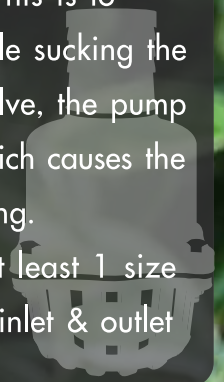




## Foot Valve

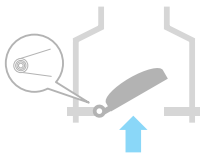
is the equipment which is installed at the end of the suction hose or pipe. This valve operates similar to Check Valve, prevents the water's drainage from the suction hose. This is to empower the pump while sucking the water. Without Foot Valve, the pump will suck only the air which causes the heat and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

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



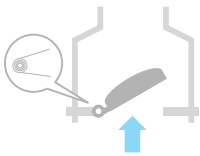
# Foot Valve

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.



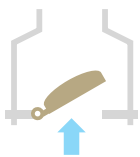
## Foot Valve with Plastic Lid with Suction Hose Connector (Black)

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



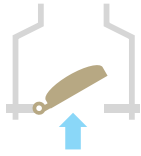
## Foot Valve with Plastic Lid with Suction Hose Connector (Blue)

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



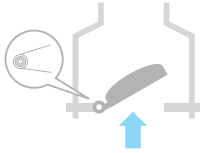
## Foot Valve with Metal Lid with Suction Hose Connector (Black)

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



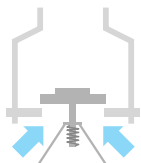
Foot Valve with Metal Lid with Suction Hose Connector (Blue)

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)

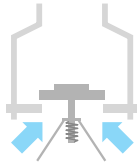
Code Number	Size (inch)	Pack Size (box)
201-65	2 1/2"	24
201-75	3"	24



Foot Valve with Plastic Lid with Suction Hose Connector

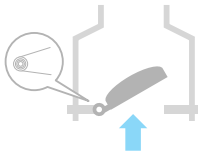
Code Number	Size (inch)	Color	Pack Size (box)
233-50D	2"	black	24
233-50C	2"	blue	24





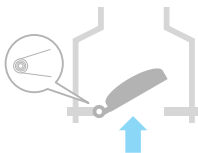
## Foot Valve with Plastic Lid PVC pipe and Fitting (Blue)

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



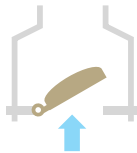
## Foot Valve with Plastic Lid PVC pipe and Fitting

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



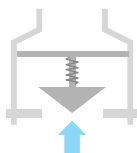
## Foot Valve with Plastic Lid PVC pipe and Fitting

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

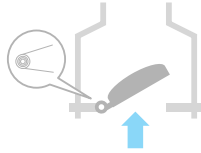
Code Number	Connecting Size (inch)		Pack Size (box)
	connect to pipe	connect to fitting	
235-S	2 1/2"	3"	12
236-S	N/A	4"	6



## Foot Valve with Plastic Lid PVC pipe and Fitting

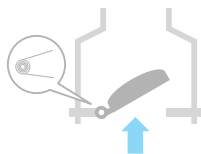
Code Number	Connecting Size (inch)		Remark	Pack Size (box)
	connect to pipe	connect to fitting		
232	3/4"	1"	Into Deep Well	100
236	1 1/2"	2"	Into Deep Well	5

Foot Valve with Plastic Lid Female Thread (Black)



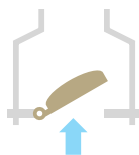
Code Number	Size (inch)	Pack Size (box)
212	2"	24
212-L	2" (large)	24
212-B	2" (large hose)	12
212-50	2 1/2"	24
213	3"	24
213-L	3" (large)	12
213-B	3" (large hose)	6
214	4"	12
214-L	4"	6

Foot Valve with Plastic Lid Female Thread (Blue)



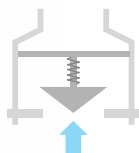
Code Number	Size (inch)	Pack Size (box)
212-LA	2"	24
212-50A	2 1/2"	24
213-LA	3"	12
214-A	4"	12
214-LA	4"	6

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)

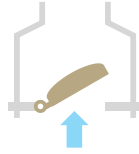


Code Number	Size (inch)	Remark	Pack Size (box)
231-25	1"	Into Deep Well	5
231-50	2"	Into Deep Well	24

231-25

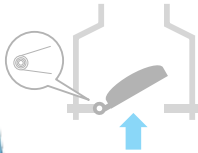
231-50





## 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)

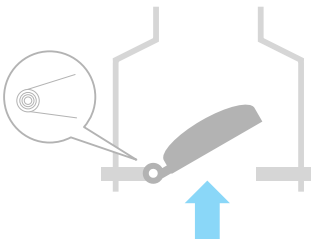
Code Number	Size (inch)	Pack Size (box)
200-65	2 1/2"	5
200-75	3"	4
200-100	4"	4



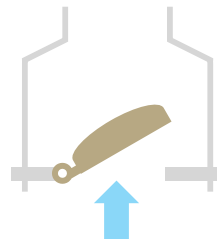
## TIPS

## Sample of each Valve types of Foot Valve.

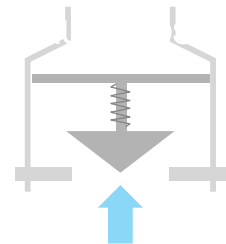
Valve Spring



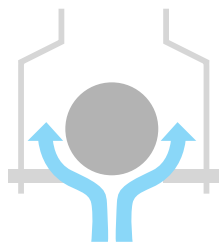
Valve Metal



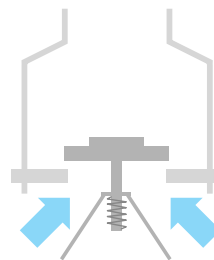
Tapered Valve Spring



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 <sup>3</sup> /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 <sup>3</sup> /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 <sup>3</sup> /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

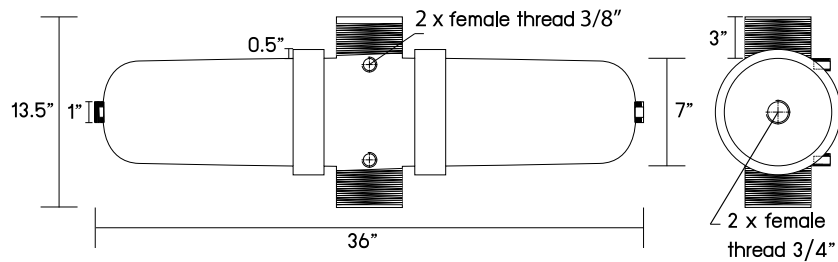
Code Number	Size (inch)	Filter (type)	Pack Size (bag)
454-1TN	2"	screen	1
454-2TN	2"	disc	1
454-11TN	3"	screen	1
454-12TN	3"	disc	1





### Strainer Male Thread with Valve

Code Number	Size (inch)	Filter (type)	Water Volume (M <sup>3</sup> /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"

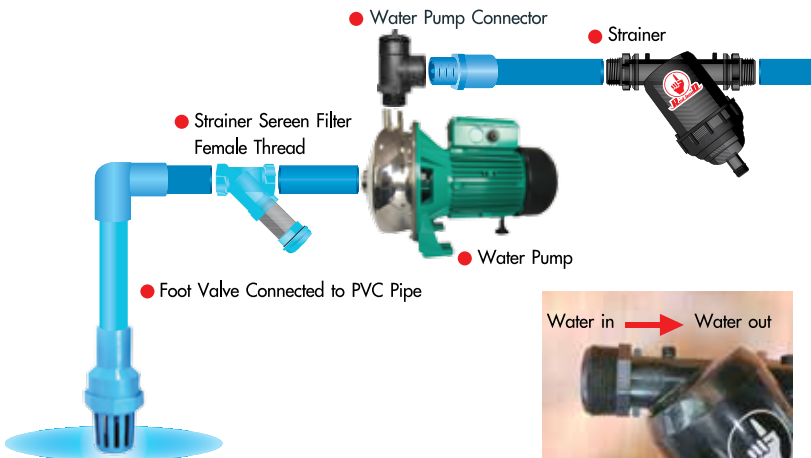
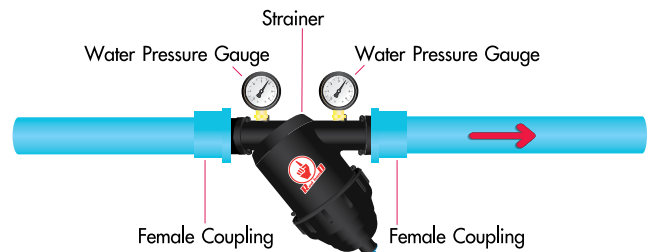


Code Number	Size (inch)	Pack Size (box)
660	1/4"	1



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)

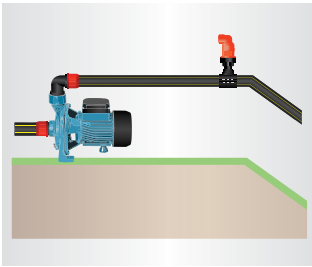
Code Number	Size (inch)	Pack Size (box)
241-25	1"	100
241-50	2"	100



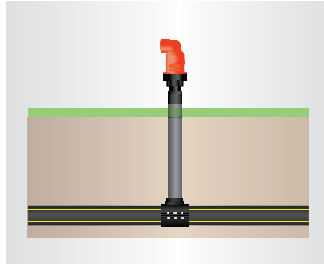
# Air Valve

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



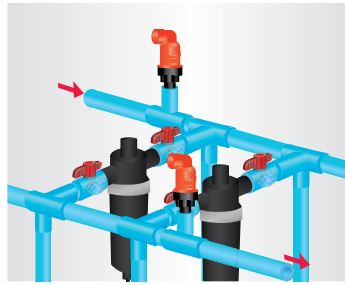
Installed from an underground pipe



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 <sup>3</sup> /h)	Air Outtake Flow (m <sup>3</sup> /h)	contain (bag)
2-AIRV-2	3/4"	150	5	0-50m <sup>3</sup> /h @0-5psi	67-0m <sup>3</sup> /h @5-0psi	1
2-AIRV-3	1"	150	5	0-280m <sup>3</sup> /h @0-5psi	280-0m <sup>3</sup> /h @5-0psi	1
2-AIRV-4	1 1/2"	225	5	0-330m <sup>3</sup> /h @0-5psi	330-0m <sup>3</sup> /h @5-0psi	1
2-AIRV-5	2"	225	5	0-235m <sup>3</sup> /h @0-5psi	235-0m <sup>3</sup> /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.

