100
350-132B	Flat	1/2"x16.5	100

Straight Connector PE - Drip Tape

Code Number	Type	Size (mm x mm)	Pack Size (bag)
350-110B	Flat	16x16.5	100
350-111B	Flat	20x16.5	100



Tee Connector - Drip Tape

Code Number	Type	Size (mm)	pack Size (bag)
350-143B	Flat	16.5	100



Lay-Flat Connector - Drip Tape

Code Number	Type	Size (mm)	pack Size (bag)
350-141C	Flat	16.5	100



Round Type



Flat Type

Tee Connector - Drip Tape

Code Number	Type	Size (mm x mm)	Pack Size (bag)
350-151	Round	20x16.5	100
350-152	Round	25x16.5	100
350-153	Round	32x16.5	100
350-151B	Flat	20x16.5	100
350-152B	Flat	25x16.5	100
350-153B	Flat	32x16.5	100



Round Type



Flat Type

Tee Connector-Drip Tape Male Thread

Code Number	Type	Size (inch x mm)	Pack Size (bag)
350-161	Round	1/2"x16.5	100
350-162	Round	3/4"x16.5	100
350-161B	Flat	1/2"x16.5	100
350-162B	Flat	3/4"x16.5	100



3 Ways Rubber Gasket - Drip Tape

Code Number	Type	Size (mm x mm)	Paqck Size (bag)
350-154B	Flat	16x16.5	100





Round Type



Flat Type

4 Ways Connector - Drip Tape Female Thread

Code Number	Type	Size (inch x mm)	Pack Size (bag)
350-125	Round	1"x16.5	100
350-125B	Flat	1"x16.5	100



Round Type



Flat Type

6 Ways Connector - Drip Tape Female Thread

Code Number	Type	Size (inch x mm)	Pack Size (bag)
350-124	Round	1"x16.5	100
350-124B	Flat	1"x16.5	100



Round Type



Flat Type

4 Ways Connector - Drip Tape

Code Number	Type	Size (inch x mm)	Pack Size (bag)
350-186	Round	1"x16.5	100
350-187	Round	1 1/2"x16.5	100
350-188	Round	2"x16.5	100
350-186B	Flat	1"x16.5	100
350-187B	Flat	1 1/2"x16.5	100
350-188B	Flat	2"x16.5	100



Round Type



Flat Type

Tee Connector Socket - Drip Tape

Code Number	Type	Size (inch x mm)	pack Size (bag)
350-181	Round	1/2"x16.5	100
350-182	Round	3/4"x16.5	100
350-183	Round	1"x16.5	100
350-184	Round	1 1/2"x16.5	100
350-185	Round	2"x16.5	100
350-181B	Flat	1/2"x16.5	100
350-182B	Flat	3/4"x16.5	100
380-183B	Flat	1"x16.5	100
380-184B	Flat	1 1/2"x16.5	100
350-185B	Flat	2"x16.5	100



connect to pipe



connect to fitting

Straight Connector - Drip Tape

Code Number	Type	Size (inch x mm)	Pack Size (bag)
350-191	Connect to Pipe-Round	1/2"x16.5	100
350-191B	Connect to Pipe-Flat	1/2"x16.5	100
350-196	Connect to Fitting-Round	1/2"x16.5	100
350-196B	Connect to Fitting-Flat	1/2"x16.5	100



Water Release Valve

Code Number	Size (inch)	Pack Size (bag)
387-200	1/2"	100



Round Type



Flat Type

End Plug for Drip Tape 16 mm.

Code Number	Type	Pack Size (bag)
357-000	Round	100
357-000B	Flat	100



TIPS

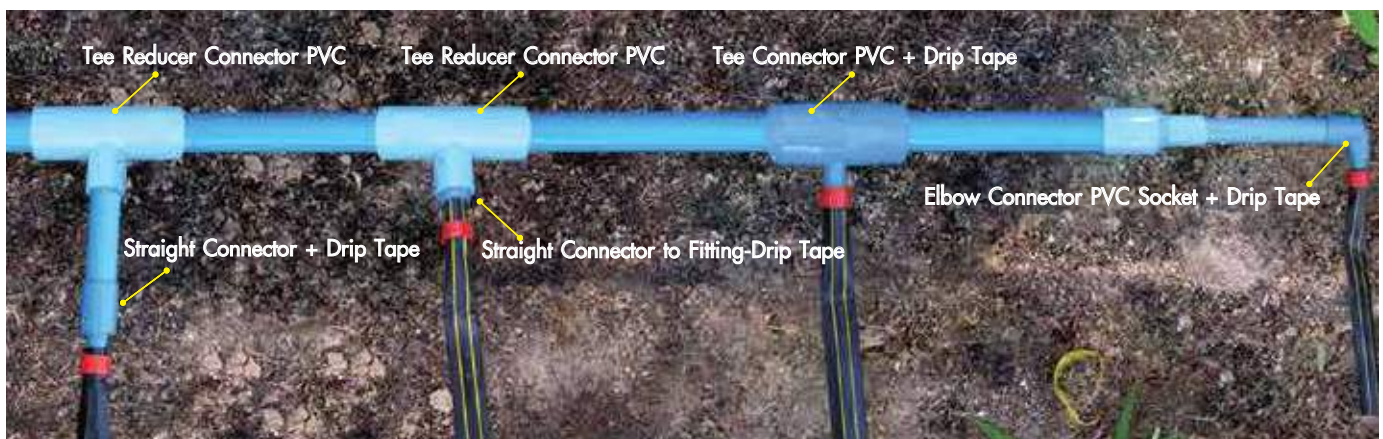
How to use Drainage Valve

1. Insert the end of Drip Tape, use with the Drip Tape Connector Male Thread.
2. The advantage of Drainage Valve is when the water pump is closed, there is no remaining water in the Drip Tape. Prevent ants and insect bites.



TIPS

How to install Drip Tape Connector



 TIPS

How to install the Round and Flat Types of Drip Tape Connector

Drip Tape Connector (Round)



Drip Tape Connector (Flat)



Drip Tape Connector - PE Pipe (Round)



Drip Tape Connector - PE Pipe (Flat)



Drip Tape Rubber Gasket Connector (Round)



Drip Tape Rubber Gasket Connector (Flat)



Drip Tape Connector Male Thread (Round)



Drip Tape Connector Male Thread (Flat)



PVC Pipe Drip Tape Connector (Round) (Connect to Pipe)



PVC Pipe Drip Tape Connector (Flat) (Connect to Fitting)



PVC Pipe Drip Tape Connector (Round) (Connect to Fitting)



PVC Pipe Drip Tape Connector (Flat) (Connect to Fitting)



Drip Tape Valve

Valve Connector Drip Tape



Code Number	Size (mm)	Pack Size (bag)
387-140B	16.5	100

Valve Connector PE - Drip Tape



Code Number	Size (mm)	Pack Size (bag)
387-110B	16x16.5	100

Valve Connector PVC Socket - Drip Tape



Code Number	Size (inch x mm)	Pack Size (bag)
387-196B	1/2"x16.5	100

Valve Connector Rubber Gasket - Drip Tape



Code Number	Size (mm)	Pack Size (bag)
387-141B	16x16.5	100
387-142B	20x16.5	100

Lay-Flat Connector - Drip Tape



Code Number	Size (mm)	Pack Size (bag)
387-141C	16.5	100

Rubber Gasket



Code Number	Size (mm)	Pack Size (bag)
378-16	16	100
378-20	20	100
378-25	25	100
378-32	32	100
378-16K	16	100
378-16T	16	100
378-20T	20	100

End Plug Rubber Gasket



Code Number	Size (mm)	Pack Size (bag)
378-16C	16	100
378-20C	20	100

Valve Connector Drip Tape - Male Thread



Code Number	Size (inch x mm)	Pack Size (bag)
387-130B	1/2"x16.5	100

Valve Connector PVC Socket - Drip Tape



Code Number	Size (inch x mm)	Pack Size (bag)
387-191B	1/2"x16.5	100

Valve Connector Rubber Gasket - Drip Tape



Code Number	Size (mm)	Pack Size (bag)
387-141	16x16.5	100

Valve Connector Rubber Gasket - Drip Tape



Code Number	Size (mm)	Pack Size (bag)
387-141T(orange)	16x16.5	100
387-141TD	16x16.5	100





TIPS

How to install Round and Flat Types of Drip Tape Valve.

Drip Tape Valve (Round)



Drip Tape Valve (Flat)



Drip Tape Valve - PE Pipe (Round)



Drip Tape Valve - PE Pipe (Flat)



Drip Tape Valve
Rubber Gasket Connector (Round)



Drip Tape Valve - Rubber Gasket Connector (Flat)



Drip Tape Valve Male Thread (Round)



Drip Tape Valve Male Thread (Flat)



Drip Tape Valve - PVC Pipe (Round)



Drip Tape Valve - PVC Pipe (Flat)



Drip Tape Valve - PVC Fitting (Round)



Drip Tape Valve - PVC Fitting (Flat)



Sprayer Tape

Suitable for growing plants in a constant space as rows. Double Sides of Sprayer Tape have holes and constant spacing between holes. Can make the water out without the sprinklers.

Advantages of Sprayer Tape

1. Cost savings because of use a few connectors and do not need to use sprinklers.
2. Save time and money on installation.
3. Easy to storage, can foldable.

Sample of Sprayer Tape System



Sprayer Tape Chaiyo

Code Number	Size (connect to pipe)	Width (mm)	(Holes)	Hole Size (mm)	Flow Rate (per hole) (L/H)	Length (meter)	Pack Size (box)
6-69(1)	1/2"	35	1	0.8	14.4	100	12
6-69(2)	1/2"	35	2	0.6	10.8	100	12
6-69(3)	1/2"	35	3	0.6	10.8	100	12
6-70(2)	3/4"	43	2	0.6	10.8	100	10
6-70(3)	3/4"	43	3	0.6	10.8	100	10
6-70(4)	3/4"	43	4	0.6	10.8	100	10
6-70(5)	3/4"	43	5	0.6	10.8	100	10
6-71(2)	1"	54	2	0.6	10.8	100	8
6-71(3)	1"	54	3	0.6	10.8	100	8
6-71(4)	1"	54	4	0.6	10.8	100	8
6-71(5)	1"	54	5	0.6	10.8	100	8
6-72(4)	1 1/4"	67	4	0.8	14.4	100	6
6-72(5)	1 1/4"	67	5	0.8	14.4	100	6
6-73(5)	1 1/2"	67	5	0.8	14.4	100	6
6-74(5)	2"	96	5	0.8	14.4	100	4





Sample of Sprayer Tape System



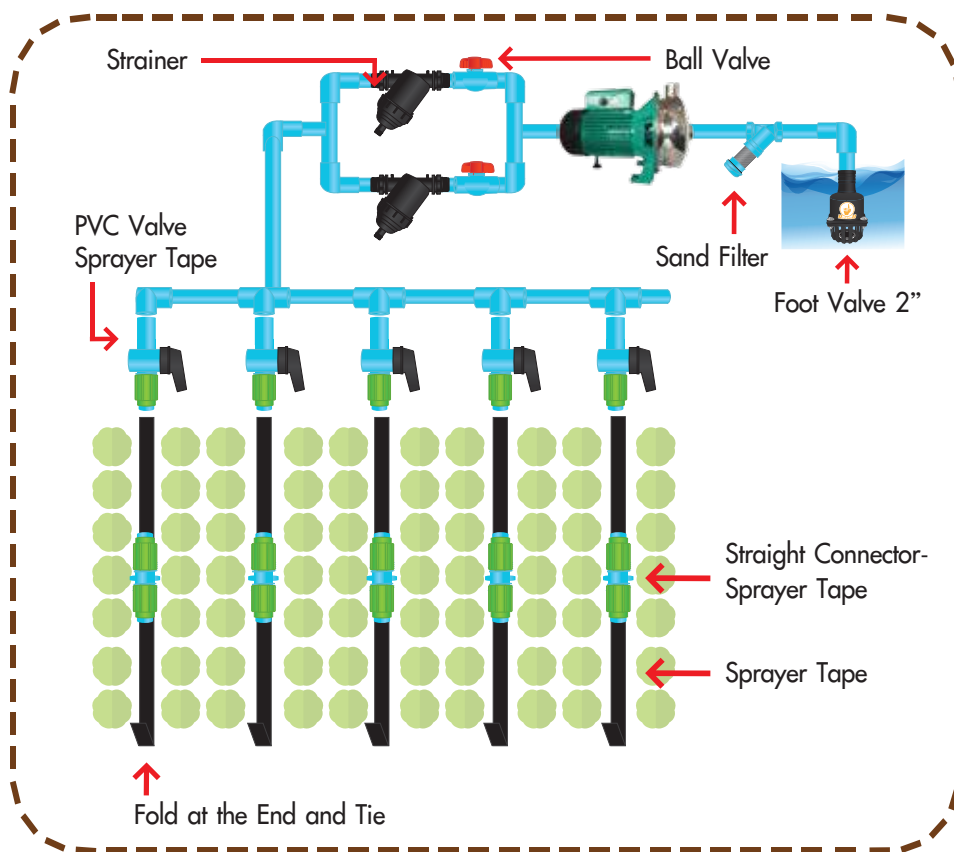
Model with Edges to Prevent the Flips

Sprayer Tape Chaiyo with Edge

Code Number	Size (connect to pipe)	Width (mm)	(Holes)	Flow Rate (per hole) (L/H)	Length (meter)	Size Pack (box)
6-70W(2)	3/4"	43	2	10.8	100	10
6-71W(3)	1"	54	3	10.8	100	6
6-72W(3)	1 1/4"	67	3	10.8	100	6
6-73W(5)	1 1/2"	67	5	10.8	100	6
6-74W(5)	2"	96	5	10.8	100	4



TIPS Sample of Sprayer Tape System



Sprayer Tape Accessories

- Foot Valve 202
- Ball Valve 50005
- Sand Filter 452
- Strainer 454-2
- PVC Pipe
- PVC Connectors
- PVC Valve - Sprayer Tape 388-70
- Straight Connector-Sprayer Tape 352-11

Sprayer Tape Connector



Straight Connector Sprayer Tape

Code Number	Size (inch)	Width (mm)	Pack Size (bag)
352-10	1/2"	35	100
352-11	3/4"	43	100



Straight Connector Sprayer Tape Male Thread

Code Number	Size (inch)	Width (mm)	Pack Size (bag)
352-20	1/2"	35	100
352-21	3/4"	43	100



Straight Connector PVC Fitting Sprayer Tape

Code Number	Size (inch)	Width (mm)	Pack Size (bag)
352-30	1/2"	35	100
352-31	3/4"	43	100



Straight Connector PVC Pipe Sprayer Tape

Code Number	Size (inch)	Width (mm)	Pack Size (bag)
352-40	1/2"	35	100
352-41	3/4"	43	100



Straight Connector Sprayer Tape

Code Number	Size (inch)	Width (mm)	Pack Size (bag)
352-12	1"	54	100
352-13	1 1/4"	67	100



Straight Connector Sprayer Tape Male Thread

Code Number	Size (inch)	Width (mm)	Pack Size (bag)
352-22	1"	54	100
352-23	1 1/4"	67	100



Straight Connector PVC Fitting Sprayer Tape

Code Number	Size (inch)	Width (mm)	Pack Size (bag)
352-32	1"	54	100
352-33	1 1/4"	67	100



Straight Connector PVC Pipe Sprayer Tape

Code Number	Size (inch)	Width (mm)	Pack Size (bag)
352-42	1"	54	100
352-43	1 1/4"	67	100

*Sprayer Tape Measurement When Fold Diameter.



Sprayer Tape Valve

Sprayer Tape Valve - Lay flat



Code Number	Size *(mm x inch)	Pack Size (bag)
388-88	35x1/2"	100
388-89	43x3/4"	100

Sprayer Tape Valve - Male Thread



Code Number	Size *(mm x inch)	Pack Size (bag)
388-79	35x1/2"	100
388-80	43x3/4"	100

Sprayer Tape Valve - Male Thread



Code Number	Size *(mm x inch)	Pack Size (bag)
388-81	54x1"	100
388-82	67x1 1/4"	100

Sprayer Tape Valve - PVC Pipe



Code Number	Size *(mm x inch)	Pack Size (bag)
388-59	35x1/2"	100
388-60	43x3/4"	100

Sprayer Tape Valve - PVC Pipe



Code Number	Size *(mm x inch)	Pack Size (bag)
388-61	54x1"	100
388-62	67x1 1/4"	100

Sprayer Tape Valve - Fitting



Code Number	Size *(mm x inch)	Pack Size (bag)
388-69	35x1/2"	100
388-70	43x3/4"	100

Sprayer Tape Valve - Fitting



Code Number	Size *(mm x inch)	Pack Size (bag)
388-71	54x1"	100
388-72	67x1 1/4"	100

Sprayer Tape Valve - Rubber Gasket



Code Number	Size *(mm)	Pack Size (bag)
388-100	35x20	100
388-101	43x25	100

378-20
378-25

Sprayer Tape Valve - Rubber Gasket



Code Number	Size *(mm)	Pack Size (bag)
388-102	54x32	100

378-32

*Sprayer Tape Measurement When Fold Diameter.



Mini Sprinkler

Mini Sprinkler has low flow rate. There are drippers, Mini Sprinkler Irrigation. The water radius is not over than 0.5-3.0 meters. Suitable for small areas or shrubs.

Dripper



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water flow rate to suit with each kind of plants.
- Dripper spread regularly water in a correct position and suitable for using in specific area.
- Water saving and use worth of water.



371



371-1



371-1(4)



371-1(8)



371-A



371-S



371-3



371-4

Code Number	Description	Flow Rate (liter : hr)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
371	Adjustable On-line Dripper	1-3 Liters/Hour Depends on the Pressure	0.5 Meter	0.5-2 Bars	100	5,000
371-1	On-line Dripper 2 lph				100	1,000
371-1(4)	On-line Dripper 4 lph				100	1,000
371-1(8)	On-line Dripper 8 lph				100	1,000
371-A	Adjustable On-line Dripper				100	500
371-S	Adjustable On-line Dripper with Spike				100	1,000
371-3	Arrow Drip				100	1,000
371-4	Arrow Drip Elbow				100	1,000



371-F4



371-F8



371-F16



371-C2



371-C4



371-C8



371-P2



371-P4



371-P8

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
371-F4	Flag Drip 4 lph (Black)	1-3 Liters/Hour Depends on the Pressure	0.5 Meter	0.5-2 Bars	100	1,000
371-F8	Flag Drip 8 lph (Blue)				100	1,000
371-F16	Flag Drip 16 lph (Green)				100	1,000
371-C2	PC Dripper 2 lph				100	500
371-C4	PC Dripper 4 lph				100	1,000
371-C8	PC Dripper 8 lph				100	1,000
371-P2	PC On-line Dripper 2 lph				100	500
371-P4	PC On-line Dripper 4 lph				100	500
371-P8	PC On-line Dripper 8 lph	100	500			

Fogger



Suitable for watering plants that need volume of medium water in kind of horticultures, vegetables and flowers.



- Made from high quality of plastic.
- Various ranges of water flow rate to suit with each kind of plants.
- Fogger spread fuzzi water and water saving.
- Suitable for growing plants and help to reduce the heat.



Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure	Pack Size	
					(bag)	(box)
374-1	Fog Head	24-36 Liters/Hour/Head Depends on the Pressure	0.5-3 Meters	2-4 Bars	100	7,000
374-C1	Fog Head 1 Way + PVC Connector				100	2,000
374-C4	Fog Head 4 Ways + PVC Connector				100	500
374-11	Fog Sprayer				100	7,000
374-14	Fog Sprayer 4 Ways				50	300
374-15	Fog Sprayer 5 Ways				50	300
374-SN4	Fog Sprayer 4 Ways-Less Water				100	1,200



Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
374-T1	Fog Head Set 1 Way	24-36 Liters/Hour/Head Depends on the Pressure	0.5-3 Meters	2-4 Bars	50	500
374-T4	Fog Head Set 4 Ways				50	300
374-TV1	Fog Head Set 1 Way + Valve				50	700
374-V4	Fog Head Set 4 Ways + Valve				50	250
374-G4T	Fog Head Set 4 Ways + Valve				50	250
374-G1	Fog Head 1 Way				100	7,000
374-G4	Fog Head 4 Ways				50	300



Sprayer 360 Degree



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water flow rate to suit with each kind of plants.
- Sprayer 360 Degree System spread fuzzi with hurtle in higher level and water saving.
- Can open - close or adjust the volume of water as needed. (Mini Valve Type only)



374-S



374-A



374



374-C



3374



3374-V

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size (bag) (box)
374-S	Sprayer 360 Degree	80-120 Liters/Hour Depends on the Pressure	0.5-3 Meters	0.5-3 Bars	500 -
374-A	Sprayer 360 Degree				500 -
374	Sprayer 360 Degree				500 -
374-C	Sprayer 180 Degree with Socket				100 1,300
3374	Sprayer 360 Degree with Spike 40 Cms.				50 300
3374-V	Sprayer 360 Degree with Spike 40 Cms. + Valve				50 250

Big Sprayer 360 Degree



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water flow rate to suit with each kind of plants.
- Big Sprayer 360 Degree System spread fuzzi in wide area.
- Can open - close or adjust the volume of water as needed. (Mini Valve Type only)



374-N



374-B



374-BC



3374-B



3374-BV

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size (bag) (box)
374-N	Sprayer 360 Degree	80-120 Liters/Hour Depends on the Pressure	0.5-3 Meters	0.5-3 Bars	500 -
374-B	Big Sprayer 360 Degree				500 -
374-BC	Sprayer 180 Degree with Socket				100 1,300
3374-B	Big Sprayer 360 Degree with Spike 40 Cms.				50 300
3374-BV	Big Sprayer 360 Degree with Spike 40 Cms. + Valve				50 300

Sprayer 180 Degree - Long Jet



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water spread rate to suit with each kind of plants.
- Sprayer 180 Degree System make hurtle water to higher level and spread fuzz.
- Can open - close or adjust the volume of water as needed. (Mini Valve Type only)



Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size (bag) (box)	
375	Sprayer 180 Degree	80-120 Liters/Hour Depends on the Pressure	0.5-3 Meters	0.5-3 Bars	500	-
375-C	Sprayer 180 Degree 1 Head with Socket				100	1,500
375-2C	Sprayer 180 Degree 2 Heads with Socket				100	1,500
375-3C	Sprayer 180 Degree 3 Heads with Socket				100	1,500
3375	Sprayer 180 Degree with Spike 40 Cms.				50	300
3375-V	Sprayer 180 Degree with Spike 40 Cms. + Valve				50	300

Sprayer 180 Degree - Short Jet



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.





















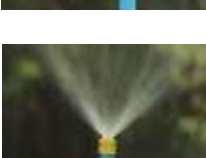








- Made from high quality of plastic.
- Various ranges of water spread rate to suit with each kind of plants.
- Sprayer 180 Degree System make hurtle water to higher level and spread fuzz.
- Can open - close or adjust the volume of water as needed. (Mini Valve Type only)



Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size (bag) (box)	
376-1	Sprayer 180 Degree	80-120 Liters/Hour Depends on the Pressure	0.5-3 Meters	0.5-3 Bars	500	-
3376-1	Sprayer 180 Degree with Spike 40 Cms.				50	300
3376-V	Sprayer 180 Degree with Spike 40 Cms. + Valve				50	300
376	Sprayer 180 Degree				500	-



Sprayer

		Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pack Size (bag) (box)	
		360-1 	Sprayer Female Thread 1/2"	300-600 Liters/Hour Depends on the Pressure	2-5 Meters 0.5-3 Bars	100	500
		360-2 	Sprayer Female Thread 3/4"x1/2"			100	500
		360-1C 	Sprayer Female Thread PVC Cover 1/2"			100	500
		360-11 	Sprayer + Adaptor PVC Socket 1/2"			100	1,300
		360-111 	Sprayer 180 Degree Female Thread			500	7,500
		360-6 	Sprayer 360 Degree Female Thread 3/4"x1/2"			100	2,000
		360-9 	Sprayer + Adaptor PVC Socket 1/2"			100	1,200
		370-3 	Sprayer Female Thread 3/4"x1/2"			100	1,200
		370-4 	Sprayer Female Thread 3/4"x1/2"			100	1,200

Mini Sprinkler 2 in 1



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water spread rate to suit with each kind of plants.
- Can change to a Impact Head Type from the top of Mini Sprinkler.
- Can open - close or adjust the volume of water as needed. (Mini Valve Type only)



Code Number	Description	Flow Rate (liter : hour)	Radius (mater)	Pressure (bar)	Pack Size (bag) (box)	
3222	Minisprinkler 2in1 with Micro Connector	50-180 Liters/Hour Depends on the Pressure	0.5-3 Meters	0.5-3 Bars	100	4,000
322	Minisprinkler 2in1 with Micro Connector				100	4,000
322-G	Minisprinkler 2in1 Female Thread				100	2,500
3222-C	Minisprinkler 2in1 + Socket				100	2,000
3222-V	Minisprinkler 2in1 with Micro Connector + Valve				100	2,500
3322	Minisprinkler 2in1 Set with Spike 40 Cms.				50	250
3322-V	Minisprinkler 2in1 Set with Spike 40 Cms. + Valve				50	250

Mini Sprinkler A (Insects Protection)



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water spread rate to suit with each kind of plants.
- Protect the insects get into the hole and will close in automatically while stopped.
- Can open - close or adjust the volume of water as needed. (Mini Valve Type only)



Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size (bag) (box)	
321-A	Minisprinkler A with Micro Connector	50-180 Liters/Hour Depends on the Pressure	0.5-3 Meters	0.5-3 Bars	100	4,000
311-A	Minisprinkler A Female Thread				100	2,500
321-AC	Minisprinkler A + Socket				100	2,000
321-AV	Minisprinkler A with Micro Connector + Valve				100	2,500
331-A	Minisprinkler A Set with Spike 40 Cms.				50	250
331-AV	Minisprinkler A Set with Spike 40 Cms. + Valve				50	250



Mini Sprinkler B (high jet)



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water spread rate to suit with each kind of plants.
- The hole of spray is narrow. It will give water out to high and wide spread.
- Can open - close or adjust the volume of water as needed. (Mini Valve Type only)



321-B



311-B



321-BC



321-BV



331-B



331-BV

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
321-B	Minisprinkler B with micro connector	50-180 Liters/Hour Depends on the Pressure	0.5-3 Meters	0.5-3 Bars	100	4,000
311-B	Minisprinkler B Female Thread				100	2,500
321-BC	Minisprinkler B + socket				100	2,000
321-BV	Minisprinkler B with micro connector + valve				100	2,500
331-B	Minisprinkler B set with spike 40 cm				50	250
331-BV	Minisprinkler B set with spike 40 cm + valve				50	250

Mini Sprinkler C (Long Jet)



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water spread rate to suit with each kind of plants.
- 45 Degree holes of sprinkler make water out to far.
- Can open - close or adjust the volume of water as needed. (Mini Valve Type only)



321-C



311-C



321-CC



321-CV



331-C



331-CV

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
321-C	Minisprinkler C with Micro Connector	50-180 Liters/Hour Depends on the Pressure	0.5-3 meters	0.5-3 Bars	100	4,000
311-C	Minisprinkler C Female Thread				100	2,500
321-CC	Minisprinkler C + Socket				100	2,000
321-CV	Minisprinkler C with Micro Connector + Valve				100	2,500
331-C	Minisprinkler C Set with Spike 40 Cms.				50	250
331-CV	Minisprinkler C Set with Spike 40 Cms. + Valve				50	250

Mini Sprinkler D (Fine water)



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water spread rate to suit with each kind of plants.
- The water that affects the leaves, will make water spread out as fuzz.
- Can open - close or adjust the volume of water as needed. (Mini Valve Type only)



321-D2



321-D1



321-D



311-D



321-DC

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
321-D2	Minisprinkler D with Micro Connector	50-180 Liters/Hour Depends on the Pressure	0.5-3 Meters	0.5-3 Bars	100	6,000
321-D1	Minisprinkler D with Micro Connector				100	4,000
321-D	Minisprinkler D with Micro Connector				100	4,000
311-D	Minisprinkler D Female Thread 1/2"				100	2,500
321-DC	Minisprinkler D + PVC Socket 1/2"				100	2,000



321-DV



331-D2



331-D2V



331-D



331-DV

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
321-DV	Minisprinkler D with Micro Connector + Valve	50-180 Liters/Hour Depends on the Pressure	0.5-3 Meters	0.5-3 Bars	100	2,500
331-D2	Minisprinkler D Set with Spike 40 Cms.				50	300
331-D2V	Minisprinkler D Set with Spike 40 Cms. + valve				50	250
331-D	Minisprinkler D Set with Spike 40 Cms.				50	250
331-DV	Minisprinkler D Set with Spike 40 Cms. + Valve				50	250



Mini Sprinkler (Adjustable)



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water flow rate to suit with each kind of plants.
- The leaves are slim grooves that can adjust the water level is high-low.
- Can open - close or adjust the volume of water as needed. (Mini Valve Type only)



325-1



325-G



325-C1



325-2



325-3

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
325-1	Minisprinkler Adjustable with Micro Connector	50-180 Liters/Hour	0.5-3 Meters	0.5-3 Bars	100	3,500
325-G	Minisprinkler Adjustable Female Thread 1/2"				100	3,000
325-C1	Minisprinkler Adjustable + Socket PVC1/2"	Depends on the Pressure	0.5-3 Meters	0.5-3 Bars	100	2,000
325-2	Minisprinkler Adjustable with Connector+Spike				50	250
325-3	Minisprinkler Adjustable with Connector+Spike+Valve				50	250

Mini Sprinkler NUNI (Fine water)



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water flow rate to suit with each kind of plants.
- The water spread out as fuzz and wide spread.
- Can open - close or adjust the volume of water as needed. (Mini Valve Type only)



321-N



311-N



321-NC



321-NV



331-N



331-NV

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
321-N	Minisprinkler NUNI with micro connector	50-180 Liters/Hour	0.5-3 Meters	0.5-3 Bars	100	4,000
311-N	Minisprinkler NUNI Female Thread 1/2"				100	2,500
321-NC	Minisprinkler NUNI + socket PVC1/2"	Depends on the Pressure	0.5-3 Meters	0.5-3 Bars	100	2,000
321-NV	Minisprinkler NUNI with micro connector + valve				100	2,500
331-N	Minisprinkler NUNI set with spike 40 cm				50	250
331-NV	Minisprinkler NUNI set with spike 40 cm + valve	50	250			

Mini Sprinkler (Impact Head)



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water flow rate to suit with each kind of plants.
- The water spread out as fuzz and wide spread.
- The water that affects the leaves, will make water spread out. Can be rotate and adjust to distribute the water.

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pack Size (bag)	Pack Size (box)
 	321-E Minisprinkler E with Micro Connector	50-180 Liters/Hour Depends on the Pressure	0.5-3 Meters	100	4,000
 	321-F Minisprinkler F with Micro Connector			100	4,000
 	321-H Minisprinkler H with Micro Connector			100	4,000
 	321-I Minisprinkler I with Micro Connector Crash Head			100	4,000
 	321-J Minisprinkler J with Micro Connector Crash Head			100	4,000
 	321-K Minisprinkler K with Micro Connector			100	4,000
 	321-L Minisprinkler L with Micro Connector			100	4,000





Spike for Mini Sprinkler

Code Number	Description	Height (cm)	Pack Size	
			(bag)	(sack)
392	Spike with Pipe Clip 30 cm.	30	50	800
392-1	Spike 30 cm.	30	50	400
393	Spike with Pipe Clip 40 cm.	40	50	250
393-2	Spike Mini Sprinkler C Pipe Clip 40 cm.	40	50	250
393-2-50	Spike Mini Sprinkler C pipe clip 50 cm.	50	50	200
393-50	Spike with Pipe Clip 50 cm.	50	50	200
393-B	Spike with Pipe Clip 60 cm.	60	50	150
393-I	Spike with 12 mm. tube.	130	10	-

Spike for Sprayer

Code Number	Description	Height (cm)	Pack Size	
			(bag)	(sack)
392-2	Spike Sprayer 360 Degree with Micro Connector 40 cm.	40	50	250
392-4	Spike Sprayer	30	50	400
393-3	Spike with Pipe Clip 40 cm.	40	50	250
393-3-50B	Spike with Pipe Clip 50 cm.	50	50	200
393-3S	Spike with Pipe Clip 40 cm.	40	50	250



PVC Micro Tube (Black)

Code Number	Description	Length (meter)	Pack Size (sack)
397-3/5-100	PVC Micro Tube 3/5 mm	100	12



PVC Micro Tube (Black)

Code Number	Description	Length (meter)	Pack Size (sack)
397-5/7-100	PVC Micro Tube 5/7 mm	100	8



PVC Micro Tube (Black)

Code Number	Description	Length (meter)	Pack Size (sack)
397-12-20	PVC Micro Tube 12 mm	20	1
397-12-50	PVC Micro Tube 12 mm	50	1



PE Micro Tube (Black)

Code Number	Description	Length (meter)	Pack Size (sack)
397-PE(3/5)	PE Micro Tube 3/5 mm	100	12
397-PE(5/7)	PE Micro Tube 5/7 mm	100	8



PVC Micro Tube Flexi (Blue)

Code Number	Description	Length (meter)	Pack Size (sack)
397-PVCB(3/5)	PVC Micro Tube Flexi Blue 3/5 mm	100	12
397-PVCB(5/7)	PVC Micro Tube Flexi Blue 5/7 mm	100	8



Equipments for Mini Sprinkler, Micro Tube and PE Pipe



394-S

395-S

395-3S

395-4S

394-3S

394

395

395-3

395-4

Code Number	Description	Pack Size	
		(bag)	(box)
394-S	Straight Connector Mini-Micro 5 x 3 mm	100	-
395-S	Micro Connector 5 x 3 mm	100	-
395-3S	Micro Connector 2 Ways 5 x 3 x 5 mm	100	-
395-4S	Micro Connector 4 Ways 5 x 3 mm	100	-
394-3S	Straight Connector Mini-Micro 3 ways 5 x 5 mm	100	-
394	Straight Connector Mini-Micro 5/7 mm	500	-
395	Micro Connector 2 Ways 5/7 mm	500	-
395-3	Micro Connector 3 Ways 5/7 mm	100	-
395-4	Micro Connector 4 Ways 5/7 mm	100	-



367-1

368-1

367-2

368-2

374-2

395-F

Code Number	Description	Pack Size	
		(bag)	(box)
367-1	Valve Mini Sprinkler	100	5,000
368-1	Valve for Micro Connector	100	5,000
367-2	Valve Mini Sprinkler	100	5,000
368-2	Valve for Micro Connector	100	5,000
374-2	Sealing Valve	100	5,000
395-F	FOG Micro Connector for PE Pipe	100	5,000

Equipment for Mini Sprinkler, Micro Tube and PE Pipe



395-5



395-6



395-7



513

Code Number	Description	Pack Size	
		(bag)	(box)
395-5	Micro Connector 3 Ways 12 x 12 x 12 mm	100	1,500
395-6	Micro Connector 3 Ways 12 x 7 x 12 mm	100	1,500
395-7	Micro Tube end Plug 12 mm	100	1,500
513	Micro Tube Connector 12 mm Female Thread 3/4"	100	1,500



396



399



399-S



399-PE

Code Number	Description	Pack Size	
		(bag)	(box)
396	Mistake Plug	1	1,000
399	PE Hole Puncher	1	1,000
399-S	PE Hole Puncher with Spring	1	1,000
399-PE	PE Hole Puncher 16 , 20 mm	1	250



306-15



306-16

PVC Socket connect minisprinkler

Code Number	Size (inch)	Pack Size (bag)
306-13	1/2"	100

PVC Socket connect jetsprayer

Code Number	Size (inch)	Pack Size (bag)
306-15	1/2" (1 Hole)	100
306-16	1/2" (2 Holes)	100

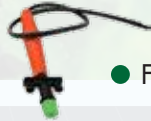




Fog Sprayer 4 Ways



Fog Head 4 Ways Set



Fog Head 1 Way Set



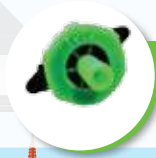
Fog Head 4 Ways Set



Fog Head 4 Ways PVC Connector

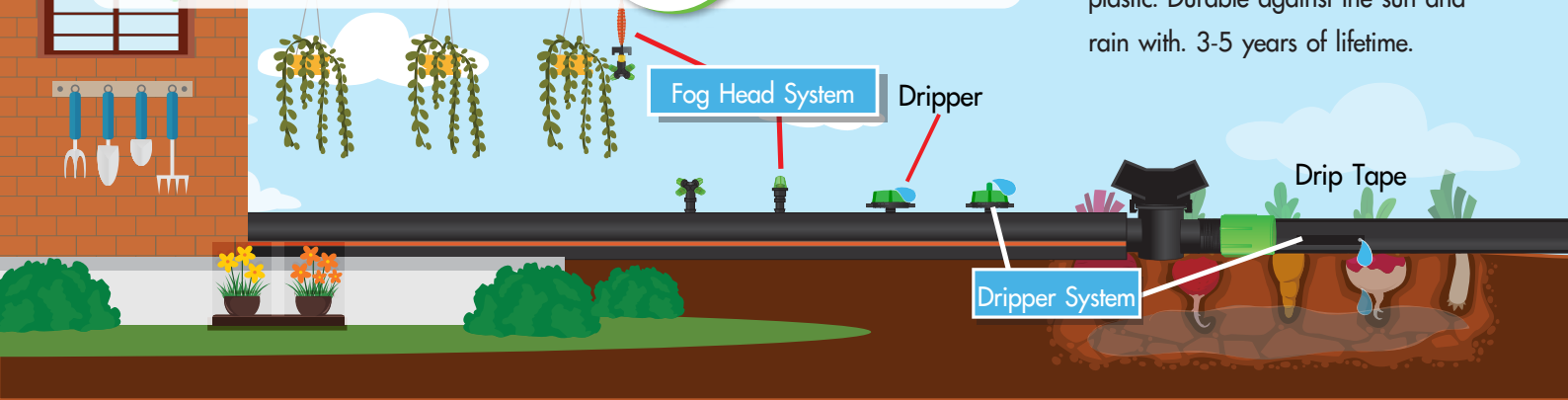


Dripper (Adjustable)



Dripper (Unadjustable)

Fog Sprayer 4 Ways provide the water volume 24-36 liters / hour (6-9 liters/hour/head). It covers to 0.5-3 meters that depends on pressure. The pressure resistant of 2-4 bar. Help to save water. Suitable with plants which needs less of water e.g. orchid, moss, fern and cultivate nursery house. Have a grille help to filter small fragments and prevent clogging. Can remove the green head to clean. Made from high quality of plastic. Durable against the sun and rain with. 3-5 years of lifetime.



Dripper Spike/ Equipment

Pipe Size : 3/5 mm

Pressure: 1.0-1.5 bars

Flow Rate: 1-2 liters/hour

The installation

The installation of Dripper Spike in the plants' baskets

Arrow Drip Elbow Spike



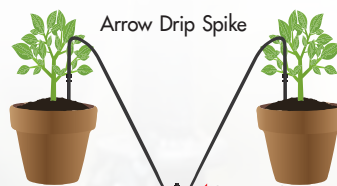
Arrow Drip Spike



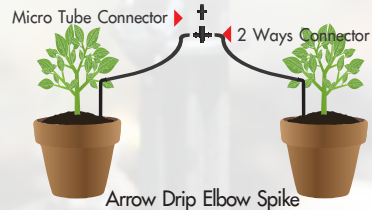
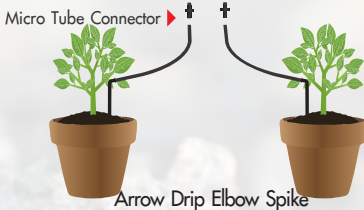
1 Way Connector with Micro Tube



2 Ways Connector



4 Ways Connector





Sprinkler

Sprinkler System means to compress the water into broken lines and turn around to the trees, vegetables, horticulture or help to reduce the temperature to cool it. Moisturize with water. Sprinkler is divided into several types depending on the plant's water requirements and the area where planted trees. Have both of short and long radius according to planting area.

PLASTIC SPRINKLER

Flow rate is about 300-900 liters of water per hour depending on the sprinkler of Flow each types. It covers 3-5 meters distance with a water pressure resistance of 1-3 bars. The sprinkler can turn around and make plants get water thoroughly.

Sprinkler Rainy



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water spread rate to suit with each kind of plants.
- Water spread out as fuzz like a raindrops.
- Some models can change to the Impact Head.



318



318-D



318-T



319-C



318-11

Code Number	Description	Flow Rate (liter : hour)	Radius (meters)	Pressure (bar)	Pack Size	
					(bag)	(box)
318	Sprinkler Female Thread				100	1,500
318-D	Sprinkler(3in1) Female Thread	300-600	3-5 Meters	1-3 Bars	100	1,500
318-T	Sprinkler 2in1 Female Thread	Depends on the Pressure			100	1,500
319-C	Sprinkler 3in1 with Pvc Socket				100	1,000
318-11	Sprinkler 2in1 + Spike				1	120

Sprinkler 2 Layers



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water spread rate to suit with each kind of plants.
- The water will come out as whirlpool overlap 2 layers.
- Can open - close or adjust the volume of water as needed.
(Mini Valve Type only)



300



300R



300-C1
300-C2



300-V1

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size (bag) (box)	
300	Sprinkler 2 Layer Female Thread	500-900 Depends on the Pressure	4-6 Meters	1-3 Bars	100	500
300R	Sprinkler 2 Layer spin Female Thread				100	500
300-C1	Sprinkler 2 Layer Socket PVC 1/2"				100	500
300-C2	Sprinkler 2 Layer Socket PVC 3/4"				100	500
300-V1	Sprinkler 2 Layer + Valve PVC 1/2"				50	250

Sprinkler 2 Layers (NUNI)



300-L



300RL



300RLC

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size (bag) (box)	
300-L	Sprinkler 2 Layer NUNI Female Thread	500-900 Depends on the Pressure	4-6 Meters	1-3 Bars	100	500
300RL	Sprinkler 2 Layer NUNI Spin Female Thread				100	500
300RLC	Sprinkler 2 Layer NUNI Socket PVC 1/2"				100	500



Sprinkler Horse



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water spread rate to suit with each kind of plants.
- The water will come out as whirlpool and the water is hurtle in higher level.
- Can open - close or adjust the volume of water as needed.
(Mini Valve Type only)



301A
301A-R



301A-C1
301A-C2



301A-V1
301A-V2



301A-V3
301A-V4



301A-1

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
301A	Sprinkler Horse Female Thread	500-900 Depends on the Pressure	4-6 Meters	1-3 Bars	100	500
301A-R	Sprinkler Horse Spin Female Thread				100	500
301A-C1	Sprinkler Horse + Socket PVC 1				100	500
301A-C2	Sprinkler Horse + Socket PVC 3/4"				100	500
301A-V1	Sprinkler Horse + Valve PVC 1/2"				50	250
301A-V2	Sprinkler Horse + Valve PVC 3/4"				50	250
301A-V3	Sprinkler Horse + Valve PVC PE 16-20 mm.				50	250
301A-V4	Sprinkler Horse + Valve PVC PE 25 mm.				50	250
301A-1	Sprinkler Horse + Spike 1/2"x5/8"x3/4"				1	120

Sprinkler Horse (NUNI)



301A-L



301A-RL

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
301A-L	Sprinkler Horse Female Thread NUNI	500-900 Depends on the Pressure	4-6 Meters	1-3 Bars	100	500
301A-RL	Sprinkler Horse Spin Female Thread NUNI				100	500

Sprinkler Elephant



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water spread rate to suit with each kind of plants.
- Sprinkler Elephant make hurtle water around the direction.
- Can open - close or adjust the volume of water as needed.
(Mini Valve Type only)



301B



301B-R



301B-C1
301B-C2



301B-V1
301B-V2



301B-V3
301B-V4



301B-1

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
301B	Sprinkler Elephant Female Thread	500-900 Depends on the Pressure	4-6 Meters	1-3 Bars	100	500
301B-R	Sprinkler Elephant Spin Female Thread				100	500
301B-C1	Sprinkler Elephant + Socket PVC 1/2"				100	500
301B-C2	Sprinkler Elephant + Socket PVC 3/4"				100	500
301B-V1	Sprinkler Elephant + Valve PVC 1/2"				100	250
301B-V2	Sprinkler Elephant + Valve PVC 3/4"				100	250
301B-V3	Sprinkler Elephant + Valve PE 16-20 mm.				50	250
301B-V4	Sprinkler Elephant + Valve PE 25 mm.				100	250
301B-1	Sprinkler Elephant + Spike 1/2"x5/8"x3/4"				1	120

Sprinkler Elephant (NUNI)



301B-L



301B-RL

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
301B-L	Sprinkler Elephant Female Thread (NUNI)	500-900 Depends on the Pressure	3-5 Meters	1-3 Bars	100	500
301B-RL	Sprinkler Elephant Spin Female Thread (NUNI)				100	500



Sprinkler 2 Ways



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
 - Various ranges of water spread rate to suit with each kind of plants.
 - The water will go out 2 way and twist with alternately beautiful.
 - Can open - close or adjust the volume of water as needed.
- (Mini Valve Type only)



302



302-R

302-C1
302-C2302-V1
302-V2302-V3
302-V4

302-1

Code Number	Description	Flow Rate (liter : hour)	Radius (meters)	Pressure (bar)	Pack Size	
					(bag)	(box)
302	Sprinkler 2 Ways Female Thread	500-900 Depends on the Pressure	4-5 Meters	1-3 Bars	100	500
302-R	Sprinkler 2 Ways Spin Female Thread				100	500
302-C1	Sprinkler 2 Ways + Socket PVC 1/2"				100	500
302-C2	Sprinkler 2 Ways + Socket PVC 3/4"				100	250
302-V1	Sprinkler 2 Ways + Valve PVC 1/2"				50	250
302-V2	Sprinkler 2 Ways + Valve PVC 3/4"				50	250
302-V3	Sprinkler 2 Ways + Valve PE 16-20 mm.				50	250
302-V4	Sprinkler 2 Ways + Valve PE 25 mm.				50	250
302-1	Sprinkler 2 Ways + Spike 1/2"x5/8"x3/4"				1	120

Sprinkler 2 Ways (NUNI)



302-RL



320-B



320-BB

Code Number	Description	Flow Rate (liter : hour)	Radius (meters)	Pressure (bar)	Pack Size	
					(bag)	(box)
302-RL	Sprinkler 2 Ways Spin NUNI Female Thread	500-900	4-5 Meters	1-3 Bars	100	500
320-B	Sprinkler CHAIYO Blue Female Thread	Depends on the Pressure			100	500
320-BB	Sprinkler CHAIYO Black Female Thread	100			500	

Sprinkler Big C



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water spread rate to suit with each kind of plants.
- Sprinkler Big C spread fuzz water around the direction.
- Can open - close or adjust the volume of water as needed.
(Mini Valve Type only)



305



304-C



304-R



304-C1
304-C2



304-1

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size (bag) (box)
305	Sprinkler Big C Spin Female Thread	500-900 Depends on the Pressure	4-5 Meters	1-3 Bars	100 500
304-C	Sprinkler Big C Short Female Thread				100 500
304-R	Sprinkler Big C Long Spin Female Thread				100 500
304-C1	Sprinkler Big C Long Spin Socket PVC 1/2"				100 500
304-C2	Sprinkler Big C Long Spin Socket PVC 3/4"				100 500
304-1	Sprinkler Big C Long Spin + Spike 1/2"x5/8"x3/4"				1 120

Sprinkler Big C (NUNI)



304-RL

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size (bag) (box)
304-RL	Sprinkler Big C Long Spin Female Thread	500-900 Depends on the Pressure	4-5 Meters	1-3 Bars	100 500



Sprinkler NIKKO



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water spread rate to suit with each kind of plants.
- The water will go out 2 ways with make water out to high and alternately beautiful.
- Model 324-1 can change pattern of water.
- Can open - close or adjust the volume of water as needed.

(Mini Valve Type only)



320-1

320-5
320-6320-7
320-8

320-11



New

324-1

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
320-1	Sprinkler NIKKO 2 in 1 Female Thread	500-900 Depends on the Pressure	4-6 Meters	1-3 Bars	100	500
320-5	Sprinkler NIKKO 2 in 1 + Valve PVC 1/2"				50	250
320-6	Sprinkler NIKKO 2 in 1 + Valve PVC 3/4"				50	250
320-7	Sprinkler NIKKO 2 in 1 + Valve PE 16-20 mm.				50	250
320-8	Sprinkler NIKKO 2 in 1 + Valve PE 25 mm.				50	250
320-11	Sprinkler NIKKO 2 in 1 + Spike 1/2"x5/8"x3/4"				1	120
324-1	Sprinkler NIKKO 4 in 1 Female Thread				100	500

Sprinkler NIKKO



320-3

320-C1
320-C2320-V1
320-V2320-V3
320-V4

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
320-3	Sprinkler NIKKO Spin Female Thread	500-900 Depends on the Pressure	4-6 Meters	1-3 Bars	100	250
320-C1	Sprinkler NIKKO Spin + Socket 1/2"				100	500
320-C2	Sprinkler NIKKO Spin + Socket 3/4"				100	500
320-V1	Sprinkler NIKKO Spin + Valve PVC 1/2"				50	250
320-V2	Sprinkler NIKKO Spin + Valve PVC 3/4"				50	250
320-V3	Sprinkler NIKKO Spin + Valve PE 16-20 mm.				50	250
320-V4	Sprinkler NIKKO Spin + Valve PE 25 mm.				50	250

Sprinkler NIKKO



317-N



317-NPVC1
317-NPVC2



317-NPE20
317-NPE25

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
317-N	Sprinkler NIKKO Female Thread				100	500
317-NPVC1	Sprinkler NIKKO + Valve PVC 1/2"	500-900	4-6	1-3 Bars	50	250
317-NPVC2	Sprinkler NIKKO + Valve PVC 3/4"	Depends on the Pressure	Meters		50	250
317-NPE20	Sprinkler NIKKO + Valve PE 16-20 mm.				50	250
317-NPE25	Sprinkler NIKKO + Valve PE 25 mm.				50	250

Sprinkler NIKKO CHAIYO



320-A



320-AB

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
320-A	Sprinkler CHAIYO Female Thread	500-900	4-6	1-3 Bars	100	500
320-AB	Sprinkler CHAIYO Female Thread	Depends on the Pressure	Meters		100	500

Sprinkler Anti-Insect



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.

- Made from high quality of plastic.
- Various ranges of water spread rate to suit with each kind of plants.
- The water that affects the leaves, will make water spread out around the direction.
- Protect the insects get into the hole and will close in automatically while stopped.



318-A











318-B

Code Number	Description	Flow Rate (liters : hour)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
318-A	Sprinkler Insects Protection Male Thread	100-250	3-6	1-3 Bars	100	1500
318-B	Sprinkler Insects Protection Connect Micro Tube	Depends on the Pressure	Meters		100	1500



Sprinkler CHAMP

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pack Size	
				(bag)	(box)
 301-CP 	Sprinkler CHAMP Female Thread	500-900	4-6	100	500
 301-CP1 	Sprinkler CHAMP Stainless Bush Female Thread	500-900	4-6	100	500
 302-CP 	Sprinkler CHAMP Two-way Female Thread	500-900	4-5	100	500
 302-CP1 	Sprinkler CHAMP Two-way Stainless Bush Female Thread	500-900	4-5	100	500



Stainless Sprinkler

The blade of Stainless Sprinkler is made of stainless steel. Can use pliers to curvebend to adjust the water direction as needed. Water volume of 500-900 liters per hour by radius 3-5 meters coverage.

Stainless Sprinkler



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Various ranges of water spread rate to suit with each kind of plants.
- The water that affects the leaves, will make water spread out around the direction.
- Can use pliers to curve-bend to adjust the water direction as needed.



303



303-R



303-C1
303-C2



303-V1
303-V2



303-V3
303-V4



303-1

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size (bag)	Pack Size (box)
303	Sprinkler Stainless Female Thread	500-900 Depends on the Pressure	4-6 Meters	1-3 Bars	100	500
303-R	Sprinkler Stainless Spin Female Thread				100	500
303-C1	Sprinkler Stainless Spin + Socket PVC 1/2"				100	500
303-C2	Sprinkler Stainless Spin + Socket PVC 3/4"				100	500
303-V1	Sprinkler Stainless Spin + Valve PVC 1/2"				50	250
303-V2	Sprinkler Stainless Spin + Valve PVC 3/4"				50	250
303-V3	Sprinkler Stainless Spin + Valve PE 16-20 mm.				50	250
303-V4	Sprinkler Stainless Spin + Valve PE 25 mm.				50	250
303-1	Sprinkler Stainless Spin + Socket 1/2"x5/8"x3/4"				1	120

Sprinkler Stainless (NUNI)



303-L



303-RL



303-RLC

Code Number	Description	Flow Rate (liter : hour)	Radius (meter)	Pressure (bar)	Pack Size (bag)	Pack Size (box)
303-L	Sprinkler Stainless NUNI Female Thread	500-900	3-5 Meters	1-3 Bars	100	500
303-RL	Sprinkler Stainless NUNI Spin Female Thread	Depends on the Pressure			100	500
303-RLC	Sprinkler Stainless NUNI Spin + Socket PVC 1/2"	100			500	



Impact Sprinkler

Impact Sprinkler can shoot water near - far with adjustable the distance and strength of water. Sprinkler can bounce and rotate around to get water in the area throughly. Suitable for lawns.

Impact Sprinkler NAN (Water Hole 3 mm.)



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Can shoot of water in 2 ways.
- Adjust the water force as strength - light or near - far.
- Sleeve of Sprinkler will hit the water spread.



Code Number	Description	Flow Rate (liter : minute)	Radius (meter)	Pressure (bar)	Pack Size (bag) (box)	
313	Impact Sprinkler Male Thread 1/2"	11-17 Depends on the Pressure	Covers 9-12 Meters	2-4 Bars	1	400
313-B	Impact Sprinkler Male Thread 3/4"				1	400
314	Impact Sprinkler Female Thread 3/4"				1	300
313-C	Impact Sprinkler Spin Socket PVC 1/2"				1	300
313-11	Impact Sprinkler + Spike 1/2"x5/8"x3/4"				1	150
330	Impact Sprinkler Male Thread 1/2"				1	400

Impact Sprinkler CHAIYO NAN Adjustable



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Can shoot of water in 2 ways.
- Adjust the water force as strength - light or near - far.
- Can be shoot 360 degrees (angle lock)
- Sleeve of Sprinkler will hit the water spread.



313-R



313R-11

Code Number	Description	Flow Rate (liter : minute)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
313-R	Impact Sprinkler Adjustable Male Thread	8-12	Covers 10-13 Meters	2-4 Bars	1	300
313R-11	Impact Sprinkler Adjustable + Spike				1	100

Impact Sprinkler CHAIYO NAN (Water Hole 4 mm.)



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Can shoot of water in 2 ways.
- Adjust the water force as strength - light or near - far.
- Can be shoot 360 degrees.
- Sleeve of Sprinkler will hit the water spread.



314-M



314M-11

Code Number	Description	Flow Rate (liter : minute)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
314M	Impact Sprinkler Male Thread	20-35	Covers 10-14 Meters	2-5 Bars	1	300
314M-11	Impact Sprinkler Male Thread with Spike				1	100



Impact Sprinkler CHAIYO NAN (Water Hole 5 mm.)



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.



- Made from high quality of plastic.
- Can shoot of water in 2 ways.
- Adjust the water force as strength - light or near - far.
- Can be shoot 360 degrees.
- Sleeve of Sprinkler will hit the water spread.



315



316



315-1

Code Number	Description	Flow Rate (liter : minute)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
315	Impact Sprinkler Male Thread	25-60	Covers 5-20 Meters	2-5 Bars	1	100
316	Impact Sprinkler Female Thread				1	100
315-1	Impact Sprinkler Male Thread with Spike				1	50

Sprinkler Two - Way Long Range



Suitable for watering plants that need to control the amount of water in kind of horticultures, vegetables and seedlings.























- Made from high quality of plastic.
- Can shoot of water in 2 ways.
- Adjust the water force as strength - light or near - far.
- Can be shoot 360 degrees.



313-2W





Code Number	Description	Flow Rate (liter : minute)	Radius (meter)	Pressure (bar)	Pack Size	
					(bag)	(box)
313-2W	Sprinkler Two way Long Range	4-10	5-7Neters	1-3	1	5

Impact Sprinkler











	Code Number	Description	Flow Rate (liter : minute)	Diameter (meter)	Pack Size (bag) (box)	
	314-R 	Impact Sprinkler Adjustable Female Thread 3/4"	18-61	12-18	1	1
	314-T 	Impact Sprinkler Female Thread 3/4"	7-19	7-10	1	1
	315-OR 	Impact Sprinkler Male Thread Orange 3/4"	15-32	12-19	1	1
	315-RP 	Impact Sprinkler Adjustable Male Thread 3/4"	11-41	13-15	1	1
	316-2 	Impact Sprinkler Adjustable Female Thread 1"	40-115	20-25	1	1
	316-3 	Impact Sprinkler 3 Nozzles Female Thread 1"	50-86	14-18	1	1
	316-4 	Impact Sprinkler 4 Nozzles Female Thread 1"	53-100	14-18	1	1
	316-5 	Impact Sprinkler 5 Nozzles Female Thread 1"	55-108	14-18	1	1
	316-R 	Impact Sprinkler Female Thread 1"	25-38	12-18	1	1
	316-OR 	Impact Sprinkler Male Thread Orange 1"	15-32	12-19	1	1





Sprinkler Spin

	Code Number	Description	Flow Rate (liter : minute)	Radius (meter)	Pack Size	
					(bag)	(box)
	313-J1 	Sprinkler Spin Male Thread 1/2"	0.35-0.6	5.8-10	1	300
	313-J2 	Sprinkler Spin Male Thread 1/2"	0.38-0.7	6.3-11.6	1	300

Impact Sprinkler Aluminium/brass

	Code Number	Description	Flow Rate (liter : minute)	Radius (meter)	Pack Size	
					(bag)	(box)
	315-RB 	Impact Sprinkler Brass Male Thread 3/4"	38.3-46.6	13-15	1	1
	316-AL 	Impact Sprinkler Aluminium Female Thread 1"	57.1-124	15-20	1	1
	316-ALB 	Impact Sprinkler Aluminium Spin Female Thread 1"	16.6-61.6	12-17	1	1
	316-ALR 	Impact Sprinkler Aluminium Spin Female Thread 1 1/2"	50-341.6	15-30	1	1
	323-ALB 	Impact Sprinkler Adjustable Aluminium Female Thread 1 1/2"	50-341.6	15-30	1	1

Impact Sprinkler Adjustable Aluminium

	Code Number	Description	Flow Rate (liter : minute)	Radius (meter)	Pack Size	
					(bag)	(box)
 	323-AL	Female Thread 1 1/2"	116-150	20-25	1	2
	333-AL	Female Thread 2"	233-283	25-30	1	2
	334-AL	Female Thread 2 1/2"	400-466	30-35	1	2

Gardening tools

Gardening need to require the tools for home use. For the convenience and not to hire a gardener, we need some Gardening Tools for using e.g. Automatic Watering Timer for plants, Sprinkler Field, Pruning Shears that can help to for gardening.



Sprinkler Field and Tools

Sprinkler Field has a beautiful of shape and watering. Suitable for garden decoration or can be used as a fountain.

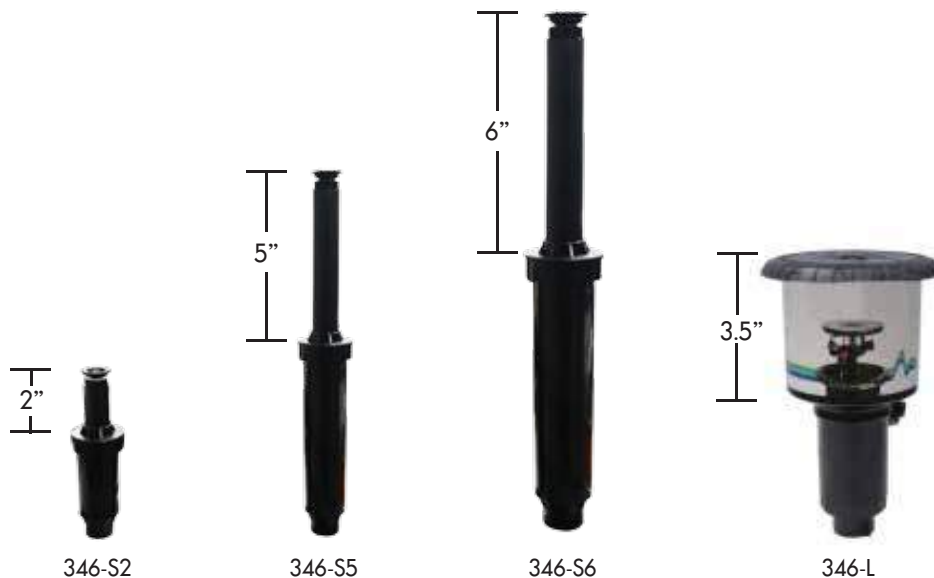


- Adjustable the degree of water distribution 25-360 degrees.



- Filter of Sprinkler Field help to reduce the sediment clogged in head of sprinkler.

Female Thread Connector 1/2"



SPRINKLER POP UP

Code Number	Height Size		Flow rate (lite/min)				radius (meters)				Pack Size (bag)
	(inch)	(inch)	1.5	2.0	3.0	3.5	1.5	2.0	3.0	3.5	
346-S2 (Small Injection Mold)	2"	1/2"	10	12	14	16	1.75	2.0	2.1	2.25	1
346-S5 (Small Injection Mold)	5"	1/2"	10	12	14	16	1.75	2.0	2.1	2.25	1
346-S6 (Small Injection Mold)	6"	1/2"	10	12	14	16	1.75	2.0	2.1	2.25	1
346-L (Big Injection Mold)	3.5"	3/4"	11	14.5	16.5	17	10.5	11.0	12.0	12.5	1



345-2



345-4



345-2F



345-2P



345-2FF

Sprinkler 2 Arms

Code Number	Description	Size (inch)	Pack Size (box)
345-2	Sprinkler 2 Arms Male Thread	1/2"	100
345-4	Sprinkler 2 Arms + Female Thread	3/4", 1/2"	100
345-2F	Sprinkler 2 Arms + Spike	1/2", 5/8", 3/4"	1
345-2P	Sprinkler 2 Arms Yard	1/2", 5/8", 3/4"	30
345-2FF	Sprinkler 2 Arms + Spike 30 cm.	1/2", 5/8", 3/4"	30



345-3



345-5



345-3F



345-3P

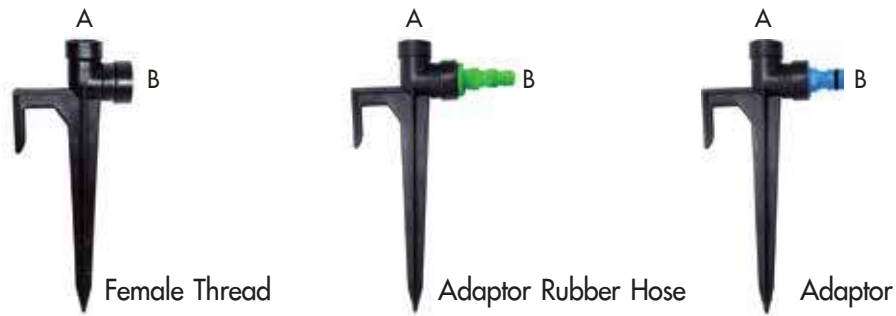


345-3FF

Sprinkler 3 Arms

Code Number	Description	Size (inch)	Pack Size (box)
345-3	Sprinkler 3 Arms Male Thread	1/2"	100
345-5	Sprinkler 3 Arms + Female Thread	3/4", 1/2"	100
345-3F	Sprinkler 3 Arms + Spike	1/2", 5/8", 3/4"	1
345-3P	Sprinkler 3 Arms Yard	1/2", 5/8", 3/4"	30
345-3FF	Sprinkler 2 Arms + Spike 30 cm	1/2", 5/8", 3/4"	30





Spike with Female Thread

Code Number	Size Female Thread A (inch)	Size with Connector B	Package (sack)
344-01	1/2"	female thread 1/2"	100
344-02	3/4"	female thread 1/2"	100
344-03	3/4"	female thread 3/4"	100
344-02+1	1/2"	adaptor rubber hose 1/2",3/4",5/8"	100
344-03+1	3/4"	adaptor rubber hose 1/2",3/4",5/8"	100
344-02+2	1/2"	adaptor	100
344-03+2	3/4"	adaptor	100



Spike with Male Thread

Code Number	Size Male Thread A (inch)	Size with Connector B (inch)	Package (sack)
344-04	Male Thread 3/4" and Female Thread 1/2"	Female Thread 3/4"	100
344-50+1	Male Thread 1/2"	Adaptor Rubber Hose 1/2",3/4",5/8"	100
344-04+1	Male Thread 3/4" and Female Thread 1/2"	Adaptor Rubber Hose 1/2",3/4",5/8"	100
344-50+2	Male Thread 1/2"	Adaptor	100
344-04+2	Male Thread 3/4" and Female Thread 1/2"	Adaptor	100



344-H



344-L

Spike with Pipe Wear

Code Number	Pipe Wear (inch)	Description	Pack Size (sack)
344-H	1/2"	Adaptor Rubber Hose 1/2", 3/4", 5/8"	250
344-L	1/2"	Adaptor	250

Sprinkler Tube With Male Thread



Code Number	Size (bundle)	Long (cm.)	Pack Size (bunch)
308	1/2"	30	20

Yard (Use with Sprinkler's Spike)



Code Number	Pack Size (box)
3300	50

Set Valve Adaptor



Code Number	Size (inch)	Pack Size (bag)
390	3/4"	1
391	1"	1

Hanger



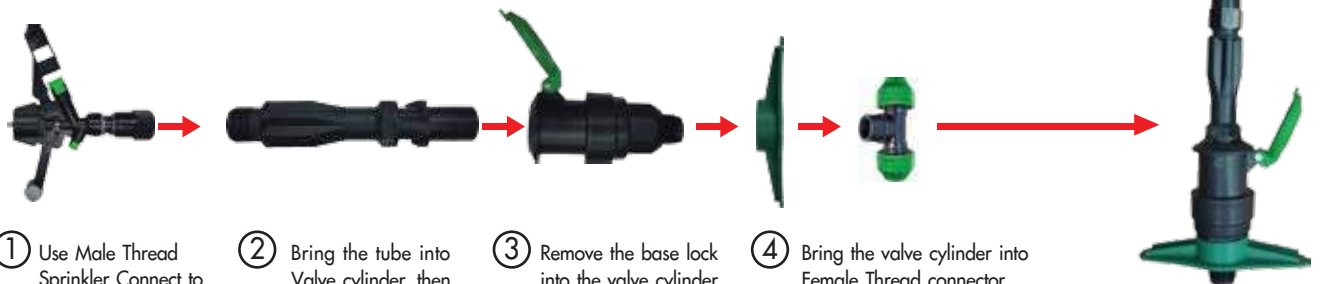
Code Number	Pack Size (bag)
282	1



TIPS

How to use the Valve Adaptor Set

Use Valve Adaptor Set as the valve instead. The water is shut off immediately after removing the stem of valve. For easily to move, sprinkler head is used with stem of Valve Adaptor Set.



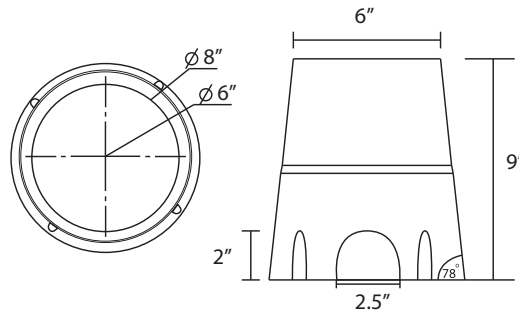
① Use Male Thread Sprinkler Connect to Stem of Valve Adaptor Set

② Bring the tube into Valve cylinder. then rotate by cock wise.

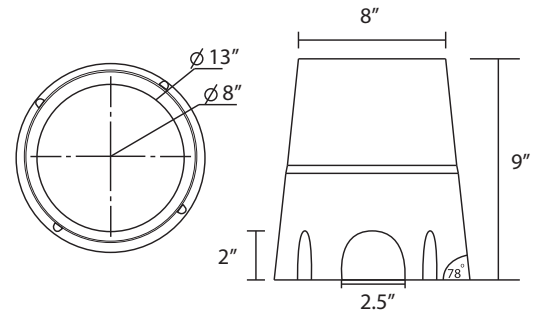
③ Remove the base lock into the valve cylinder

④ Bring the valve cylinder into Female Thread connector





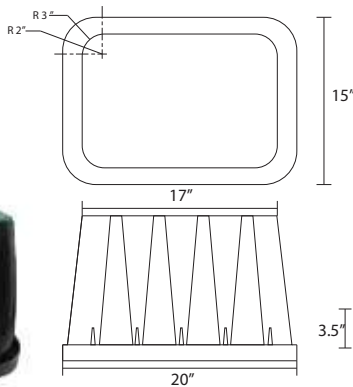
3TB006



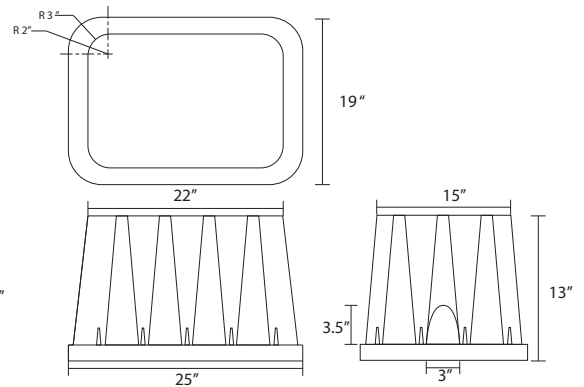
3TB008

Box Valve with Circle Shape

Code Number	Size (inch)	Pack Size (box)
3TB006	6"	1
3TB008	8"	1



3TB020



3TB025

Box Valve with Square Shape

Code Number	Size (inch)	Pack Size (box)
3TB020	15"x20"x13"	1
3TB025	19"x25"x13"	1



TIPS

How to use the Valve Box

Valve Box made of high quality of plastic, Grade A, strong and durable with round and square shape. Can be used to suit the size and number of valves. The top cover can be opened for inspection or repair the valve installed underground easily.

Bibcock and Adaptor



PVC Fancy Bibcock

Code Number	Color	Size (inch)	Pack Size (box)
52-201PFB	Bibcock Fancy Body Color	1/2"	12
52-202PFB	Bibcock Fancy Body Color	3/4"	12
52-201PFH	Bibcock Fancy Handle Color	1/2"	12
52-202PFH	Bibcock Fancy Handle Color	3/4"	12



Bibcock PVC

Code Number	Color	Size (inch)	Pack Size (box)
52-201PW	Blue	1/2"	12
52-202PW	Blue	3/4"	12
52-201PC	Clear	1/2"	12
52-202PC	Clear	3/4"	12





Bibcock PVC RED HAND

Code Number	Category	Size (inch)	Pack Size (box)
5-TP-15	PVC Bibcock Ball Valve	1/2"	12
52-101	Bibcock Ball Valve Slim	1/2"	20
52-102	Bibcock Ball Valve Slim	3/4"	12
52-201	Bibcock Ball Valve	1/2"	12
52-202	Bibcock Ball Valve	3/4"	12
52-201S	Bibcock Ball Valve	1/2"	12
52-202S	Garden Bibcock	3/4"	12





510



511



512



510-L



510-LR

Adaptor Hose

Code Number	Size (inch)	Pack Size (bag)
510	1/2", 5/8", 3/4"	1
511	1/2", 5/8", 3/4"	30
512	1/2", 5/8", 3/4"	10

Quick Coupling Lock For Garden Hose

Code Number	Pack Size (panel)
510-L	1
510-LR (With Tongue for Water Closing)	1



510-A



510-B



510-D



510-I



510-E



510-H



510-F



510-G



510-K



510-J

Tap Connector Hose Connector

Code Number	Description	Pack Size (box)
510-A	Male Thread 3/4" Connector Hose 1/2", 5/8", 3/4"	10
510-B	Male Thread 3/4" V1/2", 5/8", 3/4" + Jointly	10
510-D	Female Thread 3/4" Connector PE 16,20,25 mm.	5
510-I	Female Thread (Spiral) 3/4" Connector PE 16,20,25 mm.	10
510-E	Garden Bibcock Connector PE 16,20,25 mm.	5
510-H	Male Thread 3/4" Adaptor	10
510-F	Female Thread (Spiral) 3/4" Adaptor	10
510-G	Round Tap Adaptor	5
510-K	Garden Bibcock 3/4" Connect Micro Tube 5/7 mm.	10
510-J	Garden Bibcock 3/4" Connect Micro Tube 5/7 mm.	5



Pruning Shears



Pruning Shears “RED HAND” with handles easy to use, strong and durable of blade and legs lock any models.



8-303-A



8-301



8-322



8-319

Pruning Shears Cut PE and PVC

Code Number	Blade	Size (mm.)	inch	Pack Size (box)
8-303-A	Pruning Shears	32	1”	1
8-301	Pruning Shears	42	1 1/4”	1
8-322	Pruning Shears	42	1 1/4”	1
8-319	Pruning Shears	63	2”	1



8-807-A



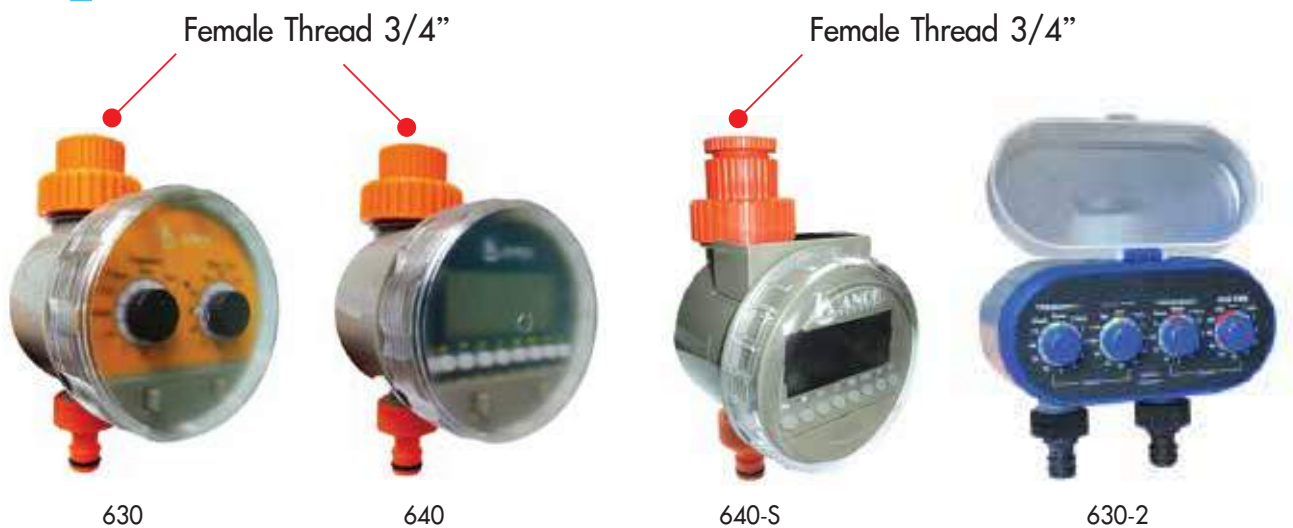
8-807-D

Pruning Shear - Stainless Steel Blade

Code Number	Blade	Pack Size (box)
8-807-A	Curved	1
8-807-D	Straight	1

Automation System

The advantages of Automation System are easy to install, easy to move, no need to have knowledge of electrical system can be installation. Should be installed in the shade, it will help to extend the lifetime.



Automatic watering timer

Code Number	Generation	Installation Method	Pack Size (box)
630	Analog	Set time to water 1-120 minutes 1 hour to 1 week.	1
640	Digital	Can set time to water at 12 programs and Set time to water 1 minute to 8 hours	1
640-S	Digital + Solar cell	Can set time to water at 12 programs and Set time to water 1 minute to 8 hours	1
630-2	Analog 2 Station	Set time to water 1-120 minutes 1 hour to 1 week.	1



TIPS

How to install TIMER

If used with the water supply system before the TIMER, need to turn on the water and wash the pipe or adhesive from the pipe. use TIMER with Bibcock Field Male Thread 3/4 "

If used with the water from the pond, need to install a Strainer (Fine Filter) before the machine. It helps to reduce the blockage. After installed, should turn the front cover closed for prevent the leakage of water into machine.



Free Connector
510-D and 510-F



Timer 4/6/8 Station



Code Number	special feature	Pack Size (box)
600-4	4 Stations	1
600-6	6 Stations	1
600-8	8 Stations	1

- Can be used with Solenoid Valves. Rain Gauge Sensor and Soil Humidity Meter Gauge
- Program Automation is easy to use 4-8 programs.
- Use two AAA Batteries internally
- AC 24 V Power Supply

Rain Gauge Sensor



Code Number	Pack Size (box)
600-R	1

- Rain Gauge Sensor is to command the control box not to watering on a rainy day in excess of the set amount of water volume
- Can be adjust the rainfall levels 3,6,12,19,25 mm.
- 5 m. of cable length
- No batteries required
- Compatible with the control boxes in model of 600-4, 600-6, 600-8

Soil Humidity Meter Gauge



Code Number	Pack Size (box)
600-M	1

- Soil Humidity Meter Gauge is to command the control box not to watering, if the soil moisture is high
- Can be adjust the soil humidity levels to 25%, 45%, 65%
- 5 m. of cable length
- Use two AAA Batteries internally
- Compatible with the control boxes in model of 600-4, 600-6, 600-8

Solenoid Valve



Code Number	Size (inch)	Voltage (V)	Pack Size (box)
666-1	Female Thread 3/4"	AC 24	10
666-2	Female Thread 1"	AC 24	10

Series Product

Series Products are selected products as appropriate usage, easy to install, ready to use, all products are packed in beautiful outer box with assembly manual in completely.



Series Products is consists of :-



Eazy Grow Series

1. 3/4 "Threaded Studs - 12mm Micro Tube 1 pc.
2. Rubber Thread with a Strap 1 pc.
3. Micro Tube 12mm 50 m. 1 roll.
4. Micro Tube 7mm 20 m. 1 roll.
5. Pipe Tape 1 pc.
6. T Coupling 12x7x12 mm 12 pcs.
7. T Coupling 12x12x12 mm. 1 pc.
8. Mini Sprinkler D with Valve 12 pcs.
9. 12mm Micro Tube End Clamp 2 pcs.
10. Spike 12 pcs.

Eazy Grow Timer Series

1. 3/4 "Threaded Studs - 12mm Micro Tube 1 pc.
2. Rubber Thread With a Strap 1 ps.
3. Micro Tube 12mm 50 m. 1 roll.
4. Micro Tube 7mm 20m. 1 roll.
5. Pipe Tape 1 pc.
6. T Coupling 12x7x12 mm 12 pcs.
7. T Coupling 12x12x12 mm. 1 pc.
8. Mini Sprinkler D with Valve 12 pcs.
9. 12mm Micro Tube End Clamp 2 pcs.
10. Spike 12 pcs.
11. Timer 1 pc.

Series Spike for Mini Sprinkler

Code Number	Description
9012-L	Eazy Grow
9012-LT	Eazy Grow+Timer



Series Products is consists of :-



Eazy Grow Series

1. 3/4 "Threaded Studs - 12mm Micro Tube 1pc
2. Rubber Thread with a Strap 1 pc.
3. Micro Tube 12mm 50 m. 1 roll.
4. Micro Tube 7mm 20 m. 1 roll.
5. Pipe Tape 1 pc.
6. T Coupling 12x7x12 mm 12 pcs.
7. T Coupling 12x12x12 mm. 1 pc.
8. Single Side Spray Nozzles, 3-5 mm Upside Down 12 pcs.
9. Nozzles Spray Nozzles one side up to 3-5 mm. 12 pcs.
10. Buttery Nozzle Spray 3-5 mm. 12 pcs.
11. 12mm Micro Cable End 2 pcs.
12. Spike 12 pcs.

Eazy Grow Timer Series

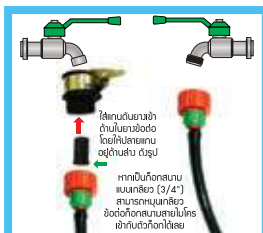
1. 3/4 "Threaded Studs - 12mm Micro Tube 1pc
2. Rubber Thread with a Strap 1 pc.
3. Micro Tube 12mm 50 m. 1 roll.
4. Micro Tube 7mm 20 m. 1 roll
5. Pipe Tape 1 pc.
6. T Coupling 12x7x12 mm 12 pcs.
7. T Coupling 12x12x12 mm. 1 pc.
8. Single Side Spray Nozzles, 3-5 mm Upside Down 12 pcs.
9. Nozzles Spray Nozzles one side up to 3-5 mm. 12 pcs.
10. Buttery Nozzle Spray 3-5 mm. 12 pcs.
11. 12mm Micro Cable End 2 pcs.
12. Spike 12 pcs.
13. Timer 1 pc.



Series Spike for Sprayer

Code Number	Description
9013-L	Eazy Grow
9013-LT	Eazy Grow+Timer

How to installation



1. Connect the faucet to the eld faucet connector and connect its into the Micro Tube as shown on picture



2. Turn the spiral inwards until the end and insert the 12mm. Micro Tube into the connector inwards until the end Turn the spiral around and tighten the cover up micro tube to prevent the water leakage



3. Connect Mini Sprinkler with Connecor and insert with 7 mm. Micro Tube into Rainbird Leg



4. Connect 7 mm. Micro Tube to the Connecor and compatible with Tee Connector Micro Tube 12x7x12 mm.



5. Close the end of the water system with the stopper (No.9), check the end of the tube to the stopper and tighten by turning spiral.

ไขว้โย ขาปัทน้ำหยดและข้อต่อระบบน้ำหยด
Drip arrow and drip connector 1 ชุด
1 Set including with. ประกอบด้วย

ขาปัทน้ำหยดแบบตรง
Code:371-3
Straight drip
Micro tube Size : 3/5 mm.
Pressure: 1.0-1.5 bar
Flowrate : 1-2 Liter/hr.

ขาปัทน้ำหยดแบบโค้ง
Code:371-3
Curve drip arrow
Micro tube Size : 3/5 mm.
Pressure: 1.0-1.5 bar
Flowrate : 1-2 Liter/hr.

ข้อต่อมินิสปริงเกอร์
Code:394-S
Size : 5x3 มม.

ข้อต่อ 4 ทิศ
Code:395-4S
Size : 5x3 มม.

ข้อต่อ 3 ทิศ
Code:395-3
Size : 5x7 มม.

ข้อต่อคอกเนบิว
Universal tap adaptor
Pressure: 5/7 มม.

สายไมโคร
Micro tube
Size : 3/5 มม.

สายไมโคร
Micro tube
Size : 5/7 มม.

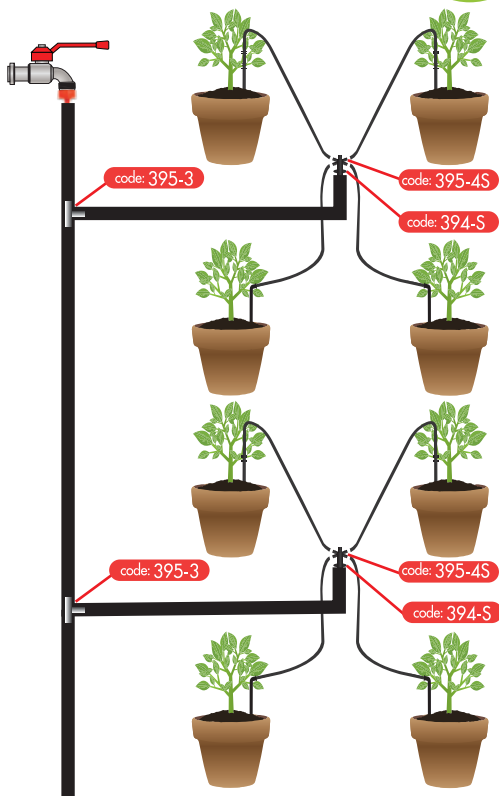
ไขว้โย ชุดขาปัทน้ำหยด
เลือกคุณภาพ เลือก “ไขว้โย”

Drip Arrow set Straight/Curve
ขาปัทน้ำหยดแบบตรง/โค้ง

Micro tube Size : 3/5 mm.
Pressure: 1.0-1.5 bar
Flowrate : 1-2 Liter/hr.

Best quality for agriculture and
a irrigation products.

How to installation **ไขว้โย**



Series Products is consists of :-



Dripper Spike Series

Code Number	Description
9016-2	Curve Drip
9016-3	Straight Drip and Curve Drip Arrow
9016-3S	Straight Drip and Curve Drip Arrow (Small set)

9016-2

- 1. Straight Connector Mini Sprinkler 15 Pcs.
- 2. 4 Ways Connector PE 5 Pcs.
- 3. Tee Connector PE 10 Pcs.
- 4. Micro Tube Connector 10 Pcs.
- 5. Micro Tube 3/5 100 m.
- 6. Arrow Drip Elbow Spike 50 Pcs.

9016-3

- 1. Straight Connector Mini Sprinkler 30 Pcs.
- 2. 4 Ways Connector PE 10 Pcs.
- 3. Tee Connector PE 20 Pcs.
- 4. Micro Tube Connector 20 Pcs.
- 5. Micro Tube 3/5 100 m.
- 6. Arrow Drip Elbow Spike 50 Pcs.
- 7. Arrow Drip Straight Spike 50 Pcs.

9016-3S

- 1. Straight Connector Mini Sprinkler 5 Pcs.
- 2. 4 Ways Connector PE 5 Pcs.
- 3. Tee Connector PE 4 Pcs.
- 4.1.Round Tap Adaptor PE 1 Pc.
- 5. Micro Tube 3/5 10 m.
- 5.1.Micro Tube 5/7 15 m.
- 6. Arrow Drip Elbow Spike 10 Pcs.
- 7. Arrow Drip Straight Spike 10 Pcs.





9015-S1

- 1. Fogger 8 pcs.
- 2. T Coupling 7 psc.
- 3. Micro Tube Connector 1 pc.
- 4. Round Tap Adaptor PE 1 Pc.
- 5. Micro Tube 5/7 mm. 15 m.
- 6. Cable Tie 15 lines

9015-S4

- 1.1. 4-way Fogger 4 psc.
- 2. T Coupling 3 psc.
- 3. Micro Tube Connector 1 pc.
- 4. Round Tap Adaptor PE 1 Pc.
- 5. Micro Tube 5/7 mm. 10 m.
- 6. Cable Tie 10 lines



Series Fogger

Code Number	Description
9015-S1	1-Way Fog Head
9015-S4	4-Way Fog Head

How to installation



1. Connect the Fasten Connector with the Bibcock and connect the Micro Tube.



2. Connect the T Coupling to the Micro Tube.



3. Connect the Fogger with T Coupling and measure the distance to put the Fogger.



4. Open the end of the pipe with connected and connected to the Fogger.

Series Products



Sample of Packaging



Sample of Irrigation



300-C1L



313-CL



345-2CL



345-3CL

Sprinkler Field 3 Leg

Code Number	Sprinkler	Pack Size (box)
300-C1L	Sprinkler 2 layers	1
313-CL	Sprinkler NAN	1
345-2CL	Sprinkler Field 2 Arms	1
345-3CL	Sprinkler Field 3 Arms	1

 TIPS

Series Product

Series Product is consists of accessories with providing its accessories for easy installation. If the customer needs more accessories, can be also purchasing by separately.





Sample of Packaging



Field Sprinkler Installation Set - PVC Pipe

1. Can be adjustable height into 3 levels : 20 Cms., 30 Cms. and 50 Cms.
2. Sprinkler Head is divided into 2 Types :-
 - 2.1 Sprinkler NAN can be water shoot 9-15 meters and can be adjustable the direction of water injection.
 - 2.2 Stainless Sprinkler is 3-5 meters of water radius.

Series Product is consists of :-

1. PVC Stand (Completed Assembly)
2. PVC Pipe Male Thread (Short) - Male Thread Height 30 Cms.
3. PVC Pipe Male Thread (Short) - Female Thread Height 20 Cms.
4. Sprinkler CHAYO NAN (adjustable Radius)
5. Stainless Sprinkler (Turn around)
6. Pipe Tape
7. Hose Coupling in size 3/8", 1/2", 3/4"

Sprinkler Field - PVC Pipe

Code Number	High (cm.)	Pack Size (bag)
9001	20-50	1

PVC Pipe and Pipe Fitting

PVC Pipes have been known for over 20 years and are now widely known and used. Until the Thai Industrial Standards Institute (TISI), Ministry of Industry has set the Standard of PVC Pipeline by separation of colors according to application. The Electrical Conduit and Telephone Wire (TIS 216-2524) are designated as Primerose Color. For consumer use as a drinking water pipe (TIS 17-2523) is designated as Arctic Blue Color. For industrial and irrigation uses (TIS 999-2533) are designated as Gray Color.



RED HAND PVC Pipe



วท. 17-2532

Produced by using specialty Grade A of raw material, TIS 17-2532 Certified. Durable, good resistance to press force and pressure. Contain UV Protection from sunlight, resistance to acid and alkaline conditions. It can be used as a water pipe.



Nominal Size Inch (mm.)	Thickness Class 5	Thickness Class 8.5	Thickness Class 13.5	Quantity (Pieces/ Bundle)	Bell Charge (baht/pc.)
	Code Number	Code Number	Code Number		
1/2" (18)		56-8.5(1/2")	56-13.5(1/2")	25	1
3/4" (20)		56-8.5(3/4")	56-13.5(3/4")	25	1
1" (25)		56-8.5(1")	56-13.5(1")	20	2
1 1/4" (35)	56-5(1 1/4")	56-8.5(1 1/4")	56-13.5(1 1/4")	10	2
1 1/2" (40)	56-5(1 1/2")	56-8.5(1 1/2")	56-13.5(1 1/2")	10	2.5
2" (55)	56-5(2")	56-8.5(2")	56-13.5(2")	10	3
2 1/2" (65)	56-5(2 1/2")	56-8.5(2 1/2")	56-13.5(2 1/2")	1	4
3" (80)	56-5(3")	56-8.5(3")	56-13.5(3")	1	5
4" (100)	56-5(4")	56-8.5(4")	56-13.5(4")	1	6
5" (125)	56-5(5")	56-8.5(5")	56-13.5(5")	1	8
6" (150)	56-5(6")	56-8.5(6")	56-13.5(6")	1	18
8" (200)	56-5(8")	56-8.5(8")	56-13.5(8")	1	35

CHAMP PVC Pipe



Size Inch (mm.)	Thickness Class 5	Thickness Class 8.5	Quantity (Pieces/ Bundle)	Bell Charge (baht/pc.)
	Code Number	Code Number		
1/2" (18)		58-8.5(1/2")	25	1
3/4" (20)		58-8.5(3/4")	25	1
1" (25)		58-8.5(1")	20	2
1 1/2" (40)	58-5(1 1/2")		10	2.5
2" (55)	58-5(2")		10	3
3" (80)	58-5(3")		1	5
4" (100)	58-5(4")		1	6



RED HAND PVC FITTING Pressure Support

Used for water piping system where pressure support is required. For example, the water supply system from the water pump into the house or water system in the utility or agricultural work.

The company's products have a high quality. Produced by using specialty Grade A of raw material and have the following features:

1. Quality Class 13.5; Strength, durable, toughness, impact and press force resistance.
2. Resistance to acid and alkaline conditions
3. Contain UV Protection from sunlight.
4. No contamination. Can be used as a water pipe.
5. TIS 1131-2535 Certified.



Con. 1131-2535

PVC Socket



Code Number	Size (inch)	Pack Size (box)
50201	1/2"	600
50202	3/4"	400
50203	1"	200
50204-I	1 1/4"	80
50204	1 1/2"	80
50205	2"	65
50206	2 1/2"	40
50207	3"	24
50208	4"	10

PVC Valve Socket



Code Number	Size (inch)	Pack Size (box)
50501	1/2"	600
50502	3/4"	500
50503	1"	350
50504-I	1 1/4"	150
50504	1 1/2"	150
50505	2"	80
50506	2 1/2"	50
50507	3"	40
50508	4"	16

PVC Faucet Socket with Brass



Code Number	Size (inch)	Pack Size (box)
54601	1/2"	60
54602	3/4"	60
54603	1"	50

PVC Brass Valve Socket



Code Number	Size (inch)	Pack Size (box)
54611	1/2"	60
54612	3/4"	60
54613	1"	60

Fitting Pressure Support

PVC Reducer Fittings

Code Number	Size (inch x inch)	Pack Size (box)
50301	3/4"x1/2"	470
50302	1"x1/2"	300
50303	1"x3/4"	300
50304-I	1 1/4"x1/2"	160
50305-I	1 1/4"x3/4"	160
50306-I	1 1/4"x1"	160
50304	1 1/2"x 1/2"	100
50305	1 1/2"x3/4"	100
50306	1 1/2"x1"	100
50307	1 1/2"x1 1/4"	80
50308	2"x1/2"	50
50309	2"x3/4"	50
50310	2"x1"	50
50311	2"x1 1/4"	50
50312	2"x1 1/2"	50
50313	2 1/2"x3/4"	55
50314	2 1/2"x1"	55
50315	2 1/2"x1 1/2"	55
50316	2 1/2"x2"	55
50317	3"x1"	26
50318	3"x1 1/4"	26
50319	3"x1 1/2"	26
50320	3"x2"	26
50321	3"x2 1/2"	26
50322	4"x1 1/2"	20
50322-A	4"x1"	20
50323	4"x2"	20
50324	4"x2 1/2"	20
50325	4"x3"	20



PVC Faucet socket

Code Number	Size (inch)	Pack Size (box)
50801	1/2"	600
50802	3/4"	400
50803	1"	250
50804-I	1 1/4"	200
50804	1 1/2"	100
50805	2"	65
50806	2 1/2"	42
50807	3"	22
50808	4"	12



PVC Cap

Code Number	Size (inch)	Pack Size (box)
50401	1/2"	1,000
50402	3/4"	800
50403	1"	300
50404-I	1 1/4"	150
50404	1 1/2"	150
50405	2"	80
50406	2 1/2"	40
50407	3"	30
50408	4"	20
50410	6"	14



PVC Internal Thread cap

Code Number	Size (inch)	Pack Size (box)
50901	1/2"	1,000
50902	3/4"	800
50903	1"	600
50904-I	1 1/4"	400
50904	1 1/2"	300
50905	2"	100
50906	2 1/2"	55
50907	3"	45
50908	4"	35



Elbow 90°



Code Number	Size (inch)	Pack Size (box)
50101	1/2"	500
50102	3/4"	300
50103	1"	150
50104-I	1 1/4"	200
50104	1 1/2"	70
50105	2"	35
50106	2 1/2"	20
50107	3"	11
50108	4"	6

Valve Elbow 90°



Code Number	Size (inch)	Pack Size (box)
54701	1/2"	300
54702	3/4"	250
54703	1"	150
54704	1 1/2"	60
54705	2"	30

Reducing Elbow 90°



Code Number	Size (inch x inch)	Pack Size (box)
50000	3/4"x1/2"	300

Faucet Elbow 90°



Code Number	Size (inch)	Pack Size (box)
54201	1/2"	400
54202	3/4"	300
54203	1"	150
54204	1 1/2"	70
54205	2"	15

Brass Valve Elbow 90°



Code Number	Size (inch)	Pack Size (box)
54311	1/2"	100
54312	3/4"	100
54313	1"	60

Brass Faucet Elbow 90°



Code Number	Size (inch)	Pack Size (box)
54301	1/2"	100
54302	3/4"	100
54303	1"	80

TEE



Code Number	Size (inch)	Pack Size (box)
50601	1/2"	300
50602	3/4"	200
50603	1"	150
50604-I	1 1/4"	100
50604	1 1/2"	35
50605	2"	23
50606	2 1/2"	10
50607	3"	8
50608	4"	4


Reducing Tee




Code Number	Size (inch x inch)	Pack Size (box)
50700	3/4"x1/2"	200
50701	1"x1/2"	120
50702	1"x3/4"	120
50703	1 1/2"x 1/2"	40
50704	1 1/2"x3/4"	40
50705	1 1/2"x1"	40
50706	2"x1/2"	40
50707	2"x3/4"	40
50708	2"x1"	40
50709	2"x1 1/2"	25

Fitting Pressure Support


Faucet Tee

	Code Number	Size (inch)	Pack Size (box)
	54401	1/2"	300
	54402	3/4"	200


Brass Faucet Tee

	Code Number	Size (inch)	Pack Size (box)
	54501	1/2"	60
	54502	3/4"	60


Faucet Tee

	Code Number	Size (inch)	Pack Size (box)
	54401-M	1/2"	80


Brass Faucet Tee

	Code Number	Size (inch)	Pack Size (box)
	54401-MB	1/2"	80


Brass Valve Tee

	Code Number	Size (inch)	Pack Size (box)
	54501-MB	1/2"	60


Valve and Faucet Tee

	Code Number	Size (inch)	Pack Size (box)
	54401-I	1/2"	150


Side Outlet Elbow

	Code Number	Size (inch)	Pack Size (box)
	54001	1/2"	150
	54002	3/4"	150
	54003	1"	90


Side Outlet Tee

	Code Number	Size (inch)	Pack Size (box)
	54101	1/2"	120
	54102	3/4"	120
	54103	1"	100


Coupling

	Code Number	Size (inch)	Pack Size (box)
	54601-M	1/2"	150


Brass Coupling

	Code Number	Size (inch)	Pack Size (box)
	54601-MB	1/2"	150

Coupling Elbow 90°

	Code Number	Size (inch)	Pack Size (box)
	54301-M	1/2"	120

Brass Coupling Elbow 90°

	Code Number	Size (inch)	Pack Size (box)
	54301-MB	1/2"	100



Valve Plug



Code Number	Size (inch)	Pack Size (bag)
545-1	1/2"	100
545-2	3/4"	100
545-3	1"	100
545-4I	1 1/4"	100
545-4	1 1/2"	50
545-5	2"	50
545-6	2 1/2"	50
545-7	3"	40
545-8	4"	30

Socket Union



Code Number	Size (inch)	Pack Size (bag)
356-50	3/4"	1
356-51	1"	1
356-52	1 1/2"	1
356-53	2"	1

Faucet and Valve Socket



Code Number	Size (inch)	Pack Size (bag)
54801	1/2"x1/2"	250

Faucet Socket Union



Code Number	Size (inch)	Pack Size (bag)
356-40	3/4"	1
356-41	1"	1
356-42	1 1/2"	1
356-43	2"	1

Pipe Clip



Code Number	Size (inch)	Pack Size (bag)
535-1	3/8"	100
535-2	1/2"	100
535-3	3/4"	100
535-4	1"	100

PVC Socket Union with Rubber Ring



Code Number	Size (inch)	Pack Size (bag)
356-51R	1"	1
356-52R	1 1/2"	1
356-53R	2"	1

Npple



Code Number	Size (inch)	Pack Size (bag)
540-1	1/2"	100
540-2	3/4"	100
540-3	1"	100
540-4	1 1/2"	100
540-5	2"	50

Faucet Pipe Slip with Drain Plug



Code Number	Size (inch)	Pack Size (box)
590-15	1/2"	100
590-20	3/4"	100
590-25	1"	100
590-40	1 1/2"	50
590-50	2"	50

Drain Plug



Code Number	Size (inch)	Pack Size (box)
590-15C	1/2"	100
590-20C	3/4"	100
590-25C	1"	100
590-40C	1 1/2"	50
590-50C	2"	50

Fitting Pressure Support

Reducing Faucet



Code Number	Size (inch x inch)	Pack Size (bag)
550-1	3/4"x1/2"	100
550-2	1"x1/2"	100
550-3	1"x3/4"	100
550-4	1 1/2"x1/2"	100
550-5	1 1/2"x3/4"	100
550-6	1 1/2"x1"	100
550-7	2"x1/2"	50
550-8	2"x3/4"	50
550-9	2"x1"	50
550-10	2"x1 1/2"	50

Clamp Saddle



Code Number	Size (inch)	Pack Size (bag)
530-1	1/2"	100
530-2	3/4"	100
530-3	1"	100
530-4	1 1/2"	100
530-5	2"	50
530-6	2 1/2"	50
530-7	3"	25
530-8	4"	25

Socket With Rubber Gasket



Code Number	Size (inch)	Pack Size (bag)
271-1	1/2"	1
271-2	3/4"	1
271-3	1"	1
271-4	1 1/4"	1
271-5	1 1/2"	1
271-6	2"	1
271-7	2 1/2"	1
271-8	3"	1
271-9	4"	1
271-10	5"	1
271-11	6"	1
271-12	8"	1

PVC Rubber Gasket



Code Number	Size (inch)	Pack Size (bag)
271-1P	1/2"	1
271-2P	3/4"	1
271-3P	1"	1
271-4P	1 1/4"	1
271-5P	1 1/2"	1
271-6P	2"	1
271-7P	2 1/2"	1
271-8P	3"	1
271-9P	4"	1
271-10P	5"	1
271-11P	6"	1
271-12P	8"	1

Butterfly Valve



Code Number	Size (inch)	Pack Size (box)
272-8	3"	1
272-9	4"	1
272-11	6"	1
272-12	8"	1



TIPS

How to install a Butterfly Valve and PVC Flange.



RED HAND PVC Fitting Drainage Work

Used for drain sewage next from bathroom sanitary ware, waste water drainage, ventilation or work at not much pressure support.

Produced by injection process which makes the seamless joints. Leakage is more difficult than joints produced by hand welding.



Thin PVC Reducer Fitting



Code Number	Size (inch x inch)	Pack Size (box)
55300	2"x1"	145
55301	2"x1 1/4"	145
55302	2"x1 1/2"	120
55303	3"x1 1/2"	75
55304	3"x2"	68
55305	4"x2"	35
55306	4"x2 1/2"	35
55307	4"x3"	35
55308	6"x4"	9

Thin PVC Socket



Code Number	Size (inch)	Pack Size (box)
55201	1 1/2"	150
55202	2"	150
55203	3"	37
55204	4"	20
55206	6"	4

Thin PVC Elbow 90° Red H and Brand



Code Number	Size (inch)	Pack Size (box)
55101	1 1/2"	125
55102	2"	75
55103	3"	20
55104	4"	12
55106	6"	3

Thin PVC Elbow 90° Chaiyo Brand



Code Number	Size (inch)	Pack Size (box)
55104-B	4"	12

Fitting Drainage Work

Vent Tee - DR



Code Number	Size (inch x inch)	Pack Size (box)
55104-B1	4"x3/4"	10
55104-B2	4"x1"	10

Vent Tee - DR



Code Number	Size (inch x inch)	Pack Size (box)
55104-G1	4"x1"	9

Y - DR



Code Number	Size (inch)	Pack Size (box)
55604	4"	1

Elbow 45 - DR



Code Number	Size (inch)	Pack Size (box)
55001	1 1/2"	125
55002	2"	80
55003	3"	30
55004	4"	13
55005	5"	5
55006	6"	3

Tee - DR



Code Number	Size (inch)	Pack Size (box)
55401	1 1/2"	70
55402	2"	55
55403	3"	15
55404	4"	8
55405	5"	4
55406	6"	2

Reducing Tee - DR



Code Number	Size (inch x inch)	Pack Size (box)
55501	2"x1 1/2"	55
55502	3"x1 1/2"	23
55503	3"x2"	19
55504	4"x1 1/2"	7
55505	4"x2"	7
55506	4"x3"	7
55507	6"x4"	1

Clean Out



Code Number	Size (inch)	Pack Size (bag)
541-50	2"	1
541-65	2 1/2"	1
541-75	3"	1
541-100	4"	1
541-125	5"	1
541-150	6"	1

P-TRAP (C/O)



Code Number	Size (inch)	Pack Size (box)
548-40	1 1/2"	10
548-50	2"	10

U-TRAP (C/O)



Code Number	Size (inch)	Pack Size (box)
549-40	1 1/2"	10
549-50	2"	10



Granite Clean Out Plug



Code Number	Size (inch)	Pack Size (box)
555-1	6"	24

White Clean Out Plug



Code Number	Size (inch)	Pack Size (box)
555	6"	24

White PVC Floor Drain



Code Number	Size (inch)	Pack Size (box)
560-1	1 1/2"	40
560-2	2"	30

RED HAND Pipe Thread Tape 16x0.1mm



Code Number	Long (meter)	Pack Size (box)
5555-RH	12m.	300

CHAIYO Pipe Thread Tape 19x0.1mm



Code Number	Long (meter)	Pack Size (box)
5555-CY	15m.	400

CHAMP Pipe Thread Tape 12x0.075mm



Code Number	Long (meter)	Pack Size (box)
5555-CP	10m.	1,000

PVC Adhesive



Code Number	Size (gram)	Pack Size (box)
55-50PS	50	20
55-100PS	100	20
55-250PS	250	20
55-500PS	500	10
55-1000PS	1,000	6


 TIPS

How to use Pipe Thread Tape.

1. Wrapping tape by clockwise.
2. Wrapping tape overlaps on half of the tape width.
3. Use tensile to wrap tape as less as the tape to form to spiral shape.

CHAIYO

PVC Fitting

Agricultural Work

Using for water system work that is no need much pressure support and need worthiness e.g. agricultural work.

Feature - some models can connect between PVC Pipe and PE Pipe.

PVC Socket-AG



Code Number	Size (inch)	Pack Size (sack)
58901	1/2"	1,000
58902	3/4"	700
58903	1"	400
58904	1 1/2"	220
58905	2"	180

PVC Elbow 90°-AG



Code Number	Size (inch)	Pack Size (sack)
58501	1/2"	700
58502	3/4"	500
58503	1"	350
58504	1 1/2"	200
58505	2"	100

PVC Reducing Elbow 90°-AG



Code Number	Size (inch x inch)	Pack Size (sack)
59001	1"x1/2"	400
59002	1"x3/4"	350

PVC Tee-AG



Code Number	Size (inch)	Pack Size (sack)
58201	1/2"	600
58202	3/4"	400
58203	1"	250
58204	1 1/2"	80
58205	2"	60
58205-1	2 1/2"	36
58206	3"	20
58207	4"	16

PVC Cross-AG



Code Number	Size (inch)	Pack Size (sack)
58601	1/2"	500
58602	3/4"	300
58603	1"	180
58604	1 1/2"	90
58605	2"	60
58605-1	2 1/2"	30
58606	3"	20
58607	4"	12

PVC Tee Y-AG



Code Number	Size (inch)	Pack Size (sack)
59010	1/2"	500
59011	3/4"x1/2"	500
59012	3/4"	500



PVC Reducing Tee-AG

Code Number	Size (inch x inch)	Pack Size (sack)
58000	3/4"x1/2"	500
58001	1"x1/2"	400
58001-B	1"x1/2"	400
58002	1"x3/4"	400
58002-B	1"x3/4"	400
58003	1 1/2"x1/2"	100
58004	1 1/2"x3/4"	100
58005	1 1/2"x1"	100
58006	2"x1/2"	100
58007	2"x3/4"	100
58008	2"x1"	100
58009	2"x1 1/2"	100
58018	2 1/2"x1/2"	48
58019	2 1/2"x3/4"	48
58020	2 1/2"x1"	48
58021	2 1/2"x1 1/2"	48
58010-A	3"x1/2"	40
58010	3"x3/4"	40
58011	3"x1"	40
58012	3"x1 1/2"	40
58013	3"x2"	40
58014	4"x1"	24
58015	4"x1 1/2"	24
58016	4"x2"	24
58017	4"x3"	24



PVC Reducing Cross-AG

Code Number	Size (inch x inch)	Pack Size (sack)
58300	3/4"x1/2"	300
58301	1"x1/2"	300
58302	1"x3/4"	300
58303	1 1/2"x1/2"	100
58304	1 1/2"x3/4"	100
58305	1 1/2"x1"	100
58306	2"x1/2"	100
58307	2"x3/4"	100
58308	2"x1"	90
58309	2"x1 1/2"	70
58318	2 1/2"x1/2"	42
58319	2 1/2"x3/4"	42
58320	2 1/2"x1"	42
58321	2 1/2"x1 1/2"	42
58322	2 1/2"x2"	42
58310-B	3"x1/2"	35
58310	3"x3/4"	35
58311	3"x1"	35
58312	3"x1 1/2"	35
58313	3"x2"	35
58314	4"x1"	15
58315	4"x1 1/2"	15
58316	4"x2"	15
58317	4"x3"	15



PVC-PE Reducing Tee-AG

Code Number	Size (inch x millimeter)	Pack Size (sack)
58101	1"x16	300
58102	1"x20	250
58103	1"x25	250
58104	1 1/2"x16	120
58105	1 1/2"x20	120
58106	1 1/2"x25	120
58107	2"x16	100
58108	2"x20	100
58109	2"x25	100
58110	2"x32	100



PVC-PE Reducing Cross-AG

Code Number	Size (inch x millimeter)	Pack Size (sack)
58401	1"x16	250
58402	1"x20	250
58403	1"x25	250
58404	1 1/2"x16	100
58405	1 1/2"x20	100
58406	1 1/2"x25	100
58407	2"x16	100
58408	2"x20	100
58409	2"x25	100
58410	2"x32	100



PVC Reducing Tee Cap-AG

Code Number	Size (inch x inch)	Pack Size (sack)
58701	1"x1/2"	250
58702	1"x3/4"	250
58703	1"x1"	200
58704	1 1/2"x 1/2"	150
58705	1 1/2"x3/4"	100
58706	1 1/2"x1"	100
58707	2"x1/2"	90
58708	2"x3/4"	90
58709	2"x1"	90
58710	2 1/2"x1/2"	50
58711	2 1/2"x3/4"	50
58712	2 1/2"x1"	50
58713	2 1/2"x1 1/2"	50
58714	3"x1/2"	48
58715	3"x3/4"	48
58716	3"x1"	48
58717	3"x1 1/2"	42
58717-1	3"x2"	28
58718	4"x1"	28
58719	4"x1 1/2"	28
58720	4"x2"	28
58721	4"x3"	28



PVC-PE Reducing Tee Cap-AG

Code Number	Size (inch x millimeter)	Pack Size (sack)
58801	1"x16	300
58802	1"x20	300
58803	1"x25	300
58804	1 1/2"x16	150
58805	1 1/2"x20	150
58806	1 1/2"x25	120
58807	2"x16	100
58808	2"x20	100
58809	2"x25	100
58810	2"x32	100



PVC Faucet Cap-AG

Code Number	Size (millimeter)	Pack Size (bag)
840-40	1 1/2"	100
840-50	2"	50



Ball Valve

Produced by using high quality of raw material.
High pressure resistance up to 13.5 Bar.
Resistance to acid and alkaline conditions.
Slippery handle. Used for opening and closing water system and agricultural.

RED HAND PVC Ball Valve



pressure resistant
13.5 bars

Code Number	Size (inch)	Pack Size (box)
50001-RH	1/2"	150
50002-RH	3/4"	120
50003-RH	1"	75
50009-RH	1 1/4"	36
50004-RH	1 1/2"	36
50005-RH	2"	24

CHAIYO PVC Ball Valve



Code Number	Size (inch)	Pack Size (box)
50001-CY	1/2"	150
50002-CY	3/4"	120
50003-CY	1"	75
50009-CY	1 1/4"	36
50004-CY	1 1/2"	36
50005-CY	2"	24

RED HAND PVC Ball Valve



pressure resistant
13.5 bars

Code Number	Size (inch)	Pack Size (box)
50008-RH	2 1/2"	6
50006-RH	3"	6
50007-RH	4"	4

CHAIYO PVC Ball Valve



Code Number	Size (inch)	Pack Size (box)
50008-CY	2 1/2"	20
50006-CY	3"	12
50007-CY	4"	6

CHAMP PVC Ball Valve



Code Number	Size (inch)	Pack Size (box)
50001-CP	1/2"	150
50002-CP	3/4"	120
50003-CP	1"	75
50009-CP	1 1/4"	36
50004-CP	1 1/2"	36
50005-CP	2"	24

CHAMP PVC Ball Valve



Code Number	Size (inch)	Pack Size (box)
50001-CP(G)	1/2"	150
50002-CP(G)	3/4"	120
50003-CP(G)	1"	75
50004-CP(G)	1 1/2"	36
50005-CP(G)	2"	24

Mini Ball Valve

Faucet



Code Number	Size (inch)	Pack Size (box)
5-1101-1	1/2"	20

Valve



Code Number	Size (inch)	Pack Size (box)
5-1102-1	1/2"	20

Faucet and Valve



Code Number	Size (inch)	Pack Size (box)
5-1103-1	1/2"	20

Valve Tee



Code Number	Size (inch)	Pack Size (box)
5-1134-1	1/2"	12

Faucet and Valve Tee



Code Number	Size (inch)	Pack Size (box)
5-1135-1	1/2"	12

Chromed Valve



Code Number	Size (inch)	Pack Size (box)
5-1102-300-1	1/2"	24

Chromed Faucet and Valve



Code Number	Size (inch)	Pack Size (box)
5-1103-300-1	1/2"	24

Chromed Valve Tee



Code Number	Size (inch)	Pack Size (box)
5-1134-300-1	1/2"	16

Chromed Faucet and Valve Tee



Code Number	Size (inch)	Pack Size (box)
5-1135-300-1	1/2"	24

Brass



Code Number	Size (inch)	Pack Size (box)
1-SV1	1/4"	1
1-SV2	1/4"	1



TIPS

VALVE



FAUCET

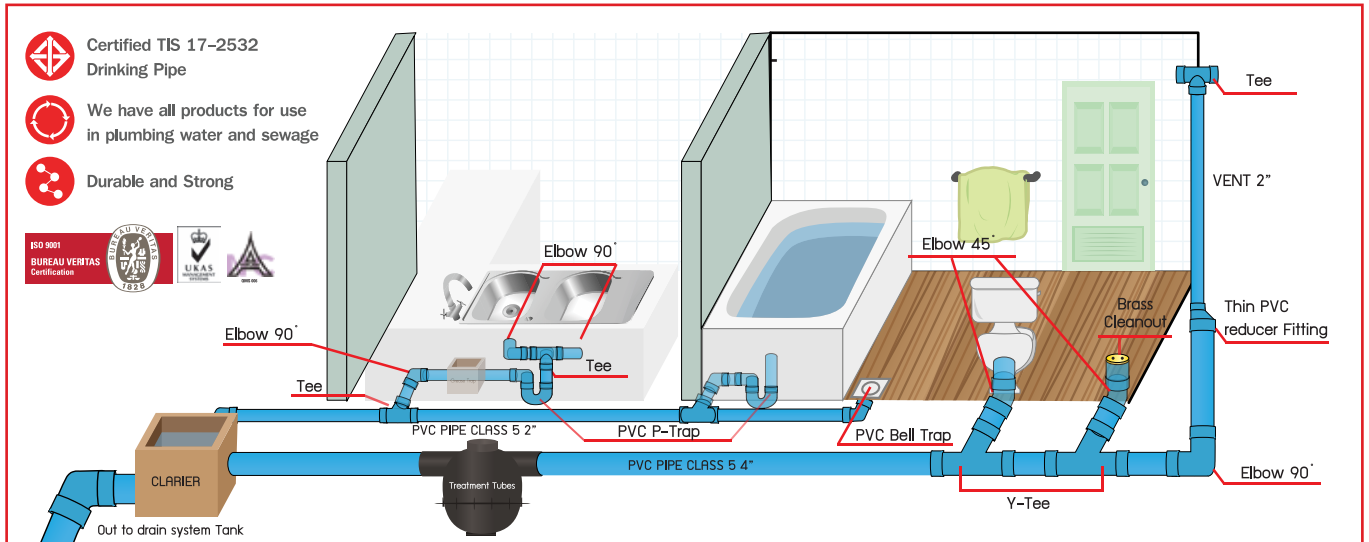




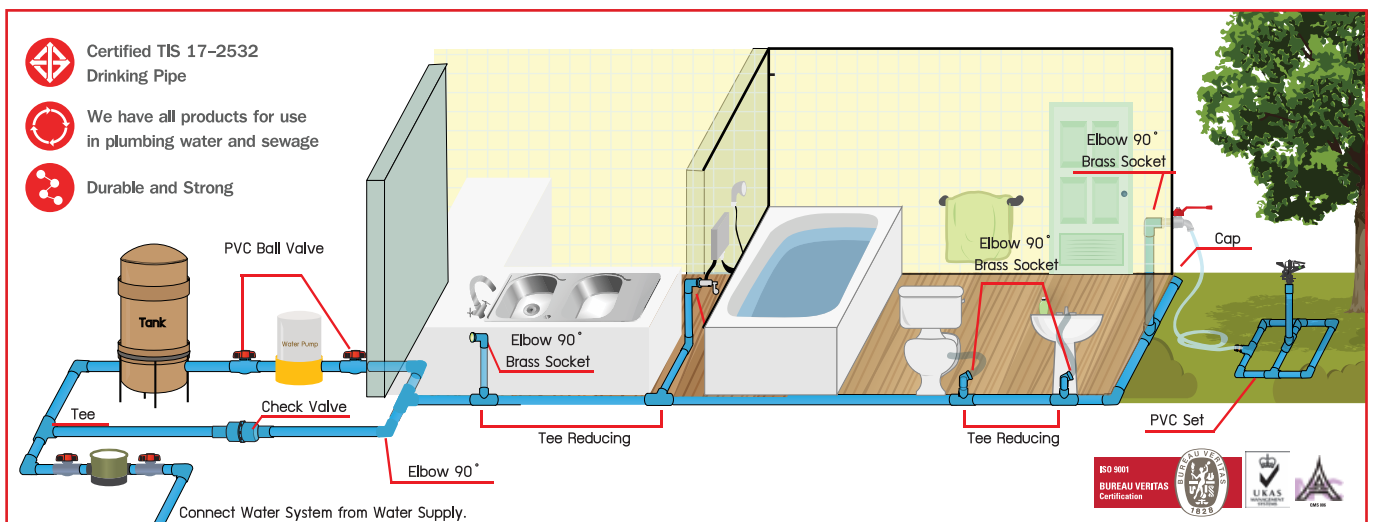
TIPS

How to install the fresh water and sewage water systems.

Sewage System



Water System



Pipe and Fitting For Conduit Work

Used for Electrical or Telephone Wiring. Property is an electrical insulating. No conduct of electricity when leakage. Not widely spread flame of fire when the fire accident occurred. Electrical Conduit is certified according to TIS 216-2524



con. 216-2524

Nominal Size inch(mm.)	Code Number	Quantity (Pieces/ Bundle)	Bell Charge (baht/pc.)
3/8"	58-1(3/8")	25	1
1/2" (18)	58-1(1/2")	25	1
3/4" (20)	58-1(3/4")	20	2
1" (25)	58-1(1")	10	2
1 1/2" (40)	58-1(1 1/2")	10	2.5
2" (55)	58-1(2")	10	3

Socket-CO

Code Number	Size (inch)	Pack Size (box)
50200Y	3/8"	600
50201Y	1/2"	600
50202Y	3/4"	400
50203Y	1"	200
50204-Y	1 1/4"	80
50204Y	1 1/2"	80
50205Y	2"	65



Tee-CO

Code Number	Size (inch)	Pack Size (box)
50600Y	3/8"	300
50601Y	1/2"	300
50602Y	3/4"	200
50603Y	1"	100
50604-Y	1 1/4"	35
50604Y	1 1/2"	35
50605Y	2"	23



Bend-CO

Code Number	Size (inch)	Pack Size (box)
50100Y	3/8"	500
50101Y	1/2"	500
50102Y	3/4"	300
50103Y	1"	150



Connector-CO

Code Number	Size (inch)	Pack Size (box)
564-1	3/8"	500
564-2	1/2"	400
564-3	3/4"	300



White Corrugated Cable-CO



Code Number	Size (inch)	Length (meter)	Pack Size (roll up)
58-201W-100	3/8"	100	1
58-201W-50	3/8"	50	1
58-202W-100	1/2"	100	1
58-202W-50	1/2"	50	1
58-203W-100	3/4"	100	1
58-203W-50	3/4"	50	1
58-204W-50	1"	50	1

Yellow Corrugated Cable-CO



Code Number	Size (inch)	Length (meter)	Pack Size (roll up)
58-201Y-100	3/8"	100	1
58-201Y-50	3/8"	50	1
58-202Y-100	1/2"	100	1
58-202Y-50	1/2"	50	1
58-203Y-100	3/4"	100	1
58-203Y-50	3/4"	50	1
58-204Y-50	1"	50	1

White PVC Flex Hose-CO



Code Number	Size (inch)	Length (cm)	Pack Size (roll up)
58-301W	3/8"	20	100
58-302W	3/8"	40	100
58-303W	1/2"	20	100
58-304W	1/2"	40	100
58-305W	3/4"	20	100
58-306W	3/4"	40	100

Yellow PVC Flex Hose-CO



Code Number	Size (inch)	Length (cm)	Pack Size (roll up)
58-301Y	3/8"	20	100
58-302Y	3/8"	40	100
58-303Y	1/2"	20	100
58-304Y	1/2"	40	100
58-305Y	3/4"	20	100
58-306Y	3/4"	40	100

Saddle Clip-CO



Code Number	Size (inch)	Pack Size (bag)
530-1Y	3/8"	100
530-2Y	1/2"	100
530-3Y	3/4"	100
530-4Y	1"	100

Pipe Clip-CO



Code Number	Size (inch)	Pack Size (bag)
535-1Y	3/8"	100
535-2Y	1/2"	100
535-3Y	3/4"	100
535-4Y	1"	100

Square Junction Box-CO 4"x 2"



Code Number	Size (inch x inch)	Pack Size (bag)
561	3/8", 1/2", 3/4"	50

Square Junction Box-CO 4"x 4"



Code Number	Size (inch x inch)	Pack Size (bag)
562	3/8", 1/2", 3/4"	20

Circular Junction Box-Co



Code Number	Size (inch)	Pack Size (bag)
563	3/8", 1/2", 3/4"	50

Water Pump and Spare Parts

At present, the water pump is important equipment for water dispensing for household both in residence and in agricultural purposes. Choosing a water pump is also important factor in getting sufficient volume of water to suit user needs.



Water Pump Spare Parts

Uses for agricultural or water system purposes that needs worthiness. There are fitting that can be converted from PVC Pipe into PE Sub Pipe.

Adapter Set



Code Number	Size (inch x inch)	Pack Size (box)
251	2"x1 1/2"	50
252	2"x2"	50
253	3"x2"	50
254	3"x3"	50

Adapter Female Thread



Code Number	Size (inch x inch)	Pack Size (box)
261	2"x1 1/2"	50
262	2"x2"	50
263	3"x2"	50
264	3"x3"	50

Reducer Pipe Male Thread (Blue)



Code Number	Size (inch x inch)	Pack Size (bag)
290BL	1/2"	100
291BL	3/4"	100
292BL	1"x3/4"	100
293BL	1"	100
294BL	1 1/2"x1"	50
295BL	1 1/2"	50
296BL	2"x1 1/2"	50
297BL	2"	50

Reducer Connector



Code Number	Size (inch x inch)	Pack Size (box)
270-00	3/4"x1/2"	100
270-01	3/4"x3/4"	100
270-02	1"x1/2"	100
270-03	1"x3/4"	100
270-04	1"x1"	100
270-05	1 1/4"x3/4"	50
270-06	1 1/4"x1"	50
270-07	1 1/4"x1 1/4"	50
270-08	1 1/2"x1"	50
270-09	1 1/2"x1 1/4"	50
270-10	1 1/2"x1 1/2"	50
270-11	2"x1"	50
270-12	2"x1 1/4"	50
270-13	2"x1 1/2"	50
270-14	2"x2"	50
270-15	3"x1 1/2"	50
270-16	3"x2"	50
270-17	3"x3"	50
270-18	4"x2"	50
270-19	4"x3"	50
270-20	4"x4"	50

Reducer Pipe Male Thread (Black)



Code Number	Size (inch x inch)	Pack Size (box)
290	1/2"	100
291	3/4"	100
292	1"x3/4"	100
293	1"	100
294	1 1/2"x1"	50
295	1 1/2"	50
296	2"x1 1/2"	50
297	2"	50
298	3"x2"	20
299	3"	20

Pump Connector PVC Male/Female Thread



Code Number	Size (inch x inch)	Pack Size (box)
441	1"	1
441-R	1x3/4"	1
442	1 1/2"	1
442-R	1 1/2x1"	1
443	2"	1
443-R	2x1 1/2"	1

Eng Plug Male Thread+Gasket



Code Number	Size (inch)	Pack Size (box)
440-C	3/4"(Honda Pump)	100
441-C	1"	100
442-C	1 1/2"	100
443-C	2"	50

Plastic Impeller for Mini Submersible Pump



Code Number	Size (inch)	Diameter (cm)	Core Type	Hole Size (mm)	Key Way	Pack Size (box)
400	1"	7.5	plastic	7	no	1

Plastic Impeller for Mini Submersible Pump



Code Number	Size (inch)	Diameter (cm)	Core Type	Hole Size (mm)	Key Way	Pack Size (box)
402	1 1/2"	8.5	plastic	10	yes	1
403	2"	10	plastic	15	yes	1



421





422

Plastic Impeller for Centrifugal Pump 1" 1Hp (Brass Core)


Code Number	Size (inch)	Diameter (cm)	Core Type	Hole Size (mm)	Key Way	Pack Size (box)
421	1"x1"	16	brass	7.0	no	1
422	1 1/2"	12	brass	10.5	yes	1




Plastic Impeller for Centifugal Pump

	Code Number	Size (inch x mm)	Diameter (cm)	Core Type	Hole Size (mm)	Key Way	Pack Size (box)
 plastic core	411	1"x10	13	plastic	10	yes	1
	412	1"x11	13	plastic	11	yes	1
	413	1"x12	13	plastic	12	yes	1
	414	1"x10-11	13	plastic	10-11	no	1
	415	1"x7-13	13	plastic	7-13	no	1
 brass core	416	1"x10	13	brass	10	yes	1
	417	1"x11	13	brass	11	yes	1
	418	1"x12	13	brass	12	yes	1
	419	1"x10-11	13	brass	10-11	no	1
	420	1"x7-13	13	brass	7-13	no	1


Impeller Deep Well Pump Korea Design

	Code Number	Diameter (cm)	Core Type	Hole Size (cm)	Key Way	Pack Size (box)
	423-1	12.5	plastic	1.5	no	1


Cover Deep Well Pump Korea Design

	Code Number	Diameter (cm)	Core Type	Hole Size (mm)	Key Way	Pack Size (box)
	423-2	16.5	plastic	35	no	1

Impeller Deep Well Pump Italy Design

	Code Number	Diameter (cm)	Core Type	Hole Size (mm)	Key Way	Pack Size (box)
	424-1	13	brass	7-13	no	1

Cover Deep Well Pump Italy Design

	Code Number	Diameter (cm)	Core Type	Hole Size (mm)	Key Way	pack Size (box)
	424-2	16.5	plastic	30	no	1

Fan Blades for Motors



Code Number	Size (HP)	Diameter (cm)	Core Type	Hole Size (mm)	Key Way	Pack Size (box)
431	0.5	11	plastic	12	no	1
432	1	13.5	plastic	16	no	1
433	2	14.2	plastic	25	no	1
434	3	14.5	plastic	20	no	1
435	5-10	16.0	plastic	30	no	1

Fan Blades for Motors



Code Number	Size (HP)	Diameter (cm)	Core Type	Hole Size (cm)	Key Way	Pack Size (box)
438	2	17	plastic	1.9	yes	1
439	3	18	plastic	1.9	yes	1
440	5	21	plastic	2.9	yes	1

Fan Blades 3ph.



Code Number	Size (HP)	Diameter (cm)	Core Type	Hole Size (mm)	Key Way	Pack Size (bag)
445-B5	5-10	20.5	plastic	22	yes	1
445-B6	3	16.5	plastic	18	yes	1
445-B7	2	14	plastic	16	yes	1
445-B8	1	15.5	plastic	14	yes	1
445-B9	0.5	11.5	plastic	11	yes	1

Fan Blades ARENO 0.5 - 2 Hp



Code Number	Size (HP)	Diameter (cm)	Core Type	Hole Size (mm)	Key Way	Pack Size (bag)
432-RN	0.5-2	14	plastic	12	no	1

Control Box Cover



Code Number	Size (HP)	Pack Size (box)
481	0.5	1
481-5	1-1.5	1
482	2	1

Terminal Cover 3ph/380V



Code Number	Size (HP)	Pack Size (bag)
484-1	0.5	1
484-2	2	1



Terminal Cover 3ph.



Code Number	Size (inch)	Pack Size (bag)
488-2	2	1

Automatic Tank Switch



Code Number	Size (inch)	Pack Size (box)
612-200	1/4"	1
613-100	3/8"	1
614-200	3/8"	1

Automatic Switch



Code Number	Size (inch)	Pack Size (box)
604	1"	1

Automatic Switch



Code Number	Size (inch)	Pack Size (box)
603	1"	1

Valve Rubber



Code Number	Type	Size (inch)	Pack Size (bag)
701	1200	1"	100
702	1500	1"	100
703	3000	1 1/2"	100
704	6000	2"	100

Stainless Steel Tongue



Code Number	Size (inch)	Pack Size (bag)
721	1"	100
722	1 1/2"	100
723	2"	100

Brass and Stainless Springs for Valve



Code Number	Type	Size (inch)	Pack Size (bag)
711	brass	1"	100
712	brass	1 1/2"	100
713	brass	2"	100
711-S	stainless	1"	100
712-S	stainless	1 1/2"	100
713-S	stainless	2"	100

Pump Parts Set



Code Number	Size (inch)	Pack Size (bag)
793	1"	100
794	1 1/2"	50
795	2"	50

Drive Coupling Rubber



Code Number	use with model	Pack Size (box)
911	KR-80	1
912	KR-95	1
913	KR-115	1
914	KR-135	1
915	KR-160	1
916	KR-180	1
917	KR-200	1

Steel Drive Coupling (Chaiyo)



Code Number	Size (HP)	use with model	Diameter (mm)	Pack Size (box)
901	1-3	KR-80	80	1
902	5-7	KR-95	95	1
903	10-15	KR-115	115	1
904	15-30	KR-135	135	1
905	20-40	KR-160	160	1
906	40-60	KR-180	180	1
907	50-80	KR-200	200	1

Rubber Drive Coupling



Code Number	Length (inch)	Diameter (-)	Amount (latch)	Pack Size (box)
930	4"	-	3	1
931	5"	-	6	1
932	6"	-	6	1
933	7"	-	8	1
934	8"	-	10	1
935	10"	-	12	1





TIPS

Water Pump Maintenance

Maintenance Schedule

Pumping water up, but it has symptoms	Possibility Causes	Solutions
Motor won't stop running or cycles rapidly	Pressure Control Switch won't work.	Repair or Replace
Faucet is closed, but pump runs	1. Suction pipe or transmission pipe leakage	1. Repair
	2. Water leakage from waterproofing parts	2. Replace
	3. Closure of the Check Valve won't closed firmly	3. Clean the Check Valve
Pump runs too often	1. Pressure Control Switch won't work	1. Check for the Pressure Control Switch and Replace
	2. Air in the tank has no enough (If use Cylinder Water Pump)	2. Drain all of the water out of the water tank and clean the contact of Pressure Control Switch (If use Cylinder Water Pump)
	3. Wind in the tank has no enough	3. To put air 20 pounds into the tank or use Tire Inflator
	4. Volume of water usage are much and frequently	4. Turn off the faucet tightly
Water flow is slow	1. Transmission pipes are blocked or partially blocked somewhere	1. Repair or Replace
	2. Little or no water in the suction hose	2. Check for the Suction Hoses whether has a piece of garbage inside or not

Maintenance Schedule

Cannot Pumping water up, but it has symptoms	Possibility Causes	Solutions
Motor won't run	1. Plug is not tight	1. Make plug tightly
	2. Main switch shutting off and fuse is broken	2. Check main switch or replace of use
	3. Motor coil or pressure switch is broken	3. Repair or replace of motor or pressure switch
	4. Electric plug or wire is broken	4. Repair or replace of electric plug or wire
	1. Air goes into the suction hose	1. Check for pipe's connectings and repair
Automatic Air Compressor is broken	2. Automatic Air Compressor is broken	2. Replace
	3. Water used for starting to pump water is not enough	3. Turn power off and refill of water for starting to pump water
	4. Suction Hoses are blocked or partially blocked somewhere	4. Check and clean the suction hoses
	5. Water level in water resource is lower than end of Suction Hoses	5. Settle end of Suction Hoses down deep into the water

Maintenance Schedule

Motor works noisy or unusual noise, 2 causes occurred	Possibility Causes	Solutions
Motor overheat	1. Impeller is locked caused by rust or sand	1. Open the head of pump and clean the Impeller
	2. Bearings are broken	2. Replace
Motor's round speed decreases	1. Capacitor is leak or melt	1. Replace
	2. Electricity Voltage is lower that usage coordinates	2. Check for electric current



Agricultural Accessories

Agricultural Accessories are a tool that facilitates the agriculture to be convenient, fast and reduce the work of agriculture. Applications can be divided into function of heavy duty accessories and light duty accessories e.g. tool for soil, watering plants and accessories used with rubber trees.

Agricultural Accessories

are tools for farmer that beside of water systems e.g. mesh, shovels, spraying accessories and other products.



9999-2



9999-3

Fruit Basket

Code Number	Color	Packing (piece)
9999-2	Black	1
9999-3	Green	1



820



820-B

Lawn Mower Blade Cover

Code Number	Size	Color	Packing (dozen)
820	Big	Red	1
820-B	Big	Black	1



Galvanized wire mesh prevent rusting

Code Number	Diameter (inch)	Width x Length (feet)	Number	Weight (kg.)
985-1	1/2"	3x80	25	5
985-2	3/4"	3x80	23	5
985-3	1"	3x80	22	5



Shovel (Mixed Colors)

Code Number	End Shape of Shovel	Weight (kg.)	Packing (dozen)
9700	Square Mouth Shovel	1.5	1
9701	Square Mouth Shovel	1.6	1
9702	Square Mouth Shovel	1.8	1
9710	Ground Work shovel	1.5	1
9711	Ground Work shovel	1.6	1
9712	Ground Work shovel	1.8	1

Spray Joints



Code Number	Packing (bag)
P-100-1	10

Spray Line



Code Number	Layer (Layer)	Lenght (Meter)	Packing (bag)
1-HS-R06	3	20	1
1-HS-R07	3	50	1
1-HS-R08	3	100	1
1-HS-R17	5	20	1
1-HS-R18	5	100	1

Cow Nose



Code Number	Number	Packing (bag)
U-5501	1	100
U-5502	2	100
U-5503	3	100

Basket



Code Number	Packing (bag)
9999	1

Piglets Faucets Plated Steel



Code Number	Packing (bag)
830-1	5

Gearhead Grass Chopper Machine



Code Number	Packing (box)
820-G	1

Clip Lock for Shade Net



Code Number	Size (inch)	Packing (box)
379-20S	1/2"	100
379-25S	3/4"	100
379-32S	1"	50



Rubber Trees Accessories

For agriculturer to plant the rubber trees, the Rubber Tree Accessories made of good quality material and not easy to broken.

Rubber Cup with Handle



Code Number	Size (g.)	Packing (bag)
898-6E	650	100
898-9E	900	100

Rubber Cup without Handle



Code Number	Size (g.)	Packing (bag)
898-16	1400	100

Latex PVC Tray



Code Number	Size (l.)	Packing (box)
808	5.5	20
808-1	8	20

Latex Net Spare Part



Code Number	Packing (bag)
811	1

Latex Spatula



Code Number	Packing (bag)
809	1

Latex Filter



Code Number	Packing (bag)
810	1

Latex Paddle PVC Handle



Code Number	Size (inch)	Packing (bag)
818	7.5"	1



Hardware Tools

Using the Hardware Tools to achieve efficiency, need to have the skills to use the For convenience and safety, Hardware Tools are divided by usage into 2 categories:-

1. Basic Hardware Tools e.g. hammers, screwdriver and saws, do not consist of a mechanical engine.
2. Specific Hardware Tools which consist of a mechanical engine. It is necessary to have the skills to use strictly. Users need to thoroughly study the usage data. Any mistakes occurs, can be danger to user.

Hardware Tools and Construction

Suitable for professional technicians. Available in various sizes and competitive price.



Hole Saw

Code Number	Size (millimeter)	Pack Size (box)
377-16HS	16	1
377-17HS	17	1
377-18HS	18	1
377-19HS	19	1
377-20HS	20	1
377-21HS	21	1
377-22HS	22	1
377-25HS	25	1
377-27HS	27	1
377-32HS	32	1



Tool Box For Shrimp Condo

Code Number	Pack Size (box)
TB006	1

TB001

TB002

TB003



Tool Box

Code Number	Size (inch)	Pack Size (box)
TB001	6"x9"x5"	80
TB002	8"x13"x6"	40
TB003	12"x18"x7"	15

Welding Machine



Inverter Welding Machine

Code Number	Power Voltage (V)	Rated Input Current (A)	No-Load Voltage (V)	Output Current (A)	Pack Size (box)
1-MMA-200	1phase AC220V	41	90	20-200	1
1-MMA-350	1phase AC220V	43	90	20-250	1
1-MMA-400	1phase AC220V	45	90	20-270	1



860



861

Welding Helmet

Code Number	Description	Pack Size (box)
860	Welding Helmet Handling	15
861	Welding Helmet	20



Mortar Plastic Hawk



Code Number	Weight (gram)	Pack Size (dozen)
9620	280	3

Plastic Trowel



Code Number	Weight (gram)	Pack Size (box)
9640	260	3

Concrete Plastic Container



Code Number	Weight (gram)	Pack Size (dozen)
9610	360	2

Rattan Plastic Buckets



Code Number	Weight (gram)	Pack Size (bag)
9630	467	20

Solid Plastic Buckets



Code Number	Weight (gram)	Pack Size (bag)
9631	581	20

Big Tub



Code Number	Size (liter)	Pack Size (leaves)
9650-1	210	1

Eaves



Code Number	Type	Pack Size (bag)
9989	Thick	10

O-Ring

O-Ring - Set

Made from flexible materials. It is resistant to pressure and heat. Used in machinery parts, automotive part and various mechanical components. O-RING is as seals for liquids or gases in the conveyor system and the O-RING. To be installed in parts by divided two types of seals as sealed for leakage protection of joints and rotary mobile devices.



O-RING

Code Number

Description

O-RING-B

O-RING (Blue Box) Millimeter

O-RING-R

O-RING (Red Box) Inch

Rubber Oil Protector

Abrasion Resistant

Flexible

Shock Absorber



Brass Connector

Brass Y - Female Thread



Code Number	Size (inch x inch)	Pack Size (bag)
P-44Y	1/4"x1/4"	10
P-45Y	1/4"x5/16"	10
P-46Y	1/4"x3/8"	10

Tee Female Thread



Code Number	Size (inch x inch)	Pack Size (bag)
P-44T	1/4"x1/4"	10
P-45T	1/4"x5/16"	10
P-46T	1/4"x3/8"	10

Brass - Type Tube Union



Code Number	Size (inch)	Pack Size (bag)
P-40T	1/4"	10
P-41T	5/16"	10
P-42T	3/8"	10
P-43T	1/2"	10

Brass Y - Connector



Code Number	Size (inch)	Pack Size (bag)
P-40Y	1/4"	10
P-41Y	5/16"	10
P-42Y	3/8"	10
P-43Y	1/2"	10

Brass Straight Male Connector



Code Number	Size (inch x inch)	Pack Size (bag)
P-24	1/4"x1/4"	10
P-25	1/4"x5/16"	10
P-26	1/4"x3/8"	10
P-27	1/4"x1/2"	10
P-28	3/8"x1/4"	10
P-29	3/8"x5/16"	10
P-30	3/8"x3/8"	10
P-31	3/8"x1/2"	10
P-32	1/2"x1/4"	10
P-33	1/2"x5/16"	10
P-34	1/2"x3/8"	10
P-35	1/2"x1/2"	10

Brass Straight Female Connector



Code Number	Size (inch x inch)	Pack Size (bag)
P-01	1/4"x1/4"	10
P-02	1/4"x5/16"	10
P-03	1/4"x3/8"	10
P-04	3/8"x1/4"	10
P-05	3/8"x5/16"	10
P-06	3/8"x3/8"	10
P-07	3/8"x1/2"	10
P-08	1/2"x1/4"	10
P-09	1/2"x5/16"	10
P-10	1/2"x3/8"	10
P-11	1/2"x1/2"	10

Brass Straight Connector



Code Number	Size (inch)	Pack Size (bag)
P-36	1/4"	10
P-37	5/16"	10
P-38	3/8"	10
P-39	1/2"	10

Brass Connectors

Brass Reducer Female Thread



Code Number	Size (inch x inch)	Pack Size (bag)
P-16	1/8"	10
P-17	1/4"	10
P-18	3/8"	10
P-19	1/2"	10
P-20	1/4"x1/8"	10
P-21	3/8"x1/4"	10
P-22	1/2"x1/4"	10
P-23	1/2"x3/8"	10

Brass Nipple



Code Number	Size (inch x inch)	Pack Size (bag)
P-47	1/4"	10
P-48	3/8"	10
P-49	1/2"	10
P-62	3/4"x1/2"	10
P-63	3/4"	10
P-50	1/4"x1/8"	10
P-51	3/8"x1/4"	10
P-52	1/2"x1/4"	10
P-53	1/2"x3/8"	10

Brass Reducer Male - Female



Code Number	Size (inch x inch)	Pack Size (bag)
P-12	1/4"x1/8"	10
P-13	3/8"x1/4"	10
P-14	1/2"x1/4"	10
P-15	1/2"x3/8"	10
P-15-1	3/4"x1/2"	10
P-15-2	1"x1/2"	10
P-15-3	1"x3/4"	10
P-65	1/2"x1"	10

Brass Straight Male - Female



Code Number	Size (inch)	Pack Size (bag)
P-61	1/2"	10

Brass Eng - Plug Male Thread



Code Number	Size (inch)	Pack Size (bag)
P-54	1/8"	10
P-55	1/4"	10
P-56	3/8"	10
P-57	1/2"	10

Brass Elbow 90° Female



Code Number	Size (inch)	Pack Size (bag)
P-60	1/2"	10

Brass Elbow 90° Male Female



Code Number	Size (inch)	Pack Size (bag)
P-59	1/2"	10

Brass Tee Female



Code Number	Size (inch)	Pack Size (bag)
P-58	1/2"	10



Safety Helmet

Safety Helmet made of specially formulated polymer for enhanced strength and durable conform to TIS. 368-2554. The body of Safety Helmet can be well absorb impact. Contains of foam material. Comes with nylon head band is made of non-irritant, exibility and comfortable. Can be adjustable to suit most head sizes.



ABS Safety Helmet Medium Size (Slide Lock)

Code Number	Description	Pack Size (box)
SC-03ABS-WL	Construction Helmet TIS. White	20
SC-03ABS-BL	Construction Helmet TIS. Blue	20
SC-03ABS-ORL	Construction Helmet TIS. Orange	20
SC-03ABS-YL	Construction Helmet TIS. Yellow	20



ABS Safety Helmet Medium Size (Ratchet)

Code Number	Description	Pack Size (box)
SC-03ABS-WR	Construction Helmet TIS. White	20
SC-03ABS-BR	Construction Helmet TIS. Blue	20
SC-03ABS-ORR	Construction Helmet TIS. Orange	20
SC-03ABS-YR	Construction Helmet TIS. Yellow	20

HDPE Safety Helmet Medium Size (Slide Lock)

Code Number	Description	Pack Size (box)
SC-03HDPE-WL	Construction Helmet TIS. White	20
SC-03HDPE-BL	Construction Helmet TIS. Blue	20
SC-03HDPE-ORL	Construction Helmet TIS. Orange	20
SC-03HDPE-YL	Construction Helmet TIS. Yellow	20



HDPE Safety Helmet Medium Size (Ratchet)

Code Number	Description	Pack Size (box)
SC-03HDPE-WR	Construction Helmet TIS. White	20
SC-03HDPE-BR	Construction Helmet TIS. Blue	20
SC-03HDPE-ORR	Construction Helmet TIS. Orange	20
SC-03HDPE-YR	Construction Helmet TIS. Yellow	20

Safety Helmet Small Size (Slide Lock)

Code Number	Description	Pack Size (box)
SC-02W	Construction Helmet White	24
SC-02B	Construction Helmet Blue	24
SC-02OR	Construction Helmet Orange	24
SC-02Y	Construction Helmet Yellow	24

Safety Helmet Medium Size (Slide Lock)

Code Number	Description	Pack Size (box)
SC-03WL	Construction Helmet White	20
SC-03ORL	Construction Helmet Blue	20
SC-03YL	Construction Helmet Orange	20
SC-03B	Construction Helmet Yellow	20

Water System Design

1 Study the needs of plants and soil conditions for crop cultivate

First, need to know the needs of the crop cultivate, it is because each plant has different on water requirements, such as orange has a water requirement of 5 ml. per day, corn has a water requirement of 7 ml. per day.

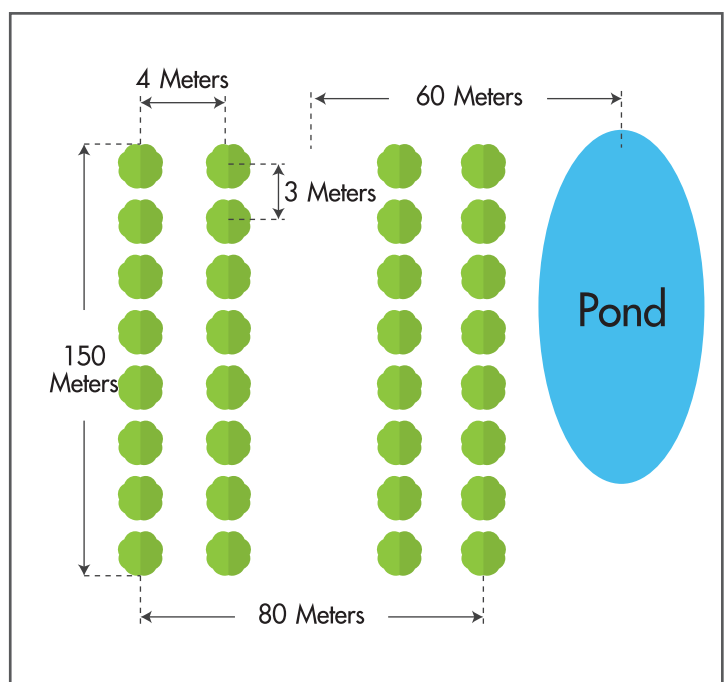
Second, need to know the nature of the soil, it is because each types of soil have the ability to absorb water and different of the water permeability rate in soil as shown in the table below.

Soil Type	Water Permeability Rate in Soil (ml./hr.)
Sandy	25 - 50
Sandy Loam	18 - 25
Loam	12 - 18
Clay Loam	6 - 8
Clay	2 - 5

If we plants are grown in rapidly water permeability rate area in soil such as sandy loam, need to watering in greater quantities in order to compensate for the loss of water from the root zone.

2 Draw a project plan or farm planted

Draw a project plan or a farm planted on paper. Provide the necessary details such as the location of the pond or water tank, planting crop, spacing between crops, spacing between plots, space distance from pond to the middle crop. Type of crop cultivate must be evacuated, buildings must be dodged the pipes, terrain is pond or mountainous by deawing on the correct scale to make it easy. To the design of the water dispenser the pipe system as per example



3 Select the appropriate water dispenser.

Choosing the appropriate water dispenser depends on many factors such as the terrain of crop cultivate. The amount of water required for planting, spacing between crops, the height of the plants, beautifulness, as well as the budget used. The difference between each type of water dispenser as shown in the table below.

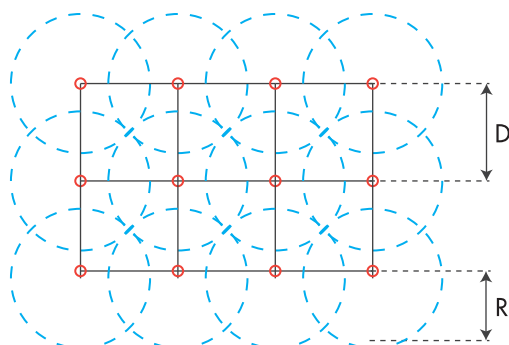
Water Dispenser	Voloum of Water (Liter/Hour)	Radius (Meter)	Pressure (Bar)	Proper Usability
Dripper	1-15	0.1-0.7	0.5-2	Growing plants in pots or not in row. Dripper can be connected to Micro Tube to access various areas and suitable for growing horticultural or vegetable crops, strawberries and grape.
Fogger	5-30	0.5-2	1-4	Suitable for gardening mushrooms or to reduce temperature in the farm.
Jet Sprayer	50-200	0.5-3	0.5-2	Suitable for shrubs, plants are not high or planted along the fence and along the housing.
Mini Sprinkler	50-200	0.5-3	0.5-2	Horticultural or vegetable crops that require moderate water, planted in rows in distance of 2-4 meters.
Sprinkler	300-900	3-5	1-3	Garden plants, fruit trees or large trees with large long spaces.
Impact Sprinkler	500-5,000	8-20	1.5-5	Watering large areas such as lawns or horticultural crops.
Sprinkler BIG GUN	3,000-200K	10-50	1.5-9	Plants that require a lot of water, wide areas such as meadows, corn fields, football fields and golf courses.
Drip Tape	1-3	0.1-0.7	0.5-1	Planted in rows, regular spacing, crop cultivate area is low land, the advantage is to save water, saving sub pipe, little of weed, suitable for growing sugarcane, corn, cassava and etc.
Sprayer Tape	20-60	0.5-3	0.5-1	Planted in rows, focusing on affordable water systems, plants that need to be grounded at the end of the season, Sprayer Tape is easy to fold and store.

In one system, there may be several types of water dispensers. It depends on the suitability of the crop and the crop cultivation. But in the same watering zone, the same type of dispenser should be used. This will make it easier to control the pressure in the system. Alternatively, try to select a water dispenser pressure operated water supply as same in order to fully efficiency usage.

4 Determination of the position and spacing of the dispenser.

Determine the position of the water supply into the draw flange as shown in the article 2 as follows :-

4.1 **In case of crop plants in row**, the distance of the water dispenser should be 1.4 times of water radius and the distance between the head should be equal.

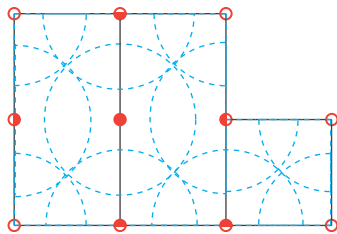


$$D = 1.4 \times R$$

D = Distance Between the Dispensers

R = Irrigation Water Dispenser Radius

4.2 In case of crop cultivation plants not in row or curve area, set the position of the dispenser from the right corner (90 degrees watering), then set at the edge (180 degrees watering) and come to the center of the water to 360 degrees. When drawing the radius of water, the circle must be stacked and no space area get less of water.



○ = 90° Water Level

● = 180° Water Level

● = 360° Water Level

4.3 In case of watering at bottom of plants, Dripper or Dispenser System at bottom of plants. Draw one head dispenser per plant by selecting the dispenser ensuring that the radius of the dispenser covers the radius of the bottom spread. If it is a Drip Tape, should choose the hole distance according soil types. The spacing must be sufficient to consistently wet in strip.

5 Divide the watering zone.

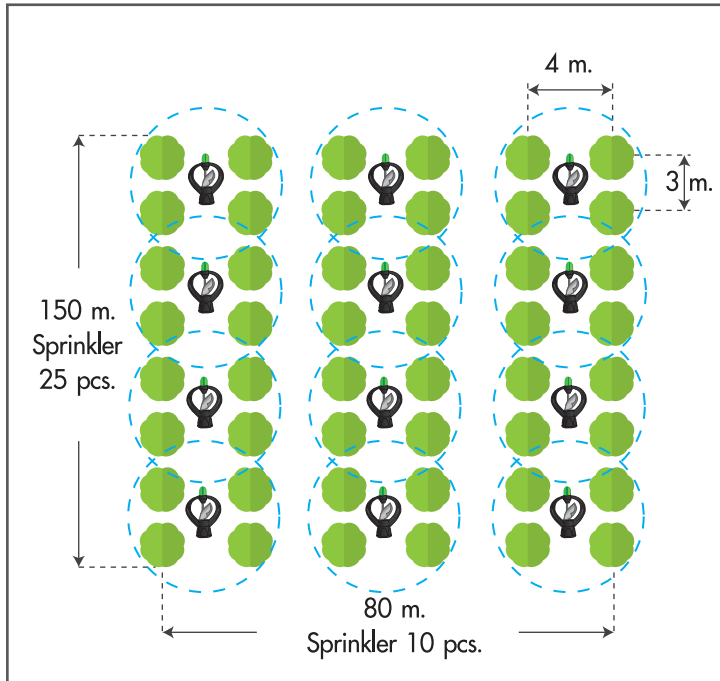
Causes for divide the watering zone, they have 2 reasons.

1. **Crop cultivation plots have a large size.** If the watering all plots in the same a high cost for setting the system. In addition, there are too many dispensers in the tube. It will make the lower pressure. The volume of water came out less than the beginning of pipe, it will make irregularly water flow.
2. **Crop cultivation plots have different types of water dispensers with different operating pressure.** In the same pipe It is necessary to install the same type of dispenser in order to control the pressure easily. If there are several types of water dispensers, should be divided in zones to obtain appropriate operating pressure for each dispenser.

Dividing in zone must be installed the valve at head of zone in order to use turn on-off the water in each zone. The principles of divided in zone are as follows.

1. It has already got the water pump installed, each zone must use the pressure and water volume of the water pump as appropriately of capacity of water pump. (See how to read the pump value on page no.7)
2. Number of water dispensers per sub pipe must not too large volume, the water volume at the end of the sub pipe shall be different from the pipe head not exceeding 10%
3. The volume of water used in each zone must be similar in order to selection of water pumps easily.
4. Calculate the volume of water demand in each zone, follow the sample in next page.





Crop Cultivation Plots in Size of 150 x 80 m.

Length Distance of Planting in Apart 3 Meters 50 Plants

Width Distance of Planting in Apart 4 Meters 20 Plants

Sprinkler per Head for Watering 5 Liters/Min, 4 Meters Radius

Number of Total Sprinkler $25 \times 10 = 250$ Heads

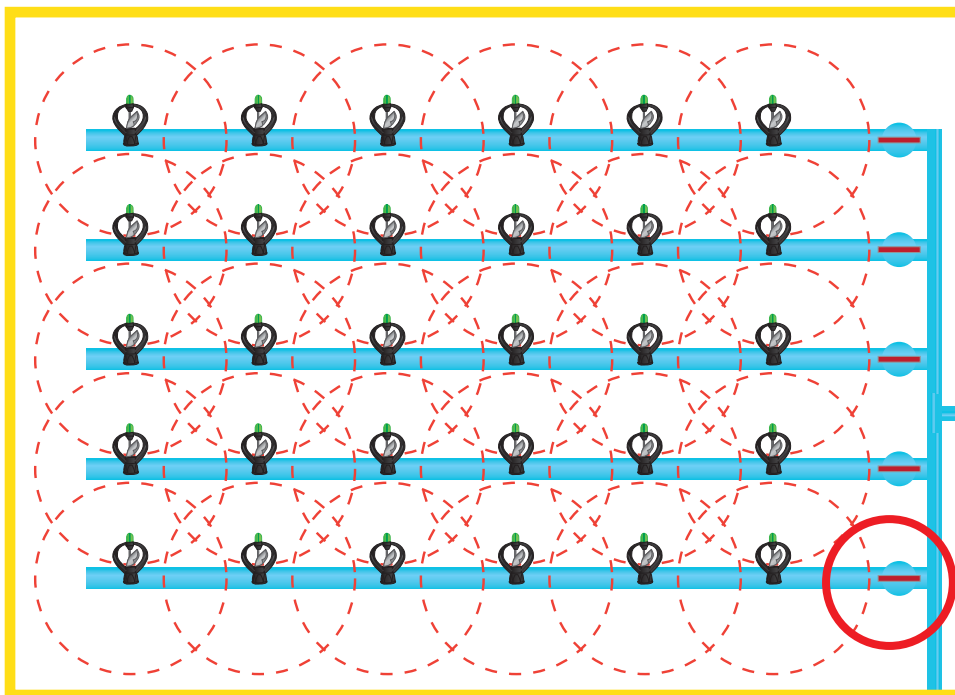
Use of the Water Volume of $250 \times 5 = 1,250$ Liters/Minute

If there are the water pump 2HP, will provide the water volume of 300 liters/minute and divided into 5 zones.

The water volume per zone $1,250/5 = 250$ Liters/Minute.

If the sub-pipeline is aligned in long line, there will be 25 sprinklers in one row, which require a very large water pipe (50mm pipe in accordance with the table in figure 6) and the water at the end of the pipe is very different from the pipe head.

If the sub-pipeline is aligned in wide line, there will be 10 sprinklers in one row. Therefore, should be divided zone by wide line.



Installed Valve at Head Zone for Turn On-Off Water in Each Zones

The head of sub-pipeline should be attached the valve in order to adjust the pressure. It makes all sub-pipeline have a similar water dispenser rate.

Divide the zone along the width so that the water volume from the sprinkler head and the end of the pipe are similar and reduce the size of the sub-pipeline.

6 Choose the size of pipe and main pipe

There are two main types of pipe : PE Pipe and PVC Pipe. In agricultural plots have a lot of amount of sub-pipeline, then, the total of length of pipe is quite huge. Therefore, it is advisable to use PE Pipe, it is because no need to use more connectors for more saving. Also, PE Pipe has high flexibility, resistant to pressure. The size of the sub-pipeline must be selected from the combined water used for the whole zone. If there are several zones, choose the main pipe size according to the water volume used in most usage of water zones.

PE Pipe			PVC Pipe		
PE Size (mm.)	Max. Flowing Rate (L/Hr)	Max. Flowing Rate (ml./Hr)	PVC Pipe (inch)	Max. Flowing Rate (L/Hr)	Max. Flowing Rate (ml./Hr)
16	1.046	1.05	1/2	1.405	1.41
20	1.635	1.63	3/4	2.054	2.05
25	2.591	2.59	1	3.819	3.82
32	4.499	4.49	1 1/4	6.127	6.13
40	7.009	7.00	1 1/2	7.992	7.99
50	10.952	10.95	2	12.464	12.46
63	17.488	17.49	2 1/2	20.200	20.20
75	24.792	24.79	3	27.700	27.71
90	35.665	35.66	4	45.538	45.54
110	53.228	53.23	5	68.649	68.65
125	68.701	68.70	6	95.464	95.46

For example, the sub-pipeline have installed of the 10 sprinklers, each of sprinklers have a water capacity of 5 liters/min or equal to $300 = 3,000$ liters/hr. Therefore, the volume of water in the sub-pipeline is $10 \times 300 = 3,000$ liters/hr. If uses the PE Pipe as per table is between 25 mm and 32 mm, we should choose the size of the pipe bigger than desired, It should be in size of 32 mm.

Main pipes are calculated from the water volume for all zones. There are 5 rows, 10 Sprinklers per row, totally 50 Sprinklers. The water volume requirement is equal to $50 \times 300 = 1,500$ liters/hour. If using PVC 2 1/2 inch, will provide sufficient water flow. The main pipe will be more length size. It must be connected to the water pump located near the water source away from the plots. The main pipe should be extra 1 size, it should be choosing in size of 3 inches.

If choose the pipe is too small, the flow rate is not enough and loss of pressure in the system. Because of the small pipe will have a lot of friction inside the pipe. It should be choosing a pipe bigger than the system required.



7 Select Water Pump

7.1 Select the pump type depends on the water source. If the surface water source, such as streams, ponds, ponds with a depth not exceed than 6 meters, should be used Centrifugal Pump. If the water source is groundwater with a surface depth of exceed than 6 meters, the pump should be used Submersible Pump.

7.2 Select the water pump size, the size of water pump depends on the water quantity (Q) and the head water pressure in the system (Head).

The water quantity (Q) unit is liter or m^3/h . It is water pump rate to pump up the water from the pond and send water into the system.

The head water pressure in the system (Head) unit is PSI or bar. Head is the total pressure in the pump system is required for using. The pressure in the system loses many parts, such as sending water up to the sprinkler head. Loss of internal friction and loss of connectors and equipment. If the pump head is 20 meters, the pump can send the water up in vertical to 20 meters or 2 bars.

Calculate the water quantity (Q), calculate the water demand of the zone that needs maximum water.

For example, there are 50 sprinklers per zone, each of sprinkler can dispense of 5 liters of water per minute. The water requirement is $50 \times 5 = 250$ liters/minute.

Calculate the head water pressure in the system (Head), calculated from the formula.

Pressure System = Operating Pressure of Sprinkler Head + Vertical Height to be Transmitted + Loss of Pressure from Connectors and Equipment

For example, the sprinkler has a working pressure of 1.5 bars, the area is horizontal, so there is no loss of water from dispenser the water to height area. The system has a standard equipment, then add 50% for loss of joints and equipment.

The system has a pressure in the system = 1.5 bars x 1.5 times = 2.25 bars or 22.5 meters.

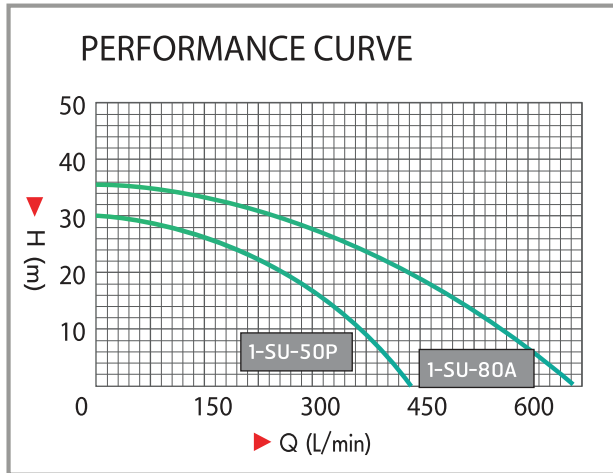
After got the Q Rate and Head rate, then select the pump from the Performance Curve or Specification indicated inside box or pad on water pump.

WATER PUMP					
MODEL: KE-50					
N.					
Inlet/Outlet: 1" x 1"			SUCT max 8 m		
H max 30 m		Qmax 30 l/min			
1 ~ Mot. V 220		Hz 50		2850 Min ⁻¹	
KW 0.37		HP 0.50		2.3 A 380 Wmax	
C 10 μF		VL 450 V		ICL F IP 54	
CE		continuous duty		Thermally Protected	

Inlet 1"	: Pump Inlet 1 Inch.
Outlet 1"	: Pump Outlet 1 Inch.
SUCT max	: Suction Maximum 8 Meters
H max 30 m	: Height Maximum 30 Meters
Q max 30 L/min	: Water Quantity 30 Litres
1~ V220 Hz50	: 1 Phase, Pressure 200 Voltages
KW 0.37	: Power 0.37 Kilowatts
HP 0.50	: 0.50 HP

Specification is mostly indicated on pump, will display the maximum value. But the real time, should be used at the central of the pump capacity chart. If there is no graph, it should be used to reduce the half of the maximum water volume such as $Q = 15$ liters/minute only.

Select water pump from pump capability chart. Select the center of the curve. Follow the example below.



For example, the system requires of :-

The water quantity (Q) = 250 liters/min.

The head water pressure in the system (Head) = 22.5 meters

From the graph of Water Pump Model 1-SU-50P at Q 250 L/Min, the H value at 19 m. is not sufficient for the system. Therefore, must used the Water Pump Model 1-SU-80A, will have a H Value of 28 meters at 250 liters/min.

TIPS

Accessories Helps to Prolong Lifetime in Water Systems Usage

1. Foot valve to filter the waste before entering the pump and the water storage closure at the pump.
2. Strainer (Coarse Filter), to install before pump, to filter of debris, gravel, sand into break the pump impeller.
3. Strainer (Fine Filter), to filter a small dirt. To avoid clogging the water dispenser.
4. Check Valve to prevent water flow back into the pump. It cause of pump broken.
5. Pressure Gauge, to check the water pressure, to see what there have any clogged our water system?
6. Foot Valve should be at least 4 times lower than water level of pipe size, such as 2 inch of pipe. Foot valve should be lower than water level surface not less than 8 inches.

Foot Valve should be at least 4 times lower than water level of pipe size

1. The Water Pump should be nearest the water surface.
2. The Water Pump should be rely secured to the base to the base to prevent moving from vibration.
3. The length horizontal of Suction Pipe should not be less than 6 times the Suction Pipe diameter.
4. The end of Suction Pipe must be dipped into the well 4 times the diameter of the pipe.
5. The Suction Pipe should be at least one size larger than the water inlet of the pump.

TIPS

How to install the Water Pump and Suction Pipe





TIPS

How to connect the Valve wear over the PVC Pipe and in the Fitting



How to connect the Valve wear over the PVC Pipe

Prepare the PVC Pipe in size of 1/2" and prepare the valve for connecting to PVC Pipe in size of 1/2"



How to connect the Valve wear over the PVC Pipe

Then, PVC Adhesive the end of the pipe and then wear the valve over the pipe. Wait until the PVC Adhesive to dry as finished.



How to connect the Valve in the fitting

Prepare the PVC Pipe in size of 1/2" and prepare the Valve put into the fitting in size of 1/2"



How to connect the Valve in the fitting

Then, PVC Adhesive the end of the pipe and then put the Valve into the fitting. Wait until the PVC Adhesive to dry as finished.



TIPS

USEFUL HINT : ADDITIONAL INFORMATION

Unit of Water Volume

1 Cubic meter	= 1,000 Liters
1 Liter/Minute	= 60 Liters/Hour
1 m ³ /Hr.	= 16.67 Liters/Minute

Unit of Area

1 Rai	= 4 Square
1 Ngan	= 100 Square Wa
1 Rai	= 400 Square Wa
1 Rai	= 1,600 Square Meter

Unit of Pressure Gauge

1 Bar	= 10 Water Meters
1 Bar	= 100 kPa

Unit of Power

1 Horsepower (hp) = 0.75 Kw

Unit of Measuring length

1 Meter	= 100 Centimeters
1 Inch	= 2.54 Centimeters
1 Foot	= 12 Inches
1 Foot	= 30.5 Centimeter
1 Share	= 1/8 Inches
1 Share	= 0.32 Centimeters

Irrigation Rate

Water Hole Spray Nozzle	1 Bar (L/Hr)	2 Bars (L/Hr)	2.5 Bars (L/Hr)	3 Bars (L/Hr)
0.4	7.2	7.2	10.8	10.8
0.5	10.8	14.4	14.4	18.0
0.6	14.4	18.0	21.6	25.2
0.7	18.0	25.2	28.8	32.4
0.8	25.2	36.0	39.6	43.2
0.9	32.4	43.2	50.4	54.0
1	39.6	54.0	61.2	68.4
1.5	86.4	122.4	136.8	151.2
2	154.8	219.6	244.8	270.0
2.5	241.2	342.0	387.6	421.2
3	349.2	493.2	550.8	604.8
3.5	475.2	973.2	752.4	824.4
4	619.2	878.4	982.8	1,076.4
4.5	748.8	1,108.8	1,242.0	1,360.8
5	968.4	1,371.6	1,533.6	1,677.6

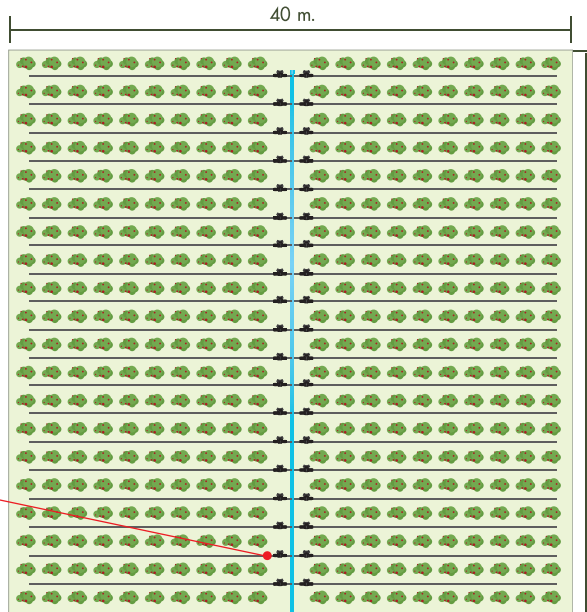
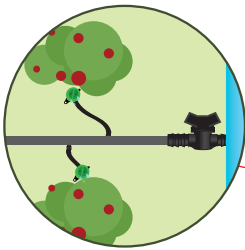


Planting Patterns in 1 Rai Area

“DRIPPER” System is suitable for plants less of water and using in watering in Specific area. Reduce weeds.



Drip head position recommended



40 m.

40 m.

Connected to Upstream System

- | | |
|--|--------------------------|
| 1. PVC Pipe Thickness llayer 8.5 Size 2" | 13 Lines (Each Line 4 m) |
| 2. PVC Elbow 2" | 3 Pieces |
| 3. PVC Socket Female Thread 2" | 4 Pieces |
| 4. PVC Socket Male Thread 2" | 2 Pieces |
| 5. PVC Cap 2" | 1 Piece |
| 6. PE Pipe 16 mm. PN2.5 | 300 Meters |
| 7. Rubber Gasket Valve PE Pipe 16x20 mm. | 40 Pieces |
| 8. PE Grip PE 16 mm. | 40 Pieces |
| 9. Micro Tube 5/7 mm. | 800 Meters |
| 10. Micro Tube Connector | 400 Pieces |
| 11. Clamp PE 16 mm. | 40 Pieces |
| 12. Dripper Adjustable | 400 Pieces |

The advantages of setting up the “Dripper” System, can be connected to the water dispenser at various positions as required. Resistant to bitten by animals and insects from crop cultivate plot.

Distance between rows and between in area of 2x2 meters, will have the plants 400 plants per rai

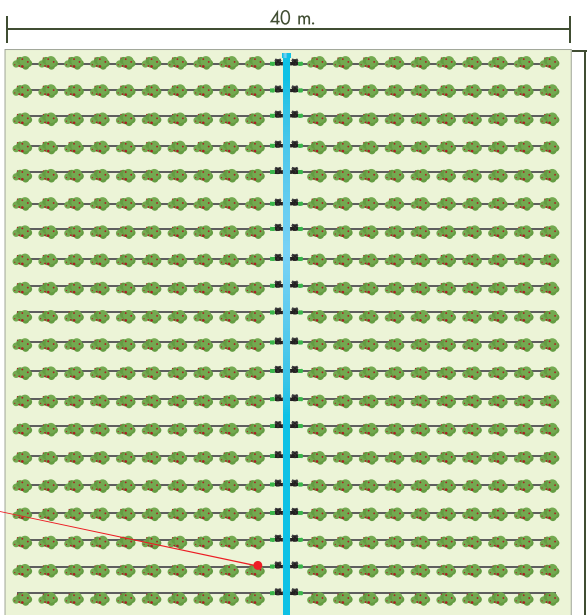
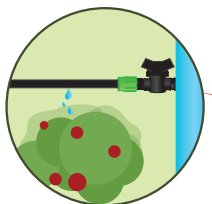
Planting Patterns in 1 Rai Area

“DRIP TAPE” System is suitable for plants need less of water and using in watering in specied area. Reduce weeds.



Drip Tape and Inner Tape

Distance between rows and between plants in area of 2x2 meters, will have the plants 400 plants per 1 rai.



40 m.

40 m.

Connected to Upstream System

- | | |
|--|------------|
| 1. PVC Pipe Thickness layer 8.5 Size | 13 Lines |
| 2. PVC Elbow 2" | 3 Pieces |
| 3. PVC Socket Female Thread 2" | 4 Pieces |
| 4. PVC Socket Male Thread 2" | 2 Pieces |
| 5. PVC Cap 2" | 1 Piece |
| 6. Drip Tape Hole Distance by Type of Soil and Plants. | 400 Meters |
| 7. Permeate Valve-Drip Tape Size 16x16.5 mm. | 40 Pieces |
| 8. Connection Coupling Drip Tape 16.5 mm. | 40 Pieces |



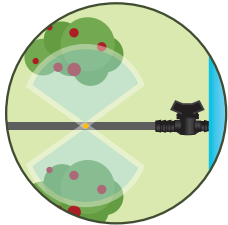
The advantages of setting up the “DRIP TAPE” System is install and reasonable price. Providing period of water droplet by regularly and durability of the system average about 1-2 years according to usage.

Planting Patterns in 1 Rai Area



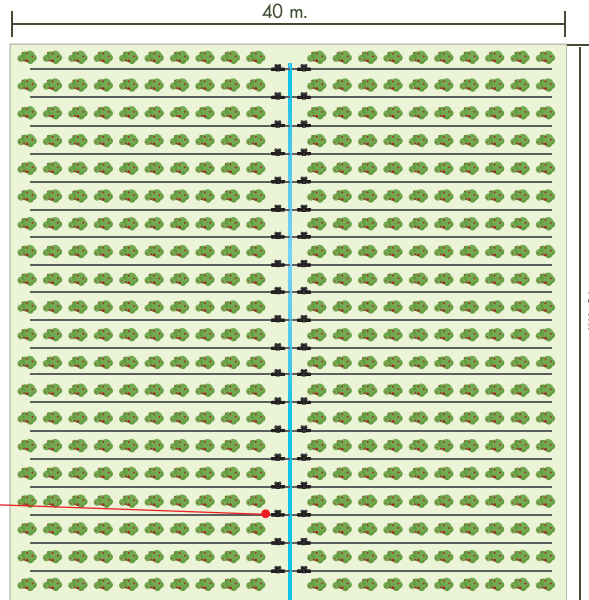
Mini Sprinkler with Spike and Spray Nozzle

Distance between rows and between plants in area of 2x2 meters, will have the plants 400 plants per rai.



The advantages of setting up the Spray Nozzel System, it is spread fuzzi water. The use of Mini Sprinklers provides the water around direction. The product longlife is average about 2-3 years according to usage.

“Spray Nozzle” or “Mini Sprinkler” Systems are suitable for garden plants and shrubs. Plants need water about 80-120 liters/hour with a distance space of crop cultivate plot of 0.5-3 meters.



Equipment to be used for Water System Design in 1 Rai (not including upstream system) and the equipment that the technician used to connect.)

- | | | |
|--|-----|-----------------------|
| 1. PVC Pipe Thickness Layer 8.5 Size 2" | 13 | Lines (Each Line 4 m) |
| 2. PVC Elbow 2" | 3 | Pieces |
| 3. PVC Socket Female Thread 2" | 4 | Pieces |
| 4. PVC Socket Male Thread 2" | 2 | Pieces |
| 5. PVC Cap 2" | 1 | Piece |
| 6. PE Pipe 16 mm. PN2.5 | 300 | Meters |
| 7. Rubber Gasket Valve PE Pipe 16x20 mm. | 40 | Pieces |
| 8. PE Grip PE 16 mm. | 40 | Pieces |
| 9. Clamp PE 16 mm. | 40 | Pieces |
| 10. Buttery Nozzle Spray Size 5-7 mm. | 200 | Pieces |
| 11. Mini Sprinkler with Spike | 200 | Pieces |

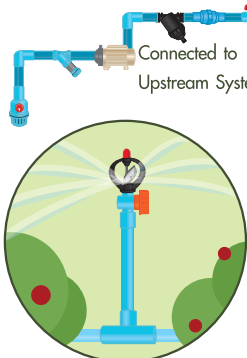


Planting Patterns in 1 Rai Area

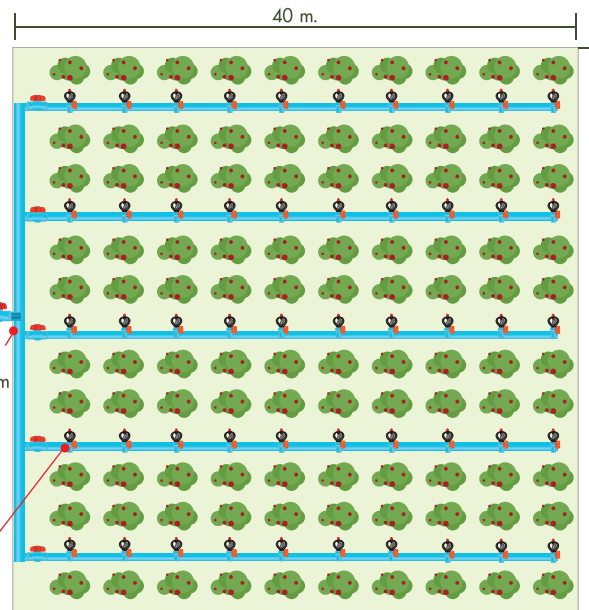


Sprinkler with Valve

Distance between rows and between plants in area 4x4 meters, will have the plants 100 plants per rai



“Sprinkler” Systems are suitable for plants need water about 500-900 liters/hour with a distance space of crop cultivate plot of 3-5 meters.



Equipment to be used for Water System Design in 1 Rai (not including upstream system) and the equipment that the technician used to connect.)

- | | | |
|---|-----|-----------------------|
| 1. PVC Pipe Thickness Layer 8.5 Size 2" | 10 | Lines (Each Line 4 m) |
| 2. PVC Pipe Thickness 8.5 Size 1/2" | 100 | Lines (Each Line 4 m) |
| 3. PVC Elbow 2" | 2 | Pieces |
| 4. PVC Reducing Elbow 2"x1/2" | 2 | Pieces |
| 5. PVC Reducing Tee 2"x1/2" | 3 | Pieces |
| 6. PVC Ball Valve 1/2" | 5 | Pieces |
| 7. PVC Tee Fitting 1/2" | 95 | Pieces |
| 8. PVC Elbow 1/2" | 5 | Pieces |
| 9. PVC Sprinkler with Valve 1/2" | 100 | Pieces |
- *PVC Pipe Thickness Layer 8.5 Size 1/2" Cut into Piece Each of 50 cm. Total 100 pieces.
(Use 50 pipeline and another 50 pipeline for piping system)



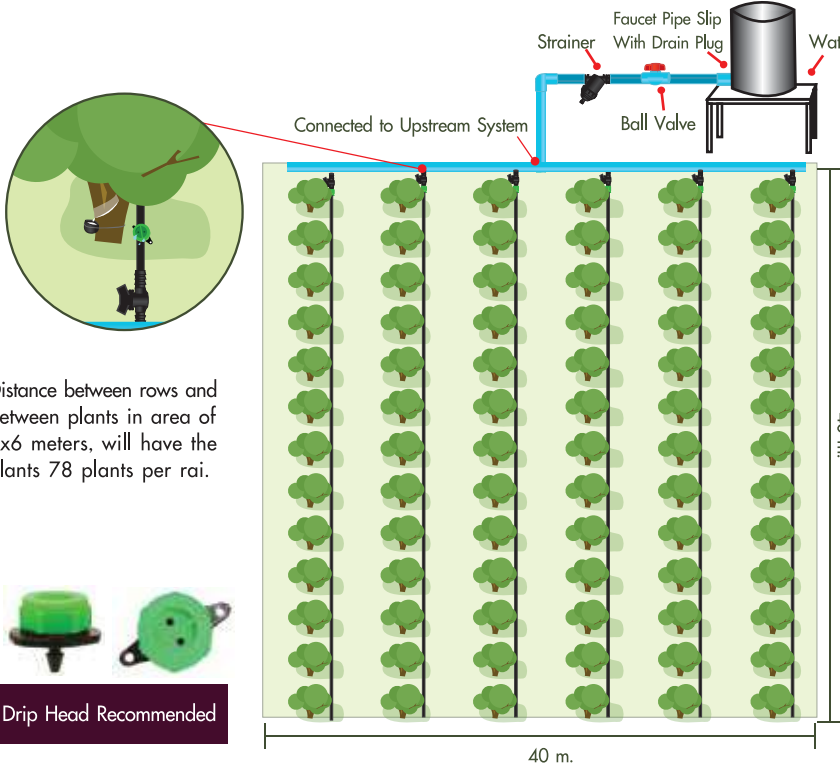
The advantages of setting up the “Sprinkler” System is durability of the system average about 5 years and can maintenance of the water dispenser on particularly points that damage occurred.



Irrigation System for Rubber Plants in 1 Rai Area

“DRIPPER” System is Suitable for cultivated areas with limited water content.

Equipment to be used for Water System Design in 1 Rai (not including upstream system) and the equipment that the technician used to connect.)



- | | | |
|---|-----|--------|
| 1. PVC Pipe Thickness Layer 8.5 Size 2" | 10 | Lines |
| 2. PVC Cap size 2" | 2 | Pieces |
| 3. PE Pipe 16 mm. PN 2.5 | 240 | Meters |
| 4. Rubber Gasket Valve PE Pipe size 16x20 mm. | 6 | Pieces |
| 5. PE Grip Size 16 mm. | 6 | Pieces |
| 6. PE Clamp Size 16 mm. | 6 | Pieces |
| 7. Dripper Adjustable | 78 | Pieces |

Distance between rows and between plants in area of 3x6 meters, will have the plants 78 plants per rai.

The advantages of setting up the “DRIPPER” is low cost and providing period of water droplet about 5-10 liters per hour. Soil has wet in spot. If soil depth about 50-60 cm. (watering 3 hours), will have a soil humidity of to 3-4 days

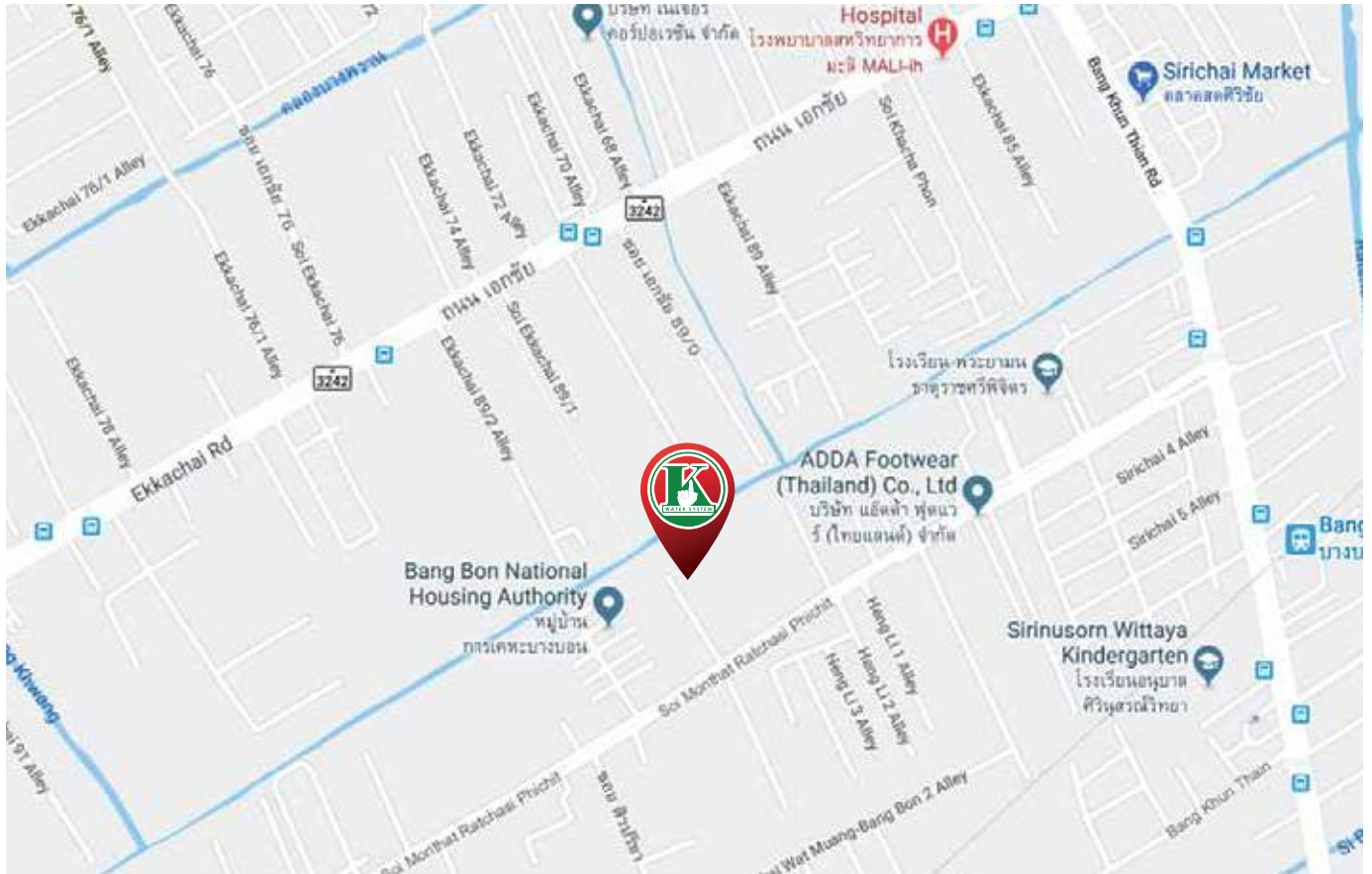


TIPS

General Knowledge

Water or Irrigation System Design should choose the main pipeline and sub-pipeline to suit the agricultural cultivate plots. By considering based on the amount of water required in each zone and see the appropriate pipeline size. It will help us more cost saving.

Contact Us



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