



Clean Water, Clear Solutions

**Glass Fiber Reinforced
Thermosetting Plastics (GRP)
Pipe**





Clean Water Clear Solutions

Siam Asia Environment Company Limited (SAE) is a partnership between Asia Environment Holdings Limited (ASIAENV) , listed in Singapore Stock Ex-change, and Siam Steel Works Company Limited (SSW).

Our factory trained crews offer new construction services and expertly install equipments. Our engineers can design solutions to complex process problems

GRP pipe are made of specially selected resins tailored to provide excellent resistance. GRP pipe has the following features:

- Corrosion resistance
- Light weight
- Consistency length
- Durability
- Lower temperature properties that the thermoplastic pipe and will



GRP pipe is approved supply to industries worldwide, including drinking water supply, industry water supply, wastewater supply, sea water supply, electrical processing, chemical processing, agriculture processing and other type of supply as per customer requirement.

Our pipes can be manufactured to meet or exceed standards set by TISI, AWWA and ASTM, as well as other industry and government specifications.



GRP Pipe Size/Diameter (ID)

Refer to TIS 1483-2549 (2006)

Class : PN 6, PN 10, PN 16			
Type : A (SN 1250), B (SN 2500), C (SN 5000), D (SN 10000)			
Nominal Dimension (ND)	Internal Diameter (ID)		
	mm	Max. (mm)	Min. (mm)
200	204	196	± 1.5
250	255	246	± 1.5
300	306	296	± 1.8
400	408	396	± 2.4
500	510	496	± 3.0
600	612	595	± 3.6
700	714	695	± 4.2
800	816	795	± 4.2
900	918	895	± 4.2
1000	1020	995	± 4.2
1200	1220	1195	± 5.0
1400	1420	1395	± 5.0
1500	1520	1455	± 5.0
1600	1620	1595	± 5.0
1800	1820	1795	± 5.0
2000	2020	1995	± 5.0
2200	2220	2195	± 5.0
2400	2420	2395	± 6.0
2500	2520	2495	± 6.0
2600	2620	2595	± 6.0

Note:

- (1) Design and manufacture can be carried out according to customer's specific requirements on dimensions and specifications.
- (1) Parameters will vary with different hardness and pressure.





Our GRP pipe can be used in both pressurized and unpressurized applications and is excellent for a wide variety of high pressure lines. We use only the finest quality resins and glass fiber in our fiberglass piping and ducting systems. We are committed in providing the very best in our Glass Fiber Reinforced Thermosetting Plastics (GRP) piping systems available on the market today. We insure the utmost quality and integrity in all of our fiberglass products.



GRP Fittings

1. 90° T-Joint Pipe Fitting Size — Nominal Internal Diameter (ID)

Internal Diameter (ID) mm	D mm	E mm
200	381	762
300	432	864
400	483	965
500	533	1067
700	648	1295
900	762	1524
1100	902	1803
1400	1016	2032
1600	1194	2388
2000	1422	2845
2400	1600	3201
2600	1753	3505

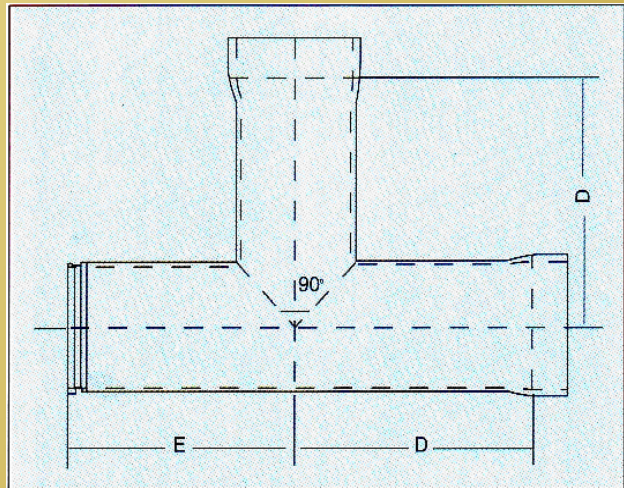
Internal Diameter (ID) mm	D mm	E mm
250	406	813
350	457	914
450	508	1016
600	610	1219
800	724	1448
1000	800	1600
1200	940	1880
1500	1092	2184
1800	1270	2540
2300	1524	3048
2500	1676	3353

Note:

(1) Types of Connections and Requirements

- Tapered Socket
- Socket Joint Adhesive Bond
- Connection via External Layer
- Flange Connection
- Rubber 'O' Ring

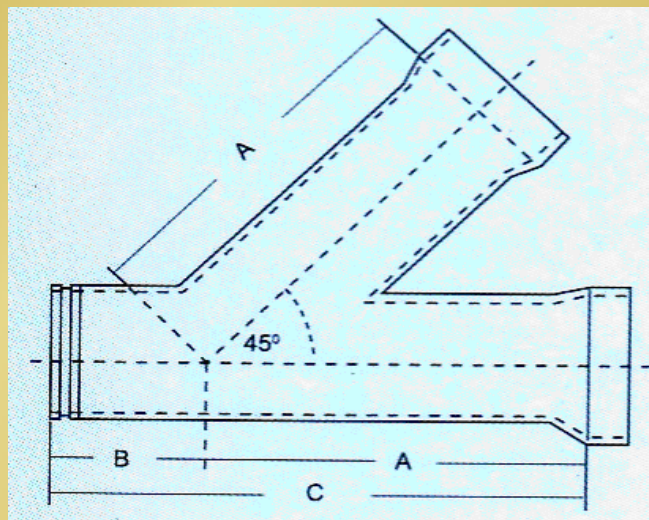
(2) Design and manufacture can be carried out according to customer's specific requirements on dimensions and specifications.



2. 45° "Y" Joint Pipe Fitting Size - Nominal Internal Diameter (ID)

Pipe Internal Diameter (ID) mm	A mm	B mm	C mm
200	610	330	940
300	737	343	1080
400	851	368	1219
500	976	394	1372
700	1194	432	1020
900	1473	470	1943
1100	1703	546	2311
1400	2045	597	2642
1700	2404	711	3175
2000	3043	820	3874
2400	3416	880	4305
2600	3810	973	4788

Pipe Internal Diameter (ID) mm	A mm	B mm	C mm
250	873	343	1016
350	787	366	1143
450	914	381	1295
600	1105	406	1511
800	1372	457	1829
1000	1565	483	2045
1200	1867	559	2426
1500	2235	622	2858
1800	2034	737	3391
2300	3226	851	4077
2500	3594	914	4488



Note:

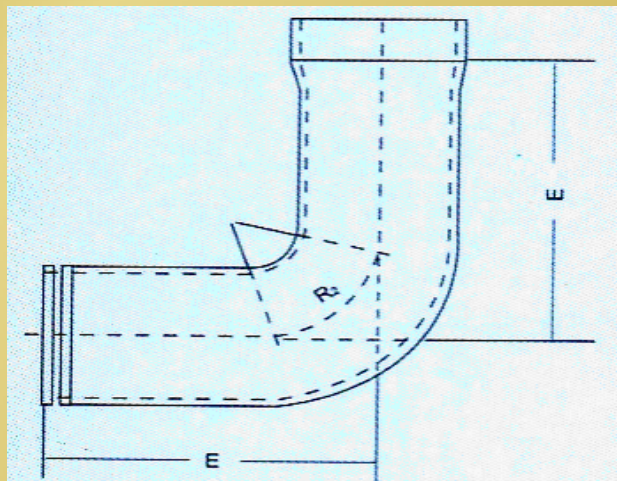
- (1) Design and manufacture can be carried out according to customer's specific requirements on dimensions and specifications.



3. 90° Pipe Fitting Size - Nominal Internal Diameter (ID)

Pipe Internal Diameter (ID) mm	E mm	R2 (45°) mm
200	660	305
300	787	457
400	940	610
500	1029	762
700	1308	1029
900	1638	1372
1150	1969	1715
1400	2286	2057
1700	2705	2515
2000	3340	3200
2400	3772	3658
2600	4204	4115

Pipe Internal Diameter (ID) mm	E mm	R2 (45°) mm
250	724	381
350	876	533
450	1029	686
600	1219	914
800	1549	1257
1000	1778	1486
1200	2070	1829
1500	2489	2286
1800	2921	2743
2200	3556	3429
2500	3988	3886

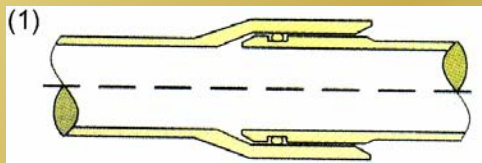


Note:

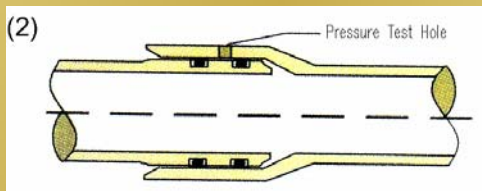
- (1) Design and manufacture can be carried out according to customer's specific requirements on dimensions and specifications.



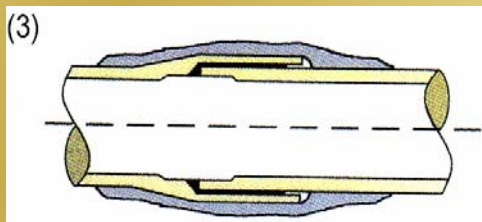
Connection of GRP Pipe



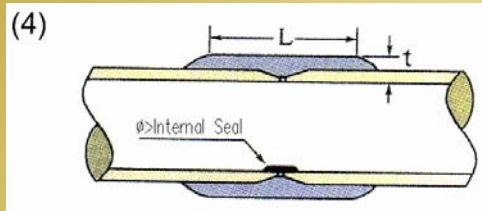
1. Single sealing ring joint
Suitable for medium & low pressure underground pipe lines



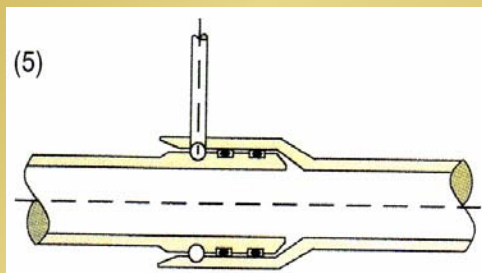
2. Double sealing ring joint
Suitable for high pressure underground pipelines. Pressure test is possible on single sealing ring.



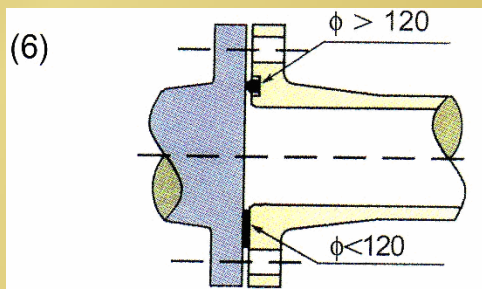
3. Joint sealing compound
Suitable for high pressure & complicated loading pipelines with larger diameter.



4. Direct joint
Suitable for high, medium & low pressure pipelines and pipe fittings, depending on the usage condition



5. Joint with the "O" nylon key
Suitable for higher pressure force along the pipe.



6. Flange joint
Suitable for medium & low pressure pipelines and equipment fittings. Suitable with standard pipe components.



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