



Our Company

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

Areas of Applications

The ARTA NTS®-PU system is designed to transport liquids, gases, and solid products. In the event of an emergency pull off, the ARTA NTS®-PU protects the operator, the equipment and the environment against damages and leaks. The ARTA NTS®-PU controlled release between the vehicle and the equipment is activated when a tank truck, a railcar or ship leaves its envelope of operation.

Structure and Function

The ARTA NTS® breakaway is primarily triggered by tensile force acting on the hose loading arm, but an excessive increase in line pressure can also trigger a controlled separation. It is self-activating without the need for external energy.

Both ends of the emergency breakaway coupler are equipped with self-closing check-valves, preventing spills. At the same time NTS protects the loading rack from being torn down.

Non-Destructive Release

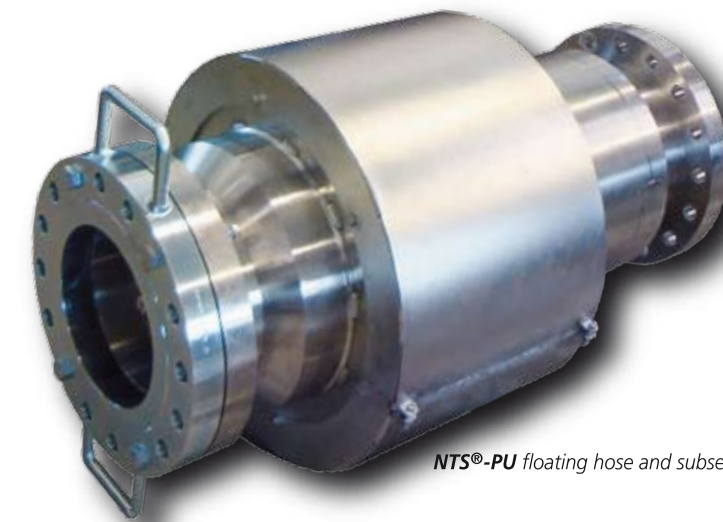
The ARTA non-destructive system (no pins) ensures a safe and quick release. No components are destroyed.

Fast and Simple Onsite Assembly

No special tools or spare parts, such as safety or break bolts, are required after an emergency breakaway. Reassembly time is minimal.

Maximal Flow

The flow optimized design of the NTS®-PU minimizes pressure loss while maximizing transfer volume.



NTS®-PU floating hose and subsea

The NTS®-PU emergency release coupler can be used for gas and liquid marine applications.

Technical specifications

Sizes:	1"-16"
Pressure Levels:	232 psi (PN16) and 360 psi (PN25)
Temperature Ratings:	-40 °F to - 185 °F (-40 °C to - 85 °C)
Casing Materials:	Brass, aluminium, stainless steel, special alloys
Seal Materials:	Elastomers, FMP (e.g. Viton®), PFE-Perfluoro Elastomer (e.g. Chemraz®), EPDM, NBR
Triggering Mechanisms:	a) Pull force b) Excess pressure c) Combination of both
Connections:	Threaded or Flanged 1" to 4" Flanged 1" to 16"
Approvals:	TUV, CE
Options:	a) Single side valve b) Open (no valves)



Example of application: Installation of a 8" NTS®-PU

Approved by: TUV, CE