

BÜSCH UNO angle and butt joints

Vulcanising instead of adhesive bond

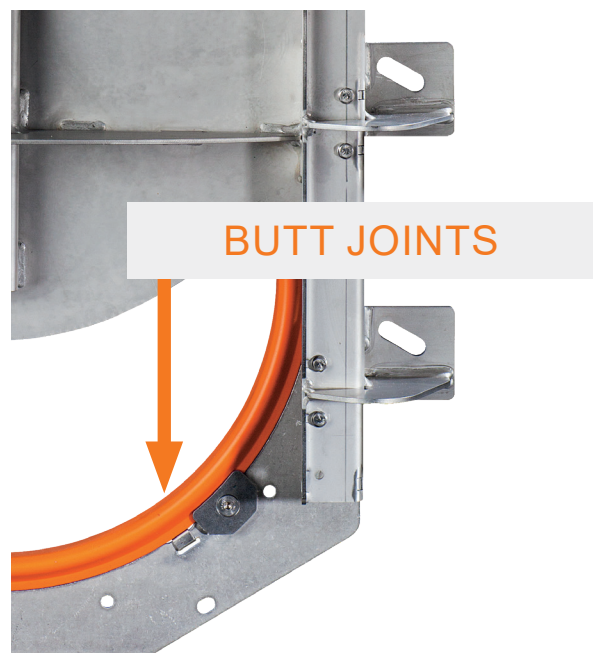
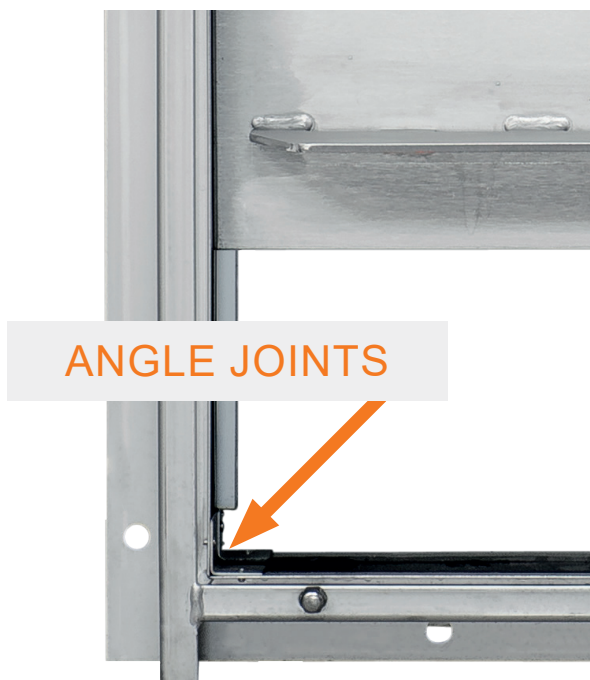
With our sealing process, we not only meet our own quality standards but also comply with the guidelines of the Hydraulic Steel Construction and Wastewater Treatment Plant standards.

Standard „Hydraulic Steel Construction DIN 19704-2“

Part 2: Structural design and manufacture

Point 6.4 - Seals made from elastomers

„...joints of seals are ... hot to vulcanise.“



BÜSCH-Angle joints

are vulcanised at **over 180°C***.

The connecting element used has the same chemical properties as the sealing elastomer seal and forms a single unit with it.

*Application in the seals of the CP, XL and XM product series.

BÜSCH-Butt joints

are butt welded, which is a comparable process*.

An intermediate material is not necessary. The thermoplastic properties of the elastomer used are sufficient.

*Application in the sealing ring of the SAFOX penstock.

Compliant with standards = Vulcanisation and butt welding of the sealing joints



BÜSCH UNO

Vulcanising instead of adhesive bond

Guaranteed durability of the seals

Highest quality for penstocks

BÜSCH UNO



- + Identical material properties
- + Identical strength
- + Identical expansion
- + Identical elasticity
- + **NO** risk of joint leakage

The BÜSCH UNO sealing joints have the same chemical composition and resistance as the elastomer seal and form a single unit after vulcanisation
= **much more durable!**

ADHESIVE BOND



- Unflexible adhesive layer connection
- High susceptibility to cracks
- Increased risk of joint leakage
- Unproven long-term stability
- Joint quality dependent on the manufacture

Adhesive bonds are always independent of the residual material and remain an independent component:

The adhesive bond is always a separate component in the elastomer seal.

Standard „Wastewater treatment plants Construction principles for structures and technical equipment DIN 19569-4“

Part 4: Special design principles for penstocks without housing

Point 6.2 - Special design features

6.2.1 Seals

6.2.1.1 Sealing between frame and plate

„...connections between elastic seals (joints, also in corners) must be hot vulcanised or similar.“



Our pledge of quality

Durable NO leakage on BÜSCH UNO angle and butt joints!

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AVAILABLE FOR ALL PRODUCT GROUPS
OF OUR PENSTOCKS



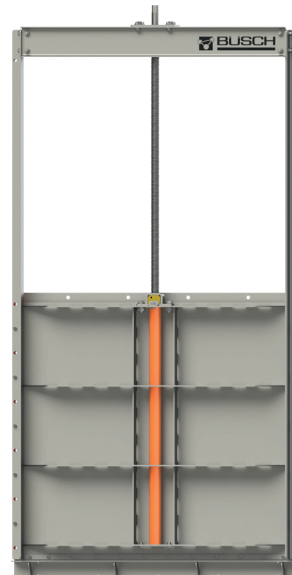
SAFOX®
penstock



XL4
penstock



CP4
penstock



XM4
penstock



DURABLE, RELIABLE, SAFE

The BÜSCH pledge of quality

OWN PICKLING PLANT

for stainless steel passivation for total protection against corrosion



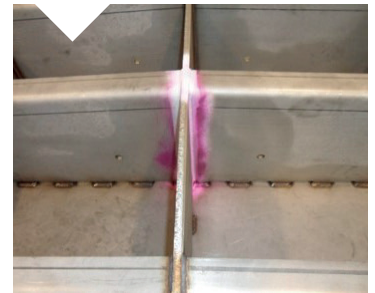
ASSEMBLY READY

for a quick & easy installation



WELDING TEST

for flawless stainless steel joints



PRESSURE TEST

to ensure the watertightness prior to delivery



UNO SEAL JOINTS

for total reliability by means of vulcanisation & butt welding



Water pressure test in our own factory

to ensure tightness before delivery

We test the ready-to-fit penstocks for complete tightness on our in-house pressure test wall.

YOUR ADVANTAGES:

- + Seal corpus 100% pressure tested
- + Pressure test:
Up to opening size 3000 x 3000 mm and up to 40 mwc (other pressure levels/sizes available on request)
- + Test report and certificate available on request in accordance with 3.1 EN 10204

