STAUFF Connect

Tube Connectors

Assembly Tools and Devices

Product Overview
STAUFF Connect
The STAUFF Connect product group is closely aligned with the market requirements and contains an extensive range of tube connectors made of carbon steel for metric tubes with outer diameters ranging from 4 to 42 mm in accordance with ISO 8434-1 / DIN 2353:

- 24° cutting ring fittings
- 24° taper fittings with O-ring
- 24° weld cones with O-ring
- 37° flared tube fittings

The product range is completed by check and alternating valves for inline installation, thread reducers as well as blanking plugs and screws.

Special product types and sizes as well as alternative materials, material combinations and surface coatings deviating from the standards can be supplied on request.

Automated assembly machinery and hardened, wear-resistant tools enable the reliable assembly of tube connectors – both for series production in the workshop and on-site.

Because of its versatility and flexibility, the patented STAUFF Form tube forming system is undoubtedly the best solution for series production, in particular for applications with highest requirements with regards to safety, reliability and repeatability as well as process stability.

For the finishing of the tube connector range in carbon steel, STAUFF relies on the STAUFF Zinc/Nickel surface coating which has proven successful for many years. It provides reliable surface protection – even after transport, handling and assembly – and meets all current legal requirements.

For selected types and series, independent certificates and approvals can be provided:

- Bureau Veritas
- DNV GL
- Lloyd's Register
- Russian Maritimes Register of Shipping

STAUFF Connect
STAUFF Zinc/Nickel Coating

With at least 1200 hours resistance against red rust, the STAUFF Zinc/Nickel surface coating offers excellent surface protection – even after transport, handling and assembly. This was confirmed by testing in the salt-spray chamber according to DIN EN ISO 9227.

Users across all industries and applications benefit from sophisticated technology, which has been developed for and used by the very demanding automotive industry for many years now and that is already the proven standard for a large proportion of STAUFF components since 2007.

- At least 1200 hours resistance to red rust / base metal corrosion under practical conditions in the salt-spray chamber according to DIN EN ISO 9227
- White rust occurs only by way of a slight grey haze
- Surpassing the requirements of the corrosion protection class K5 as defined by the VDMA, the German Engineering Association (360 hours resistance to white rust / 720 hours resistance to red rust)
- Free of hexavalent chrome Cr(VI)
- ELV compliant according to 2000/53/EC (End of Life Vehicles Directive)
- REACH compliant according to 1907/2006/EC (Registration, Evaluation, Authorisation and Restriction of Chemicals)
- RoHS compliant according to 2002/95/EC (Restrictions of the Use of Hazardous Substances)
- Appealing colour scheme with a bright semi-gloss surface finish – comparable to Stainless Steel
- Significantly reduced tendency to corrosion by contact with other metals (such as Aluminium and Stainless Steel)
- Improved abrasion resistance due to the ductility / plastic deformability of the coating
- Little to no risk of triggering allergies – nickel release is down to only a fraction of the statutory limits relating to objects which come into direct and prolonged contact with the skin (independent results of the reference test method according DIN EN 1811 are available on request)
- Free of hexavalent chrome Cr(VI)
- ELV compliant according to 2000/53/EC (End of Life Vehicles Directive)
- REACH compliant according to 1907/2006/EC (Registration, Evaluation, Authorisation and Restriction of Chemicals)
- RoHS compliant according to 2002/95/EC (Restrictions of the Use of Hazardous Substances)
- Good paint adhesion properties
- Resistance against all commonly used hydraulic media
Tube Connectors and Accessories

- Cutting Ring
  Type FI-DS

- Soft-Sealing Cutting Ring
  Type FI-WDDS

- Support Sleeve
  Type FI-VH

- STAUFF Form Adaptor Ring
  Type FI-AR

- Union Nut
  Type FI-M

- 37° Flared Tube Fitting Set
  Type FI-AB

- Straight Male Stud Fitting
  Type FI-GE

- Male Stud Elbow
  Type FI-WE

- Male Stud Branch Tee
  Type FI-TE

- Male Stud Barrel Tee
  Type FI-LE

- Straight Union
  Type FI-G

- Straight Reducer
  Type FI-G

- Equal Elbow
  Type FI-W

- Equal Tee
  Type FI-T

- Tee Reducer
  Type FI-T

- Equal Cross
  Type FI-K

- Straight Bulkhead Fitting
  Type FI-GS

- Elbow Bulkhead Fitting
  Type FI-WS

- Straight Bulkhead Weld Fitting
  Type FI-ES

- Straight Weld Fitting
  Type FI-AS

- Elbow Weld Fitting
  Type FI-WAS

- 24° Weld Cone with O-Ring
  Type FI-SN

- 24° Weld Cone Reducer with O-Ring
  Type FI-SNR

- Straight Weld Fitting for Tubes
  Type FI-ASV

- Straight Female Stud Fitting
  Type FI-GA

- Gauge Fitting
  Type FI-MA

- Gauge Fitting with 24° Taper / O-Ring
  Type FI-EMAD

- Gauge Standpipe Fitting
  Type FI-EMA

- Straight Male Stud Fitting with 24° Taper / O-Ring
  Type FI-EGED

- Straight Fitting with 24° Taper / O-Ring
  Type FI-SNV

- Straight Reducer with 24° Taper / O-Ring
  Type FI-SNV

- Adjustable Elbow (90°)
  Type FI-EWD (90°)

- Adjustable Branch Tee
  with 24° Taper / O-Ring
  Type FI-ETD

- Adjustable Barrel Tee
  with 24° Taper / O-Ring
  Type FI-ELD

- Adjustable Elbow
  Type FI-REDSD (for Tube Ends)
Overview of Tube Connection Systems

24° Tube Connectors
- with Single / Double Edge Cutting Ring

24° Tube Connectors
- with Soft-Sealing Cutting Ring

24° Tube Connectors
- with Weld Cones

STAUFF Form Tube Forming System

37° Flared Tube Connectors

Tube Connectors
- with 24° Taper / O-Ring (DKO)
STAUFF Connect

Assembly Tools and Devices

STAUFF Form Tube Forming Machine
Type SFO-F

STAUFF Form Tube Forming System

Cutting Ring Pre-Assembly and Final Assembly Machine with Automatic Pressure Setting
Type SPR-PRC-POC

Portable Cutting Ring Assembly Machine with Manual Pressure Setting
Type SPR-PRC-SET

Combined Cutting Ring Pre-Assembly and 37° Flaring Machine with Automatic / Manual Pressure Setting
Type SPR-PRC-MA

Assembly Stud for the Manual Cutting Ring Assembly
Type FI-FK / FI-VK

Thread Identification Board
Type FI-TIB

www.stauffconnect.com
STAUFF products and services are globally available through wholly-owned subsidiaries and a tight network of authorized distributors and representatives in all major industrial regions of the world.

You can find detailed contact information at www.stauff.com