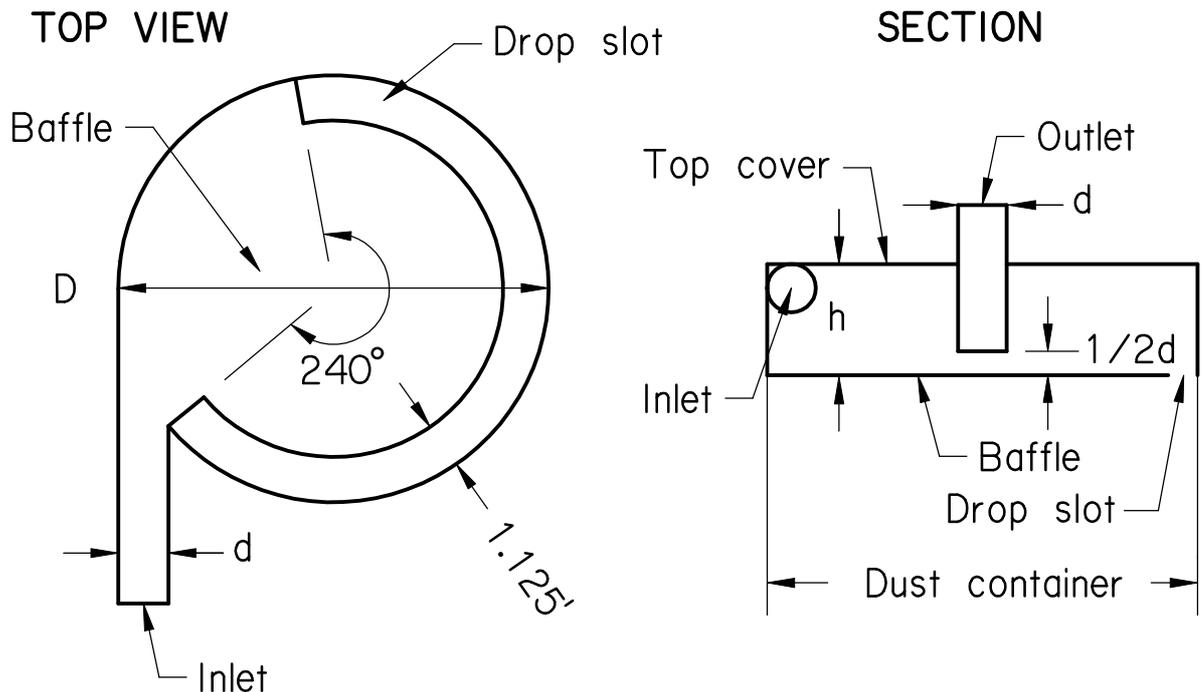


THIEN SEPARATOR (TOP HAT)

Design guidelines



- 1- The design may be scaled to suit.
- 2- The only fixed dimension is the slot width.
- 3- The configuration may be flipped over to place the inlet on the right-hand side. CW or CCW air rotation does not matter.
- 4- D, d and h can be any size within reasonable limits.
- 5- The shape and size of the dust container below the baffle do not affect operation.
- 6- The baffle goes on top of the container. Use a thin material for its construction (1/8" hardboard).
- 7- The cover is a solid disc with the outlet hole in its center.
- 8- A smooth finish on the inside and airtight construction improve operation substantially.

IMPORTANT NOTES

- i) The inlet is tangential to the separator and must be located as far as possible against the top cover.
- ii) Height h may be reduced to $h=d$ for a compact installation. However, separation improves with $h > d$.
- iii) Note that the outlet must project into the separator so that it ends at $1/2 d$ from the baffle.