

Fair announcement for the ACHEMA 2012 – LINNEMANN is presenting an extended service range

LINNE MANN GmbH is presenting components for process technology in plant production with an extended range of articles and service program. Tube connections and fittings as well as a wide range of stainless steel, aluminium, plastic and glass accessories will be explained by demo solutions structured according to areas of application, tasks and media.

- **Chemicals**
- **Vacuum**
- **Food**
- **Bulk materials**
- **Aseptics**

At the same time the revised catalogue to which the hose program has been added is being presented.



Chemicals

The wide range of media in the chemical industry demands an equally wide range of materials. In addition to reliably tight pipe connections, the sealing materials are also crucial for the process safety. High pressures with large pipe diameters require that pressure-tested clamping rings with safety locks offer sufficient safety reserves. Connecting systems with protected locking mechanisms are a big advantage for the necessary service work in order to stay fully functional under permanent stress from aggressive media.

Vacuum

In order for chemical-resistant vacuum systems to provide reliably stable suction performances, the pipe connections must guarantee long-term tightness even at high vacuum. Regardless of whether gaseous or liquid media are being transported. Stainless steel, aluminium or glass components are required depending on the medium. Metal hoses or hoses with reinforced support fabrics are

necessary for flexible connections. The use of disc or ball valves is necessary to suit the application. And, where very robust, corrosion-resistant vacuum gauges are necessary, the mechanically operating vacuum gauges used.

Food

Certificates of conformity are a prerequisite for the use of tube connections in the food production sector. Appropriate CE marking and FDA approvals are required both for the high grade steel components and for the seals. Originally developed for the dairy industry, milk pipe screwed connections in accordance with DIN 11851 have since become standard in many areas of the food industry as well as the beverages and brewing industry. Here, it is important to have a wide range of flange diameter sizes because many different tube diameters are often used in the plants.

Bulk materials

Conveying of bulk materials places high mechanical demands on pipe connections. Heavy-duty pipe couplings with safety clips have proven effective here. The connections must be able to withstand abrasive media in food or plastic processing for example and aggressive media in the chemical industry. High grade steel is therefore the most frequently used material.

Aseptics

Pipe connections for use under sterile conditions are only approved for plants in the pharmaceutical industry, food industry and cosmetic production as well as biotechnology when they meet the strict specifications of DIN 11864. Namely depending on the flange type in the variants „-1“ for screwed pipe connections and „-2“ for flanged connections as well as „-3“ for clamp connections.

Details of the Linnemann portfolio can be found under www.linnemann-online.de where graphics and product descriptions, structure and use are given in more detail.