

# When two companies complement each other, the end-customer benefits

Manfred Rupflin, Sales Engineer, Angst+Pfister Germany  
 Andreas Staerr, Sales Engineer, LIAG® – Laeufer International AG

**Hygiene is the top priority when it comes to the production of food and beverages, pharmaceuticals and cosmetic items. And when it comes to cleaning flow conduits in processing plants and equipment even in hard-to-reach inner locations, the name of the solution is "pigging technology". With its pigging systems, LIAG® – Laeufer International AG in Meersburg (Germany) makes it possible to safely enjoy industrially processed foods. Angst+Pfister adds seasoning to the soup in a sense by supplying a variety of sealing elements and plastic components.**

High-tech production processes in the food-and-beverage industry make sophisticated cleaning mechanisms absolutely essential. Pigging technology is one of the most economical and ecological ways to convey different products through a pipeline while cleaning the conduit at the same time. When, for example, a certain type of beverage is conveyed through pipelines, it leaves behind residues that regularly have to be completely removed. Consumers, after all, want to enjoy their soft drinks and yogurt drinks without any stale aftertastes. Thorough flow conduit cleaning is all the more important during production changeovers. Pigging technology is indispensable especially when highly viscous liquids such as oil are involved. The pigging procedure ensures maximum quality and process safety.

### Fitted exactly to the application

Junctions of all types in such plants and equipment represent especially critical points in the cleaning process. LIAG® arc valves and LIAG® pigging valves from Laeufer can ease these critical points. The valves' ability to smoothly fulfill their tasks is substantially attributable to the harmonious interplay between their individual components, which is ensured in part by O-rings, shutter materials and bearing sleeves from Angst+Pfister. They are fitted exactly to the specific application at hand and possess the corresponding required material properties. It goes without saying that they also comply with FDA regulations.



Two- and three-way arc valves and pigging valves from LIAG®



LIAG® pigging valve

### Hygienic, low-maintenance and operationally safe

Arc valves are predestined for viscous and pasty media, but with pigging valves as well, no product remains in the valves during operation. The pig continually engages the entire inner pipe circumference. Depending on the medium, the pig either moves through the pipe along with the product flow or is helped along by compressed air or water. The pigging systems are designed to employ as few components and wear parts as possible and are constructed in a way that avoids dead pockets so that viscous liquids and pasty matter can be completely removed through cleaning and sterilization in place (CIP/SIP).

these material compounds are exceptionally chemical-resistant, which makes them interesting for the chemical industry and thus as components for the pigging valves and arc valves manufactured by Laeufer. Angst+Pfister stocks nearly 10,000 different O-rings in its product assortment, including even high-performance HITEC® O-rings in a range of different qualities and compliance certifications. That's especially important from Laeufer's perspective because the company often needs a wide array of different components only in small quantities but at short notice. In addition to offering a variety of country-specific compliance certifications, Angst+Pfister also continually ensures full product traceability.

### Continually high quality

For its valves, fittings and pigging systems, Laeufer occasionally requires special elements that are suitable, for example, for contact with a specific substance or for deployment at particularly high or low temperatures. At Laeufer and Angst+Pfister alike, continual development and expansion of the product offering is a never-ending process. Angst+Pfister proactively informs Laeufer about new items in its product range that could potentially be useful to the company. When proven and innovative solutions complement each other perfectly, the benefits are ultimately reaped by the users of Laeufer's products, who profit from a constant high level of quality.

### Superior diversity

Angst+Pfister supplies Laeufer with O-rings made from a wide range of different materials. Ethylene propylene diene monomer rubber (EPDM), for example, features good resistance against oxygen, ozone and thermal degradation. Fluorocarbon rubbers (FPM) are even better with regard to the aforementioned properties and are additionally extremely flame-resistant. All of the O-rings produced from

### Dependable and fast

For Laeufer International AG sales engineer Andreas Staerr, Angst+Pfister is a trusty supplier not just with regard to O-rings: "I value Angst+Pfister's expertise because we are in very good hands with the company both in terms of products and support service." And Laeufer considers it a big plus that its longstanding supply partner fulfills customer wishes not just reliably, but also quickly. If an urgent need for a specific plastic part suddenly arises, one phone call is generally all it takes to obtain it, oftentimes with next-day delivery.



HITEC® O-rings from Angst+Pfister

Your contact:  
 Manfred Rupflin  
 Angst+Pfister GmbH, 70565 Stuttgart, Germany  
 Telephone: +49 (0) 170 77 95 157  
 E-mail: manfred.rupflin@angst-pfister.com

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