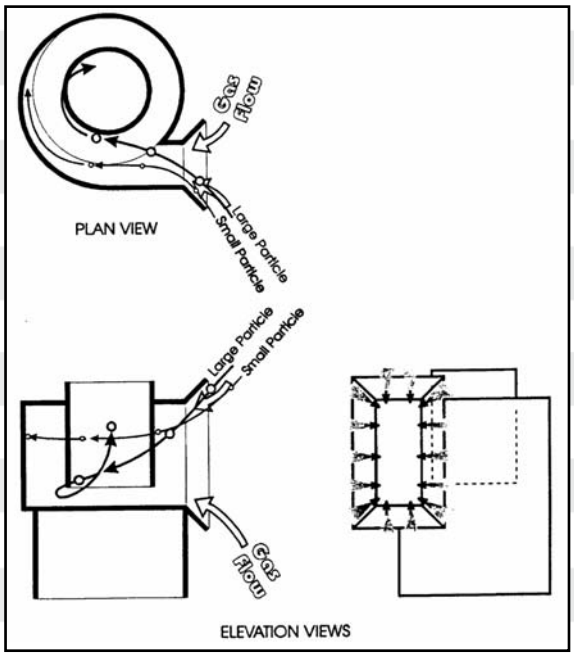
REDESIGN OF INLET STYLE ON REFINERY CYCLONES INCREASES FINES COLLECTION, PREVENTS EROSION, REDUCES RE-ENTRAINMENT

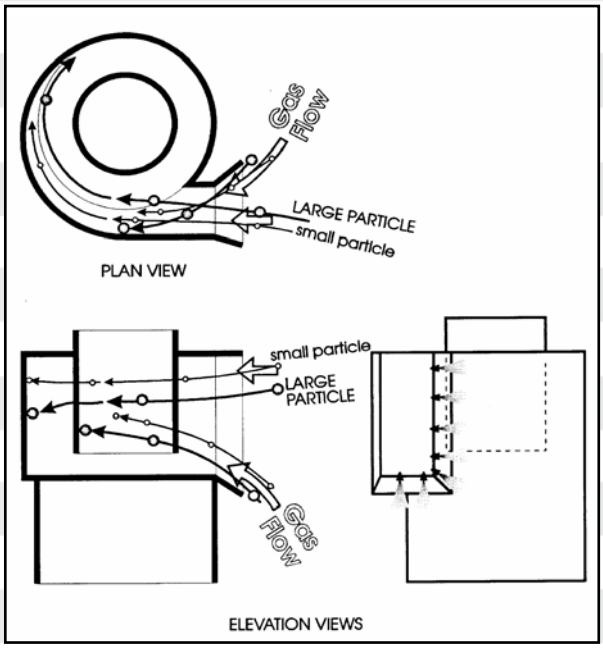


Traditional Style Inlet

In the old style inlet bell, the flow pattern concentrates the particles in the center of the duct. This allows the fine particles to travel closer to the bottom of the gas outlet tube where they may be entrained in the exiting gas flow and lost from the cyclone.

New Style Inlet

In the new style inlet, the gas flow tends to concentrate the particles to the upper outside corner of the duct. This phenomenon keeps the particles away from the bottom of the gas outlet tube, allowing the cyclone to collect more of the fines. The slight angle on the outside of the bell keeps a cushion of air along the cyclone wall preventing erosion that can occur when particle concentration and flow toward the cyclone wall is excessive.



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