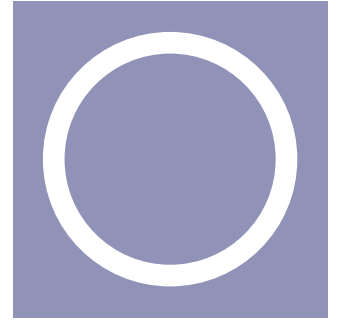


# PURES-tubes

## PURchasing and sales



(Tube-) components as well as dimensionally accurate processing solutions

### Certifications and documented processes

Our partners are certified with their manufacturing facilities according to EN ISO 9001:2008. In addition, our partners hold partly the certificates according to ISO/TS 16949 (Automotive), EN ISO 14001, BS OSHAS 18001, DGRL 97/23/EC (with AD 2000-Merkblatt W0).

**PURES-tubes**  
PURchasing and sales



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### A variety of processing solutions

Before innovations earn their money, development and purchasing are called to find the optimal processing solutions at an appropriate market price. PURES-tubes works worldwide with partners that have differentiated and large machine parks. Innovative thinking with an appropriate implementation are right at the front – and this with a reasonable price.

### Manufacturing quality at a high level – in compliance with the budget

PURES-tubes – because your engineers and purchasers need competent partners for their manifold projects. These partners are at your side on the way to tailored solutions. PURES-tubes procures tubes and (tube-) components with and without various processing inexpensive and timely – worldwide.



### „Because you need security in your serial production“: PURES-tubes – components

Tubes are only as good as the quality of their together installed components. That wisdom applies in particular when used in the series. Therefore certificates and documentation are a must. PURES-tubes works exclusively with manufacturers who have these certificates for the requested or to be delivered products as well as who can demonstrate appropriate inspection processes.

### PURES-tubes – (tube-) components for many applications, fitting exactly to the used tube or to other components

- automotive: passenger cars and commercial vehicles
- plant and mechanical engineering
- energy: power plants / heating construction
- architecture and construction: hydraulic / cylinder
- environmental technology and water management
- offshore engineering and ship building
- furniture industry, consumer goods
- food industry
- medical and pharmaceutical technology
- diverse additional areas of industry





# Examples of our product range

## Acc. to standards

## We deliver according to the specified standards

## Flanges

### Standards for butt-welding pipe fittings

(elbows, tees, reducers, dished ends/caps):

- EN 10253-1 (Butt-welding pipe fittings - Part 1: Wrought carbon steel for general use and without specific inspection requirements)
- EN 10253-2 (Butt-welding pipe fittings - Part 2: Wrought carbon and ferritic alloy steels with specific inspection requirements)
- EN 10253-3 (Butt-welding pipe fittings - Part 3: Wrought austenitic and austenitic-ferritic (duplex) stainless steels without specific inspection requirements)
- EN 10253-4 (Butt-welding pipe fittings - Part 4: Wrought austenitic and austenitic-ferritic (duplex) stainless steels with specific inspection requirements)

### Standard for flanges

- EN 1092-1 Flanges and their joints - circular flanges for pipes, valves, fittings and accessories, PN designated - Part 1: Steel flanges (incl. stainless steel)

### Flanges

Examples of materials: stainless or carbon steel grades, such as 1.4541, 1.4571, TP316L, TP304L, P235GH, P250GH, P265GH, 16Mo3, 13CrMo4-5  
Based on orders flanges can be made according to DIN, EN, AISI, GOST, JIS as well as other international standards or according to customer drawings

- Plate flanges Type 01
- Blind flanges Type 05
- Weld-neck flanges Type 11
- Threaded flanges Type 13
- Loose plate/lap joint flanges Type 02 / Type 04 (in conjunction with to be welded collars or stub ends)
- ASME flanges (pressure classes #3000, #6000 and #9000)
- Dimension ranges: PN2,5 - PN400; DN10 - DN4000; SCH5 - SCH16; ¼" - 40"

We are also your procurement partner, when it comes to tubes

Other components for special applications, qualities and dimensions on request

## Fittings

### Tees

With equal and reduced branch, series 1-6, Type A - reduced utilization, Type B - complete utilization; ANSI B16.9 STD; materials e.g.: St35.8I, St35.8III, 16Mo3, P235GH-TC1, 13CrMo4-5, 10CrMo9-10, 1.4541, 1.4571, 1.4307, 1.4401, 1.4404, 1.4539, Duplex 1.4462, Super Duplex 1.4410; DN25 - DN1200; 21,3 - 1219 mm equal; 26,9/21,3 - 1219/1016 mm reduced

### Vessel heads

Delivery program: Torispherical heads DIN 28011 / ASME F&D (flanged and dished) semi ellipsoidal heads DIN 28013, convex discs/dished plates (acc. to works standards), caps EN 10253-2

Materials, depending on heads type differently: S235, P265GH, 16Mo3, 13CrMo4-5, 10CrMo9-10, P355N..., WPB, WP..., 1.4307, 1.4404, 1.4539, 1.4541, 1.4571, 1.4828

Size range, depending on heads type differently:  
DN15 - DN1200; 21,3 - 1219,0 mm; wall 2,0 - 60,0 mm

### Reducers

Seamless / welded, concentric and eccentric, series 1-8, Type A - reduced utilization, Type B - complete utilization

Materials, depending on type differently: e.g. St35.8I, St35.8III, 16Mo3, P235GH-TC1, 13CrMo4-5, 10CrMo9-10, 1.4541, 1.4571, 1.4307, 1.4401, 1.4404, 1.4539, Duplex 1.4462, Super Duplex 1.4410

Size range, depending on type differently:  
DN15 - DN1200; 21,3 - 1219 mm; wall 2,0 - 60,0 mm

### Olets / Outlets

In different pressure levels and wall thicknesses - according to ASME B36.10 resp. B36.19 and ISO/DIN. Types: Weldolet, Sockolet, Thredolet, Latrolet, Elbolet, Nipolet, Sweepolet

### Elbows

Seamless / welded

Dimensions DIN 2605 Table 1 (ISO 4200)

45°, 90°, 180°

Types 2, 3, 5, special radii, short radius (SR), long radius (LR)

Materials: carbon steels, boiler steels, fine grained steels, (highly) heat-resistant steels acc. to EN as well as ASTM/ASME

DN15 - DN1200; ½" - 48"; 21,3 - 1219 mm

## Processing solutions

### Turned parts

Ready-turned and milled parts from solid metal or tubes, including different processing phases (grinding, thread rolling, broaching, gear cutting, grooving, lapping, deep drilling, welding and assembly), heat treatments (annealing, tempering, vacuum, oil and inductive and application-cure, nitriding, carbon nitriding), surface treatments (hot-dip galvanizing, galv. zinc, anodizing, phosphating, burnishing, cathodoresis, chroming, Dacromet, Teflon coating, plasma and ceramic coating, curing nitration, nitrocarburizing, chemically nickel, tungsten carbide)

- We can manufacture machined parts up to 1000 mm diameter.
- Single-item, initial samples and series orders

**Materials:** steel, stainless steel, hardened and tempered steel, special steel (e.g. Duplex, Inconel and others), aluminum, bronze, cast alloys, plastics

**Testing and control systems** in climate-controlled quality areas, e.g. 3D measuring machine DEA Global 1075 x 700 1000 x 500, Mitutoyo hardness tester DT-20, roughness tester Mitutoyo Sj-201P, Altimeter Linear Height 600, feeler gauge LMT CM-8826FN

The machinery consists among others of several milling machines, CNC lathes, multi-spindle machines, sawing machines, grinders, drills and others

## Elbows

## Turned parts

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