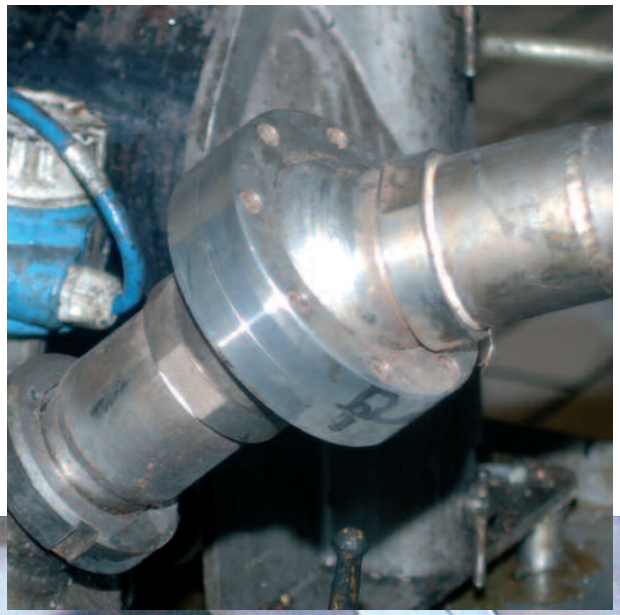
RS Safety Technology
for the Process Industry

RS®
A Strong Brand in Your System

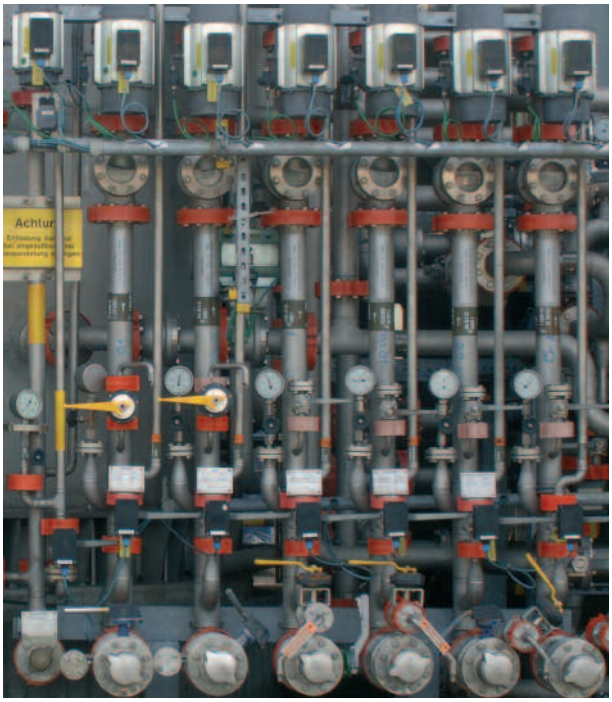


Safety first

Safety is the top priority throughout the process industry. Managers are rightly responsible for the safety of staff, equipment and the environment. Wherever people work mistakes will occur, and this is the challenge for professionals: using the available resources to create the safest and most efficient working environment.

Interfaces within the process: a special problem area

As an industrial process moves through the stages of raw material intake, mixing, handling, reaction and discharge, materials are moved, altered and transported further. Whether the material is liquid or gas, paste or powder, a sensitive foodstuff or a hazardous chemical, some type of risk is always associated with its movement or containment. Whereas conditions within the plant can be predicted and controlled, the transfer from one container or process stage to another introduces variables which are not so readily dealt with. Here, at the interfaces within and at the start and end of the process, special risks are present.



Solutions

You need a professional safety approach to achieve

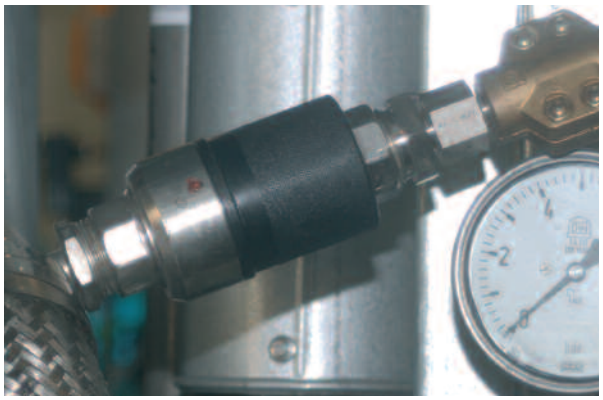
- Optimum process conditions, even for challenging media
- Maximum safety for staff
- Maximum safety for the process equipment and the environment

RS and our business partners understand your problems, and we can supply standard or custom-made solutions, competent advice and products which deliver what they promise.

Safety professionals

Example 1

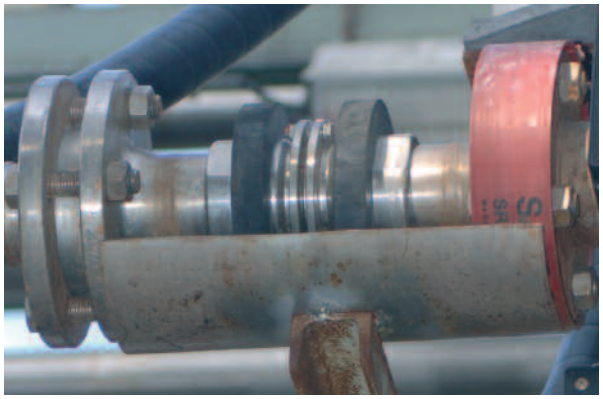
Someone is handling a hose containing steam at 7 bar and 180° C. What will happen if the connector separates?



Nothing, when a ➟**Steam dry disconnect coupling** from the RS ➟ **Drydis series** is used. The sophisticated safety technology ensures complete safety in the presence of the hazardous medium.

Example 2

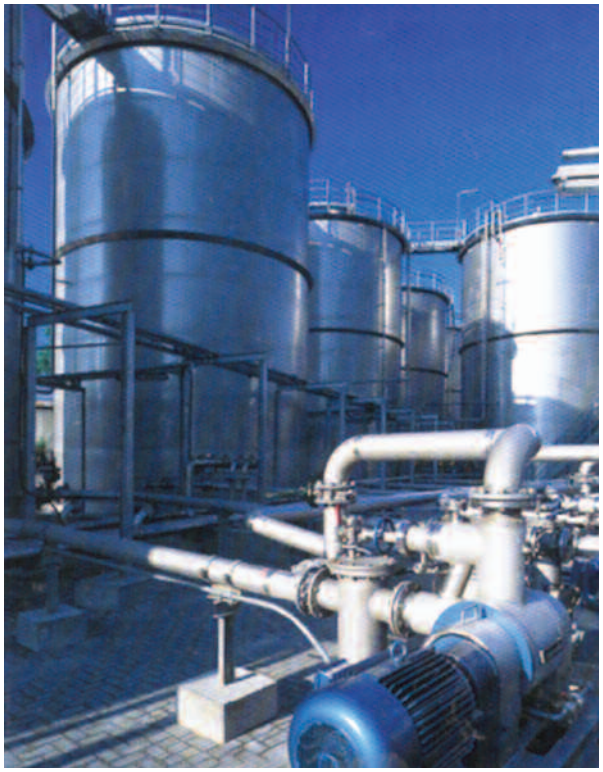
A fork-lift truck catches a hose and causes it to rupture. What happens next?



Nothing, when a ➟ **Breakaway coupling** from the RS Drydis series is used. The coupling reacts to excessive strain or force by automatically disconnecting the hose without damage to the hose, the coupling or the connector, and without loss of product.

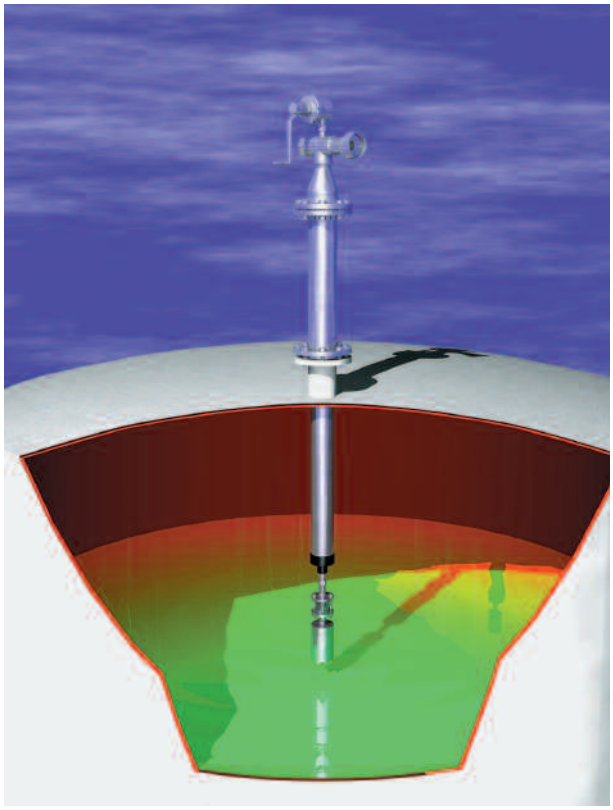
Example 3

Someone has connected a transfer hose but forgotten to connect the vapour return line. What happens next?



Nothing, when the RS ➟ **COSY** hose monitoring system is in place. A signal is automatically sent to the process controller ensuring that the pump cannot start or the product valve open until the error has been corrected.

... keep your process running



Example 4

A tank of acrylic acid is subject to uncontrolled polymerisation with an unpredictable end point. What happens?

Nothing, when the RS ➞ **RESTAB System** stabilises the product by adding an inhibitor to stop the polymerisation.

Further information is available for products, systems and services marked with ➞ Please call or email us for details.

Advantages at a glance

RS safety technology

- Protects staff from injury
- Protects the environment from leaks and spills
- Protects the process equipment from damage
- Protects against product loss
- Eliminates the need for catch basins
- Save clean-up and down-time costs

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