PRODUCTS AT A GLANCE

Stainless steel tube systems, tube connections, ball valves, manifolds, vessels, gaskets and customized solutions.
Specific surfaces for secure constructions: Dockweiler has many years of experience and competence in the field of surface optimization and finishing.

### Qualities pharmaceutical industry

<table>
<thead>
<tr>
<th>Surface Finish</th>
<th>Bright-Finish (SF1)</th>
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<tr>
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### Qualities semiconductor industry

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* Hygiene grade in accordance with DIN 11864 / DIN 11865 / DIN 11866. ** in accordance with ASME BPE. *** not defined, Ra 0.80 µm on request.

All pictures show the respective surfaces in a 380-fold magnification.

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**Dockweiler PRODUCTS**

**TUBES & FITTINGS**
- Standard, Coax and Connections
- Pharma Hoses and Corrugated Stainless Steel Hoses

**BUBBLER SYSTEMS**
- Bubblers and Accessories

**CUSTOMIZED SOLUTIONS**
- Manifolds, Vessels, and Custom Fittings

**COMPONENTS & VALVES**
- Ball Valves, Forging Tools, Gas Sticks, Presslok

**SERVICE**
- Cleanroom Engineering Support, EcoPurge, Containers on Trailer Platforms

**DOCUMENTATION & CERTIFICATES**
- Certified Manufacturing, WebCert, Customized Documentation

**QUALITIES AND SURFACES**

**Highest Standards When It Comes to Surface Quality and Purity**
Our tubes and fittings offer the highest standards of surface quality and purity, whether for the semiconductor, pharmaceutical, biotechnology, photovoltaics, or other high-tech industries.

**TUBES & FITTINGS**

**DOCKWEILER STANDARD**

**TUBES**
- For liquids
- For gases

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**Pipes**
- DN 6 to DN 20
  - (168,28 x 3,40 mm to 508,00 x 5,54 mm)

**Instrumentation tubing**
- 0,30 x 0,06 mm to 12,00 x 2,00 mm

**ELBOWS**
- Standard elbows: 45° / 90° / 180°
  - Special elbows: 30° / 60° / 88° / 92° / Point-of-Use

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**CAPS**
- With weld-on end
  - Dockweiler cap

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**SURFACES**
- Bright-finish, anodically cleaned, electropolished

**MATERIALS**
- 1.4404, 1.4435 (BN3), UNS S31603 (316L), UNS S30403 (304L), 1.4539

**QUALITIES**
- ■ ultron
- ■ puretron
- ■ finetron
- ■ TCC
- ■ VSR 80
- ■ weldtron
- ■ safetron
- ■ bpe-direct

**TUBES & FITTINGS**

**COAX**

The double-wall tube system from Dockweiler, consisting of an inner process tube and an outer safety tube, guarantees safe transport of explosive, toxic, and corrosive media.

**TUBES & FITTINGS**

**DOCKWEILER STANDARD**

**TUBES**
- For liquids
- For gases

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**SURFACES**
- Bright-finish, anodically cleaned, electropolished

**MATERIALS**
- 1.4404, 1.4435, UNS S31603 (316L)

**QUALITIES**
- ■ ultron
- ■ puretron
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**SURFACES**
- Bright-finish, anodically cleaned, electropolished

**MATERIALS**
- 1.4404, 1.4435, UNS S31603 (316L)

**QUALITIES**
- ■ COAX in accordance with process tube quality
- ■ ultron
- ■ puretron
- ■ finetron
- ■ TCC
- ■ TCC.1

**SLEEVEs**
- For connecting the coaxial components

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**TERMINATORS**
- For the transition from a coaxial system to a standard stainless steel tube system

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**PURGE TEES**
- T-piece with VCR connector
  - bulkhead purge tee

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**MATERIALS**
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**QUALITIES**
- ■ COAX in accordance with process tube quality
- ■ ultron
- ■ puretron
- ■ finetron
- ■ TCC
- ■ TCC.1
Different applications and media require their own particular connections. Dockweiler offers the ideal connection for every type of application.

**ZEROCON**
The unique threaded connection is as completely leakproof as a weld seam.

### CONNECTIONS IN ACCORDANCE WITH DIN 11864
Threaded tube connection / flange connection / clamp connection

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**CLAMP CONNECTION**
Standard: ferrules / caps / clamps / special ferrules with thread or hose connection / tank ferrules. Clamps with wing or hexagon screw / 3-segment clamp / high pressure clamp

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**GASKETS**
Cleaned and laser-marked in accordance with FDA requirements

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### MATERIALS
- **MVQ-1**: Platinum-cured silicone, braid-reinforced
- **MVQ-2**: Platinum-cured silicone, braid-reinforced with stainless steel wire reinforcement
- **EPDM**: Braid-reinforced, with stainless steel wire reinforcement, outside blue EPDM, inside food-grade white EPDM
- **PFA-1**: PFA liner (white), braid-reinforced with stainless steel wire reinforcement, outside platinum-cured silicone
- **PFA-2**: PFA liner (black), braid-reinforced with stainless steel wire reinforcement, fully electrically conductive

**Options**
- As connection options we offer TrIClamp connections, Aseptic connections, Welding ends or ZeroCon connection. Further connections on request.

**Surfaces**
- Bright finish, anodically cleaned, electropolished / ZeroCon: bright finish, electropolished

**Materials**
- 1.4404, 1.4435 (BN2), 1.4539, UNS S31603 (316L), UNS S30403 (304L) / Gaskets materials: EPDM, PTFE, Silicone

For the use in the semiconductor the fine chemical industry Dockweiler has developed flexible tube systems with a surface quality which meet highest requirements: electropolished stainless steel hoses.

**FLEXTRON**
Electropolished corrugated stainless steel hoses for the semiconductor industry and fine chemistry.

### Dimensions
- Corrugated hoses: DN 6, DN 10, DN 20
- System lengths: 6”, 12”, 24”, 36” (up to 60” on request)

**Options**
- As connection options we offer the corrugated hose with welding ends, VCR or ZeroCon connection.

**Surfaces**
- TCC cleaned, electropolished

**Materials**
- Corrugated hose: 1.4404 / UNS S31603 (316L), Braiding: 1.4401 / UNS S30403 (304L)
CUSTOMIZED SOLUTIONS
MANIFOLDS / VESSELS / CUSTOM FITTINGS

It all began with the advancement of orbital welding technology to meet the high standards required by the semiconductor industry. Today, the products manufactured by Dockweiler include manifolds with minimal dead space and in various designs – surfaces/purity – and with a range of different outlets.

MANIFOLDS
Dockweiler manufactures and supplies manifolds for UHP, PCW, and CFO5 applications for the semiconductor industry.

When manufacturing CIP lances and CIP rings for liquids, Dockweiler places emphasis on elimination of dead space and closely fitted outlets.

The tailored solutions we offer our customers lead to a shorter acceptance process when installing or cleaning.

VESSELS
Due to custom production with the elimination of dead space and optimized surfaces, Dockweiler offers its customers vessels that can be emptied completely.

Features
- Can be produced for a volume of up to 200 liters and a diameter of up to 508 mm (20”)
- CE certification for Categories I and II
- Pressure equipment in accordance with PED Category II (Pressure Equipment Directive)

CUSTOM FITTINGS
Standard fittings do not always fit the equipment. Dockweiler manufactures fittings individually to your specifications, adapting these for your particular application. Drawings and 3.1 documentation can also be provided upon request.

Examples:
- Excentric T-pieces, Y-pieces, elbows with customized angle measurements, thermowells

Vessels
Due to custom production with the elimination of dead space and optimized surfaces, Dockweiler offers its customers vessels that can be emptied completely.

Features
- Can be produced for a volume of up to 200 liters and a diameter of up to 508 mm (20”)
- CE certification for Categories I and II
- Pressure equipment in accordance with PED Category II (Pressure Equipment Directive)

Dimensions
- Imperial, ISO, Metric, in accordance with customer requirements

Surfaces
- Bright-finish, anodically cleaned, electropolished

Materials
- 1.4404, 1.4435 (BN2), 1.4306, 1.4307, UNS S31603 (316L), UNS S30403 (304L) / In addition to our standard materials, special materials such as Hastelloy can be used upon request.

Qualities
- ultron
- puretron
- finetron
- TCC
- VSR 80
- weldtron
- safetron
- bpe-direct

BUBBLER SYSTEMS
BUBBLERS / ACCESSORIES

Safety in stainless steel – Dockweiler bubblers are vessels for the transport and manufacture of organometallic compounds. Due to the sophisticated production method, electropolishing can be done after the last weld seam. This means that our bubbler can be used in critical areas of application.

SERIE HPL
Bubblers for liquids

Volume
- ca. 200 ml to 56 liters

Options
- Crossover and various other valves
- Level sensor

Approvals
- DOT and ADR

SERIE HPS
Bubblers for solids

Volume
- ca. 600 ml to 6 liters

Options
- Crossover and various other valves
- Level sensor

Approvals
- DOT and ADR

SERIE ECO
Bubblers for liquids with specially optimized components

Volume
- ca. 1.5 liters to 8 liters

Options
- -

Approvals
- DOT and ADR for ECO8000

ACCESSORIES
Heat exchanger system for bubbler temperature control

HE8002 Temperature control unit

Larger bubblers cannot be used in conventional temperature baths. Dockweiler offers the flexible HE8002 temperature control unit for this. This is connected and supplied via a pump to the supply, temperature, and control unit.

Supply, temperature, and control unit

In the sensitive production process, keeping the temperature of the medium constant is a must. To ensure a constant process temperature, Dockweiler offers a supply, temperature, and control unit. This ensures a constant and stable flow of gas.

Surfaces
- p = free of oil and grease / hp = electropolished
- uhp = electropolished (incl. the last weld seam)

Materials
- 1.4404, 1.4435 (BN2), UNS S31603 (316L)
- Other special materials such as UNS S30403 (304L), 904L, Hastelloy, or Monel available on request
Evans Components is one of the leading international manufacturers of innovative ball valves, purge gas distributors, and combination fittings for the semiconductor, microelectronics, and pharmaceutical industries. They are the ideal complement to the Dockweiler stainless steel tube systems.

**COMPONENTS AND VALVES**

**BALL VALVES / PURGE TOOLS / GAS STICKS / PRESSLOK**

Ball valves and mini ball valves for CFOS applications

**Dimensions**

*Imperial* 1/4" to 12" (6.35 mm to 304.80 mm)

*ISO and Metric* on request

Purge gas distributors

**Dimensions**

*Imperial* 1/2" to 4" (12.70 mm to 101.60 mm)

Gas sticks

Combination fitting of mini ball valve, regulator and pressure gauge

**Dimensions**

*Imperial* 1/4" to 1" (6.35 mm to 25.40 mm)

Presslok

Weld-free crimp connection for gas installations or cooling water systems

**Dimensions**

*Imperial* 1/2" to 4" (12.70 mm to 101.60 mm)

Ecopurge

The use of the innovative and patented purge dam EcoPurge reduces gas consumption. Schedule reduction is achieved with the EcoPurge since purge time is reduced due to the small trapped volume within the dam.

**Dimensions**

Available in 3", 4", 6" (tube size) and 6", 8", 10", 12" (pipe size)

**Cleanroom**

For semiconductor applications

Having installed a cleanroom, Dockweiler is able to weld, assemble, clean, and pack custom-manufactured products according to the strictest purity requirements.

**Features**

Cleanroom class ISO 4

Cleanroom size ca. 100 m²

**Engineering Support**

In close collaboration with the customer, Dockweiler draws on its many years of experience and motivated team of staff to create optimized products.

**Technical testing**

In addition to standard testing, Dockweiler offers a range of special tests for prefabrication. These include:

* Helium leak testing
* Dye penetrant testing
* Corrosion testing in accordance with ASTM G 61 (CPP)
* X-ray testing of weld seams
* Material hardness testing (Vickers)
* Pressure testing
* Cold stress bath (with liquid nitrogen) before dimensions check
* Water jacket test (DOT approval of bubblers)
* Microscope images (microsections and surface finish)
* PMI = positive material identification (X-ray fluorescence)
* Accuracy of dimensions of 3D geometries

**Swap Body**

Dockweiler offers containers and swap bodies for flexible storage on the construction site. The containers are equipped with metal racks and cantilever racks, each with five shelves, for safe storage of tubes and fittings. The swap bodies can, for example, be used in the execution of installation and production projects (skid production or system installation).

**Benefits**

The containers offer the following advantages:

* safe and manageable outside storage of materials
* storage capacity easily increased
* project materials stored separately from actual storage area
* no risk of confusing different materials in projects

**Measurements**

Length of swap body: 7.45 m
External height (standard): 2.70 m
Internal height: 2.48 m
Height of roll-up door: 2.25 m

**Materials**

UNS S31603 (316L), UNS S30403 (304L)

**Surfaces**

Bright-finish, electropolished

**Materials**

UNS S31603 (316L), UNS S30403 (304L)
CERTIFIED MANUFACTURING

Further certificates are available on our website:

www.dockweiler.com
Nowadays, for plant operators, documentation such as material inspection certificates is becoming increasingly more important and comprehensive. To support our customers in this development while also improving our service, we have set up a new certifications portal. The Dockweiler's WebCert portal offers the simple solution for everyone who manages their certifications digitally.

All required information can therefore be accessed extremely rapidly, leading to significant time savings. For further informations please visit our website at: www.dockweiler.com

**WEBCERT – ADVANTAGES**

- Irrespective of browser, documents can be accessed online from anywhere in the world.
- All documents for past deliveries are held in our archive for an unlimited period.
- The flexible search function allows you to enter several search parameters simultaneously.
- If you do not know the full details of a search parameter, you can search with asterisks.
- WebCert can display an initial preview of the document you are searching for.

**SPECIFIC BENEFITS**

- You can retrieve documents before the receipt of goods, that is, directly after dispatch of the consignment. As a result, you can assign the documents quickly and directly to the goods upon receipt.
- All required information can therefore be accessed extremely rapidly, leading to significant time savings.
- With no need to file these documents manually, your company's paper and printing costs are reduced.
- WebCert is continually updated with the newest solutions, ensuring it is always optimized and progressive.

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* on request

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