

Installation, Operation & Maintenance Manual

Vortex Tangential Air
Separator



IMPORTANT! - READ ALL INSTRUCTIONS IN THIS MANUAL
BEFORE OPERATING OR SERVICING A PUMP.

→INSTALLATION

Prior to installation, the strainers mating flanges should be inspected to assure gasket surfaces are free of defects.

- Install FLO FAB air separator in the system between expansion tanks and pumps.
- Install expansion tank as close to the air separator as possible with any horizontal piping pitching up to tank.
- If a shut-off valve is installed in the line, it must be fully open when the system is in operation.
- A connection for a FLO FAB air release valve is at the top or the air separator.

→ATTENTION

The air separator should not be mounted between flanges having defective gasket surfaces. Piping should be checked for proper alignment. The distance between pipe flanges should be checked to assure sufficient clearance for the installation of the air separator. The air separator must be visually centred with respect to the flange faces. Flange bolting should be tightened gradually in a crisscross manner. Bolting should then be tightened sufficiently to prevent loosening of the joint or gaskets.

→PRESSURE DROP CHARTS

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→MAINTENANCE

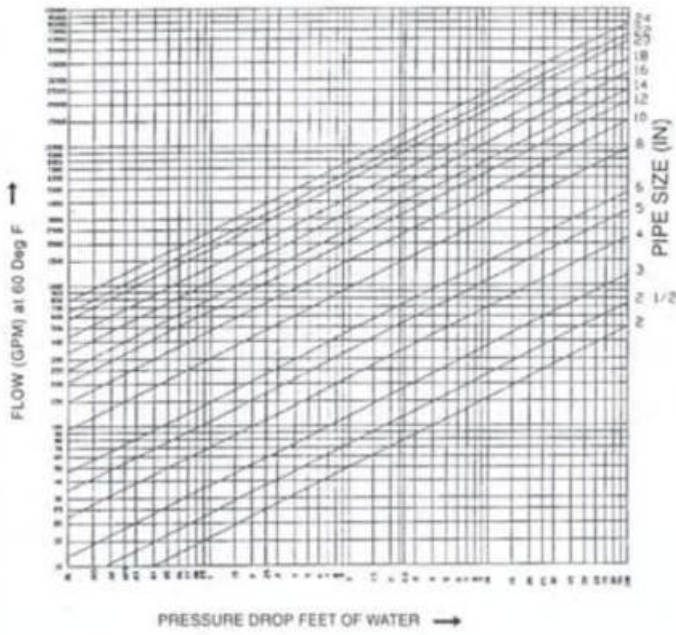
The air separator is fabricated that maintenance is required when a strainer is supplied. It is recommended that the installer remove and clean the strainer after 24 hours of operation and after 30 days operation. Also periodically open the blowdown valve to purge air separator of foreign particles.

→INITIAL START-UP

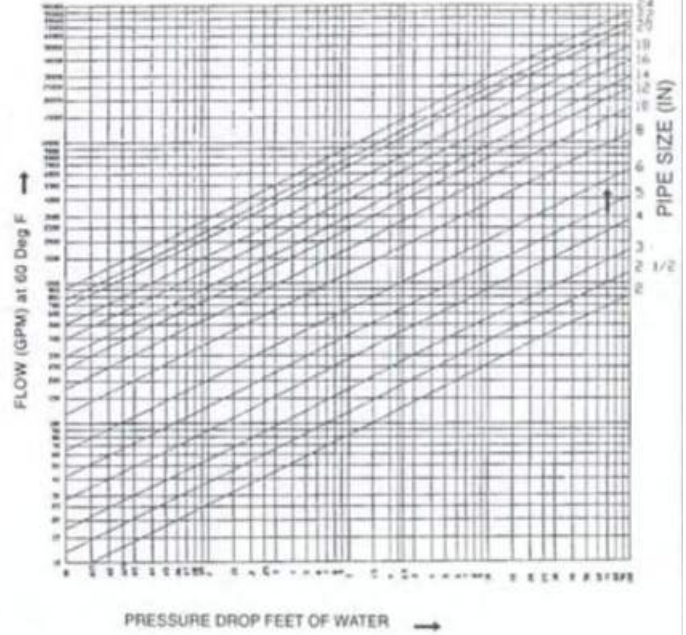
When system is first filled, release air from heating units and high points if necessary for quick filling. Any entrained air is separated continuously there after, as water is pumped through the air separator.

→ PRESSURE DROP CHARTS

Air Separator with Strainer

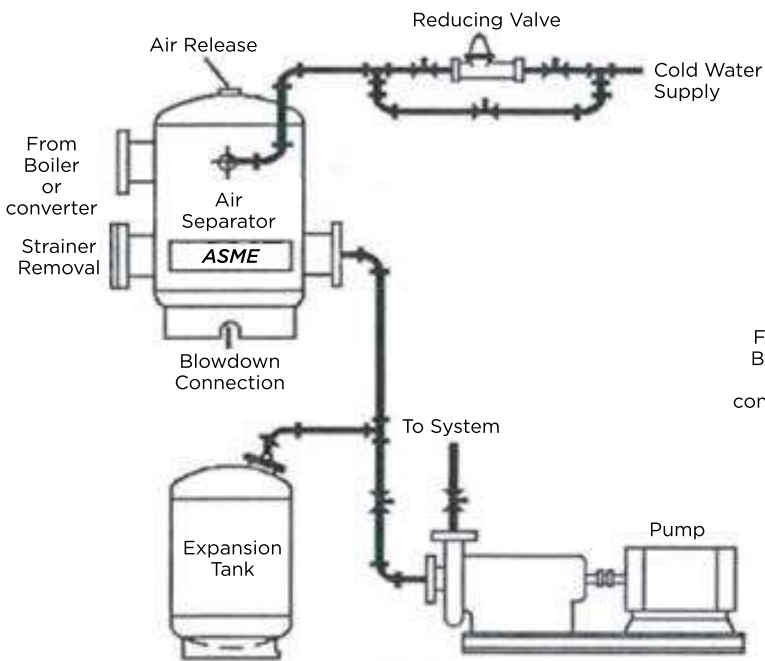


Air Separator without Strainer



→ TYPICAL PIPING DETAILS

Preferred



Traditional

