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Fluid Catalytic Cracking Handbook. (text continued from page 236) reactor, slide valves are typically operated with a 25% to 60% opening and a pressure differential of 2 psi to 6 psi (15–40 Kp).

Any increase in the throughput or the conversion will either increase the opening, reduce the differential, or both.

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Fluid catalytic cracking is one of the most important conversion processes used in petroleum refineries. It is widely used to convert the high-boiling, high-molecular weight hydrocarbon fractions of petroleum crude oils into more valuable gasoline, olefinic gases, and other products. Cracking of petroleum hydrocarbons was originally done by thermal cracking, which has been almost completely replaced by catalytic cracking because it produces more gasoline with a higher octane rating. It also prod

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to make high-octane number gasoline.

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A gas/solid separation system that can be applied to any type of FCC unit regenerators, consists of a device for separating solid particles contained in a gas stream coming from the regeneration zone of a fluid catalytic cracking (FCC) unit bounded by an inner envelope (3) of cylindrical shape centered about the vertical axis of the regeneration zone, and an outer envelope (1) that has one ...

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