

Better integration of efficient process water distribution

Water is an elementary component in many production processes. The various levels of required water quality ranges from pure water for processes in the food industry to ultrapure water for highly specialised procedures in the pharmaceutical industry.

LINNEMANN GmbH advises on the entire spectrum of applications, from water procurement through water supply and storage, all the way to water treatment and offers suitable fittings and pipe connections for the respective industrial processes. Typical applications also include the treatment, storage and distribution of water, e.g. in plants with membrane filtration, ion exchange systems or UV treatment plants.

LINNEMANN GmbH is an active member of the DIN standards committee NA 003-01-14-AA "Fittings for the Food Industry". This committee work serves as a basis for competent advice and service.

Compliant pipe connections offered include, for example, DIN 32676 for the food industry and the DIN 11864 series for sterile technology with DIN 11864-1 pipe screwed connections, DIN 11864-2 flange connections and DIN 11864-3 clamp connections.

Our own developments from decades of experience in plant construction are also available for use under vacuum or pressure, such as the FLY clamp connection which, with its metal transition, is practically seamless. This block clamp connection reduces impact on the chambered seal.

The effects of pressure surges or temperature fluctuations and abrasive media are therefore reduced. This results in a longer service life for the D-shaped seal, which only deforms to max. 20%.

A "tongue and groove" FLW clamp connection is provided for pipe diameters from DN 400 to DN 800. This is a flange connection with O-ring and clamping ring made of profile segments. Depending on the application, different flange profiles and clamping rings can be selected, even with locks.

Valves and fittings can be added to match the connections. Particularly suitable options include pinch valves made of plastic or stainless steel, or a pre-assembled flange connection depending on the specification.

The pinch valves are operated with compressed air. They are free of dead space and have a complete flow throughput regardless of the medium used.



A typical water treatment plant with various pipe connections, fittings and valves.



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Source: LINNEMANN

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