



Building  
Future

**J-Press<sup>®</sup>**

The Best Piping a Building Can Get

**HYGIENE | RELIABILITY | SIMPLICITY**

*Stainless Steel Double Crimping Technology*

**50 Years Warranty\***

**Practical by Design**



\*for stainless steel 316L



## Company Profile

J-Steel Systems Pvt. Ltd. was established in year 2010 for marketing of innovative Press-Fit Stainless Steel plumbing System in North India. The commitment to the quality of the product and the services provided by the company helped it to grow rapidly and establish good marketing network in India. "J-Press is the first brand in India to be approved by CPWD for the prestigious projects like IISER STPI, etc. It has been used in MES projects, paramilitary forces projects like CRPF, etc. Now, the Company has taken the initiative to launch top of the line technology in Stainless Steel piping in India with Double Crimping Technology.

The Company is headed by Pravin Goel (an Engineer and MBA from MDI), the renowned expert in Stainless Steel, Having been given Gold Medal by Sugar Technologist Association for pioneering work in SS, a consultant who worked with Railway Designers for promoting SS use in Railway coaches, and the person

who brought the World class Press-Fit technology in Stainless Steel in India. J-Press, is the brand that brings the best piping technology in India at a reasonable price and targets the Good Quality infrastructure projects of long lasting importance, high end residential projects, Hospitals, Hotels, industries and Commercial Projects.



## Main Benefits of J-Press Piping System with V-Profile:

- **Hygiene:** Stainless Steel being corrosion resistant having anti-bacterial properties is known for its Hygiene Value
- **Innovative Press Fit Technology** with double crimping (V-Profile) helps protect 'O' ring from damage or displacement
- **Reliability:** Long Maintenance Free life of 50 years (304 grade in Drinking water and 316L for all water types)
- **High Pressure Rating:** Design Pressure of 25kgf/cm<sup>2</sup>, more than any other piping system
- **High Flow Rate:** C-Value of 150 means that a lower diameter of pipe will give a better flow rate of water as compared to GI or Plastic pipes
- **High Rise Buildings:** Suitable (Rather most reliable option for High Rise Buildings which are more than 6 storeys as it has lowest coefficient of thermal expansion as compared to Plastics)
- **Impact Resistance:** Makes this piping system Earthquake Proof as well as prevent drilling of pipelines by mistake
- **Ease of Installation:** No Welding or Threading make special skills unnecessary. Fast installation time.

## Applications of J-Press Piping Technology

- **RO Water System**
- **Residential:** High Quality Residences, Farm Houses, High Rise Apartments: which want trouble free and cost effective piping.
- **Hospitals:** OT theatre, Water Supply, Gases, Fire Fighting System
- **Hotels:** Water Supply, Fire Fighting System
- **Industry:** Compressed Air, Process Water, Solar Water, Cooling pipes, Water Treatment Plants
- **Infrastructure Projects:** Public building with heavy usage







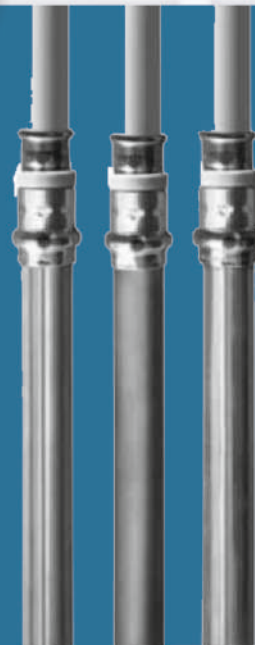
### Grade 304 of J-Press Applications

Suitable for RO water, treated drinking water, Compressed Air, Medical Gases, Solar water, Fire Fighting System with Chloride levels upto 200ppm and dissolved free chlorine upto 2 ppm

Suitable for Underground as well as concealed applications including Main Water Supply Systems

### Grade 316L of J-Press Applications

All applications as mentioned under 304 Grade  
Water of Borewell, higher Chloride content upto 1000ppm  
Suitable for Drainage Water, Chemical Industry, Pharmaceutical, and Industrial applications



### Product Specification:

**Pipe Grades: 5S 304, SS316L as per IS 6911:2017, ASTM/A312M**

Pipe Standard Fitting Standard	EN 10312 DVGW W534		JISG 3448 JWWA G116	
	OD	Thk	OD	Thk
Normal				
1/2"	15	1.0	15.88	0.8
3/4"	22	1.2	22.22	1.0
1"	28	1.2	28.56	1.0
1-1/4"	35	1.5	34.0	1.2
1-1/2"	42	1.5	42.7	1.2
2"	54	1.5	48.6	1.2
2-1/2"	76.1	2.0	76.1	1.5
3"	88.9	2.0	88.9	2.0
4"	108	2.0	108	2.0

### Specifications for Tender Document

Providing and fixing Stainless Steel Grade AISI 316L / AISI 304 pipes confirming to JIS G3448, JWWA G116, complete with "Press- Fit" V-Profile joining system (double crimping), EPDM O-ring for Hot and Cold water supply (brand "J-Press") capable to withstand temperature upto 110 degree centigrade along with fittings, such as sockets, bends, elbows, tees, reducers, unions, flanges, etc. necessary adapters for SS / GI / Copper and CP fittings, complete.





### Types of Fittings



Coupler



Male Adapter



Female Adapter



Reducer



Elbow



Male Elbow



Slip coupling



Pipe Bend



Angle Adapter



Valve Connector



Tee



Female Tee



Reducing Tee



Cap

### Types of O Ring and applications

Material	Temperature Range	Color	Application
EPDM	-50 C TO 120 C	Black	Drinking Water, Compressed Air, Solar Water, Fire system etc.
HNBR	-20 C TO 70C	Yellow	Petroleum Products, LPG, Forced Air Systems, Gas Installations ( Available on request only.





Building  
Future

**J-Press®**

The Best Piping a Building Can Get



Tooling Partner - Novopress | [www.novopress.de](http://www.novopress.de)



**Crimping Tools**



**Crimping Tools**



**Pipe Cutter**



**Installed View**

### Fittings manufacturing Process



**Cutting**



**Bending**



**Forming**



**Leak Testing**



**Machining**



**Annealing Furnace**



**PIPE MANUFACTURING**



**Pipe Hydrotesting Machine**

[www.JPress.in](http://www.JPress.in)



## CHEMICAL COMPOSITION

Steel Grade	Carbon (C)	Manganese (Mn)	Phosphorus (P)	Sulphur (S)	Silicon (Si)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)
304	0-0.08%	0-2%	0-0.045%	0-0.03%	0-1%	18-20%	8-10.5%	-
316 L	0-0.04%	0-2%	0-0.045%	0-0.03%	0-1%	16-18%	10-14%	2-3%

Steel Grade	0.2% Proof Stress MPa	Tensile Strength MPa	Elongation %	Hardness Test (HRB max)
304	230	540-750	45	80
316 L	240	530-680	40	79

## PHYSICAL PROPERTIES

AISI Type No.	Melting Point Range (°C)	Density (g/cm³)	Average Coefficient of Thermal Expansion (x10⁻⁶/°C)		Thermal Conductivity (cal/cm-sec°C)		Specific Heat (cal/g°C)	Electric resistivity (Ohm cm) R-T	Vertical modulus of elasticity	Magnetism
			0-100°C	0-650°C	100°C	500°C				
304	1399-1454	8.03	17.3	18.7	0.0388	0.0512	0.12	72	19.7	No
316-L	1371-1399	8.03	16	18.5	0.0388	0.0512	0.12	72	19.7	No

\* Source : Nickel Institute, European Stainless Steel Development Association

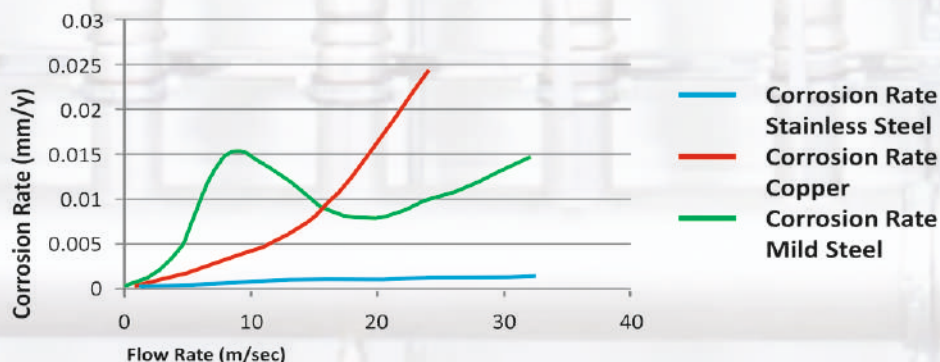
The Pressure rating for stainless steel Pipe for general service is 16 kg/cm² design. However, the pipes have been found capable enough to withstand fluid pressure as high as 25 Kgf/cm² (355 psi).

## CORROSION RESISTANCE OF STAINLESS STEEL & OTHER MATERIALS

Physical Properties of Pipe Materials (Reference Values)

	Specific Gravity	Average Coefficient of Thermal Expansion (x10⁻⁶/°C) (0-100°C)	Thermal Conductivity (cal/cm-sec °C) (100°C)	Specific Heat (cal/g°C) (0-100°C)	Electric resistivity (micro-Ohm-cm) (Room Temperature)	Young's modulus (kg/mm²)	Magnetism
Carbon Steel Pipe for Ordinary Piping	7.86	11.6	0.142	0.115	14.2	21000	Yes
Phosphorus Deoxidized Seamless Copper Pipe	8.96	17.6	0.934	0.092	1.71	11000	No
Unplasticized Polyvinyl Chloride Pipe	1.43	70	0.12x10⁻³	0.035	<=10x10¹⁴	-	No
Heat-Resistant Unplasticized Polyvinyl Chloride Pipe	1.56	70	0.11x10⁻³	0.25	<=10x10¹⁴	-	No
Stainless Steel Pipes for Piping	7.93	17.3	0.039	0.12	72	19700	No

### Effect of Water Velocity on Corrosion Rate



Source: Nickel Development Institute • Stainless Steel corrodes the least at high flow rates



## Now Introducing for Large Size Pipes

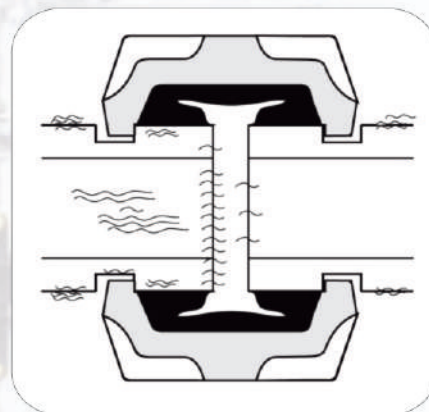
### Grooved Piping System in Stainless Steel

A grooved pipe joint is comprised of four elements: the grooved pipe, the gasket, the coupling housing, and the nuts and bolts. The groove is made by cold forming or machining a groove into the pipe ends. A gasket encompassed by the coupling housing forms a seal on the two pipe ends, and the key sections of the coupling housing engage the grooves. The bolts and nuts are tightened with a socket wrench or impact wrench. In the installed state, the coupling housing encase the gasket and engages the grooves around the circumference of the pipe to create a leak-tight seal in a self-restrained pipe joint. There are two basic coupling styles that can be used on grooved pipe: flexible and rigid.



### Benefits of Grooved Piping System in Stainless Steel :

1. Faster Pipe Joints
2. Ease and Speed of Maintenance
3. Union at every Joints Offers Flexibility
4. Reliability
5. Economical to install
6. Reduced Noise and Vibrations
7. Corrosion Resistant thin Walled pipes (cheaper to use)



### Stainless Steel Fittings:



### Applications:

Main Water Supply, Pump Room piping, Chilled, Hot, & Cold Water, Fire fighting Systems, Air Handling Units

Materials Available: SS 304, SS 316, SS 439,

For Details Please Contact : +91 8800 30 4400 or request for detailed presentation

Building  
Future

**J-Press®**

The Best Piping a Building Can Get

---

**J-Steel Systems Pvt. Ltd.**

---

**Factory Address :**

Khasra No. 176/1 6/3 Village  
Darabaripur, Sector-75  
Gurgaon - 122106  
jpress.pg@gmail.com

**Registered Office :**

J-Steel Systems Pvt. Ltd.  
P-20, First Floor,  
Uppals Southend, Sector-48,  
Gurgaon - 122018 INDIA

---

**PRAVIN GOEL**

**Contact us at Mob. +91 8800394400, +91 8800304400**

**E-Mail: [jsteelsyspl@gmail.com](mailto:jsteelsyspl@gmail.com) | Website: [www.jpress.in](http://www.jpress.in)**

**CIN : U27100HR2013PTC050080, PAN - AADCJ1757D GST - 06AADCJ1757D1ZU**