

ST-10

Y type

Basket

Duplex

Straight

Stainless steel

Nylon

Carbon steel

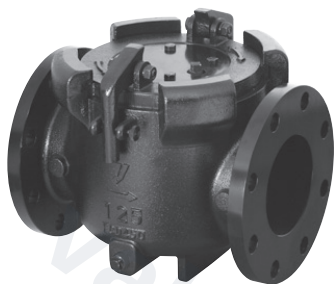
Easy plug

Pipe end core

One-touch

With fine mesh

Davit



With davit

■Features

1. It can replace the screen without using the tool.
2. Significantly compact body set up a screen in the flow coaxial with the direction of the fluid.
3. Excellent durability since it is subjected to electrodeposition coating.

■Specifications

Model		ST-10
Nominal size		125-250A *1
Application		Cold and hot water, Oil (Kerosene, Heavy oils A and B), Other non-dangerous fluids
Maximum working pressure		1.0 MPa
maximum temperature		80°C
Connection		JIS 10K FF flanged
Installation posture		Horizontal or vertical installation *2
Material	Body	Ductile cast iron
	Screen	Stainless steel
Screen	Perforation	φ 8-10P
	Mesh	Standard 60 mesh *3
Rust proof		Electrodeposition coating

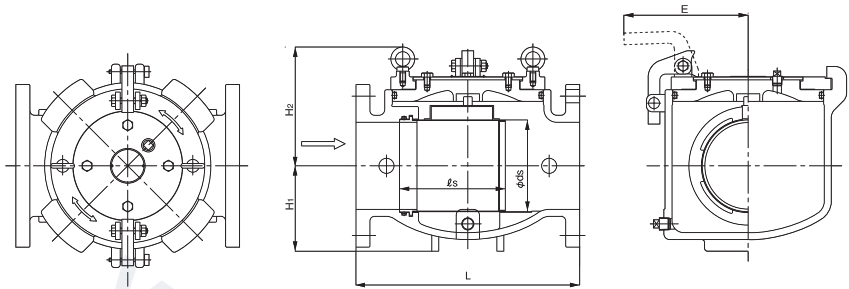
*1 Available with davit for 250A.

*2 If fluid flows from bottom to top, it is necessary to install devices such as blow valve. See details in “Piping Example” on P. 4-49.

*3 Available with 20, 40, 80 and 100 mesh.

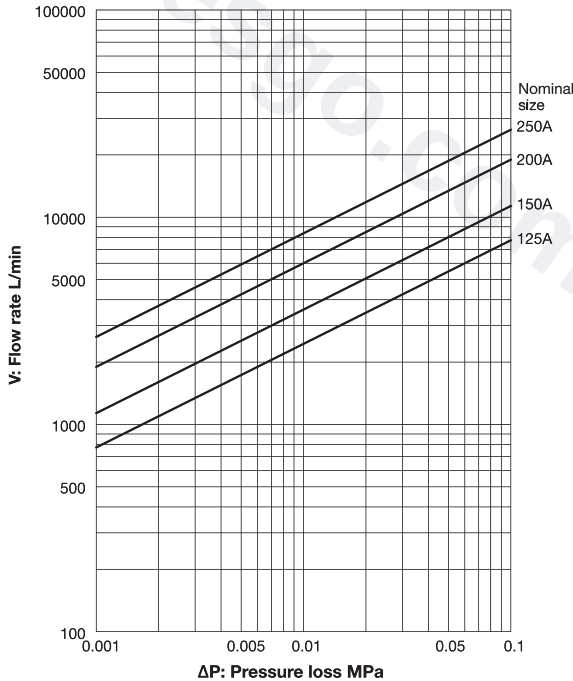
■Dimensions (mm) and Weights (kg)

Nominal size	L	H ₁	H ₂	E	Screen		Plug	Plug	Weight
					ds	Ls			
125A	335	132	180	194	133	154.5	R 1/2	R 3/8	42
150A	385	147	205	214	158	182	R 1/2	R 3/8	60
200A	470	175	240	249	208	228	R 1/2	R 3/8	100
250A	550	215	285	285	258	278	R 1/2	R 3/8	156



■ST-10 Pressure Loss Chart (For Water)

· Screen: Perforation = ϕ 8-10P, Mesh = 60 mesh



Please refer to P. 12 for the information about how to look the chart, and calculating example.

Straight Strainer

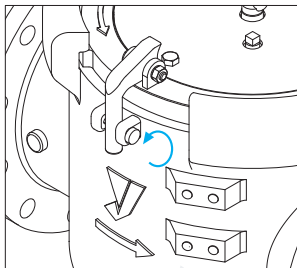
How to Detach, Clean the Screen

⚠ Warning Completely discharge the pressure inside of the product, piping and equipment prior to detaching the screen.

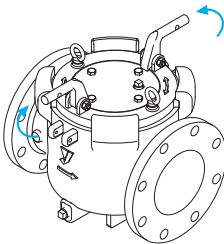
4

Strainer

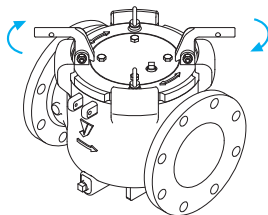
(1) Remove the thumbscrew.



(2) Lift the handles.

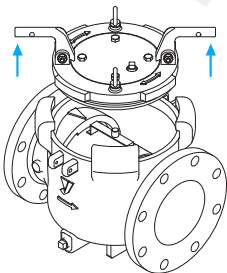


(3) Rotate the stopper ring by 45°. *1

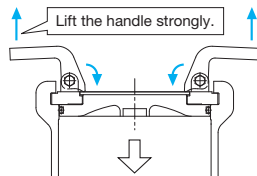
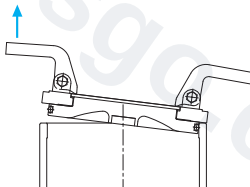


*1 If the stopper ring do not turn smoothly, lift the handle strongly. The cover is pushed down and the stopper ring can be turned smoothly.

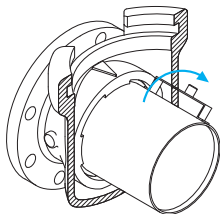
(4) Detach the cover. *2



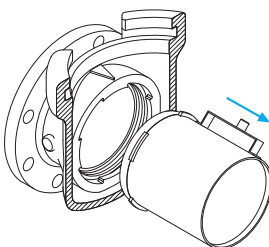
*2 To remove the cover, do not lift the both handles at the same time but lift them one by one. This will reduce the resistance of the O-ring and facilitate to remove the cover.



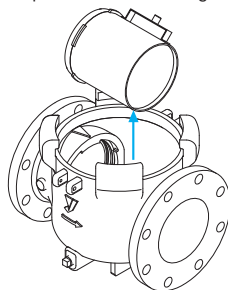
(5) Rotate the screen by 45°



(6) Pull out the screen.

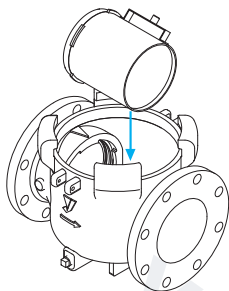


(7) Detach the screen.
Clean the screen using compressed air or a detergent.

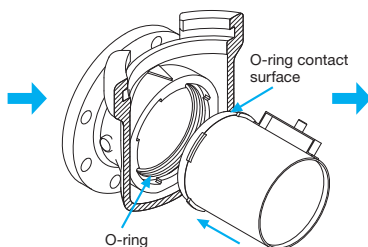


Assembly

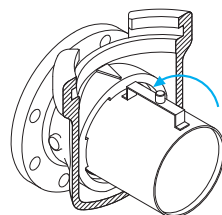
- (1) Put the screen into the body.



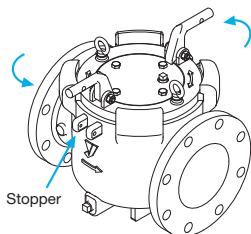
- (2) Insert the tabs of the screen between the grooves on the body. At this time, apply grease to the O-ring or its contact surface.



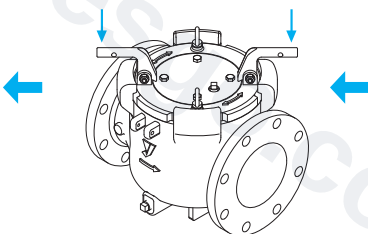
- (3) Rotate the screen by 45°. *3



- (5) Rotate the stopper ring until each handle reaches the stopper.

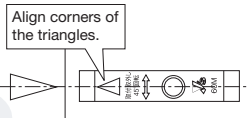


- (4) Install the cover to the body. Push in the cover strongly until the stopper ring tab comes in contact with the body. At this time, apply grease to the O-ring or its contact surface.

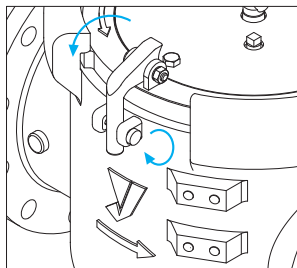


⚠ Caution

*3 Rotate the screen until the top (left) corner of the triangle embossed on the body is aligned with the top (right) corner of the triangle printed on the screen handle. If these triangles are not aligned with each other, the screen may come off during use.



- (6) Lower each of the handles between the stopper and install the thumbscrew. *4

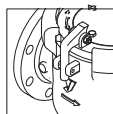


⚠ Warning

*4 Before using the product, make sure to lower each of the handles between the stopper and install the thumbscrew. It is very dangerous to use the product in the following conditions. Failure to follow this notice may cause the cover to come off.

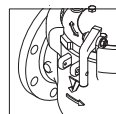
WRONG

The handle is not engaged with the stopper by the thumbscrew.



WRONG

The handle is not between the stopper.



■Piping Example

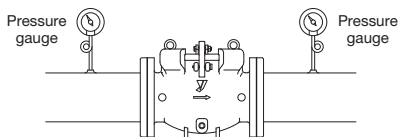


Fig. 1

1. Clogging condition inside the product can be known from the differential pressure measured when pressure gauges are installed before and after the product (see Fig. 1).
2. If fluid flows from bottom to top, install a blow valve in order to remove scale accumulated at the bottom of riser pipe (see Fig. 2).

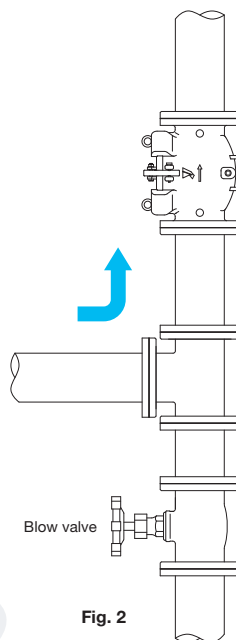
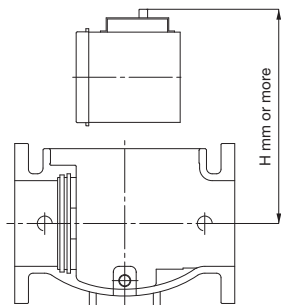


Fig. 2

■Precaution for Installation



Nominal size	H
125A	330
150A	380
200A	470
250A	560