

arc
STAINLESS STEEL
PLUMBING
BY JINDAL STAINLESS



**Sustainable
Smart
Safe**

**Integrated
Plumbing Solution**

JSL
L I F E S T Y L E

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From the MD's Desk

This year has been a year of growth and new opportunities for everyone at JSL Lifestyle. Our state-of-the-art stainless steel plumbing solutions have become extremely well accepted in the industry. I feel our reputation is our most treasured asset and the only way to protect and improve it is to exceed client's expectations, meet our commitments, innovate in our business and deliver excellence.

Presenting our stainless steel plumbing solutions.

Deepika Jindal
Creative Director & MD
JSL Lifestyle Ltd.

About ARC

ARC is the flagship brand from JSL Lifestyle Ltd., a subsidiary of Jindal Stainless Ltd. ARC epitomizes versatility and innovation that can be achieved with stainless steel. Stainless steel is believed to be JSL's canvas and the company always strives to make people see the green alloy in a new light. Its wide range of products and solutions constantly raise the bar in design, fabrication and installation.



Jindal Stainless Limited is a part of the OP Jindal Group and is also India's largest integrated producer of stainless steel. Our plumbing systems are international in all respects and in a short span of time ARC has managed to carve a niche for itself by making people see stainless steel in a new light with infinite lifestyle possibilities.



Live pure and clean

We know you're smart,
but how smart is your house?



Do you think you drink clean water every day?



Think again.

What about the invisible enemy running beneath
your creaky floors and leaky pipes?

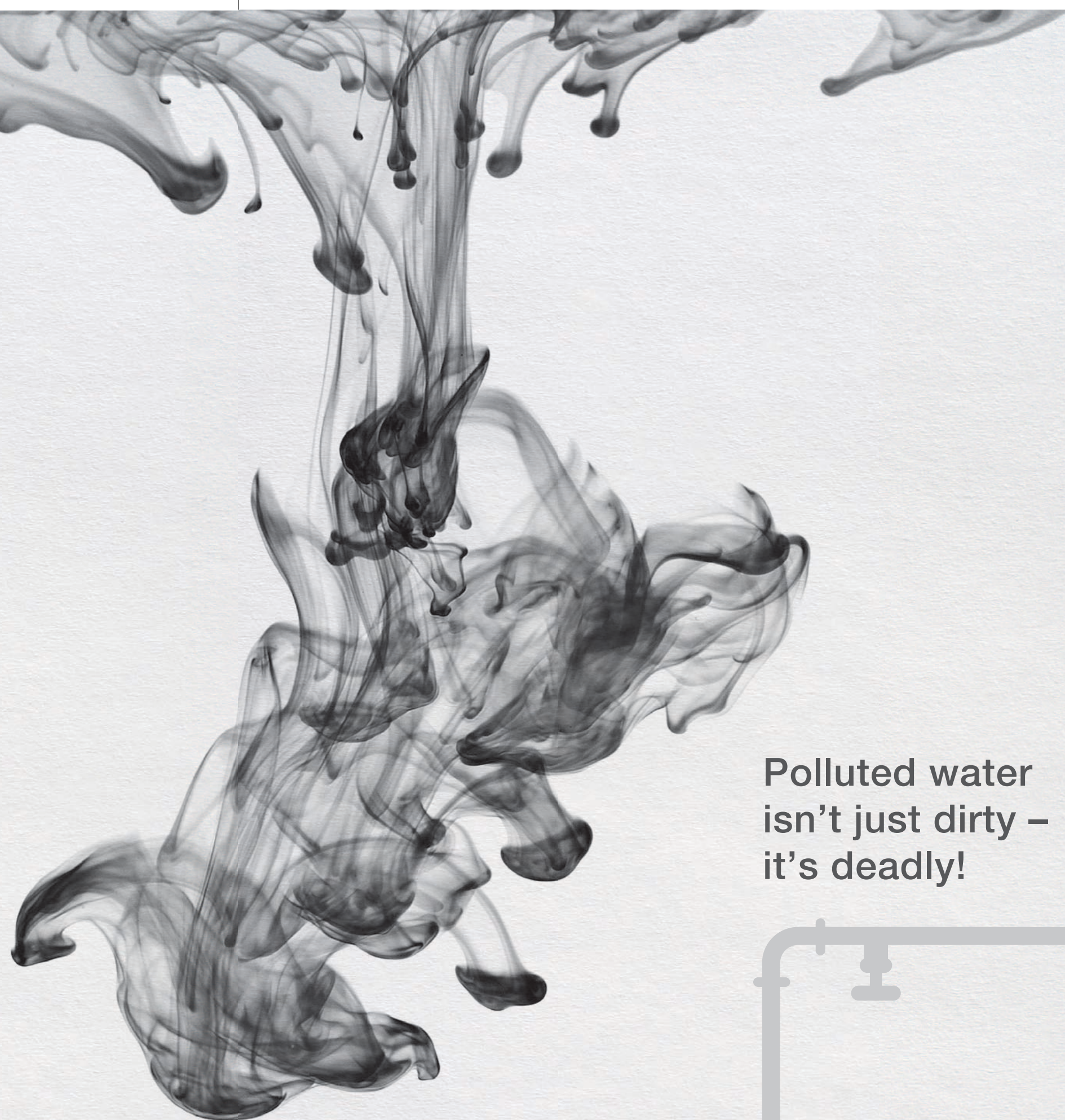


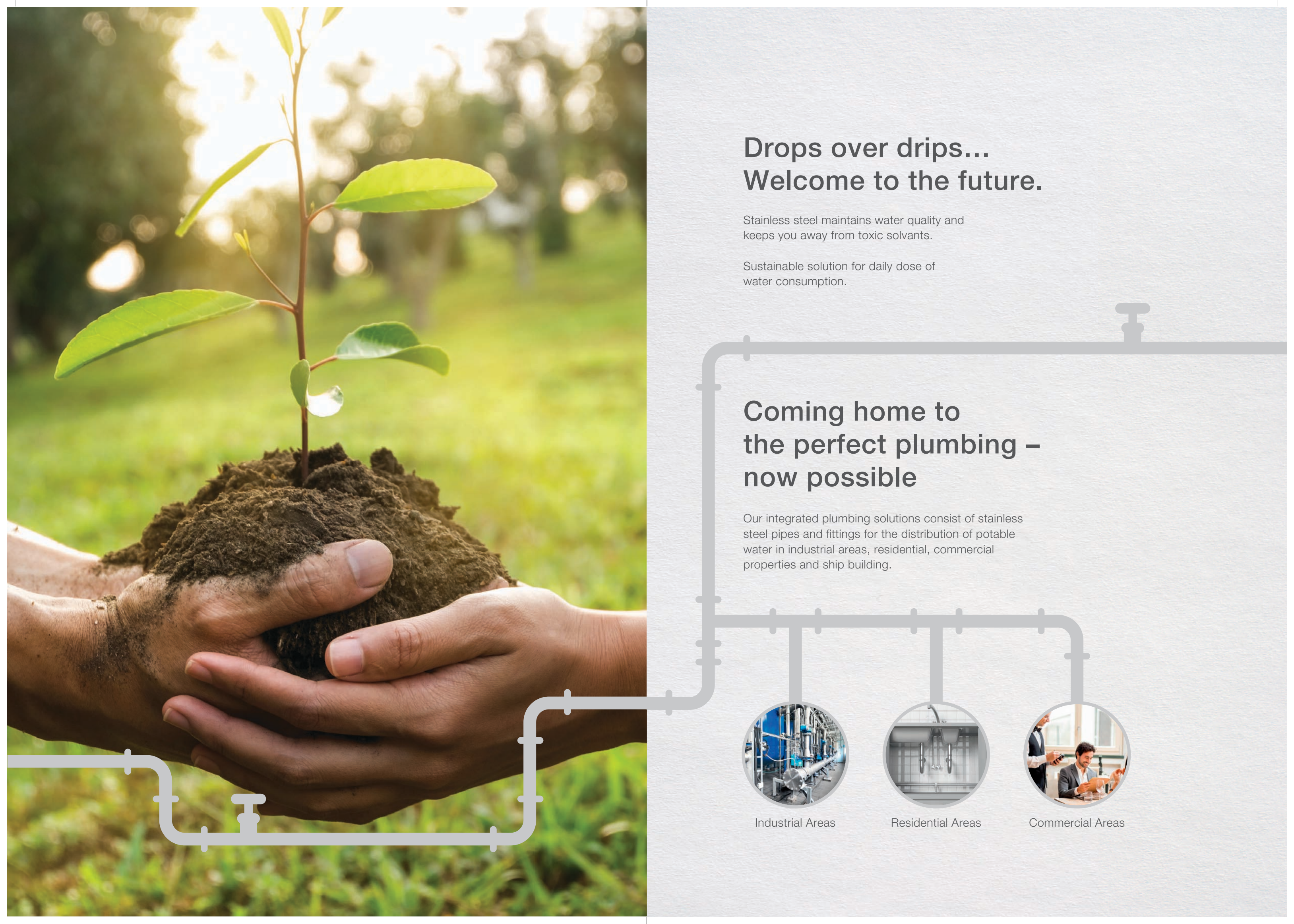
Stainless Plumbing System is a complete solution

Water carrier is safe as your expectation.
Durability of stainless steel brings savings.



Polluted water
isn't just dirty –
it's deadly!





Drops over drips... Welcome to the future.

Stainless steel maintains water quality and keeps you away from toxic solvents.

Sustainable solution for daily dose of water consumption.

Coming home to the perfect plumbing – now possible

Our integrated plumbing solutions consist of stainless steel pipes and fittings for the distribution of potable water in industrial areas, residential, commercial properties and ship building.



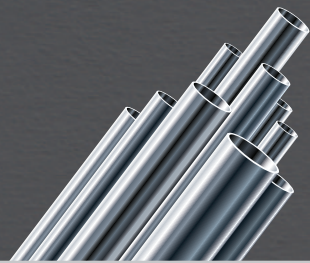
Industrial Areas



Residential Areas



Commercial Areas



Advantages of Stainless Steel Integrated Plumbing Solutions

Ease of Installation

The stainless steel press fittings are efficient to use in joints and suitable for installation where space is limited or where the use of heat is a challenge.

Corrosion Protection

Low carbon grade of steel provides better resistance to corrosion in pure water environment and also resists corrosion in the high alkaline solutions, acids, and conditions bearing chlorine.

Low Maintenance

Stainless steel systems have a lifetime of over 50 years which is far longer than its competing materials. Minimal or no maintenance is required after installation.

Hygienic

The installation of stainless steel is clean and does not contaminate the system. There is no better material to trust when it comes to hygiene.

Longevity

The long lifetime of stainless steel is the result of the alloying composition. It offers a long-term value and therefore the least expensive option considering the life cycle cost for installation of plumbing systems.

Aesthetic Value

Stainless steel is the perfect blend with modern architecture and adds an aesthetic appeal to any corner of the house. With its added advantage of no paint coating, this makes it the perfect material for plumbing.



Applications

Hot and cold water supply

Potable water

Sprinklers

Fire-fighting

Stainless Steel Press

Fit it and forget it.
A system for all types of
plumbing installations.



Union



FTE



Female Tee



End Cap



Reducing Tee



Elbow 90o



Pipe Bridge



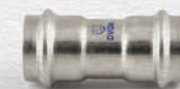
Equal Tee



Female Adaptor



Reducer



Coupler



Sleeve Coupling



Flange



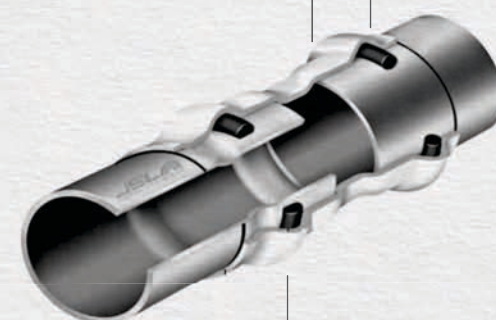
MTA



Jindal Stainless Integrated Plumbing System

Mark insertion visual verification that the pipe has been fully inserted

Seal pocket for o-ring



Seal Pocket

Seal is compressed to provide a leak free connection

Jindal Stainless Steel Pipes

ERW pipes of austenitic Cr-Ni-Mo, 1.4404 - AISI 316L manufactured according to standard EN 10312.

Stainless steel integrated plumbing system in grade AISI 316L

Product	Grade	Standard	Recommended for	Recommended application
Pipe	316L X2CrNiMo17-12-2	EN10312	>200 & <1000ppm of Chlorides	Potable water, drinking water, cold and hot water applications. Especially effective for coastal region.
Fittings		EN10312		
EPDM o-ring sealing gasket		EN681-1	Max Temp 110° C Min Texp--20° C	Crimping type M & V press

Pipe and fitting range

OD (in mm)	Thickness (in mm)
15	1.0
22	1.2
28	1.2
35	1.5
42	1.5
54	1.5
76.1	2.0
88.9	2.0
108	2.0

Maximum Pressure : 16 bars with tested pressure upto 25 bars.

The Tools

Designed for effortless handling, the tools make working fast and easy even the most challenging environments.

Pipe Cutting Tool

For an ease of cutting the stainless steel plumbing pipes, the mechanical cutting tool is available in 2 sizes (15-25 mm and 32-50 mm) with the long-lasting changeable cutting blades. The tool is just fitted on the pipe at the required length and rotated.



Installation:

The simplicity of the Installation makes it a fast and a very efficient process.



1

The tube is cut to required length using mechanical cutting tool

2

The tube is pushed into the stainless steel press fitting to the maximum limit



3

The jaws of the electro-mechanical press tool is fitted on the press fitting. A single button operates the press tool to make the joint



4

The finished joint is checked using a gauge



Pressing Tool

Electro- Mechanical Press Tool

The press tool consists of an electro-mechanical unit and a set of 5 jaws. There are ways of making the pipe connections in different sizes:



- Mains operated electro-mechanical pressing units
- Self-monitoring sensor system
- Manual pressing unit is also available
- A set of pressing jaws for the particular pipe size is fitted into the pressing unit. The automatic pressing unit ensures the required force



A set of pressing jaws enables pressing of any size of fittings.

* The brand of tools may change as per company's discretion

Did you know?

More than 40% of treated water is lost due to leaky pathways and faulty plumbing system

The water isn't that impure as the pipe that makes it impure

An invisible leak in plumbing will waste up to 15 gallons of water a day

A leak the size of a pinhead can waste 360,000 gallons per year

FAQs

Why Stainless Steel for plumbing?



Sustainable. Smart. Secure.

Fully recyclable, cost-effective, and resistance to corrosion makes it the most hygienic option for waterways. Since stainless steel does not require any painting, it does not affect with the properties of treated water. Due to its protective passive film, stainless steel is basically inert in potable water.

Is the material lightweight?

The press fitting technology uses thinner pipes joined by pressing instead of threaded joints. This reduces the thickness of the wall. Since, the material has high strength, it is able to withstand more stress than GI and can take pressure upto 25 bars.

Is welding required to install this?

The Jindal Stainless Steel Integrated Plumbing System is quick and easy to install. No welding or threading is required. Only a hydraulic or electromechanical pressing tool is needed for the installation.

How long will these systems last?

50 years with minimum interference. In comparison to existing plumbing solutions, stainless steel provides superior maintenance life. No maintenance is required after installation, reducing system downtime, replacement and maintenance costs over the life cycle of the installation.

Is it eco-friendly?

Unlike cement lined and non-metallic pipes, stainless steel is easily recycled and their alloy content is highly valued. Recycled stainless steel and other recycled ferrous materials are used in the melting process to produce stainless steel, which has an average recycled content of approximately 60%.