Emerson Fisher® SS138B Solutions for Continuous Catalytic Regeneration Applications

Where?

Continuous Catalytic regeneration (CCR) Process, catalyst isolation and interrupt applications

Why?

- Designed to prevent Catalyst damage and pressure build-up

Results

- Improved process performance
- Reduced operating costs
- Increased availability

The SS138B trim features specially designed flow passages to reduce erosion and uses specific clearance of 0.254 to 0.508 mm (0.010" to 0.020") or 0.508 to 0.712 mm (0.020" to 0.030") to ensure optimum performance as specified by process licensors. The valve and the actuator assembly are matched to provide customer required stroking time. Options are available for both 316°C and 538°C temperature requirements.

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Process Management

The SS138B is a segmented ball valve used to control the flow of catalyst from reactor to regeneration tower in a continuous catalyst regeneration (CCR) unit. The demanding nature of the application requires a specific design which prevents crushing of the catalyst and pressure build up down stream of valve by eliminating gravity feed of catalyst through the valve. The special design adds to the service life of the catalyst and maintains the efficiency of the CCR unit. The SS138B is designed according to process licensor requirements and has an excellent track record in many refineries around the world.

Description

The figure below shows the special clearance of 0.254 to 0.508 mm (0.010" to 0.020") as recommended by process licensor.

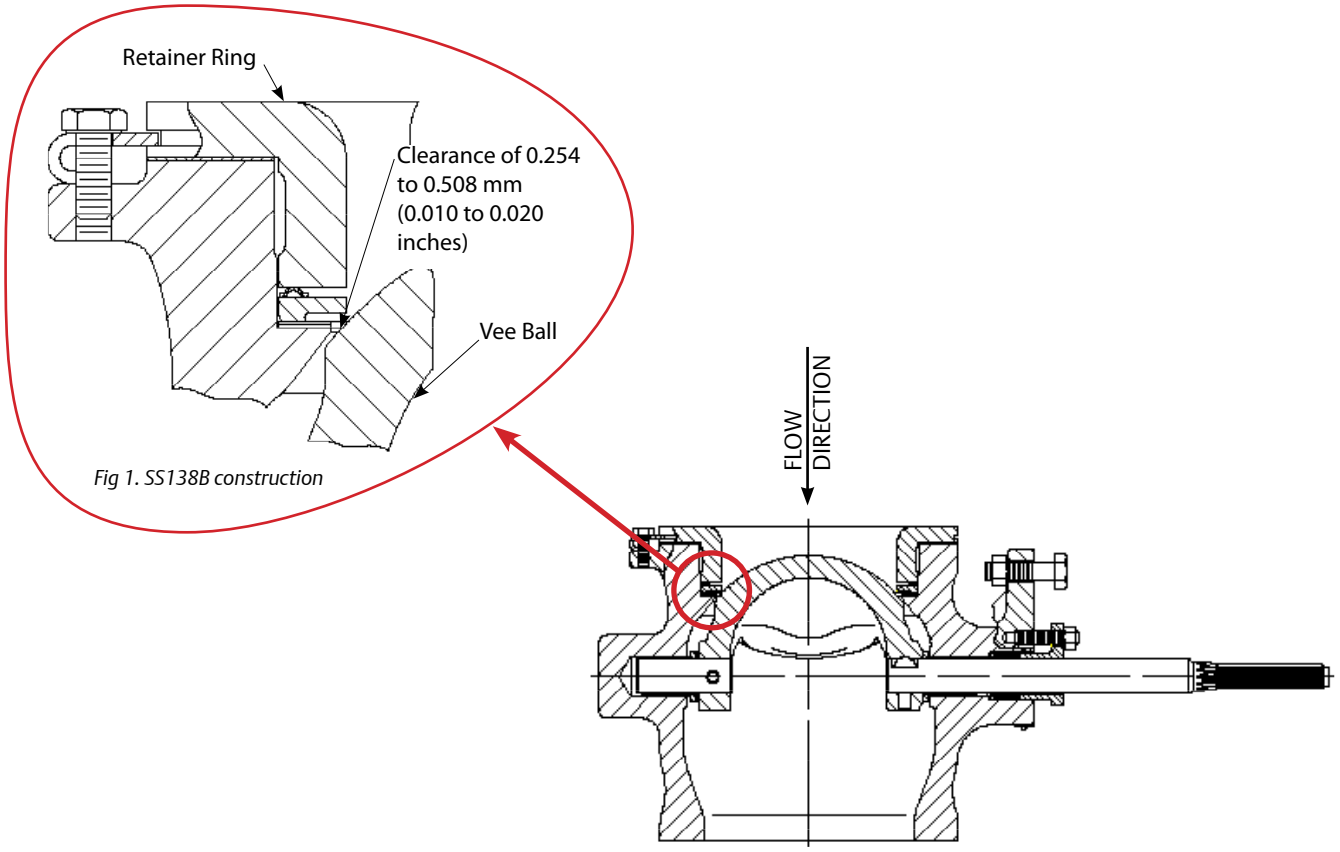

Fig 1. SS138B construction

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