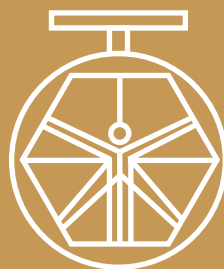


**GROUP 1100  
ACCESORIES  
MOD.1100/96**



**DAVINCI  
VALVES™**

**TECHNICAL  
DATA SHEET  
WATER Series**

**DUCTILE IRON PIPES**

**DAVINCI  
VALVES™**



**QUALITY  
ASSUREMENT**

**DAVINCI  
VALVES™**



**PRODUCT QT  
ASSUREMENT**

**DAVINCI  
VALVES™**



**COMPANY QT  
ASSUREMENT**

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11th Floor 1101, Jinjiang District,  
Chengdu, Sichuan CHINA

10F/Tower A, Billion Center,  
1 Wang Kwong Road, Kowloon Bay  
Kowloon HONG KONG

## DUCTILE IRON PIPES

Ref.1100

### INTRODUCTION TO PRODUCTS

SOLID products strictly meet the below standards:

ISO 2531 Ductile iron pipes, fittings and accessories for pressure pipelines.

BSEN545 Ductile iron pipes, fittings and accessories and their joints for water pipelines. Requirements and test methods.

BSEN598 Ductile iron pipes, fittings, accessories and their joints for sewage application-requirements and test methods.

ISO7186 Ductile iron pipes, fittings, accessories and their joints for the construction of drains and sewers outside buildings.

ISO4179 Ductile iron pipes for pressure and non pressure pipelines- Centrifugal cement mortar lining-general requirements.

ISO8179 Ductile iron pipes-External zinc coating.

ISO4633 Rubber Seals - joint rings for water supply, drainage and sewerage pipelines-specs for materials.

ISO 8180 Ductile iron pipes - Polyethylene Sleeve.

*All the components can be substituted with equivalent or higher-class materials.*

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## DUCTILE IRON PIPES Ref.1100

The T-type Joint Pipes (Push-on) produced by our company range from DN80 to DN2600mm are flexibly jointed with sockets and spigots; they are the first choice in urban water pipe networks due to their convenient installation, strong seismic performances, seal ability and corrosion resistance.



T-type Joint

The K-type Joint Pipes produced by our company ranging from DN1200 to DN2600mm are mechanically jointed, and they play an irreplaceable role in urban water pipe networks due to their firm installation and excellent seismic performances.



K-type Joint

The Self-Restrained Joint Pipes produced by our company ranging from DN80 to DN1600mm are jointed self-restrainedly and are used mainly for carrying water with pipelines projects that are submerged in water, harsh environment.



Self-Restrained Joint

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## DUCTILE IRON PIPES Ref.1100

### External Protection

Zinc with finishing layer of bituminous paint. Coating of epoxy, zinc-Aluminum alloy, or poly urethane etc, can be supplied also as per requirement.

### Internal Protection

Portland cement mortar lining, Sulphate Resistant cement mortar lining, High-Aluminum cement mortar lining, linings of epoxy powder, ceramic epoxy, poly urethane etc. can be supplied also as per requirement.



Inside cement mortar lining

Inside ceramic epoxy lining



Red epoxy painting inside

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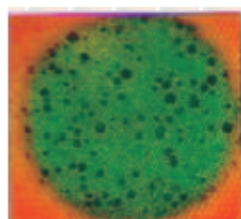


## DUCTILE IRON PIPES Ref.1100

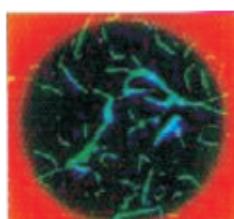
### Advantages of Ductile Iron Pipes

#### Better Mechanical Properties

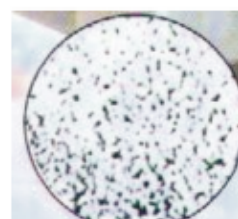
	Ductile iron pipe	Grey Cast Iron Pipe	Steel Pipe
Tensile strength(N/mm <sup>2</sup> )	≥420	150-260	≥400
Yield strength(N/mm <sup>2</sup> )	300	—	—
Bending strength(N/mm <sup>2</sup> )	Min.590	200-360	Min.400
Elongation(%)	DN80-1000≥10 DN1200-2200≥7	Negligible	Min.18
Module of Elasticity(N/mm <sup>2</sup> )	Approx. 16 x 10 <sup>4</sup>	Approx. 11 x 10 <sup>4</sup>	Approx. 16 x 10 <sup>4</sup>
Hardness (HB)	≤230	≤230	Approx.140



Ductile iron metallography



Grey iron metallography



Steel pipe metallography



Tensile test



Ring pressed test

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## DUCTILE IRON PIPES Ref.1100



Flat-pressing test



Twist test



Elongation test



Damage test

Document relevant to earthquakes shows that the damage rate per kilometer for ductile iron pipe mains is one quarter of that for grey iron and one thirtieth of some other materials of pipes.

Pipe material	Damage rate per km of main pipeline in earthquake
Ductile iron pipe	0.04
Grey cast pipe	0.17
PVC pipe	0.14
Steel pipe	1.24

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## DUCTILE IRON PIPES

Ref.1100

### High corrosion resistance

	Corrosion in running water at 90 days(G/cm <sup>2</sup> )	Corrosion in sea water (Mm/a)	Corrosion in 72h5% hydrochloric Acid Liquor (G/cm <sup>2</sup> )	100°C 33% Corrosion in Vitriol Liquor(mg/cm <sup>2</sup> .h)
Ductile iron pipe	0.009	0.066	0.0821	620
Grey Cast Iron Pipe	0.0103	0.073	0.6899	470
Steel Pipe	0.0396	0.13	≥10	250

### Chemical composition

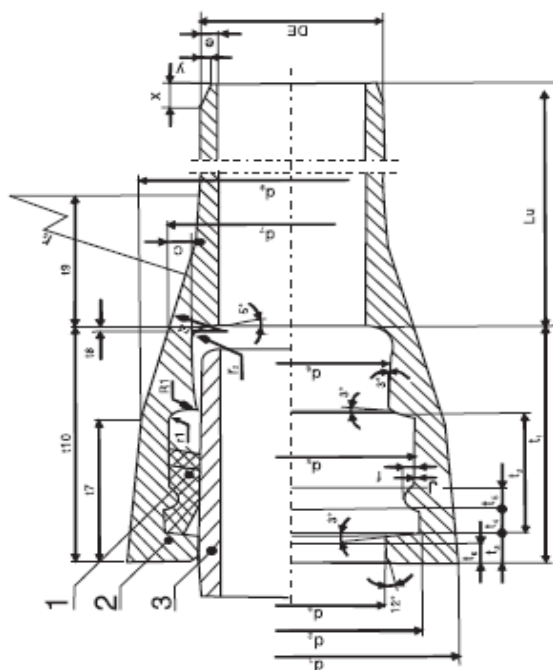
Chemical composition	Ductile Iron Pipe(%)	Steel Pipe(%)	Grey Iron Pipe(%)
C	3.5-4.0	0.1-0.2	3.2-3.8
Si	1.9-2.6	0.15-0.4	1.4-2.2
Mn	0.15-0.45	0.3-0.6	0.4-0.6
P	≤0.06	0.02-0.03	≤0.3
S	≤0.02	0.02-0.03	≤0.1
Mg	0.03-0.06		

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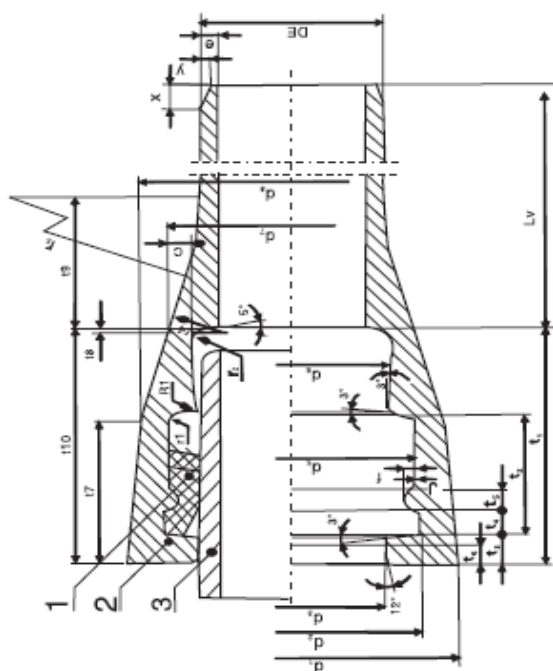
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## DUCTILE IRON PIPES



Type	1	2	3
T	Gasket	Socket	Spigot

DN1400~1600 T type joint



Type	1	2	3
T	Gasket	Socket	Spigot

DN80~1200  
T type joint

ISO2531,EN545,EN598,BS4772

## TYTON PUSH-ON SOCKET SIZES

## Tyton Push-on Socket Sizes

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## DUCTILE IRON PIPES

Ref.1100

### ISO2531,EN545,EN598,BS4772

#### TYTON PUSH-ON SOCKET SIZES

#### Tyton Push-on Socket Sizes

DN mm	DE mm	d1 mm	d2 mm	d3 mm	d5 mm	d6 mm	d7 mm	d8 mm	c mm	f mm	t1 mm
80	98 +1 -2.8	140	123	100.5 ±1	119.1 ±1	103.2	122	135	8	3.5	85
100	118 +1 -2.9	190	169	120.5 ±1	138.9 ±1	123.4	142	155.7	8.4	3.5	88
150	170 +1 -3.1	217	195	172.5	190.6	175.3	195.6	209	9.1	3.5	94
200	222 +1 -3.3	278	250	224.5 +1.5 -1	245.2 +1.5 -1	227.8	251	265	9.8	4	100
250	274 +1 -3.4	336	301.5	276.5	296.9	279.7	305	323	10.5	4	105
300	326 +1 -3.3	393	356.5	328.5 +1.8 -1	351.7 +1.8 -1	332.1	368.5	384	11.2	4.5	110
350	378 +1 -3.4	448	408	380.5	403.4	383.8	410.3	433	11.9	4.5	110
400	429 +1 -3.5	500	462	431.5 +2.1 -1	457.2 +2.1 -1	435.8	463	482.4	12.6	5	110
450	480 +1 -3.6	540	514	482.5 +2.2 -1	509 +2.2 -1	487	518.4	533	13.3	5	120
500	532 +1 -3.8	604	568	534.5 +2.4 -1	562.6 +2.4 -1	539.4	569.7	590.6	14	5.5	120
600	635 +1 -4	713	673.4	637.5 +2.7 -1	668 +2.7 -1	642.6	676.7	698.8	15.4	6	120
700	738 +1 -4.2	824	788	740.5 +3.5 -1	779.3 +3.5 -1	745.8	789	813	16.8	7	150
800	842 +1 -4.5	943	894	844.5 +3.8 -1	885.9 +3.8 -1	850	892.2	922.3	18.2	8	160
900	945 +1 -4.8	1052	1000	947.5 +4.1 -1	991.3 +4.1 -1	953.2	999.2	1030.5	19.6	9	175
1000	1048 +1 -5	1158	1105	1050.5 +4.4 -1	1097.1 +4.4 -1	1056.4	1106	1139	21	9	185
1100	1152 +1 -5.2	1267	1211	1155 +4.7 -1	1202.5 +4.7 -1	1160.2	1213.5	1247.3	22.4	10	200
1200	1255 +1 -5.5	1377	1317	1258 +5 -1	1308 +5 -1	1264	1321	1355.6	23.8	10	215
1400	1462 +1 -6	1610	1529	1465 +5.6 -1	1509 +5.6 -1	1471	1535	1584.5	26.6	-	239
1600	1668 +1 -6.5	1814	1740	1673 +6.2 -1	1717 +6.2 -1	1678	1748	-	-	-	262

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## DUCTILE IRON PIPES

Ref.1100

### ISO2531,EN545,EN598,BS4772

#### TYTON PUSH-ON SOCKET SIZES

#### Tyton Push-on Socket Sizes

DN mm	t2 mm	t3 mm	t4 mm	t5 mm	t6 mm	t7 mm	t8 mm	t9 mm	t10 mm	r1 mm	r2 mm	r4 mm	r5 mm	X	Y	Mass (kgs)
80	40	12	6	5	8	48	5	39	80	4	5	22	62	6	2	3.4
100	40	12	6	5	8	48	5	39	88	4	5	17	68	9	3	4.3
150	40	12	6	5	8	48	5	43	94	4	5	18.5	74	9	3	7.1
200	45	15	7	6	10	56	6.2	48	100	4	6	35	70	9	3	10.3
250	47	15	7	6	10	58	6.8	48	105	4	6	36	72	9	3	14.2
300	50	17	8.5	7	12	61	7.2	56	110	6	7	37	74	9	3	18.6
350	50	17	8.5	7	12	61	5.1	55	113	6	7	24.5	98	9	3	23.7
400	55	19	9.5	8	14	68	5.1	58	116	6	8	26	104	9	3	29.3
450	55	19	9.5	8	15	68	6	66	120	6	8	28	105	9	3	38.3
500	60	21	11	9	16	75	7	63	120	6	10	29	116	9	3	42.8
600	65	21	12	10	16	80	9.2	62	120	6	10	32	128	9	3	59.3
700	80	21	18	12	16	90	10.6	77	150	8	10	35	140	15	5	79.1
800	85	21	18	14	16	96.5	12.4	86.5	160	8	10	38	160	15	5	102.6
900	90	21	20	16	16	103	14.2	92.5	175	8	10	42	175	15	5	129.9
1000	95	22	20	16	16	110	16	103	185	8	10	45	200	15	5	161.3
1100	100	24	23	18	16	116	17	107.5	200	10	12	46.5	207.5	15	5	194.7
1200	105	25	23	18	17	122	17.8	112	215	10	12	48	215	15	5	237.7
1400	115	27	25	-	18	125	19	119	239	10	12	100	205	20	7	279.3
1600	125	30	27		20	125	19	165	262	10	10	380	210	21	7	375.4

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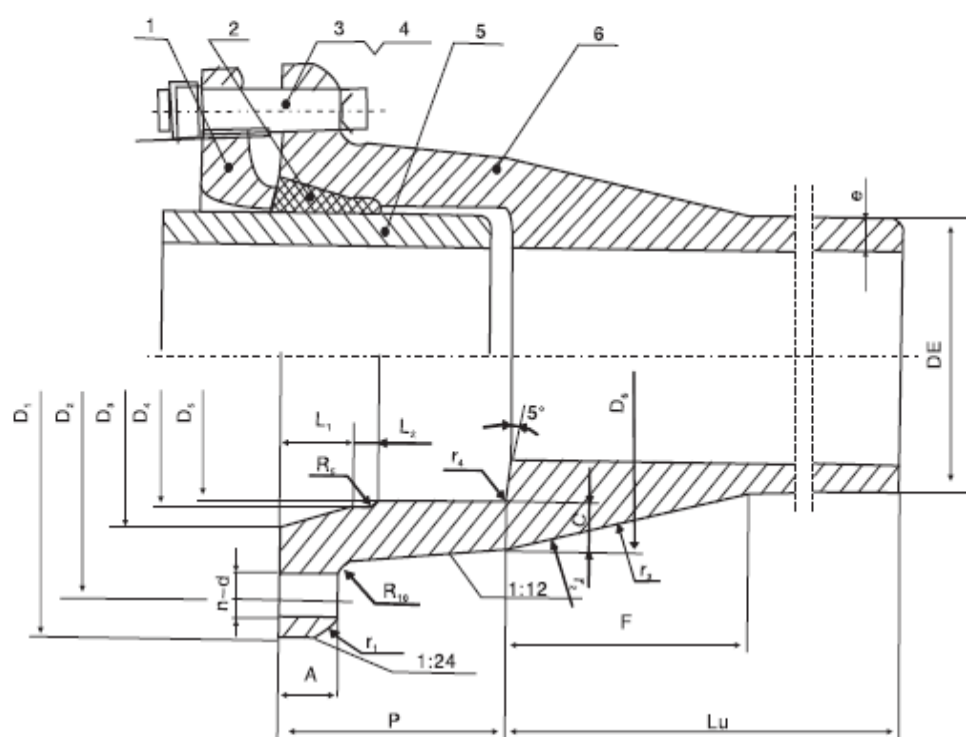
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## DUCTILE IRON PIPES Ref.1100

**ISO2531,EN545,EN598,BS4772**

**MECHANICAL JOINT SOCKET SIZES**

Mechanical Joint Socket Sizes



Type	1	2	3	4	5	6
K	Gland	Gasket	Bolt	Nut	Spigot	Socket

Mechanical type joint

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## DUCTILE IRON PIPES

Ref.1100

### ISO2531, EN545, EN598, BS4772

MECHANICAL JOINT SOCKET SIZES

#### Mechanical Joint Socket Sizes

DN mm	DE mm	D1 mm	D2 mm	D3 mm	D4 mm	D5 mm	D6 mm	A mm	c mm	P mm	F mm	r1 mm	r2 mm	r3 mm	L1 mm	L2 mm	d mm	n	Mass (kgs)
100	118	234	188	148	130	121	140	19	8.4	80	50	8	28	100	33	9	23	4	5.9
150	170	288	242	200	182	173	194	20	9.1	80	53	8	18	110	33	9	23	6	8.4
200	222	341	295	252	234	225	247	20	9.8	80	57	8	32	115	33	9	23	6	11
250	274	395	349	304	286	277	301	21	10.5	80	60	10	20	125	33	9	23	8	14.1
300	326	455	409	360	342	329	358	22	11.2	110	68	10	35	135	33	13	23	8	22.4
350	378	508	462	412	394	382	410	23	11.9	110	72	10	45	145	33	13	23	10	27.2
400	429	561	515	463	445	433	462	23	12.6	110	75	10	40	150	33	13	23	12	31.5
450	480	614	568	514	496	484	515	24	13.3	110	78	10	50	150	33	13	23	12	37.3
500	532	667	621	566	548	536	568	25	14	110	82	10	55	160	33	13	23	14	42.8
600	635	773	727	669	651	639	675	26	15.4	110	89	10	55	170	33	13	23	14	55.4
700	738	892	838	780	758	743	781	28	16.8	120	96	10	50	190	43	14	27	16	73.9
800	842	999	942	884	862	847	888	29	18.2	120	103	10	52	208	43	14	27	20	90.2
900	945	1123	1057	987	965	950	994	31	19.6	120	110	10	50	225	43	14	33	20	115.6
1000	1048	1231	1160	1090	1068	1054	1101	32	21	130	119	15	50	240	43	15	33	20	146.6
1100	1152	1338	1272	1194	1172	1158	1208	33	22	130	126	15	80	245	43	15	33	24	172.4
1200	1255	1444	1378	1297	1275	1261	1314	35	24	130	133	15	85	250	43	15	33	28	201
1400	1462	1657	1591	1504	1482	1469	1527	38	27	130	147	15	70	280	43	15	33	28	265.8
1500	1565	1766	1700	1608	1586	1573	1634	40	28	130	155	15	60	300	43	15	33	28	298.8
1600	1668	1874	1808	1720	1690	1678	1740	41	29	160	163	15	50	354	59	17	33	30	375.4
1800	1875	2089	2023	1927	1897	1883	1954	43	32	170	179	20	60	370	59	17	33	34	490.6
2000	2082	2305	2239	2134	2104	2091	2168	46	35	180	195	20	120	380	59	17	33	36	626.4
2200	2288	2519	2453	2340	2310	2298	2381	49	38	180	210	20	150	390	59	17	33	40	784.2
2400	2495	2734	2668	2547	2517	2505	2595	52	41	200	226	20	170	402	59	17	33	44	966.2
2600	2702	2949	2883	2754	2724	2713	2809	55	43	210	242	20	185	415	59	17	33	48	1173.7

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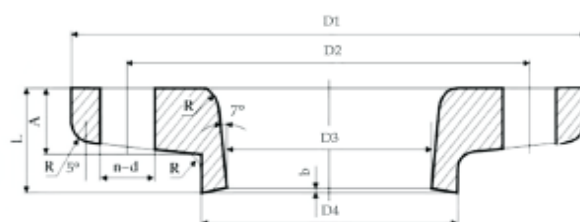
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## DUCTILE IRON PIPES

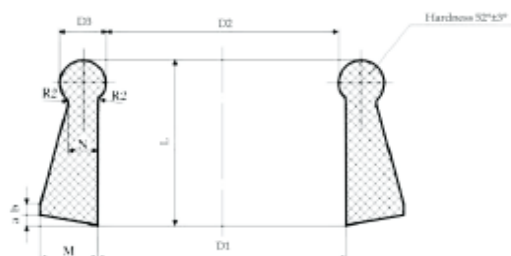
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### DIMENSION OF K-TYPE JOINT GLANDS



DN	D1	D2	D3	D4	A	L	R	b	d-n/(mm-n)	Weight /kg
1200	1444	1378	1262	1290	32	51	9	2.5	33-28	82.5
1400	1657	1591	1469	1497	34	53	9	3	33-28	104
1500	1766	1700	1573	1605	35	54	9	3	33-28	119
1600	1874	1808	1676	1711	36	55	9	3	33-30	123
1800	2089	2023	1883	1918	38	57	11	3	33-34	162
2000	2305	2239	2090	2125	40	59	11	3	33-36	196
2200	2519	2453	2296	2331	43	62	11	3	33-40	238
2400	2734	2668	2503	2538	46	65	11	3	33-44	318
2600	2949	2883	2710	2745	49	68	11	3	33-48	378

### DIMENSION OF K-TYPE JOINT GASKETS



Gasket of K-type joint pipe

DN	D1	D2	D3	L	M	N	a	b
1200	1230	1223	20	62	21.5	13	4	5
1400	1430	1423	20	62	21.5	13	4	5
1500	1532	1525	20	62	21.5	13	4	5
1600	1635	1628	23	80	27	15	4	5
1800	1833	1825	23	80	27	15	4	5
2000	2035	2027	23	80	27	15	4	5
2200	2235	2227	23	80	27	15	4	5
2400	2440	2432	23	80	27	15	4	5
2600	2645	2637	23	80	27	15	4	5

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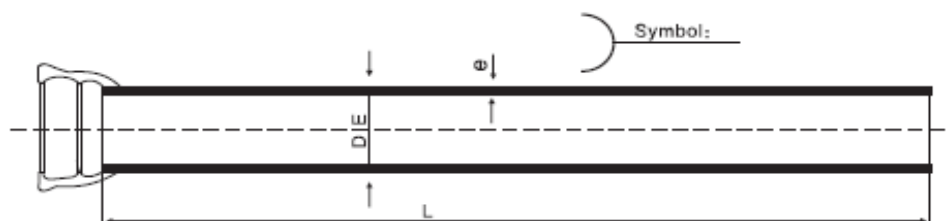
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18 Dongyu Street, Square One 11th Floor 1101. Jinjiang District, Chengdu, Sichuan Province, China



## DUCTILE IRON PIPES Ref.1100

### Ductile Iron Pipes with Tyton joint ISO2531-1998 Class K9



Nominal size DN	Barrel			Socket mass (approximate)	Total mass(approximate)for one working length L of								
	DE	e	Mass per- metre (approximate)		2m	3m	4m	5m	5.5m	6m	7m	8m	9m
40	56	6	6.6	1.7	15	21.5	28	34.5	38	41.5	—	—	—
50	66	6	8	2.1	18	26	34	42	46	50	—	—	—
60	77	6	9.4	2.5	21.5	30.5	40	49.5	54	59	—	—	—
65	82	6	10.1	2.7	23	33	43	53	58.5	63.5	—	—	—
80	98	6	12.2	3.4	—	—	52	64.5	70.5	76.5	—	—	—
100	118	6.1	15.1	4.3	—	—	64.5	80	87.5	95	—	—	—
125	144	6.2	18.9	5.7	—	—	81.5	100	110	119	—	—	—
150	170	6.3	22.8	7.1	—	—	98.5	121	133	144	—	—	—
200	222	6.4	30.6	10.3	—	—	133	163	179	194	—	—	—
250	274	6.8	40.2	14.2	—	—	175	215	235	255	—	—	—
300	326	7.2	50.8	18.6	—	—	222	273	298	323	—	—	—
350	378	7.7	63.2	23.7	—	—	277	340	371	403	—	—	—
400	429	8.1	75.5	29.3	—	—	331	407	445	482	—	—	—
500	532	9	104.3	42.8	—	—	460	564	616	669	—	—	—
600	635	9.9	137.3	59.3	—	—	608	745	813	882	1019	1156	1293
700	738	10.8	173.9	79.1	—	—	775	949	1036	1123	1298	1470	1644
800	842	11.7	215.2	102.6	—	—	963	1179	1286	1394	1609	1824	2039
900	945	12.6	260.2	129.9	—	—	1171	1431	1561	1691	1951	2212	2472
1000	1048	13.5	309.3	161.3	—	—	1399	1708	1862	2017	2326	2636	2945
1200	1255	15.3	420.1	237.7	—	—	1918	2338	2548	2758	3178	3599	4019
1400	1462	17.1	547.2	279.3	—	—	2468	3015	3289	3563	4110	4657	5204
1600	1668	18.9	690.3	375.4	—	—	3137	3827	4172	4517	5208	5898	6588
1800	1875	20.7	850.1	480.6	—	—	3891	4741	5166	5591	6441	7291	8142
2000	2082	22.5	1026.3	626.4	—	—	4732	5758	6271	6784	7811	8837	9863
2200	2288	24.3	1218.3	784.2	—	—	5657	6876	7485	8094	9312	10531	11749
2400	2495	26.1	1427.2	966.2	—	—	6675	8102	8816	9529	10957	12384	13811
2600	2702	27.9	1652.4	1173.7	—	—	7783	9436	10262	11088	12741	14393	16045

The nominal iron wall thickness of pipe is in accordance with ISO2531/EN 545 and calculated as a function of the nominal size, DN, by the following formula, with a minimum of 6 mm for pipes.

$$e = K(0.5 + 0.001 \text{ DN})$$

Where :

e is the nominal wall thickness, in millimeters;

DN is the nominal size in millimeters;

K is a coefficient used for thickness class designation. It is selected from a series of whole numbers :

.....8, 9, 10, 11, 12.....

*All the components can be substituted with equivalent or higher-class materials.*

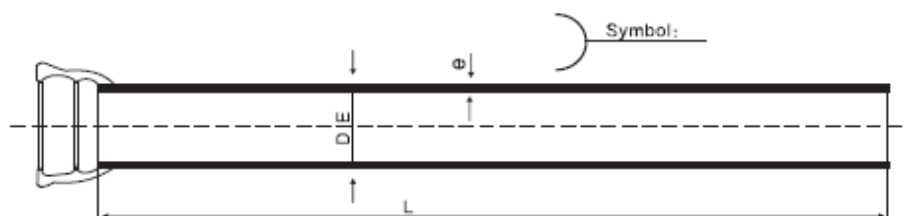
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## DUCTILE IRON PIPES

Ref.1100

### Ductile Iron Pipes with Tyton joint ISO2531-2009



Wall Thickness Of Preferred Pressure Class And Other Pressure Classes

DN(mm)	DN(mm)	Nominal Thickness (mm)						
		C20	C25	C30	C40	C50	C64	C100
80	98				4.4	4.4	4	4.8
100	118				4.4	4.4	4.4	5.5
125	144				4.5	4.5	4.8	6.5
150	170				4.5	4.5	5.3	7.4
200	222				4.7	5.4	6.5	9.2
250	274				5.5	6.4	7.8	11.1
300	326			5.1	6.2	7.4	8.9	12.9
350	378		5.1	6.3	7.1	8.4	10.2	14.8
400	429		5.5	6.5	7.8	9.3	11.3	16.5
450	480		6.1	6.9	8.6	10.3	12.6	18.4
500	532		6.5	7.5	9.3	11.2	13.7	20.2
600	635		7.6	8.7	10.9	13.1	16.1	23.8
700	738	7.3	8.6	9.9	12.4	15	18.5	27.5
800	842	8.1	9.6	11.1	14	16.9	21	
900	945	8.9	10.6	12.3	15.5	18.8	23.4	
1000	1048	9.8	11.6	13.4	17.1	20.7		
1100	1152	10.6	12.6	14.7	18.7	22.7		
1200	1255	11.4	13.6	15.8	20.2			
1400	1462	13.1	15.7	18.2				
1500	1565	13.9	16.7	19.4				
1600	1668	14.8	17.7	20.6				
1800	1875	16.4	19.7	23				
2000	2082	18.1	21.8	25.4				
2200	2288	19.8	23.8					
2400	2495	21.4	25.8					
2600	2702	23.1	27.9					

Minimal Allowable diameter of lower pressure class pipes are C20 DN700;C25 DN350;C30 DN300

Gray parts mean preferred pressure class

Tolerance of wall thickness-(1.3+0.001DN)

All the components can be substituted with equivalent or higher-class materials.

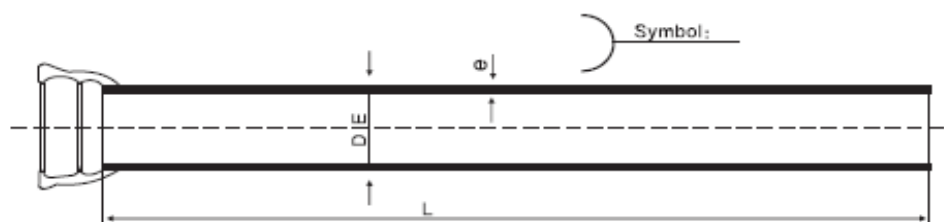
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## DUCTILE IRON PIPES

Ref.1100

### Ductile Iron Pipes with Tyton joint ISO2531-2009



Weight Of Preferred Pressure Class And Other Pressure Classes

DN(mm)	DN(mm)	Standard Weight (Kg)						
		C20	C25	C30	C40	C50	C64	C100
80	98				58	58	58	58
100	118				71	71	71	87
125	144				89	89	95	125
150	170				106	106	123	167
200	222				146	166	196	271
250	274				210	242	290	402
300	326			236	282	332	394	555
350	378		276	335	374	436	522	738
400	429		339	394	466	548	657	934
450	480		423	472	577	681	821	1167
500	532		479	566	689	818	986	1417
600	635		693	783	963	1142	1383	1992
700	738	788	932	1037	1275	1520	1848	2676
800	842	1000	1165	1328	1643	1956	2394	
900	945	1237	1446	1654	2045	2444	2996	
1000	1048	1513	1759	2004	2504	2987		
1100	1152	1803	2103	2416	3011	3601		
1200	1255	2122	2481	2840	3552			
1400	1462	2908	3403	3877				
1500	1565	3340	3911	4459				
1600	1668	3778	4408	5036				
1800	1875	4753	5559	6363				
2000K	2082	5591	6595	7568				
2200K	2288	6752	7945					
2400K	2495	8149	9580					
2600K	2702	9520	11209					

Weight of T-Type Joint 6m length pipes according to ISO2531-2009

Gray parts mean preferred wall thickness class

All the components can be substituted with equivalent or higher-class materials.

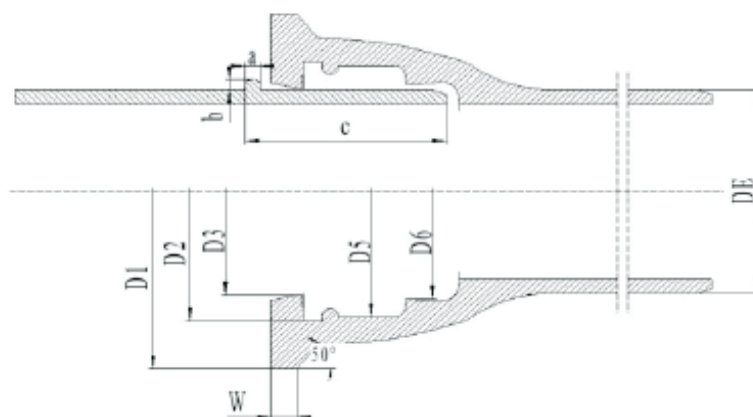
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## DUCTILE IRON PIPES

Ref.1100

### Ductile Iron Pipes with Self-restrained joint Class K9



	K9 Weight	D1	W	Spigot size				Socket size			
				D4	a	b	c	D2	D3	D5	D6
DN80	78	167±1	13±1	98 <sup>+1.27</sup> <sub>-1</sub>	5 <sup>+1</sup> <sub>0</sub>	4 <sup>+1</sup> <sub>0</sub>	85 <sup>+1</sup> <sub>0</sub>	123±1	100.5 <sup>+1.4</sup> <sub>-1</sub>	119.1 <sup>+1.4</sup> <sub>-1</sub>	103.2±2
DN100	96	188±1	13±1	118 <sup>+1.28</sup> <sub>-1</sub>	5 <sup>+1</sup> <sub>0</sub>	4 <sup>+1</sup> <sub>0</sub>	88 <sup>+1</sup> <sub>0</sub>	143±1	120.5 <sup>+1.4</sup> <sub>-1</sub>	138.9 <sup>+1.4</sup> <sub>-1</sub>	123.4±2
DN150	146	242±1	13±1	170 <sup>+1.29</sup> <sub>-1</sub>	5 <sup>+1</sup> <sub>0</sub>	4 <sup>+1</sup> <sub>0</sub>	94 <sup>+1</sup> <sub>0</sub>	192±1	172.5 <sup>+1.4</sup> <sub>-1</sub>	190.6 <sup>+1.4</sup> <sub>-1</sub>	175.3±2
DN200	196	294±1	13±1	222 <sup>+1.3</sup> <sub>-1</sub>	5 <sup>+1</sup> <sub>0</sub>	4 <sup>+1</sup> <sub>0</sub>	105 <sup>+1</sup> <sub>0</sub>	250 <sup>+1.5</sup> <sub>-1</sub>	224.5 <sup>+1.5</sup> <sub>-1</sub>	245.2 <sup>+1.5</sup> <sub>-1</sub>	227.8±2
DN250	258	351±1	13±1	274 <sup>+1.31</sup> <sub>-1</sub>	5 <sup>+1</sup> <sub>0</sub>	4 <sup>+1</sup> <sub>0</sub>	105 <sup>+1</sup> <sub>0</sub>	301.5 <sup>+1.5</sup> <sub>-1</sub>	276.5 <sup>+1.5</sup> <sub>-1</sub>	296.9 <sup>+1.5</sup> <sub>-1</sub>	279.7±2
DN300	327	408.2 <sup>+1.3</sup> <sub>-1.2</sub>	13±1	326 <sup>+1.33</sup> <sub>-1</sub>	5 <sup>+1</sup> <sub>0</sub>	4 <sup>+1</sup> <sub>0</sub>	110 <sup>+1</sup> <sub>0</sub>	356.5 <sup>+1.8</sup> <sub>-1</sub>	328.5 <sup>+1.8</sup> <sub>-1</sub>	351.7 <sup>+1.8</sup> <sub>-1</sub>	332.1±2
DN350	408	464.2 <sup>+1.3</sup> <sub>-1.2</sub>	13±1	378 <sup>+1.34</sup> <sub>-1</sub>	5 <sup>+1</sup> <sub>0</sub>	4 <sup>+1</sup> <sub>0</sub>	110 <sup>+1</sup> <sub>0</sub>	408 <sup>+1.8</sup> <sub>-1</sub>	380.5 <sup>+1.8</sup> <sub>-1</sub>	403.4 <sup>+1.8</sup> <sub>-1</sub>	383.8±2
DN400	488	516.2 <sup>+1.3</sup> <sub>-1.2</sub>	13±1	429 <sup>+1.35</sup> <sub>-1</sub>	5 <sup>+1</sup> <sub>0</sub>	4 <sup>+1</sup> <sub>0</sub>	110 <sup>+1</sup> <sub>0</sub>	462 <sup>+2.1</sup> <sub>-1</sub>	431.5 <sup>+2.1</sup> <sub>-1</sub>	457.2 <sup>+2.1</sup> <sub>-1</sub>	435.8±2.5
DN450	582	576.5 <sup>+1.3</sup> <sub>-1.2</sub>	13±1	480 <sup>+1.36</sup> <sub>-1</sub>	7 <sup>+1</sup> <sub>0</sub>	7 <sup>+1</sup> <sub>0</sub>	120 <sup>+1</sup> <sub>0</sub>	514 <sup>+2.2</sup> <sub>-1</sub>	482.5 <sup>+2.2</sup> <sub>-1</sub>	509 <sup>+2.2</sup> <sub>-1</sub>	487±2.5
DN500	676	629.5 <sup>+1.3</sup> <sub>-1.2</sub>	19±1	532 <sup>+1.38</sup> <sub>-1</sub>	7 <sup>+1</sup> <sub>0</sub>	7 <sup>+1</sup> <sub>0</sub>	120 <sup>+1</sup> <sub>0</sub>	568 <sup>+2.4</sup> <sub>-1</sub>	534.5 <sup>+2.4</sup> <sub>-1</sub>	562.6 <sup>+2.4</sup> <sub>-1</sub>	539.4±3
DN600	888	738.5±1	19±1	635 <sup>+1.4</sup> <sub>-1</sub>	7 <sup>+1</sup> <sub>0</sub>	7 <sup>+1</sup> <sub>0</sub>	120 <sup>+1</sup> <sub>0</sub>	673.4 <sup>+2.7</sup> <sub>-1</sub>	637.5 <sup>+2.7</sup> <sub>-1</sub>	668 <sup>+2.7</sup> <sub>-1</sub>	642.6±3
DN700	1132	863±2	19±1	738 <sup>+1.42</sup> <sub>-1</sub>	7 <sup>+1</sup> <sub>0</sub>	7 <sup>+1</sup> <sub>0</sub>	150 <sup>+1</sup> <sub>0</sub>	788 <sup>+3.5</sup> <sub>-1</sub>	740.5 <sup>+3.5</sup> <sub>-1</sub>	779.3 <sup>+3.5</sup> <sub>-1</sub>	745.8±3.5
DN800	1416	970±2	19±1	842 <sup>+1.45</sup> <sub>-1</sub>	7 <sup>+1</sup> <sub>0</sub>	7 <sup>+1</sup> <sub>0</sub>	160 <sup>+1</sup> <sub>0</sub>	894 <sup>+3.8</sup> <sub>-1</sub>	844.5 <sup>+3.8</sup> <sub>-1</sub>	885.9 <sup>+3.8</sup> <sub>-1</sub>	850±3.8
DN900	1722	1080±2	19±1	945 <sup>+1.48</sup> <sub>-1</sub>	8 <sup>+1</sup> <sub>0</sub>	8 <sup>+1</sup> <sub>0</sub>	175 <sup>+1</sup> <sub>0</sub>	1000 <sup>+4.1</sup> <sub>-1</sub>	947.5 <sup>+4.1</sup> <sub>-1</sub>	991.3 <sup>+4.1</sup> <sub>-1</sub>	953.2±4.1
DN1000	2050	1189±2	19±1	1048 <sup>+1.5</sup> <sub>-1</sub>	8 <sup>+1</sup> <sub>0</sub>	8 <sup>+1</sup> <sub>0</sub>	185 <sup>+1</sup> <sub>0</sub>	1105 <sup>+4.4</sup> <sub>-1</sub>	1050.5 <sup>+4.4</sup> <sub>-1</sub>	1097.1 <sup>+4.4</sup> <sub>-1</sub>	1056.4±4.4
DN1100	2415	1298±2	19±1	1152 <sup>+1.52</sup> <sub>-1</sub>	8 <sup>+1</sup> <sub>0</sub>	8 <sup>+1</sup> <sub>0</sub>	200 <sup>+1</sup> <sub>0</sub>	1211 <sup>+4.7</sup> <sub>-1</sub>	1155 <sup>+4.7</sup> <sub>-1</sub>	1202.5 <sup>+4.7</sup> <sub>-1</sub>	1160.2±4.7
DN1200	2806	1408±2	19±1	1255 <sup>+1.55</sup> <sub>-1</sub>	9 <sup>+1</sup> <sub>0</sub>	9 <sup>+1</sup> <sub>0</sub>	215 <sup>+1</sup> <sub>0</sub>	1317 <sup>+5</sup> <sub>-1</sub>	1258 <sup>+5</sup> <sub>-1</sub>	1308 <sup>+5</sup> <sub>-1</sub>	1264±5
DN1400	3741	1646±2	24±1	1462 <sup>+1.6</sup> <sub>-1</sub>	9 <sup>+1</sup> <sub>0</sub>	9 <sup>+1</sup> <sub>0</sub>	239 <sup>+2</sup> <sub>0</sub>	1529 <sup>+5.6</sup> <sub>-1</sub>	1465 <sup>+5.6</sup> <sub>-1</sub>	1509 <sup>+5.6</sup> <sub>-1</sub>	1471±5.6
DN1500	4272	1735±2	26±1	1565 <sup>+1.6</sup> <sub>-1</sub>	9 <sup>+1</sup> <sub>0</sub>	9 <sup>+1</sup> <sub>0</sub>	240 <sup>+2</sup> <sub>0</sub>	1635 <sup>+6</sup> <sub>-1</sub>	1568.5 <sup>+6</sup> <sub>-1</sub>	1615 <sup>+6</sup> <sub>-1</sub>	1575±6
DN1600	4788	1844±2	30±1	1668 <sup>+1.8</sup> <sub>-1</sub>	10 <sup>+1</sup> <sub>0</sub>	10 <sup>+1</sup> <sub>0</sub>	240 <sup>+2</sup> <sub>0</sub>	1743 <sup>+6</sup> <sub>-1</sub>	1672 <sup>+6</sup> <sub>-1</sub>	1719 <sup>+6</sup> <sub>-1</sub>	1682±6
DN1800	5925	2062±2	40±1	1875 <sup>+1.7</sup> <sub>-1</sub>	10 <sup>+1</sup> <sub>0</sub>	10 <sup>+1</sup> <sub>0</sub>	300 <sup>+2</sup> <sub>0</sub>	1954 <sup>+6.8</sup> <sub>-1</sub>	1880 <sup>+6.8</sup> <sub>-1</sub>	1926 <sup>+6.8</sup> <sub>-1</sub>	1885±6.8

All the components can be substituted with equivalent or higher-class materials.

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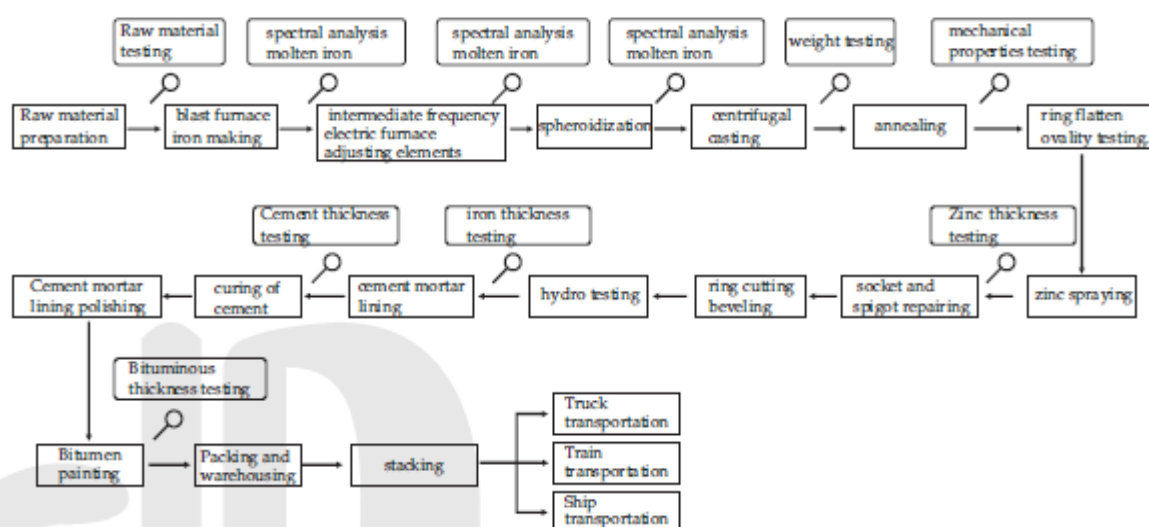
## DUCTILE IRON PIPES

Ref.1100

DN(mm)	Minimum work test pressure (Bar)		
	ISO2531-1998		ISO2531-2009
	K < 9	K ≥ 9	Preferred pressure Class
≤ 300	$0.5(K+1)^2$	50	40
350-600	$0.5K^2$	40	30
700-1000	$0.5(K-1)^2$	32	25
1200-2000	$0.5(K-2)^2$	25	25
2200-2600	$0.5(K-3)^2$	18	25

## Production process flow of ductile iron pipes and Advance Quality Testing System

### Process flow diagram



All the components can be substituted with equivalent or higher-class materials.

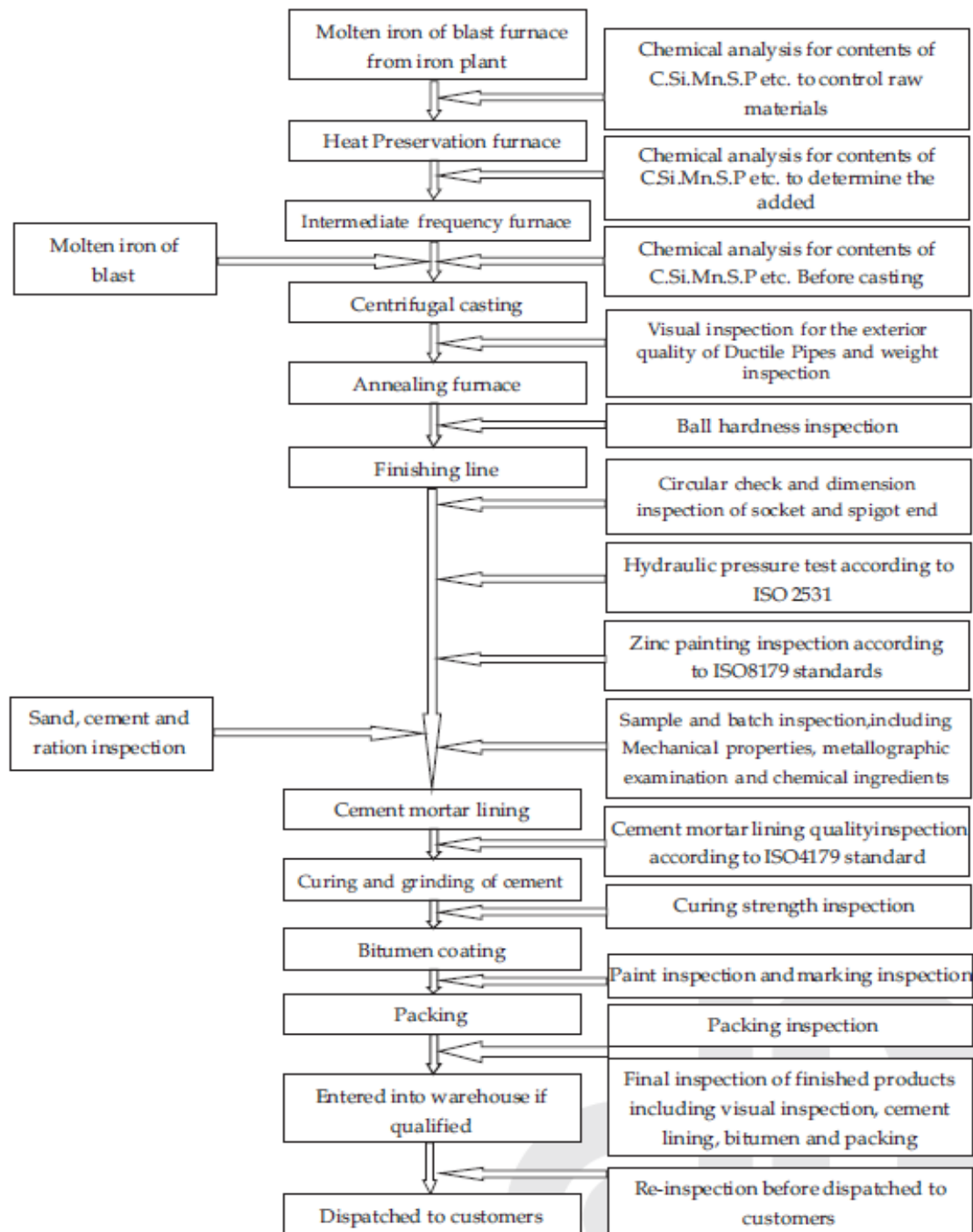
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## DUCTILE IRON PIPES Ref.1100

### QUALITY CONTROL SYSTEM



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## DUCTILE IRON PIPES

Ref.1100

### TEST AND INSPECTION PLAN (QAP)

Item No.	Description	Objective	Quality Control Processing (By Mill)
1	Raw material used for Ductile pipes	Property or chemical composition for main elements	Review records as per ISO 9001 quality operation file
2	Induction furnace and treated metal	Molten metal temperature	In manufacturing as per ISO 9001 quality operation file
		Chemical composition of molten metal	Analysis the samples per furnace as per the standards of manufacturer's
		Spheroidizing & Nodularity	Analysis the samples per furnace as per the standards of manufacturer's
3	Casting	Check for surface defect finish & integrity	Visual check and weight check
4	DI pipes	Heat treatment (annealing)	Check Micro-structure of samples as per the samples as per ISO standard
		Mechanical test	Check Micro-structure of samples as per the samples as per ISO standard
		Hydrostatic test	100% pressure test
		Size and dimension	Checking dimension of length and joint, OD, wall thickness, appearance
5	Zinc spraying	Zinc coating	Checking the sample pipes' zinc spraying mass
6	Lining and coating	Cement lining	100% surface defects visual check, check thickness of the lining randomly as per ISO standard
		Bitumen coating	100% surface defects visual check, check randomly for coating thickness
7	Making and packing	Identification	100% visual check

All the tests and inspections are according to ISO 2531 and ISO 9001. Other standards will be followed accordingly if requested.

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18 Dongyu Street, Square One 11th Floor 1101. Jinjiang District, Chengdu, Sichuan Province, China

## DUCTILE IRON PIPES Ref.1100

### Lifting, Transportation of ductile iron pipes

#### Pipe Lifting

##### 1.End lifting

Use appropriately shaped hooks, coated with a polyamide type protection.

##### 2.Barrel lifting

Use wide flat slings maintained sufficiently widely apart to prevent accidental slippage.  
Prohibit wire ropes which may damage the coating.

A single sling may be used on site. In that case, lift the pipe at its centre of gravity, with the sling gripping the pipe to prevent slippage.

##### 3.Bundle lifting

DN80 to 300 bundles are unloaded with flat textile slings.

Take precaution of handling with steel cable, hoisting belts and specialized rigging avoiding from pipe's rock. While using steel cable, single cable is not admitted, for the purpose of protecting outer anti-corrosion layer, steel cable should be packed by rubber or other similar material. While using hook, it also should be covered with rubber or other similar material for protecting cement lining layer. Especially for pipe with relative large diameter, hook should be mounted a gasket with same shape as internal diameter of pipes while handling. It is not available fixing hook on the steel belts or socket side and spigot side of pipe while handling pipes in bundle.

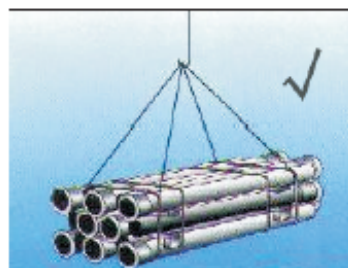
*All the components can be substituted with equivalent or higher-class materials.*

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### Transportation

Vehicles must be suitable for transporting, loading and unloading ductile iron pipes. The following basic rules must be observed:

1. Prevent any contact between the pipeline components and metal surfaces (to avoid coating damage).
2. Prevent any direct pipe connecting with the bottom of the trailer (keep the pipes horizontal with two parallel rows of good quality timbers fastened to the floor).
3. Facilitate pipe loading and unloading under safe conditions (use textile slings or protected hooks; do not use wire ropes).
4. Ensure the load is in good order during transport.
5. Use vehicles and trailers equipped with side supports to stabilize the load (adequately sized stanchions on either side of the floor).
6. Secure the load with textile straps and a tautening device.

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### Installation guide

1. Using a wire brush and a rag, carefully clear the inside of the socket particularly the gasket recesses. In particular, remove any deposits of earth, sand, etc. also clean the spigot of the pipe to be jointed and the gasket itself. Check the presence of the chamfer, as well as the absence of any damage on the spigot of the pipe. (See picture 1 & 2)
2. Check the condition of the gasket and insert it into its recess, with the lips pointing towards the bottom of the socket. Make sure that the gasket is correctly compressed all the way round. (See picture 3)
3. Lubricate interface of gasket and spigot end. Lubrication could be soap water or nonpoisonous alkaline lubrication. (See picture 4 & 5)
4. Insert spigot into socket till touch gasket at the same axle. It must be straightened properly to make the central axle of pipes or fittings coincide. While connecting pipe, different pipe adopts different tools. Insert pipe carefully and continuously, if existing larger resistance force, pipe connection should be stopped immediately then draw out the pipe and check the position of rubber gasket and socket and spigot end. After removing troubles, insert again. The insert depth required should be between two white lines. (See picture 6)
5. Check that the gasket is correctly in position by inserting the end of a metal ruler through the annular spigot and socket gap until it touches the gasket. The ruler must penetrate to the same depth around the whole circumference.
6. After finish assembling joint, make sure that the curvature after assemble does not exceed the permissible angular deflection of particular joint. See the table.

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DN(mm)	Permissible angular deflection while laying
80-150	5° 00'
200-300	4° 00'
350-600	3° 00'
700-800	2° 00'
900-1800	1° 30'



Picture 1



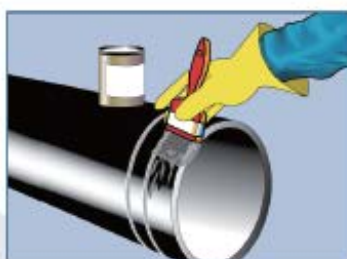
Picture 2



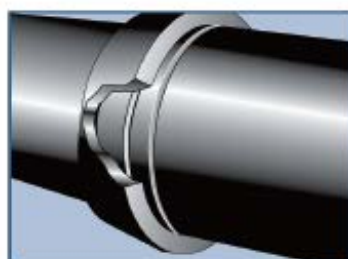
Picture 3



Picture 4



Picture 5



Picture 6

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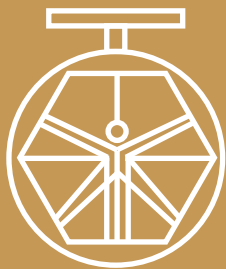


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