NEW





UNIQUE: ZEROCON®

The new connection system.

As tight as a weld seam.

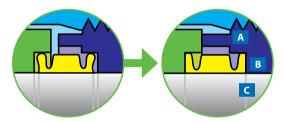


The advantages at a glance:

Completely leakproof (A)

Because the same material is used throughout, the connection is as tight as a weld seam (helium leak rate $\leq 10^{-13}$ mbar l/s)

No dead space (B) and perfect pharmaceutical barrier (C)



The seal ring adapts to fit perfectly when pressed in, ensuring complete sealing and no dead space

Robust connection

Suitable for applications involving high-pressure, critical vacuum and extreme temperature conditions

Dynamic stress resistance

Anti-twist locking and outward precision fit prevent negative impact of external forces and torques

Temperature and pressure stable

From-459 °F (- 273 °C) to +662 °F (+350 °C) up to 450 bar (6550 psi)

No flow disturbances

Highest surface quality

Ra \leq 15 µinch µm (0.4 µm), electropolished $\leq 10 \mu inch (0.25 \mu m)$

No outgassing of material

UNS S31603 (316L) / 1.4435

Easy installation

Self-centering, end stop and integrated leak test port

Maintenance-free

No seal replacement required unlike with soft seals

UNCOMPROMISING: ZEROCON®

The flexible solution for everyone who refuses to compromise on safety.

ZeroCon[®] is the simple and efficient solution if you want a new, built-to-last connection. It combines all the advantages of a detachable connection with those of a welded connection. For this reason, ZeroCon[®] can also be used in all areas of application and industries and is suitable for all applications. Try it for yourself and see.

| Advantages of the ZeroCon® connection | Semi- conductor | Pharma- ceutical | Fine chemicals |
|---|--------------------|---------------------|----------------|
| As tight as a weld seam | | | |
| No loss of medium/leakage of toxic media into the environment or contamination of the medium from outside | | | |
| Use in ultra-high vacuum applications | | | |
| Meets the highest purity standards | | | |
| 100% sterilizable, no deposits, films of bacteria or cultures | | | |
| Briefer flushing times | | | |
| No cavities for medium to collect in | | | |
| External forces and/or torques do not affect the connection | | | |
| Self-centering due to interlocking design | | | |
| No impairment of flow | | | |
| Turbulence-free | | | |
| Also suitable for high pressure systems | | | |
| No outgassing of material that can contaminate the process medium | | | |
| • Temperature-stable form -459 °F (- 273 °C) to +662 °F (+350 °C) | | | |
| Also sterilizable with superheated steam | | | |
| Much more resistant to aggressive media than soft seals media than soft seals | | | |
| Easy to switch to other sizes | | | |
| Clearly arranged, simplified product range (seal) | | | |
| Quick and easy to install and remove | | | |
| No risk of damage from excessive tightening torques | | | |
| Easy, rapid leak testing via test port | | | |
| Frequent reusability of flange and nut | | | |
| • No detachment of coatings possible and thus no possibility of contamination of medium | | | |
| Easy, unproblematic connection with further pipelines | | | |
| Maintenance-free | | | |

The modular design of the ZeroCon® connection means that there is nothing to stop you adding to or adapting the system at a later point. System maintenance, changes of size, and connection with further systems can be carried out rapidly, easily and cost efficient.



SIMPLE: DOCKWEILER

Get your stainless steel tube system well connected



CONNECTIONS IN ACCORDANCE WITH DIN 11864

Safety for detachable connections

Aseptic couplings with threaded, clamp or flange connections that comply with DIN 11864 are now the standard connections in tube systems for liquid media in the pharmaceutical industry and biotechnology. Dockweiler offers the components in this range of connections in various surface finishes to fit the tube system in question.

Material UNS S31603 (316L) / 1.4404 / 1.4435 Sizes Imperial, ISO, metric Surfaces Compliance with safetron and weldtron tube systems or ASME BPE

Applications

Transport, production and transfer to containers of liquid media in the biotechnology, pharmaceutical, food and cosmetics industries

Advantages of DIN 11864 connections

- Safe cleaning and sterilization
- Product safety due to tight tolerances
- Near-zero dead space
- Harmonized system



CLAMP CONNECTIONS

Dockweiler DIN 32676 clamp connections

Our clamp connections (connecting piece and cover) with standard clamp seal (flat seal with/without lip) are:

- Ready for orbital welding
- With stainless steel clamps in various designs, material 316L, ISO 9001 certified
- Quick and easy to fit

Material UNS S31603 (316L) / 1.4404 / 1.4435 Sizes Imperial, ISO, metric **Surfaces** Compliance with safetron and weldtron tube systems or ASME BPE

Applications

Transport, production and transfer to containers of liquid media in the biotechnology, pharmaceutical, food and cosmetics industries

Advantages of clamp connections

- Rapid opening and closing of connection
- Safe cleaning and sterilization
- Near-zero dead space



DOCKWEILER CAP

Dockweiler Cap

Today's end could be tomorrow's beginning.

The Dockweiler Cap is the smart, flexible way to seal off the ends of your tube installations. It is a new alternative to conventional weld caps.



ZEROCON[®]

ZeroCon®

The new, patented ZeroCon® connection from Dockconnection with that of a weld seam.

• Available as a complete kit or as individual components

Material UNS S31603 (316L) / 1.4404 / 1.4435 Imperial (1/4" to 6")Sizes Surfaces Inside: electropolished or

bright finish

Applications

Semiconductor industry Pharmaceutical industry (pressure testing of systems) Tank and apparatus construction

Advantages of Dockweiler Cap

- Safety seal (helium leak rate 1 x 10⁻⁹ mbar l/s)
- No contamination of system in event of interruption of assembly work (pressure testing)
- No particle contamination from later removal
- Can be extended subsequently, even in ultra-pure areas of production
- Time savings due to guick and easy installation

weiler combines all the advantages of a detachable

- Ready for orbital welding

Material UNS S31603 (316L) / 1.4435 Sizes Imperial (1/4" to 4"), ISO, metric **Surfaces** Inside: electropolished or

bright finish

Applications

Semiconductor industry Pharmaceutical and biotechnology industries

Advantages of ZeroCon®:

- Tight as a weld seam
- No dead space
- Temperature-stable
- 100% stainless steel
- Maintenance-free

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