

Safety Breakaway Devices NTS-PI Series Breakaway Coupling

Areas of application

The OPW Engineered Systems NTS-PI Series Breakaway protects loading facilities, hoses and prevents spills at the same time. Separation occurs by a simple pulling force on the hose line. It finds its application in fluid and gas transfer. The OPW Engineered Systems NTS-PI is axially built into hose lines (see example design at right).

Construction of the NTS-PI Series

The NTS-PI consists of two halves (Adaptor & In-line), each equipped with spring-loaded valves held together by a ball bearing connection for rapid hook-up. A pulling force on the hose triggers the separation. To protect the hose line from damage, the separation force of the NTS-PI can be individually adjusted.

Function

While coupled the valves of the Emergency Release System NTS-PI are open. Upon a pre-determined tensile force – independently from the working pressure – the separation occurs. Both valves close thus preventing spills and protecting the loading station at the same time.

The NTS-PI allows for a spare part free, non-destructive separation – no shear pins involved and no destruction.

After depressurizing and emptying the hose, the NTS-PI can be reassembled easily, without tools or spare parts.



Material/Seal Rings:

- 1.4571(316Ti)/PFE/Chemraz® for most chemicals
- Hastelloy®, Monel 400, Alloy 20/Chemraz for acids and alkaline solutions
- Aluminum 1.4301(304)/Viton for LPG, solvents & fuels

Pressure Ratings: 360psi for all sizes (Alu 232psi)

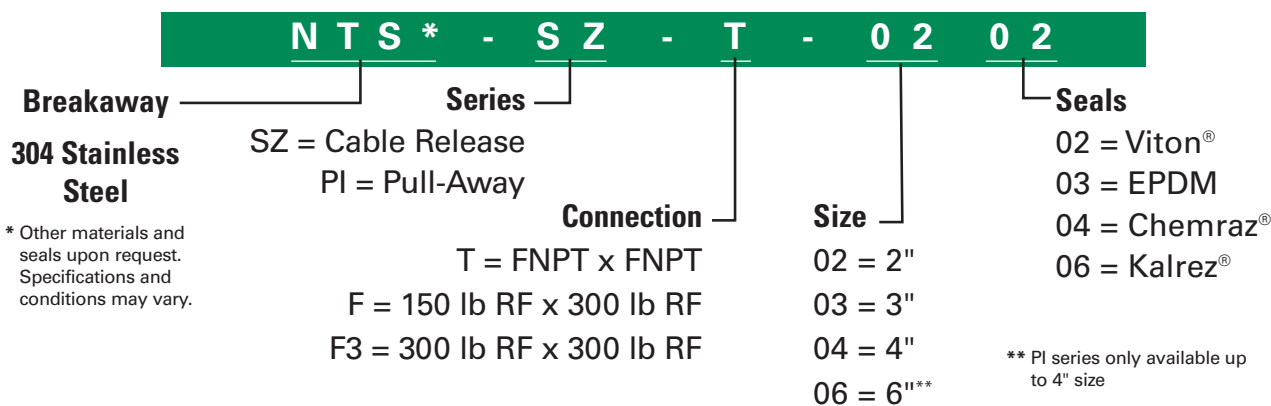
Connections: NPT/BS
or Flange 150/300# 1", 1¼" 1½", 2", 3", 4"

Options:

Valve only on one side,
open system for water,
vapor lines, granulate
material/powder,
highly viscous media



Selection Guide



IMPORTANT: OPW products should be used in compliance with applicable federal, state, provincial, and local laws and regulations. Product selection should be based on physical specifications and limitations and compatibility with the environment and materials to be handled. OPW MAKES NO WARRANTY OF FITNESS FOR A PARTICULAR USE. All illustrations and specifications in this literature are based on the latest product information available at the time of publication. OPW reserves the right to make changes at any time in prices, materials, specifications and models and to discontinue models without notice or obligation.