



# AIR & DIRT SEPARATORS

## TYPICAL SPECIFICATIONS

### ADS Series Air & Dirt Separators

Furnish and install, as shown on plans, a Model \_\_\_\_\_ Air & Dirt Separator. The unit shall have \_\_\_\_\_ (NPT/flanged/grooved) inlet and outlet connections. A 2" NPT vent connection shall be fitted to the top of the vessel to enable installation of an air vent, and a 2" NPT blowdown connection shall be fitted to the bottom to enable draining and purging of debris. Separator shall have all steel body construction.

The unit shall have a mesh filter assembly consisting of multiple concentric stainless steel screens with the capability of separating dirt particles as small as 5 microns. The mesh shall be of the welded, overlapping type to promote microbubble adhesion and minimize readmission into the flow stream. The core of the filter assembly shall include a diverter tube to reduce fluid velocity and enhance mesh contact. The separator shall be capable of removing 98% of free air in one pass.

If specified to include a Magnetic Separator (option M), the unit shall include a nominal 1" diameter, rare-earth magnet rod capable of attracting and purging ferrous particles, including magnetite. A blowdown tee fitting for the purging of debris shall be provided at the bottom of the unit. The 2" NPT horizontal discharge shall be compatible with manual or automatic valve types. The magnetic separator must be vertical and centrally located to maximize ferrous particle capture. Offset and angled magnets shall not be allowed. The assembly shall include a non-ferrous dry well and removable magnet rod with a plastic handle to facilitate safe handling in an active system.

The separator must be designed, constructed, and stamped for (125) (150) (\_\_\_\_\_) psig at 350°F (177°C) in accordance with section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code, and registered with the National Board of Boiler and Pressure Vessel Inspectors. The separator shall include a base coat of red oxide primer.

A manufacturers' Data Report for Pressure Vessels, Form U-1 as required by the provisions of the ASME Boiler and Pressure Vessel Code shall be furnished for each separator upon request.



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