



Model LPDT (Low Pressure Drop) Cast Stainless Steel Y Strainer

OPERATION, INSTALLATION AND MAINTENANCE
INSTRUCTIONS

General: The LPDT cast stainless steel, threaded strainer is unique in its geometry but not in its use or application.

LPDs are typically used to capture and protect downstream equipment from harmful particulate (dirt). A screen within the strainer body captures the dirt. Strainers should be specified to match the temperatures and pressures of the system.

Application:

1. The LPDT strainer can be used in any fluid application, compatible with the materials of construction.
2. The strainer can be installed either horizontally or vertically with the flow arrow pointing in the direction of flow.
3. Pressure and temperature ratings listed on the submittal drawing must not be exceeded.

Installation:

1. Inspect strainer for shipping damage.
2. All thread ends must be square to one another.
3. Plumber's tape or paste must be used on the NPT ends to create a proper seal
4. Flow arrow must point in the direction of flow.
5. Pipe must be tightened into thread ends according to ASME B1.20.1

Testing: The LPD Strainer may be one-time pressure tested to 1-1/2 times the product's maximum operating pressure. Do not exceed the maximum rated pressure or temperature during operation.

Operation: While the system is running the strainer constantly captures dirt and debris. As this debris accumulates the flow thru the strainer is being constricted and the pressure drop caused by this constriction will continue to increase. There are two methods to remove debris from the strainer. One is to shut down the system, isolate and remove pressure from the strainer, then remove the screen by removing the blow off cover. The Blow Down procedure can be used while the strainer and system are in operation.

Blow Down Procedure: (Assuming a blow down valve has been installed in the blow down port, prior to system operation. See submittal drawing.)

1. Attach a hose or have a bucket near the discharge end of the blow down valve.
2. Take necessary precautions to prevent harm if the media is hot or corrosive or under significant pressure.
3. While system is under pressure, slowly open the blow down valve and allow debris to be evacuated.
4. If the pressure drop does not return to the expected clean screen rating, the debris may be sticking to the screen, and complete disassembly may be required.





**Model LPDT (Low Pressure Drop) Cast
Stainless Steel Y Strainer**
OPERATION, INSTALLATION AND MAINTENANCE
INSTRUCTIONS

Maintenance:

1. No maintenance is required other than periodically blowing down the screen. Per the operating procedures above.
2. If after blowing down the strainer the differential pressure remains high, removing the screen may be necessary.
3. To remove the screen, isolate the strainer from the system pressure and flow. Open the blow down valve to confirm pressure has been released. Unscrew the blow off cover. Remove, clean and reinsert the screen. Confirm that O-ring gasket is usable and in place. Tighten cover and return strainer to service.

