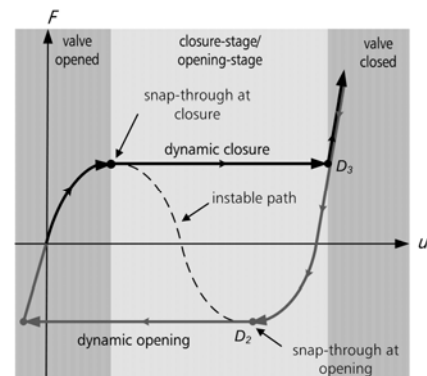
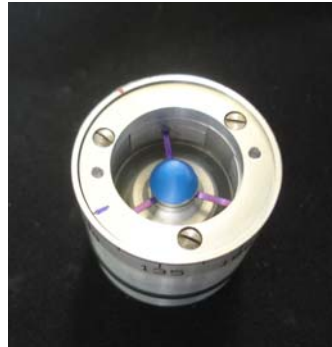
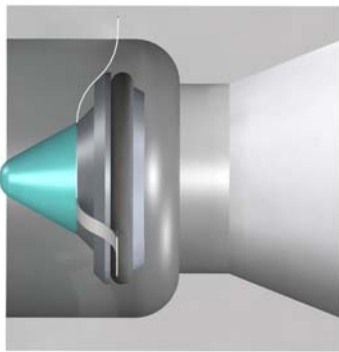


Safety-valve for gas piping systems

System: radial arranged plate spring elements under pretension (pre-stress)

Functional principle:

A closure element, which is mounted in a valve body through radial arranged pre-stressed plate spring elements, is in a stable initial state (valve opened). Exceeding a critical fluid flow in the valve, the closure element is abruptly pressed in the valve seat (valve closed). Due to the pre-stressed plate spring elements the valve has a bistable characteristic. The valve remains in the closed state, even after pressure compensation (safety function).



Features and Advantages:

- two stable states (valve opened / closed)
- use of radial arranged pre-stressed plate spring elements
- no friction
- minimal fluid flow interaction (reduction of cross-section)
- insensitive to fouling
- function independent from fitting position
- cost effectiveness

Other Applications:

- solenoid impulse valve
- overload pressure valve

Gefördert durch:



aufgrund eines Beschlusses
des Deutschen Bundestages