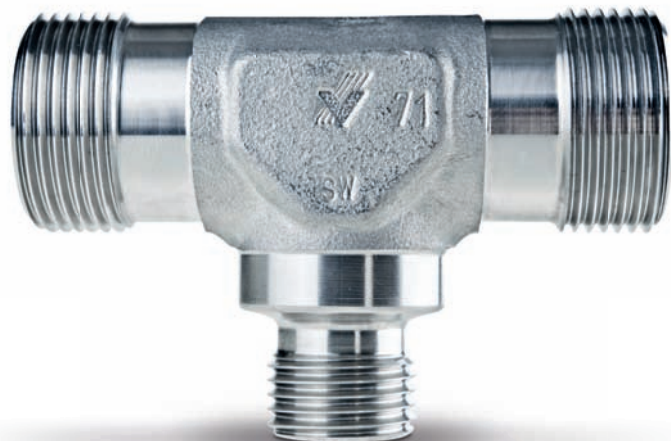




**Make better connections!**



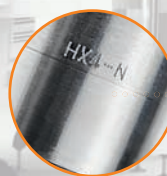


**We've got everything you need.  
What we don't have, we can make for you.**

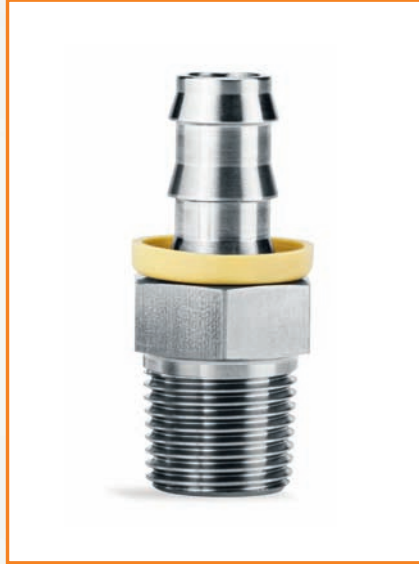


**» 100% traceability  
is second nature to us.«**

For our stainless steel connectors and hoesetails, we offer 100% traceability back to the smelting oven. That is why upon customer request we are the only manufacturer in Germany capable of providing a 3.1 certificate along with all of our products, even warehouse parts, without delivery delay. This provides you the added assurance that the connector elements you use have been produced according to the highest standards.



**Volz. Made in Germany.**



## High quality and safe: our stainless steel range

**Hosetails, ferrules and adapters, as well as  
24° DIN tube couplings and 37° JIC connectors**

- Compatible with many brands of hoses
- Certified by DNV, Lloyds, Bureau Veritas and others
- Large portfolio in stock
- Special parts deliverable at short notice thanks to in-house production »Made in Germany«
- 3.1 certificate – 100% Batch traceability
- 1.4571 / 316Ti – top quality stainless steel for optimum performance

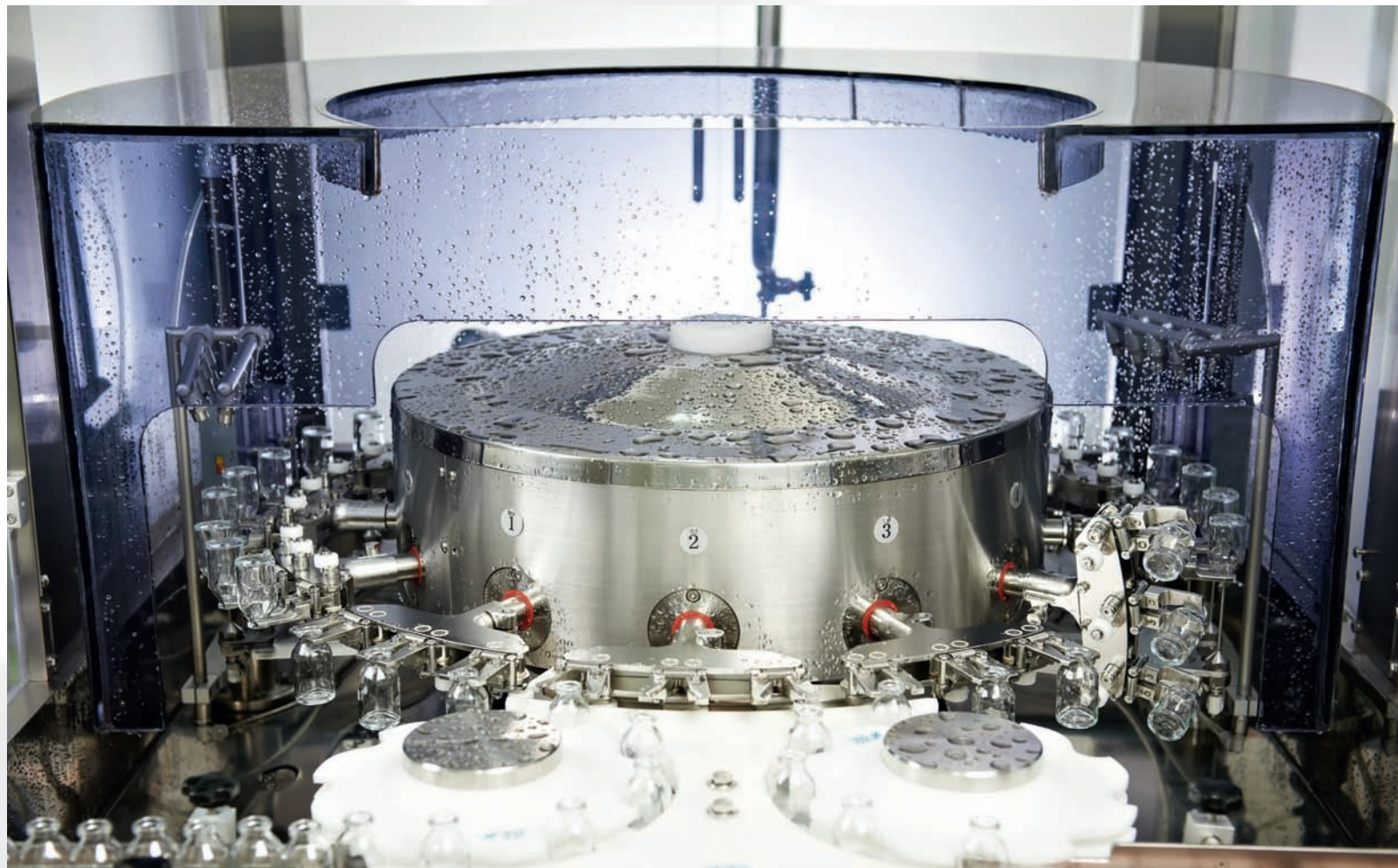
### **Low-friction stainless steel nuts**

- Considerably reduced tightening torques compared to bright stainless steel nuts
- Simple, reliable assembly without cold welding
- Can be reassembled several times
- Less risk of leaks





**Good connections are our speciality.  
For the safety of your plant!**



#### **»Made in Germany«**

Our stainless steel tube couplings and hose fittings are produced at the highest quality in our four plants at our main headquarters in Dellingen/Germany. We maintain great depth in manufacturing and apply strict quality criteria in the selection of our raw materials: we purchase bars and forging blanks, made exclusively of 1.4571 / 316Ti stainless steel, only from European countries.

#### **Short delivery times**

Our warehouse capacities and our machine park have size capabilities to enable immediate delivery of a vast portfolio of stainless steel fittings, even on short notice and in large quantities. Orders received by 5:00 pm can be shipped on the same day.

#### **Tested technology**

Our stainless steel hose fittings and ferrules are produced from one piece without welded connections. This prevents typical hazards of multi-part fittings such as badly executed weld points or shrinking.

On our in-house test benches, we perform endurance tests according to industry standards and guarantee the highest level of dependability.



# No compromises: high-grade 1.4571 / 316Ti stainless steel

We are the only manufacturer of tube couplings and hose fittings to exclusively use 1.4571 / 316Ti stainless steel. Not satisfied with inferior grades of steel, we seek to offer you only the highest-performance hydraulic fittings for your daily challenges.

## Here are the advantages of 1.4571 / 316Ti stainless steel:

- Austenitic chromium - nickel - molybdenum steel with titanium stabilisation
- Outstanding corrosion resistance due to the formation of homogeneous, dense passive layer on the surface
- High temperature stability (up to 700 °C)
- Suitable for low temperatures
- Strong mechanical stability, even at high temperatures
- Good ductility under mechanical stress
- Medium to high tensile strength (490-700 N/sqmm)
- Cold forging, cold heading capability

- Superb welding characteristics with all standard welding processes, e.g. also laser welding
- Magnetically stable ( $\mu_r \leq 1.3$ )
- Resistance against inter-crystalline corrosion is enhanced due to a Ti alloy. Fulfills the following standardised test procedures: AFNOR NF 05-159 – ASTM A262 Practice E – DIN EN ISO 3651-2

## Here are the advantages of our Seals:

- No compromises on the material used for the seals  
Standard = Fluorocarbon rubber (FKM) / Viton®, and other materials available upon request
- Temperature-resistant up to + 200°C
- Resistant to ageing and, inter alia, resistant to ozone



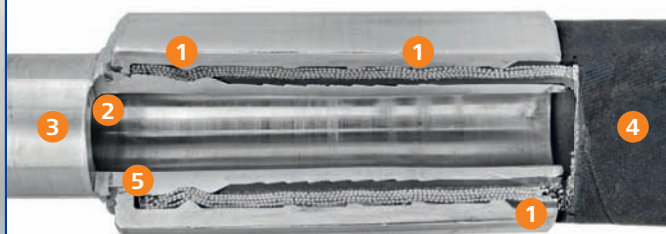
## Your safety at a glance:

- Quality »Made in Germany«
- Only stainless steel 1.4571 / 316Ti
- 100% Batch traceability
- 3.1 certificate upon request



# Fittings are our speciality.

## Hose Fittings



- 1 Internal and external skive assembly ensure optimal safety. A hose, finished inside and out, ensures optimal compression.
- 2 Single-part, solder-free fitting for maximum security
- 3 Different fitting configurations in the standard range (3000/6000 PSI flange, DKO, BSPP, NPT, UNO, JIC), plus numerous step sizes.
- 4 Conforming hoses from many manufacturers may be used. Ask about our third party accreditation program.
- 5 Stop limiters for assistance in locating of the hose tail in the hose and the ferrule in the suspension zone.

## Push-lock

Our Push-lock nipples for hoses are made for the quick and secure assembly on SAE100R6 / EN 854 type hose. Elaborate pressing in the pressing machine is not necessary. Simply attach, and the hose will hold firm.



The advantages of Volz Push-lock nipples:

- Quick and easy assembly
- No pressing / pressing machine required
- No adherence to crimp dimensions
- Easy disassembly by cutting the hose
- No clamps or casing necessary

## Adjustable Elbow Fittings



- 1 Threaded plug shape E in accordance with DIN 3852-11 and ISO 1179-2. By removing the outer metal ring, threaded plug shape F in accordance with DIN 3852 T3 and ISO 6149 is also possible.

- 2 Metric and BSPP JIC threads

The following applies for all components:

- Low construction height for limited installation space
- Low pressure losses
- Reduced number of possible leakage paths
- Available in carbon steel and stainless steel
- Standard WEE design
- Upon request also as VEE, TEE, LEE

## Ferrules

Ferrules for standard hose types :

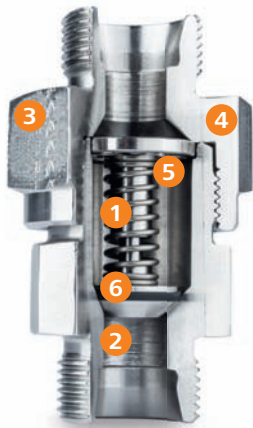


- Braided hose (ST, SN, SC)
- Spiral hose (SP, SH, R9R, R13, R15)
- Textile hose
- PTFE hose (corrugated pipe, smooth pipe)
- Thermoplastic (R7, R8)
- Special solutions

- 1 Optimised ferrule design depends upon the hose type; a universal hose tail is offered that is suitable for hose type specific ferrules.
- 2 Batch traceability

**Volz. Made in Germany.**

## Check Valves



- 1 Standard: 1 bar opening pressure, other opening pressures can be delivered quickly
- 2 Nominal flow maximised through the use of optimised components
- 3 Check valves of stainless steel 1.4571 / 316Ti

- 4 Different connection configurations:
  - 24° pipe connection / 24° pipe connection
  - 24° pipe connection / screw-in thread (metric / BSPP)
  - Internal thread on both ends (metric / BSPP)
- 5 Metallic sealing edge for use at high temperatures or with aggressive media
- 6 Elastomer seal in the closing direction

## Banjo Couplings



- 1 Internal elastomer O-ring seal and additional metallic seal. In applications with high temperatures or aggressive media the O-ring can be removed.

- 2 Optimised through flow and reduced pressure loss thanks to:
  - Tapered banjo bolt,
  - Bores in flow direction,
  - Rounded edges mean less swirling
- 3 Optional metallic or elastomer seal.
- 4 Different thread shapes available. Metric or BSPP threads available as standard.

## Green Leak-Free Seals



- 1 Encapsulated seals and bonded seals to avoid leakages

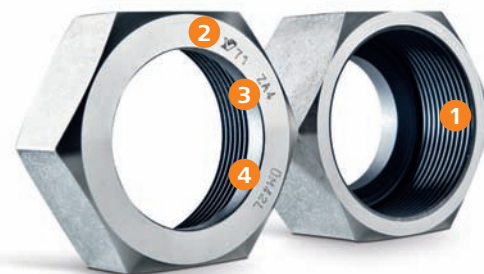
## Flared Tube (JIC) Couplings and Adapters



- JIC screw fittings and adapters made of stainless steel 1.4571 / 316Ti in many standard configurations and dimensions. Examples:
- JIC (SAE514, I-SO8434-3) to other thread styles: Metric, BSPP, BSPT, JIC, NPT, NPTF, UNO, SAE flange and more
  - NPT to JIC, BSP, BSPT, Metric, UNO

- 1 JIC-adapter (SAE 514, ISO 8434-3)

## Low-friction stainless steel nuts



- 1 Low-friction coating:
  - Optimal installation results thanks to minimal friction values
  - Can be reassembled several times
  - Assembly without cold welding
  - No discolorations as with silver coatings
- 2 Volz manufacturer's mark and material identification
- 3 100% Batch traceability, 3.1 certificate
- 4 Dimensions: 15L–42L and 16S–38S

# If you buy straight from the producer, you can rely on the quality.



The Volz Group employs a total of 400 people. Regionally, the company is particularly involved in the reconciliation of family and working life. Our company was very honoured to be awarded with the FamilyNET award.

We offer you »Made in Germany« quality and quick delivery wherever in the world your plant is located. Our sales companies in Turkey, Ukraine, Australia, China, Singapore, Russia and North America deliver to you quickly and reliably. And in many other countries we work with carefully selected and competent partners who are well known and well established in the field of hydraulics.

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