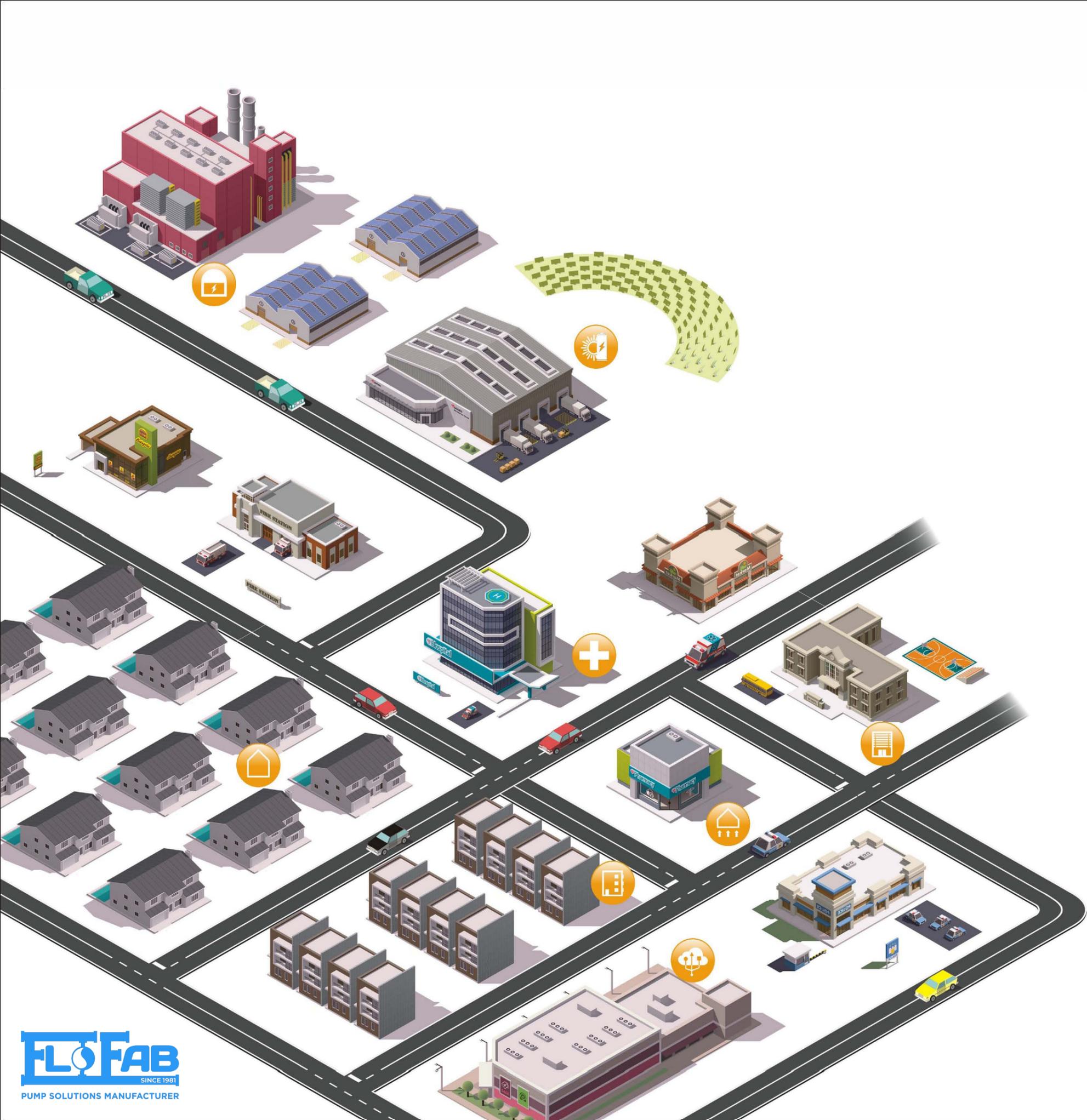


PUMP SOLUTIONS MANUFACTURER





A solution for every application

Whether you are improving an existing system, or planning to open a new heating supply, Cooling or process system, FloFab Inc company will meet your every needs provide the right solution. Our products can meet almost all your needs

- 
 Geothermal energy
 - Solar cycle
 - Local / District heating
- 
 Biogas system
 - Local / District heating
 - Heating and cooling cycles
- 
 Solar power plant
 - Cooling system
 - Local / District heating
- 
 Detached house
 - Heating cycle
 - Heat pump
 - Solar system
- 
 Heating system
 - Heating cycle
 - Heat pump
 - Solar system
- 
 Office / School
 - Heating cycle
 - Cooling cycle
 - Air-conditioning water system
- 
 Data center
 - Cooling and refrigeration cycle
 - Air-conditioning water system
- 
 Rehabilitation Center / Hospital
 - Heating cycle
 - Cooling and refrigeration cycle
 - Air-conditioning water system



ACTION NOW. USE FLOFAB INC'S AIR ELIMINATOR AND DIRT SEPARATOR SERIES PRODUCTS TO REDUCE ENERGY CONSUMPTION!

Where does the gas in the system come from?

Water always contains air. The total amount of fused gas in water depends on the pressure and temperature of the heating system. When the boiler heats the water, the dissolved gas in the water is released as tiny bubbles, which may cause the heating performance of the system significantly reduced or the main equipment stop running. In addition, gas problem continuous occurrence will interfere with the operation of the system, forming troubles, such as the noise in piping and heat transfer device. The gas in the circulatory system reduce energy efficiency, increase energy consumption and unscheduled system maintenance & repair, may result in excessive wear and tear on expensive equipment components.



Why use a air eliminator?

Flofab Inc.'s air eliminator can quickly and efficiently remove gas and tiny bubbles from hot water. Routine maintenance such as manual venting can be eliminated, and avoid unnecessary downtime or degradation of system performance. The use of air eliminator also minimize reduce the system circulation resistance and circulating pump power loss. Combined with Flofab Inc. magnetic dirt separator, it can help the system reduce gas loss by up to 13%. The products can be quickly and easily installed on the system.

How do impurities in the system arise?

The main reason of poor water quality is corrosion. Gas in circulating water and iron components in the system reacted, and this creates black magnets and sludge that can build up in many places in the system. Blockage in pipelines can result in a significant decrease in the heat output of the heating system and excessive wear of the system components. Eventually, the entire system must be shut down for maintenance. System water quality can be identified by whether the color of water is black or not. If the water is black, take action.



Circulating water containing black magnet

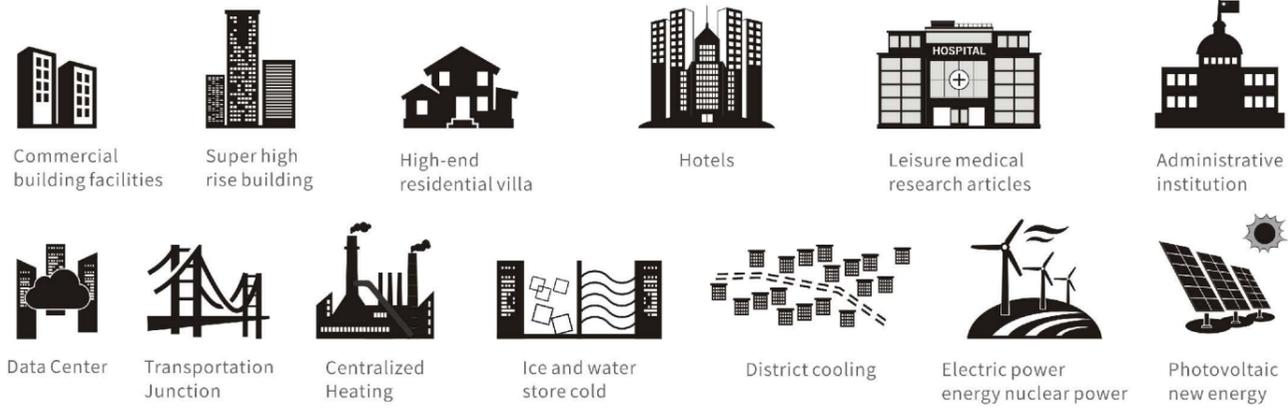
Why need to use a spiral dirt separator?

Flofab Inc. double spiral dirt separator can separate particles and sludge. The product avoids system maintenance which cost a lot of manpower, material and money, due to poor water quality, and no additional stop valves or bypass lines are required. Compared to traditional filtering, Flofab Inc. double spiral dirt separator is more efficient, has lower pressure loss than similar products, protect the expensive and sensitive system components, and greatly reduces gas consumption. Many well-known boiler companies recommend to use Flofab Inc. double spiral dirt separator.



Circulating water almost no black magnet

Application



Esempi di installazione



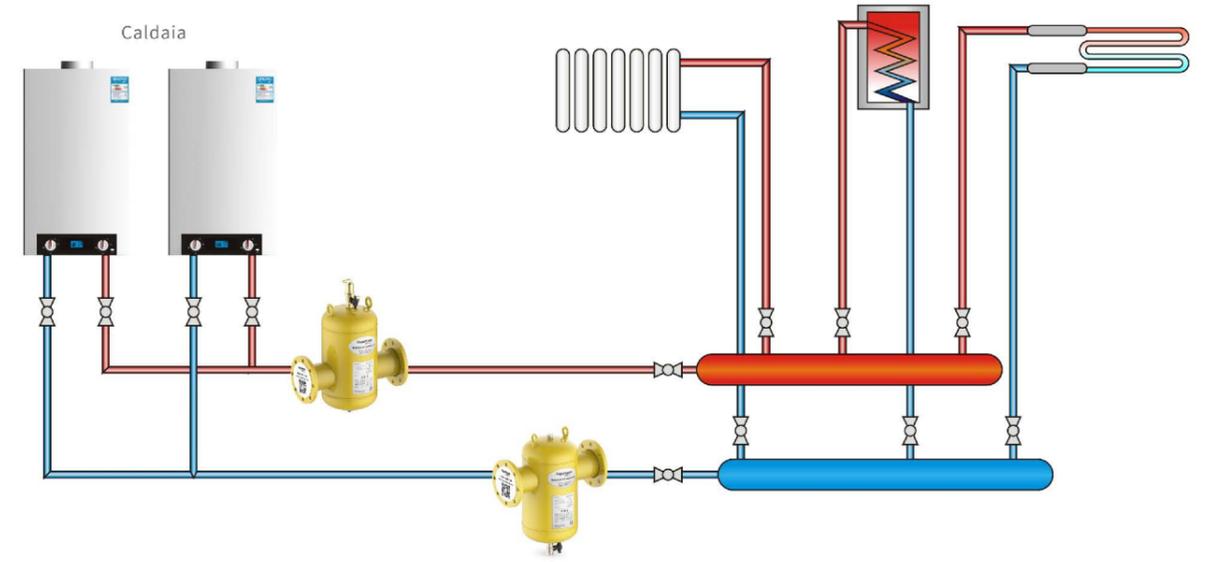
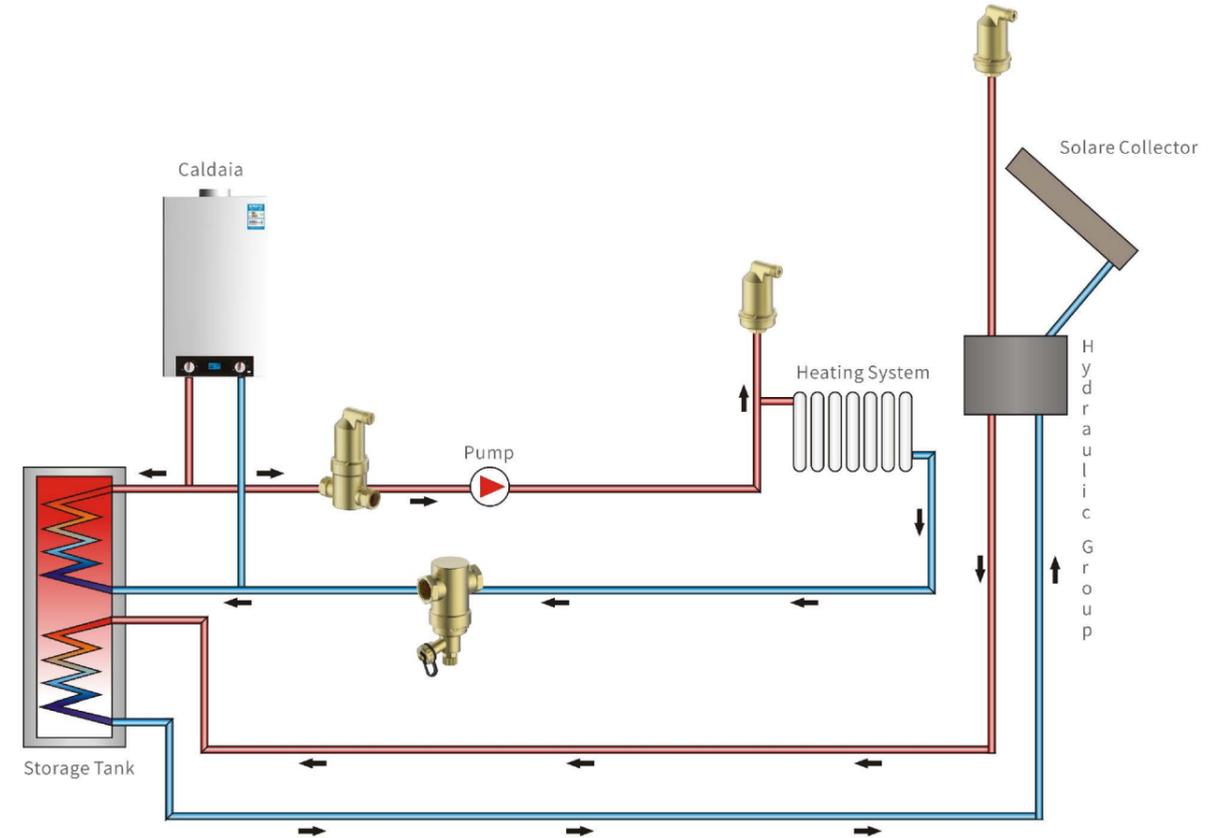
Full function heat exchange group



Plate heat exchanger



Packaged heat transfer station



V1 Automatic Air Vent Valve

SPVent Pro

V1 automatic air vent is compact and economical, suitable for water circulation systems such as heating and cooling. They will automatically discharge the wandering gas in the system, improve the efficiency of heating and cooling, reduce the oxidation and corrosion of the system, and reduce the noise.

Noted: FLO FAB INC is not suitable for gaseous or vapour media.

Features:

1. Compact, economical, and wide application;
2. Fully automatic exhaust when the system is running, no manual operation required;
3. When the system is draining, the air valve quickly intakes air to prevent damage of components caused by negative pressure.

Technical parameter:

Working pressure: Max. 10 bar
 Working Temperature: Max. 110°C
 Size: 3/8", 1/2"
 Connection: BSPT
 Applicable media: water, water/glycol(1:1)

Bom list:

Body: Brass Forging
 Float: PP
 Cover: PA66-GF30
 Sealer Ring: EPDM
 Spring: AISI304



Warning: Keep the screw cap at "open" status while the system is working, as above picture shows.



Warning: When the product is tightened, water inlet of the check valve opened; when the product is unscrewed, water inlet of the check valve closed.



High water level no exhaust
 Low water level automatic exhaust

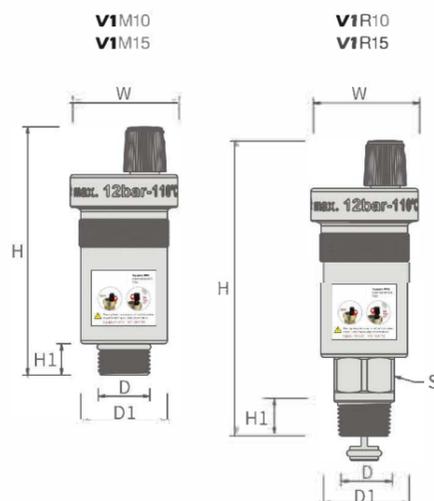
Item Description:

Vent	Series	Bspt	Caliber
V	1	M/R	XX

Package:

Inner box: 4x4x11cm/pc
 Outer box: 46x26x22cm/120pcs
 Pallet: 100x80x115cm/2880pcs

MODEL	CONNECTION CALIBER	int.	W	H	H1	D1	S	WEIGHT
	[D]		[inch]	[inch]	[inch]	[inch]	[inch]	[g]
V1M10	3/8"	M	1.33	3.14	0.39	1.06	-	95
V1M15	1/2"	M	1.33	3.74	0.59	1.06	-	100
V1R10	3/8"	M	1.33	3.14	0.39	1.06	0.74	120
V1R15	1/2"	M	1.33	3.74	0.59	1.06	0.86	145

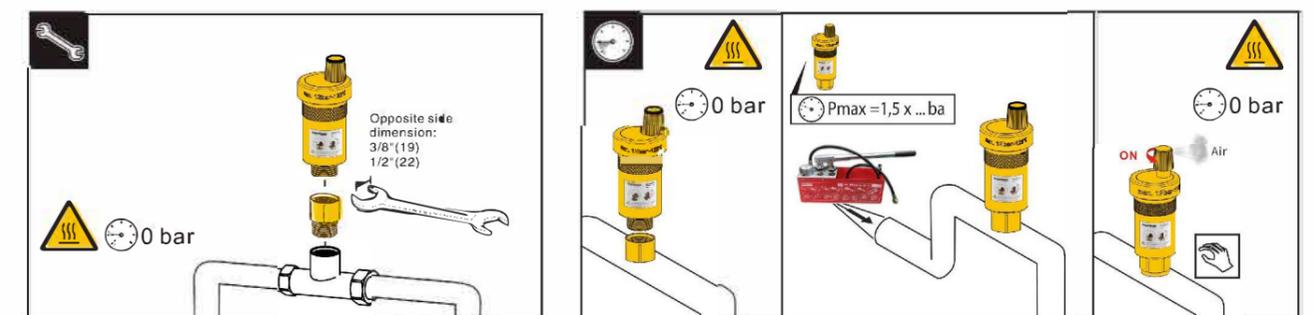
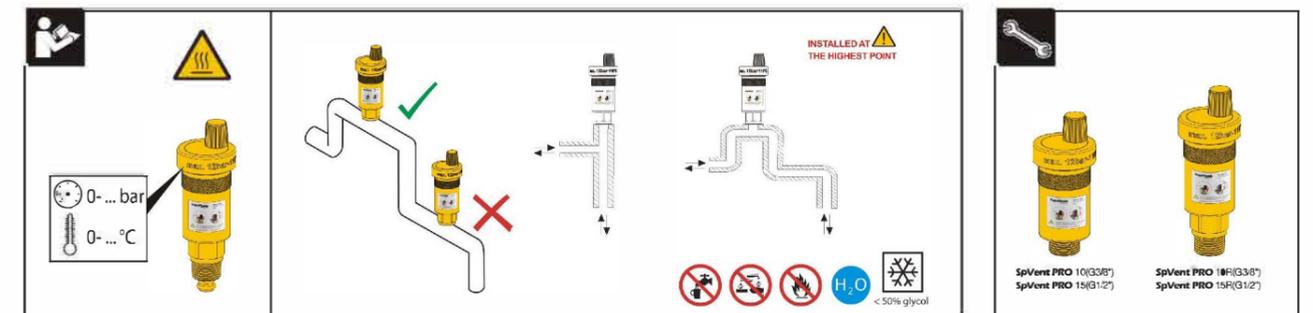


BOM:



No	Code	Name	Material	Quantity
1	3501904301	Exhaust valve nut	CW614N	1
2	3500206641	Exhaust valve nut	PE	1
3	3504800619	Exhaust valve cover	PA66-GF30	1
4	EPDM2802	O-ring	EPDM	1
5	3504800718	Float	PP	1
6	3500172101	Main body	CW614N	1
7	EPDM1718	O-ring	EPDM	1
8	3501413901	Check valve	CW617N	1

Installation size:



V4 Automatic Air Vent-Quick Exhaust SPVent TOP

V4 series anti-leakage quick automatic air vent is applied to the high place and end place of the heating/cooling/air conditioning system and other water systems, internal anti-shake design can avoid frequent exhaust. $\geq 40\text{mm}$ big chamber design can prevent the pollution of top exhaust valve (The exhaust valve pollution is one of the main causes of leakage).

So it can prevent liquid leakage and quickly automatically exhaust. It is suitable for manufacturing systems with a maximum pressure of 25bar and a maximum temperature of 200°C.

Noted: FloFab Inc. is not suitable for gaseous or vapour media.

Feature:

1. Using the principle of lever will not leak water and prevent injuries from hot water;
2. Quick automatic air vent, no manual exhaust requested;
3. It is suitable for different scenarios, and it can work stably even when the medium is very dirty;
4. Average service life of 20 years, 5 years warranty;
5. Brass forging, strong and durable.

Technical parameter:

Working pressure: Max. 10bar
 Operating temperature: Max. 110°C
 Size range: 1/2", 3/4", 1"
 Connection: BSPT
 Applicable media: Water, Water/Ethylene glycol (1:1)

Bom list:

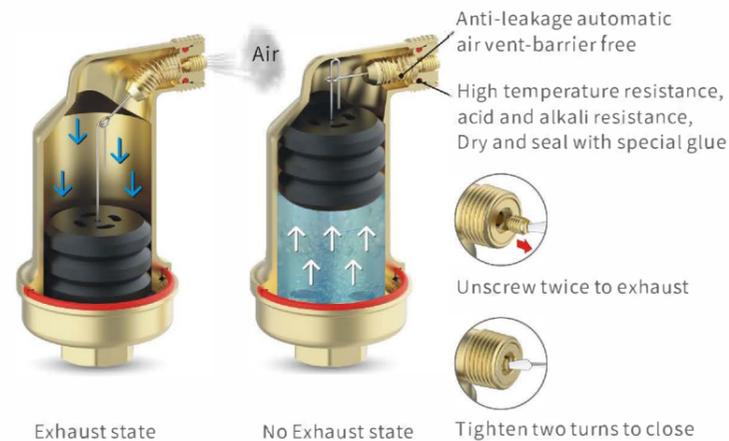
Body: Brass forging
 Float: PP
 Sealing ring: EPDM
 Spring: AISI304

Package:

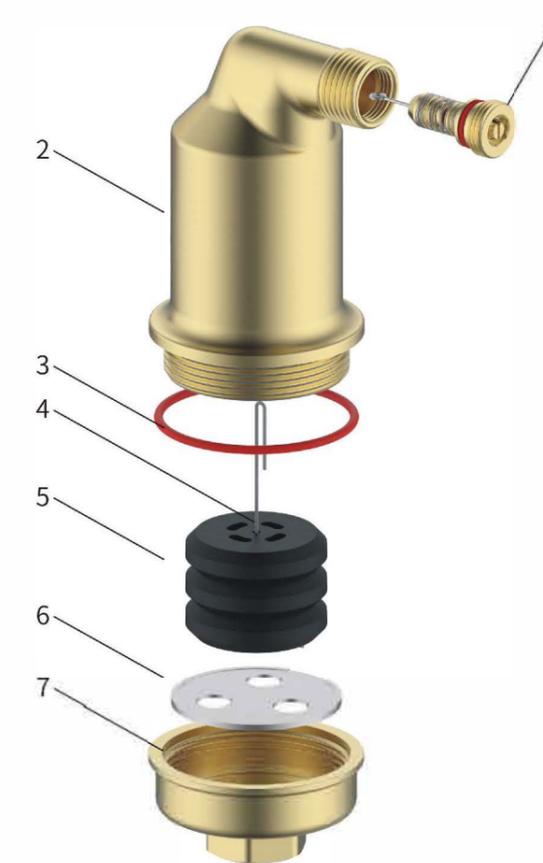
Inner box: 13x9x7cm/pc
 Outer box: 432.5x28x31.5cm/24pcs

Item Description:

Vent	Series	Bspt	Caliber
V	4	F	XX



BOM:

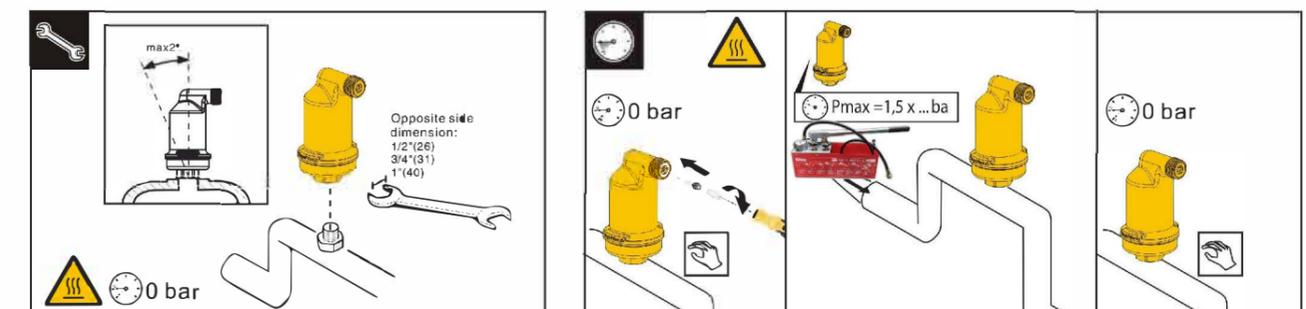
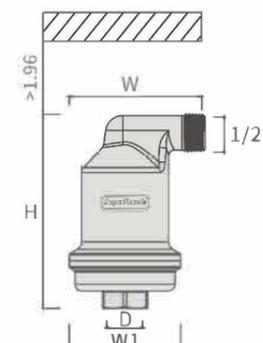


No	Code	Name	Material	Quantity
1	3506100401	Air exhaust valve	CW614N	1
2	3500166701	Main body	CW614N	1
3	3625210019	O-ring	FKM	1
4	3508900301	Hook	AISI304	1
5	3504800519	Float	PA66	3
6	3505701501	Plate	AISI304	1
7	3500205801	Part body	CnZn42Pb3	1

Installation size:



MODEL	CONNECTION CALIBER	int.	W	W1	H	Pressure	Temperature	Weight	Unit Price
	[D]	[inch]	[inch]	[inch]	[inch]	[bar]	[°C]	[g]	[¥]
V4F15	1/2"	F	2.91	2.36	4.72	10	110		
V4F20	3/4"	F	2.91	2.36	4.72	10	110		
V4F25	1"	F	2.91	2.36	4.72	10	110		
V4F15P16T110	1/2"	F	2.91	2.36	4.72	16	110		
V4F15P10T180	1/2"	F	2.91	2.36	4.72	10	180		



V5 Micro Bubble Air Separator With Swivel Connection For Boiler

SPVent Best

V5 series of spiral micro-bubble air separator enables heating, cooling, air-conditioning systems to efficiently and energy-saving operate. Especially suitable for wall-hung boiler right-angle installation. It is composed of a spiral micro-bubble separator and an anti-leakage fast automatic air vent.

The water flows into the valve body to form a turbulent flow around the spiral net, sucking the micro-bubbles into the net; And when it becomes larger, it breaks away from the spiral net. It rises and gathers to the top exhaust chamber, and is discharged by the exhaust rod moving down. Prevents system component life from being shortened or even completely damaged, and reduces loss of heated area.

1. According to Henry's law, the higher the temperature, the easier it is for the gas in water to decompose. In principle, the spiral microbubble separation exhaust valve should be installed at the hottest part of the system.
2. Spiral microbubble separation exhaust valve is not suitable for steam medium.

Feature:

1. There are two water inlet methods, vertical and horizontal, and can be rotated to connect, which greatly facilitates installation and maintenance.
2. After running the system several times, the removal rate of micro-bubble $\geq 10\mu\text{m}$ can reach more than 95%.
3. The specially designed spiral mesh has outstanding effect of separating micro-bubbles, and the pressure loss is extremely low (almost negligible).
4. When the system is in normal operation, it can be quickly and automatically exhausted without manual exhausting.
5. The diameter of the exhaust chamber is 45mm and the height is $\geq 40\text{mm}$, which can prevent the pollution of the gasket and prevent water leakage at the exhaust port.
6. It can prevent system oxidation and corrosion, and continuously ensure the perfect function of system components, avoidance of the risk of system failure.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: 3/4", 1", $\phi 22$, $\phi 28$
 Connection: BSPT
 Applicable media: Water, Water/Ethylene glycol(1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Seal ring: EPDM
 Spring: AISI304

Item Description:

Vent	Series	Ball valve	Bspt	Caliber
V	5	BV	M/C	XX

MODEL	CONNECTION CALIBER	W	W1	H	H1	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[inch]	[g]	[¥]
V5M20	3/4"	5.35	4.17	6.41	1.53		
V5M25	1"	5.35	4.17	6.41	1.45		
V5C22	$\phi 22$	5.35	4.17	6.41	1.81		
V5C28	$\phi 28$	5.35	4.17	6.41	1.81		
V5BVM20	3/4"X3/4"	5.35	4.17	6.41	2.24		
V5BVM25	1"X1"	5.35	4.17	6.41	2.24		



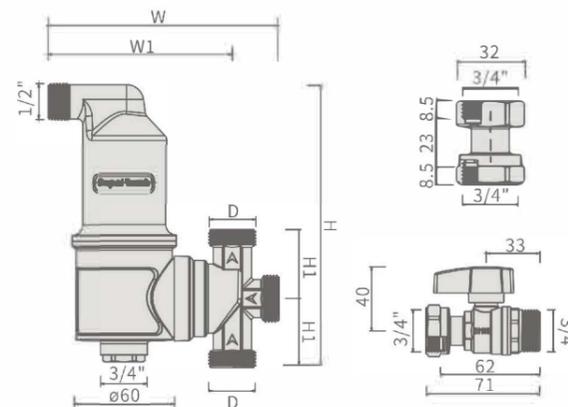
Vertical installation



Right angle 90° installation



T2 Copper spiral mesh



Product principle:



Unscrew twice to exhaust



Tighten two turns to close



Exhaust state

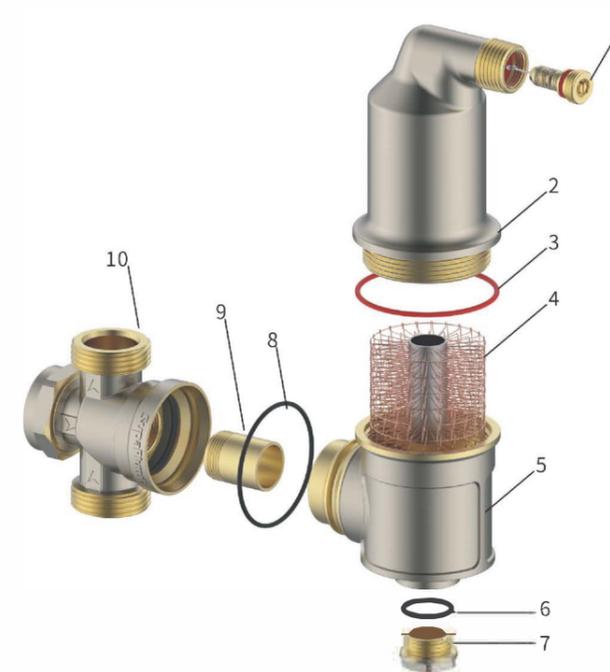


No Exhaust state



Copper spiral mesh
 Micron filtration to separate free air, microbubbles and other non-Magnetic impurities

BOM:



No	Code	Name	Material	Quantity
1	3506100401	Air exhaust valve	CW614N	1
2	5507900699	Main body	CW614N	1
3	3625210019	O-ring	FKM	1
4	3502008601	T2 copper spiral mesh	T2	1
5	3500181101	Main body	CnZn42Pb3	1
6	EPDM2222	O-ring	EPDM	1
7	3500902801	Plug	CnZn42Pb3	1
8	EPDM7025	O-ring	EPDM	1
9	3501311101	Joint pipe	CnZn42Pb3	1
10	3503303611	Rotate body	CnZn42Pb3	1

V6 Micro Bubble Air Separator

SPVent Best

V6 Series microbubble exhaust valve are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a leak-proof quick automatic exhaust valve, T2 copper spiral mesh components, and a brass valve body with inlet and outlet. The flow rate of the medium flowing into the valve cavity is slowed down, and the microbubbles $\geq 10 \mu\text{m}$ in the medium form a vortex around the T2 copper spiral net, which is conducive to the separation of the microbubbles.

The microbubbles climb along the spiral separation net and gather to the gas storage compartment. Quickly and automatically discharge the gas, thereby reducing the noise of the medium flow in the pipeline, cavitation and gas blockage, and effectively controlling the oxidation and corrosion of the system. The product prevents the life shorten of the system components or even completely damaged, and reduces the loss of the heating area to prevent the reduction of heat transfer (cold) efficiency.

- 
1. According to Henry's law, the higher the temperature, the easier it is for the gas in water to decompose. In principle, the spiral microbubble separation exhaust valve should be installed at the hottest part of the system.
 2. Spiral microbubble separation exhaust valve is not suitable for steam medium.

Features:

1. After running the system several times, the removal rate of micro-bubble $\geq 10 \mu\text{m}$ can reach more than 95%.
2. The specially designed spiral mesh has outstanding effect of separating micro-bubbles, and the pressure loss is extremely low (almost negligible).
3. When the system is in normal operation, it can be exhausted quickly and automatically, no manual exhausting.
4. The diameter of the exhaust chamber is 45mm and the height is $\geq 40\text{mm}$, which can prevent the pollution of the gasket and water leakage at the exhaust port.
5. It can prevent system oxidation and corrosion, and continuously ensure the perfect function of system components, avoid the risk of system failure.

Technical parameter:

Working pressure: Max. 10bar
 Operating temperature: Max. 110°C
 Size range: 3/4", 1", 1-1/4", 1-1/2", 2"
 Connection: BSPT
 Applicable media: Water, Water/Ethylene glycol(1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Sealing ring: EPDM
 Spring: AISI304

Item Description:

Vent	Series	Npt	Caliber
V	6	NPT	XX

MODEL	CONNECTION CALIBER	W	W1	H	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[g]	[¥]
V6NPT20	3/4"	3.34	3.26	6.41		
V6NPT25	1"	3.42	3.38	7.08		
V6NPT32	1-1/4"	3.77	4.05	7.40		
V6NPT40	1-1/2"	3.74	4.05	8.07		
V6NPT50	2"	4.13	4.80	10.35		



Product principle:



Unscrew twice to exhaust



Tighten two turns to close



Exhaust state

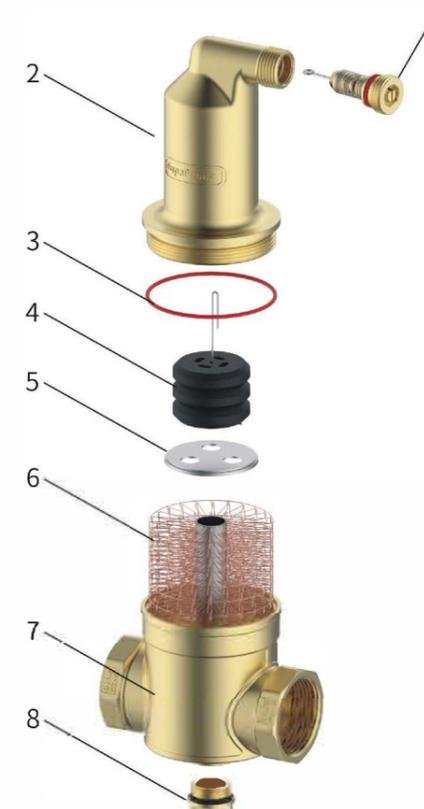


No Exhaust state

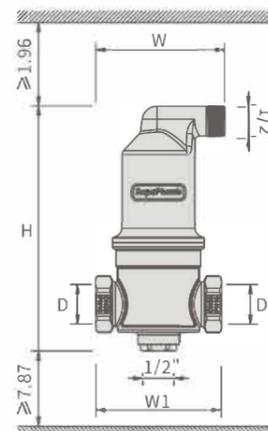


Copper spiral mesh
 Micron filtration to separate free Air, microbubbles and other non-Magnetic impurities

BOM:



No	Code	Name	Material	Quantity
1	3506100401	Exhaust valve	CW614N	1
2	3500166701	Main body	CW614N	1
3	3625210019	O-ring	FKM	1
4	3504800519	Float	PA66	3
5	3505701501	Plate	AISI304	1
6	3502008001	T2 copper spiral mesh	T2	1
7	3500205801	Part body	CnZn42Pb3	1
8	3500902801	Plug	CnZn42Pb3	1



V6 Micro Bubble Air Separator

SPVent Best

V6 Series microbubble exhaust valve are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a leak-proof quick automatic exhaust valve, T2 copper spiral mesh components, and a brass valve body with inlet and outlet. The flow rate of the medium flowing into the valve cavity is slowed down, and the microbubbles $\geq 10 \mu\text{m}$ in the medium form a vortex around the T2 copper spiral net, which is conducive to the separation of the microbubbles.

The microbubbles climb along the spiral separation net and gather to the gas storage compartment. Quickly and automatically discharge the gas, thereby reducing the noise of the medium flow in the pipeline, cavitation and gas blockage, and effectively controlling the oxidation and corrosion of the system. The product prevents the life shorten of the system components or even completely damaged, and reduces the loss of the heating area to prevent the reduction of heat transfer (cold) efficiency.



1. According to Henry's law, the higher the temperature, the easier it is for the gas in water to decompose. In principle, the spiral microbubble separation exhaust valve should be installed at the hottest part of the system.
2. Spiral microbubble separation exhaust valve is not suitable for steam medium.

Features:

1. After running the system several times, the removal rate of micro-bubble $\geq 10 \mu\text{m}$ can reach more than 95%.
2. The specially designed spiral mesh has outstanding effect of separating micro-bubbles, and the pressure loss is extremely low (almost negligible).
3. When the system is in normal operation, it can be exhausted quickly and automatically, no manual exhausting.
4. The diameter of the exhaust chamber is 45mm and the height is $\geq 40\text{mm}$, which can prevent the pollution of the gasket and water leakage at the exhaust port.
5. It can prevent system oxidation and corrosion, and continuously ensure the perfect function of system components, avoid the risk of system failure.

Technical parameter:

Working pressure: Max. 10bar
 Operating temperature: Max. 110°C
 Size range: $\varnothing 22$ 、 $\varnothing 29$ 、 $\varnothing 35$ 、 $\varnothing 41$ 、 $\varnothing 54$
 Connection: SWT
 Applicable media: Water, Water/Ethylene glycol(1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Seal ring: EPDM
 Spring: AISI304

Item Description:

Vent	Series	Swt	Caliber
V	6	S	XX

MODEL	CONNECTION CALIBER	W	W1	H	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[g]	[¥]
V6S20	$\varnothing 22$	3.50	3.54	6.41		
V6S25	$\varnothing 29$	3.66	3.85	7.08		
V6S32	$\varnothing 35$	3.97	4.52	7.40		
V6S40	$\varnothing 41$	4.13	4.80	8.07		
V6S50	$\varnothing 54$	4.72	5.98	10.35		



V6 Micro Bubble Air Separator

SPVent Best

V6 Series microbubble exhaust valve are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a leak-proof quick automatic exhaust valve, T2 copper spiral mesh components, and a brass valve body with inlet and outlet. The flow rate of the medium flowing into the valve cavity is slowed down, and the microbubbles $\geq 10 \mu\text{m}$ in the medium form a vortex around the T2 copper spiral net, which is conducive to the separation of the microbubbles.

The microbubbles climb along the spiral separation net and gather to the gas storage compartment. Quickly and automatically discharge the gas, thereby reducing the noise of the medium flow in the pipeline, cavitation and gas blockage, and effectively controlling the oxidation and corrosion of the system. The product prevents the life shorten of the system components or even completely damaged, and reduces the loss of the heating area to prevent the reduction of heat transfer (cold) efficiency.



1. According to Henry's law, the higher the temperature, the easier it is for the gas in water to decompose. In principle, the spiral microbubble separation exhaust valve should be installed at the hottest part of the system.
2. Spiral microbubble separation exhaust valve is not suitable for steam medium.

Features:

1. After running the system several times, the removal rate of micro-bubble $\geq 10 \mu\text{m}$ can reach more than 95%.
2. The specially designed spiral mesh has outstanding effect of separating micro-bubbles, and the pressure loss is extremely low (almost negligible).
3. When the system is in normal operation, it can be exhausted quickly and automatically, no manual exhausting.
4. The diameter of the exhaust chamber is 45mm and the height is $\geq 40\text{mm}$, which can prevent the pollution of the gasket and water leakage at the exhaust port.
5. It can prevent system oxidation and corrosion, and continuously ensure the perfect function of system components, avoid the risk of system failure.

Technical parameter:

Working pressure: Max. 10bar
 Operating temperature: Max. 110°C
 Size range: 3/4"、1"、1-1/4"、1-1/2"、2"
 Connection: PRESS FIT
 Applicable media: Water, Water/Ethylene glycol(1:1)

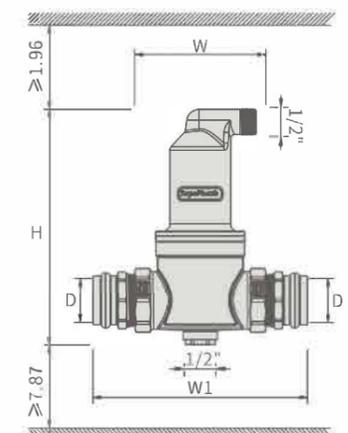
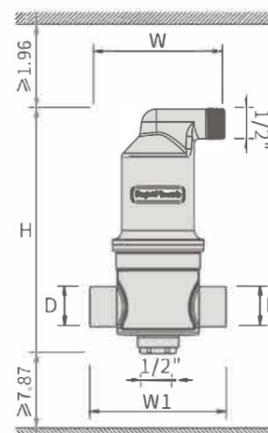
Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Seal ring: EPDM
 Spring: AISI304

Item Description:

Vent	Series	Press fit	Caliber
V	6	P	XX

MODEL	CONNECTION CALIBER	W	W1	H	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[g]	[¥]
V6P20	3/4"	3.27	6.02	6.41		
V6P25	1"	3.39	6.22	7.08		
V6P32	1-1/4"	4.09	6.69	7.40		
V6P40	1-1/2"	4.06	6.89	8.07		
V6P50	2"	4.80	8.27	10.35		



V7 Micro Bubble Air Separator With Swivel Connection SPVent Best

V7 Series microbubble exhaust valve are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a leak-proof quick automatic exhaust valve, T2 copper spiral mesh components, and a brass valve body with inlet and outlet. The flow rate of the medium flowing into the valve cavity is slowed down, and the microbubbles $\geq 10 \mu\text{m}$ in the medium form a vortex around the T2 copper spiral net, which is conducive to the separation of the microbubbles.

The microbubbles climb along the spiral separation net and gather to the gas storage compartment. Quickly and automatically discharge the gas, thereby reducing the noise of the medium flow in the pipeline, cavitation and gas blockage, and effectively controlling the oxidation and corrosion of the system. The product prevents the life shorten of the system components or even completely damaged, and reduces the loss of the heating area to prevent the reduction of heat transfer (cold) efficiency.



1. According to Henry's law, the higher the temperature, the easier it is for the gas in water to decompose. In principle, the spiral microbubble separation exhaust valve should be installed at the hottest part of the system.
2. Spiral microbubble separation exhaust valve is not suitable for steam medium.

Features:

1. There are two water inlet methods, vertical and horizontal, and can be rotated to connect, which greatly facilitates installation and maintenance.
2. After running the system several times, the removal rate of micro-bubble $\geq 10 \mu\text{m}$ can reach more than 95%.
3. The specially designed spiral mesh has outstanding effect of separating micro-bubbles, and the pressure loss is extremely low (almost negligible).
4. When the system is in normal operation, it can be exhausted quickly and automatically, no manual exhausting.
5. The diameter of the exhaust chamber is 45mm and the height is $\geq 40\text{mm}$, which can prevent the pollution of the gasket and water leakage at the exhaust port.
6. It can prevent system oxidation and corrosion, and continuously ensure the perfect function of system components, avoid the risk of system failure.

Technical parameter:

Working pressure: Max. 10bar
 Operating temperature: Max. 110°C
 Size range: 3/4", 1", 1-1/4", 1-1/2"
 Connection: NPT
 Applicable media: Water, Water/Ethylene glycol (1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Seal ring: EPDM
 Spring: AISI304

Item Description:

Vent	Series	Npt	Caliber
V	6	NPT	XX

MODEL	CONNECTION CALIBER	W	W1	H	H1	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[inch]	[g]	[¥]
V7NPT20	3/4"	4.97	4.22	6.65	3.27		
V7NPT25	1"	5.70	4.84	7.87	3.81		
V7NPT32	1-1/4"	6.37	5.39	8.62	4.52		
V7NPT40	1-1/2"	6.57	5.64	9.72	4.92		



Product principle:



Unscrew twice to exhaust



Tighten two turns to close



Exhaust state

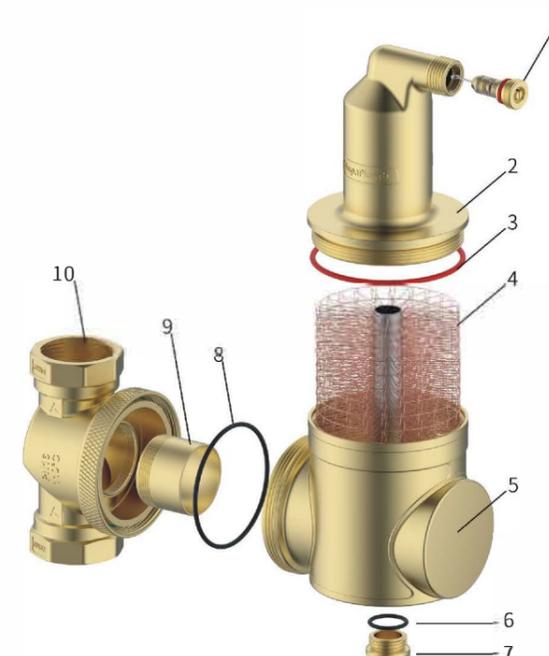


No Exhaust state

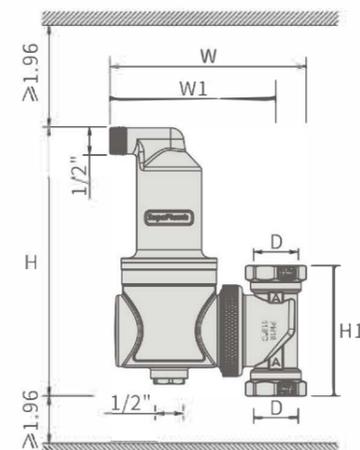


Copper spiral mesh
 Micron filtration to separate free air, microbubbles and other non-Magnetic impurities

BOM:



No	Code	Name	Material	Quantity
1	3506100401	Air exhaust valve	CW614N	1
2	5507900699	Main body	CW614N	1
3	3625210019	O-ring	FKM	1
4	3502008601	T2 copper spiral mesh	T2	1
5	3500181101	part body	CnZn42Pb3	1
6	EPDM2222	O-ring	EPDM	1
7	3500902801	Plug	CnZn42Pb3	1
8	EPDM7025	O-ring	EPDM	1
9	3501311101	Joint pipe	CnZn42Pb3	1
10	3503303611	Rotate body	CnZn42Pb3	1



V7 Micro Bubble Air Separator With Swivel Connection SPVent Best

V7 Series microbubble exhaust valve are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a leak-proof quick automatic exhaust valve, T2 copper spiral mesh components, and a brass valve body with inlet and outlet. The flow rate of the medium flowing into the valve cavity is slowed down, and the microbubbles $\geq 10 \mu\text{m}$ in the medium form a vortex around the T2 copper spiral net, which is conducive to the separation of the microbubbles.

The microbubbles climb along the spiral separation net and gather to the gas storage compartment. Quickly and automatically discharge the gas, thereby reducing the noise of the medium flow in the pipeline, cavitation and gas blockage, and effectively controlling the oxidation and corrosion of the system. The product prevents the life shorten of the system components or even completely damaged, and reduces the loss of the heating area to prevent the reduction of heat transfer (cold) efficiency.



1. According to Henry's law, the higher the temperature, the easier it is for the gas in water to decompose. In principle, the spiral microbubble separation exhaust valve should be installed at the hottest part of the system.
2. Spiral microbubble separation exhaust valve is not suitable for steam medium.

Features:

1. There are two water inlet methods, vertical and horizontal, and can be rotated to connect, which greatly facilitates installation and maintenance.
2. After running the system several times, the removal rate of micro-bubble $\geq 10 \mu\text{m}$ can reach more than 95%.
3. The specially designed spiral mesh has outstanding effect of separating micro-bubbles, and the pressure loss is extremely low (almost negligible).
4. When the system is in normal operation, it can be exhausted quickly and automatically, no manual exhausting.
5. The diameter of the exhaust chamber is 45mm and the height is $\geq 40\text{mm}$, which can prevent the pollution of the gasket and water leakage at the exhaust port.
6. It can prevent system oxidation and corrosion, and continuously ensure the perfect function of system components, avoid the risk of system failure.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: $\varnothing 22''$ 、 $\varnothing 29''$ 、 $\varnothing 35''$ 、 $\varnothing 41''$
 Connection: SWT
 Applicable media: Water, Water/Ethylene glycol(1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Seal ring: EPDM
 Spring: AISI304

Item Description:

Vent	Series	Swt	Caliber
V	6	S	XX

MODEL	CONNECTION CALIBER	W	W1	H	H1	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[inch]	[g]	[¥]
V7S20	$\varnothing 22$	4.75	4.22	6.77	3.50		
V7S25	$\varnothing 29$	5.47	4.84	7.87	3.81		
V7S32	$\varnothing 35$	6.18	5.39	8.62	4.52		
V7S40	$\varnothing 41$	6.59	5.64	9.80	5.04		



V7 Micro Bubble Air Separator With Swivel Connection SPVent Best

V7 Series microbubble exhaust valve are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a leak-proof quick automatic exhaust valve, T2 copper spiral mesh components, and a brass valve body with inlet and outlet. The flow rate of the medium flowing into the valve cavity is slowed down, and the microbubbles $\geq 10 \mu\text{m}$ in the medium form a vortex around the T2 copper spiral net, which is conducive to the separation of the microbubbles.

The microbubbles climb along the spiral separation net and gather to the gas storage compartment. Quickly and automatically discharge the gas, thereby reducing the noise of the medium flow in the pipeline, cavitation and gas blockage, and effectively controlling the oxidation and corrosion of the system. The product prevents the life shorten of the system components or even completely damaged, and reduces the loss of the heating area to prevent the reduction of heat transfer (cold) efficiency.



1. According to Henry's law, the higher the temperature, the easier it is for the gas in water to decompose. In principle, the spiral microbubble separation exhaust valve should be installed at the hottest part of the system.
2. Spiral microbubble separation exhaust valve is not suitable for steam medium.

Features:

1. There are two water inlet methods, vertical and horizontal, and can be rotated to connect, which greatly facilitates installation and maintenance.
2. After running the system several times, the removal rate of micro-bubble $\geq 10 \mu\text{m}$ can reach more than 95%.
3. The specially designed spiral mesh has outstanding effect of separating micro-bubbles, and the pressure loss is extremely low (almost negligible).
4. When the system is in normal operation, it can be exhausted quickly and automatically, no manual exhausting.
5. The diameter of the exhaust chamber is 45mm and the height is $\geq 40\text{mm}$, which can prevent the pollution of the gasket and water leakage at the exhaust port.
6. It can prevent system oxidation and corrosion, and continuously ensure the perfect function of system components, avoid the risk of system failure.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: 3/4"、1"、1-1/4"、1-1/2"
 Connection: PRESS FIT
 Applicable media: Water, Water/Ethylene glycol(1:1)

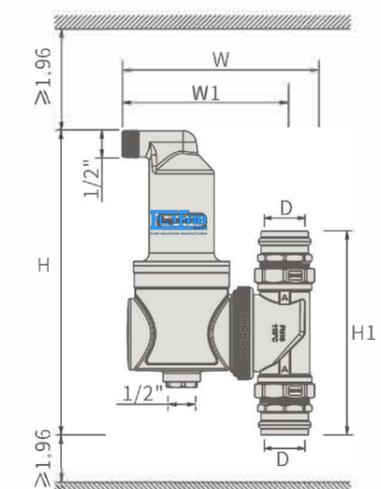
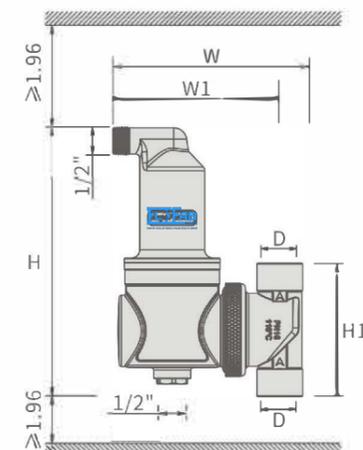
Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Seal ring: EPDM
 Spring: AISI304

Item Description:

Vent	Series	Press fit	Caliber
V	6	P	XX

MODEL	CONNECTION CALIBER	W	W1	H	H1	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[inch]	[g]	[¥]
V7P20	3/4"	4.97	4.22	8.02	6.02		
V7P25	1"	5.71	4.83	9.29	6.65		
V7P32	1-1/4"	6.38	5.37	9.94	7.13		
V7P40	1-1/2"	6.78	5.48	11.16	7.75		



V8 Microbubble deaerators

SPVent Best

V8 series Spiral micro-bubble separation exhaust valve (horizontal installation) is a general exhaust device for decomposing micro-bubbles $\geq 10 \mu\text{m}$ in the water circulation system. It is usually used in high-efficiency and energy-saving operation of boiler heating, central heating in winter, central cooling in summer, and water circulation air conditioning systems. It is composed of anti-leakage liquid fast automatic exhaust valve, spiral separation net and steel welded valve body. T2 copper spiral separation net makes the water flow form a vortex, which is easy to decompose $\geq 10 \mu\text{m}$ micro-bubbles.

The microbubbles gather on the separation net to become small bubbles, climb up the separation net, and gather together with the wandering gas in the system to the exhaust chamber. When the system is running, the gas will be discharged quickly and automatically, thereby reducing the flow of medium in the pipeline noise and prevent the occurrence of cavitation and gas blockage, effectively control the oxidation and corrosion of the system.

The product prevents the life of the system components from being shortened or even completely damaged, and reduces the loss of the heating area to prevent the reduction of heat transfer (cold) efficiency.



-  1. According to Henry's law, the higher the temperature, the easier it is for the gas in water to decompose. In principle, the spiral microbubble separation exhaust valve should be installed at the hottest part of the system.
2. Spiral microbubble separation exhaust valve is not suitable for steam medium.

Features:

- When the system is running, it continuously decomposes microbubbles ≥ 10 microns and automatically exhausts more than 95% of them;
- When the system is in normal operation, it can be quickly and automatically exhausted without manual exhausting;
- With expansion design, it can quickly reach hydraulic balance after replenishing water;
- Various materials, working pressure, working temperature and different flow rates and various connection methods (such as flanges, welding and clamps) can be provided according to system requirements

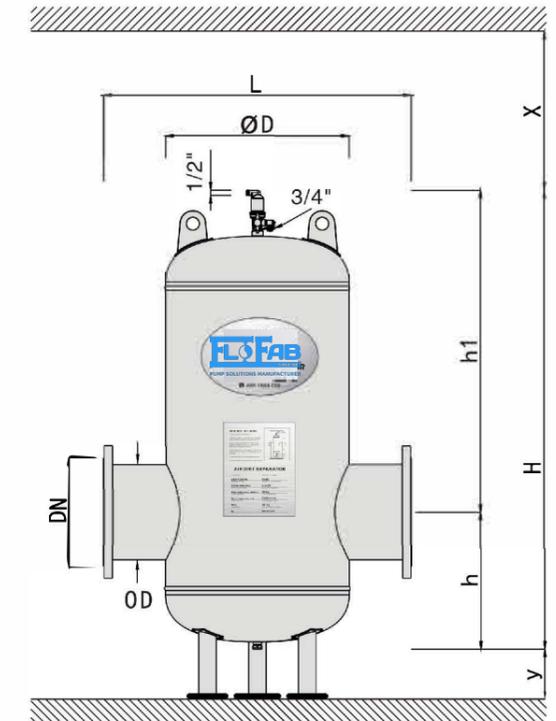
-  A coarse filter valve needs to be installed at the front end of the equipment to avoid damage to the spiral separation net

Bom list:

- Vent: brass exhaust valve
- Body: carbon steel welded tank
- Microbubble separation net: T2 copper spiral mesh



DN50-DN300



DN350-DN1000

Item Description: Vent Horizontal Flange Caliber Pressure Pressure Value
 V 8 EF XX P XX

Technical parameter: Applicable media: water, water/ethylene glycol(1:1) Average flow velocity: 1.5m/s
 Working pressure: 16bar Operating temperature: -20°C~110°C

MODEL	CONNECTION CALIBER	OD	H	L	ØD	h	h1	X	Y	Average Flow rate	Average Flow velocity	Pressure drop at average velocity	Volume	Weight
		[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[m ³ /h]	[L/S]	[kPa]	[L]	[kg]
V8EF50P16	DN50	2.37	18.50	13.77	6.25	4.72	13.77	>1.96	>20.07	12.50	3.47	3.0	5.0	14.0
V8EF65P16	DN65	2.99	18.50	13.77	6.25	5.11	13.38	>1.96	>20.07	20.00	5.56	2.7	5.0	15.0
V8EF80P16	DN80	3.50	22.83	18.50	8.62	5.90	16.92	>1.96	>25.98	27.00	7.50	2.9	17.0	25.0
V8EF100P16	DN100	4.50	22.83	18.70	8.62	6.29	16.53	>1.96	>25.98	47.00	13.06	3.7	17.0	27.0
V8EF125P16	DN125	5.50	29.52	25.00	12.75	7.67	21.85	>1.96	>36.22	72.00	20.00	4.2	50.0	54.0
V8EF150P16	DN150	6.62	29.52	25.00	12.75	8.26	21.25	>1.96	>36.22	108.00	30.00	4.9	50.0	57.0
V8EF200P16	DN200	8.62	39.37	30.51	15.98	11.41	27.95	>1.96	>47.24	180.00	50.00	5.8	105.0	106.0
V8EF250P16	DN250	10.74	49.21	35.03	20.00	15.15	34.05	>1.96	>62.99	288.00	80.00	6.9	210.0	171.0
V8EF300P16	DN300	12.75	57.67	39.56	24.01	17.71	39.96	>1.96	>74.80	405.00	112.50	7.7	350.0	251.0
V8EF350P16	DN350	—	67.71	47.24	27.95	19.68	—	>1.96	—	500.00	—	—	—	481.00
V8EF400P16	DN400	—	71.25	55.90	31.88	22.83	—	>1.96	—	650.00	—	—	—	607.00
V8EF450P16	DN450	—	79.92	59.84	35.82	24.80	—	>1.96	—	850.00	—	—	—	772.00
V8EF500P16	DN500	—	85.43	63.77	40.15	26.77	—	>1.96	—	1060.00	—	—	—	974.00
V8EF600P16	DN600	—	—	—	48.03	—	—	>1.96	—	—	—	—	—	—
V8EF700P16	DN700	—	—	—	55.90	—	—	>1.96	—	—	—	—	—	—
V8EF800P16	DN800	—	—	—	63.77	—	—	>1.96	—	—	—	—	—	—
V8EF900P16	DN900	—	—	—	71.65	—	—	>1.96	—	—	—	—	—	—
V8EF1000P16	DN1000	—	—	—	79.52	—	—	>1.96	—	—	—	—	—	—

Remarks: DN350~DN1000 need to be designed according to the customer's site, different pressure and temperature products (inspection hole is optional for large diameter products), and can be customized by consulting the factory.

T5 Dirt Separator With Magnet & Swivel Connection For Boiler SPTrap Best

T5 Series universal magnetic dirt separator is applied to the heating, cooling and air conditioning system to make it operate efficiently. It is composed of valve body, spiral net and drain valve. The speed of water flowing into the valve cavity slows down, the tiny impurities $\geq 5\mu\text{m}$ collide with the spiral net, and sink along the spiral net to the sewage storage bin due to the action of gravity, and the sewage is discharged when the system is running. Prevent impurities from accumulating on the metal surface, forming a local oxygen difference electrode and corroding the metal surface. If the metal surface is corroded, the life of the system components will be shortened or even completely damaged, and the heat area will be reduced and the heat conversion efficiency will be greatly reduced.

Feature:

1. There are two water inlet methods, vertical and horizontal, and can be rotated to connect, which greatly facilitates installation and maintenance.
2. When the flow rate $\geq 1\text{m/s}$, after 50 times of operation, the removal rate of $\geq 5\mu\text{m}$ impurities is $> 95\%$.
3. High-precision decontamination with extremely low pressure loss.
4. There is no need to close the valve or open the bypass line. When the system is running normally, it only takes five seconds to discharge the sewage.
5. Continuously ensure the functions in good condition of system components, avoid the risk of system failure.
6. High-strength magnets absorb tiny ferromagnetic impurities in the system, preventing them from flowing back into the system.

Technical parameter:

Working pressure: Max. 10bar
 Operating temperature: Max. 110°C
 Size range: 3/4", 1", $\phi 22$, $\phi 28$
 Connection: BSPT
 Applicable media: Water, Water/Ethylene glycol(1:1)
 Magnet: 8000GAUSS

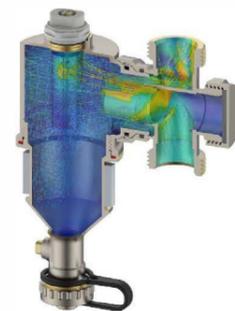
Bom list:

Main Body: brass forging
 Strainer: T2 Copper spiral mesh
 Sealing ring: EPDM
 Magnet holder ring: PA
 Magnets: Neodymium magnet

Item Description:

Trap Series Ball valve Bspt Caliber
 T 5 BV G XX

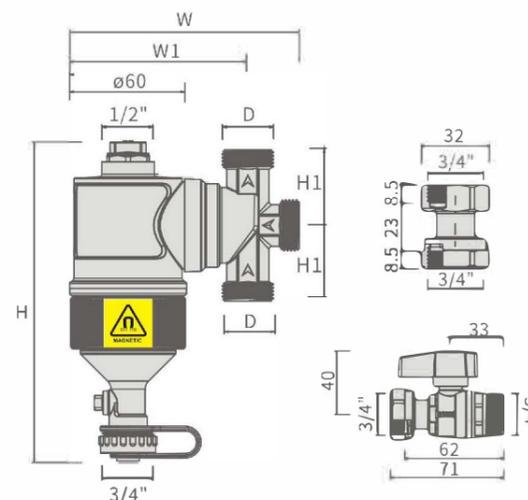
MODEL	CONNECTION CALIBER	W	W1	H	H1	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[inch]	[g]	[¥]
T5M20	3/4"	4.84	3.66	6.57	1.53		
T5M25	1"	4.84	3.66	6.57	1.45		
T5C22	$\phi 22$	4.84	3.66	6.57	1.81		
T5C28	$\phi 28$	4.84	3.66	6.57	1.81		
T5BVM20	3/4"X3/4"	4.84	3.66	6.57	2.24		
T5BVM25	1"X1"	4.84	3.66	6.57	2.24		



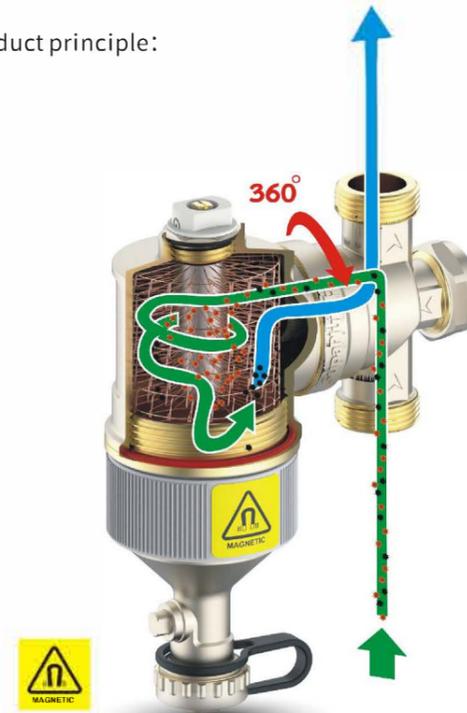
Vertical installation



Right angle 90° installation



Product principle:

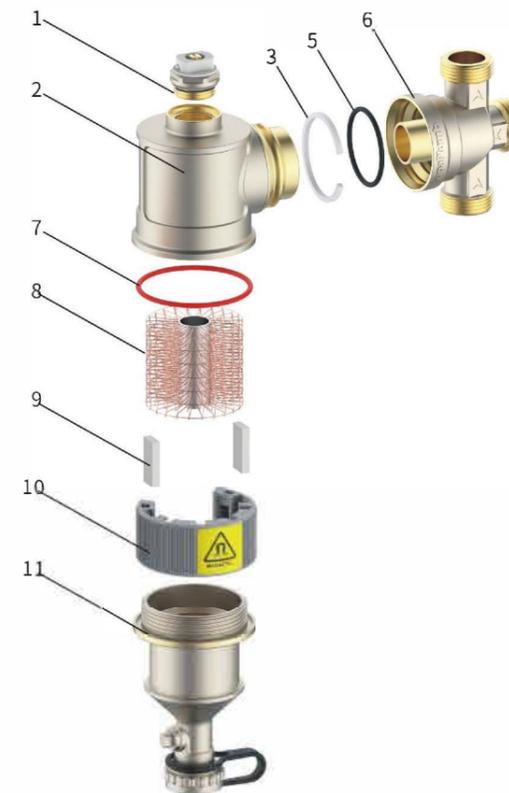


Magnet Design
 Magnetic impurities in water will be affected by strong magnetic field, attracted by the magnetic rod. So magnetic impurities will not enter the boiler inside and cause him to destroy



Copper spiral mesh
 Micron filtration to separate free air, microbubbles and other non-Magnetic impurities

BOM:



No	Code	Name	Material	Quantity
1	3504800301	Manual exhaust valve	CnZn42Pb3	1
2	3500166301	Main body	CnZn42Pb3	1
3	—	Circlip	—	1
5	3623062319	O-ring	NBR	1
6	3500177301	Rotate body	CnZn42Pb3	1
7	3625061519	O-ring	NBR	1
8	—	Staine	Red copper	1
9	—	magnet	Fe	1
10	3504900501	Magnet holder ring	Fe	2
11	3503301901	Part body	CnZn42Pb3	1

T6 Dirt Separator With Magnet SPTrap Best

T6 Series rotate magnetic dirt separator are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a manual exhaust valve on the top (mainly for water injection and exhaust), a T2 copper spiral separation net, a brass body a 360° rotating water inlet and outlet valve. The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal).

The oxygen content of the medium/impurity area is higher than that of the impurity/metal area. Under this condition, a local oxygen difference electrode will be formed, and under the action of the medium flow, the oxygen difference electrode will corrode the metal surface. Corrosion of the oxygen differential electrode, like air oxidation corrosion, will shorten the life of the system components or even completely damage them, and greatly reduce the heat transfer (cold) efficiency. After installing this product, when the medium flows into the valve cavity, the flow rate slows down, and the $\geq 5 \mu\text{m}$ fine debris mixed in the medium forms a vortex around the spiral separation net. When the system is in normal operation, it can quickly discharge sundries and reduce the loss of heating surface.

Features:

1. When the flow rate is $\leq 1\text{m/s}$, the removal rate of $\geq 5\mu\text{m}$ impurities can reach more than 95% after running the system 50 times;
2. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
3. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
4. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
5. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max. 10bar
 Operating temperature: Max. 110°C
 Size range: 3/4", 1", 1-1/4", 1-1/2", 2"
 Connection: NPT
 Applicable media: Water, Water/Ethylene glycol(1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet ring:
 9000gauss Neodymium magnet

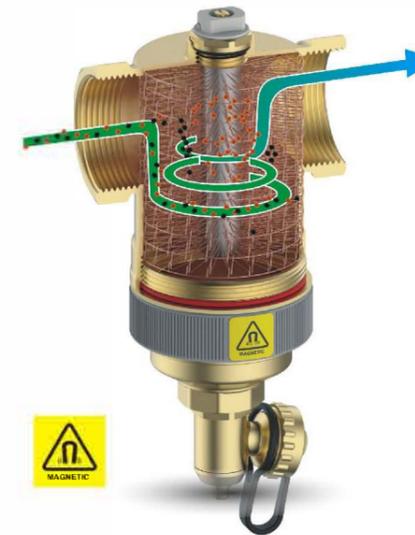
Item Description:

Trap	Series	Npt	Caliber
T	6	NPT	XX

MODEL	CONNECTION CALIBER	W	W1	H	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[g]	[¥]
T6NPT20	3/4"	3.26	2.36	6.25		
T6NPT25	1"	3.38	2.36	6.92		
T6NPT32	1-1/4"	4.09	2.79	6.96		
T6NPT40	1-1/2"	4.09	2.79	7.63		
T6NPT50	2"	4.80	3.42	10.11		



Product principle:

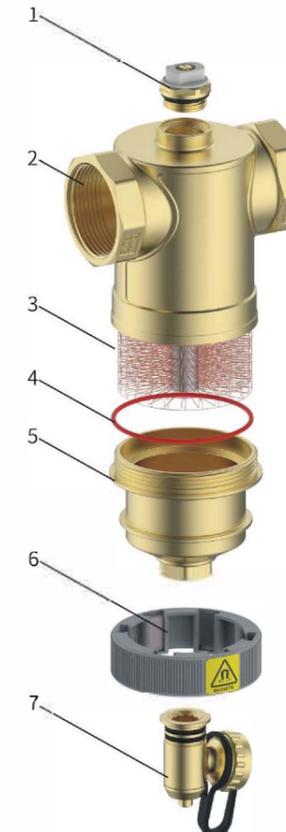


Magnet Design
 Magnetic impurities in water will be affected by Strong magnetic field, attracted by the magnetic rod. So magnetic impurities will not enter the boiler inside and cause him to destroy

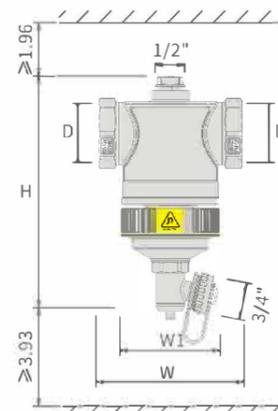


Copper spiral mesh
 Micron filtration to separate free Air, microbubbles and other non-Magnetic impurities

BOM:



No	Code	Name	Material	Quantity
1	3504800301	Manual air vent	CnZn42Pb3	1
2	3500180401	Filter valve body	CnZn42Pb3	1
3	3502008101	T2 spiral mesh	T2	1
4	EPDM6620	O ring	EPDM	1
5	3503304101	M66 part body	CnZn42Pb3	1
6	5506601299	Magnet ring	Neodymium	1
7	5506700401	Drain valve assembly	HPb57-3	1



T6 Dirt Separator With Magnet SPTrap Best

T6 Series rotate magnetic dirt separator are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a manual exhaust valve on the top (mainly for water injection and exhaust), a T2 copper spiral separation net, a brass body a 360° rotating water inlet and outlet valve. The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal).

The oxygen content of the medium/impurity area is higher than that of the impurity/metal area. Under this condition, a local oxygen difference electrode will be formed, and under the action of the medium flow, the oxygen difference electrode will corrode the metal surface. Corrosion of the oxygen differential electrode, like air oxidation corrosion, will shorten the life of the system components or even completely damage them, and greatly reduce the heat transfer (cold) efficiency. After installing this product, when the medium flows into the valve cavity, the flow rate slows down, and the $\geq 5 \mu\text{m}$ fine debris mixed in the medium forms a vortex around the spiral separation net. When the system is in normal operation, it can quickly discharge sundries and reduce the loss of heating surface.

Features:

1. When the flow rate is $\leq 1\text{m/s}$, the removal rate of $\geq 5\mu\text{m}$ impurities can reach more than 95% after running the system 50 times;
2. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
3. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
4. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
5. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: $\varnothing 22$ 、 $\varnothing 29$ 、 $\varnothing 35$ 、 $\varnothing 41$ 、 $\varnothing 54$
 Connection: SWT
 Applicable media: Water, Water/Ethylene glycol(1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet ring:
 9000gauss Neodymium magnet

Item Description:

Trap	Series	Swt	Caliber
T	6	S	XX

MODEL	CONNECTION CALIBER	W	W1	H	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[g]	[¥]
T6S20	$\varnothing 22$	3.54	2.36	6.25		
T6S25	$\varnothing 29$	3.85	2.36	6.92		
T6S32	$\varnothing 35$	4.48	2.79	6.92		
T6S40	$\varnothing 41$	4.80	2.79	7.63		
T6S50	$\varnothing 54$	5.98	3.46	10.03		



T6 Dirt Separator With Magnet SPTrap Best

T6 Series rotate magnetic dirt separator are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a manual exhaust valve on the top (mainly for water injection and exhaust), a T2 copper spiral separation net, a brass body a 360° rotating water inlet and outlet valve. The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal).

The oxygen content of the medium/impurity area is higher than that of the impurity/metal area. Under this condition, a local oxygen difference electrode will be formed, and under the action of the medium flow, the oxygen difference electrode will corrode the metal surface. Corrosion of the oxygen differential electrode, like air oxidation corrosion, will shorten the life of the system components or even completely damage them, and greatly reduce the heat transfer (cold) efficiency. After installing this product, when the medium flows into the valve cavity, the flow rate slows down, and the $\geq 5 \mu\text{m}$ fine debris mixed in the medium forms a vortex around the spiral separation net. When the system is in normal operation, it can quickly discharge sundries and reduce the loss of heating surface.

Features:

1. When the flow rate is $\leq 1\text{m/s}$, the removal rate of $\geq 5\mu\text{m}$ impurities can reach more than 95% after running the system 50 times;
2. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
3. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
4. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
5. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: 3/4"、1"、1-1/4"、1-1/2"、2"
 Connection: PRESS FIT
 Applicable media: Water, Water/Ethylene glycol(1:1)

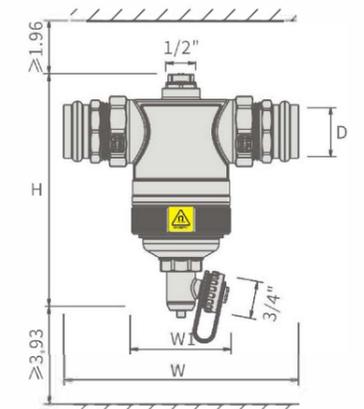
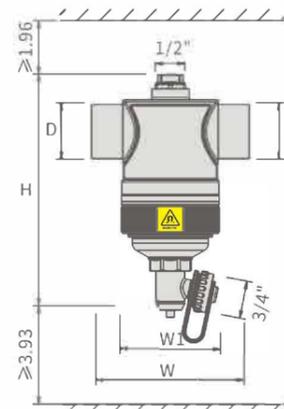
Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet ring:
 9000gauss Neodymium magnet

Item Description:

Trap	Series	Press fit	Caliber
T	6	P	XX

MODEL	CONNECTION CALIBER	W	W1	H	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[g]	[¥]
T6P20	3/4"	6.02	2.36	6.29		
T6P25	1"	6.22	2.36	6.96		
T6P32	1-1/4"	6.69	2.80	6.98		
T6P40	1-1/2"	6.89	2.80	7.65		
T6P50	2"	8.34	3.46	10.47		



T6 Dirt Separator With Magnet SPTrap Best

T6 Series rotate magnetic dirt separator are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a manual exhaust valve on the top (mainly for water injection and exhaust), a T2 copper spiral separation net, a brass body a 360° rotating water inlet and outlet valve. The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal).

The oxygen content of the medium/impurity area is higher than that of the impurity/metal area. Under this condition, a local oxygen difference electrode will be formed, and under the action of the medium flow, the oxygen difference electrode will corrode the metal surface. Corrosion of the oxygen differential electrode, like air oxidation corrosion, will shorten the life of the system components or even completely damage them, and greatly reduce the heat transfer (cold) efficiency. After installing this product, when the medium flows into the valve cavity, the flow rate slows down, and the $\geq 5 \mu\text{m}$ fine debris mixed in the medium forms a vortex around the spiral separation net. When the system is in normal operation, it can quickly discharge sundries and reduce the loss of heating surface.

Features:

1. When the flow rate is $\leq 1\text{m/s}$, the removal rate of $\geq 5\mu\text{m}$ impurities can reach more than 95% after running the system 50 times;
2. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
3. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
4. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
5. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max. 10bar
 Operating temperature: Max. 110°C
 Size range: 3/4", 1", 1-1/4", 1-1/2", 2"
 Connection: NPT
 Applicable media: Water, Water/Ethylene glycol (1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet rod:
 11000gauss Neodymium magnet

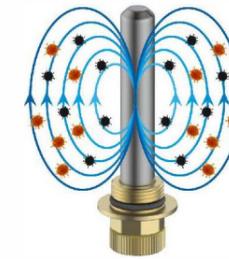
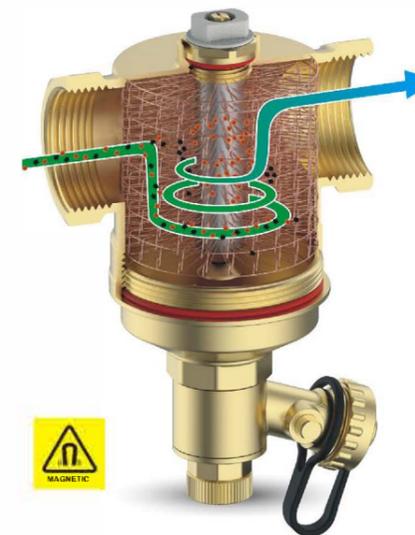
Item Description:

Trap	Series	Npt	Caliber
T	6	NPT	XX

MODEL	CONNECTION CALIBER	W	W1	H	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[g]	[¥]
T6NPT20	3/4"	3.26	2.36	5.82		
T6NPT25	1"	3.38	2.36	6.49		
T6NPT32	1-1/4"	4.09	2.79	6.49		
T6NPT40	1-1/2"	4.09	2.79	7.16		
T6NPT50	2"	4.80	3.42	9.72		



Product principle:

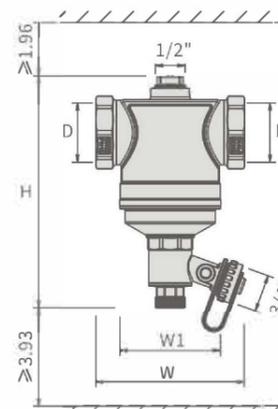
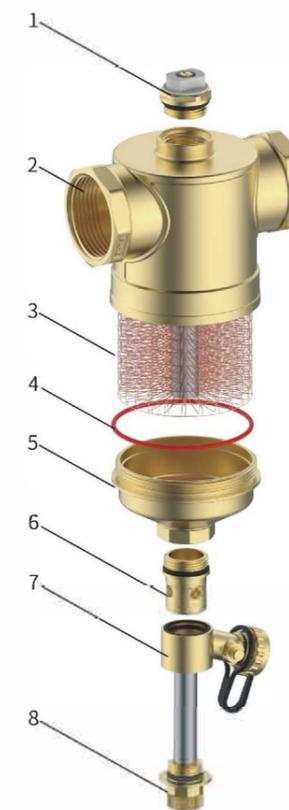


Magnet Design
 Magnetic impurities in water will be affected by Strong magnetic field, attracted by the magnetic rod. So magnetic impurities will not enter the boiler inside and cause him to destroy



Copper spiral mesh
 Micron filtration to separate free Air, microbubbles and other non-Magnetic impurities

BOM:



No	Code	Name	Material	Quantity
1	3504800301	Manual air vent	CnZn42Pb3	1
2	3500180001	Filter valve body	CnZn42Pb3	1
3	3502007901	T2 spiral mesh	T2	1
4	EPDM6620	O ring	EPDM	1
5	3503303311	M66 part body	CnZn42Pb3	1
6	3504303301	Drain valve cartridge	CnZn42Pb3	1
7	5506700501	Drain valve assembly	CnZn42Pb3	1
8	5507101001	Magnet rod	Neodymium	1

T6 Dirt Separator With Magnet SPTrap Best

T6 Series rotate magnetic dirt separator are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a manual exhaust valve on the top (mainly for water injection and exhaust), a T2 copper spiral separation net, a brass body a 360° rotating water inlet and outlet valve. The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal).

The oxygen content of the medium/impurity area is higher than that of the impurity/metal area. Under this condition, a local oxygen difference electrode will be formed, and under the action of the medium flow, the oxygen difference electrode will corrode the metal surface. Corrosion of the oxygen differential electrode, like air oxidation corrosion, will shorten the life of the system components or even completely damage them, and greatly reduce the heat transfer (cold) efficiency. After installing this product, when the medium flows into the valve cavity, the flow rate slows down, and the $\geq 5 \mu\text{m}$ fine debris mixed in the medium forms a vortex around the spiral separation net. When the system is in normal operation, it can quickly discharge sundries and reduce the loss of heating surface.

Features:

1. When the flow rate is $\leq 1\text{m/s}$, the removal rate of $\geq 5\mu\text{m}$ impurities can reach more than 95% after running the system 50 times;
2. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
3. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
4. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
5. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
Operating temperature: Max.110°C
Size range: $\varnothing 22$ 、 $\varnothing 29$ 、 $\varnothing 35$ 、 $\varnothing 41$ 、 $\varnothing 54$
Connection: SWT
Applicable media: Water, Water/Ethylene glycol(1:1)

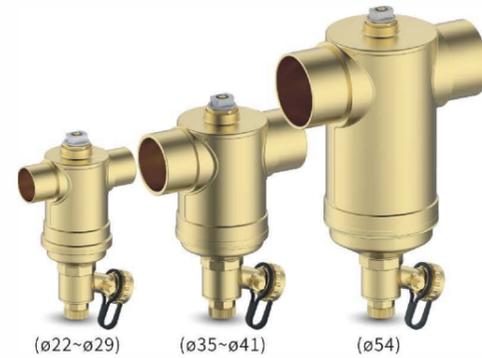
Bom list:

Body: Brass forging
Strainer: T2 Copper spiral mesh
Magnet rod:
11000gauss Neodymium magnet

Item Description:

Trap	Series	Swt	Caliber
T	6	S	XX

MODEL	CONNECTION CALIBER	W	W1	H	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[g]	[¥]
T6S20	$\varnothing 22$	3.26	2.36	5.82		
T6S25	$\varnothing 29$	3.85	2.36	6.49		
T6S32	$\varnothing 35$	4.48	2.79	6.49		
T6S40	$\varnothing 41$	4.80	2.79	7.16		
T6S50	$\varnothing 54$	5.98	3.42	9.72		



T6 Dirt Separator With Magnet SPTrap Best

T6 Series rotate magnetic dirt separator are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a manual exhaust valve on the top (mainly for water injection and exhaust), a T2 copper spiral separation net, a brass body a 360° rotating water inlet and outlet valve. The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal).

The oxygen content of the medium/impurity area is higher than that of the impurity/metal area. Under this condition, a local oxygen difference electrode will be formed, and under the action of the medium flow, the oxygen difference electrode will corrode the metal surface. Corrosion of the oxygen differential electrode, like air oxidation corrosion, will shorten the life of the system components or even completely damage them, and greatly reduce the heat transfer (cold) efficiency. After installing this product, when the medium flows into the valve cavity, the flow rate slows down, and the $\geq 5 \mu\text{m}$ fine debris mixed in the medium forms a vortex around the spiral separation net. When the system is in normal operation, it can quickly discharge sundries and reduce the loss of heating surface.

Features:

1. When the flow rate is $\leq 1\text{m/s}$, the removal rate of $\geq 5\mu\text{m}$ impurities can reach more than 95% after running the system 50 times;
2. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
3. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
4. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
5. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
Operating temperature: Max.110°C
Size range: 3/4"、1"、1-1/4"、1-1/2"、2"
Connection: PRESS FIT
Applicable media: Water, Water/Ethylene glycol(1:1)

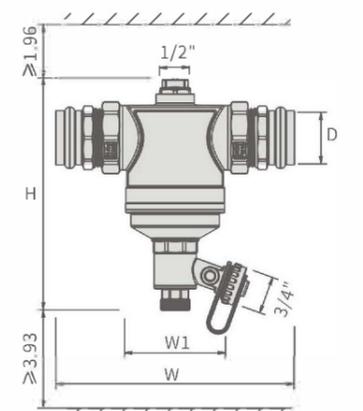
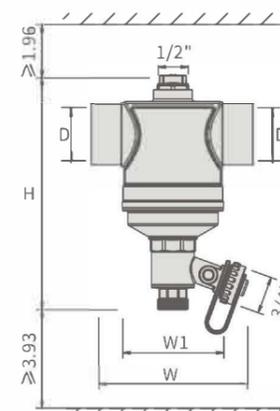
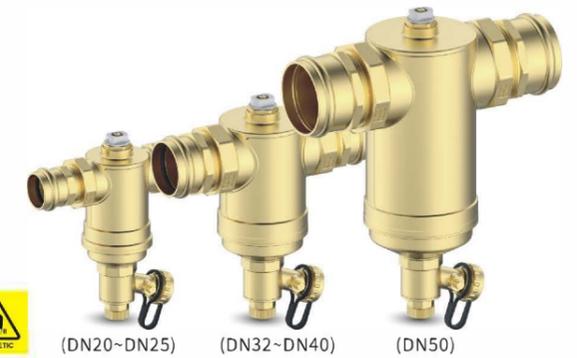
Bom list:

Body: Brass forging
Strainer: T2 Copper spiral mesh
Magnet rod:
11000gauss Neodymium magnet

Item Description:

Trap	Series	Press fit	Caliber
T	6	P	XX

MODEL	CONNECTION CALIBER	W	W1	H	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[g]	[¥]
T6P20	3/4"	6.02	2.36	5.81		
T6P25	1"	6.22	2.36	6.48		
T6P32	1-1/4"	6.69	2.78	6.50		
T6P40	1-1/2"	6.89	2.78	7.17		
T6P50	2"	8.35	3.43	9.74		



T6 Dirt Separator With Magnet & Swivel Connection SPTrap Best

T6 Series rotate magnetic dirt separator are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a manual exhaust valve on the top (mainly for water injection and exhaust), a T2 copper spiral separation net, a brass body a 360° rotating water inlet and outlet valve. The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal).

The oxygen content of the medium/impurity area is higher than that of the impurity/metal area. Under this condition, a local oxygen difference electrode will be formed, and under the action of the medium flow, the oxygen difference electrode will corrode the metal surface. Corrosion of the oxygen differential electrode, like air oxidation corrosion, will shorten the life of the system components or even completely damage them, and greatly reduce the heat transfer (cold) efficiency. After installing this product, when the medium flows into the valve cavity, the flow rate slows down, and the $\geq 5 \mu\text{m}$ fine debris mixed in the medium forms a vortex around the spiral separation net. When the system is in normal operation, it can quickly discharge sundries and reduce the loss of heating surface.

Features:

1. When the flow rate is $\leq 1\text{m/s}$, the removal rate of $\geq 5\mu\text{m}$ impurities can reach more than 95% after running the system 50 times;
2. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
3. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
4. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
5. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: 3/4"、1"、1-1/4"、1-1/2"、2"
 Connection: NPT
 Applicable media: Water, Water/Ethylene glycol(1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet ring:
 9000gauss Neodymium magnet

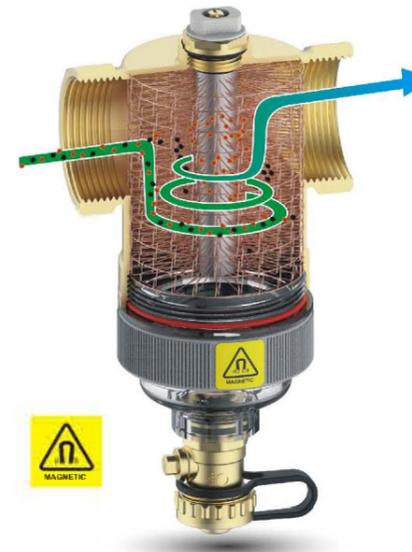
Item Description:

Trap	Series	Npt	Caliber
T	6	NPT	XX

MODEL	CONNECTION CALIBER	W	W1	H	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[g]	[¥]
T6NPT20	3/4"	3.26	2.36	6.49		
T6NPT25	1"	3.38	2.36	7.16		
T6NPT32	1-1/4"	4.09	2.79	7.16		
T6NPT40	1-1/2"	4.09	2.79	7.87		
T6NPT50	2"	4.80	3.42	10.47		



Product principle:

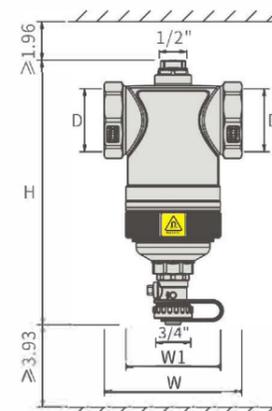


Magnet Design
 Magnetic impurities in water will be affected by Strong magnetic field, attracted by the magnetic rod. So magnetic impurities will not enter the boiler inside and cause him to destroy



Copper spiral mesh
 Micron filtration to separate free Air, microbubbles and other non-Magnetic impurities

BOM:



No	Code	Name	Material	Quantity
1	3504800301	Manual air vent	CnZn42Pb3	1
2	3500180001	Filter valve body	CnZn42Pb3	1
3	3502007901	T2 spiral mesh	T2	1
4	EPDM6620	O ring	EPDM	1
5	3502106133	Filter bowl	Pa12	1
6	5506601299	Magnet ring	Neodymium	1
7	3501415001	Drain valve connector	CnZn42Pb3	1
8	5505806099	Ball valve	CnZn42Pb3	1

T6 Dirt Separator With Magnet & Swivel Connection SPTrap Best

T6 Series rotate magnetic dirt separator are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a manual exhaust valve on the top (mainly for water injection and exhaust), a T2 copper spiral separation net, a brass body a 360° rotating water inlet and outlet valve. The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal).

The oxygen content of the medium/impurity area is higher than that of the impurity/metal area. Under this condition, a local oxygen difference electrode will be formed, and under the action of the medium flow, the oxygen difference electrode will corrode the metal surface. Corrosion of the oxygen differential electrode, like air oxidation corrosion, will shorten the life of the system components or even completely damage them, and greatly reduce the heat transfer (cold) efficiency. After installing this product, when the medium flows into the valve cavity, the flow rate slows down, and the $\geq 5 \mu\text{m}$ fine debris mixed in the medium forms a vortex around the spiral separation net. When the system is in normal operation, it can quickly discharge sundries and reduce the loss of heating surface.

Features:

1. When the flow rate is $\leq 1\text{m/s}$, the removal rate of $\geq 5\mu\text{m}$ impurities can reach more than 95% after running the system 50 times;
2. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
3. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
4. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
5. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: $\varnothing 22$ 、 $\varnothing 29$ 、 $\varnothing 35$ 、 $\varnothing 41$ 、 $\varnothing 54$
 Connection: SWT
 Applicable media: Water, Water/Ethylene glycol(1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet ring:
 9000gauss Neodymium magnet

Item Description:

Trap	Series	Swt	Caliber
T	6	S	XX

MODEL	CONNECTION CALIBER	W	W1	H	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[g]	[¥]
T6S20	$\varnothing 22$	3.26	2.36	6.49		
T6S25	$\varnothing 29$	3.85	2.36	7.16		
T6S32	$\varnothing 35$	4.48	2.79	7.16		
T6S40	$\varnothing 41$	4.80	2.79	7.87		
T6S50	$\varnothing 54$	5.98	3.42	10.47		



T6 Dirt Separator With Magnet & Swivel Connection SPTrap Best

T6 Series rotate magnetic dirt separator are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a manual exhaust valve on the top (mainly for water injection and exhaust), a T2 copper spiral separation net, a brass body a 360° rotating water inlet and outlet valve. The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal).

The oxygen content of the medium/impurity area is higher than that of the impurity/metal area. Under this condition, a local oxygen difference electrode will be formed, and under the action of the medium flow, the oxygen difference electrode will corrode the metal surface. Corrosion of the oxygen differential electrode, like air oxidation corrosion, will shorten the life of the system components or even completely damage them, and greatly reduce the heat transfer (cold) efficiency. After installing this product, when the medium flows into the valve cavity, the flow rate slows down, and the $\geq 5 \mu\text{m}$ fine debris mixed in the medium forms a vortex around the spiral separation net. When the system is in normal operation, it can quickly discharge sundries and reduce the loss of heating surface.

Features:

1. When the flow rate is $\leq 1\text{m/s}$, the removal rate of $\geq 5\mu\text{m}$ impurities can reach more than 95% after running the system 50 times;
2. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
3. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
4. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
5. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: 3/4"、1"、1-1/4"、1-1/2"、2"
 Connection: PRESS FIT
 Applicable media: Water, Water/Ethylene glycol(1:1)

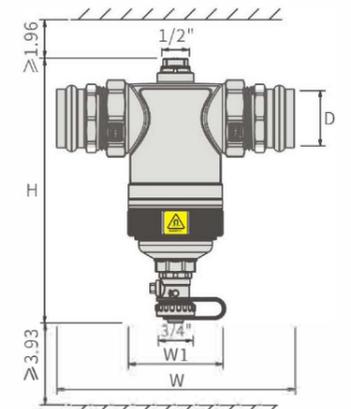
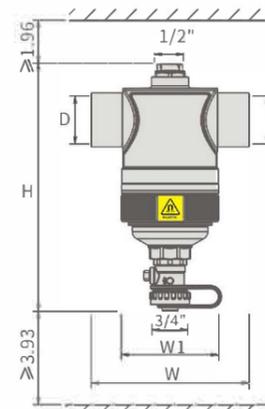
Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet ring:
 9000gauss Neodymium magnet

Item Description:

Trap	Series	Press fit	Caliber
T	6	P	XX

MODEL	CONNECTION CALIBER	W	W1	H	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[g]	[¥]
T6P20	3/4"	6.02	2.36	6.48		
T6P25	1"	6.22	2.36	7.15		
T6P32	1-1/4"	6.69	2.80	7.17		
T6P40	1-1/2"	6.89	2.80	7.86		
T6P50	2"	8.35	3.44	10.47		



T7 Dirt Separator With Magnet & Swivel Connection SPTrap Best

T7 Series rotate magnetic dirt separator are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

The product is composed of a manual exhaust valve on the top (mainly for water injection and exhaust), a T2 copper spiral separation net, a brass body a 360° rotating water inlet and outlet valve. The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal).

The oxygen content of the medium/impurity area is higher than that of the impurity/metal area. Under this condition, a local oxygen difference electrode will be formed, and under the action of the medium flow, the oxygen difference electrode will corrode the metal surface. Corrosion of the oxygen differential electrode, like air oxidation corrosion, will shorten the life of the system components or even completely damage them, and greatly reduce the heat transfer (cold) efficiency. After installing this product, when the medium flows into the valve cavity, the flow rate slows down, and the $\geq 5 \mu\text{m}$ fine debris mixed in the medium forms a vortex around the spiral separation net. When the system is in normal operation, it can quickly discharge sundries and reduce the loss of heating surface.

Features:

1. There are two water inlet methods, vertical and horizontal, and can be rotated to connect, which greatly facilitates installation and maintenance;
2. When the flow rate is $\leq 1\text{m/s}$, the removal rate of $\geq 5\mu\text{m}$ impurities can reach more than 95% after running the system 50 times;
3. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
4. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
5. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
6. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: 3/4", 1", 1-1/4", 1-1/2"
 Connection: NPT
 Applicable media: Water, Water/Ethylene glycol(1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet ring: 9000gauss Neodymium magnet

Item Description:

Trap	Series	Npt	Caliber
T	7	NPT	XX

MODEL	CONNECTION CALIBER	W	W1	H	H1	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[inch]	[g]	[¥]
T7NPT20	3/4"	4.40	2.36	6.22	3.26		
T7NPT25	1"	5.55	2.79	7.12	3.81		
T7NPT32	1-1/4"	6.37	3.46	7.91	4.52		
T7NPT40	1-1/2"	6.78	3.46	9.20	4.92		



Product principle:

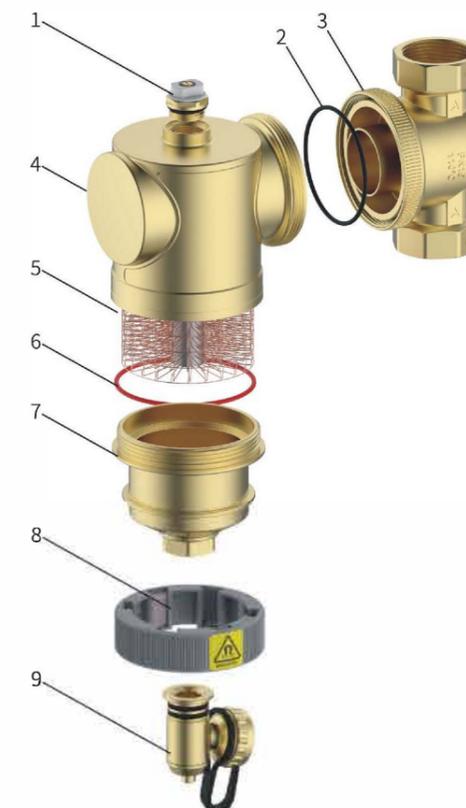


Magnet Design
 Magnetic impurities in water will be affected by Strong magnetic field, attracted by the magnetic rod. So magnetic impurities will not enter the boiler inside and cause him to destroy

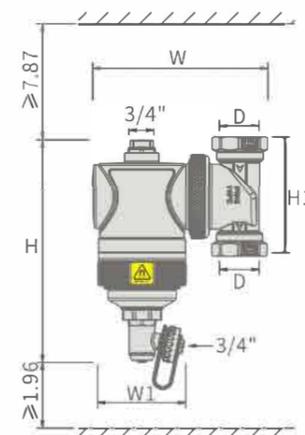


Copper spiral mesh
 Micron filtration to separate free Air, microbubbles and other non-Magnetic impurities

BOM:



No	Code	Name	Material	Quantity
1	3504800301	Manual air vent	CnZn42Pb3	1
2	EPDM5726	O ring	EPDM	1
3	3503305001	Universal part body	CnZn42Pb3	1
4	3500179201	Filter valve body	CnZn42Pb3	1
5	3502007901	T2 spiral mesh	T2	1
6	EPDM6620	O ring	EPDM	1
7	3503304101	M66 part body	CnZn42Pb3	1
8	5506601299	Magnet ring	Neodymium	1
9	5506700401	Drain valve assembly	HPb57-3	1



T7 Dirt Separator With Magnet & Swivel Connection SPTrap Best

T7Series rotate magnetic dirt separator are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps,air conditioning,heating and cooling system.

The product is composed of a manual exhaust valve on the top (mainly for water injection and exhaust), a T2 copper spiral separation net, a brass body a 360°rotating water inlet and outlet valve..The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal).

The oxygen content of the medium/impurity area is higher than that of the impurity/metal area. Under this condition, a local oxygen difference electrode will be formed, and under the action of the medium flow, the oxygen difference electrode will corrode the metal surface. Corrosion of the oxygen differential electrode, like air oxidation corrosion, will shorten the life of the system components or even completely damage them, and greatly reduce the heat transfer (cold) efficiency.After installing this product, when the medium flows into the valve cavity, the flow rate slows down, and the $\geq 5 \mu\text{m}$ fine debris mixed in the medium forms a vortex around the spiral separation net. When the system is in normal operation, it can quickly discharge sundries and reduce the loss of heating surface.

Features:

1. There are two water inlet methods, vertical and horizontal, and can be rotated to connect, which greatly facilitates installation and maintenance;
2. When the flow rate is $\leq 1\text{m/s}$, the removal rate of $\geq 5\mu\text{m}$ impurities can reach more than 95% after running the system 50 times;
3. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
4. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
5. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
6. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: $\phi 22$ 、 $\phi 29$ 、 $\phi 35$ 、 $\phi 41$
 Connection: SWT
 Applicable media: Water,Water/Ethylene glycol(1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet ring:
 9000gauss Neodymium magnet

Item Description:

Trap	Series	Swt	Caliber
T	7	S	XX

MODEL	CONNECTION CALIBER	W	W1	H	H1	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[inch]	[g]	[¥]
T7S20	$\phi 22$	4.21	2.36	6.22	3.50		
T7S25	$\phi 29$	5.31	2.79	7.12	3.81		
T7S32	$\phi 35$	6.18	3.44	7.91	4.53		
T7S40	$\phi 41$	6.78	3.44	9.2	4.92		



T7 Dirt Separator With Magnet & Swivel Connection SPTrap Best

T7Series rotate magnetic dirt separator are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps,air conditioning,heating and cooling system.

The product is composed of a manual exhaust valve on the top (mainly for water injection and exhaust), a T2 copper spiral separation net, a brass body a 360°rotating water inlet and outlet valve..The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal).

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Features:

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3. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
4. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
5. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
6. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: 3/4"、1"、1-1/4"、1-1/2"
 Connection: PRESS FIT
 Applicable media: Water,Water/Ethylene glycol(1:1)

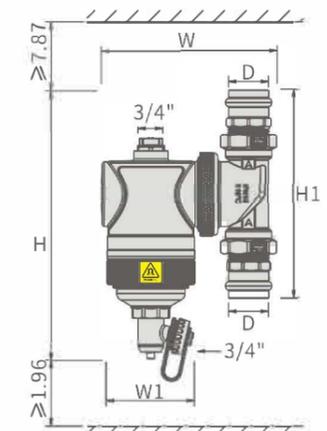
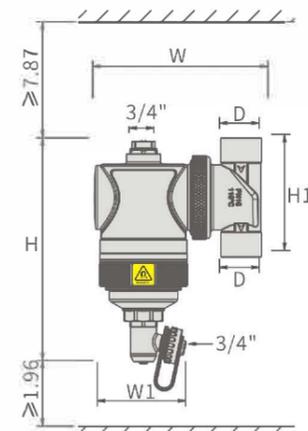
Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet ring:
 9000gauss Neodymium magnet

Item Description:

Trap	Series	Pressfit	Caliber
T	7	P	XX

MODEL	CONNECTION CALIBER	W	W1	H	H1	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[inch]	[g]	[¥]
T7P20	3/4"	4.42	2.36	7.64	6.02		
T7P25	1"	5.55	2.79	8.61	6.65		
T7P32	1-1/4"	6.37	3.46	9.40	7.13		
T7P40	1-1/2"	6.78	3.46	10.62	7.76		



T7 Dirt Separator With Magnet & Swivel Connection SPTrap Best

T7 Series rotate magnetic dirt separator are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

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Features:

1. There are two water inlet methods, vertical and horizontal, and can be rotated to connect, which greatly facilitates installation and maintenance;
2. When the flow rate is $\leq 1\text{m/s}$, the removal rate of $\geq 5\mu\text{m}$ impurities can reach more than 95% after running the system 50 times;
3. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
4. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
5. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
6. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: 3/4", 1", 1-1/4", 1-1/2"
 Connection: NPT
 Applicable media: Water, Water/Ethylene glycol(1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet rod:
 11000gauss Neodymium magnet

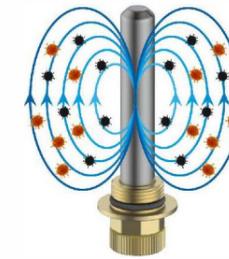
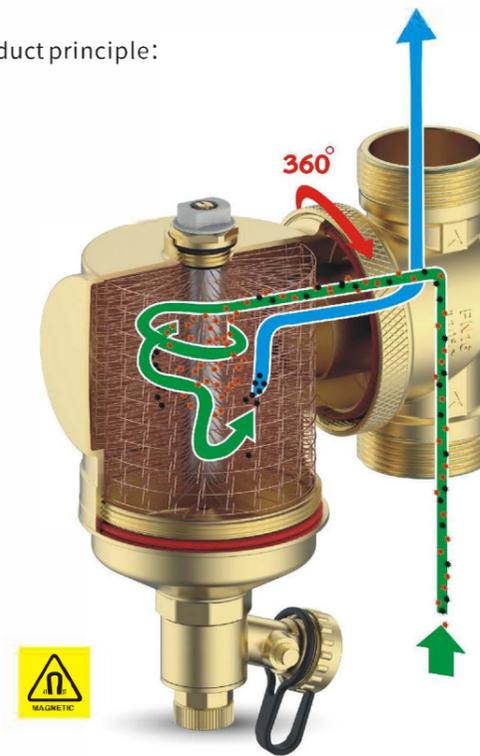
Item Description:

Trap	Series	Npt	Caliber
T	7	NPT	XX

MODEL	CONNECTION CALIBER	W	W1	H	H1	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[inch]	[g]	[¥]
T7NPT20	3/4"	4.40	2.36	5.70	3.26		
T7NPT25	1"	5.55	2.79	6.61	3.81		
T7NPT32	1-1/4"	6.37	3.46	7.55	4.52		
T7NPT40	1-1/2"	6.77	3.46	8.89	5.03		



Product principle:

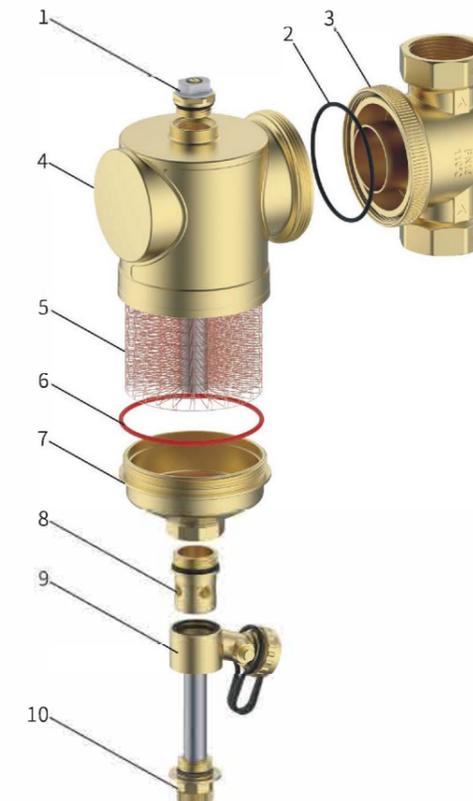


Magnet Design
 Magnetic impurities in water will be affected by Strong magnetic field, attracted by the magnetic rod. So magnetic impurities will not enter the boiler inside and cause him to destroy

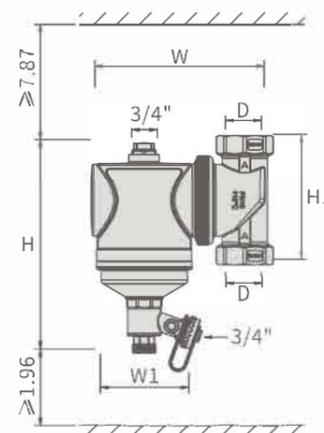


Copper spiral mesh
 Micron filtration to separate free Air, microbubbles and other non-Magnetic impurities

BOM:



No	Code	Name	Material	Quantity
1	3504800301	Manual air vent	CnZn42Pb3	1
2	EPDM5726	O ring	EPDM	1
3	3503305001	Universal part body	CnZn42Pb3	1
4	3500179201	Filter valve body	CnZn42Pb3	1
5	3502007901	T2 spiral mesh	T2	1
6	EPDM6620	O ring	EPDM	1
7	3503303311	M66 part body	CnZn42Pb3	1
8	3504303301	Drain valve cartridge	CnZn42Pb3	1
9	5506700501	Drain valve assembly	CnZn42Pb3	1
10	5507101001	Magnet rod	Neodymium	1



T7 Dirt Separator With Magnet & Swivel Connection SPTrap Best

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The oxygen content of the medium/impurity area is higher than that of the impurity/metal area. Under this condition, a local oxygen difference electrode will be formed, and under the action of the medium flow, the oxygen difference electrode will corrode the metal surface. Corrosion of the oxygen differential electrode, like air oxidation corrosion, will shorten the life of the system components or even completely damage them, and greatly reduce the heat transfer (cold) efficiency.After installing this product, when the medium flows into the valve cavity, the flow rate slows down, and the $\geq 5 \mu\text{m}$ fine debris mixed in the medium forms a vortex around the spiral separation net. When the system is in normal operation, it can quickly discharge sundries and reduce the loss of heating surface.

Features:

1. There are two water inlet methods, vertical and horizontal, and can be rotated to connect, which greatly facilitates installation and maintenance;
2. When the flow rate is $\leq 1\text{m/s}$, the removal rate of $\geq 5\mu\text{m}$ impurities can reach more than 95% after running the system 50 times;
3. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
4. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
5. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
6. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: $\phi 22$ 、 $\phi 29$ 、 $\phi 35$ 、 $\phi 41$
 Connection: SWT
 Applicable media: Water,Water/Ethylene glycol(1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet rod:
 11000gauss Neodymium magnet

Item Description:

Trap	Series	Swt	Caliber
T	7	S	XX

MODEL	CONNECTION CALIBER	W	W1	H	H1	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[inch]	[g]	[¥]
T7S20	$\phi 22$	4.21	2.36	5.70	3.50		
T7S25	$\phi 29$	5.31	2.79	6.61	3.81		
T7S32	$\phi 35$	6.18	3.46	7.55	4.52		
T7S40	$\phi 41$	6.49	3.46	8.89	5.03		



T7 Dirt Separator With Magnet & Swivel Connection SPTrap Best

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6. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: 3/4"、1"、1-1/4"、1-1/2"
 Connection: PRESS FIT
 Applicable media: Water,Water/Ethylene glycol(1:1)

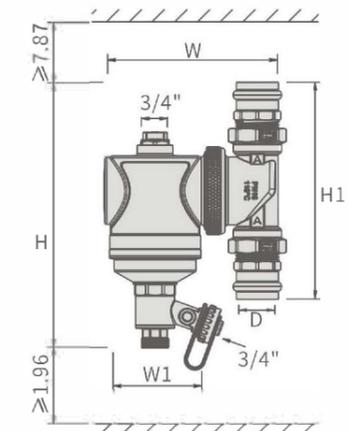
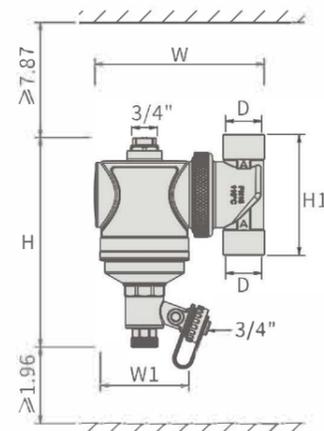
Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet rod:
 11000gauss Neodymium magnet

Item Description:

Trap	Series	Pressfit	Caliber
T	7	P	XX

MODEL	CONNECTION CALIBER	W	W1	H	H1	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[inch]	[g]	[¥]
T7P20	3/4"	4.40	2.36	7.17	6.02		
T7P25	1"	5.55	2.79	8.14	6.65		
T7P32	1-1/4"	6.38	3.43	9.04	7.13		
T7P40	1-1/2"	6.69	3.43	10.27	7.75		



T7 Dirt Separator With Magnet & Swivel Connection SPTrap Best

T7 Series rotate magnetic dirt separator are usually used for efficient and energy-saving operation of water circulation systems such as boilers, heat pumps, air conditioning, heating and cooling system.

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3. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
4. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
5. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
6. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: 3/4", 1", 1-1/4", 1-1/2"
 Connection: NPT
 Applicable media: Water, Water/Ethylene glycol(1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet ring: 9000gauss Neodymium magnet

Item Description:

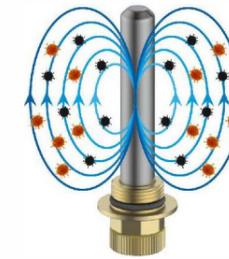
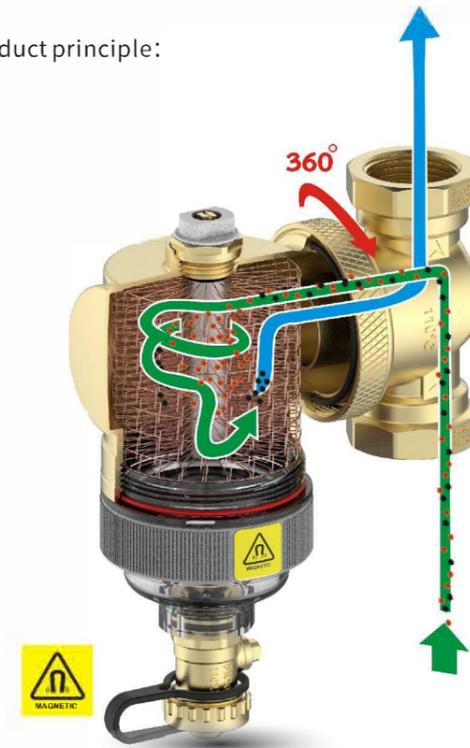
Trap	Series	Npt	Caliber
T	7	NPT	XX

MODEL	CONNECTION CALIBER	W	W1	H	H1	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[inch]	[g]	[¥]
T7NPT20	3/4"	4.40	2.36	6.37	3.26		
T7NPT25	1"	5.55	2.79	7.28	3.81		
T7NPT32	1-1/4"	6.37	3.46	8.22	4.52		
T7NPT40	1-1/2"	6.69	3.46	9.60	5.03		



DN20~DN25 DN32~DN40

Product principle:

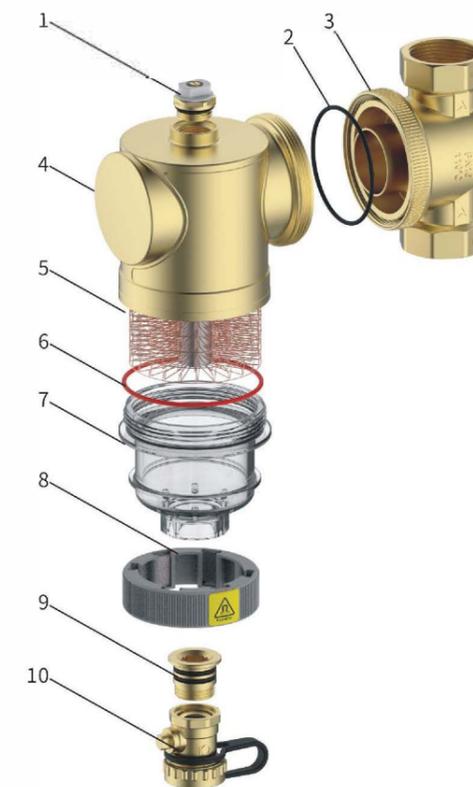


Magnet Design
 Magnetic impurities in water will be affected by Strong magnetic field, attracted by the magnetic rod. So magnetic impurities will not enter the boiler inside and cause him to destroy

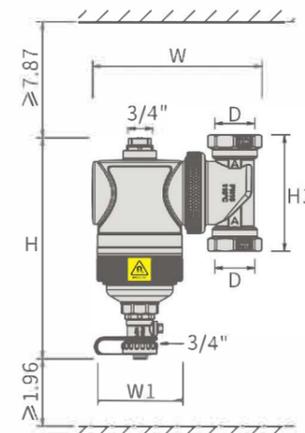


Copper spiral mesh
 Micron filtration to separate free Air, microbubbles and other non-Magnetic impurities

BOM:



No	Code	Name	Material	Quantity
1	3504800301	Manual air vent	CnZn42Pb3	1
2	EPDM5726	O ring	EPDM	1
3	3503305001	Universal part body	CnZn42Pb3	1
4	3500179201	Filter valve body	CnZn42Pb3	1
5	3502007901	T2 spiral mesh	T2	1
6	EPDM6620	O ring	EPDM	1
7	3502106133	Filter bowl	Pa12	1
8	5506601299	Magnet ring	Neodymium	1
9	3501415001	Drain valve connector	CnZn42Pb3	1
10	5505806099	Ball valve	CnZn42Pb3	1



T7 Dirt Separator With Magnet & Swivel Connection SPTrap Best

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Features:

1. There are two water inlet methods, vertical and horizontal, and can be rotated to connect, which greatly facilitates installation and maintenance;
2. When the flow rate is $\leq 1\text{m/s}$, the removal rate of $\geq 5\mu\text{m}$ impurities can reach more than 95% after running the system 50 times;
3. High-precision filtering of impurities with extremely low pressure loss (almost negligible);
4. It is no need to close the valve or open the bypass line, and only takes five seconds to discharge the sewage when the system is running normally;
5. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
6. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: $\varnothing 22$ 、 $\varnothing 29$ 、 $\varnothing 35$ 、 $\varnothing 41$
 Connection: SWT
 Applicable media: Water,Water/Ethylene glycol(1:1)

Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet ring:
 9000gauss Neodymium magnet

Item Description:

Trap	Series	Swt	Caliber
T	7	S	XX

MODEL	CONNECTION CALIBER	W	W1	H	H1	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[inch]	[g]	[¥]
T7S20	$\varnothing 22$	4.21	2.36	6.37	3.50		
T7S25	$\varnothing 29$	5.55	2.79	7.28	3.81		
T7S32	$\varnothing 35$	6.37	3.46	8.22	4.52		
T7S40	$\varnothing 41$	6.49	3.46	9.56	5.03		



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The product is composed of a manual exhaust valve on the top (mainly for water injection and exhaust), a T2 copper spiral separation net, a brass body a 360°rotating water inlet and outlet valve..The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal).

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5. Continuously ensure that the system components are in good condition and avoid the risk of system failure for a long time;
6. The high-strength magnet absorbs fine ferromagnetic impurities in the system and prevents them from flowing back into the system.

Technical parameter:

Working pressure: Max.10bar
 Operating temperature: Max.110°C
 Size range: 3/4"、1"、1-1/4"、1-1/2"
 Connection: PRESS FIT
 Applicable media: Water,Water/Ethylene glycol(1:1)

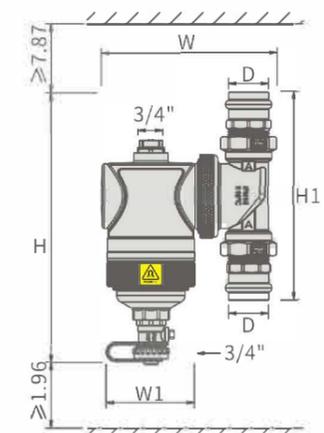
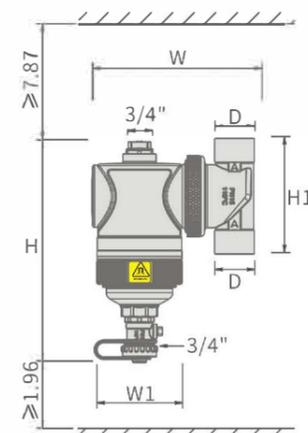
Bom list:

Body: Brass forging
 Strainer: T2 Copper spiral mesh
 Magnet ring:
 9000gauss Neodymium magnet

Item Description:

Trap	Series	Pressfit	Caliber
T	7	P	XX

MODEL	CONNECTION CALIBER	W	W1	H	H1	WEIGHT	Unit Price
	[D]	[inch]	[inch]	[inch]	[inch]	[g]	[¥]
T7P20	3/4"	4.42	2.36	7.83	6.02		
T7P25	1"	5.55	2.79	8.80	6.65		
T7P32	1-1/4"	6.38	3.44	9.72	7.13		
T7P40	1-1/2"	6.69	3.46	10.94	7.75		



T8 Particle and Dirt separator

SPTrap BEST

T8 Spiral precision decontamination device (horizontal installation) is a general-purpose decontamination equipment for water circulation system to remove precision $\geq 5\mu\text{m}$ level. It is usually used in boiler heating, central heating in winter, central cooling in summer, and water circulation air conditioning and other systems for efficient and energy-saving operation.

The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal).

The oxygen content of the medium/impurity area is higher than that of the impurity/metal area. Under this condition, a local oxygen difference electrode will be formed, and under the action of the medium flow, the oxygen difference electrode will corrode the metal surface. Corrosion of the oxygen differential electrode, like air oxidation corrosion, will shorten the life of the system components or even completely damage them, and greatly reduce the heat transfer (cold) efficiency. After installing this product, when the medium flows into the valve cavity, the flow rate slows down, and the $\geq 5\mu\text{m}$ fine debris mixed in the medium forms a vortex around the spiral separation net. When the system is in normal operation, it can quickly discharge sundries and reduce the loss of heating surface.



Internal T2 copper spiral mesh

(DN50~DN300)

Features:

1. Uninterrupted interception of impurities $\geq 5\mu\text{m}$, the decontamination effect is over 90% and the pressure loss is extremely low;
2. When the system is running normally, it can quickly discharge sewage without stopping;
3. Reduce the risk of system downtime due to long-term operation;
4. The product does not need to install a blocking valve and bypass;
5. Ensure the continuous and stable operation of cold and heat sources and temperature control valves;
6. Reduce the risk of system failure and downtime under long-term operation.

⚠ A coarse filter valve needs to be installed at the front end of the equipment to avoid damage to the spiral separation net

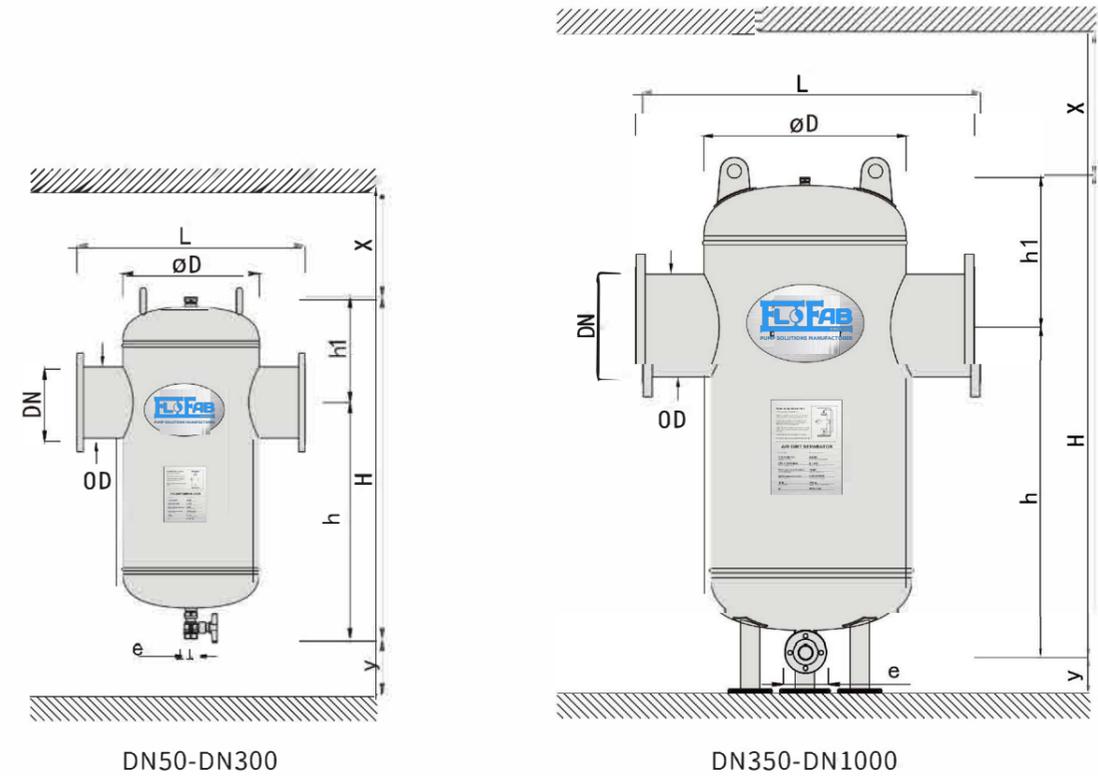
Boom list:

- Body: Carbon steel welded tank
- Strainer: T2 Copper spiral mesh
- Drain valve: Brass ball valve
- Flanged Ball Valve (Ductile Iron/Cast Steel)



Internal T2 copperspiral mesh

(DN350~DN1000)



DN50-DN300

DN350-DN1000

型号说明: Decontamination Horizontal Flange Caliber Pressure Pressure Value
 T 8 EF XX P XX

Technical parameter: Applicable media: water, water/ethylene glycol(1:1)
 Working pressure: 16bar Operating temperature: $-20^{\circ}\text{C}\sim 110^{\circ}\text{C}$ Average flow velocity: 1.5m/s

MODEL	CONNECTION CALIBER	OD	H	L	ØD	h	h1	e	X	Y	Average Flow rate	Average Flow velocity	Pressure drop at average velocity	Volume	Weight
		[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[m ³ /h]	[L/S]	[kPa]	[升]	[kg]
T8EF50P16	DN50	2.37	15.35	13.77	6.25	10.62	4.76	1"	>1.96	>20.07	12.50	3.47	3.0	5.0	13.0
T8EF65P16	DN65	2.99	15.35	13.77	6.25	10.23	5.07	1"	>1.96	>20.07	20.00	5.56	2.7	5.0	15.0
T8EF80P16	DN80	3.50	19.68	18.50	8.62	13.97	5.82	1"	>1.96	>25.98	27.00	7.50	2.9	17.0	25.0
T8EF100P16	DN100	4.50	19.68	18.70	8.62	13.58	6.29	1"	>1.96	>25.98	47.00	13.06	3.7	17.0	26.0
T8EF125P16	DN125	5.50	26.37	25.00	12.75	18.70	7.59	1"	>1.96	>36.22	72.00	20.00	4.2	50.0	54.0
T8EF150P16	DN150	6.62	26.37	25.00	12.75	18.11	8.14	1"	>1.96	>36.22	108.00	30.00	4.9	50.0	56.0
T8EF200P16	DN200	8.62	35.43	30.51	15.98	24.21	11.02	1"	>1.96	>47.24	180.00	50.00	5.8	105.0	105.0
T8EF250P16	DN250	10.74	45.86	35.03	20.00	31.49	14.33	2"	>1.96	>62.99	288.00	80.00	6.9	210.0	170.0
T8EF300P16	DN300	12.75	54.33	39.56	24.01	37.59	16.77	2"	>1.96	>74.80	405.00	112.50	7.7	350.0	252.0
T8EF350P16	DN350	-	64.96	47.24	27.95	42.91	-	-	>1.96	-	500.00	-	-	-	481.0
T8EF400P16	DN400	-	68.50	55.90	31.88	44.48	-	-	>1.96	-	650.00	-	-	-	607.0
T8EF450P16	DN450	-	77.16	59.84	35.82	51.18	-	-	>1.96	-	850.00	-	-	-	772.0
T8EF500P16	DN500	-	82.67	63.77	40.15	54.72	-	-	>1.96	-	1060.00	-	-	-	974.0
T8EF600P16	DN600	-	-	-	48.03	-	-	-	-	-	-	-	-	-	-
T8EF700P16	DN700	-	-	-	55.90	-	-	-	-	-	-	-	-	-	-
T8EF800P16	DN800	-	-	-	63.77	-	-	-	-	-	-	-	-	-	-
T8EF900P16	DN900	-	-	-	71.65	-	-	-	-	-	-	-	-	-	-
T8EF1000P16	DN1000	-	-	-	79.52	-	-	-	-	-	-	-	-	-	-

Remarks: DN350~DN1000 need to be designed according to the customer's site, different pressure and temperature products (inspection hole is optional for large diameter products), and can be customized by consulting the factory.

T9 Particle and Dirt separator

SPTrap BEST

T9 Spiral precision decontamination device (horizontal installation) is a general-purpose decontamination equipment for water circulation system to remove precision $\geq 5\mu\text{m}$ level. It is usually used in boiler heating, central heating in winter, central cooling in summer, and water circulation air conditioning and other systems for efficient and energy-saving operation.

The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal).

The oxygen content of the medium/impurity area is higher than that of the impurity/metal area. Under this condition, a local oxygen difference electrode will be formed, and under the action of the medium flow, the oxygen difference electrode will corrode the metal surface. Corrosion of the oxygen differential electrode, like air oxidation corrosion, will shorten the life of the system components or even completely damage them, and greatly reduce the heat transfer (cold) efficiency. After installing this product, when the medium flows into the valve cavity, the flow rate slows down, and the $\geq 5\mu\text{m}$ fine debris mixed in the medium forms a vortex around the spiral separation net. When the system is in normal operation, it can quickly discharge sundries and reduce the loss of heating surface.

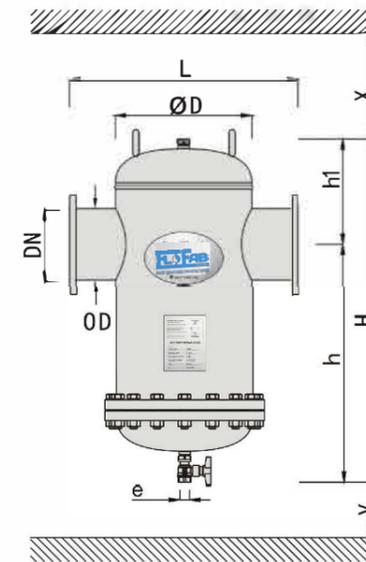
Features:

1. The tank is equipped with a detachable flange, which is convenient for filter element inspection and maintenance;
2. Uninterrupted interception of impurities $\geq 5\mu\text{m}$, the decontamination effect is over 90% and the pressure loss is extremely low;
3. When the system is running normally, it can quickly discharge sewage without stopping;
4. Reduce the risk of system downtime due to long-term operation;
5. The product does not need to install a blocking valve and bypass;
6. Ensure the continuous and stable operation of cold and heat sources and temperature control valves;
7. Reduce the risk of system failure and downtime under long-term operation.
8. The overhaul flange structure can clean and maintain the filter element.

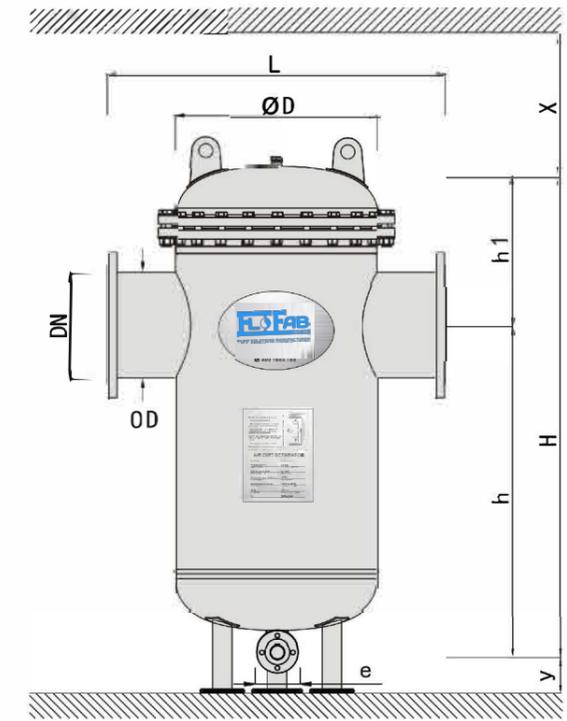
⚠ A coarse filter valve needs to be installed at the front end of the equipment to avoid damage to the spiral separation net

Boom list:

- Body: Carbon steel welded tank
- Strainer: T2 Copper spiral mesh
- Drain valve: Brass ball valve
- Flanged Ball Valve (Ductile Iron/Cast Steel)



DN50-DN300



DN350-DN1000

型号说明: Decontamination Horizontal Flange Caliber Pressure Pressure Value
 T 9 EF XX P XX

Technical parameter: Applicable media: water, water/ethylene glycol(1:1)
 Working pressure: 16bar Operating temperature: $-20^{\circ}\text{C} \sim 110^{\circ}\text{C}$ Average flow velocity: 1.5m/s

MODEL	CONNECTION CALIBER	OD	H	L	ØD	h	h1	e	X	Y	Average Flow rate	Average Flow velocity	Pressure drop at average velocity	Volume	Weight
		[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[m ³ /h]	[L/S]	[kPa]	[升]	[kg]
T9EF50P16	DN50	2.37	15.35	13.77	11.22	10.62	4.76	1"	>1.96	>20.07	12.50	3.47	3.0	5.0	33.0
T9EF65P16	DN65	2.99	15.35	13.77	11.22	10.23	5.07	1"	>1.96	>20.07	20.00	5.56	2.7	5.0	34.0
T9EF80P16	DN80	3.50	19.68	18.50	13.38	13.97	5.82	1"	>1.96	>25.98	27.00	7.50	2.9	17.0	48.0
T9EF100P16	DN100	4.50	19.68	18.70	13.38	13.58	6.29	1"	>1.96	>25.98	47.00	13.06	3.7	17.0	50.0
T9EF125P16	DN125	5.50	26.37	25.00	18.11	18.70	7.59	1"	>1.96	>36.22	72.00	20.00	4.2	50.0	103.0
T9EF150P16	DN150	6.62	26.37	25.00	18.11	18.11	8.14	1"	>1.96	>36.22	108.00	30.00	4.9	50.0	106.0
T9EF200P16	DN200	8.62	35.43	30.51	22.83	24.21	11.02	1"	>1.96	>47.24	180.00	50.00	5.8	105.0	195.0
T9EF250P16	DN250	10.74	45.86	35.03	28.14	31.49	14.33	2"	>1.96	>62.99	288.00	80.00	6.9	210.0	319.0
T9EF300P16	DN300	12.75	54.33	39.56	33.07	37.59	16.77	2"	>1.96	>74.80	405.00	112.50	7.7	350.0	499.0
T9EF350P16	DN350	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T9EF400P16	DN400	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T9EF450P16	DN450	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T9EF500P16	DN500	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T9EF600P16	DN600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T9EF700P16	DN700	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T9EF800P16	DN800	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T9EF900P16	DN900	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T9EF1000P16	DN1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks: DN350~DN1000 need to be designed according to the customer's site, different pressure and temperature products (inspection hole is optional for large diameter products), and can be customized by consulting the factory.

VT8 Deaerator and dirt separator SPCombi BEST

VT8 The spiral micro-bubble exhaust precision decontamination device (horizontal installation) is a general-purpose equipment that combines the functions of separating and discharging $\geq 10\mu\text{m}$ microbubbles and micron-sized $\geq 5\mu\text{m}$ impurities in the water circulation system. It is usually used in boiler heating, central heating in winter, central cooling in summer, and water circulation air conditioning and other systems for efficient and energy-saving operation.

The product is composed of the top leak-proof liquid quick automatic exhaust valve, T2 copper spiral separation net, steel welded valve body (upper gas storage chamber, middle microbubble decomposition, medium impurity separation and bottom sewage storage chamber) and sewage valve combination.

The debris in the system medium accumulates on the metal surface of the components, forming two different oxygen-containing areas (medium/impurity and debris/metal). The oxygen content of the medium/impurity area is higher than that of the impurity/metal area. Under this condition, a local oxygen difference electrode will be formed, and under the action of the medium flow, the oxygen difference electrode will corrode the metal surface. Corrosion of the oxygen differential electrode, like air oxidation corrosion, will shorten the life of the system components or even completely damage them. After installing this product, when the medium flows into the valve cavity, the flow rate slows down, and the $\geq 5\mu\text{m}$ fine debris mixed in the medium forms a vortex around the spiral separation net. When the system is in normal operation, it can quickly discharge sundries. This product can prevent system components from being shortened in life or even completely damaged, reducing the loss of heating area and preventing the reduction of heat transfer (cold) efficiency.



Internal T2
Copperspiral mesh



(DN50~DN300)



1. According to Henry's law, the higher the temperature, the easier it is for the gas in water to decompose. In principle, the spiral microbubble separation exhaust valve should be installed at the hottest part of the system.
2. Spiral microbubble separation exhaust valve is not suitable for steam medium.

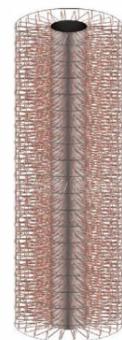
Features:

1. Uninterrupted decomposition of ≥ 10 micron microbubbles and automatic exhaust of more than 90%;
2. Uninterrupted interception of impurities $\geq 5\mu\text{m}$, the decontamination effect is over 90% and the pressure loss is extremely low;
3. When the system is running normally, it can quickly discharge sewage without stopping;
4. Reduce the risk of system downtime due to long-term operation;
5. The product does not need to install a blocking valve and bypass;
6. Saves cost and space compared to two separate products

! A coarse filter valve needs to be installed at the front end of the equipment to avoid damage to the spiral separation net

Boom list:

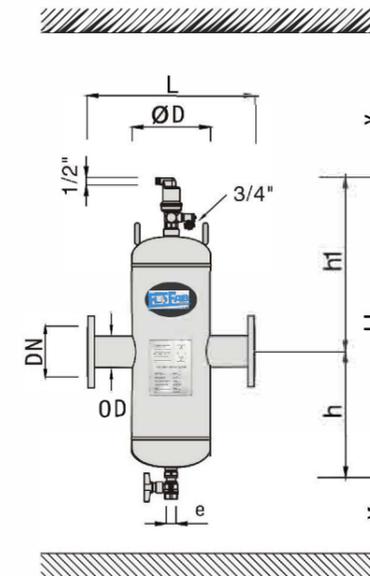
- Vent: Brass exhaust valve assembly
- Body: Carbon steel welded tank
- Strainer: T2 Copperspiral mesh
- Drain valve: Brass ball valve
- Flanged Ball Valve (Ductile Iron/Cast Steel)



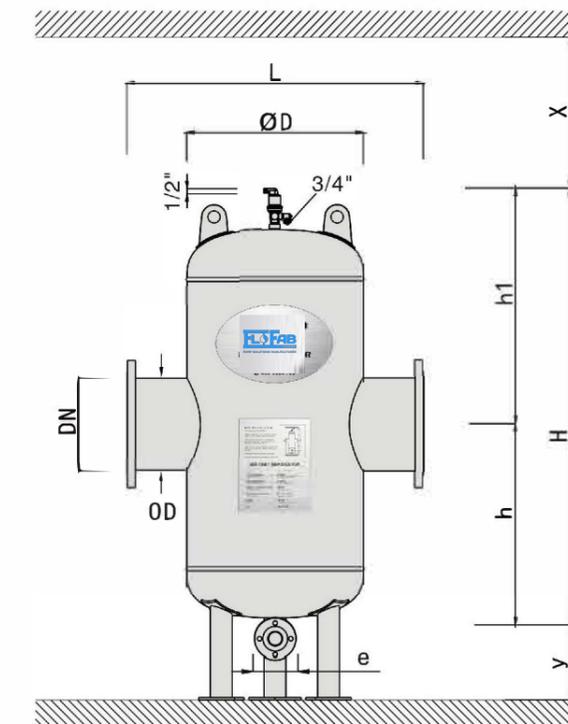
Internal T2
Copperspiral mesh



(DN350~DN1000)



DN50-DN300



DN350-DN1000

型号说明: Decontamination Horizontal Flange Caliber Pressure Pressure Value

VT 8 EF XX P XX

Technical parameter: Applicable media: water, water/ethylene glycol(1:1)

Working pressure: 16bar Operating temperature: -20°C~110°C Average flow velocity: 1.5m/s

MODEL	CONNECTION CALIBER	OD	H	L	ØD	h	h1	e	X	Y	Average Flow rate	Average Flow velocity	Pressure drop at average velocity	Volume	Weight
		[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[m ³ /h]	[L/S]	[kPa]	[升]	[kg]
VT8EF50P16	DN50	2.37	27.95	13.77	6.25	10.43	17.51	1"	>1.96	>20.07	12.50	3.47	3.0	7.0	17.0
VT8EF65P16	DN65	2.99	27.95	13.77	6.25	10.43	17.51	1"	>1.96	>20.07	20.00	5.56	2.7	7.0	18.0
VT8EF80P16	DN80	3.50	34.05	18.50	8.62	13.58	20.47	1"	>1.96	>25.98	27.00	7.50	2.9	25.0	31.0
VT8EF100P16	DN100	4.50	34.05	18.70	8.62	13.58	20.47	1"	>1.96	>25.98	47.00	13.06	3.7	25.0	33.0
VT8EF125P16	DN125	5.50	43.89	25.00	12.75	18.70	25.19	1"	>1.96	>36.22	72.00	20.00	4.2	75.0	70.0
VT8EF150P16	DN150	6.62	43.89	25.00	12.75	18.70	25.19	1"	>1.96	>36.22	108.00	30.00	4.9	75.0	73.0
VT8EF200P16	DN200	8.62	54.92	30.51	15.98	24.21	30.70	1"	>1.96	>47.24	180.00	50.00	5.8	150.0	135.0
VT8EF250P16	DN250	10.74	71.25	35.03	20.00	32.67	38.58	2"	>1.96	>62.99	288.00	80.00	6.9	300.0	252.0
VT8EF300P16	DN300	12.75	82.87	39.56	24.01	38.18	44.68	2"	>1.96	>74.80	405.00	112.50	7.7	500.0	325.0
VT8EF350P16	DN350	-	87.79	47.24	27.95	40.94	-	-	-	-	556.00	-	-	-	556.00
VT8EF400P16	DN400	-	91.73	55.90	31.88	42.91	-	-	-	-	765.00	-	-	-	765.00
VT8EF450P16	DN450	-	95.66	59.84	35.82	44.88	-	-	-	-	960.00	-	-	-	960.00
VT8EF500P16	DN500	-	101.57	63.77	40.15	47.83	-	-	-	-	1182.00	-	-	-	1182.00
VT8EF600P16	DN600	-	-	-	48.03	-	-	-	-	-	-	-	-	-	-
VT8EF700P16	DN700	-	-	-	55.90	-	-	-	-	-	-	-	-	-	-
VT8EF800P16	DN800	-	-	-	63.77	-	-	-	-	-	-	-	-	-	-
VT8EF900P16	DN900	-	-	-	71.65	-	-	-	-	-	-	-	-	-	-
VT8EF1000P16	DN1000	-	-	-	79.52	-	-	-	-	-	-	-	-	-	-

Remarks: DN350~DN1000 need to be designed according to the customer's site, different pressure and temperature products (inspection hole is optional for large diameter products), and can be customized by consulting the factory.

VT9 Deaerator and dirt separator

SPCombi BEST

VT9 The spiral micro-bubble exhaust precision decontamination device (horizontal installation) is a general-purpose equipment that combines the functions of separating and discharging $\geq 10\mu\text{m}$ microbubbles and micron-sized $\geq 5\mu\text{m}$ impurities in the water circulation system. It is usually used in boiler heating, central heating in winter, central cooling in summer, and water circulation air conditioning and other systems for efficient and energy-saving operation.

The product is composed of the top leak-proof liquid quick automatic exhaust valve, T2 copper spiral separation net, steel welded valve body (upper gas storage chamber, middle microbubble decomposition, medium impurity separation and bottom sewage storage chamber) and sewage valve combination.

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Internal T2
Copper spiral mesh



(DN50~DN300)

1. According to Henry's law, the higher the temperature, the easier it is for the gas in water to decompose. In principle, the spiral microbubble separation exhaust valve should be installed at the hottest part of the system.
2. Spiral microbubble separation exhaust valve is not suitable for steam medium.

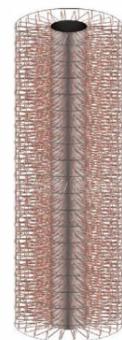
Features:

1. Uninterrupted decomposition of ≥ 10 micron microbubbles and automatic exhaust of more than 90%;
2. Uninterrupted interception of impurities $\geq 5\mu\text{m}$, the decontamination effect is over 90% and the pressure loss is extremely low;
3. When the system is running normally, it can quickly discharge sewage without stopping;
4. Reduce the risk of system downtime due to long-term operation;
5. The product does not need to install a blocking valve and bypass;
6. Saves cost and space compared to two separate products

! A coarse filter valve needs to be installed at the front end of the equipment to avoid damage to the spiral separation net

Boom list:

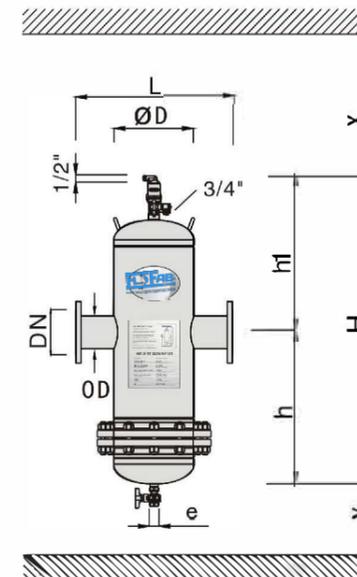
- Vent: Brass exhaust valve assembly
- Body: Carbon steel welded tank
- Strainer: T2 Copper spiral mesh
- Drain valve: Brass ball valve
- Flanged Ball Valve (Ductile Iron/Cast Steel)



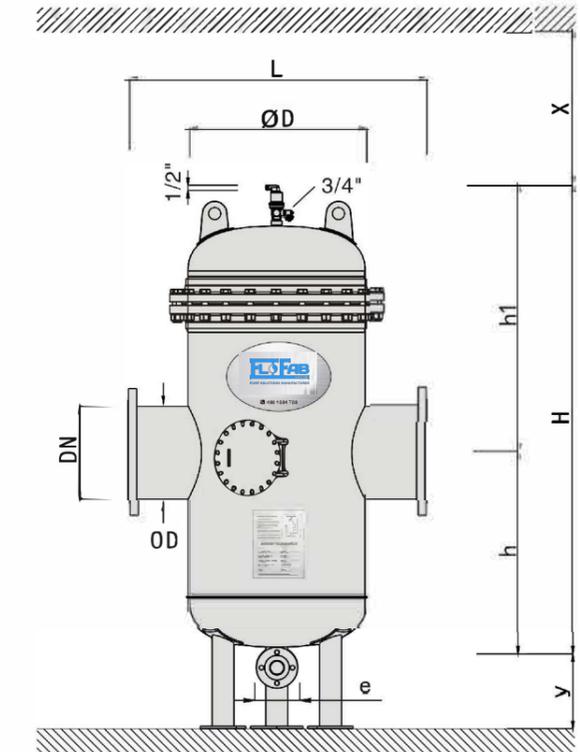
Internal T2
Copper spiral mesh



(DN350~DN1000)



DN50-DN300



DN350-DN1000

型号说明: Decontamination Horizontal Flange Caliber Pressure Pressure Value
VT 9 EF XX P XX

Technical parameter: Applicable media: water, water/ethylene glycol(1:1)
Working pressure: 16bar Operating temperature: -20°C~110°C Average flow velocity: 1.5m/s

REGULAR FLOW RATE PRODUCTS	MODEL	CONNECTION CALIBER	OD	H	L	OD	h	h1	e	X	Y	Average Flow rate	Average Flow velocity	Pressure drop at average velocity	Volume	Weight
			[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[m ³ /h]	[L/S]	[kPa]	[m ³]	[kg]
VT9EF50P16	DN50	2.37	24.80	13.77	11.22	10.43	14.37	14.37	1"	>1.96	>20.07	12.50	3.47	3.0	7.0	35.0
VT9EF65P16	DN65	2.99	24.80	13.77	11.22	10.43	14.37	14.37	1"	>1.96	>20.07	20.00	5.56	2.7	7.0	36.0
VT9EF80P16	DN80	3.50	30.90	18.50	13.38	13.58	17.32	17.32	1"	>1.96	>25.98	27.00	7.50	2.9	25.0	58.0
VT9EF100P16	DN100	4.50	30.90	18.70	13.38	13.58	17.32	17.32	1"	>1.96	>25.98	47.00	13.06	3.7	25.0	60.0
VT9EF125P16	DN125	5.50	40.74	25.00	18.11	18.70	22.04	22.04	1"	>1.96	>36.22	72.00	20.00	4.2	75.0	123.0
VT9EF150P16	DN150	6.62	40.74	25.00	18.11	18.70	22.04	22.04	1"	>1.96	>36.22	108.00	30.00	4.9	75.0	126.0
VT9EF200P16	DN200	8.62	51.77	30.51	22.83	24.21	27.55	27.55	1"	>1.96	>47.24	180.00	50.00	5.8	150.0	225.0
VT9EF250P16	DN250	10.74	68.11	35.03	28.14	32.67	35.43	35.43	2"	>1.96	>62.99	288.00	80.00	6.9	300.0	364.0
VT9EF300P16	DN300	12.75	79.72	39.56	33.07	38.18	41.53	41.53	2"	>1.96	>74.80	405.00	112.50	7.7	500.0	563.0
VT9EF350P16	DN350	-	-	-	-	-	-	-	-	-	-	410.00	113.89	-	-	-
VT9EF400P16	DN400	-	-	-	-	-	-	-	-	-	-	558.57	155.16	-	-	-
VT9EF450P16	DN450	-	-	-	-	-	-	-	-	-	-	712.58	197.94	-	-	-
VT9EF500P16	DN500	-	-	-	-	-	-	-	-	-	-	912.64	253.51	-	-	-
VT9EF600P16	DN600	-	-	-	-	-	-	-	-	-	-	1587.9	441.03	-	-	-
VT9EF700P16	DN700	-	-	-	-	-	-	-	-	-	-	2077.11	576.98	-	-	-
VT9EF800P16	DN800	-	-	-	-	-	-	-	-	-	-	2712.96	753.60	-	-	-
VT9EF900P16	DN900	-	-	-	-	-	-	-	-	-	-	3418.35	949.54	-	-	-
VT9EF1000P16	DN1000	-	-	-	-	-	-	-	-	-	-	4222.06	1172.79	-	-	-

Remarks: DN350~DN 1000 need to be designed according to the customer's site, different pressure and temperature products (inspection hole is optional for large diameter products), and can be customized by consulting the factory.