



UNIQUE: ZEROCON®

The new connection system. As tight as a weld seam.

UNIQUE: ZEROCON[®]

The new connection system for those who demand the best

ZeroCon[®] is the new, patented, 100% stainless steel connection system for safe and rapid connection of tube systems. With ZeroCon[®] you make zero compromises!

The screwed ZeroCon[®] system comprises four components:



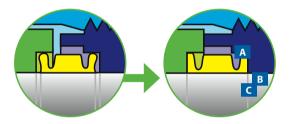




The advantages at a glance:

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 6550 psi (450 bar)

No flow disturbances

Highest surface quality Ra \leq 15 µinch µm (0.4 µm), electropolished \leq 10 µinch (0.25 µm)

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.

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 and connection with further systems can be carried out rapidly, easily and cost efficient.

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			



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
	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

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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.

Material Sizes Surfaces UNS S31603 (316L) / 1.4404 / 1.443 Imperial ($^{1}/_{4}$ " to 6") 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 quick and easy installation



ZEROCON®

ZeroCon®

The new, patented ZeroCon[®] connection from Dockweiler combines all the advantages of a detachable connection with that of a weld seam.

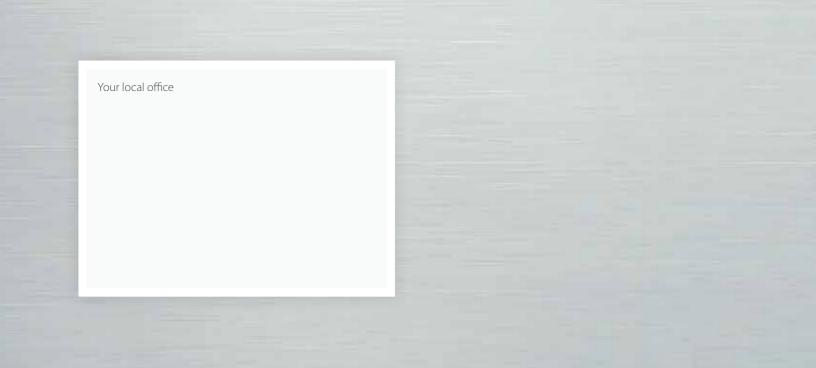
- Ready for orbital welding
- Available as a complete kit or as individual components

435	Material	UNS S31603 (316L) / 1.4435
	Sizes	Imperial: 1/4" to 4"
		ISO: 13,50 mm to 21,30 mm
		Metric: 6,00 mm to 23,00 mm
	Surfaces	Inside: electropolished or
		bright finish

ns) **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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