

Installation, Operation & Maintenance Manual Model MTB, MTC, MTP Temporary Strainers

INTRODUCTION

The Model MTB, MTC, MTP Strainer is a device temporarily installed in a pipeline to remove sediment and debris from fluids. Straining is accomplished by directing the fluid through sized openings in the strainer. Once sediment and debris is collected in the strainer, fluid flow is interrupted while the strainer is removed for cleaning or replacement.

NOTE: The Model MTB, MTC, MTP Strainer is a “Temporary” Strainer to be used for piping start-up applications only. DO NOT permanently install in the process piping.

RECEIVING, HANDLING, AND INSPECTION

Unpack the strainer. Inspect for any damage occurring during transit. Report damage to carrier. See “Storage Instructions” if the strainer is not installed immediately. Remove any preservatives with solvent-dampened cloths. Exercise care when using solvent and follow solvent manufacturer’s instructions. Verify that the correct size and flange rating for the application is marked on the strainer. Inspect strainer by checking for and removing any foreign or loose material that could be carried down stream when fluid is introduced into the Strainer.

STORAGE

Replace any protective wrap that was removed during receiving, handling and inspection, and store the strainer indoors in a clean, dry environment.

INSTALLATION



CAUTION: Before installation, review the application and chemical compatibility of the process fluid to the materials of construction of the strainer. Verify that the correct size and flange rating for the application is marked on the strainer.

1. Remove protective wraps etc. before installing the strainer into operation. If the strainer application requires a mesh liner, it is important to note the position of this mesh liner. As specified at time of order the mesh liner is on the “inside” or “outside” of the strainer.
2. Simply install the strainer into the pipeline and situate it between the pipe flanges. Insure that the mesh lining, if provided, is “facing” the flow. The strainer is designed to be self-centring between the pipe flanges and bolting. Be sure to install the necessary gaskets and bolting. Torque bolts properly by using standard piping practices. See Figure 1.

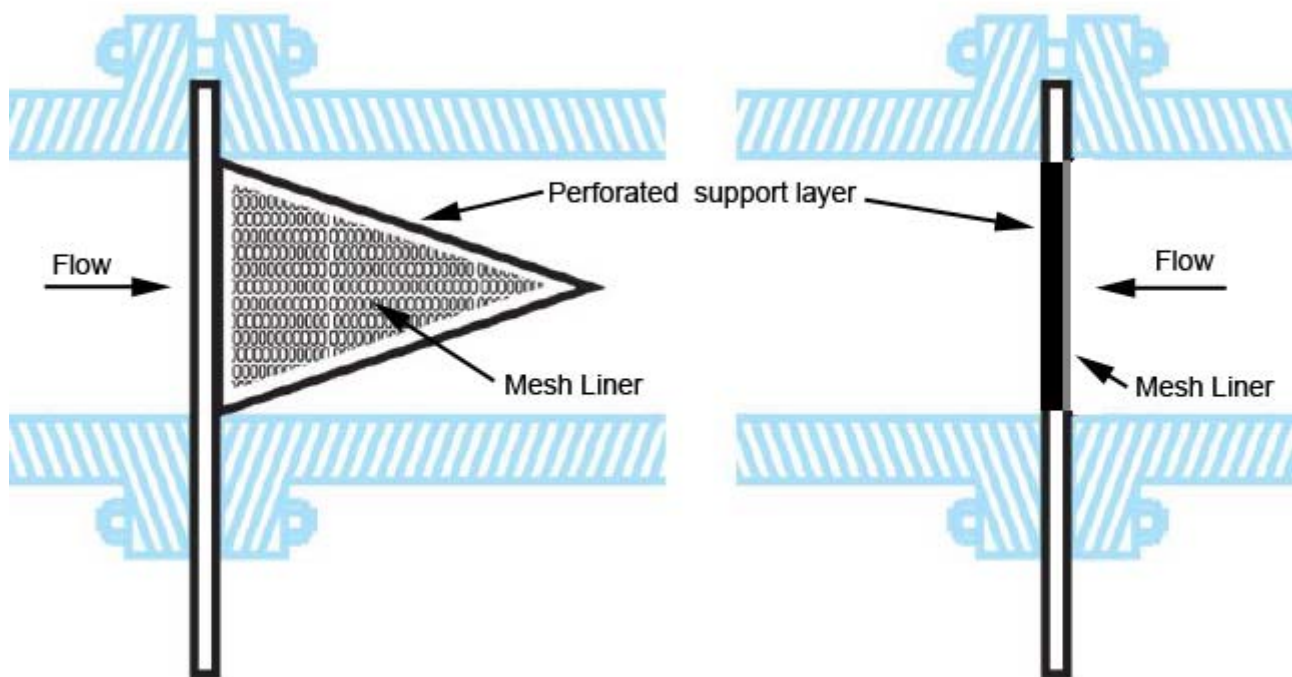


Figure 1

START-UP



CAUTION: To protect the operator when draining and venting, the fluid must be piped to a safe area. This is a requirement for all fluids and for water with a temperature above 50°C. The operator should wear appropriate protective equipment (goggles, gloves, vests, clothing etc.) consistent with the process fluid for strainer operation and servicing.

Expel air from pipeline where the strainer is installed and slowly allow fluid to enter the pipeline where the strainer is installed. Then close any open pipeline vents after air is expelled.



CAUTION: Start system GRADUALLY. This eliminates sudden shock to the strainer and other equipment in the line.

SHUT DOWN PERIODS

Slowly close the pipeline valves upstream and downstream from the strainer. Make sure these valves are tightly closed. Then relieve fluid pressure from the pipeline where the strainer is installed. The pipeline must be drained and internal pressure relieved prior to removing the strainer. Proceed to remove the strainer. See strainer removal instruction below.

WHEN TO REMOVE THE STRAINER

A differential pressure of 5 to 10 psi across the strainer indicates that it is full of debris and needs to be removed.



CAUTION: To prevent strainer damage, DO NOT permit differential pressure across the strainer to exceed 20 psi.

STRAINER REMOVAL

Follow the Shut Down procedures above. When the internal pressure of the pipeline where the strainer is installed is relieved and fluid drained, loosen the pipe flange bolting and remove the debris-laden strainer.

WARRANTY

All products manufactured by Seller are warranted against defects in material and workmanship under normal use and service for which such products were designed for a period of six (6) months after shipment from our factory or six (6) months after start-up, whichever comes first.

OUR SOLE OBLIGATION UNDER THIS WARRANTY IS TO REPAIR OR REPLACE, AT OUR OPTION, ANY PRODUCT OR ANY PART OR PARTS THEREOF FOUND TO BE DEFECTIVE. SELLER MAKES NO OTHER REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. WE SHALL NOT BE LIABLE FOR CARTAGE, LABOR, CONSEQUENTIAL DAMAGES OR CONTINGENT LIABILITIES. OUR MAXIMUM LIABILITY SHALL NOT IN ANY EVENT EXCEED THE CONTRACT PRICE FOR THE PRODUCT.