DUTCO TENNANT LLC
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Nozzle Type Check Valve

Description

Nozzle check valves are designed specifically for scenarios in which a fluid, gas, or slurry is pumped in a low pressure or otherwise intermittent flow. In particular, they are meant to close quickly and quietly during low pressure and no-flow periods, and can be used to reliably prevent the liquid, gas, or slurry from flowing in the reverse direction.In nozzle check valves, the shutoff mechanism is a disc, which is held against the seat by an internal spring. When the pressure of the fluid, gas, or slurry against the disc at the inlet overpowers the closing force of the spring, the spring compresses and the fluid, gas, or slurry flows freely. When the fluid flow slows or stops, the spring automatically closes the valve.

Features

- ✓ Quick and dynamic responses to changes in flow pressure and velocity
- ✓ Pressure loss minimization
- ✓ Minimization or elimination of water hammer, and its damaging effects
- ✓ Elimination of valve chatter in low flow conditions
- ✓ Protection for pumping and rotating equipment from reversed flows
- ✓ Zero leakage performance when compared to other check valve types

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Material Specification

Body, Cover	Ductile Iron /Cast Iron
Seat(s)	Stainless Steel / Gunmetal / Rubber
Springs	Stainless Steel
Internal, External Bolts, Nuts	Stainless Steel / Galvanized Steel
Sizes	DN50 – DN 1800
Pressure rating	PN10/16/25
Hydraulic Test	1.1xPN for Seat & 1.5xPN for Body
Coating	Nontoxic Epoxy Internally & Externally