

Handling Manual for Strainer

Installation, usage and maintenance

- The steps are necessary before setting up the strainer:
 1. Verify carefully in order to ensure that the usage of strainer matches with its performance specification.
 2. Have to clear up inner parts of the strainer.
- The strainer is applied by one direction and the flow direction of medium is showed by arrowhead on body. Please pay attention to when you set up it.
- Please make sure the position of installation should be convenient for usage and maintenance.
- The angle of installation
 1. Hereby to confirm the installation of Y-type strainer is the best to be drainage plug side right downward (as per Figure 1). It will be convenience for the cleaning work in future.

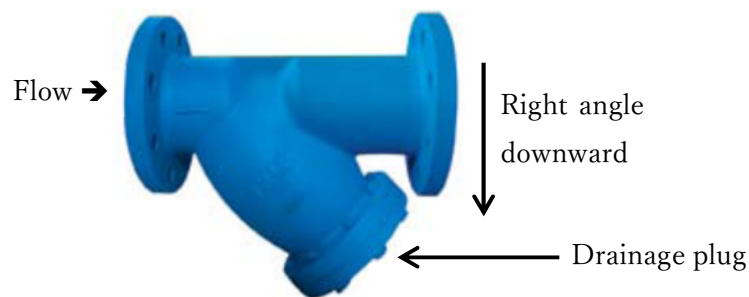


Figure 1

2. If there are any difficulties of installation position where drainage plug side cannot right downward, you may adjust a small degree of deviation (θ°). You may counter clockwise or clockwise not more than 30 degree from the right angle downward (as per Figure 2). However, this type of installation will create the inconvenience on the cleaning work. But, it will not affect the function of the strainer.

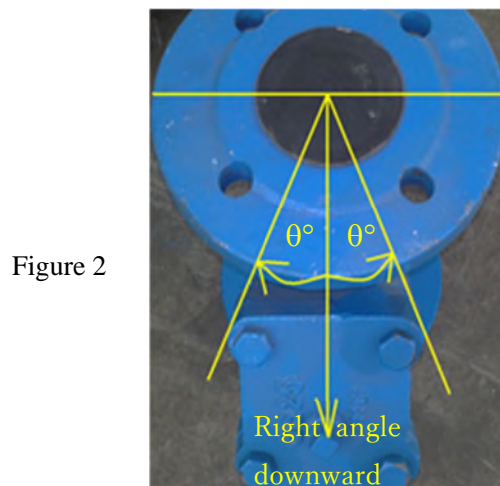


Figure 2

- Bolts connected with flange must be screwed alternately, diagonally and evenly when the strainer is connected with pipe. See figure 3.

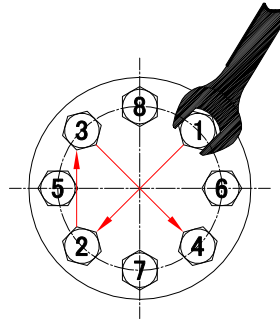


Figure 3 Order for tightening bolts

- For the strainer with large size and heavy weight, the support is needed in order to reduce load to avoid pipe's bend. See figure 4.

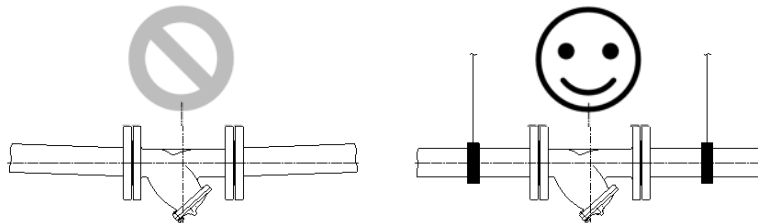


Figure 4 Image of pipe support

- On the process of the usage of strainer, workers should check periodically and clear up timely sundries and dirty substances in screen for avoiding its damage.
- Possible trouble, cause and removing method

Possible trouble	Cause	Measure
Leak in body and cover	<ol style="list-style-type: none"> 1. Bolts connected flanges are not tightened or not screwed evenly 2. Sealing gasket is damaged 	<ol style="list-style-type: none"> 1. Screwing the bolts with proper tightening torque 2. Change sealing gasket
Leak in the connection between strainer and pipe	<ol style="list-style-type: none"> 1. Bolts used for connection is not screwed evenly and tightly. 2. Gasket between strainers and flanges is aging 	<ol style="list-style-type: none"> 1. Screwing the bolts evenly and tightly, 2. Change gasket between strainers and flanges Note 1
Not good quality	Screen is damaged	Change screen

Note 1: The proper tightening torque is different from the gasket type. Please refer to the catalog of the gasket to be used.

- Covers in some sizes have direction for assembly. To avoid stress of the parts, please match the direction to the body, the wrong direction can cause large stress to related parts. See figure 5.

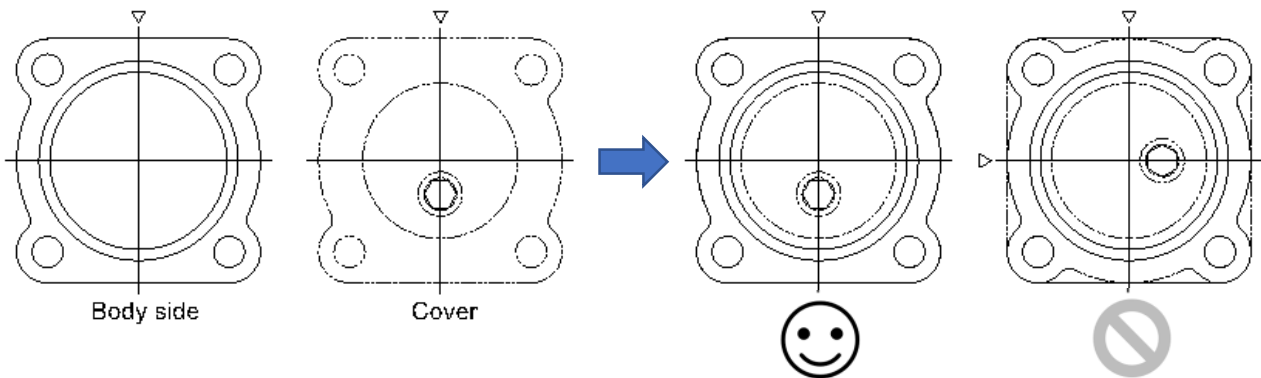


Figure 5 Assembly direction of the cover

- Cover bolts connected with body flange must be screwed alternately, diagonally and evenly. See figure 3 same as connecting pipe flange. Since the sealing material is rubber gasket, it does not need large tightening torques. Please refer to the values in Table 1.

Table 1 **Tightening torques for cover bolts** (As reference)

Size	50A	65A	80A	100A	125A	150A	200A	250A	300A
Bolt	M10x4	M10x4	M10x4	M12x4	M12x6	M12x6	M16x10	M16x10	M16x12
Torque (Nm)	1.4	1.0	1.8	2.8	2.7	3.3	3.6	5.0	5.8



When disassembling the strainer, relieve the inside pressure so that the pressure in the strainer is "0MPa". If there is pressure inside, it may cause personal injury.