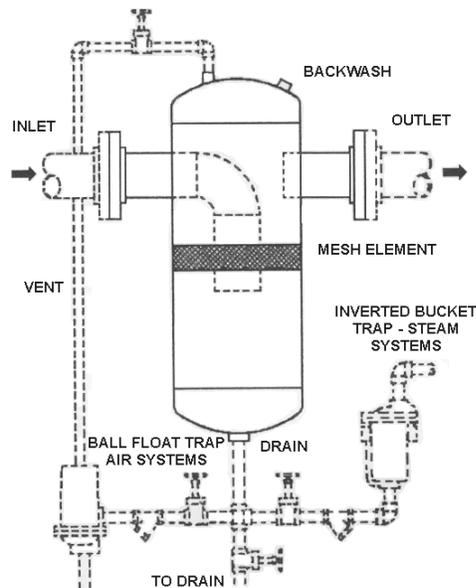


INSTALLATION and MAINTENANCE INSTRUCTIONS “MTI” MIST SEPARATORS

The Penn Mist Separator works by using a mesh element to collect droplets until they are large enough to fall off into the bottom of the vessel. The low velocity allows these droplets to fall free of the flowing gas.

Locate the nozzle connections stamped or labeled “I” for inlet or “O” for outlet. Install the separator in an air, gas, or steam line so that the gas first enters the inlet and then comes out of the outlet keeping the body in a vertical position. The inlet can be visually checked to see if it turns down through the element. The outlet is open to the vessel interior.

The drain through which the entrainment is removed is located on the bottom of the separator. The entrainment should be drained from the unit as quickly as it is separated. This drain should be suitably trapped on pressurized systems so that the liquids are removed but the flowing gas remains in the system. An optional air vent can be supplied on the separator when trapping requires back venting. The trap should be sized using a 2-3 times safety factor and be located below the separator drain as shown. This trap can be supplied by Penn as an optional item. Non pressurized or gravity systems should limit drain piping back pressure and be located to provide enough water head to allow complete drainage of the unit.



A Backwash connection is provided on all Mist Separators because mesh fouling can occur. By simply flushing the pad with water should provide sufficient cleaning. An increase in pressure drop through the unit is an indication that the element has become fouled. As an option body flanges or a manway can be provided for pad access, replacement, and removal.

With exception to an optional removable element, the Mist Separator is an integrally welded vessel with no removable parts which require no maintenance other than keeping the exterior clean and free of rust.



Warning: Mist Separators can contain high pressures and hot condensate. Caution should be used when working around these vessels.



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