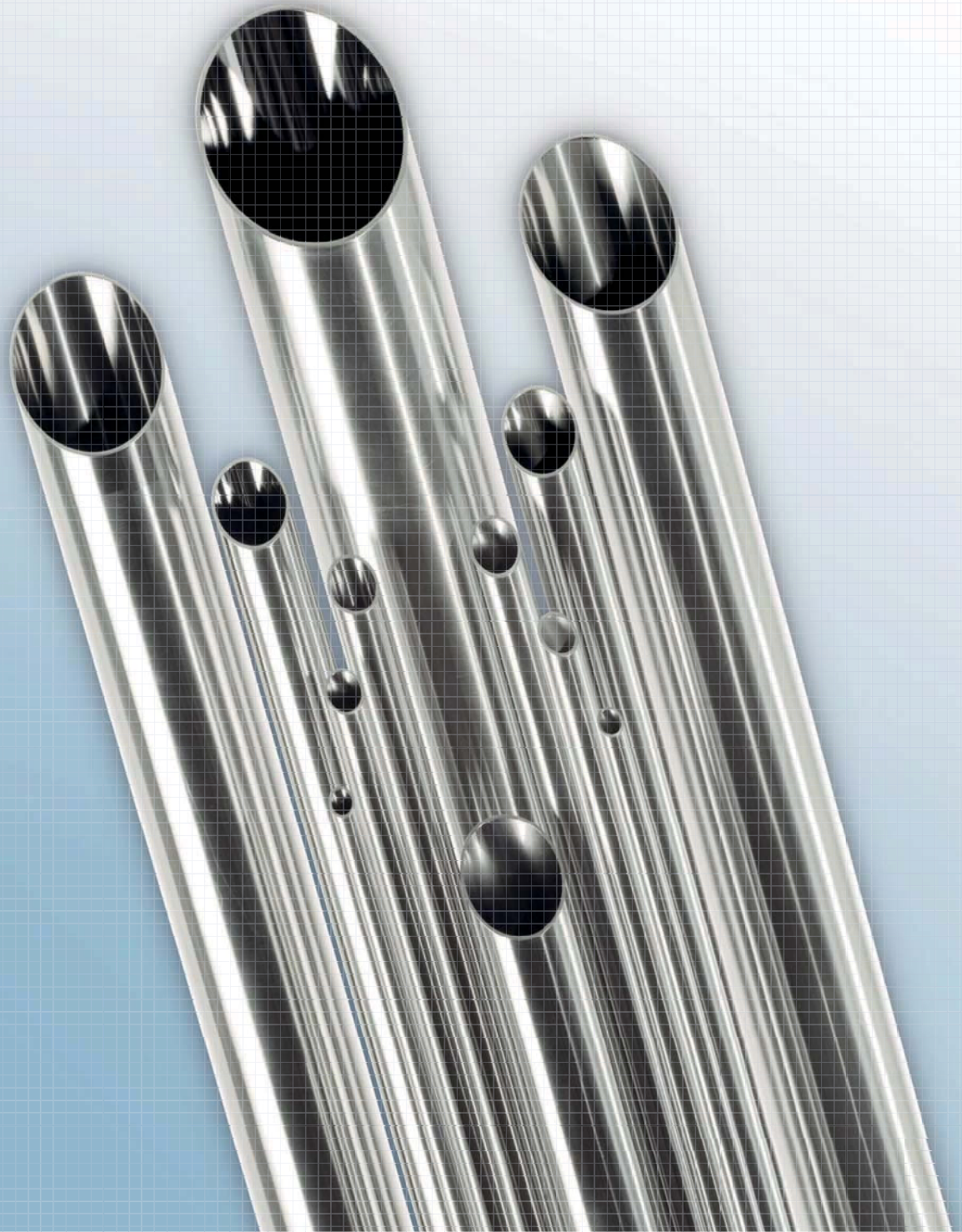


D-CKWEILER

TUBE SYSTEMS IN STAINLESS STEEL

OUR PRODUCTS

AT A GLANCE



TUBE SYSTEMS FOR FLUIDS

TUBE SYSTEMS	SHORT SPECIFICATION	TYPICAL APPLICATIONS
SAFETRON	Welded / seamless, Material: 1.4404 / 1.4435 / UNS S31603 (316L); 1.4539 / TP 904L Ra ≤ 0.40 µm (16 µin) bright finish Ra ≤ 0.25 µm (10 µin) e-polished	Pharmaceutical industry, biotechnology; production of parenterals, WFI and other aseptic or critical production processes
WELDTRON	Welded / seamless, Material: 1.4404 / 1.4435 / UNS S31603 (316L) Ra ≤ 0.80 µm (32 µin) bright finish Ra ≤ 0.60 µm (24 µin) e-polished	Pharmaceutical, cosmetics and food industries, biotechnology; among other things production of active ingredients, aseptic and sterile production processes, freeze-drying
DOCKWEILER BPE / BPE-DIRECT	Welded / seamless, Material: UNS S31603 (316L), table DT-3, Surface acc. to table SF2 (tubes) and table SF4 (fittings)	Biotechnology, pharmaceutical, cosmetics and food industries, production of parenterals, WFI, production of active ingredients (aseptic as well as sterile processes)



TUBE CONNECTIONS

PRODUCTS	SHORT SPECIFICATION	TYPICAL APPLICATIONS
DOCKWEILER CAP	Secure closure, orbital weld smart end cap or tube connection for continuation of tube installation, material: UNS S31603 (316L)	Semiconductor and pharmaceutical industries (pressure test), tank and apparatus building
CLAMP CONNECTIONS	Tube connection with flat gasket and clamp, surface quality in accordance with Dockweiler tube systems for fluids, also with blind caps	Detachable tube connections for the pharmaceutical, food and biotechnological industries
DIN 11864	Aseptic tube connections (clamp, screw and flange connection), surface according to tube system safetron, weldtron, ASME BPE	Detachable aseptic connections for the pharmaceutical, food and biotechnological industries



Dockweiler Cap



Clamp connections



DIN 11864

TUBE SYSTEMS FOR GASES

TUBE SYSTEMS	SHORT SPECIFICATION	TYPICAL APPLICATIONS
ULTRON	Seamless / welded, Material: 1.4404 / 1.4435 / UNS S31603 (316L), e-polished, Ra ≤ 0.25 µm (10 µin), (Ra ≤ 0.13 µm (5 µin) and Ra ≤ 0.18 µm (7 µin) on request), cleanroom packed	Semiconductor industry, LED, LCD, photovoltaics, transport of UHP gases and solvents; engine testing
FINETRON/ FINETRON.1	Seamless / welded, Material: 1.4404 / 1.4435 / UNS S31603 (316L), finetron: bright finish finetron.1: anodic clean OD ≤ 63.50 mm Ra ≤ 0.40 µm (16 µin) OD > 63.50 mm Ra ≤ 0.60 µm (24 µin)	Semiconductor industry, LED, LCD, photovoltaics, analytics, transport of HP and P gases as well as inerting and blanketing in the biotechnological, the pharmaceutical and the food industry
TCC / TCC.1	Seamless / welded, Material: 1.4404 / 1.4435 / UNS S31603 (316L), TCC: bright finish TCC.1: anodic clean, Ra not defined, Ra ≤ 0.80 µm (32 µin) on request	Semiconductor industry, photovoltaics, analytics, engine testing; transport of HP and P gases, inerting and blanketing in the biotechnological, the pharmaceutical and the food industry
TCC 304L / TCC.1 304L	Seamless / welded, Material: UNS S30403 (304L) and fittings in UNS S31603 (316L) TCC 304L: bright finish, TCC.1 304L: anodic cleaned, Ra not defined, Ra ≤ 0,80 µm (32 µin) on request, Components: Evans Pressfit system and fittings for orbital welding	Standard applications in the semiconductor and photovoltaic industries; slurry, cooling water
COAX	Seamless / welded, from the Dockweiler product programme, Material: 1.4404 /1.4435 / UNS S31603 (316L), Ra for the process tube depending on product specification	Semiconductor industry, LED, LCD; transport of hazardous gases and fluids
VSR80	Seamless, Material: 1.4404 / UNS S31603 (316L), Hardness: 70-90 HRB, without fittings	Analytics, standard applications, for leak-proof, detachable screwed connections, among others



EVANS PRODUCTS

PRODUCTS	SHORT SPECIFICATION	TYPICAL APPLICATIONS
BALL VALVES	Material: UNS S31603 (316L), UNS S30403 (304L), surface specification and installation modification according to customer requirements	Semiconductor industry, photovoltaics; different systems for HP gases and process cooling water
MINI BALL VALVES	Material: UNS S31603 (316L), surface specifications and installation modification according to customer requirements	Inert bulk gas distribution, process vacuum exhaust systems for the semiconductor industry, measurement devices and laboratory systems
PURGE TOOL	Cleaned for the application of oxygen, helium leak test, UHP diaphragm valve (among other things)	A compact regulator to distribute purge gases (on request with pressure control) for high-purity welding and testing in semiconductor applications
GAS STICKS	One-piece component of a pressure gauge, filter and pressure regulator and shut-off valve	Different components for gas supply in the semiconductor and photovoltaic industries
WATER STICKS	Nickel plated forged brass body, display: stainless steel	Components for process and cooling water systems in the semiconductor and photovoltaic industries
PLHT- PRESSFIT SYSTEM	The system consists of tubes Dockweiler TCC 304L as well as press-fittings and the Pressfit tool	A weld free method for constructing CFOS grade 304L tube size systems for CDA, GN2, Ar, Vacuum Exhaust, and other inert gas systems



Ball valves



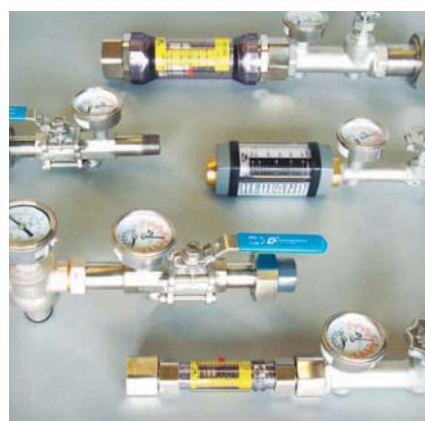
Mini ball valves



Purge tool



Gas Sticks



Water Sticks



Pressfits

CUSTOMISED MANUFACTURING

PRODUCTS	SHORT SPECIFICATION	CHARACTERISTICS / ADVANTAGES
MANIFOLDS/ LATERALS FOR GASES	Special design according to customer drawings, material and surfaces acc. to Dockweiler specification or customer requirements, other alloys, e.g. C-22 on request	Prefabrication of components: with different branches (e.g. Evans ball valves), minimisation of the number of weld seams, reduction in installation times, controlled surfaces, e.g. electropolishing after the final weld (cleanroom), Helium leak test, pressure test, complete documentation
MANIFOLDS FOR FLUIDS	Special design according to customer drawings, material and surfaces according to Dockweiler specifications or customer requirements, other alloys, e.g. C-22 on request	Pre-fabrication of components: minimisation of dead space and the number of weld seams. Reduction in installation times., controlled surfaces, extra tests, e.g. pressure tests, complete documentation
CIP LANCES AND RINGS	Special design according to customer drawings, material and surfaces according to Dockweiler specifications or customer requirements, other alloys, e.g. C-22 on request	Biotechnology, pharma, food and cosmetics industries, CIP cleaning, lyophilisation

CONTAINER AND COMPONENTS

PRODUCTS	SHORT SPECIFICATION	TYPICAL APPLICATIONS
BUBBLER (CONTAINER)	Material: UNS S31603 (316L), inner surface according to Dockweiler or customer specification, valves according to customer requirements, return and reuse is possible	Epitaxy; container for toxic, pyrophoric or corrosive media for transport and production
THERMOWELLS	customized fitting with inlet for the measurement tool, e.g. temperature, can also be produced to customer drawings	For all production areas in the pharmaceutical, food and chemical industry
SPECIAL FITTINGS	Special fabrications to customer requirements respectively drawings, for various geometric shapes, even three-dimensional fabrication is possible	For all production areas in the pharmaceutical, food, semiconductor and chemical industry, photovoltaic



Manifolds /
laterals for gases



Manifolds
for fluids



CIP-Ring



Thermowells



Special fittings



Bubbler
(Container)

DOCKWEILER NON METALLIC

PRODUCTS	SHORT SPECIFICATION	TYPICAL APPLICATIONS
GASKET PROGRAMME	Standard (USP Class VI), Tuf Flex, Tuf Steel material: among others EPDM, silicone, PTFE; marked and cleaned	Permanent marking to ensure traceability for critical processes. Biotechnological, pharmaceutical, food, cosmetics and chemical industry
HOSES SYSTEMS	Material: silicone, EPDM, PTFE, fabric or wire reinforced	Special hoses system for all production areas in the pharmaceutical, food and chemical industry as well as semiconductor industry and photovoltaic



Gasket programme



Hoses systems

DOCKWEILER – COMPETENCE IN STAINLESS STEEL

The Dockweiler Group has grown from a well known supplier of stainless steel tubes to an acknowledged system specialist with an ultra-modern production site. Over the past years the company has developed considerable technical know how as well as profound engineering competence of prefabrications and optimisation of equipment components, especially in the field of pure and ultra-pure production processes. Today every tenth employee is working in our quality management.

Facts and Figures

- Family owned business with head quarter in Germany
- Electropolishing capacity in Germany, Sweden and Thailand
- 7 Dockweiler companies in Europe
- qualified distributors in a further 30 countries
- 350 employees worldwide

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