COLUMN PIPE || HDPE PIPE

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AN ISO9001:2015 COMPANY

an Innovative PIPING solution forever

INTRODUCTION

Phenomenon always happens in invention when God Sprinkle its precious blessing on someone, STERLING PIPE INCORPORATION (SPI) is on e of them. SPI is major Rajkot (GUJARAT) based leading manufacturer of PUMPS (Submersible Pumps, Open well Pumps & Self Priming Pumps), PIPES (Column Pipes, HDPE Pipes, Plumbing Pipes, Sprinkler Pipes, Garden Pipes & Drip Pipes), CABLES (Submersible Cables, Industrial Cable & House Wire Cable) & ADAPTORS (C.I. & S.S.). For Over 8 Years we have been relentless in our commitment to quality & service. Through the years, we have broadened and enhanced our product lines to better serve our customer. We are the only company that makes our product to the same exacting ZERO tolerance. The result is a system that is designed to fit together for easier installation and a life time trouble - Free Service.

This Product catalogue is designed to provide you with an introduction to the range of products that STERLING PIPE INCORPORATION can supply to service Domestic & Agricultural Market. You can obtain further product and technical information by contacting Sterling Pipe Incorporation Directly. Please refer to the end page of this catalogue for contact Details.

QUALITY STATEMENT

- The quality policy of the company is to occupy every employee of the company in its endeavour to meet national, international standards and up to the boundary of customer's satisfaction.

MISSION

- We shall produce best quality products and maintain creditability in the market for the quality of our product.
- Our intention to supply superior quality products to our respected customers and also we are committed to total customer satisfaction.
- After sales services on dot right the door steps to our client.
- Continual R&D and improvement in our performance to meet customer's expectations at all time.

VISION

- We want to accelerate our business with our quality and help to our patron to compete with established national and international performer.

PHYLOSOPHY

- Spread Flowers on someone's path is always given smooth & fragrance on your own path.

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PRODUCT ADVANTAGES

SIGNET Column pipes are very different materials: they share numerous advantages common to plastic piping systems. Advantage include ease of installation, corrosion resistance, low friction loss, initial cost & longevity.

EASY INSTALLATION

SIGNET Column pipes are light in weight (approximately one -half the weight of aluminum and one -sixth the weight of steel) reducing transportation, handling and installation cost. Column pipe have smooth, seamless interior walls. No special tools are required for cutting. Column pipe materials can be installed without using the solvent cementing technique.

FREEDOM FROM TOXICITY, ODORS & TASTES

SIGNET Column pipes are non toxic, odorless and tasteless. PVC pipes have been listed by the national sanitation foundation for use with potable water.

MAXIMUM BENEFIT AT LOW COST

SIGNET Column pipes are available in 3 meter length. Due to this required length of pipe can be installed on the basis of depth of availability of water.

BIAXIAL ORIENTATION FOR HIGH IMPACT STRENGTH

The substantial increase in strength properties, which results from biaxial orientation is shown by the stress rupture regression Line in figure - a.

SIGNET column pipes are manufacturing by Bi-Axial technology during extrusion process to occupy high impact strength thereby any breakage in pipe is quite less is shown in figure - b.

Figure - a

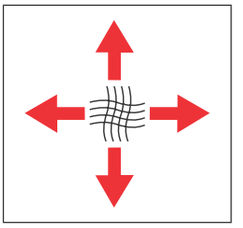
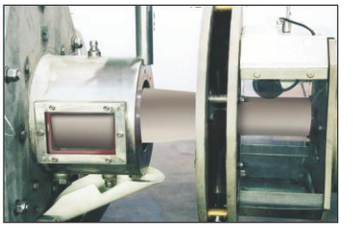


Figure - b

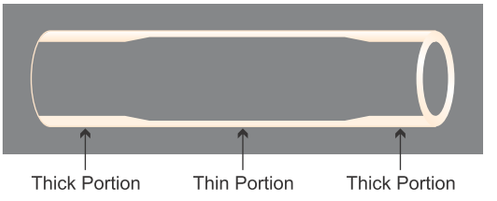


HIGH TENSILE STRENGTH

SIGNET Column pipes are having high tensile strength. Hence, they do not reform even under deep installation. Therefore life of pipe increases.

THICK & THIN

SIGNET Column pipes are manufactured with thick & thin technique to ensure the strength of pipe even at thread end too. Pipes end & barrel have specific thickness which improves the strength of pipes and same time save material consumption and thereby are cost effective.



LOW FRICTION LOSS

The smooth interior surfaces of SIGNET column pipes assure low friction loss and high flow rate. Additionally, since SIGNET column pipe will not rust, pit, scale or corrode, the high flow rate will be maintained for the life of piping system.

LOW THERMAL CONDUCTIVITY

SIGNET Column pipes are having much lower thermal conductivity factor than metal pipe. Therefore, fluids being piped ma-intain a more constant temperature.

CORROSION FREE EXTERNAL & INTERNAL

With many other pipe materials, slight corrosion may occur. The corroded particles can contaminate the pipe fluid, complicating further processing or causing bad tastes, odors or discoloration. This is particularly undesirable when the piped fluid is for domestic consumption. with SIGNET column pipes there are no corrosive by products, therefore no contamination of the pipe fluid.

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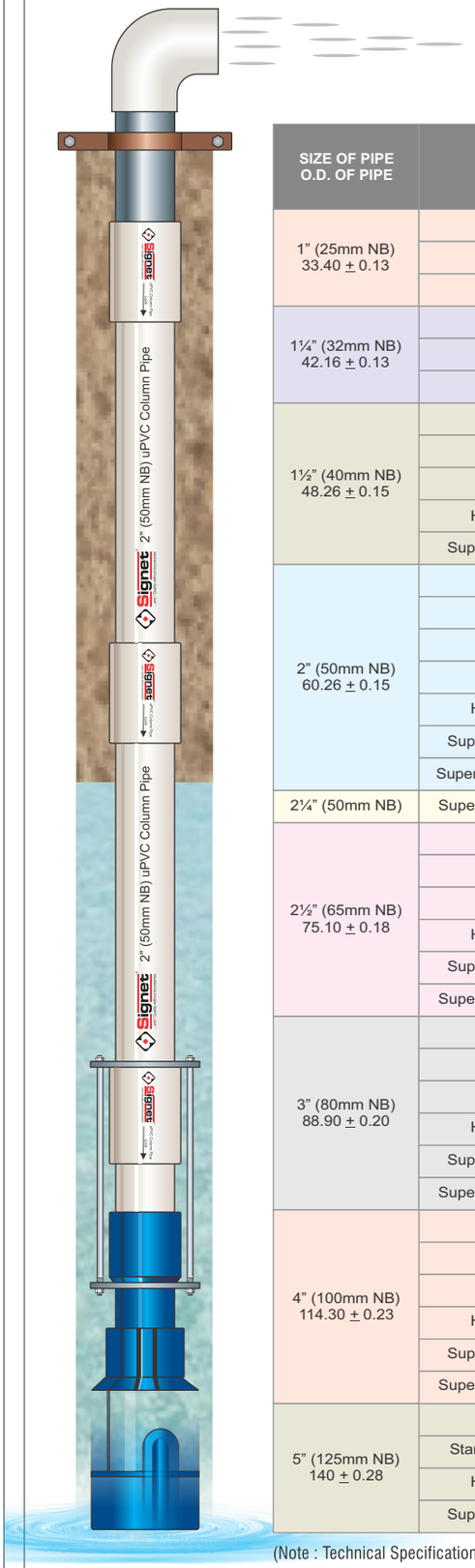

Technical Specification for SIGNET uPVC Column PIpes

SIZE OF PIPE O.D. OF PIPE	CLASS & TYPE	THICKNESS OF PIPE	COUPLER LENGTH	EFFECTIVE PIPE LENGTH	SAFE ALLOWABLE HYDROSTATIC PRESSURE	ULTIMATE BREAKING LOAD (kgf)	SAFE PULLING LOAD WITH CHAIN PULLEY (kgf)	SAFE TOTAL PUMP DEL. HEAD (m)
1" (25mm NB) 33.40 ± 0.13	Economy (Coupler)	4.00	110	3000±5mm	12	1000	600	120
	Medium (Coupler)	4.30	110	3000±5mm	17	1250	750	170
	Standard (Coupler)	6.00	110	3000±5mm	30	1900	1100	300
1¼" (32mm NB) 42.16 ± 0.13	Economy (Coupler)	4.50	120	3000±5mm	12	1550	900	120
	Medium (Coupler)	5.20	120	3000±5mm	15	1800	1050	150
	Standard (Coupler)	6.50	120	3000±5mm	25	2550	1500	250
1½" (40mm NB) 48.26 ± 0.15	Economy (Coupler)	4.80	130	3000±5mm	12	2000	1200	120
	Medium (Coupler)	5.40	130	3000±5mm	15	2500	1500	150
	Standard (Coupler)	6.20	130	3000±5mm	18	2950	1700	180
	Heavy (Long Coupler)	8.70	150	3000±5mm	35	4050	2350	350
	Super Heavy (Long Coupler)	9.70	160+	3000±5mm	40	4100	2400	400
2" (50mm NB) 60.26 ± 0.15	Economy (Coupler)	4.00	150	3000±5mm	8	1700	1000	80
	Medium (Coupler)	5.20	150	3000±5mm	14	2450	1450	140
	Standard (Coupler)	6.60	150	3000±5mm	21	3600	2100	210
	Heavy (Coupler)	8.30	150	3000±5mm	28	4700	2800	280
	Heavy (Long Coupler)	8.30	230	3000±5mm	28	4700	2800	280
	Super Heavy (Long Coupler)	9.50	230	3000±5mm	35	5650	3350	350
	Super Heavy++ (Long Coupler)	11.10	230	3000±5mm	40	6200	3500	400
2¼" (50mm NB)	Super Heavy ++(Long Coupler)	9.00	230	3000±5mm	30	5700	3380	300
2½" (65mm NB) 75.10 ± 0.18	Medium (Coupler)	5.50	155	3000±5mm	10	3100	1800	100
	Standard (Coupler)	6.60	155	3000±5mm	17	4600	2700	170
	Heavy (Coupler)	9.50	155	3000±5mm	27	7000	4200	270
	Heavy (Long Coupler)	9.50	230	3000±5mm	27	7000	4200	270
	Super Heavy (Long Coupler)	11.50	230	3000±5mm	35	9000	5300	350
	Super Heavy ++(Long Coupler)	12.50	230	3000±5mm	40	10200	6100	400
3" (80mm NB) 88.90 ± 0.20	Medium (Coupler)	6.20	160	3000±5mm	11	4400	2600	110
	Standard (Coupler)	7.60	160	3000±5mm	17	6800	4000	170
	Heavy (Coupler)	10.10	160	3000±5mm	26	9500	5650	260
	Heavy (Long Coupler)	10.10	230	3000±5mm	26	9500	5650	260
	Super Heavy (Long Coupler)	13.00	230	3000±5mm	35	12400	7300	350
	Super Heavy ++(Long Coupler)	13.00	230	3000±5mm	40	14500	8000	400
4" (100mm NB) 114.30 ± 0.23	Medium (Coupler)	6.70	175	3000±5mm	10	6800	4000	100
	Standard (Coupler)	8.50	175	3000±5mm	15	10000	5900	150
	Heavy (Coupler)	12.60	175	3000±5mm	26	15900	9350	260
	Heavy (Long Coupler)	12.60	280	3000±5mm	26	15900	9350	260
	Super Heavy (Long Coupler)	16.40	280	3000±5mm	35	20500	12150	350
	Super Heavy ++(Long Coupler)	19.20	280	3000±5mm	40	25500	14200	400
5" (125mm NB) 140 ± 0.28	Standard (Coupler)	12.00	200	3000±5mm	16	16500	9600	160
	Standard ++ (Long Coupler)	12.00	300	3000±5mm	16	16500	9600	160
	Heavy (Long Coupler)	16.00	300	3000±5mm	26	24000	14600	260
	Super Heavy (Long Coupler)	19.50	300	3000±5mm	35	30500	18600	350

(Note : Technical Specifications are for reference and not forming a part of terms and conditions offered. It may very within tolerance limits)

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Square Thread

Sterling column pipes have specially designed square threaded both end of pipe as well as coupler therefore pulling load capacity is excellent even under deep bore wells.

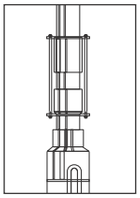
Rubber Ring

Specially designed Rings are used for seal & grip which provides 100% leak proof system and also absorbs vibration of the pumps.

Installation care

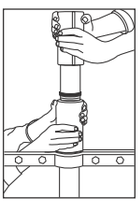
Clean pipe thread with pure water. Do not use oil / grease on thread.

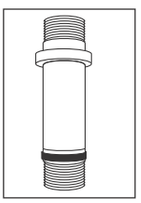
Use pump guard / bottom adaptor (male thread) with pump and tight adequately using chain wrench.



Fit male thread pipe immediately after pump guard / bottom adaptor and then male-female pipe joint for required length.

Apply pipe clamp at each joint for lowering pipe.





Use top adaptor after complete installation.

Pipe Accessories

Lowering tool

C.I. Adaptor

Pump guard

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MATERIAL CLASSIFICATION

Proper raw materials with specified grades (Pe63, Pe80 & Pe100) are selected for production and these polyethylene are polymerized in controlled environment thus producing PE pipes of high quality products, superiority on nature. Polyethylene (PE 100) pipes can carry potable water, waste water, slurries, chemicals, hazardous wastes, & compressed gases. In fact PE-100 is strong, extremely tough and very durable when compared to it preceding materials like PE-80, & PE-63 Grade. PE-100 Pipe has superior qualities in terms of mechanical and also other properties when compared to PE-80 & PE-63. The polyethylene material used for the manufacture of pipeline systems are classified and dimensioned by long term performance under hydrostatic pressure in accordance with IS 4984:1995. The design basis used in IS 4984:1995 for Pressure rating (PN) of PE Pipes in order to determine the minimum wall thickness for each diameter and PN rating provides for the steady and continuous application of the maximum allowable working pressure over an arbitrary period of 50 years. The selection of the long term hydrostatic design stress values (HDS) is dependent on the specific grade of PE and the pipe material service temperature.

CHARACTERISTICS & PROPERTIES OF HDPE PIPES

The inherent flexibility of the HDPE Pipes provides this product with its inherent minimum pipe stiffness of 320 kPa or 210 kPa. The smooth inner wall provides longitudinal stiffness which enables alignment and grade to be maintained in the trench during installation.

UV RESISTANCE

HDPE Pipe contains a minimum of 2% carbon black additives to protect the product from ultraviolet light. This gives HDPE Pipe maximum weather resistance in applications where continuos exposure to the elements is expected.

CHEMICAL RESISTANCE

HDPE has the highest level of chemical resistance of all traditional sewer products. HDPE pipe brings the gravity flow sewer market the same exceptional performance remaining tough and resistant under conditions that could seriously damage pipe made of other conventional materials.

RECOMMENDED PH RANGE

HDPE material provides excellent resistance to both acidic and alkaline environments with strong acids through all base, ranging PH 1.25 to 14.

ABRASION RESISTANCE

Tests indicate that HDPE Pipe is highly resistant to abrasion, giving it a significant advantage over other pipe materials in both acidic and abrasive environments. Piping made from polyethylene is a cost effective solution for a broad range of piping problems in municipal, industrial, marine, mining, landfill, duct and agricultural applications. it has been tested and proven effective for above ground, surface, buried, slip lined, floating and sub-surface marine applications.

DUCTILITY & TOUGHNESS

Polyethylene Pipe & fittings are inherently tough, resilient and resistant to damage caused by external loads, vibrations and from ressure surges such as water hammer. even in cold weather polyethylene pipe is tolerant to handling and bending.

ADVANTAGES BY USING HDPE PIPES

The design and construction of HDPE product offer a distinct weight advantage over conventional pipe. They Provide ease of handling, positioning, installing and connecting those conventional pipes cannot match. HDPE pipe affords these important ben-efits to the user.

SAVING ON INSTALLATION

Due to its light weight, less manpower and lighter machinery is needed to transport, handle & connect HDPE pipe compared to most of the other pipes. That's real saving and real value added by using HDPE pipes.

IMPACT TOUGHNESS

PE pipe is highly resistant to the rigors of installation handling in tough environment prevailing at the site location. HDPE pipe can be installed with confidence in the hottest of summer or the coldest of winter conditions.

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DIMENSIONS OF HDPE PIPES AS PER IS : 4984 : 2016

All Dimensions in Millimeters for use in Water Supply

PE-63

Outside DIA	Tolerance on Outside DIA	PN - 2.5		PN - 4		PN - 6		PN - 8		PN - 10		PN - 12.5		PN - 16	
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
32	+0.3	-	-	-	-	2.3	2.8	3.0	3.5	3.6	4.3	4.4	5.2	5.4	6.2
40	+0.4	-	-	2.0	2.4	2.9	3.4	3.7	4.3	4.5	5.2	5.5	6.3	6.7	7.6
50	+0.5	-	-	2.4	2.9	3.6	4.2	4.6	5.3	5.6	6.4	6.8	7.7	8.4	9.5
63	+0.6	2.0	2.4	3.0	3.5	4.5	5.2	5.8	6.6	7.1	8.1	8.6	9.7	10.5	11.8
75	+0.7	2.3	2.8	3.6	4.3	5.3	6.1	6.9	7.8	8.4	9.5	10.2	11.5	12.5	14.0
90	+0.8	2.8	3.3	4.4	5.1	6.4	7.3	8.2	9.3	10.1	11.4	12.2	13.7	15.0	16.7
110	+1.03	3.4	4.0	5.0	6.0	7.8	8.8	10.0	11.2	12.4	13.8	14.9	16.6	18.4	20.5

PE-80

Outside DIA	Tolerance on Outside DIA	PN - 2.5		PN - 4		PN - 6		PN - 8		PN - 10		PN - 12.5		PN - 16	
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
32	+0.3	-	-	-	-	-	-	2.4	2.9	3.0	3.5	3.6	4.2	4.5	5.2
40	+0.4	-	-	-	-	2.3	2.8	3.0	3.5	3.7	4.3	4.5	5.2	5.6	6.4
50	+0.5	-	-	2.3	2.8	2.9	3.4	3.8	4.4	4.6	5.3	5.6	6.4	6.9	7.8
63	+0.6	-	-	2.5	3.0	3.6	4.2	4.7	5.4	5.8	6.6	7.0	7.9	8.7	9.8
75	+0.7	-	-	2.9	3.4	4.3	5.0	5.6	6.4	6.9	7.8	8.4	9.5	10.4	11.7
90	+0.8	2.3	2.8	3.5	4.1	5.1	5.9	6.7	7.6	8.2	9.3	10.0	11.2	12.5	14.0
110	+1.03	2.7	3.2	4.3	5.0	6.3	7.2	8.2	9.3	10.0	11.2	12.3	13.8	15.2	17.0

PE-100

Outside Diameter	Tolerance on Outside DIA	PN - 6		PN - 8		PN - 10		PN - 12.5		PN - 16	
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
32	+0.3	-	-	-	-	2.4	2.9	2.9	3.4	3.7	4.3
40	+0.4	-	-	2.4	2.9	3.0	3.5	3.7	4.3	4.6	5.3
50	+0.5	2.3	2.8	3.0	3.5	3.7	4.3	4.6	5.3	5.7	6.5
63	+0.6	2.9	3.4	3.8	4.4	4.7	5.4	5.7	6.5	7.1	8.1
75	+0.7	3.5	4.1	4.5	5.2	5.6	6.4	6.8	7.7	8.5	9.6
90	+0.9	4.1	4.8	5.4	6.2	6.7	7.6	8.2	9.3	10.2	11.5
110	+1.0	5.0	5.7	6.6	7.5	8.1	9.2	10.0	11.2	12.4	13.9

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Application

- Agriculture
- Bathrooms
- Interiors
- Commercial spaces
- Public spaces
- Hospital
- Exteriors
- Supper Market
- Airport
- Shopping Center
- Industries
- School
- Hotel
- Domestic
- Office
- Restaurant-Café

IS:4984-95
CM/L.-2834867

ROHS

DAC
DUBAI ACCREDITATION CENTER

CUSTOMER SATISFACTION

100% QUALITY TESTED

Energy Saver Pump

Taxes :

1. GST is Extra as per Government Rules.
2. Any revision on taxes or any new levies will be to buyer's Account.

Term & conditions :

1. Prices are Ex-works, Veraval (Shapar) Rajkot.
2. Payment will be advance on the favor of M/s. STERLING PIPE INCORPORATION.
3. This price list cancels all the previous Price List & subject to change without prior notice.
4. All the transactions subject to Rajkot jurisdiction.

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स्वच्छ भारत
एक कदम स्वच्छता की ओर

MAKE IN INDIA

STERLING PIPE INCORPORATION

Plot No. 140/141, Survey No. 129, S.I.D.C. Shantidham,
Veraval (Shapar), Dist. Rajkot. (Gujarat) INDIA.

sterlingpipeindia@gmail.com
www.sterlingpipeindia.com