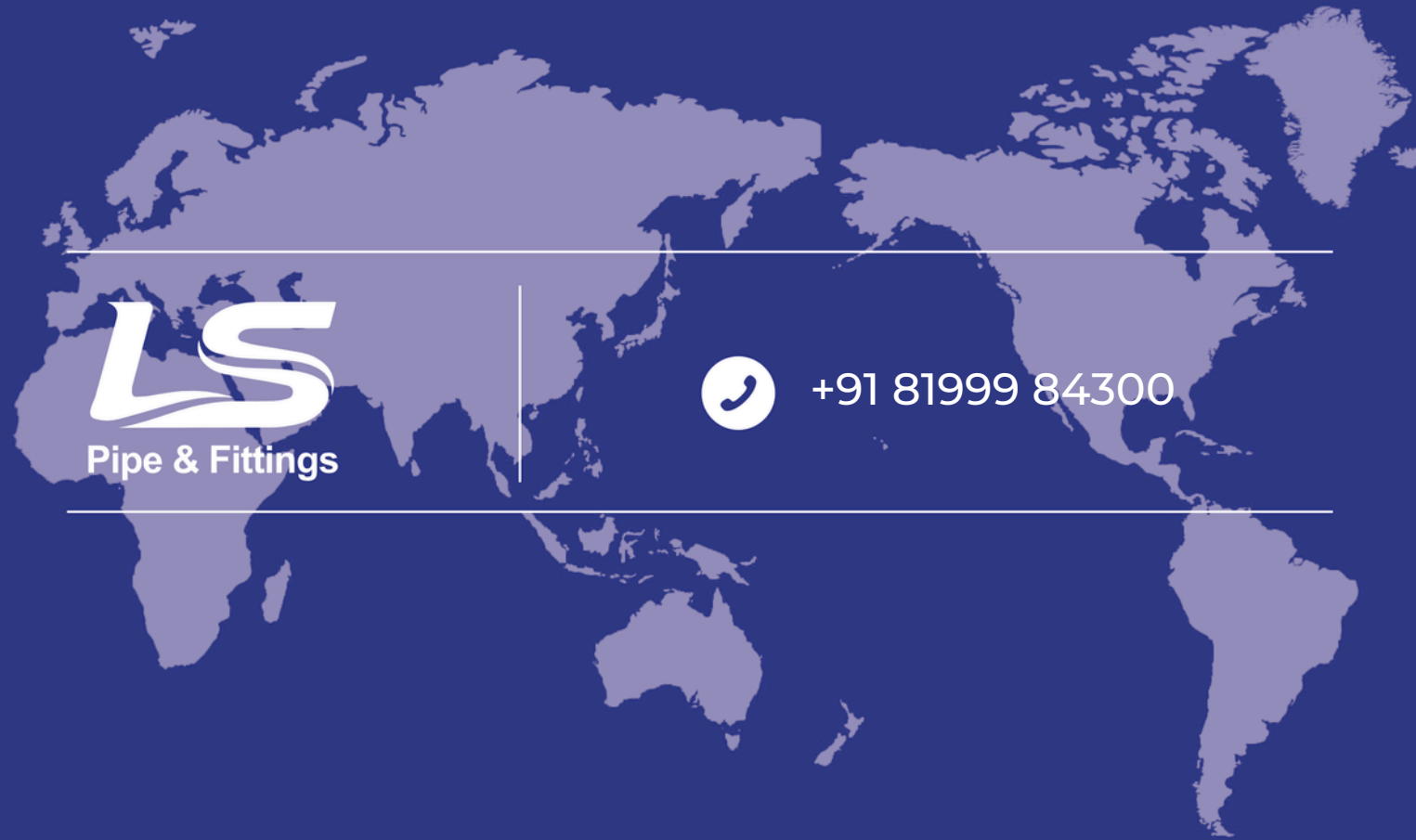




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# PRODUCT CATALOGUE

## PEX PIPE-FITTING



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GOST-R

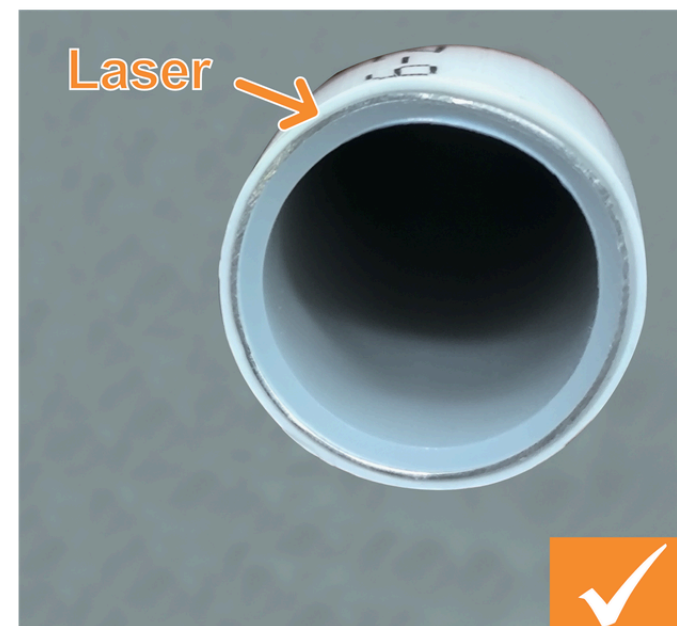


## The difference between Overlap Pipes and Laser Pipes

Comparison Item	Overlap Pipe	Laser Pipe
<b>Manufacturing Process</b>	Welded after overlapping steel plate edges	Steel plate edges butt-welded using a laser
<b>Connection Method</b>	Can only use compression fittings. Press fittings are prone to leakage.	Compatible with both compression and press fittings.
<b>Weld Quality</b>	Relatively lower. Potential weak points at the weld seam.	Superior quality. Weld seam is uniform, strong, and offers better integrity.
<b>Environmental Adaptability</b>	Poorer. May crack in extreme cold (e.g., North India) due to uneven thermal expansion/contraction.	Excellent. Suitable for cold regions, with strong resistance to high and low temperatures and better stability.
<b>Key Advantages</b>	Potentially lower cost and simpler process.	Reliable connections, strong adaptability, longer service life, and higher safety.

Overlap Pipe

Laser Pipe



## The Advantage Of Nickel Plating On Compression Fittings

Advantage	Description
<b>Corrosion Resistance</b>	Provides excellent rust and oxidation protection in harsh environments.
<b>Wear Resistance</b>	Increases surface hardness and durability for repeated use and vibration.
<b>Reduced Friction</b>	Smooth surface ensures easier, smoother installation and assembly.
<b>Improved Sealing</b>	Creates a denser, smoother surface for more reliable sealing performance.
<b>Good Base Compatibility</b>	Bonds well with various base metals (steel, copper, aluminum).
<b>Professional Appearance</b>	Clean, silver-white finish suitable for visible applications.
<b>Cost-Effective</b>	More economical than using solid stainless steel or brass for the entire part.

### Compression fittings using in demanding environments:

**Withstand system pressure:** Coating density directly affects permeability resistance.

**Endure mechanical stress:** Requires sufficient surface strength and toughness for clamping force and vibration.

**Contact diverse media:** May interface with water, hydraulic oil, refrigerants, or mildly corrosive fluids.

**Require repeated disassembly:** Surface must be wear-resistant to maintain sealing integrity over multiple cycles.

Nickel plating comprehensively addresses these demands. Beyond rust prevention, it enhances overall surface engineering performance—hardness, smoothness, and density—to ensure long-term sealing safety and reliability in piping systems.

**GENERAL INFORMATION**

The LS pipe system is the culmination of constant advancements in conventional PEX pipes manufacturing technology that combines the special characteristics of cross-linked polyethylene pipes with the merits of metal pipes. You no longer have to choose between metal pipes and plastic pipes: The LS system features major pressure resistance and stability during temperature fluctuations without sacrificing elasticity.

**External and internal layers**

They are made of cross-linked polyethylene that is extensively used in distribution of potable water. The silane cross-linking provides superior chemical and mechanical properties.



**Bonding layers**

They are made of a powerful adhesive that bonds the intermediate aluminium layer with the internal and external layers.

**Intermediate layer**

An aluminium alloy with laser welding that guarantees a total barrier to the passage of oxygen and light and provides excellent mechanical and chemical properties.

**AREAS OF APPLICATION**

You can use LS pipes for:

- conducting cold and warm water for drinking water, heating and sanitary system
- conducting other fluid warm in heating systems both in heating elements and floor heating systems
- conducting warm water and other fluid warm for industrial applications
- conducting food liquids

**TOXICITY**

This system guarantees compliance with maximum safety requirements for impurities in the liquids conducted. All components used have been selected and engineered to be able to guarantee maximum safety for these systems. there are absolutely no toxicity problems

- they are not susceptible to the spread of bacteria
- there are no oxidation or corrosion problems
- they are not susceptible to encrustations.

**GLOBAL QUALITY TRUST AND HONORS**

in addition to possessing the qualification of a full range of imported products, the LS brand has passed many international tests and certifications. The German SKZ certification is the most stringent certification in the global pipeline industry. it not only certifies the quality of products, but also monitors the production of enterprises. LS has also passed ISO TYPE-5, CE, WRAS and other internationally renowned testing certification.





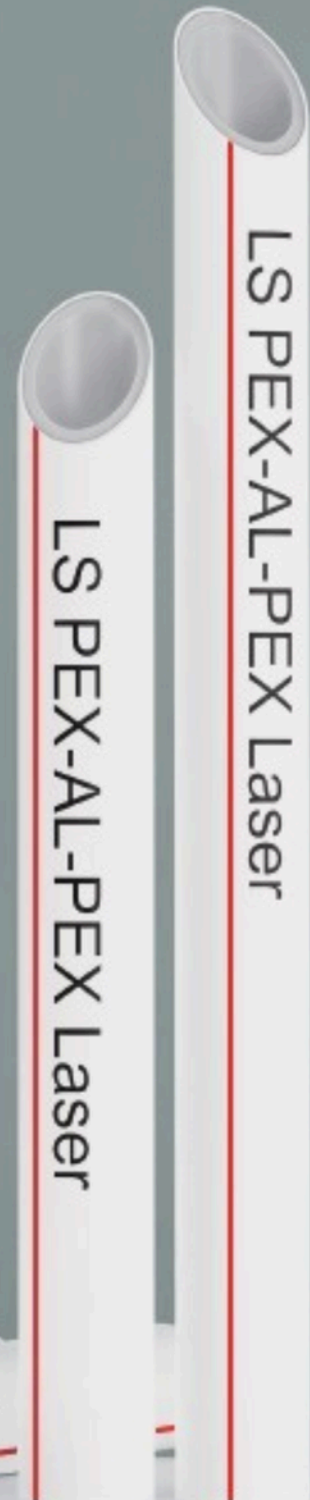
Environmentally friendly materials, non-toxic and tasteless

Corrosion-resistant, not afraid of hot or cold

Easy and quick installation, excellent sealing, zero leakage to ensure smooth operation

Keep water flowing safely and unimpeded

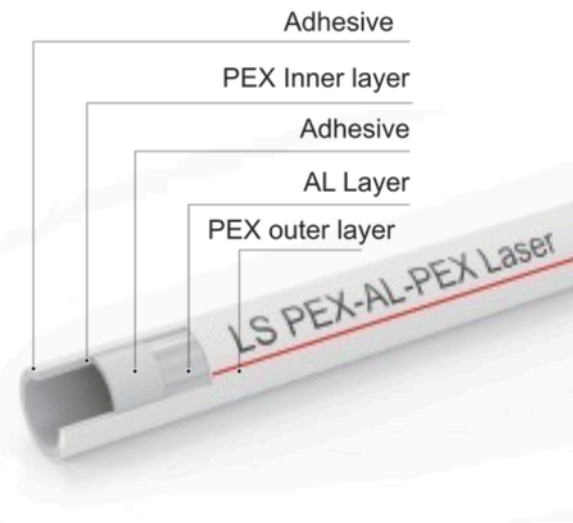
German technology, products durable for 50 years



### Classification of working conditions

The performance specifications for pipe-based systems complying with EN ISO 21003-1 refer to a project with a 50-year operational life.

RANGE OF APPLICATION	WORKING TEMPERATURE $T_0$ [°C]	DURATION OF $T_0$ [year§]	MAX WORKING TEMPERATURE $T_{MAX}$ [°C]	DURATION OF $T_{MAX}$ [years]	FAILURE TEMPERATURE $T_{FAIL}$ [°C]	DURATION OF $T_{FAIL}$ [h]
CLASS 1 Domestic hot water (60 °C)	60	49	80	1	95	100
CLASS 2 Domestic hot water (70 °C)	70	49	80	1	95	100
Floor heating and low-temperature systems	20	2,5	70	2,5	100	100
	+	+				
	40	20				
CLASS 5 Radiator heating and high-temperature systems	20	14	90	1	100	100
	+	+				
	60	25				
	80	10				



### PEX-AL-PEX Laser Pipe

Size	PCS/Bag	Weight (g/m)	CTN Size(cm)
1620	100	132	0.065
2026	100	240	0.144
2632	100	305	0.180



Socket



Elbow



Tee



Female Socket



**PEX-AL-PEX Laser Pipe**

Size
1620
2026
2632



**Insulation Pex-Al-Pex Pipe**

Size
1620x100m
2026x50m



**Male Socket**

Size
S20X1/2"M
S20X3/4"M
S20 X 1"M
S26 X 1/2M
S26X3/4"M
S26X1"M
S32X3/4"M
S32X1"M



**Female Socket**

Size
S20X1/2" F
S20X3/4" F
S20 X 1" F
S26X1/2" F
S26X3/4" F
S26X1" F
S32X3/4" F
S32X1" F



**Socket**

Size
S20
S26
S32
S26X20
S32X 20
S32X26



**Elbow**

Size
L20
L26
L32
L26X20
L32 X 20
L32X26



**Female Elbow**

Size
L20X1/2" F
L20X3/4" F
L26X3/4" F
L26X1" F
L32X3/4" F
L32X1" F



**Female Tee**

Size
T20X1/2FX 20
T20X3/4FX 20
T26X3/4FX26
T26X1FX26
T32X3/4FX 32
T32X1 FX32



**Seated Female Elbow**

Size
ZL20X1/2" F
ZL20X3/4" F



**Plug**

Size
20
26



**PEX Brass Valve**

Size
20*20
26x26
32x32



**Spring Inside**

Size
20mm
25/26mm
32mm



**Spring Outside**

Size
20mm
25/26mm
32mm



**Tee**

Size
T20
T26
T32
T20X26X20
T26X20X20
T26X20X26
T26X32X26
T32X20X20
T32X20X32
T32X26X26
T32X26X32
T32X32X20



**Pipe Cutter**

Size
16-32



**PEX Round Tools**

Size
16-20-25

