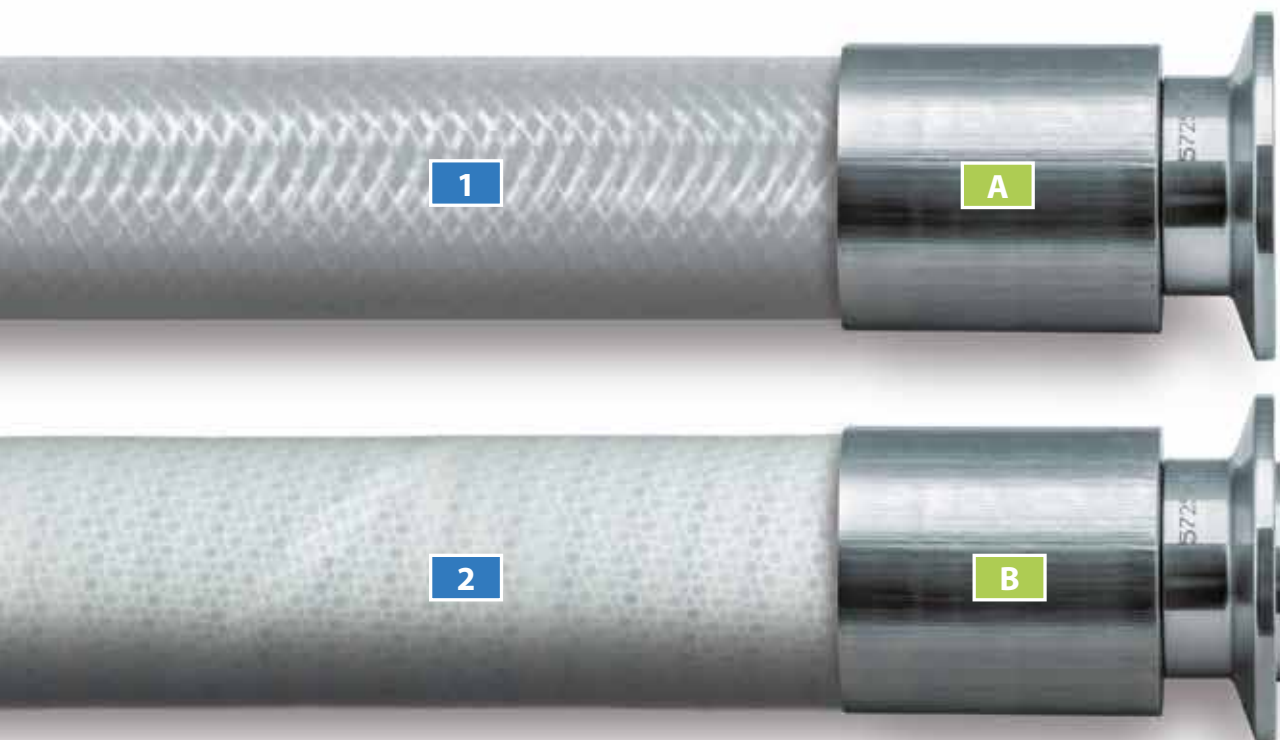


PHARMACEUTICAL HOSES

IN SILICONE, EPDM AND PTFE





Connect the way you want: The flexible Dockweiler connection that connects seamlessly

As a manufacturer of high purity stainless steel tube systems, Dockweiler has been familiar with the requirements of the pharmaceutical industry for decades. Having added a new range of elastomeric and thermoplastic hoses, we are now able to offer our customers complete hose systems as a one-stop provider. As always, these products meet the well known Dockweiler quality standards.

The advantages at a glance:

- Dockweiler supplies all hose systems as a one-stop provider, ensuring that your particular system is optimally configured.
- All hoses and fittings are made of high-quality materials.
- Full traceability across all stages of manufacture.
- High quality crimping that minimizes gaps.
- The hoses are freely configurable, i.e. the fittings can be combined with the hoses as desired.
- Fast processing and delivery.
- Optional: PolyFlow PTR hoses crimped without dead space - no gap up to the seal.



Available hose types


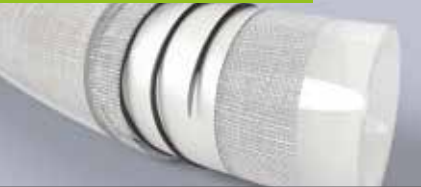



- 1 PolyFlow ST** – Platinum-cured silicone, braid-reinforced
- 2 PolyFlow STR** – Platinum-cured silicone, braid-reinforced with stainless steel wire reinforcement
- 3 Polyflow ETR** –Braid-reinforced and with stainless steel wire reinforcement, outside blue EPDM, inside food grade white EPDM
- 4 PolyFlow PTR OHM** – Black, electrically conductive PTFE (Teflon®) inside, EPDM, fabric and >1» also stainless steel wire reinforced outside
- 5 PolyFlow PTR** – Inside white PTFE (Teflon®), outside EPDM, reinforced with fabric and >1 also with stainless steel wire

Available connections

- A TriClamp connections** in accordance with DIN 32676 and ASME BPE 2016
Materials: 1.4404 / UNS S31603 (316L), optionally 1.4435 / UNS S31603 (316L)
- B Aseptic connections** in accordance with DIN 11864 Form A, all versions. Material: 1.4435 / UNS S31603 (316L)
- C Welding ends** for orbital welding. Material: 1.4435 / UNS S31603 (316L)
- D ZeroCon connection with no dead space** Material: 1.4435 / UNS S31603 (316L)
- E Further connections** on request

Inner surface roughness $\leq 0.8\mu\text{m}$, also lower on request and with electropolished surface

Quality and flexibility: Dockweiler hoses at a glance

<div><div>PolyFlow ST</div><div>Platinum-cured silicone, braid-reinforced</div></div>	<div><div>Construction</div><div>Outside and inside consisting of high purity silicone. High heat resistant textile insert.</div></div> <div><div>Applications</div><div>Suitable for pharmaceutical, biotech, cosmetic, and food applications, even at high temperatures (injection products, blood plasma, high purity water, and liquid food-stuffs). Not suitable for vacuum applications.</div></div>	<div><div>Available sizes</div><div>1/4" - 1", other dimensions on request</div></div> <div><div>Maximum length</div><div>25 m, from a diameter of 25 mm 10 m only</div></div> <div><div>min. Bending radius</div><div>40 mm (1/4") - 120 mm (1")</div></div> <div><div>Temperature range</div><div>- 60° to + 180°C</div></div> <div><div>Working pressure</div><div>6.0 bar (1/4") - 2.5 bar (1")</div></div>	<div><div>Cleaning options</div><div>Sterilizable with steam (40 min, 3 bar at 124°C) or radiation, autoclavable</div></div> <div><div>Conformity</div><div>FDA 21 CFR - 177 2600, BgVV Type II, USP class VI, USP Physicochemical 661, Cytotoxicity, Hemolysis, European Pharmacopoeia 3.1.9.</div></div>
<div><div>PolyFlow STR</div><div>Platinum cured silicone, braid-reinforced and with stainless steel wire reinforcement</div></div>	<div><div>Construction</div><div>Exterior and interior made of translucent, phthalate-free silicone, platinum cured. High-heat resistant textile insert, reinforced with stainless steel wire reinforced.</div></div> <div><div>Applications</div><div>Suitable for pharmaceutical, biotech, cosmetic, and food applications even at high temperatures (injection products, blood plasma, high purity water, and liquid food-stuffs).</div></div>	<div><div>Available sizes</div><div>1/2" - 2", other dimensions on request</div></div> <div><div>Maximum length</div><div>40 m</div></div> <div><div>min. Bending radius</div><div>60 mm (1/2") - 210 mm (2")</div></div> <div><div>Temperature range</div><div>- 60° to + 200°C</div></div> <div><div>Working pressure</div><div>15 bar (1/4") - 4 bar (3")</div></div>	<div><div>Cleaning options</div><div>Sterilizable with steam (18 min. at 135°C) or radiation, autoclavable</div></div> <div><div>Conformity</div><div>FDA 21 CFR - 177 2600, USP Klasse VI, 3-A Sanitary Standard, EC 1935/2004, EC 2023/2006, DM21/03/1973, BfR XV and XXI cat.2, ISO 10993-8, -10 and -11</div></div>
<div><div>PolyFlow ETR</div><div>Braid-reinforced with stainless steel wire reinforcement, blue EPDM, food grade white EPDM inside.</div></div>	<div><div>Construction</div><div>Inside white food grade EPDM, outside blue EPDM plastic, fabric and stainless steel wire reinforced</div></div> <div><div>Applications</div><div>All food applications, including in the high temperature range</div></div>	<div><div>Available sizes</div><div>3/4" - 2", other dimensions on request</div></div> <div><div>Maximum length</div><div>40 m</div></div> <div><div>min. Bending radius</div><div>120 mm (3/4") - 300 mm (2")</div></div> <div><div>Temperature range</div><div>- 30° to + 120°C</div></div> <div><div>Working pressure</div><div>6.5 bar (1/4") - 4.0 bar (2")</div></div>	<div><div>Cleaning options</div><div>Sterilizable with steam (40 min. 3 bar at 124°C) or radiation, autoclavable</div></div> <div><div>Conformity</div><div>FDA 21CFR - 177 2600, BGVV Type II, USP Physicochemical 661</div></div>
<div><div>PolyFlow PTR OHM</div><div>FLARED</div><div>ELAFLEX</div><div>Black, electrically conductive PTFE (Teflon®) inside, EPDM outside, braid with stainless steel wire reinforcement</div></div>	<div><div>Construction</div><div>Electrically conductive ,Ω/T' with light gray outer layer. Inside black PTFE (Teflon®), firmly bonded to pressure carrier, outside EPDM, fabric and >1" also stainless steel wire reinforced</div></div> <div><div>Applications</div><div>Suitable for transporting food, chemical, cosmetic, pharmaceutical, and biotech products. Excellent thermal properties, even with very aggressive media. Avoids risk of degradation and product contamination. Dead space free flared version for applications with highest cleanliness requirements.</div></div>	<div><div>Available sizes</div><div>1/2" - 2"</div></div> <div><div>Maximum length</div><div>40 m</div></div> <div><div>min. Bending radius</div><div>110 mm (1/2") - 210 mm (2")</div></div> <div><div>Temperature range</div><div>- 30° to + 150°C</div></div> <div><div>Working pressure</div><div>16 bar (1/2" - 2")</div></div>	<div><div>Cleaning options</div><div>Sterilizable with steam (30 min. at 130°C), autoclavable</div></div> <div><div>Conformity</div><div>FDA 21 CFR - 155 1550, USP Klasse VI, BFR XXI, EC 10/2011, 1282/2011, 1183/2011, 202/2014, 1935/2004, 2023/2006, Bed.Ggst V, 24.6.2013, LFGB</div></div>
<div><div>PolyFlow PTR</div><div>FLARED</div><div>ELAFLEX</div><div>Inside white PTFE (Teflon®), outside EPDM, fabric with stainless steel wire reinforcement</div></div>	<div><div>Construction</div><div>Inside white PTFE (Teflon®), firmly bound to pressure carrier, outside EPDM, fabric- and >1" also stainless steel wire reinforced</div></div> <div><div>Applications</div><div>For food, chemical, cosmetic, pharmaceutical, biotechnological products. Excellent thermal properties, even for very aggressive media. Avoids risk of degradation and product contamination. - Dead space free flared version for applications with highest cleanliness requirements.</div></div>	<div><div>Available sizes</div><div>1/2"- 2"</div></div> <div><div>Maximum length</div><div>40 m</div></div> <div><div>min. Bending radius</div><div>110 mm (1/2") - 210 mm (2")</div></div> <div><div>Temperature range</div><div>- 30° to + 150°C</div></div> <div><div>Working pressure</div><div>16 bar (1/2" - 2")</div></div>	<div><div>Cleaning options</div><div>Sterilizable with steam (30 min. at 130°C), autoclavable</div></div> <div><div>Conformity</div><div>FDA 21 CFR - 155 1550, USP Klasse VI, BFR XXI, EC 10/2011, 1282/2011, 1183/2011, 202/2014, 1935/2004, 2023/2006, Bed.Ggst V, 24.6.2013, LFGB</div></div>

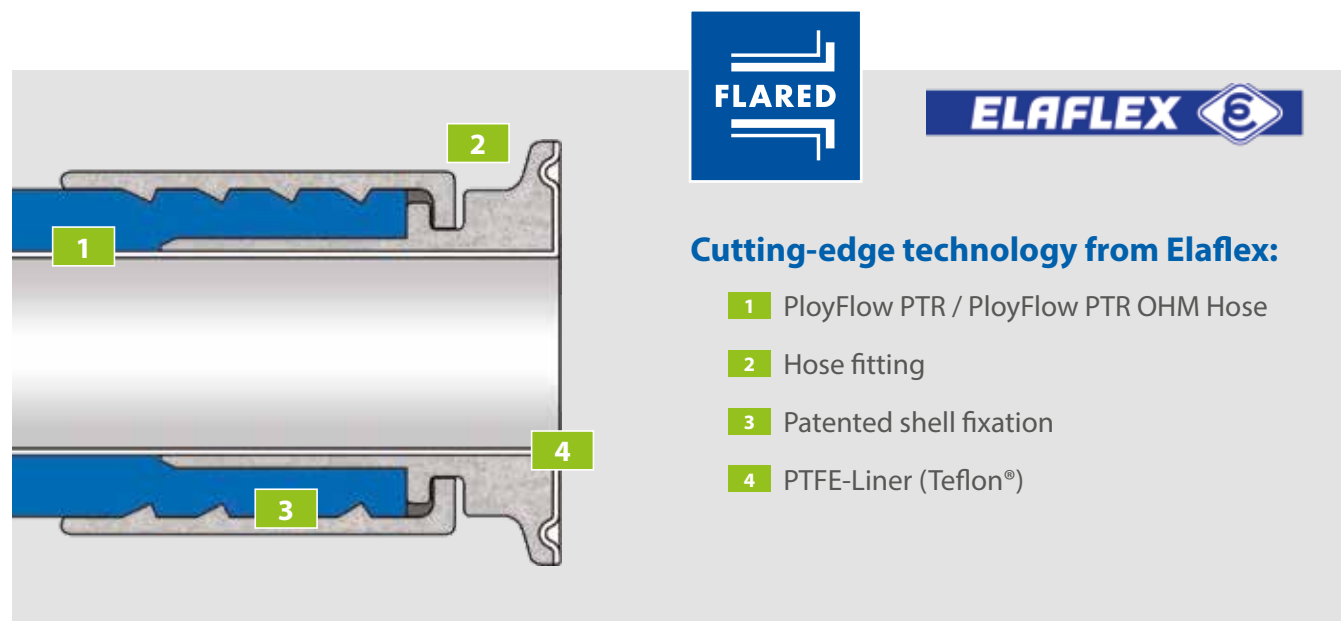
Gap-free due to specially pressed hose fitting

ELAFLEX technology for highest purity

For high-purity applications in the pharmaceutical industry and biotechnology, we offer PolyFlow-PTR „FLARED“ and PolyFlow-PTR OHM „FLARED“ tubing with ELAFLEX technology – a specially swaged tubing fitting with a flanged PTFE liner.

The homogeneous elastomer hose construction with smooth PTFE liner (Teflon®) is designed to meet the highest demands for cleanliness, hygiene and easy cleaning. The connection fitting has no contact with the medium, as the special compression allows no gap or dead space up to the seal. Each pressed stainless steel hose fitting has a corresponding marking.

The hoses can be cleaned quickly and easily. This saves time and costs.



“Connecting Flow to Purity” – for more than 60 years

Dockweiler has been a leading manufacturer of stainless steel tube systems for over 60 years. The company is known worldwide for the highest quality: in our tubing systems, in our advice and in our service.

With the same claim, Dockweiler now also offers plastic tubing for the pharmaceutical industry and biotechnology.



Cutting-edge technology from Elaflex:
The specially pressed hose fitting with flanged PTFE liner «FLARED» is completely free of dead space.

Easy cleaning and fast residual emptying
save time and costs.



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