

## When you need to be quick: small flange connections – very fast and very reliable

**Faster and faster connections are wanted. But they also have to be reliable, frequently re-usable and, above all, tight! Tube connections in laboratories, in research and test installations or in process engineering are neuralgic points. This applies for gaseous and liquid media and especially in high vacuum technology. Practice-proven and mutually adapted systems comprising quick connectors and small flanges are a safe remedy here.**



The FL-Ultra clamping roller chain made of stainless high grade steel on equally stainless conical flanges is a reliable solution. The tube ends are placed against each other by hand after inserting a forced centring sealing ring. The clamping roller

chain can then simply be wrapped around the conical flange and closed by a strong hexagon socket head screw. The clamping rollers mounted on rotary bearings provide optimum force distribution at minimum frictional stress.

**The FL-Ultra clamping chain on a short small flange connection. Both for nominal sizes DN10 – DN50. Made completely from AISI304.**

Details of the FLY clamping connections can be found under [www.linnemann-online.de](http://www.linnemann-online.de) where graphics and product descriptions, structure and use are given in more detail.



The quick clamping ring FL-Rekord / System LINNEMANN with a clamping lever also ensures a very quick small flange connection. Especially suitable for small flange connections with elastomer seals and on narrow pipe and distribution systems.

With an integrated pre-tightening part, the clamping ring halves can be pulled up to the flange with forced centring and closed tightly with subsequent swinging of the lever. For clamping and releasing, the lever only has to be swung respectively in one plane at a radius of just 44 mm exclusively at the front section.

**The ring halves of the quick clamping ring FL-Rekord System LINNEMANN are made of surface finished aluminium**



**According to requirements, the KF small flange connection systems are offered in different material versions and combinations as well as with different clamping rings**

- Sizes: DN10 to DN50
- Flanges: High grade steel AISI304, AISI316L, borosilicate glass, quartz glass
- Centring rings: High grade steel AISI304, AISI316L, aluminium, PTFE
- O-rings: NBR, FKM, EPDM, 70° Shore
- Metal seal: Aluminium alloy
- Clamping rings: High grade steel AISI304, aluminium, plastic
- Pressure: High vacuum up to 1.5 bar overpressure