



PreFiS-XL

Innovative pipe connection solutions
No welding required

Reliable partner

Solutions for the most challenging requirements

Our value proposition

Benteler Distribution is one of the leading international operating stockholding and processing companies of high-quality carbon and stainless steel tubes and fittings.

You can benefit from our comprehensive knowledge of materials, state-of-the-art processing methods, and individual services. We offer competent consultancy, bundling of procurement volumes, as well as customized stocking and logistics solutions, and we can extensively support you in developing new or improving existing products and processes.

We commit ourselves to national and international quality standards, and we can serve you at more than 60 locations in over 30 countries with the same high level of quality, all having attained ISO 9001 approval.

Technical progress

The intensive dialog with our customers combined with our extensive expertise in the design and manufacture of steel tubes and components available in the Benteler Group, enable us to foresee future developments at an early stage, and to react in a timely manner to them by developing solutions for the changing requirements.

All products from a single source

In contrast to other providers you can obtain your press fittings, installation tools and corresponding tube products from a single source. This helps you to reduce the number of suppliers.

Whether you require standard dimensions and materials, or specials – we can assist you in choosing the right products for your requirements, either from stock, or on short lead times, with the flexibility of our manufacturing facility.

Please contact us to receive further information about our tube product portfolio.

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BENTELER 
Distribution

PreFiS-XL ensures a reliable connection of tubes

Lower process costs and several other advantages



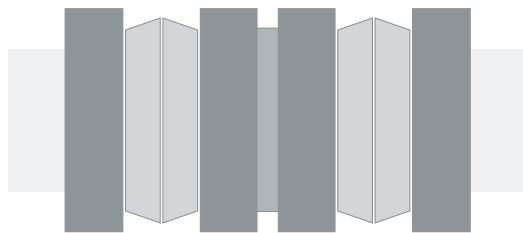
High-quality pipe connection

Conventional pipe connections have a number of disadvantages, and have limitations in areas with high safety and hygiene standards, a high danger of explosion, or a shortage of space for installation equipment. Many industries, such as the fire sprinkler, shipyard, shipbuilding, chemical and petrochemical industry demand an alternative to those systems.

The Benteler Group provides metallic sealing pipe connection components which are a significant improvement compared to conventional pipe connections in terms of safety, time, convenience, quality and reliability as well as with regard to costs. PreFiS-XL products ensure a reliable connection of pipes and do not require welding. The fittings can be installed easily and quickly with the help of a press tool and a hydraulic pump which are both supplied by us.







Technology

PreFiS-XL products consist of a cylindrical body with a clogged inner surface and two press ring sets. It only takes a few seconds to crimp the press fitting and the pipes.

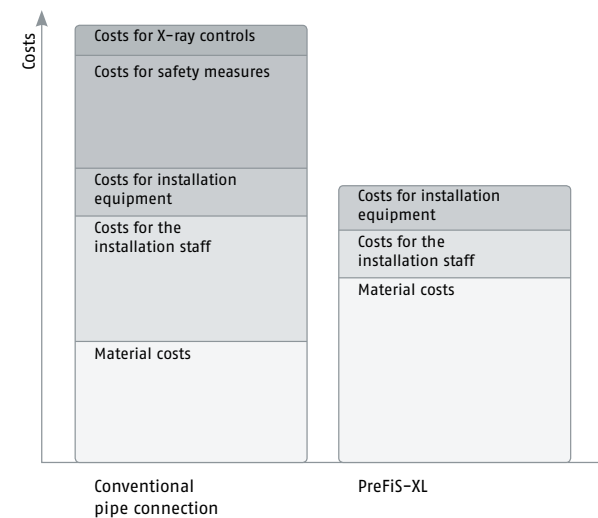


Unpressed condition

Advantages in comparison to conventional tube connections

-  **More safety**
Safe installation as no welding is needed
-  **More convenience**
Easy installation – even in narrow spaces
-  **More quality**
High reliability and resistance to high pressures (up to 630 bar), temperatures and chemicals
-  **Less effort**
No additional preparation and no reworking required
-  **Less time**
Installation within a few seconds
-  **Lower costs**
No expenditure for safety measures or X-ray controls necessary

Cost comparison of different pipe connection systems



Fitting specifications

PreFiS-XL products are suitable for seamless and welded carbon and stainless steel pipes and are available in many different dimensions and forms, such as straight couplings, reducing couplings, end plugs, parallel female and male stud couplings, equal and reducing tees, distribution blocks, weldable bulkhead couplings, flange adapters and bends. Due to our group's competencies we are able to customize all products to your special requirements.

Materials

- Carbon steels Body: 1.0570
Press ring sets: 42CrMo4 (1.7225, 1.7227)
- Stainless steels Body: 1.4404, 1.4571
Press ring sets: 42CrMo4 (1.7225, 1.7227)

Pipe diameter

(acc. to DIN/EN and ASTM)

- Carbon steels 10.0 – 88.9 mm
- Stainless steels 10.0 – 76.1 mm

Temperatures -55°C – 400°C (depending on approval)

Pressures

- Carbon steels up to 630 bar operating pressure
- Stainless steels up to 260 bar operating pressure

Errors and technical modifications reserved.

PreFiS-XL is multi-certified



PreFiS-XL passed various tests

Test	Test condition		
		Carbon steel	Stainless steel
Vacuum test	Medium	Air	
	Pressure	170 mbar	700 mbar
	Duration	5 min.	15 min.
Static gas pressure test	Medium	Nitrogen	
	Pressure	70 mbar	100 mbar
	Duration	5 min.	2 min.
Burst pressure test	Medium	Hydraulic oil	
	Pressure	4 x P _N	
	Duration	5 min.	2 min.
Pressure impulse and vibration test	Medium	Hydraulic oil	
	Pressure impulse	Number of cycles: 5 x 10 ⁵ Cycles: 0.5 Hz – 1.7 Hz	
	Vibration	Number of cycles: 20 x 10 ⁶ Frequency: 20 – 50 Hz	
Fire protection test	Temperature	-	750 – 800°C
	Pressure	-	24.0 – 520 bar
	Duration	-	30 min.
He leak test	Medium	-	He 4.6
	Pressure	-	DN 20 = 190 bar, DN 80 = 120 bar

