

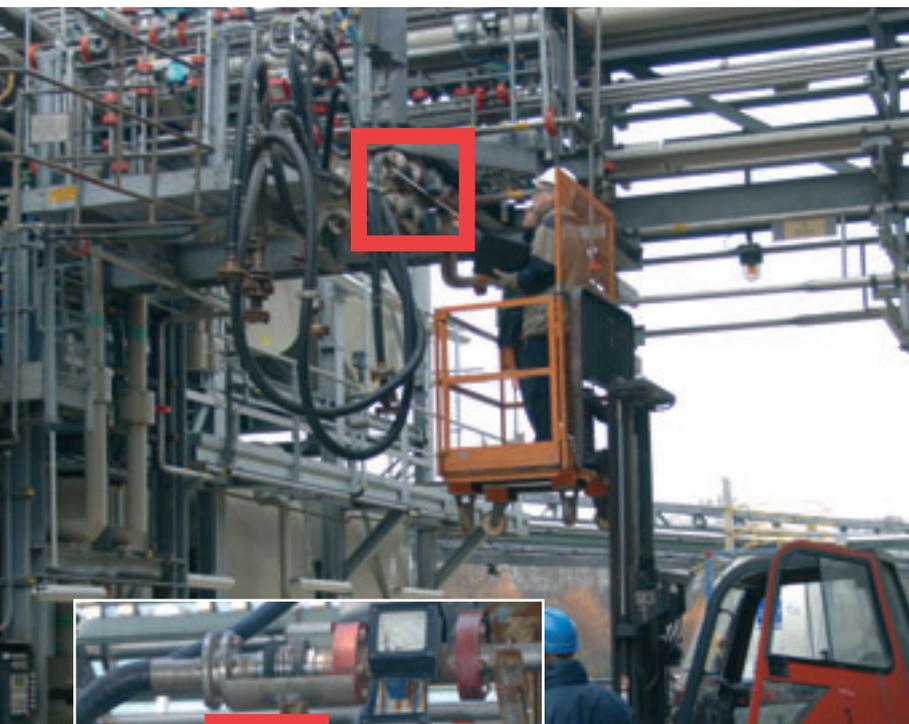
System Chemie

Reference installation: Goldschmidt GmbH, Essen, Germany

**Goldschmidt GmbH, the Essen location of Degussa AG.
A safety-oriented company which relies on the security
of RS products for hose line and fittings technology.**

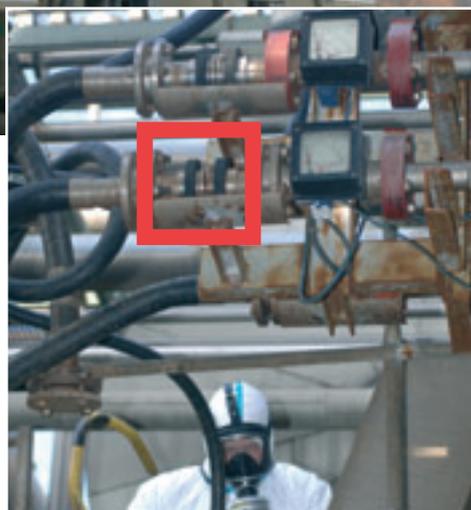


Degussa Chemicals



Experts from Goldschmidt, RS and MSR on site.

Goldschmidt GmbH in Essen is a chemical company which operates within the city. This requires the plant to work to a very high level of safety and responsibility with respect to its neighbours and the surroundings. Goldschmidt has more than 1000 employees whose health and safety are at a premium, and the explosive nature of some of the material handled intensifies the need for care. Several thousand people depend on the factory's economic health and performance for their jobs and quality of life, requiring constant optimisation of the plant and processes used. An impossible challenge? Goldschmidt see it rather as an opportunity to demonstrate responsibility, and in doing so they set a example of safety in the workplace.

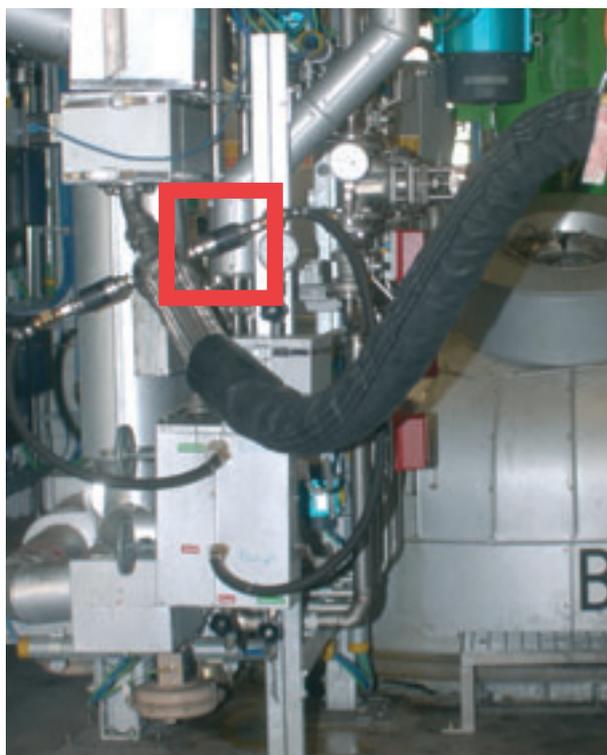


Goldschmidt's commitments to acting as a responsible partner towards the people and environment they work with are brought together in their program "Responsible Care". This commits to a program of continuing improvement in the safety of the workplace. One aspect which has been put into practice for several years concerns the hose lines and fittings used on site; this prescribes the almost universal use of safety couplings and fittings, and these are now largely provided by RS. These transmission lines – the hoses and pipes for transporting fluids – can be considered as the veins and arteries of a chemical plant. Goldschmidt

Setting a top example of safety in action, the company's stringent adherence to safety procedures has resulted in some departments at Goldschmidt having a record of zero reportable accidents for more than 10 years.

uses about 1200 pipes or hoses and twice the number of couplings. Each one is documented in the plant's central workshop, which for the last six years has been responsible for the specification and performance of all the transmission lines in the plant and for testing them for proper sealing, electrical conductivity, pressure resistance or conformity with the regulations applying to the particular type, such as the T002 data sheet of BG Chemie, the German employers' liability association. An example of the process of continuous improvement is the switch to → **ball swivel joints**, which were first developed in cooperation between Goldschmidt's Care and Surface Specialities group and engineers from MSR and RS. The first units were put into regular use in Essen and the results showed a considerable increase in the lifetime of hoses, with a net cost saving.

Safety first.



Safety in the System

Leakproof coupling

More than half of the Eastern works section is an explosion-protected area, good reason to choose couplings with the highest possible safety rating. The sophisticated valve technology used in the → **Dry Disconnect Coupling TR** ensures that hazardous material is safely isolated when a coupling is opened and that no leakage can occur.



Breaking the connection in an emergency

At the tanker loading station rail tankers are filled with liquid from above. Here, at the interface between production and transport facilities, → **Drydis Emergency Release Couplings Type ABV** ensure that unexpected movement of the wagon cannot lead to an accident. At a predefined loading on the hose – far below the failure point – the coupling separates and safely seals the two ends of the joint.



Combination emergency release and dry disconnect coupling

These couplings and hoses are being prepared in a cleaning station before being used in the loading bay. The combination of → **TR** dry disconnect couplings and → **TMA** and → **TRA** emergency release couplings provides the safety of a defined break point should a hose be overstretched and eliminates the risk of hose line rupture.



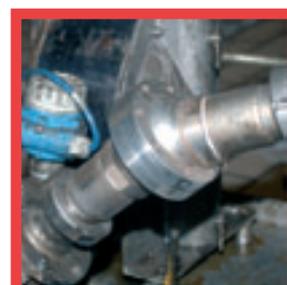
Protection against superheated steam

The SIC operation, part of the Care & Surface Specialities division, produces special types of silicones such as those which are used in cosmetic emulsion creams and lotions. Since production started in 2004 there have been no reportable accidents, thanks partly to the → **Dry Disconnect Couplings TD** which are used to help protect staff from the steam at up to 7 bar pressure and 180° C which is used to heat the hose lines.



Longer working lifetime

In many parts of the works, such as the one shown here, hoses must be protected against damage from excessive bending or twisting. The patented → **RS Ball Swivel Coupling** is specially designed to protect the hose, increase its lifetime and simplify handling.



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RS the innovators

Innovation on line: individual solutions to individual and general problems.

**RS – System Chemie:
Systematic safety for the chemical industry**



RS Chemie safety fittings

The patented RS ball swivel joint was primarily designed to prevent hose lines from being damaged by excessive bending or twisting. The joints accommodate movement of around 50°, which would otherwise result in sharp bends or kinks in a hose.



The TP dry disconnect coupling – a clean solution for sterile applications. Manufactured from high grade stainless steel, these couplings can be used in all branches of industry and thanks to their conformity with the CIP specifications of EHEDG they are particularly suitable for sterile applications.

When superheated steam has to be transmitted through a hose it places heavy demands on the hose and the couplings, which must have special properties to meet the requirements of the T002 specifications of the German chemical industry and equivalent regulations in other countries.



Yes, I am interested in RS Chemie fittings.

- Please send me further information.
- Please arrange an appointment with a specialist.

Name

Company

Street

Postcode, Town

Phone

Email

Please frank!

Reply Card

RS
Roman Seliger

Armaturenfabrik GmbH
An'n Slagboom 20

D-22848 Norderstedt

Why we use RS fittings



Dipl.-Ing. Michael Luksch,
Plant engineer at Goldschmidt:
"Hose damage from kinks used to result in such high wear and damage at some of the connection points that we had to replace the hose every six months. Since we have been using the **RS ball swivel joints** the problem has been almost eliminated."



Kai Engels,
Plant engineer:
"With MSR and RS we found partners who we could work with to bring our ideas to reality, and the custom-made solutions to our problems brought real improvements in our process costs and handling."

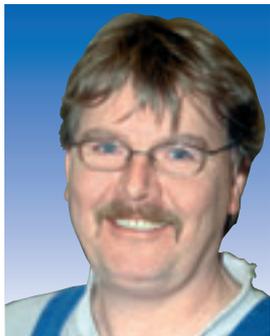
Thomas Schilling,
Plant engineer:

"Our no-compromise policy on safety has paid off, and since we started using the best fittings instead of the cheapest ones we haven't had a single reportable accident."



Harald Bunge,
Fitter and authorised hose assessor:

"Thanks to having our own workshop for assembling and testing hoses we have a complete picture of every hose line in the works. It's clear that the more we focus on quality the more our hoses will pass the safety tests."



Ralf Berger,
Fitter:

"Even when we have to take a hose out of use due to damage, we can usually re-use the RS fittings and fit them to a new hose."



Frank Marquardt,
Director of GF MSR Schlauchtechnik GmbH:

"As a company distributing and supplying hose lines we are constantly faced with real-life problems, and in RS we have a partner who combines top quality with innovation and personal service."



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degussa. Goldschmidt GmbH in Essen

Facts and figures

Goldschmidt GmbH was founded in 1889 and is now part of the Degussa group, one of the world leaders in speciality chemicals with a total workforce of 44,000 and an annual turnover of nearly 12 billion Euro.

Goldschmidt is one of the largest industrial producers in Essen and employs about 1400 people. It is also the location for the company's Care and Surface Specialities group which manufactures specialized fats, oils and silicones. These are used in industry as raw materials and process additives for industrial and consumer products, and there is a second production location in Duisburg.

Goldschmidt's directors are Dr. Claus Rettig, Andreas Bonhoff and Manfred Recksik.