



# NTS®-Family of Emergency Breakaway Couplings



**NTS®-PI** - Release under straight pull (no angle)

The NTS®-PI enables a safe, non-destructive spill-free breakaway of hoses and loading-arm systems- regardless of system pressure. It is typically built into the hose string, with the release triggered by an axial tensile load.

Both halves of the NTS®PI device are equipped with spring-loaded check valves. In case of an emergency breakaway, these valves prevent product spills on both ends. A manual release mechanism is activated by the axial tensile load and disconnects the system without spills. The integrated swivel function protects flexible hoses and loading arms. And because it does not require spare parts or special tools, post-breakaway reassembly is quick and safe.



**NTS®-PU** - Release at any pull angle from 180°

The NTS®-PU enables non-destructive, safe, and spill-free breakaways of flexible hoses and pipe systems used for loading and unloading. It can be built into a hose string or mounted onto a manifold. The pull-away typically occurs at an angle, but straight pull-always are another possible trigger of a safe separation.

Additionally, the NTS®-PU system responds to unexpected pressure spikes, which also trigger controlled separations. Both halves of the NTS®-PU are equipped with spring-loaded check valves that prevent potential fluid spills on both ends. A manual release is also available. No spare parts or special tools are required, ensuring a quick and safe assembly after a breakaway.



**NTS®-SZ-CS** For aggressive products. Release by cable pull.

The NTS®-SZ-CS works under the same principle as the NTS®-SZ (cable pull) and is designed to handle aggressive media – organic, inorganic, acid, or bases.



Source: Shutterstock



**ARTA**  
more than stainless steel

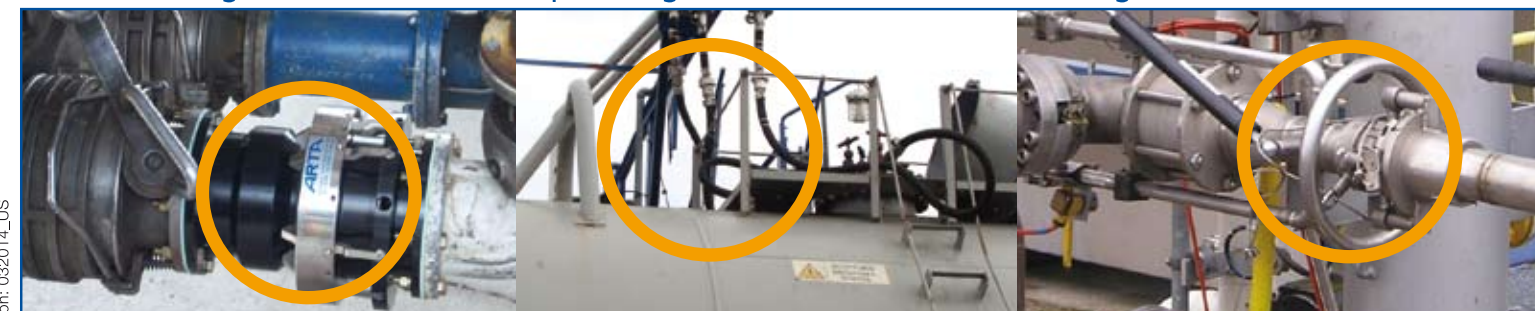
## NTS®-SZ

### Safety Breakaway Coupling with Cable Pull

The non-destructive NTS-SZ breakaway system for loading arms and flexible hoses ensures safety by preventing product loss and protecting the loading rack at the same time.



Bottomloading with **NTS®-PU**    Topping with **NTS®-PI**    Loading-Arm with **NTS®-SZ**



The illustrations reproduced above may differ from the original. Specifications correspond to the current state of development. Subject to change.

Edition: 032014\_US