PRODUCTS AT A GLANCE

Stainless steel tube systems, tube connections, ball valves, laterals, vessels, gaskets and customized solutions.
QUALITIES AND SURFACES
HIGHEST STANDARDS WHEN IT COMES TO SURFACE QUALITY AND PURITY

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>1.0 μm</th>
<th>0.9 μm</th>
<th>0.8 μm</th>
<th>0.7 μm</th>
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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

Surface finish bright-finish | Surface finish anodically cleaned | Surface finish electropolished

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

**TUBES**

- **For liquids**
- **For gases**

**Dimensions**

<table>
<thead>
<tr>
<th>Imperial</th>
<th>ISO</th>
<th>Metric</th>
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<tbody>
<tr>
<td>1/4” to 6”</td>
<td>DN 8 to DN 100</td>
<td>DN 4 to DN 150</td>
</tr>
</tbody>
</table>

**Surfaces**

Bright-finish, anodically cleaned, electropolished

**Materials**

- UNS S31603 (316L), UNS S30403 (304L), 1.4404, 1.4435 (BN2), 1.4539

**Qualities**

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

**TUBES & FITTINGS**

**COAX**

- **For liquids**
- **For gases**

**Dimensions**

<table>
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</tbody>
</table>

**Surfaces**

Bright-finish, anodically cleaned, electropolished

**Materials**

- UNS S31603 (316L), 1.4404, 1.4435

**Qualities**

- COAX in accordance with process tube quality
- ultron
- finetron
- TCC
- TCC.1

**ELBOWS**

- Standard elbows: 45° / 90°

**Dimensions**

<table>
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</table>

**CAPS**

- With weld-on end Dockweiler cap

**Dimensions**

<table>
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**REDUCERS**

- Standard: concentric/excentric
- Special reducers: conc. with joint/exc. with joint

**Dimensions**

<table>
<thead>
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</tr>
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</tr>
</tbody>
</table>

**TERMINATORS**

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

**Dimensions**

<table>
<thead>
<tr>
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<th>ISO</th>
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</tbody>
</table>

**SLEEVES**

- For connecting the coaxial components

**Dimensions**

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<tr>
<th>Imperial</th>
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<td>DN 4 to DN 150</td>
</tr>
</tbody>
</table>

**T-PIECES**

- Standard: long or reduced branch
- Special T-pieces: 45° branch/excentric branch/Y-piece/T-piece with valve/thermowell

**Dimensions**

<table>
<thead>
<tr>
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<th>ISO</th>
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<tbody>
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</tr>
</tbody>
</table>

**Purge tees**

- T-piece with VCR connector
- bulkhead purge tee

**Dimensions**

<table>
<thead>
<tr>
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**Surfaces**

Bright-finish, anodically cleaned, electropolished

**Materials**

- UNS S31603 (316L), 1.4404, 1.4435

**Qualities**

- COAX in accordance with process tube quality
- ultron
- finetron
- TCC
- TCC.1
**TUBES & FITTINGS**

**CONNECTIONS**

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.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Imperial</th>
<th>ISO</th>
<th>Metric</th>
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<tbody>
<tr>
<td>1/4&quot; to 4&quot;</td>
<td>DN 8 to DN 80</td>
<td>DN 4 to DN 100</td>
<td>(0.250 in to 4.000 in)</td>
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**CLAMP CONNECTION**

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

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<th>Dimensions</th>
<th>Imperial</th>
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<tr>
<td>1/4&quot; to 6&quot;</td>
<td>DN 8 to DN 100</td>
<td>DN 4 to DN 150</td>
<td>(0.250 x 0.035 in to 6.000 x 0.109 in)</td>
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**GASKETS**

Cleaned and laser-marked in accordance with FDA requirements.

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<th>Dimensions</th>
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<td>(0.250 x 0.035 in to 6.000 x 0.109 in)</td>
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**CONNECTIONS IN ACCORDANCE WITH DIN 11864**

Threaded tube connection / flange connection / clamp connection.

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**PHARMA HOSES / CORRUGATED STAINLESS STEEL HOSES**

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 corrugated stainless steel hoses.

**FLEXTRON**

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

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Corrugated hoses</th>
<th>System lengths</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN 6, DIN 10, DIN 20</td>
<td>(including welding ends)</td>
<td>6&quot;, 12&quot;, 24&quot;, 36&quot; (up to 60&quot; on request)</td>
<td>As connection options we offer the corrugated hose with welding ends, VCR or ZeroCon connection.</td>
</tr>
</tbody>
</table>

**SURFACES**

TCC cleaned, electropolished.

**MATERIALS**

Corrugated hose: 1.4404 / UNS S31603 (316L), Braiding: 1.4301 / UNS S30403 (304L)

| MVQ-1 | Platinum-cured silicone, braid-reinforced |
| MVQ-2 | Platinum-cured silicone, braided 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 |

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 corrugated stainless steel hoses.

**OPTIONS**

As connection options we offer TriClamp connections, Aseptic connections, Welding ends or ZeroCon connection.

**SURFACES**

TCC cleaned, electropolished.

**MATERIALS**

Corrugated hose: 1.4404 / UNS S31603 (316L), Braiding: 1.4301 / UNS S30403 (304L)

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CUSTOMIZED SOLUTIONS
LATERALS / VESSELS / CUSTOM FITTINGS

LATERALS
Dockweiler manufactures and supplies laterals for UHP, PCW, and CFOS 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)

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

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

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 laterals with minimal dead space and in various designs – surfaces/purity – and with a range of different outlets.

BUBBLER SYSTEMS
BUBBLERS / ACCESSORIES

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
c. 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
UNS S31603 (316L), 1.4404, 1.4435 (BN2) Other special materials such as UNS S30403 (304L), 904L, Hastelloy, or Monel available on request

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.
Components and Valves

Ball Valves / Purge Tools / Gas Sticks / Presslok

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.

Ball Valves

Ball valves and mini ball valves for CFOS applications

Dimensions
- Imperial: ¼” to 12”
- ISO and Metric on request

Purge Tools

Purge gas distributors

Dimensions
- Imperial: ¼”
- Outlet ¼”

Gas Sticks

Combination fitting of mini ball valve, regulator and pressure gauge

GS / GM / GL series

Dimensions
- Imperial: ¼” to 1”

Presslok

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

Tubes and fittings from the PLT / PLHT series

Dimensions
- Imperial: ¼” to 4”

Surfaces
- Bright-finish, electropolished

Materials
- UNS 531603 (316L), UNS 530403 (304L)

Services

Cleanroom / Engineering Support / Ecopurge / Swap Body

Cleanroom

For semiconductor applications

Dockweiler is able to weld, assemble, clean, and pack custom-manufactured products according to the strictest purity requirements

Features
- Federal Standard Class 10
  Cleanroom size ca. 1080 ft²

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

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” (tubing size) and 6”, 8”, 10”, 12” (pipe size)
- Metric, ISO and JIS dimensions upon request

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: 25 ft
- External height (standard): 9 ft
- Internal height: 8 ft
- Height of roll-up door: 7.4 ft
DOCUMENTATION & CERTIFICATES

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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