







EN 316L Stainless Steel Water Pipes and Fittings





# **VISION**

InstaPressfit® envisions itself as a premier manufacturer\* in the pipes and fittings sector, distinguished by our commitment to excellence, trusted partnership and the delivery of costeffective, high-quality products.

# **MISSION**

At InstaPressfit®, our mission is to set new benchmarks in the pipes and fittings industry by delivering cost-effective products that cater to a wide market segment. We achieve this through innovative, technically advanced production processes that prioritize quality, safety, hygiene and durability.



#### From The CEO's Desk:

Dear Friends,

As a CEO of a leading Stainless-Steel pipes & fittings manufacturer company, I bring over two decades of proven success in guiding ventures and reshaping industry landscapes.

My expertise spans business development, management, team leadership, channel management and institutional sales. With a steadfast commitment to excellence, our company propel to new heights through strategic insights & dynamic relationships. Through a fusion of innovation and operational acumen, I lead our team in delivering unparalleled quality and service, ensuring our position as pioneers in the pipes and fittings sector.

Together, we forge pathways for sustainable growth while exceeding customer expectations at every turn.

Wired Vanshney

Nimit Varshney

**Chief Executive Officer** 

Aaira India LLP.

#### **Our Collaboration With Hisar Metal Industries Ltd.**

At Insta Pressfit®, we are committed to delivering the highest-quality stainless steel pipes to our customers. To enhance our capabilities and ensure the superior quality of our products, we have partnered with **Hisar Metal Industries Ltd.**, one of the renowned steel manufacturers in India, since 1991. They have 35 years of experience in the steel industry. This collaboration allows us to leverage Hisar Metal's advanced manufacturing techniques and premium materials, ensuring that our stainless steel pipes meet the highest industry standards.

We have collaborated with Hisar Metal to produce best quality stainless steel pipes. Our combined expertise ensures that we stay at the forefront of the stainless steel plumbing industry, providing solutions that address our client's changing demands.

Get the quality that results from our partnership with Hisar Metal, and put your confidence in us for all of your stainless steel pipe needs.









Suitable for drinking water as per IS 10500

# Why InstaPressFit®?

**Safety:** EN 316L & 304 JIS Stainless steel is an inert material. It is resistant to corrosion and will not react with toxic chemicals that sometimes seep into the ground. Furthermore, it prevents the growth of algae, fungus and is resistant to most bacteria. These qualities make EN 316L & 304 JIS stainless steel the ideal material for pipes that contain drinking water.

**Hygiene:** The EN 316L & 304 JIS stainless steel used for **InstaPressfit®** is of top quality. It is the same stable, high quality steel that is used in hospitals across the world in replacement surgeries. **InstaPressfit®** pipes, once installed, will last for decades and will deliver a consistent level of safety throughout without fear of scaling and bad odour.

Quality & Innovation: EN 316L & 304 JIS Stainless steel has a high tensile strength. Pipes & fittings made from this material are of highest quality and last for decades. Our quality is our topmost priority. Our manufacturing processes and technology focus on making the joints resistant to damage even under high water pressure.

Our cleverly designed fittings can be installed by any plumber using our specially designed hydraulic crimping tools. The installation of our pipes & fittings is quick and hassle-free.

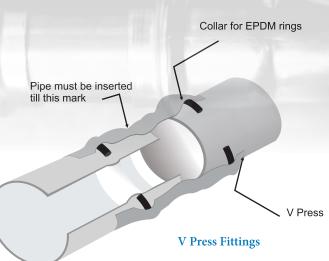
**Affordability:** We, at **InstaPressfit®**, believe that the benefits of our products far outweigh their cost. But to make them easily available and within reach of the Indian market, we have regulated the prices of our pipes & fittings. **InstaPressfit®** is not only revolutionary, but it is affordable too.





# Instapressfit<sup>®</sup> EN 316L & 304 JIS Stainless Steel Plumbing System

The integrated plumbing system consists of EN 316L & 304 JIS stainless steel pipes & fittings for distribution of water in various segments namely residential, commercial, industrial etc. It is available in all normal sizes used in Indian Market.



#### **Insta Uncrimped Fitting Indicator (IUFI) Technology**







Use high speed blade to cut the pipe.

1

Cut the pipe in round shape.

2

The edges of pipe should be smooth to prevent damage to the gasket.

3

Pipe should be inserted till the end of the fitting.

4

Keep the fitting collar in the middle point of certified crimping tool.

5

Press the certified crimping tool till both face of tool jaw.

6

Look at the IUF Inducation



#### **Crimping Tool**

Height : 203mm

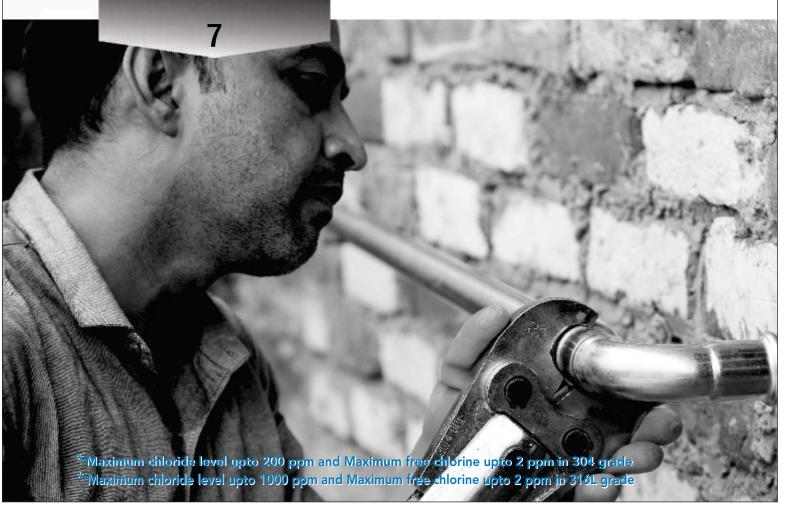
Length : 395 mm

Width : 81 mm

Weight : 3 kg

Compression Range: 54mm







#### 304 JIS

l	Pipe Size	Pipe Outer Diameter (MM)	Pipe Wall Thickness (MM)
	1/2"	15.88	0.80
_	3/4"	22.22	1.00
	1"	28.60	1.00
	1-1/4"	34.00	1.20
	1-1/2"	42.70	1.20
	2"	48.60	1.20
	2-1/2"	76.10	1.50
	3"	88.90	2.00

#### 316 L EN

Pipe Size	Pipe Outer Diameter (MM)	Pipe Wall Thickness (MM)
1/2"	15.00	1.00
3/4"	22.00	1.20
1"	28.00	1.20
1-1/4"	35.00	1.50
1-1/2"	42.00	1.50
2"	54.00	1.50
2-1/2"	76.10	2.00
3"	88.90	2.00

\* Pipe as per EN 10312

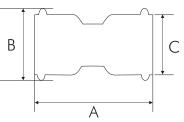
#### **EPDM details for Water Plumbing**

Material	Percentage	Function
EPDM Rubber	32.00%	
Fillier (Calcium Carbonate)	16.00%	Stabilize, avoid D-shaper of rubber
Reinforce (N330, N550)	31.20%	Provide crack resistance
Softener (Paraffine Oil No300)	15.20%	Avoiding penetration due to moisture
Accelerator	01.12%	Provide high physical property
Vulcanizer	00.64%	Provide weather resistance and ageing resistance
Other	03.84%	To give shape
Total	100.00%	

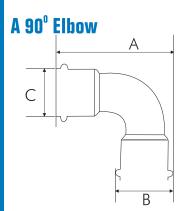
#### **Other O-Ring Details**

Material	Colour	Temp.	Function	Usage
Fluoronrubber	Brown	-30°C -170°C	16	Steam high temperature hot water
HNBR	Yellow	-40°C -150°C	16	Gas Fuel Oil

### Socket

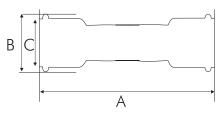


Size	Α	В	С	Weight
1/2"	52.00	23.00	18.50	38.39
3/4"	55.00	31.30	25.40	58.57
1''	58.70	37.20	31.60	72.37
11/4"	66.60	44.40	38.70	102.82
1½"	88.00	53.40	45.60	161.57
2"	93.50	65.20	57.90	204.00



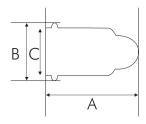
Size	Α	В	С	Weight
1/2"	56.00	23.00	18.50	40.21
3/4 "	70.50	31.30	25.40	92.82
1''	78.00	37.20	31.60	119.23
1¼"	95.20	44.40	38.70	175.60
1½"	117.40	53.40	45.60	265.00
2"	140.00	65.20	57.90	399.80

# Slip Socket



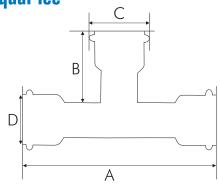
Size	Α	В	С	Weight
1/2"	81.40	23.00	18.50	57.23
3/4 "	85.00	31.30	25.40	86.24
1''	93.10	37.20	31.60	114.09
11/4"	109.30	44.40	38.70	159.79
1½"	135.00	53.40	45.60	212.00
2"	152.00	65.20	57.90	298.00

## Cap



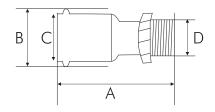
Size	А	В	С	Weight
1/2"	34.80	23.00	18.50	25.09
3/4"	36.40	31.30	25.40	38.50
1''	37 .00	37.20	31.60	49.50
11/4"	42.00	44.40	38.70	66.51
1½"	51.60	53.40	45.60	101.72
2"	56.00	65.20	57.90	139.45

**Equal Tee** 



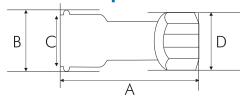
Size	Α	В	С	D	Weight
1/2"	79.70	27.60	23.00	18.50	72.69
3/4"	86.40	29.00	31.30	25.40	111.56
1''	93.00	32.10	37.20	31.60	143.65
11/4"	107.20	34.80	44.40	38.70	196.69
11/2"	134.00	46.10	53.40	45.60	289.80
2"	152.20	47.90	65.20	57.90	408.75

#### **Male Adaptor**



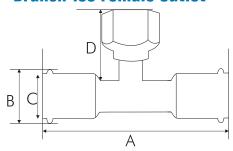
Size	А	В	С	D	Weight
1/2"	51.50	23.00	18.50	21.00	52.14
3/4 "	56.40	31.30	25.40	26.20	74.14
1''	62.70	37.20	31.60	33.00	106.33
11/4"	70.00	44.40	38.70	41.70	148.22
1½"	80.60	53.40	45.60	47.60	189.32
2"	92.50	65.20	57.90	59.00	380.00

#### **Female Adaptor**



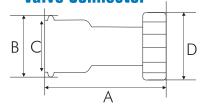
Size	Α	В	С	D	Weight
1/2"	50.40	23.00	18.50	27.20	51.75
3/4"	51.20	31.30	25.40	34.00	72.57
1''	58.80	37.20	31.60	41.60	114.22
11/4"	65.10	44.40	38.70	50.00	161.00
1½"	77.00	53.40	45.60	56.00	203.87
2"	86.90	65.20	57.90	68.50	260.00

#### **Branch Tee Female Outlet**



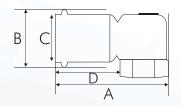
Size	А	В	С	D	Weight
1/2"	79.60	23.00	18.50	25.20	84.27
3/4 "	86.60	31.30	25.40	25.40	127.83
1''	92.80	37.20	31.60	31.80	182.97
11/4"	108.00	44.40	38.70	35.50	220.00
1½"	134.30	53.40	45.60	36.70	260.00
2"	152.00	65.20	57.90	43.40	405.00

#### **Valve Connector**



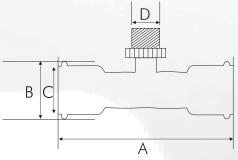
Size	А	В	С	D	Weight
1/2"	55.00	23.00	18.50	27.00	57.86
3/4"	58.40	31.30	25.40	33.80	91.30
1''	64.20	37.20	31.60	42.40	134.36
11/4"	66.40	44.40	38.70	49.70	178.03
11/2"	82.00	53.40	45.60	56.10	425.00
2"	85.70	65.20	57.90	68.10	633.00

#### 90° Female Elbow Short



Size	Α	В	С	D	Weight
1/2"	58.70	23.00	18.50	34.00	73.76
3/4"	68.70	31.30	25.40	37.60	117.21
1''	75.30	37.20	31.60	36.30	172.42

#### **Branch Tee Male Outlet**



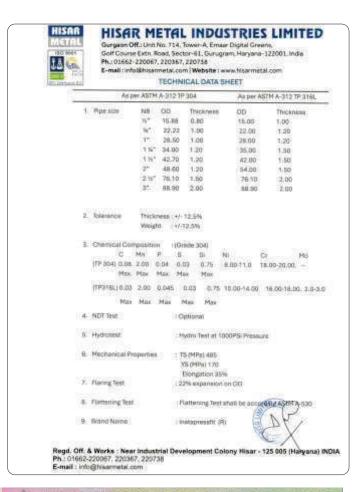
Size	Α	В	С	D	Weight
1/2"	79.60	23.00	18.50	26.00	77.00
3/4"	86.80	31.30	25.40	31.00	126.18

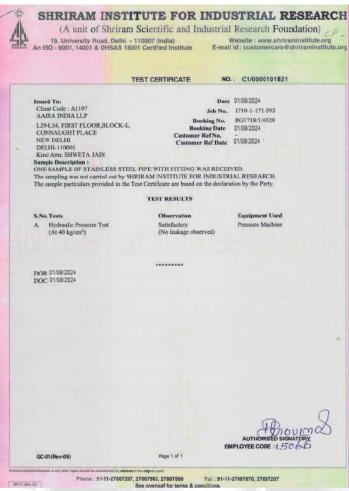
<sup>\*</sup>Please contact for 304 JIS grade fitting dimension.

<sup>\*</sup>These sizes are for reference purposes only, may differ batch to batch

#### **Test Certificate & Data Sheet**









# Quality Assurance plan 316 L and 304 Grade Stainless Steel Plumbing Pipe and Fittings

#### A. Incoming Raw Material

	Process Description	Ref. Documents Standards	Characteristic to be checked	Samples quorum of size/inspection	Instrument equipment used for testing	Acceptance criteria
1	CR Coil from Our Coil Production Factory	Specification as Material requisition form	• Dimension • JSL T.C. Verification • Packing Condition • Weight • Defects if any	Sample / Heat	Vernier, Micrometre, Chemical, Analysis, Tensile Testing Machine (Brinell Rockwell) Hardness Testing Machine	Confirm to Specification 100%

#### B. Stage Wise Inspection

2	Welded Tube forming	As per Specification	Dimensions check Diameter (Ovality) x Length x Thickness • Weight • Defects if any	2 Samples from each Coil 1 Sample from each lot	Universal testing machine UIN 40 - T Make "UTS" Microscope, Vernier, Micrometre & Measuring Tape	Dimensions acceptance as per order Confirm to standard samples as per details
3	Annealing	Temperature as per ASTM Standard	• Temperature • Hardness • Cooling • Water Quenching	1 Sample per lot / 1 Sample per heat	Digital Graphic, Temperature Recorder, Digital Temperature Indicator & Temperature Controller, Metallurgical Microscope, Brine Rockwell Hardness Tester.	Dimensions acceptance as per order Confirm to standard samples as per details
4	Straightening	Straightening as per specification	Check straightening of Pipes	First 2 pipes of each size lot	Roller Straightening Machine, Micrometre, Visual Observation	Straightening as per specification standard sample
5	End Facing Squaring & Bevelling	Burr Free Squaring / Bevelling with Proper V-Shape	100% Visual inspection	Abrasive Polishing as per standard sample	Confirm to specification / requirement	Straightening as per specification
6	Hydrostatic Testing	As per ASTM standard	Leakages	100%	Hydraulic Pressure Tester	No Leakage
7	Picking	As per required ASTM standard	• Scale removing inside • outside surface area	100%	Visual Observation requirement	As per Standard
8	Final Inspection Physical / Chemical Testing	As per applicable standard	Visual Dimension, Physical & Chemical	100% (or) as per ASTM standard	Micrometre, Vernier, Universal Testing Machine	As per Standard
9	Marking InstaPressfit®	InstaPressfit®	• Spell check • Details verification	100% Confirm on first two sample & continue	Inkjet machine / heat no size Grade etc. with Test certificate	Confirm to requirement
10	Packing & Delivery	As per Our Standard Practice or as per customer requirement (If stated in P.O.)	Packing quality Tightness of packing	100% confirm to requirement and release for	Hessian Cloth	As per Our Standard Practice or as per customer requirement (If stated in P.O.)



# 5 Layer/ 7 Layer

#### First Layer

Standard 316L Surgical Stainless Steel

#### Second Layer

Climate Control Insulated Coating,

#### Third Layer

Fire & Lightening retardant thermal insulation

#### Fourth Layer

High bonded density P.U. foam for thermal resistance.

#### Fifth Layer

U.V. blocking fibrous insulation prevents heat transmission through convection.

#### Sixth Layer

AEROLAM heat insulation confirms to class 1 for surface spread of Flame Characteristics.

#### Seventh Layer

Wrap around with rigid 304 Austenitic stainless steel.



Higher level of SS thickness ensures that high pressure water flows do not impact or defor the tank.



Hot water flushing clears the SS tank from any bacteria if present and the pure brass wash drain outlets allow for accelerated cleaning of dirty water.



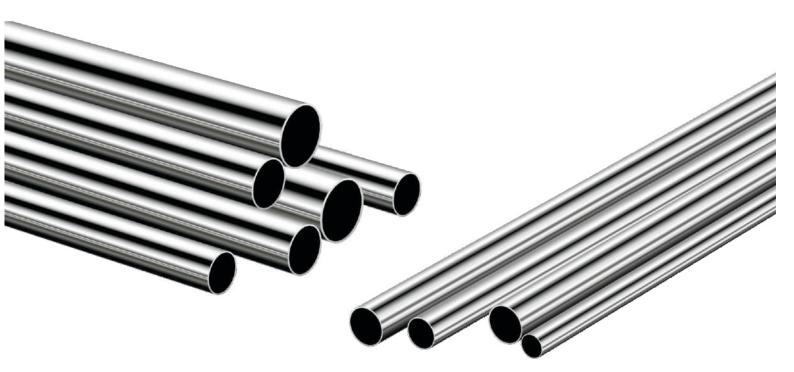
# **Stainless Steel Water Tanks**

# **Technical Specification**

Capacity (Ltr)	Diameter (mm/inch)	Height with Stand (mm/inch)	Inlet Fitting (inch)	Over Flow (Inch)	Outlet Fitting (Inch)	Drain (inch)
500	1070/42	1170/46	1	1	1	1
750	1070/42	1600/63	1	1	1	1
1000	1070/42	1800/72	1	1	15	15
1500	1360/54	1900/75	1	1	1.5	1.5
2000	1530/60	2010/79	1	1	2	2
2500	1530/60	2260/89	1	1	2	2
3000	1700/67	2060/81	1	1	2	2
4000	1700/67	2550/100	1.5	1.5	2	2
5000	1700/67	3300/130	1.5	1.5	2	2

#### Guide to Selection of Stainless Steel

Water Type	Chloride Level	Steel Type	Common Grade Name	Nearest EN 1008 Grades
Supply	200	Austentic	304	EN.4301/UNS30400
Ground	600	Austentic	316L	EN1.4401/UNSS31603
Brokish	800-3600	Duplex	2205	EN1.446201/UNSS2205



# **Products**



# NOTES






+91-9811305500

E-mail: info@instapressfit.com Find us at: www.instapressfit.com



Sales Office : Unit No 803, K M Trade Tower, Sec 14, Kaushambi, Ghaziabad,

Uttar Pradesh 201012

Delhi Office : 11, Khasra No. 91/26-28-29, Alipur, New Delhi - 110036

Gurugram Office: Unit no. 714, Tower -A, Emaar Digital Greens, Golf Course Extn. Road, Sector 61

Gurugram, Haryana-122001, INDIA

Warehouse : 1st Floor, Plot No. 59/2/20, Site 4, Sahibabad, Ghaziabad, U.P.-201005

Factory : Hisar Metal Industries Limited Near Industrial Development Colony, Delhi Road

Hisar - 125 005, Haryana, INDIA



