

POLYSTEELPIPE

... Quality Piping For Your Every Need

PSP®



**SPAN**  
Suruhanjaya Perkhidmatan Air Negara



Revolutionary Pipe

# Poly Steel Pipe Sdn Bhd

Incorporated on 17th September 2002, Poly Steel Pipe Sdn Bhd is a joint venture between Puas Bhd and Standard Spectrum Sdn Bhd. Lately Etika Laksana had taken the equity of Puas Bhd. On early year 2008, Poly Steel Pipe Sdn Bhd had purchase the machinery to manufacture Poly Steel Pipes locally in Malaysia. The company had supplied pipes and fittings to various industry players, making it the first and only company to introduce Poly Steel Pipes and Fittings to the Malaysia water industry. This revolutionary features of the Poly Steel Pipes and Fittings has made our products unique in the industry and we strongly believe that they will propel the nation's water industry to new heights of efficiency and success.



A guaranteed high quality water supply is an essential element for good health and high quality life. High level of sulfate, chloride and nitrate ions in drinking water will cause pollution to the water and corrosion to the inside surface of the pipe. If a corroded pipe line is used to transfer drinking water it will inevitably cause sever health problem.

## What is Poly Steel Pipe?

### **Poly Steel Pipe** **-Communication Pipe-** **(HDPE-Steel-HDPE)**

"Poly Steel Pipe" Communication Pipes are composite pipe made of steel bonded in the middle with Polyethylene (HDPE), both as the external and internal linings.

Since "Poly Steel Pipe" Communication Pipes are durable, anti-rust, non-corrosive and resistant to acids, these pipes are widely being used for the transportation of hot and cold drinking water, beverages, gases, heating liquid and wastage water.

### **Poly Steel Fittings** **-Fittings-**

"Poly Steel Fitting" are made of Malleable Cast Iron bodies with Epoxy Coating and Polypropylene (PP) lining with the rubber Sealing Ring (O-ring) inserted at the joints, it prevent water leakage on the thread joints. The PP internal lining prevents contact of transported substance with the Malleable Cast Iron underneath, resulting in lasting durability and high resistances to deterioration, even in the most extreme environment.



# What Makes Poly Steel Pipes and Fittings Different and Unique?

## Resistant to Corrosion

Our pipes are lined with the polyolefin family, which are renowned for its toughness and long working life. These materials enable our pipes to be resistant to acid, alkalines, salt of various kinds, chemicals and corrosion of any plastic used in the manufacturing of plumbing pipes.

## Clean and Healthy

Poly Steel Communication Pipes plumbing system is designed to provide you with the cleanest and safest drinking water. Poly Steel Communication Pipes are clean, its non-corroding plastic interior is resistant to deterioration in aggressive water conditions. So, no worries about odour, colour or taste problems.



## Superior Flow

Smooth Internal HDPE and PP Lining used in our pipes and fittings will permanently resist scaling and mineral build-up. Efficiency in design has also resulted in using half of the fittings used in other system. Fewer fittings translate to reduced chances of leakage and liability. This keeps water flow constant year after year.

## Low Expansion and Contraction

Although "Poly Steel Pipes" looks very similar to other PE pipe, its expansion rate is almost the same as galvanized iron. The steel core in our pipes control the amount of expansion and contraction in the pipes, so that there will be no worries in built-in costs and pipe offset time.

## Recognition

" Poly Steel Pipe" products are recognized and certified by SPAN , SIRIM and ISO 9001 Quality Management System.

# POLYSTEEL

## RANGE OF



**90° ELBOW**



**45° ELBOW**



POLY STEEL PIPE (PSP)



POLY STEEL PIPE (PSP)

POLY S



**90° REDUCING ELBOW**



**MALE & FEMALE ELBOW**



**NIPPLE**



**REDUCING NIPPLE**



**PLUG**



**REDUCING BUSH**

# STEEL PIPE

## PRODUCTS

SPC-HDPE DN 20MM X 6000MM CJ/T 136

SPC-HDPE DN 20MM X 6000MM CJ/T 136

STEEL PIPE



**EQUAL TEE**



**REDUCING TEE**



**CROSS TEE**



**EQUAL SOCKET**



**REDUCING SOCKET**



**MALE & FEMALE SOCKET**



**UNION**



**THREADING TOOLS  
(CLAMPS)**

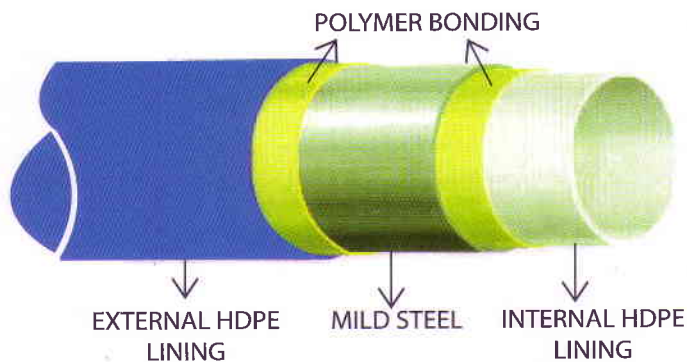
# Technical Specifications

## Poly Steel Pipe Table

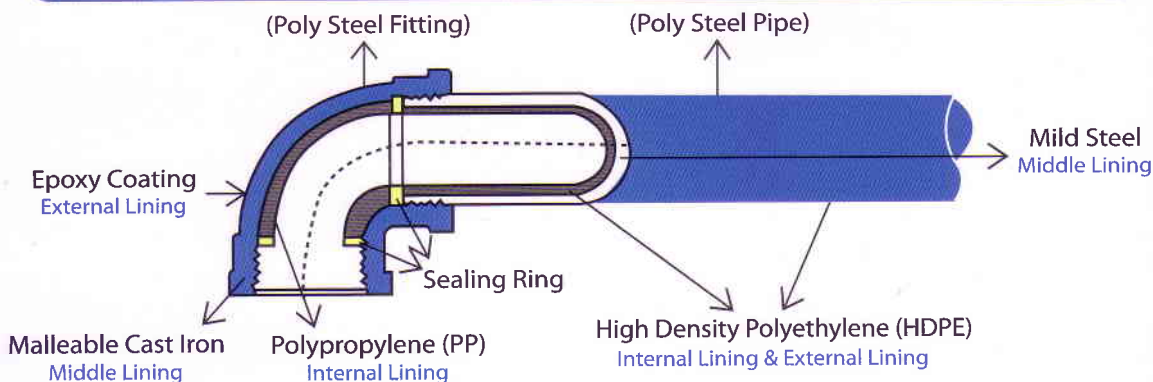
PN 16								
Dimension			Wall Thickness			Total Weight of Pipe +/- 5% KG/Length	Length +/- 5% mm	
Nominal Diameter		Internal Diameter +/- 5%	External Diameter +/- 5%	External HDPE +/- 10%	Steel Plates +/- 10%			Internal Diameter +/- 10%
mm	Inch	mm	mm	mm	mm	mm		
15	1/2	13.3	23.5	1.0	2.60	1.50	7.82	6000
20	3/4	18.8	29.0	1.0	2.60	1.50	9.92	6000
25	1	24.5	35.9	1.0	3.20	1.50	15.08	6000
32	1 1/4	33.3	44.7	1.0	3.20	1.50	19.28	6000
40	1 1/2	38.5	49.9	1.0	3.20	1.50	22.26	6000
50	2	50.5	62.7	1.0	3.60	1.50	31.20	6000
65	2 1/2	65.5	78.7	1.5	3.60	1.50	40.10	6000
80	3	77.5	91.7	1.5	3.60	2.00	52.80	6000
100	4	103.0	117.2	1.5	3.60	2.00	62.50	6000

Kindly refer to the tolerance % as stated above.

### Poly Steel Pipe Diagram



### Poly Steel Pipe and Fitting Connection Diagram

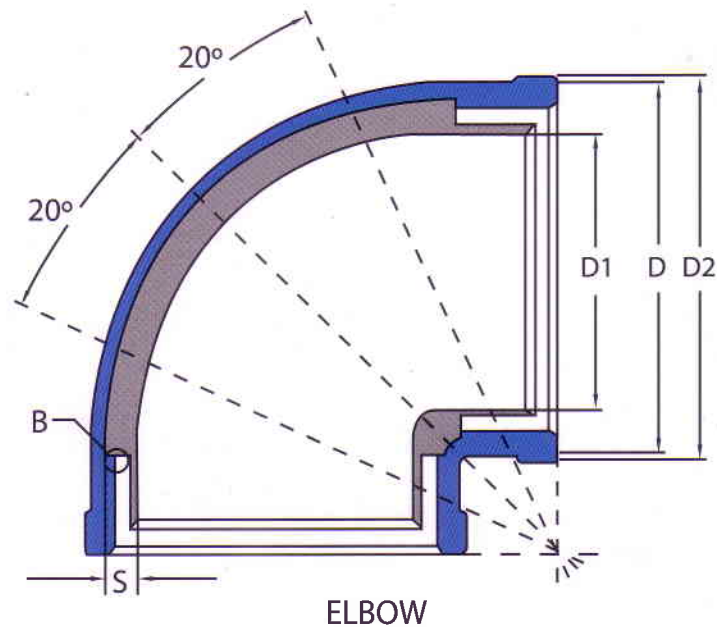


# Technical Specifications

## Poly Steel Fitting Table

Nominal Diameter		Internal Diameter	External Diameter	Wall Thickness	Flat End of External Diameter	Wall Thickness of PP Lining	Epoxy Coating Thickness
		D1	D	B	D2	S	T
mm	Inch	mm	mm	mm	mm	mm	mm
15	1/2	11.0	28.0	2.5	29.0	6.0	0.1
20	3/4	16.0	34.0	3.0	36.0	6.0	0.1
25	1	21.0	41.0	3.0	43.0	7.0	0.1
32	1 1/4	29.4	51.0	3.5	52.0	7.3	0.1
40	1 1/2	34.6	57.0	3.5	59.0	7.7	0.1
50	2	45.6	70.0	4.0	72.0	8.2	0.1
65	2 1/2	59.0	85.0	4.0	88.0	9.0	0.1
80	3	69.0	99.0	5.0	103.0	10.0	0.1
100	4	94.0	126.0	5.0	130.0	11.0	0.1

### Poly Steel Fitting - Elbow Diagram





**POLYSTEELPIPE**

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