



**Insta Pressfit®**  
Pressfit Quality & Purity



*In pursuit of excellence*  
www.hisarmetal.com

## 316L & 304 Grade Stainless Steel Plumbing Pipes & Fittings



[WWW.INSTAPRESSFIT.COM](http://WWW.INSTAPRESSFIT.COM)

<b>COIL BIS</b> 15997:2012 CM/L-9512503820	<b>PIPES BIS</b> 17876:2022 CM/L-9100235009
--	---



# 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 cost-effective, 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.



**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.



*In pursuit of excellence*

[www.hisarmetal.com](http://www.hisarmetal.com)





**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.

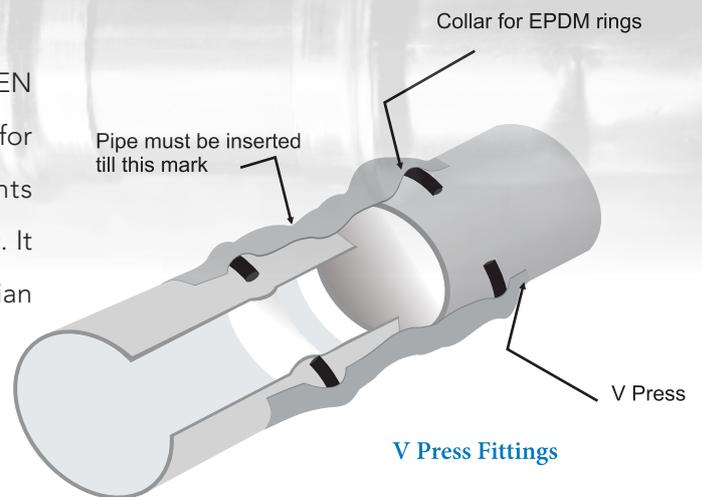
Our cleverly designed fittings can be installed by any plumber using our specially designed hydraulic crimping tools. The installation of our pipes & fittings is quick and hassle-free.

**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® 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



FINISHED TO PERFECTION

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.

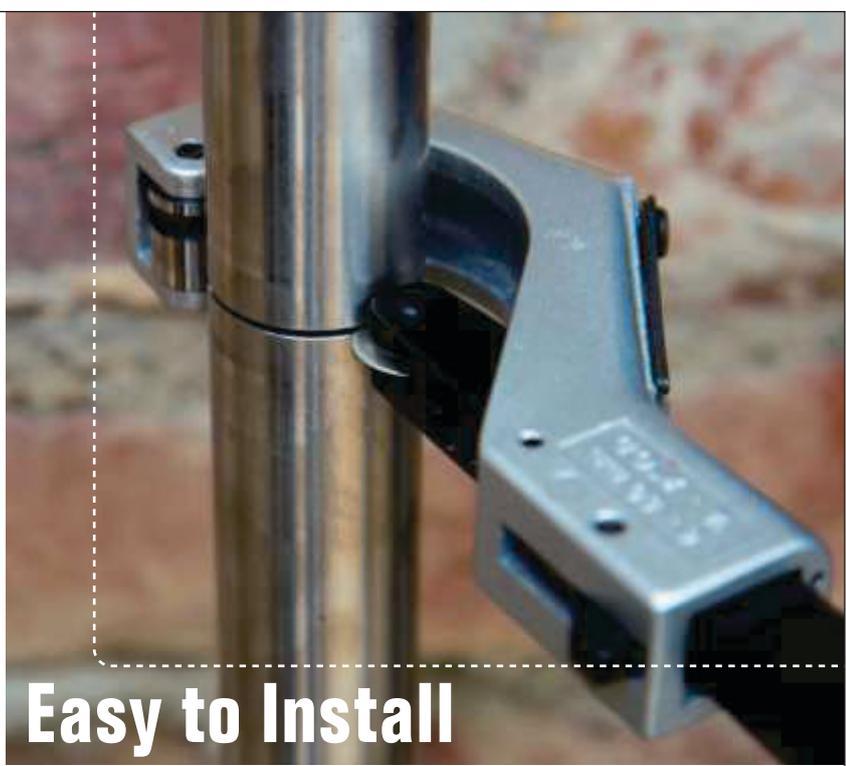
5

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

6

Look at the IUF Indicator

7



## Easy to Install

### Crimping Tool

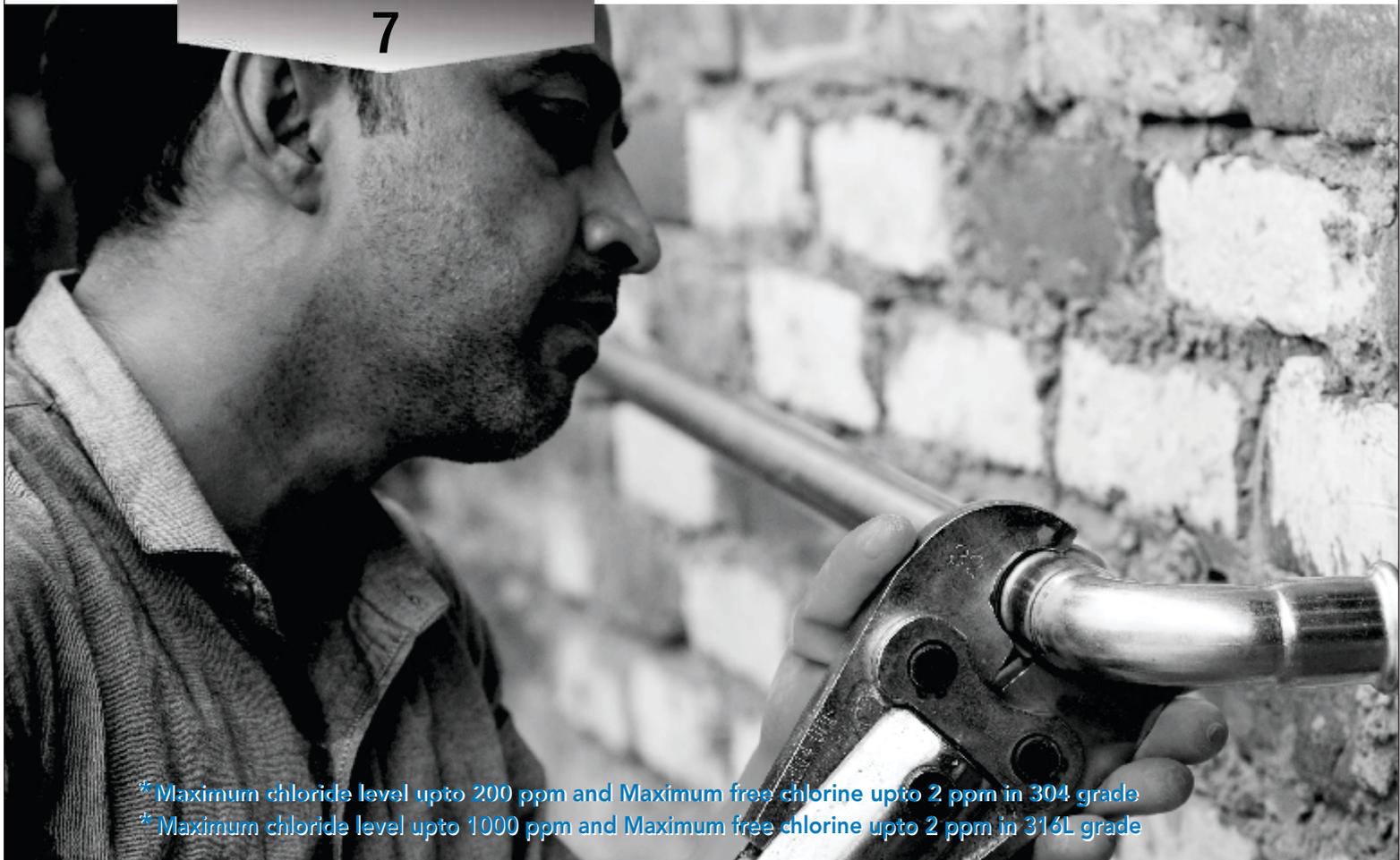
Height : 203mm

Length : 395 mm

Width : 81 mm

Weight : 3 kg

Compression Range : 54mm



\* Maximum chloride level upto 200 ppm and Maximum free chlorine upto 2 ppm in 304 grade

\* Maximum chloride level upto 1000 ppm and Maximum free chlorine upto 2 ppm in 316L grade

### 304 JIS

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

Pipe Dimension Chart

Light Weight

## 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 No.-300)	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
<b>Total</b>	<b>100.00%</b>	

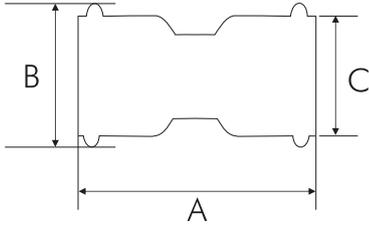
## Other O-Ring Details

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

**NOTE: In case of special requirements please specify in purchase order**

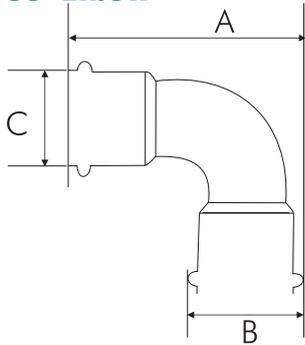
TECHNICAL SPECIFICATIONS

### Socket



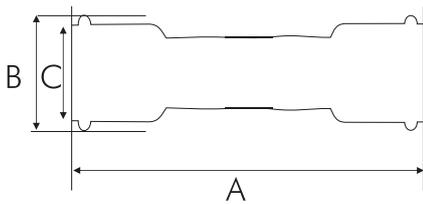
Size	A	B	C	Weight
1/2"	52.00	23.00	18.50	38.39
3/4"	55.00	31.30	25.40	58.57
1"	58.70	37.20	31.60	72.37
1 1/4"	66.60	44.40	38.70	102.82
1 1/2"	88.00	53.40	45.60	161.57
2"	93.50	65.20	57.90	204.00

### A 90° Elbow



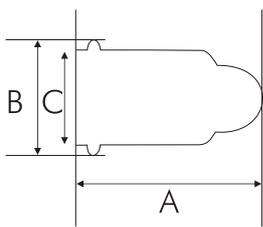
Size	A	B	C	Weight
1/2"	56.00	23.00	18.50	40.21
3/4"	70.50	31.30	25.40	92.82
1"	78.00	37.20	31.60	119.23
1 1/4"	95.20	44.40	38.70	175.60
1 1/2"	117.40	53.40	45.60	265.00
2"	140.00	65.20	57.90	399.80

### Slip Socket



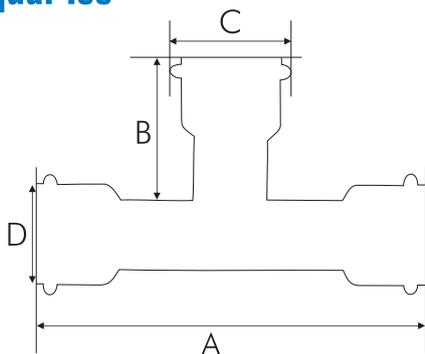
Size	A	B	C	Weight
1/2"	81.40	23.00	18.50	57.23
3/4"	85.00	31.30	25.40	86.24
1"	93.10	37.20	31.60	114.09
1 1/4"	109.30	44.40	38.70	159.79
1 1/2"	135.00	53.40	45.60	212.00
2"	152.00	65.20	57.90	298.00

### Cap



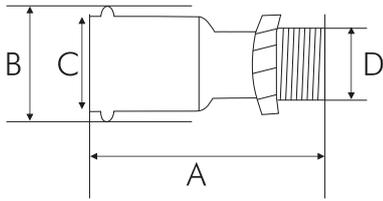
Size	A	B	C	Weight
1/2"	34.80	23.00	18.50	25.09
3/4"	36.40	31.30	25.40	38.50
1"	37.00	37.20	31.60	49.50
1 1/4"	42.00	44.40	38.70	66.51
1 1/2"	51.60	53.40	45.60	101.72
2"	56.00	65.20	57.90	139.45

### Equal Tee



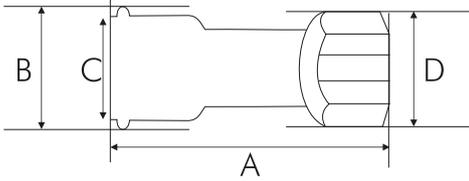
Size	A	B	C	D	Weight
1/2"	79.70	27.60	23.00	18.50	72.69
3/4"	86.40	29.00	31.30	25.40	111.56
1"	93.00	32.10	37.20	31.60	143.65
1 1/4"	107.20	34.80	44.40	38.70	196.69
1 1/2"	134.00	46.10	53.40	45.60	289.80
2"	152.20	47.90	65.20	57.90	408.75

## Male Adaptor



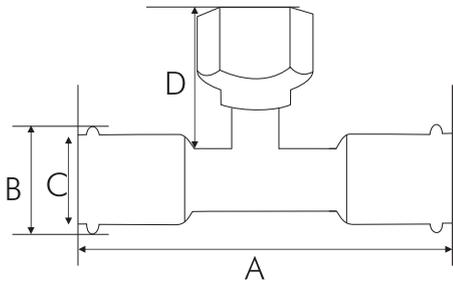
Size	A	B	C	D	Weight
1/2"	51.50	23.00	18.50	21.00	52.14
3/4"	56.40	31.30	25.40	26.20	74.14
1"	62.70	37.20	31.60	33.00	106.33
1 1/4"	70.00	44.40	38.70	41.70	148.22
1 1/2"	80.60	53.40	45.60	47.60	189.32
2"	92.50	65.20	57.90	59.00	380.00

## Female Adaptor



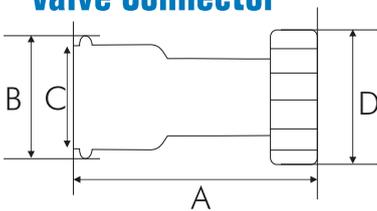
Size	A	B	C	D	Weight
1/2"	50.40	23.00	18.50	27.20	51.75
3/4"	51.20	31.30	25.40	34.00	72.57
1"	58.80	37.20	31.60	41.60	114.22
1 1/4"	65.10	44.40	38.70	50.00	161.00
1 1/2"	77.00	53.40	45.60	56.00	203.87
2"	86.90	65.20	57.90	68.50	260.00

## Branch Tee Female Outlet



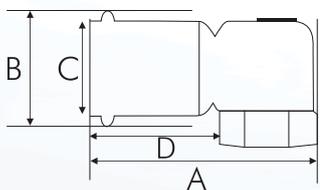
Size	A	B	C	D	Weight
1/2"	79.60	23.00	18.50	25.20	84.27
3/4"	86.60	31.30	25.40	25.40	127.83
1"	92.80	37.20	31.60	31.80	182.97
1 1/4"	108.00	44.40	38.70	35.50	220.00
1 1/2"	134.30	53.40	45.60	36.70	260.00
2"	152.00	65.20	57.90	43.40	405.00

## Valve Connector



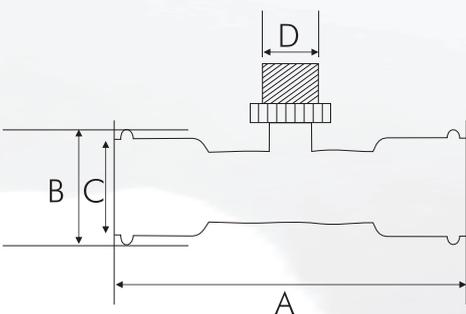
Size	A	B	C	D	Weight
1/2"	55.00	23.00	18.50	27.00	57.86
3/4"	58.40	31.30	25.40	33.80	91.30
1"	64.20	37.20	31.60	42.40	134.36
1 1/4"	66.40	44.40	38.70	49.70	178.03
1 1/2"	82.00	53.40	45.60	56.10	425.00
2"	85.70	65.20	57.90	68.10	633.00

## 90° Female Elbow Short



Size	A	B	C	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	A	B	C	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

\*Please contact for 304 JIS grade fitting dimension.

\*These sizes are for reference purposes only, may differ batch to batch

# Test Certificate & Data Sheet



**TCR ENGINEERING**



TCR Engineering Services Pvt. Ltd.  
VPO Meera, E-12 MIDC, TTC  
Phase-2, Gurgaon, Haryana  
New India - 122 002, India  
T: +91-9820949933 | www.tcrengg.com

## TEST REPORT

Page 1 of 1  
Date: 26-07-2024

**U/LR - TC0952400023155F**  
T.C. No.: **CS1504**  
Issued To: **M/s AARA INDIA LLP**  
Lot Floor, Plot No.52/2/20, Site 4, Shahabad, Ghaziabad, Uttar Pradesh-201010  
Contact No. +91-9820949933, Email: info@tcrengg.com

Party Ref.: Letter  
Ref. Date: 17-07-2024  
Description of Sample: Pipe  
Specification: AISI 316 L  
Sample Drawn By: Party  
Test Location: TCR, New Mumbai  
Test: SPECTRO CHEMICAL ANALYSIS  
TCR Order No: TCA/2024/1589

Condition of Sample: Sample Received on: 22-07-2024  
Testing Started on: 22-07-2024  
Date of Completion: 23-07-2024  
Enclosure: Nil

**1. Chemical Testing**  
**1. Metals and Alloys**  
**SPECTRO CHEMICAL ANALYSIS**

Test performed on: 23-07-2024

Result	Test Method	Requirement
% Carbon	ASTM E1086:2012	0.030 max.
% Sulphur	ASTM E1086:2012	0.030 max.
% Phosphorus	ASTM E1086:2012	0.045 max.
% Manganese	ASTM E1086:2012	2.00 max.
% Silicon	ASTM E1086:2012	1.00 max.
% Chromium	TCR/IM-03-065-2023	16.00-18.00
% Nickel	ASTM E1086:2012	10.00-14.00
% Molybdenum	ASTM E1086:2012	2.00-3.00
Result	Satisfactory	

**Remark:** The above result(s) meets the specified requirements of AISI 316 L with respect to elements analysed.

\*\*\*\*\*END OF REPORT\*\*\*\*\*

Checked By: 

Reviewed & Authorized By:  
**D.N. GAICHOR**  
(HOD Chemical)




TCR Engineering Services, India: Boosting On-Time Quality since 1973  
Material Testing, Metallurgical Evaluation, Corrosion  
General NDT Inspection, Civil, Auto, Engineering Consulting & Research Laboratories  
The client shall be responsible for the safe handling and storage of the samples provided.  
The Test Report is valid only for the sample(s) tested and shall not be used for any other purpose.  
The Test Report is valid only for the sample(s) tested and shall not be used for any other purpose.  
The Test Report is valid only for the sample(s) tested and shall not be used for any other purpose.



**HISAR METAL**

**HISAR METAL INDUSTRIES LIMITED**  
Gurgaon Off.: Unit No. 714, Tower-A, Emaar Digital Greens,  
Golf Course Extn. Road, Sector-61, Gurugram, Haryana-122001, India  
Ph.: 01662-220067, 220367, 220738  
E-mail: info@hisarmetal.com | Website: www.hisarmetal.com

## TECHNICAL DATA SHEET

	As per ASTM A-312 TP 304			As per ASTM A-312 TP 316L		
1. Pipe size	NB	OD	Thickness	OD	Thickness	
	1/2"	15.88	0.80	15.00	1.00	
	3/4"	22.22	1.00	22.00	1.20	
	1"	28.50	1.00	28.00	1.20	
	1 1/4"	34.00	1.20	35.00	1.50	
	1 1/2"	42.70	1.20	42.00	1.50	
	2"	48.60	1.20	54.00	1.90	
	2 1/2"	76.10	1.50	76.00	2.00	
	3"	88.90	2.00	88.90	2.00	

2. Tolerance: Thickness: +/- 12.5%  
Weight: +/- 12.5%

3. Chemical Composition: (Grade 304)

	C	Mn	P	S	Si	Ni	Cr	Mo
(TP 304)	0.08-2.00	0.04-0.03	0.03-0.03	0.015	0.03-0.10	8.00-11.0	18.00-20.00	-
	Max	Max	Max	Max	Max	Max	Max	Max
(TP 316L)	0.03-2.00	0.045	0.03	0.015	10.00-14.00	16.00-18.00	3.0-3.0	-
	Max	Max	Max	Max	Max	Max	Max	Max

4. NDT Test: Optional

5. Hydrotest: Hydro Test at 1000PSI Pressure

6. Mechanical Properties: TS (MPa) 485  
YS (MPa) 170  
Elongation 35%

7. Flaring Test: 22% expansion on OD

8. Flattening Test: Flattening Test shall be according to ASTM A-300

9. Brand Name: Innapress (R)



Regd. Off. & Works : Near Industrial Development Colony Hisar - 125 005 (Haryana) INDIA  
Ph.: 01662-220067, 220367, 220738  
E-mail: info@hisarmetal.com



**SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH**  
(A unit of Shriram Scientific and Industrial Research Foundation)  
19, University Road, Delhi - 110007 (India)  
An ISO - 9001, 14001 & OHSAS 18001 Certified Institute  
Website: www.shriraminstitute.org  
E-mail id: customercare@shriraminstitute.org

CP-

## TEST CERTIFICATE

NO.: C1/0000101821

Issued To: Client Code: A1197  
AARA INDIA LLP  
L29-L34, FIRST FLOOR, BLOCK-L,  
CONNAUGHT PLACE  
NEW DELHI  
DELHI-110001  
Kind Attn: SHWETA JAIN

Date: 01/08/2024  
Job No.: 1710-1-171-592  
Booking No.: RG1718/1A528  
Booking Date: 01/08/2024  
Customer Ref No.:  
Customer Ref Date: 01/08/2024

**Sample Description:**  
ONE SAMPLE OF STAINLESS STEEL PIPE WITH FITTING WAS RECEIVED.  
The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
The sample particulars provided in the Test Certificate are based on the declaration by the Party.

**TEST RESULTS**

S.No. Tests	Observation	Equipment Used
A. Hydraulic Pressure Test (At 40 kg/cm <sup>2</sup> )	Satisfactory (No leakage observed)	Pressure Machine

\*\*\*\*\*

DOR: 01/08/2024  
DOC: 01/08/2024



AUTHORISED SIGNATORY  
EMPLOYEE CODE: 5065

GC-01(Rev-05) Page 1 of 1

Customer representation in any other copies should be substantiated by reference to the original report.  
Phone: 91-11-27607207, 27607363, 27607800 Fax: 91-11-27607670, 27607207  
See overleaf for terms & conditions



**SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH**  
(A unit of Shriram Scientific and Industrial Research Foundation)  
19, University Road, Delhi - 110007 (India)  
An ISO - 9001, 14001 & OHSAS 18001 Certified Institute  
Website: www.shriraminstitute.org  
E-mail id: customercare@shriraminstitute.org

CP-

## TEST CERTIFICATE

NO.: C1/R0500510E

Issued To: Client Code: A1197  
AARA INDIA LLP  
L29-L34, FIRST FLOOR, BLOCK-L,  
CONNAUGHT PLACE  
NEW DELHI  
DELHI-110001  
Kind Attn: SHWETA JAIN

Date: 14/08/2017  
Job No.: 1708-L-171-1507  
Booking No.: RG1718/1A481  
Booking Date: 14/08/2017  
Customer Ref No.:  
Customer Ref Date: 14/08/2017

**Sample Description:**  
ONE SAMPLE DESCRIBED AS STAINLESS STEEL PIPE (GRADE: 316L) DECLARED AS BEING  
USED FOR HOUSEHOLD PLUMBING WAS RECEIVED.

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
The sample particulars provided in the Test Certificate are based on sample provided by the Party.

**TEST RESULTS**

S.No. Test Parameters	Observation	Requirement Grade SS-316L	Conformity	Protocol Adopted
A. Chemical Analysis (% By Mass) ASTM A-240				
1. Carbon	0.03	0.03 Max.	Yes	IS-228 Pt-1-1987 RA2012
2. Manganese	1.3	2.00 Max.	Yes	ASTM E 738-2012
3. Sulphur	0.012	0.030 Max.	Yes	IS-228 Pt-9-1989 RA2014
4. Phosphorus	0.039	0.045 Max.	Yes	IS-228 Pt-3-1987 RA2012
5. Silicon	0.29	0.75 Max.	Yes	IS-228 Pt-8-1989 RA2014
6. Nickel	10.3	10.0 - 14.0	Yes	IS-228 Pt-5-1987 RA2014
7. Chromium	16.4	16.0 - 18.0	Yes	IS-228 Pt-6-1987 RA2014
8. Molybdenum	2.1	2.0 - 3.0	Yes	ASTM E 399-2012

\*\*\*\*\*

D.O.B.: 14/08/2017  
D.O.C.: 14/08/2017



AUTHORISED SIGNATORY  
EMPLOYEE CODE: 5065

GC-01(Rev-05) Page 1 of 1

Customer representation in any other copies should be substantiated by reference to the original report.  
Phone: 91-11-27607207, 27607363, 27607800 Fax: 91-11-27607670, 27607207  
See overleaf for terms & conditions

# Products



Pipe



Slip Socket



90° Female Elbow



Male Thread Socket



Female Thread Socket



90° Male Elbow



A90° Elbow



Pipe Bridge



45° Elbow



90° Female Elbow (Short)



Equal Tee



Water Manifold



Branch Tee Male



Reducing Socket



Socket



Cap



**AIIRA INDIA LLP**  
+91-9811305500  
E-mail : [info@instapressfit.com](mailto:info@instapressfit.com)  
Find us at : [www.instapressfit.com](http://www.instapressfit.com)

**Sales Office:**

Unit no. 803. KM Trade Tower Sec 14, Kaushambi ,Ghaziabad .U.P 201012

**Delhi Office:**

11, Kasara 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

**Warehouse:**

1st floor,Plot No. 59/2/20, Site4 Sahibabad Ghaziabad U.P.- 201005

**Factory:**

Hisar Metal Industries Limited Near Industrial Development Colony ,  
Delhi Road ,Hisar -125005 Haryana



*In pursuit of excellence*  
[www.hisarmetal.com](http://www.hisarmetal.com)

