

ENGINEERING STANDARDS

Rosedale Products, Inc.
3730 West Liberty Road
Ann Arbor, MI 48103

IOM
7_5_9 Separator.wpd
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Issue Date: 15SEP98
Revision: 1
Revision Date: February 16, 2000

Specification No.
7.5.9
PAGE: 1 of 4

INSTALLATION, OPERATION, & MAINTENANCE MANUAL

INSTALLATION, OPERATION AND MAINTENANCE MANUAL

ROSEDALE PRODUCTS, INC.



**LIQUID / SOLIDS
STANDARD SEPARATORS**

150 PSIG RATED @ 400°F.

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General Description

The simplistic design of your Rosedale Products Liquid/Solids Separator facilitates easy installation, operation, and maintenance. The standard Separator configuration consists of a tangential inlet, a separation chamber, a collection or (calm) chamber, an outlet, and a purge drain. There are no moving parts on the Separators (with the exception of any purge drain hardware), no cartridges, or filter baskets/bags. The purge drain can be either manual or automatic, depending on what you have specified. See *figure 1* for a graphical description of the standard Separator configuration.

I. Installation

- ◆ Please remove all shipping and crating materials carefully. Be sure to remove the plugs from the inlet and outlet openings. Dispose of all crating materials safely.
- ◆ Adequate Support is necessary to accommodate the Separator unit's weight with liquid. Although some of the smaller Separator units can be mounted "In-line" and supported by the inlet and outlet piping (provided the piping is adequately supported), it is recommended that the larger models be sufficiently anchored to a solid support structure. Legs with holes for anchor bolts are available in most instances.
- ◆ Each Separator is capable of having several variations of piping arrangements based upon the inlet/outlet style of your Separator unit. The inlet service line should be connected to the inlet flange or NPT coupling tangentially located on the side of the Separator unit near the top.

Important: To minimize turbulence, pipe connections to the inlet and outlet should be a straight run of at least 5 pipe diameters.

- ◆ The outlet service line should be connected to the outlet flange or NPT coupling, located directly on top of the Separator unit.
- ◆ The purge drain can have any of several configurations depending on what you have specified. This connection should also be completed before operation.

Important: All purge hardware should be installed directly after the purge coupling or flange prior to any elbows or changes in direction of the purge piping to avoid undesirable build up of separated solids. "Up-hill" purging should also be avoided.

- ◆ Auxiliary ports are optional, but can be specified for the use of differential pressure gauges, sampling ports, etc.. If your System is pressurized, the use of pressure gauges at the inlet & outlet to monitor pressure loss and proper system flow is recommended. If you have specified your Separator unit to include auxiliary ports, these connections should also be properly completed before operation.
- ◆ Some installations require electrical grounding of all equipment, be sure to provide adequate grounding where necessary.
- ◆ After completing installation be sure to double check connections for integrity. Your Liquid/Solids Separator unit has been factory pressure tested leak free, therefore, any seepage problems usually occur from improper installation connections.

Your Liquid/Solids Separator is now ready for operation!

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II. Operation

Separator System Start-Up Procedure:

Prior to turning on the flow to the inlet service, please make the following checks:

1. Check to insure that all piping connections have been made and tightened sufficiently to prevent leaking.
2. Check to insure that the proper purge hardware has been installed and is closed.

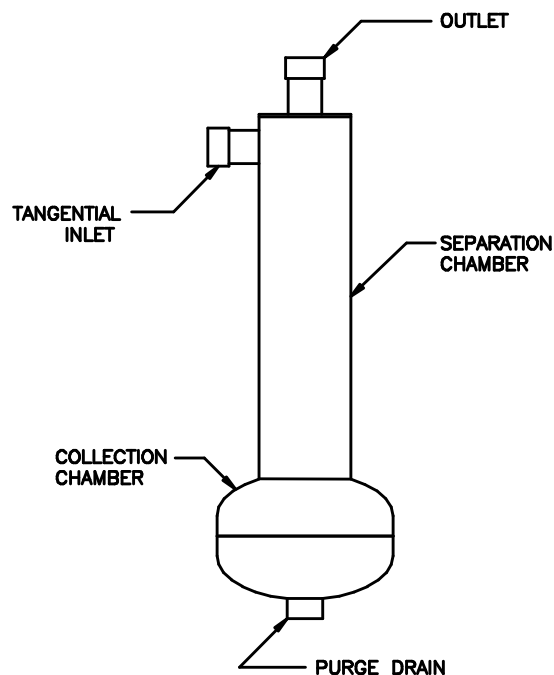
The minimum inlet pressure should be at least 15 psi (1.0 kg/cm²) or equal to the anticipated pressure loss through the separator *plus* the required downstream pressure.

Separator System maintenance:

Within the confines of proper application, your Liquids/Solids Separator should perform continually with little maintenance. However, Rosedale Separators must be purged regularly. Otherwise, the collection chamber will overfill causing a substantial degradation to system performance.

It is recommended that you purge the separator while it is in full operation. To determine the necessary frequency, purge often at first and calculate the proper rate in regards to the actual volume of separated solids.

FIGURE 1
STANDARD SEPARATOR DIAGRAM.



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Important Notice

Warranty: In the event any Rosedale Products, Inc. filtration product is found to be defective in material, workmanship, or not in conformance with any express warranty for a specific purpose, Rosedale's only obligation and your exclusive remedy, shall be to repair, replace or refund the purchase price of such parts or products upon timely notification thereof and substantiation that the product has been stored, maintained and used in accordance with Rosedale's written instructions.

EXCLUSIONS TO WARRANTY: THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY OF QUALITY, EXCEPT OF TITLE AND AGAINST PATENT INFRINGEMENT.

LIMITATION OF LIABILITY: Except as provided above, Rosedale shall not be liable or responsible for any loss or damage, whether direct, indirect, incidental, special or consequential, arising out of sale, use or misuse of Rosedale filtration products, or the user's inability to use such products.

THE REMEDIES SET FORTH HEREIN ARE EXCLUSIVE.

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