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PRODUCT CATALOGUE

PEX PIPE-FITTING



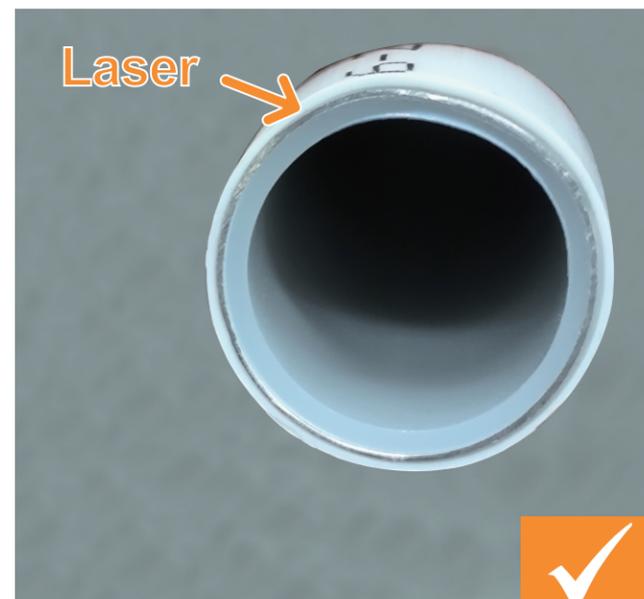
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The difference between Overlap Pipes and Laser Pipes

Comparison Item	Overlap Pipe	Laser Pipe
Manufacturing Process	Welded after overlapping steel plate edges	Steel plate edges butt-welded using a laser
Connection Method	Can only use compression fittings. Press fittings are prone to leakage.	Compatible with both compression and press fittings.
Weld Quality	Relatively lower. Potential weak points at the weld seam.	Superior quality. Weld seam is uniform, strong, and offers better integrity.
Environmental Adaptability	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.
Key Advantages	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
Corrosion Resistance	Provides excellent rust and oxidation protection in harsh environments.
Wear Resistance	Increases surface hardness and durability for repeated use and vibration.
Reduced Friction	Smooth surface ensures easier, smoother installation and assembly.
Improved Sealing	Creates a denser, smoother surface for more reliable sealing performance.
Good Base Compatibility	Bonds well with various base metals (steel, copper, aluminum).
Professional Appearance	Clean, silver-white finish suitable for visible applications.
Cost-Effective	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.

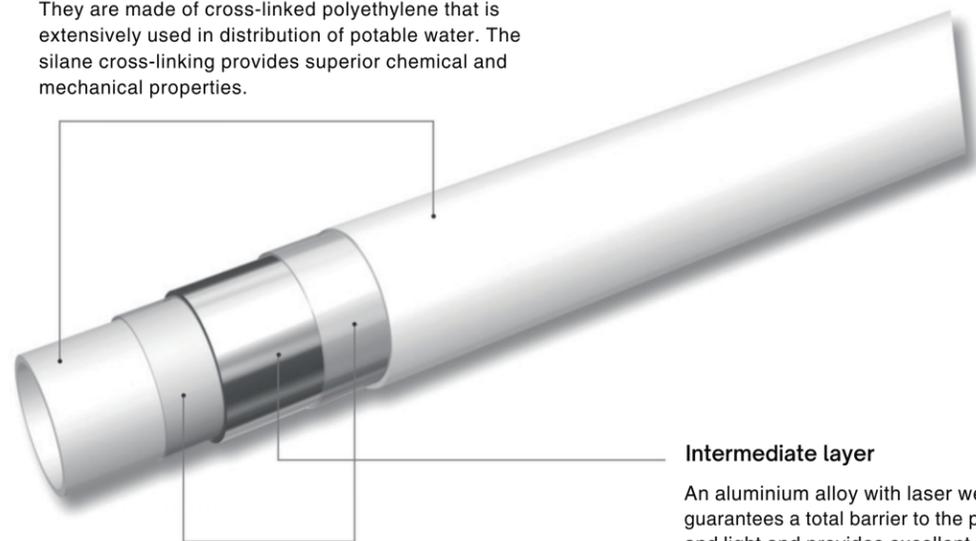
Nickel plating comprehensively addresses these demands. Beyond rust prevention, it enhances overall surface engineering performance—hardness, smoothness, and density—to ensure long-term sealing safety and reliability in piping systems.

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.

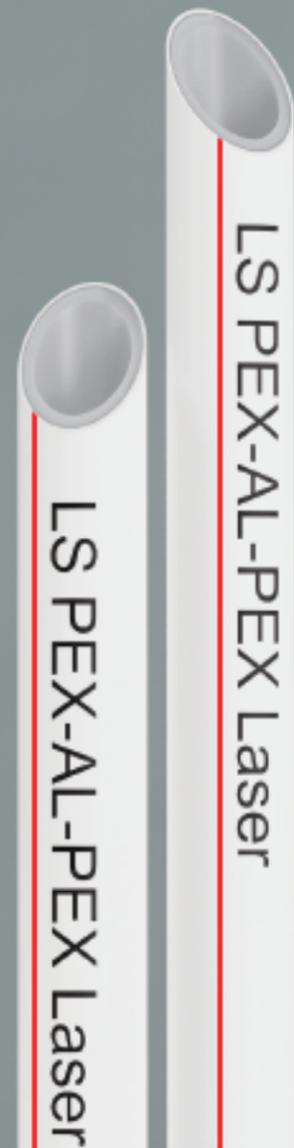
GLOBAL QUALITY TRUST AND HONORS

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.



PEX-AL-PEX LASER PIPE

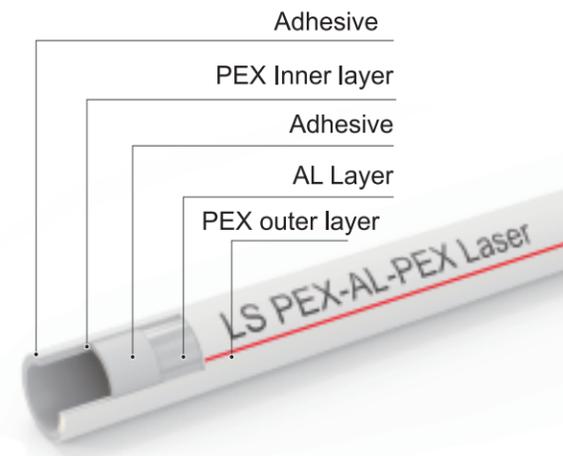
-  Environmentally friendly materials, non-toxic and tasteless
-  Corrosion-resistant, not afraid of hot or cold
-  Easy and quick installation, excellent sealing, zero leakage to ensure smooth operation
-  Keep water flowing safely and unimpeded
-  German technology, products durable for 50 years



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_D [°C]	DURATION OF T_D [years]	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
CLASS 4 Floor heating and low-temperature systems	20	2,5	70	2,5	100	100
	+	+				
	40	20				
CLASS 5 Radiator heating and high-temperature systems	+	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	MRP/MTR
1620	180
2026	320
2632	410



Insulation Pex-Al-Pex Pipe

Size	MRP/MTR
1620x100m	260
2026x50m	420



Male Socket

Size	MRP/PCS
S20X1/2"M	254
S20X3/4"M	262
S20 X 1"M	328
S26 X 1/2M	418
S26X3/4"M	428
S26X1"M	440
S32X3/4"M	818
S32X1"M	830



Female Socket

Size	MRP/PCS
S20X1/2"F	228
S20X3/4"F	270
S20 X 1"F	360
S26X1/2"F	316
S26X3/4"F	366
S26X1"F	446
S32X3/4"F	560
S32X1"F	748



Socket

Size	MRP/PCS
S20	422
S26	748
S32	1302
S26X20	636
S32X 20	986
S32X26	1162



Elbow

Size	MRP/PCS
L20	402
L26	660
L32	1414
L26X20	604
L32 X 20	1042
L32X26	1190



Female Elbow

Size	MRP/PCS
L20X1/2"F	360
L20X3/4"F	328
L26X3/4"F	492
L26X1"F	526
L32X3/4"F	750
L32X1"F	1190



Female Tee

Size	MRP/PCS
T20X1/2FX 20	480
T20X3/4FX 20	512
T26X3/4FX26	916
T26X1FX26	1008
T32X3/4FX 32	1534
T32X1 FX32	1594



Seated Female Elbow

Size	MRP/PCS
ZL20X1/2"F	380
ZL20X3/4"F	402



Plug

Size	MRP/PCS
20	256
26	446



PEX Brass Valve

Size	MRP/PCS
20*20	930
26x26	1530
32x32	2330



Spring Inside

Size	MRP/PCS
20mm	180
25/26mm	250
32mm	330



Spring Outside

Size	MRP/PCS
20mm	420
25/26mm	620
32mm	800



Tee

Size	MRP/PCS
T201	580
T26	1190
T32	1902
T20X26X20	806
T26X20X20	806
T26X20X26	868
T26X32X26	1378
T32X20X20	1246
T32X20X32	1694
T32X26X26	1582
T32X26X32	1712



Pipe Cutter

Size	MRP/PCS
16-32	290



PEX Round Tools

Size	MRP/PCS
16-20-25	430