

Auszug aus unserer NTS®-Familie



NTS®-PI - release at any pull angle 60°

The NTS®-PI enables a safe non-destructive spill-free breakaway of hoses and loading-arm systems regardless of system pressure. Both halves of the NTS®-PI device are equipped with spring-loaded check valves that prevent product spills on both ends in case of an emergency breakaway. The manual release mechanism is activated by the axial tensile load and disconnects the system without spills. The integrated swivel joint mechanism protects the flexible hoses and the loading arm. It does not require spare parts or special tools for a quick and safe assembly after a breakaway.



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 for loading and unloading. Further, the NTS®-PU system responds to unexpected pressure spikes by triggering a separation. Both halves of the NTS®-PU are equipped with spring-loaded check valves that prevent potential fluid spills on both ends in the case of an emergency breakaway. The manual release is also available. No spare parts or special tools are required for 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 has been designed to handle aggressive organic, inorganic, acid or base products.

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



Source: Shutterstock



ARTA
more than stainless steel

NTS®-SZ

Emergency release coupling with cable pull

Maximum safety with a non-destructive release
Pipe and flexible hose breakaway without product loss



CHEMICALS

Our Company

ARTA has been a leader in the manufacture of innovative valves, system solutions and services for the chemical, petrochemical, pharmaceutical and food industries for more than 50 years. Our solid growth as well as our product and accessory improvements and upgrades are the result of optimal synergistic development and the close collaboration with our clients. We offer technical support for all stages: conception, development and aftermarket.

Applications

The ARTA NTS®-SZ system is designed to transport liquid, gas and solid products.

ARTA NTS®-SZ protects the operator, the equipment and the environment against damages and leaks in the event of an emergency breakaway.

The ARTA NTS®-SZ controlled release between the vehicle and the equipment is activated when a tank truck, railcar or barge moves away unintentional.

Advantages of the emergency release coupling with cable pull.

- **Independent pull angel**

The 360° degree pull angle insures a safe release at all times regardless of the pull angle.

- **High performance activation mechanism**

At no time the system ever experiences pull, stress before, during and after an emergency release.

- **Non-destructive release provides maximum safety**

The ARTA non-destructive system insures a safe and quick release. None of the components are destroyed in case of an emergency release.

- **Fast and simple onsite assembly**

No special tools or spare parts such as shear bolts are required after an emergency breakaway. Reassemble time is minimal and can be done at the plant site.

- **Maximum flow**

The optimized design of the NTS®-SZ insures that pressure loss is minimized while the transportation volume is maximized as much as possible.



Operation

Upon an unacceptable pull, the NTS®-SZ mechanism is activated and releases both sides of the valve. Both valve halves separate without damage and the spring loaded valves close both ends.

Applications

Adequate for liquid, gas or solid products - vacuum or supply connections:

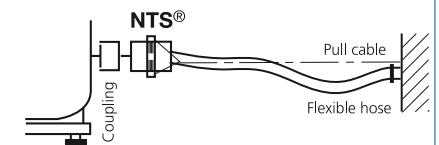
- Tank trucks (truck and railcar)
- Barges
- Containers
- Pumping, mixing and loading stations
- Hose stations

High performance in:

- Low and high temperature applications
- Vacuum and high pressure applications

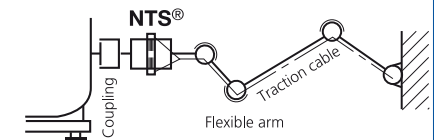
Loading hose

Tank truck
Railcar
Tanker ship



Loading arm

Tank vehicle
Railcar
Tank ship



Technical specifications

Nominal size:	DN25 to DN300 (1" – 12")
Pressure rating:	PN16 to PN40, 225-600 psi
Working temperatures:	Standard -50°C a +180°C, heated and refrigerated systems according to schedule
Materials of construction:	1.4301, 1.4404, 1.4571 and Hastelloy® and FEP internal parts for aggressive products
Seal materials:	Elastomers, perfluorelastomers and others depending on the product to be handled
Connections:	Threads NPT, BSP, ISO, others Flanges: DIN, ANSI, ISO, ASME, others
Accessories:	Proximity switches Pre-alarm system Manual activation system Remote control system (hydraulic, pneumatic)



Non-destructive release with NTS®-SZ

No components are destroyed during an emergency breakaway. Since no spare parts are required, the simple reassembly can be done easily.

Approved by: TÜV, CE, Abz