


 Aimed for New Technology and High Quality
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Aimed for New Technology and High Quality

BST PIPE



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Bosung poly tech co.,LTD.

<http://www.bstpipe.co.kr>

BOSUNG POLY TECH

EXECUTIVES AND STAFFS

BosungPolyTech, Co., Ltd. is a specialist in manufacturing and sales of polyethylene pipe for water supply, polyethylene corrugated pipe for water supply, structural polyethylene sewer pipe (double / multi- wall) coupler for polyethylene sewer pipe, polyethylene-based downspout, PE-composite manhole, pipes for fisheries, floating offshore structure, and corrugated pipe as well as other related structures, which are used for civil engineering, constructions, and fisheries.

Since its establishment, the company has set customer satisfaction as the utmost management policy, and is striving to fulfill the social responsibility. The company has acquired ISO9001 in Quality Management Systems, KS Qualification, Qualification for Excellent Group & Standardized Product, Qualification for Hygiene and Safety, Excellency in Product for Procurement, and the like, to provide best quality and product. The company provides best quality control service, including its perfected A/S.

The technology obtained through experience and with cutting-edge facility, the company promises to make the most in developing new products, and to realize customer satisfaction with best quality.

Thank you.

History is

- 2017 Entered Alibaba GGS (Global Golden Supplier)
First Export to China, amounting to USD 26,000
- 2016 Environmental Mark Acquired from Korea Environmental Industry & Technology Institute (No. 12806)
-Drainpipe for discharging recycled plastics (Double / Multi- Wall) Acquired KS M 3408-3 Authentication from Korean Standards Association
-Plastic Pipe-based Polyethylene-3rd Part Corrugated pipe for Water Supply
Designated as Excellent Product for Procurement by Public Procurement Service
- 2015 Registered Patent (No.1505052) FLOORING PIPE HAVING IMPROVED HEAT AND WEAR RESISTANCE FOR THERMOELECTRIC POWER PLANT FLOORING TRANSFER
- 2014 K-Mark Acquired by Korea Testing Laboratory (Coupler-combined PE Double / Multi- Wall Sewer Pipe)
- 2012 Authenticated for Structural Polyethylene Pipe for Water Supply and Sewer (KS M 3500-1, 3500-2) by Korea Standards Association
Registered Patent (No. 1129476) for HIGH-TEMPERATURE PIPE
Acquired Authentication for Hygiene and Safety Standard from Korea Water and Wastewater Works Association.
KPS M 2017 Acquired for Excellent Group and Standard Product
- 2011 Registered Patent (No.0920808), SEALING AND PIPE CONNECTION SOCKET USING SAME SEALING
- 2010 Acquired KS M 3408-2 for Plastic Pipe System for Water Supply by Korea Standards Association
- 2008 Admitted for Newly Available Material for Construction [BF3P] by Korea Land Corporation
- 2006 Selected as an INNOBIZ Company (Small and Medium Business based on Technology and Innovation)
Selected as Excellent Product for Procurement by the Public Procurement Service [Flange-type Electric-Fused Multi-layered Sewer Pipe]
- 2005 Excellent Product Mark (GQ) Authentication (for PE Double-wall and Multi-layered Sewer Pipe) Acquired
Registered Design (No. 0392468)
Addition of Multi-layered Pipe in KS M 2009 from KFPIC Excellent Group with Standard Product
Registered Utility Model (No.0353919) for PE Electric-fused Corrugated pipe
- 2004 Additional Authentication for 2-story Pipe in KS M3408-2 (PE Water Supply Pipe)
- 2003 KPS M 2009 Acquired for Double-wall Sewer Pipe from KFPIC
KS M 3408(PE Water Supply Pipe) Acquired
- 2002 Q Mark (Quality Assurance for Double-wall PE Pipe) Acquired
ISO 9001 Acquired
- 2001 Establishment of BosungPolyTech, Co., Ltd.

Polyethylene Pipe for Water Supply

KS M 3408-2

Product Use

- **Basic use** - Water Supply, Water Distribution, Feedwater
- **Applied use** - Agriculture, Seawater for Industry use, Dredging, Leachate, Chemicals, Aquafarm, Pool, PLANT, Sprinklers in Golf Courses, Firefighting Equipment



Basic Properties

Items	Unit	Repr. Value
Indices of Application (190°C, 2.16kg)	g/10min	0.12
Density	g/cm ³	0.958
Tensile Strength (Yield Point)	kg/cm ²	220
Elongation	%	>600
Bending Elasticity	g/cm ²	8,500
Hardness	R Scale	30
Impulse Strength	kg cm/cm	>50

Items	Unit	Repr. Value
Environmental Stress Crack Resistance	hr, F50	>5,000
Melting Point	°C	132
Softening Point	°C	122
Oxidative Induction Time (200°C)	min	>40
Deformation Temperature	°C	60
Brittle Temperature	°C	<-70
Carbon Black Contents	%	2.3

Features

- Chemical Stability
- Hygiene
- Fluidity
- Flexibility
- Light-weight
- Combining Capability
- Corrosion Resistance
- Impact Resistance
- Cold Resistance
- Wear Resistance
- Economic Feasibility

Connection of Pipe



Product Specifications (Wall Thickness)

SDR-TYPE												
	SDR 9	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26						
PE 80	PN 16	PN 12.5	PN 10	PN 8	PN 6 ⁽³⁾	PN 5						
PE 100	PN 20	PN 16	PN 12.5	PN 10	PN 8	PN 6 ⁽³⁾						
Dimensions	Wall Thickness ⁽²⁾											
	e min	e max	e min	e max	e min	e max	e min	e max	e min	e max	e min	e max
16	2.0 ⁽³⁾	2.3	-	-	-	-	-	-	-	-	-	-
20	2.3 ⁽³⁾	2.7	2.0 ⁽³⁾	2.3	-	-	-	-	-	-	-	-
25	3.0	3.4	2.3 ⁽³⁾	2.7	2.0 ⁽³⁾	2.3	-	-	-	-	-	-
32	3.6	4.1	3.0	3.4	2.4	2.8	2.0 ⁽³⁾	2.3	-	-	-	-
40	4.5	5.1	3.7	4.2	3.0	3.5	2.4	2.8	2.3 ⁽⁴⁾	2.3	-	-
50	5.6	6.3	4.6	5.2	3.7	4.2	3.0	3.4	2.4	2.8	2.0	2.3
63	7.1	8.0	5.8	6.5	4.7	5.3	3.8	4.3	3.0	3.4	2.5	2.9
75	8.4	9.4	6.8	7.6	5.6	6.3	4.5	5.1	3.6	4.1	2.9	3.3
90	10.1	11.3	8.2	9.2	6.7	7.5	5.4	6.1	4.3	4.9	3.5	4.0
110	12.3	13.7	10.0	11.1	8.1	9.1	6.6	7.4	5.3	6.0	4.2	4.8
125	14.0	15.6	11.4	12.7	9.2	10.3	7.4	8.3	6.0	6.7	4.8	5.4
140	15.7	17.4	12.7	14.6	10.3	11.5	8.3	9.3	6.7	7.5	5.4	6.1
160	17.9	19.8	14.6	16.4	11.8	13.1	9.5	10.6	7.7	8.6	6.2	7.0
180	20.1	22.3	16.4	18.2	13.3	14.8	10.7	11.9	8.6	9.6	6.9	7.7
200	22.4	24.8	18.2	20.5	14.7	16.3	11.9	13.2	9.6	10.7	7.7	8.6
225	25.2	27.9	20.5	22.7	16.6	18.4	13.4	14.9	10.8	12.0	8.6	9.6
250	27.9	30.8	22.7	25.4	18.4	20.4	14.8	16.4	11.9	13.2	9.6	10.7
280	31.3	34.6	25.4	28.6	20.6	22.8	16.6	18.4	13.4	14.9	10.7	11.9
315	35.2	38.9	28.6	32.2	23.2	25.7	18.7	20.7	15.0	16.6	12.1	13.5
355	39.7	43.8	32.2	36.3	26.1	28.9	21.1	23.4	16.9	18.7	13.6	15.1
400	44.7	49.3	36.3	40.9	29.4	32.5	23.7	26.3	19.1	21.2	15.3	17.0
450	50.3	55.5	40.9	45.4	33.1	36.6	26.7	29.5	21.5	23.8	17.2	19.1
500	55.8	61.5	45.4	50.8	36.8	40.6	29.7	32.8	23.9	26.4	19.1	21.2
560			50.8	57.2	41.2	45.5	33.2	36.7	26.7	29.5	21.4	23.7
630			57.2		46.3	51.1	37.4	41.3	30.0	33.1	24.1	26.7

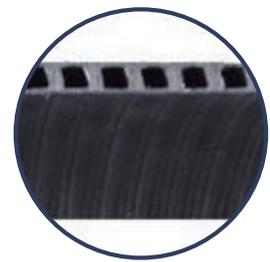
Structural Polyethylene Sewer Pipe

KPS M 2009, KS M 3500-1, KS M 3500-2

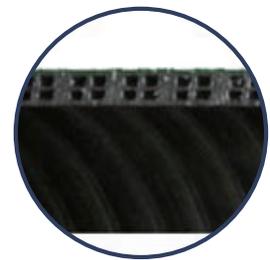
Product Use

- For Sewer Treatment, Agriculture, Wastewater, Rainwater, Water Supply, Livestock Wastewater Treatment Facility, Pipes for Land Readjustment and Development

- **Double-wall** - Made of mechanical extrusion of high density polyethylene (HDPE)



- **Multi-wall** - Made of mechanical extrusion of high density polyethylene (HDPE), reinforced as “+” shape within the profile



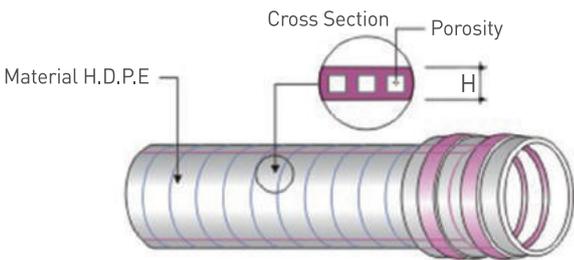
Product Size

Name	Average Inner Diameter Tolerance	Double-wall Thickness	Multi-wall Thickness	Length
150	± 4.5	13	15	4 or 6(m)
200	± 5.1	14	16	
250	± 5.1	15	17	
300	± 5.1	19	20	
350	± 5.1	22	24	
400	± 5.1	25	30	
450	± 5.1	29	30	
500	± 5.1	31	35	

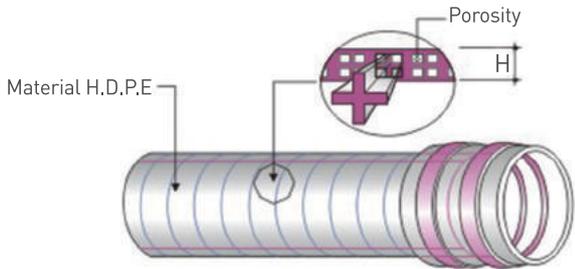
Name	Average Inner Diameter Tolerance	Double-wall Thickness	Multi-wall Thickness	Length
600	± 5.1	39	47	4 or 6(m)
700	± 6.4	44	50	
800	± 6.4	50	58	
900	± 6.4	56	62	
1000	± 6.4	62	75	
1200	± 6.4	75	95	
1500	± 7.6	95	105	

One-way type / Socket type

- High Density Polyethylene (HDPE) is mechanically extruded to form a double / multi-layer structure. The end portion of the structure is integrated with one-way socket



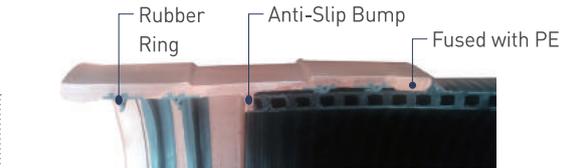
Double-wall type with one-way socket



Multi-wall type with one-way socket



Socket type



Socket type Cross Section

Sewer Pipe Coupler

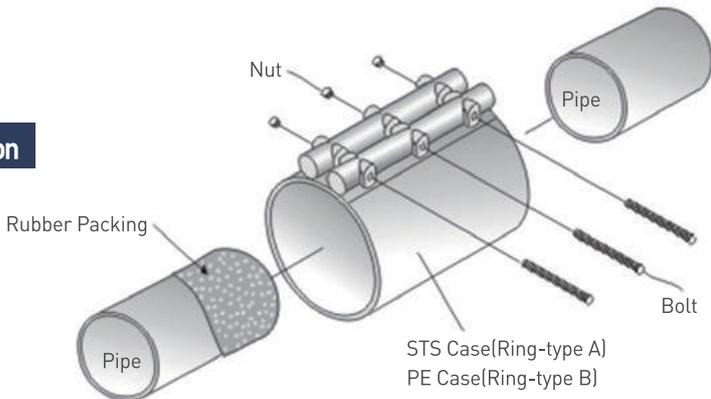
- Cylindrical rubber is inserted to the pipe, covered by STS or PE case, and jointed by bolt



Ring-type A for support and combination

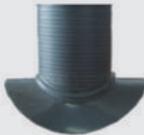


Ring-type B for support and combination



Types and Sizes of Fittings

Joint pipe in Sewer System- Types and Sizes

45° Elbow D150 ~ D1500		90° Elbow D150 ~ D1500		Pipe Connector D150 ~ D1500	
EQUAL TEE D150 ~ D1500		UNEQUAL TEE D200×150~D1500×1000		Saddle Manifold D150 ~ D300	

Joint pipe in Water Supply System – Types and Sizes

• Butt Fusion Fittings

Socket D20~D63		45° Elbow Socket Welding D20~D63 Butt Welding D90~D800		90° Elbow Socket Welding D20~D63 Butt Welding D90~D800	
Equal Tee Socket Welding D20~D63 Butt Welding D90~D800		Reduced Tee Socket Welding D32X25 ~ D90X63 Butt Welding D110X50 ~ D800X710		Flange adapter(Stub End) Socket Welding D20~D63 Butt Welding D110~D1000	
End Cap Socket Welding D20~D63 Butt Welding D90~D630		Reducer Socket Welding D32X25 ~ D90X63 Butt Welding D110X50 ~ D800X710			

• Electoro Fusion Fittings

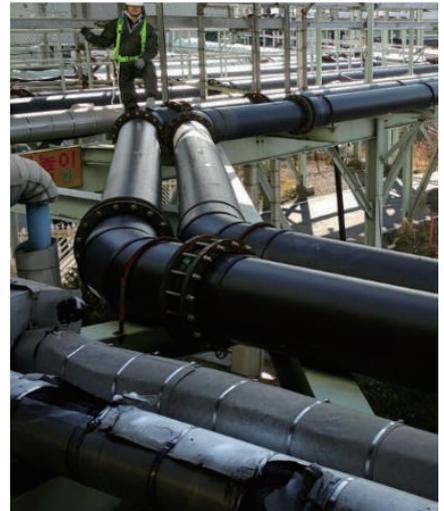
Socket D40~D400		45°, 90° Elbow D40~D315		Equal Tee Reduced Tee D50X40 ~ D315X315	
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• Screw Type Fittings

Socket D20~D110		45° Elbow D20~D100		90° Elbow D20~D100	
Reducer D25X20 ~ D110X90		Equal Tee D20~D110		Valve Socket D20~D110	

Pipes for Industrial Uses

■ Pipes for Transferring Chemical Substances / Plant Pipe / Firefighting Equipment, etc.

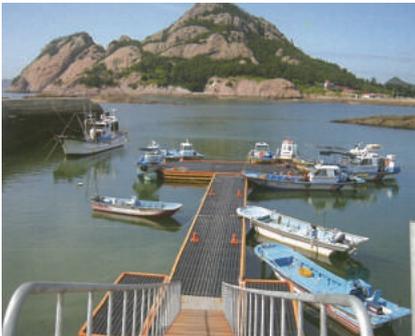


Offshore Floating Structures

Product Use

- **Gangway and Pier for Docking Facility** - Maritime Police, Public Office, Guidance Boat, Fishing Boat, Ferries
- **Offshore Amenities** - Offshore Toilet
- **Recreational Structures** - Houses on Water
- **Live Experience on Fishing Village, Mud-Flat** - Trail Ways on Mud-Flat, Entrance to Fishing Ground
- **Floating-type Pool** - Fixed/Mobile Floating Pool
- **Offshore Fishing Park** - Barge-type Fishing Facility

Examples



Docking Facility



Offshore Toilets



Floating-type Pool



Houses on Water



Offshore Fishing Parks



Entrance to Mud Flat or Fishing Ground

Fishery Pipe

Product Use

- **Aquafarm** – Rectangular and circular shapes
- **Seawater Pull-in** – Deep ocean water supply, fish market, seawater pull-in
- **Multi-purpose Barge** – Barge for collecting marine wastes, recreational barge

Examples



Aquafarms



Seawater Pull-in



Multi-purpose Barge