



鼎联国际集团



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Ductile Iron Pipe

Ductile Iron Pipe Fitting

Ductile Iron Manhole Cover



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Ductile Iron Pipe

1. Ductile Iron Pipe

Ductile Cast Iron Pipe is the most widely-used pipeline product in water supply and water drain/sewage projects. Our D.I. pipe ranges from DN80-DN1600mm (Tyton, K8/K9 class), effective length:6m or 5.7m, comply with standard EN545/ISO2531/BS4772.



1. Technical Data

T Type Centrifugation DIP (Level K9, Effective Length: 6m)

Nominal Diameter	Outside Diameter	Wall Thickness	Approximate Weight of Socket Kg	Weight of Straight Section Kg/m	Weight of Standard Working Length Kg/Length	Number of Pipes Per Mile	Pipe weight Per Mile (Tons)
80	98	6.0	3.4	12.2	76.5	167	12.770
100	118	6.0	4.3	15.1	95	167	15.865
150	170	6.0	7.1	22.8	144	167	20.048
200	220	6.3	10.3	30.6	194	167	32.398
250	274	6.8	14.2	40.2	255	167	42.585
300	326	7.2	18.6	50.8	323	167	53.941
350	378	7.7	23.7	63.2	403	167	67.301
400	429	8.1	29.3	75.5	482	167	80.484
450	480	8.6	38.3	89.3	574	167	95.858
500	532	9.0	42.8	104.3	669	167	111.723
600	635	9.9	59.3	137.3	882	167	147.294
700	738	10.8	79.1	173.9	1123	167	187.541
800	842	11.7	102.6	215.2	1394	167	232.798
900	945	12.6	129.6	260.2	1691	167	282.397
1000	1048	13.5	161.3	309.3	2017	167	336.839
1100	1152	14.4	194.7	362.8	2372	167	396.124
1200	1255	15.3	237.7	420.1	2758	167	460.586

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2. Chemical Composition Comparative Statement

Chemical Composition Comparative Statement			
chemical composition (%)	DIP	Steel Pipe	Gray Pig Iron
(c)	3.5 - 4.0	0.1 - 0.2	3.2 - 3.8
(Si)	1.9 - 2.6	0.15 - 0.4	1.4 - 2.2
(Mn)	0.15 - 0.45	0.3 - 0.6	0.4 - 0.6
(p)	0.06	0.02 - 0.03	0.3
(s)	0.02	0.02 - 0.03	0.1
(Mg)	0.03 - 0.06	-	-

3. Pipe Anti-corrosion Comparative Statement under the Affect of Drinking Water

Pipe Anti - corrosion Comparative Statement under the Affect of Drinking Water		
Pipe Kinds	Corrosion (gr/cm ²)	
	After 45 days	After 90 days
DIP	0.006	0.009
Grey Iron Pipe	0.006	0.0103
Seamless Steel Pipe	0.017	0.0273
Welded Steel Pipe	0.0294	0.0396

4. Machinery Property

Machinery Property				
	DIP		Gray pig iron pipe	Steel pipe
	(Annealing)	(Non - Annealing)		
Tensile strength (N/mm ²)	420		150 - 260	400
Bending strength(N/mm ²)	590	300	200 - 300	400
Extensibility (%)	10	3-5	Neglect	18
Hardness(HB)	230		210	about 140
Hydraulic Testing Pressure(Mpa)	DN300	50		2.5 - 3.0
	DN350 - 600	40		
	DN700 - 1000	32		
Gas Leakage Test Pressure(Mpa)	0.3			

Ductile Iron Pipe Fitting

2. Ductile Iron Pipe Fitting

DIP fittings are the mating products for DIP with the specifications of DN 100mm-DN 1200mm. The products are widely used in various DIP. Pipe fitting surface shall be smooth and free from sand holes, blow holes, distortion or any other defects. They comply with EN 545 and ISO 2531 standard.

Ductile Iron Pipe Fitting



Mechanical Properties of Ductile Iron Pipe Fitting

Standard	Nominal Diameter DN mm	Tensile Strength N /mm ²	Ticld Strength N /mm ²	Elongation %	Hardness HB	Minumum Test Working Pressure bar	Airtight Test bar
ISD2531 BSEN545	≤300 350-600 700-1200	≤420	≤300	≤5	≤250	25 16 10	6 6 6

Name and Symbols

Item No.	Name	Symbaols
1	Flanged Spigot	⊥
2	Collar	⊥
3	Flanged Socket	⊥
4	Flanged Socket	⊥
5	Socket Spigot	⊥
6	Blank Flange	⊥
7	Double Socket Bend	⊥
8	Socket Spigot Bend	⊥
9	Double Flanged Bend	⊥
10	Double Socket Taper	⊥
11	Double Flanged Taper	⊥
12	Double Sucket Taper	⊥
13	All Flanged Tee	⊥
14	All Sucket Tee	⊥
15	Socket And Spigot Tecs With Socket Branch	⊥
16	Socket And Spigot Tecs With Flanged Branch	⊥
17	Double Socket Level Invert Tees With Flanged Branch	⊥
18	Double Socket Level Invert Tees	⊥
19	All Socket Tee With 45° Angle Branch	⊥
20	All Flanged Tee With 45° Angle Branch	⊥
21	Double Flanged 90° Duckfoot Bend	⊥
22	Double Socket Off Set	⊥
23	All Flanged Cross	⊥
24	All Socket Cross	⊥
25	Cap	⊥
26	Plug	⊥
27	Double Flanged Pipe	⊥
28	Flanged Adaptor	⊥
29	Coupling	⊥
30	Flange	⊥

3. Ductile Iron Manhole Cover

The ductile iron manhole tops are largely used in the construction of city project inside or abroad the country. Such as the road, park, square. They also apply for drainage engineering, power supply project and telecom communication project.

A complete range of the innovative channel drainage systems cover all application types from domestic usage through to industrial, dock or airport usage.

Ductile Iron manhole covers are manufactured to BS EN124.

Our factory can design the drawing according to the customers' description to meet their need. Also they can produce according to the drawing which customer supplied. The following is that we supplied according to our customers' request

Appropriate class of manhole top or gully grating depends upon the place of installation (according to European standard en 124:1994)

1. Class A 15 (test load > 15 kN): A24 areas which can only be used by pedestrians and pedal cyclist;
2. Class B 125 (test load > 125 kN): footways, pedestrian areas and comparable areas, car parks or car parking decks;
3. Class C 250 (test load > 250 kN): for gully tops installed in the area of kerbside channels of roads which when measured from the kerb edge, extend a maximum of 0,5 m into the carriageway and a maximum of 0,2 m into the footway;
4. Class D 400 (test load > 400 kN): carriageways of roads (including pedestrian streets) hard shoulders and parking areas for all types of road vehicles.
5. Class E600: Areas imposing high wheel loads, e.g. docks, aircraft pavements.
6. Class F900: Areas imposing particularly high wheel loads, e.g. aircraft pavements.

1. Round manhole cover



specification(mm)	Specification(mm)	Specification(mm)
330×100	815×100	815×55

2. Square manhole cover



Specification(mm)	Specification(mm)	Specification(mm)
300×300×40	600×600×100	1000×1000×100
400×400×45	700×700×100	1100×1100×100
500×500×50	800×800×100	1200×1200×100
500×500×100	900×900×100	
550×550×100	905×905×100	

3. Rectangular manhole cover



specification (mm)	specification (mm)
600×800×150	600×800×100
600×800×60	

4. Double triangle manhole cover



Specification(mm)	specification(mm)	Specification(mm)
600×450×100	675×675×100	750×750×100
600×600×100	675×675×150	900×600×100
600×600×150	750×600×100	900×900×100