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JINDAL
arc PLUMBING

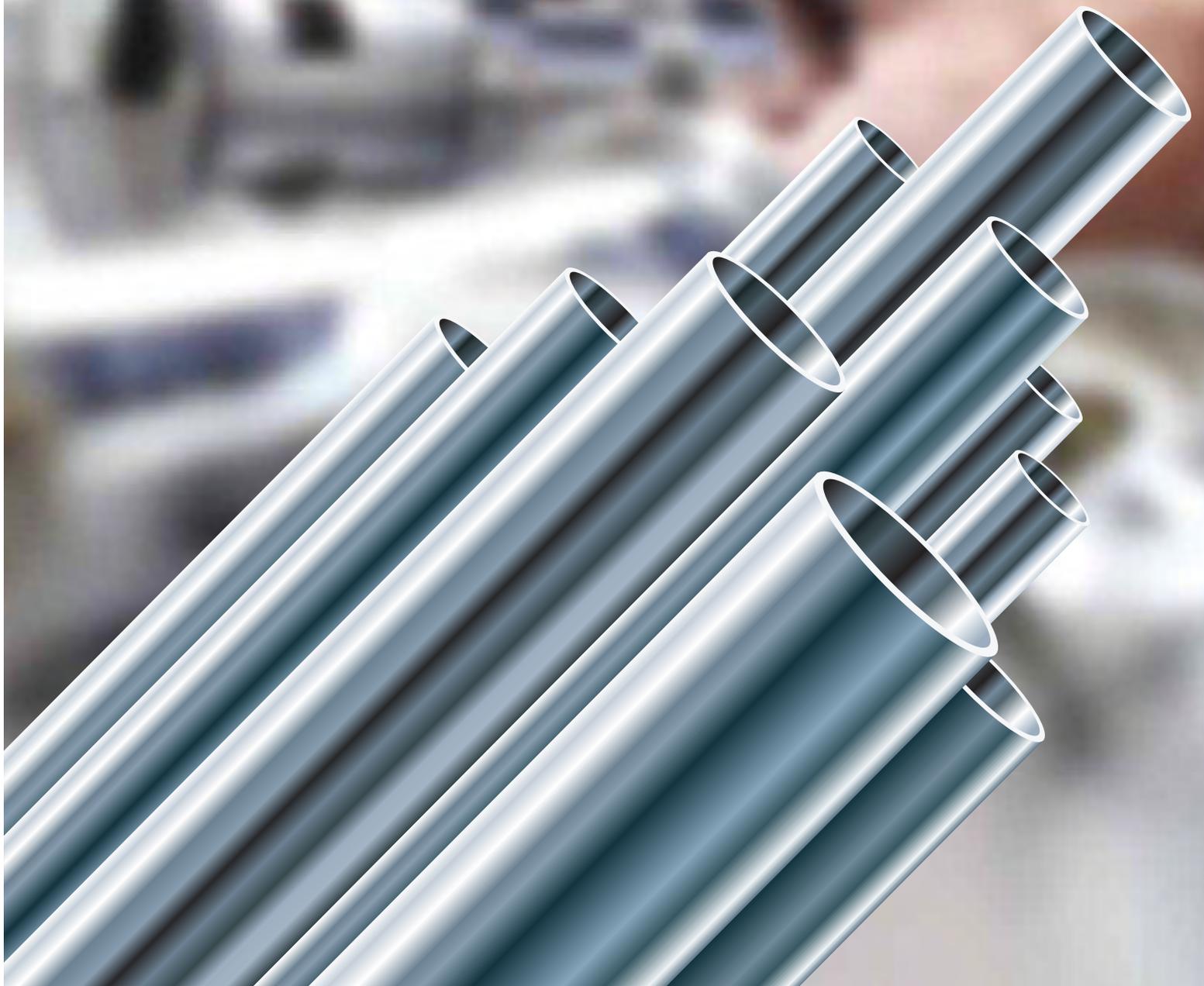
**STAINLESS
SUSTAINABLE
SAFE
EN 316L**



STAINLESS STEEL

INTEGRATED

PLUMBING SYSTEM



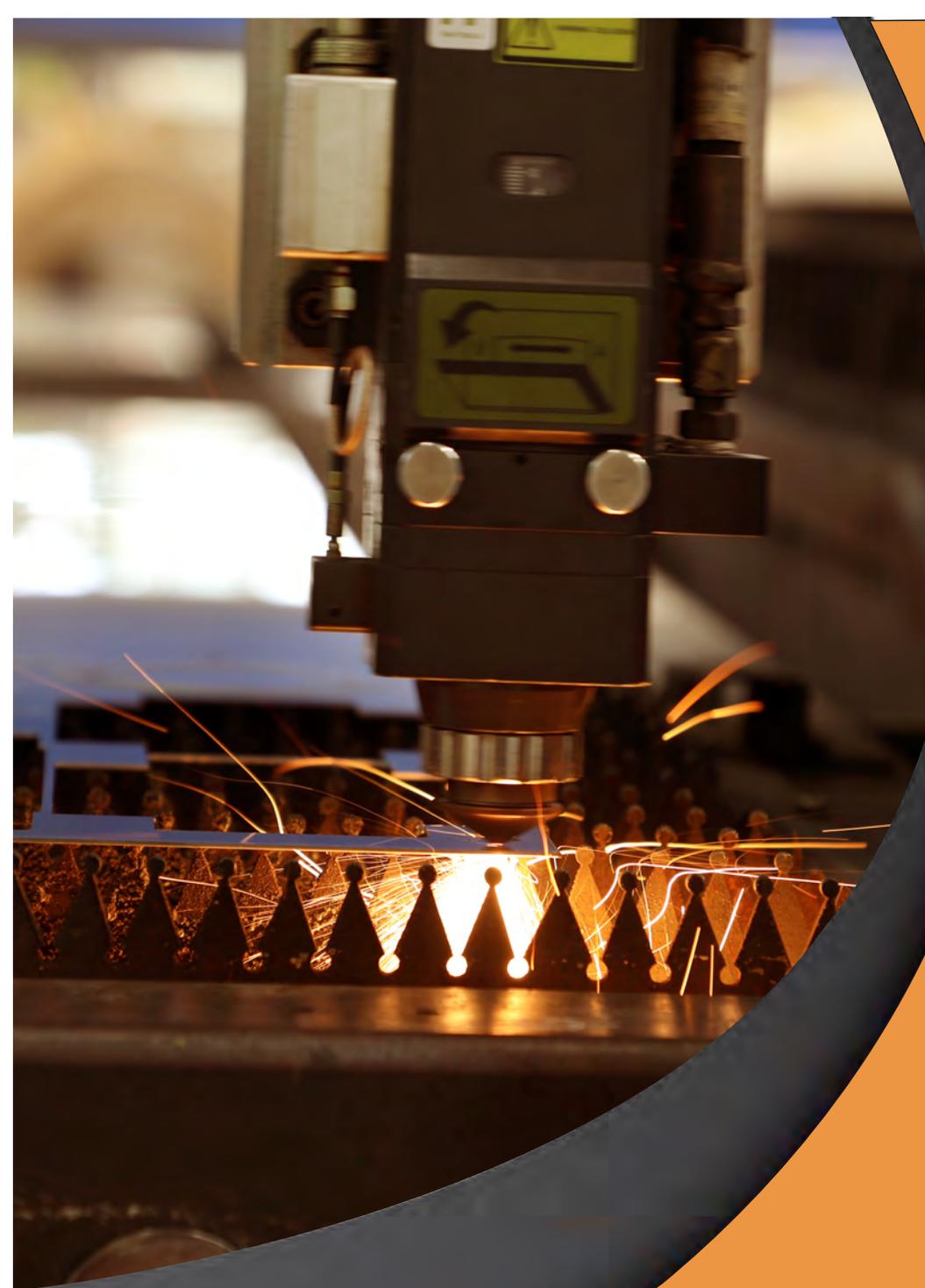


HERITAGE OF JINDALS

Established in 1970 by steel visionary Mr OP Jindal, Jindal Group has panned across 50+ countries marking a global footprint and positioned as top 5 business conglomerates in India. The group is backed by a workforce of diverse professionals, churning business of over \$25 billion annually.

Jindal Stainless is an eminent part of the massive Jindal Group, contributing a staggering INR \$2.9B annually through its varied businesses. It is one of the world's largest integrated manufacturer of stainless steel. The group has a state-of-the-art stainless-steel plant in Odisha and is a market leader in galvanized steel and saw pipes.

JSL Lifestyle (JSLL) is an absolute subsidiary of Jindal Stainless Ltd, founded 15 years ago, dedicated towards finished products of stainless steel. JSLL is committed to creating an 'aspirational stainless culture' in India in both B2C and B2B domains. It strives to bring richer life experiences by infusing modern functionalities and designs into stainless steel. With our state-of-the-art massive manufacturing capabilities in Chennai, Rohad and Pathredi, we deliver scale, quality and finish of global repute.



LEGACY OF ABSOLUTE INTEGRATION

JSL Lifestyle is India's largest integrated stainless solution provider, proffering a range of products and services through its diversified verticals - JSLL Value Engineering (in OEM services), JSLL Mobility (public sector manufacturing projects especially Indian Railways), JSLL Infra (urban development projects), JSLL Plumbing (stainless plumbing solutions), Arc (masstige stainless kitchens and tableware brand), and Arttd'inox (a premium designer home fashion lifestyle brand) extending kitchens and homeware solutions.

ABOUT US

JINDAL arc PLUMBING

An integrated plumbing solution provider in stainless steel with comprehensive pipes and fitting solutions in grade EN 316L and JIS 304 & 316L, guaranteeing quality products with easy installation.

JINDAL arc KITCHENS

A recent addition in our home-lifestyle business, Arc is a revolutionary stainless steel kitchen brand positioned in a mass-prestige segment in the Indian retail landscape

JINDAL arc INFRA

It provides a wide variety of infrastructural products such as Railings, Facade, Claddings, BQS, Structures, Benches, Dustbins, Toilets, Sanitary Solutions etc. with a dynamic and versatile service outlook.

JSLL — MOBILITY —

JSLL Mobility is the tender-based manufacturing arm that caters to the mobility sector, especially Indian Railways and Delhi Metro with a wide variety of products like retention tanks, coaches, chassis etc.

arttdinox

India's first um segment proffering a broad home-ware and home-space range for its patrons, comprising of Tableware, Home Décor, Bespoke Kitchens, Vanities and Wardrobes.

JSLL — VALUE ENGINEERING —

Assisting a variety of companies in procuring stainless steel products and components across industries, it extends exhaustive capabilities and aggressive support in product development and delivery.



JINDAL arc PLUMBING

We are an integrated plumbing solution provider that extends precisely engineered steel pipes and fittings. We deliver solutions that transform job-site efficiencies by understanding the needs of plumbing contractors both from a large project perspective to a single application.

In today's world, where consumers are well exposed to the healthy way of living, stainless steel is becoming a way of life. After generations, the present world millennials are returning to the old ways with modern sensibilities. Our entire product range is exclusively in 316L grade stainless steel. Given that stainless steel is widely known as 'Green Metal', it is the only metallic material that is suitable for 'drinking-water pipes'. With the best in class manufacturing capabilities, global technologies and best in class quality standard assurance, JSLL Plumbing is your one-stop solution for all the plumbing requirements. Being resistant to corrosion and high on hygiene maintenance, the stainless-steel pipes preserve water from contaminating.

INHERITED BUSINESS EDGE

- Backed by the House of Jindals, the largest producer of stainless steel in India.
- Backward integration of raw material for most of our products. The strong legacy of operating in 'stainless-steel' for decades.
- Forward integration with our retail footprint. Honing business partner relationships with long-term vision and perspective.
- 100% customer satisfaction focus and compliance with customer SOP for each process.

**SUSTAINABLE
AND SAFE
SOLUTION
IN STAINLESS**

POWERFUL VALUE PROPOSITION

FOR CONSUMERS AND BUSINESS PARTNERS

JSLL Plumbing provides sustainable solutions for the versatile domestic market panning from residential to commercial projects in pure stainless-steel, straight from the House of Jindals. Our well-oriented global technology along with the best in class quality assurance extends the exhaustive range for varied use, stretching aggressive support in project development. With the products in exclusive 316L grades, we deliver customer satisfaction with the best quality. Our seasoned and resourceful team is well aligned with the industry needs and extends solutions efficiently in diverse projects.

WHY US?

- Leading player in stainless steel space operating in both B2B and B2C space.
- Best in class product portfolio catering to all plumbing needs in SS
- State-of-the-art plant with the ability to serve large quantities in short lead time
- Self-reliant group securing competitive pricing
- Strong in-house designing, tooling and sourcing capabilities of global repute
- Zero compromises on product quality
- High level of innovation & technological advancement

DOMINANT PRODUCT EXCELLENCE

- Wide variety of sizes to suit all need
- Top-notch technology for reliability
- High-quality standards
- Secures home investment and ensures project longevity
- Zero compromises on material grades for high quality, longevity and durability
- Sustains treated, softened, rain, distilled, osmosised, de-carbonated, de-mineralised & de-ionised water
- Seamless locking with revolutionary 'press-fitting' systems
- Easy and hassle-free installation with no flame required
- Ensure drinking water integrity
- Designed for minimum 50 years of service
- Fire-resistant, leak-proof and non-toxic

WHERE TO USE?

Distribution of Potable Water in Buildings

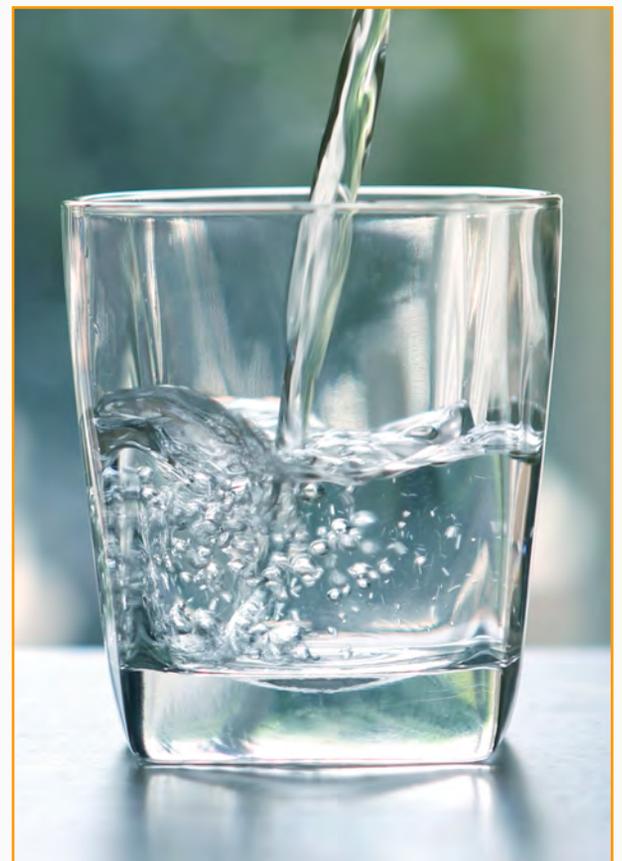
Distribution of Gas in Buildings

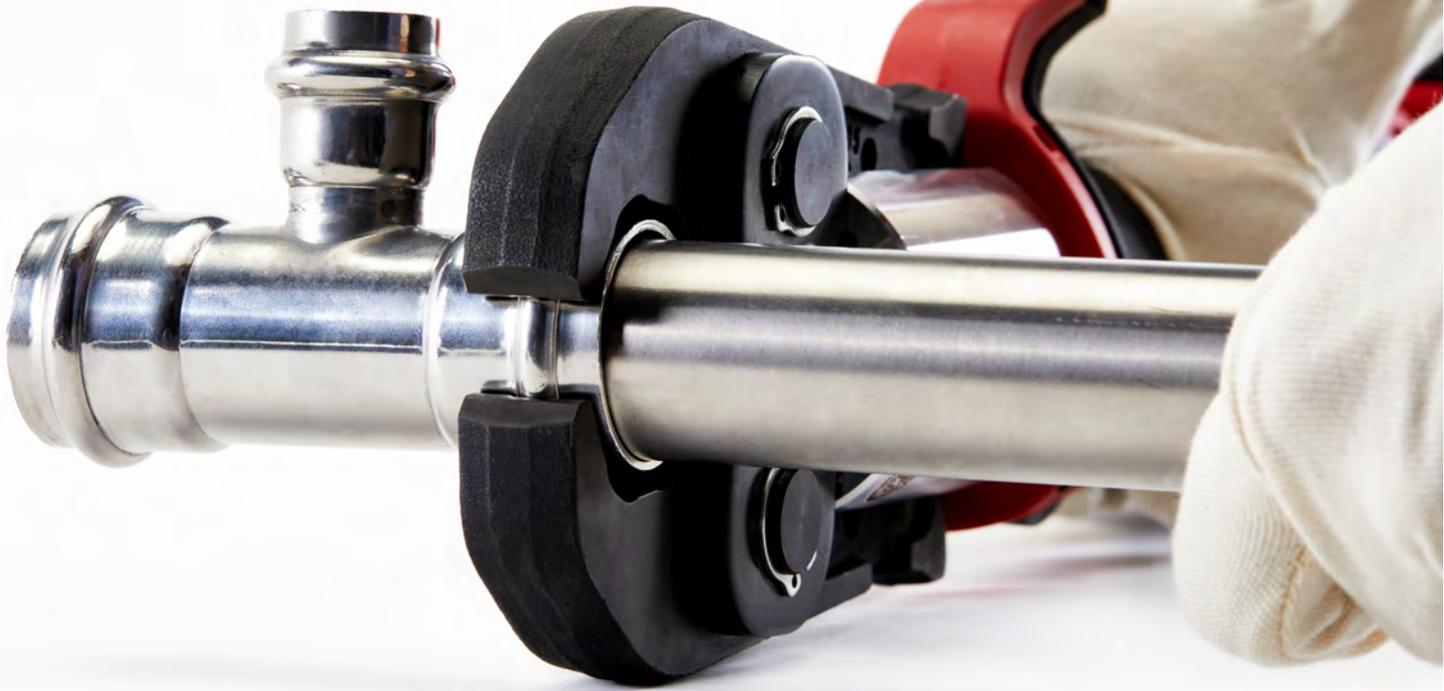
Plumbing Systems in High-Rise or Independent Projects –

- Commercial (Hospitals, Offices, Hotels, Conveniences)
- Industrial
- Residential

Niche Naval Construction Projects:

Niche construction of Offshore projects





BROAD RANGE IN PLUMBING TO SUIT ALL NEEDS NEEDS IN EN 316L

Comprehensive range of stainless steel plumbing solutions, together with pipes, fittings and press tools , taking care of all plumbing requirements.

Pipes Sizes: from 15 mm to 108 mm diameter

Material: Austenitic Stainless Steel with a composition of X2CrNiMo17-12-2

Special Manufacturing: Electric Resistance Welding(ERW) Process of Manufacturing

Quality Oriented: 316L grade of SS manufactured according to EN 10312 standard

Fittings: Available in various sizes from 15 mm to 108 mm diameter

* Pipes and fittings are also available in JIS 316L on demand.

PRODUCT OVERVIEW

END CAP

SIZE
OD15
OD22
OD28
OD35
OD42
OD54



SOCKET

SIZE
OD15
OD22
OD28
OD35
OD42
OD54



90 ELBOW

SIZE
OD15
OD22
OD28
OD35
OD42
OD54



45 ELBOW

SIZE
OD15
OD22
OD28
OD35
OD42
OD54



PRODUCT OVERVIEW

EQUAL TEE

SIZE
OD15
OD22
OD28
OD35
OD42
OD54



REDUCING TEE

SIZE
OD22X OD15
OD28XOD15
OD28XOD22
OD35XOD15
OD35XOD22
OD35XOD28
OD42XOD15
OD42XOD22
OD42XOD28
OD42XOD35
OD54XOD15
OD54XOD22
OD54XOD28
OD54XOD35
OD54XOD42



CROSSOVER

SIZE
OD15
OD22



PRODUCT OVERVIEW

TEE FEMALE THREAD

SIZE
OD15xRp1/2
OD22xRp3/4
OD28xRp1
OD35xRp11/4
OD52xRp2



TEE MALE THREAD

SIZE
OD15xR1/2
OD22xR3/4
OD28xR1
OD35xR11/4
OD42xR11/2
OD54xR2



MALE TRANSITION ELBOW

SIZE
OD15xR1/2
OD22xR3/4
OD28xR1



FTE

SIZE
OD15xRp1/2
OD22xRp3/4
OD28xRp1



PRODUCT OVERVIEW

MTA

SIZE
OD15XR1/2
OD18XR1/2
OD22XR1/2
OD22XR3/4
OD28XR1
OD35XR11/4
OD42XR11/2
OD54XR2



FTA

SIZE
OD15XRp1/2
OD18XRp1/2
OD22XRp3/4
OD28XRp1
OD35XRp11/4
OD42XRp11/2
OD64XRp2



UNION FEMALE

SIZE
OD15XG1/2
OD18XG1/2
OD22XG3/4
OD28XG1
OD35XG11/4
OD42XG11/2
OD64XG2



SLEEVE COUPLING

SIZE
OD15
OD22
OD28
OD35
OD42
OD54



FIRM TECH DILIGENCE FOR SUSTAINABLE DELIVERY

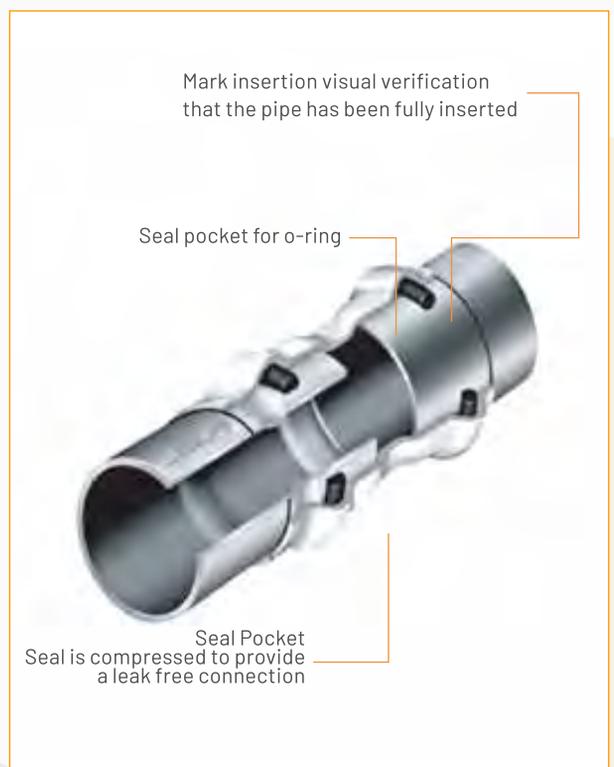
Product	Grade	Standard	Recommended For	Recommended Application
Pipe	EN 316L X2CrNiMo17-12-2	EN 10312	<200 ppm of chloride	Potable water, drinking water, cold and hot water applications, especially effective for coastal region.
Fittings				
EPDM o-ring Sealing gasket		681-1	min temp -20°C max temp 110°C	Crimping type V-Press
Pressure	Working pressure 16 bars & tested up to 25 bars			
Material Code	1.4404 (316L)			

HIGH-TECH PIPE MANUFACTURING

1. Longitudinal electro-welding in neutral atmosphere.
2. Checked with the eddy current system with procedures s.e.p. 1914 & s.e.p 1925.
3. Dimensional tolerances of the product conform to EN 10312 standard.
4. Pipes are marked with indelible inks and plugged on both ends.
5. Marked with producer logo, material details, product dimensions and heat number.

FINEST FITTING PROFILE

1. Made according to the specification of DVGW W534 (SS fittings for drinking water).
2. Type of profile adopted is "v-press" with hexagonal pressing.





GASKETS SEALS-O-RING

1. O-ring is made up of EPDM (ethylene propylene diene monomer).
2. Ensures safe and durable use for civil and industrial applications.
3. Maximum operating temperature handled by sealing gaskets is 110°C.
4. EPDM O-Ring complies with International standard EN 681-1.

PIPE AND FITTING RANGE DESCRIPTION (IN MM)

NB	15	22	28	35	42	54	76.1	88.9	108
Thickness	1.0	1.2	1.2	1.5	1.5	1.5	2.0	2.0	2.0

EXTENSIVE RELEVANCE WITH SUPREME QUALITY



FIT FOR DRINKING WATER

Clean | Safe | Uncontaminated



SUITABLE FOR FIRE PROTECTION

Suitable for firefighting & sprinkler systems with pressure up to PN 12



APT FOR HEATING/ COOLING

With stands temperature from -20 C to 110 C



THE PRESS-FIT SYSTEM IS SAFE & HYGIENIC

Our press-fit system is safe and beneficial in all applications for drinking water



SUITABLE FOR COMPRESSED AIR/GASES

Working pressure 16 bars & tested up to 25 bars

WORLD OF BENEFITS



Seamless
Connection Of Pipes
To Fittings



Health and
Hygiene



Corrosion
Resistant



Light Weight



Easy To Install



Recyclable



No Maintenance



Longevity



Leak-Proof



Safe

EPDM polymer is non-resistant to combustible gases, oil, gasoline, turpentine & hydrocarbon in general.

COMPARISON OF VARIOUS PLUMBING MATERIALS

Parameter	GI	PPR	CPVC	Copper	Stainless Steel	Remarks
Maintenance Free Life	+	+++	++	+++	+++++	No need of replacement for up to 50 years
Saves Installation Time	+	+++	+++	++	+++++	Fast to install (approx. half time of GI piping)
Earthquake Proof	+++	++	++	+++	+++++	Withstands vibrations and shocks due to its ductile nature
Corrosion Resistant	+	+++++	+++++	++++	+++++	Offers best corrosion resistance
Ease of Installation	++	++	+++	++	+++++	Fast installation with very few workers

+- Poor | +++++ - Best

Parameter	GI	PPR	CPVC	Copper	Stainless Steel	Remarks
Cleanability	+	++	++	++++	+++++	No deposit buildup due to smooth surface
Fire Resistant	++++	+	+	+++	+++++	Withstands high temperatures
Water Quality Effect	+	++++	++++	++++	+++++	No change in water quality during storage
Application Range	+++	++	++	++++	+++++	Used for passages of air, water and various other gases
Cost	++	+++	+	+++++	+++++	Offers Best Life Cycle Value

+ - Poor | +++++ - Best



COMPETENT TOOLS FOR EFFICIENT PERFORMANCE

The tools are designed for effortless handling and installation of the system, even in the most challenging environments.

CUTTING TOOL

Irrespective of the site complications, our tools are designed for effortless handling and installations. Our mechanical cutting tool comes in 3 sizes (15 - 40 mm, 15 - 64 mm and 15 - 108 mm), with a long-lasting changeable cutting blade. The tool is just fitted on the pipe at the required length and rotated.





A set of measuring gauges and pressing jaws enables pressing of any size fittings.

PRESS TOOLS

Our electro-mechanical pressing tool consists of an electro-mechanical unit and a set of 5 jaws. While there is a choice of making the pipe connections in different size ranges, we extend it to a range of 3 electro-mechanical press tools:

1. Mains operated electro-mechanical pressing units
2. Self-monitoring sensor system
3. Manual pressing unit





EASY INSTALLATION PROCESS

A set of pressing jaws for the pipe size is fitted into the pressing unit. The automatic action of all pressing units always ensures the required maximum force is applied on the jaws or collars reliably.

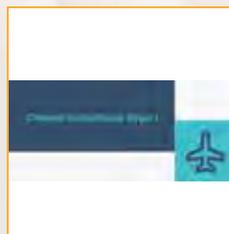
INSTALLATION

1. Tube is cut to the required length using the mechanical cutting tool.
2. Tube is pushed in the stainless-steel press fittings until the tube stops.
3. Jaws of the electro-mechanical press tool are then fitted on the press-fitting where a single button operates the press tool and the joint is crimped.
4. The crimped joint is checked using the gauge.



Disclaimer : The brand of tools may change as per company discretion.

OUR KEY CLIENTELE



JINDAL
arc PLUMBING

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Disclaimer : The technical data are not binding and not expressly warranted characteristics of the goods. These are subject to change. Please consult our general conditions of supply. Additional information is available upon request. It is the designer's responsibility to select product suitable for the intended service and to ensure that pressure ratings and performance data is not exceeded. Always read and understand the installation instructions.