

Free Flow Collar for Bulk Solids Fluidization



The Free Flow Collar® from Red Valve addresses bulk handling industry needs by combining the reliability and performance of its Control Pinch Valve product line with an innovative new solution for fluidizing of “bulk” materials.

The Free Flow Collar® allows Red Valve’s pinch valves to provide superior material handling with dust-free service, automated batching and self-cleaning. All with the legendary maintenance-free features of Red Valve Pinch Valves.

By separating all moving parts from contact with the material, “wear vanes” are eliminated and general valve wear is greatly reduced since the new Free Flow Collar’s® wear-resistant elastomer surfaces are the only areas in contact with the material. Specialty elastomers can be chosen for a wide range of applications including fly ash, cement, cereal grains and many others.

Red Valve provides both manual and control valves tailored for automated applications. Red Valve provides controls for precise throttling of pressure and flow control, monitored by either process sensors or centralized process controls. The valve range can be on-off or controlled by pneumatic, electrical, or hydraulic actuators.

Principle of Operation

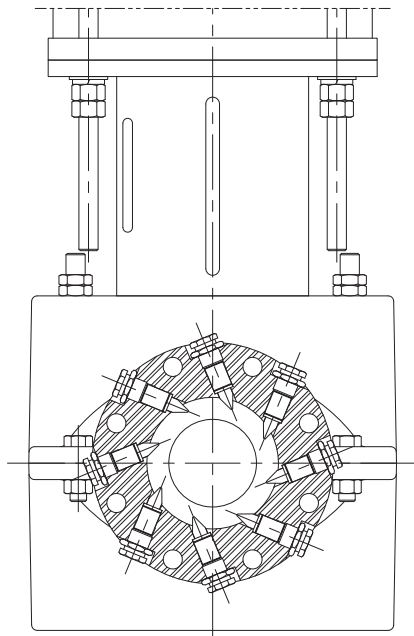
The Free Flow Collar® creates a swirling vortex that keeps bulk solids suspended by air, providing a fluidizing effect that keeps them moving.

The air being used can range from instrument quality air for sensitive materials, to clean and dry shop air. As always, Red Valve is there to make your selection easy based upon your system needs.

The material of the collar is custom-matched to meet process requirements. The tubing and nozzles are likewise specified to be compatible with your process and surroundings.

The Free Flow Collar® and valve can also be provided to meet explosion proof requirements.

U.S. Patent No. 10,538,438
Canadian Patent Pending



Free Flow Collar Used in Conjunction
With Red Valve Pinch Valve