

BASKET STRAINERS

INSTALLATION & MAINTENANCE INSTRUCTIONS

INSTALLATION

Before installing the basket strainer, ensure the pressure rating, end connections, and material are suitable for the system. The machined surfaces should be free of defects, and the inside of the strainer free of foreign objects. The piping should be straight, and not at an offset or rotated.

Strainers should be installed with the arrow on the strainer body pointing in the direction of flow.

Basket strainers should be installed in horizontal pipelines only, and the screen chamber must be pointing downward. Basket strainers are most commonly used for liquid service applications.

If flanged, ensure the flanges of the mating flanges on the piping are aligned with the strainer flanges, so that no undue stress is put on the strainer or pipe when tightening the bolts. Tighten the bolts gradually in a crossing pattern until all bolts are tight. If threaded, use appropriate sealant on the threads.

The system can be slowly pressurized while checking for any leakage around all connections. Depressurize the system and start the installation procedure over if there is any leakage.

A differential pressure gauge installed across the inlet and outlet of the strainer is helpful to indicate pressure loss due to clogging, which can indicate when cleaning is required. Normally when the differential pressure reaches 5-10psi, the screen should be cleaned.

MAINTENANCE

 **WARNING:** Before loosening of any bushing, cap, plug, or cover on a strainer, extreme caution should be exercised to ensure there is zero pounds pressure in the system. Only after the system has been depressurized should the strainer be drained for service. **SERVICE ON A PRESSURIZED STRAINER CAN CAUSE SERIOUS INJURY OR PROPERTY DAMAGE.**

Basket strainer with a closed bottom basket can be cleaned by removing the cap or cover and pulling out the basket screen for cleaning. If the strainer screen is bottomless, the blow-off plug can be removed which allows it to be drained and clean as a Y-strainer.

After carefully removing a screen, it should be brushed and/or soaked in a cleaning solution and/or cleaned using a brush. Trapped material in the screen should not be allowed to harden, and a regular cleaning schedule will avoid clogged screens. Extra screens can be useful in keeping the system operating during the cleaning process.
