

PRIMEGOLD
S.S. WATER PIPES



FOOD GRADE
304 Stainless Steel Water Pipes & Fittings

Profile

Ten years of extensive Research & Development in the field of plumbing pipes in order to solve the problem of leakage, ensure seepage free walls, hygienic water flow and to control increasing pollution hazards in various industries like chemical, pharmaceutical and food & beverage environment, Sh. Pulkit Aggarwal, an Industrialist, with vast experience in the steel industry got success in the year 2004. He ushered in a new era of manufacturing /marketing and distribution of infrastructure related product Primegold S. S. Water Pipes in the Indian market. Now, stainless steel has emerged as an alloy that is increasingly preferred for several plumbing projects.

Primegold 304 Grade Stainless Steel Pipe is one of the most hygienic pipes from the standpoint of water plumbing and environment as well. It is lightweight and can be used anywhere. Moreover it is strong enough to handle any pressure and offers easiest food grade approved plumbing.

Further, Primegold Pipes have lower friction as compared to cement lined or corroded carbon steel pipes ensuring less loss of water pressure along the pipeline. This provides an opportunity to diminish the internal diameter of the pipe and save capital cost. This is also a reason for a lower adhesion of deposits as well as lower bacteria colonization. It is also tolerant to high flow rates.

Preview

- Prime Gold Stainless Steel Plumbing System
- Certification
- Properties of Prime Gold Steel Pipes
- 304 Grade Fittings & Crimping Tools
- 304 Fitting Dimension
- Specification and Sizes



How to install

- Use high speed blade to cut the pipe.
- Cut the pipe in round shape.
- The edges of pipe should be smooth otherwise it can damage the Gasket while inserting in the pipe.
- Pipe should be insert till the end of the fitting.
- Keep the fitting's collar in the middle point of die.
- Press the die till both face of tool join.

Crimping Tool

Crimping range	:	Cu16-43mm ²
Crimping force	:	16T
Crimping type	:	hexagon crimping
Stroke	:	20mm
Length	:	appro. 500mm
Weight	:	approx. 6.80kg



Properties of Prime Gold Stainless Steel Pipes

- Most hygienic material for water plumbing.
- World wide uses in domestic, industrial, food processing units, hospitals and housing complexes.
- Higher in strength as compare to PPR (10 times) Copper (5 times) and iron galvanized (3 times).
- Can bear maximum temperature (100°C).
- Maximum water flow due to smooth surface and maximum pressure due to strength.
- Maximum life.
- Food grade approved.
- Easiest way of plumbing.
- Cost effective.

S.S 304 Grade Standard	Pipe	Fittings
Grade	AISI-304	AISI-304
Standard	JIS-3448	JWWAG-116

*Suitable for Drinking water as per IS 10500

Maximum Chloride level upto 200 ppm

Maximum free Chlorine upto 2 ppm

Certification

SHIRAM INSTITUTE FOR INDUSTRIAL RESEARCH
(A unit of Shiram Scientific and Industrial Research Foundation)
An ISO - 9001:2008 Certified Institute

TEST CERTIFICATE 000347351

Issued to :
PRIME GOLD INDIA LTD.
5/2 PUNJABI BAGH EXTN.
NEW DELHI - 110026

J.O.No. 410-141-3321
Reg.No. 1366183
Date 14-11-2014
GC-01 (REV-04)

Kind Attn: MR. AMIT JAIN, SR. MANAGER COMMERCIAL

Sample Particulars:
One sample described as EPDM Rubber Gasket of Size 1/2", was received.
* The sampling was not carried out by Shiram Institute for Industrial Research. The sample details provided in the test certificate are based on declaration by the party.

TEST RESULTS
(As per IS: 5382-1985)

S.No.	Tests	Results Obtained
1.	Hardness in IRHD	78
2.	Tensile Strength, MPa (before ageing)	11.5
3.	Elongation, %	236
4.	Water absorption, %	0.2
5.	Water Immersion change in (volume, % (for 7 days at 70°C)	0.1
6.	Cold Resistance, increase in Hardness (after 7 days at -10°C)	(+) 2

Note: Conformity of test results could not be given because the type of gasket was not declared by the party.

DOR: 30.10.2014
DOC: 13.11.2014

19, University Road, Delhi - 110007. Ph: 91-11-26111111
E-Mail: sriram@vsnl.com Website: <http://www.shriraminstitute.org>

SHIRAM INSTITUTE FOR INDUSTRIAL RESEARCH
(A unit of Shiram Scientific and Industrial Research Foundation)
An ISO - 9001:2008 Certified Institute

TEST CERTIFICATE 000198812

Issued to :
PRIME GOLD INDIA LTD.
5/2 PUNJABI BAGH EXTN.
NEW DELHI - 110026

J.O.No. 103-171-2838
Reg.No. 1317010
Date 07-04-2011
GC-01 (REV-04)

Kind Attn: MR. AMIT JAIN, SR. MANAGER COMMERCIAL

Sample Particulars:
One sample described as SS pipe, SS-304 grade was received.
(The sampling was not carried out by the Representative Of SHIRAM INSTITUTE FOR INDUSTRIAL RESEARCH. The sample details provided in Test certificate are based on declaration by the Party.)

TEST RESULTS

S.No.	Tests	Observation	Specified Value (Grade SS-304 of IS 5572-1992)	Conformity	Protocol Adopted Equipment Used
A.	CHEMICAL ANALYSIS (% by weight)				
1.	Carbon	0.06	0.08 Max	Yes	IS: 228 & ICP-OES
2.	Silicon	0.59	1.0 Max	Yes	
3.	Manganese	1.5	2.0 Max	Yes	
4.	Phosphorus	0.030	0.045 Max	Yes	
5.	Sulphur	0.018	0.030 Max	Yes	
6.	Chromium	17.6	17.5-20.0	Yes	
7.	Nickel	8.0	8.0-10.5	Yes	

DOR: 30.03.2011
DOC: 06.04.2011

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CENTRAL BUILDING RESEARCH INSTITUTE
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No.: SED/BKR/Gen/2005. Friday, May 20, 2005

By Speed Post/Courier

Dr. B. KAMESWARA RAO
M. Tech., Ph. D.
Deputy Director,
STRUCTURAL ENGINEERING DIVISION

Subject: Interim Report on Corrosion Resistance of Stainless Steel Pipes vis-à-vis with the Performance of GI Pipes.
Reference: Consultancy Project CNP-6324.

Dear Mr Satish Kumar,

This reference to our telephonic discussion on the subject mentioned above. The results of the accelerated corrosion tests on SS Pipes and GI pipes are provided below, as desired by you.

Linear Sweep Voltammetry (LSV) studies have been conducted on both SS Pipes and GI Pipes by exposing them to four different environments. The exposure conditions are:

- Normal Water (pH=7.50),
- Acidic Environment (pH=3.33),
- Saline Environment (0.5% NaCl) and
- Alkaline Environment (pH=12.22).

The results are as given below:

Environment	Corrosion Rate in mm/year		Corrosion Resistance of SS Pipes over GI Pipes
	SS Pipe	GI Pipe	
Alkaline Water	0.00117	0.007265	6.21 Times
Normal Water	0.00271	0.0283	10.44 Times
Acidic Water	0.121	1.26	10.41 Times
Saline Water	0.2693	4.162	15.45 Times

With kind regards,

To:
Mr Satish
Director,
Kamdhen
S/2, Punja
New Delh

CC To:
Director,
Kamdhen Industries Limited,
24, Pocket C-8, Sector-8,
Rohini, New Delhi-110 085.

Yours Sincerely
(B KAMESWARA RAO)

15.45 times

Pipe Specification

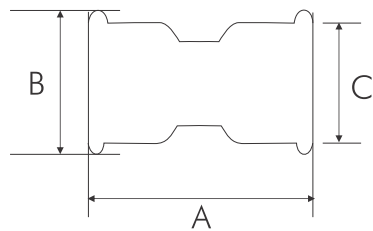
Size	OD (in mm)	Thickness (in mm)
1/2"	15.88	0.80
3/4"	22.22	1.00
1"	28.58	1.00
1 1/4"	34.00	1.20
1 1/2"	42.70	1.20
2"	48.60	1.20
2 1/2"	76.10	1.50
3"	88.90	2.00

* Pipe as per JIS 3448

Fitting Specifications

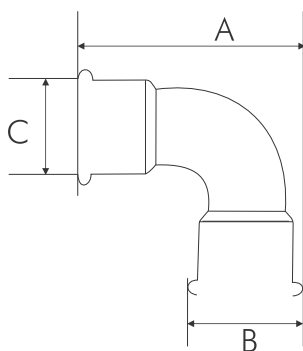
* Fittings as per JWWAG-116

Socket



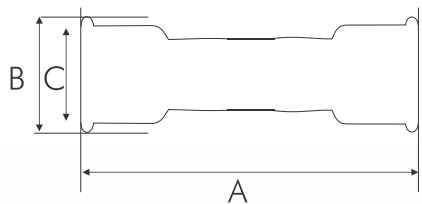
Size	A	B	C
1/2"	52.65	22.00	16.30
3/4"	61.30	30.00	22.65
1"	63.80	36.50	29.00
1 1/4"	100.60	45.50	36.50
1 1/2"	116.40	56.00	45.50
2"	126.45	62.00	51.00
2 1/2"	142.00	94.50	79.00
3	163.50	109.50	92.00

A 90° Elbow



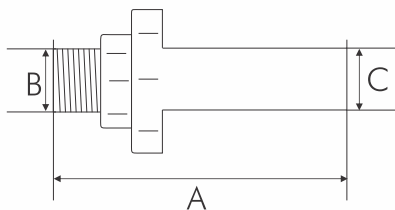
Size	A	B	C
1/2"	59.00	22.00	16.30
3/4"	74.00	30.00	22.65
1"	88.00	36.50	29.00
1 1/4"	114.00	45.50	36.50
1 1/2"	144.00	56.00	45.50
2"	159.50	62.00	51.00
2 1/2"	187.00	94.50	79.00
3	240.00	109.50	92.00

Slip Socket



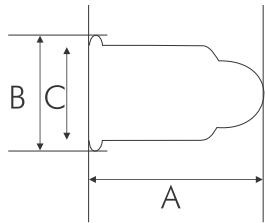
Size	A	B	C
1/2"	116.20	22.00	16.30
3/4"	129.30	30.00	22.65
1"	130.80	36.50	29.00
1 1/4"	101.60	45.50	36.50
1 1/2"	107.00	56.00	45.50
2"	127.30	62.00	51.00
2 1/2"	218.00	94.50	79.00
3	261.00	109.50	92.00

Union



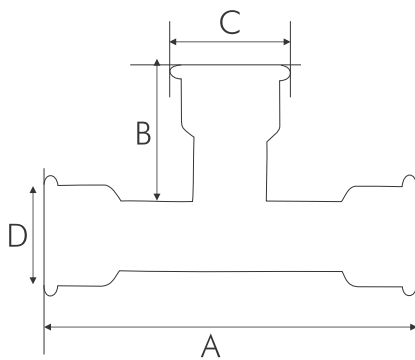
Size	A	B	C
1/2"	118.00	20.50	15.88
3/4"	132.00	25.50	22.22
1"	150.00	32.50	28.58
1 1/4"	157.00	41.50	34.00
1 1/2"	160.00	47.00	42.70
2"	166.50	59.00	48.60
2 1/2"	210.00	74.50	76.80
3	-	85.50	88.90

Cap



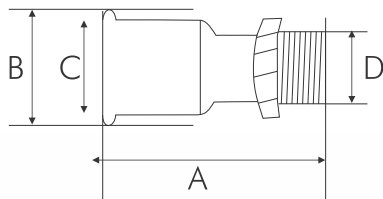
Size	A	B	C
1/2"	32.30	22.00	16.30
3/4"	40.40	30.00	22.65
1"	42.50	36.50	29.00
1 1/4"	60.00	45.50	36.50
1 1/2"	71.50	56.00	45.50
2"	73.00	62.00	51.00
2 1/2"	102.50	94.50	79.00
3	116.80	109.50	92.00

Equal Tee



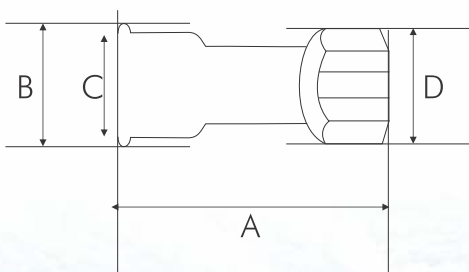
Size	A	B	C	D
1/2"	76.30	29.00	22.00	16.30
3/4"	92.80	35.00	30.00	22.65
1"	103.30	36.50	36.50	29.00
1 1/4"	137.40	50.00	45.50	36.50
1 1/2"	162.30	57.50	56.00	45.50
2"	178.00	59.50	62.00	51.00
2 1/2"	225.00	71.00	94.50	79.00
3	252.00	81.00	109.50	92.00

Male Adaptor



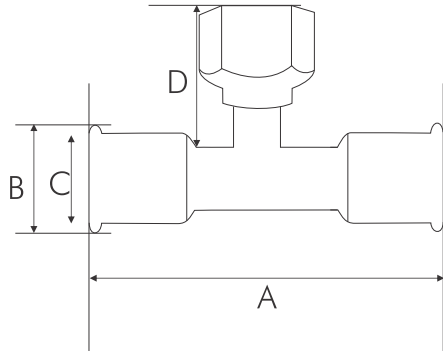
Size	A	B	C	D
1/2"	57.60	22.00	16.30	20.50
3/4"	64.00	30.00	22.65	25.50
1"	66.00	36.50	29.00	32.50
1 1/4"	86.30	45.50	36.50	41.50
1 1/2"	99.30	56.00	45.50	47.00
2"	109.20	62.00	51.00	59.00
2 1/2"	116.50	94.50	79.00	74.00
3	133.00	109.50	92.00	86.50

Female Adaptor



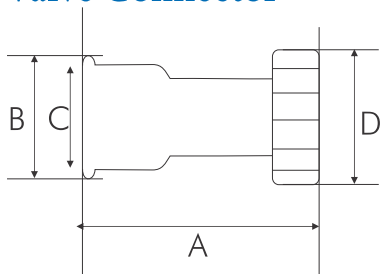
Size	A	B	C	D
1/2"	53.00	22.00	16.30	26.00
3/4"	58.50	30.00	22.65	30.50
1"	63.30	36.50	29.00	37.00
1 1/4"	78.90	45.50	36.50	47.00
1 1/2"	91.50	56.00	45.50	53.00
2"	104.00	62.00	51.00	65.00
2 1/2"	118.00	94.50	79.00	81.00
3	136.60	109.50	92.00	94.00

Branch Tee Female Outlet



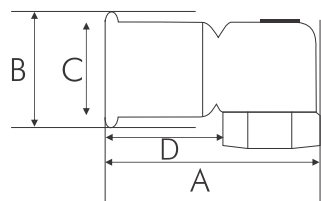
Size	A	B	C	D
1/2"	76.40	22.00	16.30	31.00
3/4"	92.30	30.00	22.65	32.00
1"	103.20	36.50	29.00	36.00
1 1/4"	136.70	45.50	36.50	34.00
1 1/2"	162.00	56.00	45.50	38.00
2"	178.00	62.00	51.00	43.50
2 1/2"	225.00	94.50	79.00	56.00
3	260.00	109.50	92.00	62.50

Valve Connector



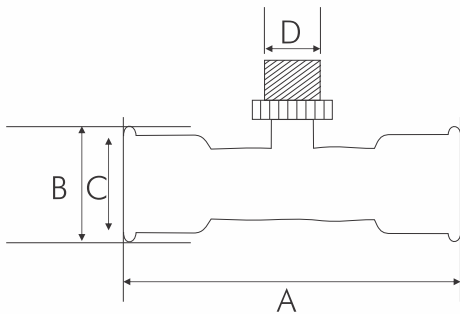
Size	A	B	C	D
1/2"	51.00	22.00	16.30	25.00
3/4"	56.50	30.00	22.65	30.00
1"	60.50	36.50	29.00	37.00
1 1/4"	90.60	45.50	36.50	44.60
1 1/2"	-	56.00	45.50	-
2"	119.80	62.00	51.00	64.00
2 1/2"	161.50	94.50	79.00	80.40
	210.00	109.50	92.00	91.30

90° Female Elbow Short



Size	A	B	C	D
1/2"	63.20	22.00	16.30	33.50
3/4"	66.80	30.00	22.65	37.50
1	75.30	36.50	29.00	39.50

Branch Tee Male Outlet



Size	A	B	C	D
1/2"	76.40	22.00	16.30	20.50
3/4"	92.30	30.00	22.65	25.50
1"	103.20	36.50	29.00	32.30
1 1/4"	136.70	45.50	36.50	41.00
1 1/2"	162.00	56.00	45.50	47.00
2"	178.00	62.00	51.00	59.00
2 1/2"	225.00	94.50	79.00	74.00
3	260.00	109.50	92.00	85.50



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