Our Company

For more than 50 years ARTA has been the market leader in innovative engineered couplings, complete system solutions, and specialized service for the chemical-, petrochemical-, food-, and pharmaceutical industry. Through cutting edge research and development, we provide our customers with state of the art products and accessories. These solutions are continuously updated according to meet our customers' evolving needs. We offer complete customer service: from early budgetary planning, to after-sales care.

Applications

Designed to transport liquid, gas and solid products, the NTS®-SZ protects operators, equipment, and the environment from damages caused by an emergency breakaway.

How it Works

Utilizing a cable which is shorter than the hose or a loading arm, it provides a controlled release between vehicles and equipment during unintentional movements. This controlled release allows for total independence from any pull angle. Additionally, it operates independently from the line pressure, making the NTS®-SZ the most predictable and versatile breakaway on the market.

Advantages of the emergency release coupling with cable pull.

- **Independence from the pull angle**
  A 360° radius of activation makes the NTS®-SZ totally independent from any pull angle.
- **High performance activation mechanism**
  Systems will never experience stress before, during, or after an emergency release.
- **Non-destructive release provides maximum safety**
  The ARTA non-destructive system ensures a safe and quick release. No components are damaged or destroyed.
- **Fast and simple onsite assembly**
  No special tools or spare parts, such as shear bolts, are required after an emergency breakaway. Reassembly time is minimal and can be done at the plant site.
- **Maximum flow**
  The optimized design of the NTS®-SZ minimizes pressure loss, while maximizing transportation volume.

Operation

Upon an unintended pull force, the NTS®-SZ separation mechanism is activated, simultaneously releasing both coupler halves and sealing off both ends.

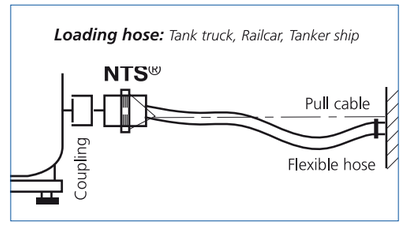
Applications

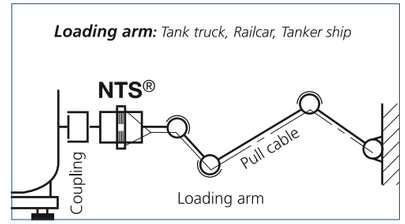
Used in unloading or fill lines for liquids, gases or solids. It operates under vacuum or positive pressure conditions.

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

High performance in:

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





Technical Specifications

Nominal Diameter:	DN25 to DN250 (1"– 10")
Pressure Levels:	PN16 to PN40, 225-660 psi
Working Temperatures:	Standard -50°C to +180°C (-58°F to +356°F), heating and cooling jackets available
Housing Materials:	Stainless steel (e.g. 304, 316) or Hastelloy® and PTFE lined for aggressive products
Seal Materials:	Standard elastomers, perfluorefluor-elastomers, 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-Alert 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: TUV, CE, Abz