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# COMPANY PROFILE

QINGDAO JUDBERD MACHINERY CO.,LTD HAVE 200 WORKERS AND INCLUDE THE MANAGEMENT

STAFF OF 15 PEOPLE, TECHNICAL PERSON MORE THAN 20 AND 35 EMPLOYEES WITH JUNIOR COLLEGE ABOVE DEGREES

JUDBERD DUCTILE IRON PIPE FITTINGS ARE MANUFACTURED USING ADVANCED EQUIPMENT IN A OUTSTANDING QUALITY LEVEL USING THE FINEST MATERIALS AVAILABLE. DESIGNED BY A FIRST CLASS TEAM OF DUCTILE IRON PIPE FITTINGS SPECIALISTS WITH OVER 20 YEARS EXPERIENCE IN THE WATER INDUSTRY.MANUFACTURING FACILITIES ARE CERTIFIED TO ISO9001-2000 AND ARE COMPANY OWNED AND OPERATED

PRIMARY MATERIALS

DUCTILE IRON

DUCTILE IRON PIPE FITTINGS ARE MANUFACTURED FROM DUCTILE IRON CONFORMING TO ASTM A536

GR.65-45-12/BS EN 1563 ENGJS500-7/DINGGG40/50 OR GREATER

STRENGTH AND IMPROVED RESISTANCE TO INTERNAL PRESSURES.

GASKET

EPDM ACCORDING TO EN683 ,WRAS APPROVED IS ALSO AVAILABLE

COATING

FIRST CLASS EPOXY POWDER,WRAS APPROVED POWDER IS ALSO AVAILABLE

TIE RODS



GALVANIZED/DACROMET/HOT DIP GALVANIZATION CARBON STEEL GRADE 4.8/6.8/8.8

STAINLESS STEEL AISI 304

STAINLESS STEEL AISI 316

TEFLON COATED STAINLESS STEEL

INSTALLATION AND OPERATION

FLANGES CONFORM FULLY TO ANSIB16.1 CLASS 125/ANSI B16.2 CLASS250 OR EN1092-2 PN10/

PN16/PN25,MECHANICAL JOINT ENDS CONFORM TO AWWA C111/ANSI A21.11

OTHER FLANGE TYPES ARE AVAILABLE FOR SPECIFIC MARKET REQUIREMENT.

WE ARE HONORED TO BE CERTIFIED BY WRAS,DVGW,NSF,CE ETC,AND WE OFFER

OUTSTANDING QUALITY PRODUCTS WHICH IS GUARANTEED BY AUTO PRODUCTION

LINE ,PROFESSIONAL AND EXPERIENCED WORKERS,ISO9001 CERTIFIED QUALITY CONTROL

SYSTEM AND STRICTLY MANAGEMENT SYSTEM.WE INVITE YOU TO GET TO KNOW US

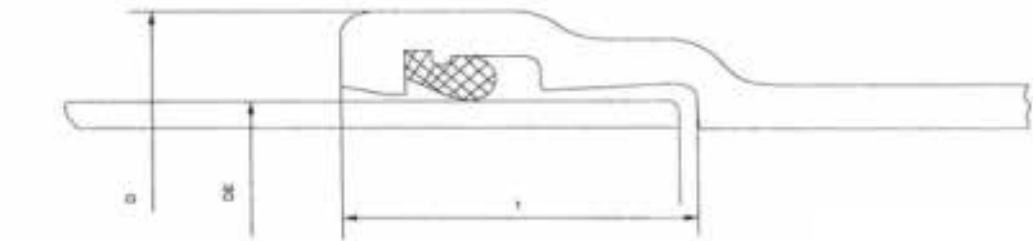
BETTER.AND WELCOME YOU COME TO VISIT US.



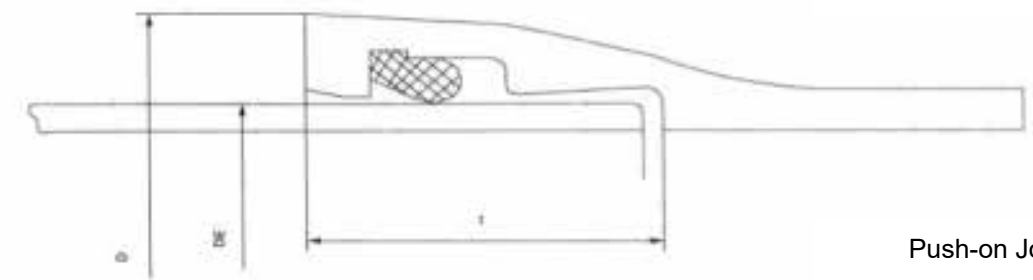


## Ductile Iron Pipe with Tyton Joint

(K9 class with 6m effective length)



DN80-DN1400



Push-on Joint Type

# DUCTILE IRON PIPE FITTINGS

Nominal Diameter DN(mm)	DE	D	t	e	Cement lining thickness	kg/m	Socket(kg)	Total weight(kg)
80	98	142	84	6.0	3.5	12.2	3.4	77
100	118	163	88	6.1	3.5	15.1	4.3	95
125	144	190	90	6.2	3.5	18.9	5.7	119
150	170	217	94	6.3	3.5	22.8	7.1	144
200	222	278	100	6.4	3.5	30.6	10.3	194
250	274	336	105	6.8	3.5	40.2	14.2	255
300	326	393	110	7.2	3.5	50.8	18.9	323
350	378	448	110	7.7	5.0	63.2	23.7	403
400	429	500	110	8.1	5.0	75.5	29.5	482
450	480	540	120	8.6	5.0	89.7	38.3	577
500	532	604	120	9.0	5.0	104.3	42.8	669
600	635	713	120	9.9	5.0	137.3	59.3	883
700	738	824	150	10.8	6.0	173.9	79.1	1123
800	842	943	160	11.7	6.0	215.2	102.6	1394
900	945	1052	175	12.6	6.0	260.2	129.0	1691
1000	1048	1158	185	13.5	6.0	309.3	161.3	2017
1100	1152	1267	200	14.5	6.0	362.8	194.7	2372
1200	1255	1377	215	15.3	6.0	420.1	237.7	2758
1400	1462	1632	239	17.1	9.0	547.2	385.3	3669
1500	1565	1710	247	18.0	9.0	616.7	474.7	4175
1600	1668	1850	265	18.9	9.0	690.3	526.0	4668
1800	1875	2049	275	20.7	9.0	851.1	490.6	5591
2000	2082	2231	285	22.5	9.0	1026.3	626.4	6784

## Mechanical Properties of Ductile Iron Pipes and Fittings

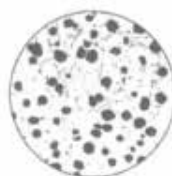
	Ductile Iron Pipe		Ductile Iron Fitting
	DN80--1000	DN1100--2600	
Tensile Strength	Min.420 N/mm <sup>2</sup>		Min.420 N/mm <sup>2</sup>
Elongation	Min.10%	Min.7%	Min.5%
Yield Strength	Min.300 N/mm <sup>2</sup>		Min.300 N/mm <sup>2</sup>
Hardness	MAX.230HB		MAX.250HB
Density	7.05ton/m <sup>3</sup>		7.05ton/m <sup>3</sup>

## Hydrostatic Testing Standard

Nominal Diameter	Test pressure(Bar) $\geq 15$ second		
	Ductile Iron Pipe(k9)	Ductile Iron Pipe(C class)	Ductile Iron Fitting
80-300	50	C40	25
350-600	40	C30	16
700-1000	32	C25	10
1100-1200	25	-	10
1400-1600	25	-	10
1800-2000	25	-	10
2100-2600	18	-	10

## Internal and External Protection

	Ductile Iron Pipe	Ductile Iron Fitting
Internal	Portland Cement Mortar Lining/ISO4179	Portland Cement Mortar Lining/ISO4179
	"Sulfate resistant cement"	"Sulfate resistant cement"
	Fusion bonded epoxy(FBE)	Fusion bonded epoxy(FBE)
	Polyurethane(PU)	Polyurethane(PU)
	High Aluminium Cement/EN598	High Aluminium Cement/EN598
External	Black Bitumen Painting(AVE.70um)	Black Bitumen Painting(AVE.70um)
	Metallic Zinc/ISO8179(130g/m <sup>2</sup> )	Metallic Zinc/ISO8179(130g/m <sup>2</sup> )
	Fusion bonded epoxy(FBE)	Fusion bonded epoxy(FBE)
	Red epoxy seal coating/EN598	Red epoxy seal coating/EN598
	PE sleeve	PE sleeve



DUCTILE IRON



STEEL



GREY IRON

## 法兰盘尺寸

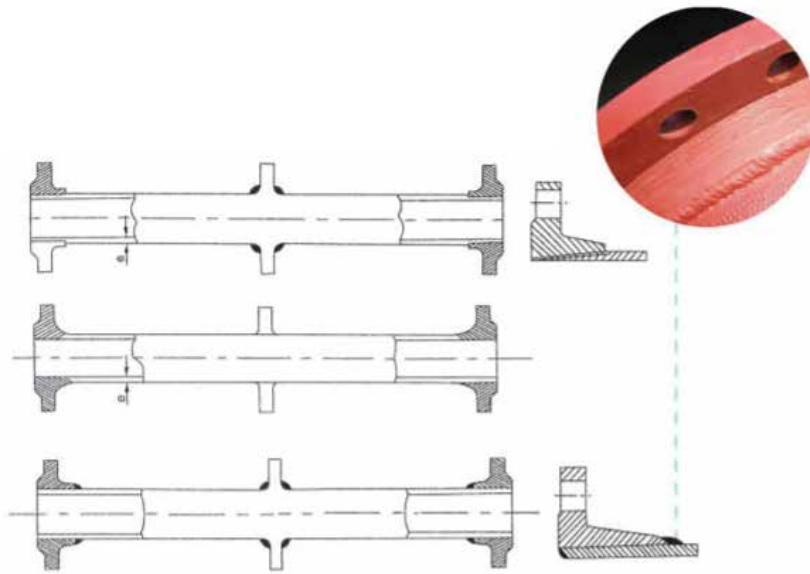
Nominal Diameter DN	d1	D	b	f1	K	L2	Bolt		Mass(kg)
							Size	No.	
80	132	200	16.0	3	160	19	M16	8	2.9
100	156	220	16.0	3	180	19	M16	8	3.3
150	211	285	16.0	3	240	23	M20	8	5.1
200	266	340	17.0	3	295	23	M20	8	7.1
250	319	400	19.0	3	350	23	M20	12	9.8
300	370	455	20.5	4	400	23	M20	12	12.9
350	429	505	20.5	4	460	23	M20	16	14.7
400	480	565	20.5	4	515	28	M24	16	17.7
450	530	615	21.5	4	565	28	M24	20	20.2
500	582	670	22.5	4	620	28	M24	20	24.3
600	682	780	25.0	5	725	31	M27	20	33.7
700	794	895	27.5	5	840	31	M27	24	46.3
800	901	1015	30.0	5	950	34	M30	24	62.1
900	1001	1115	32.5	5	1050	34	M30	28	73.0
1000	1112	1230	35.0	5	1160	37	M33	28	92.9
1200	1328	1455	40.0	5	1380	40	M36	32	138.0
1400	1530	1675	41.0	5	1590	43	M39	36	174.7
1600	1750	1915	44.0	5	1820	49	M45	40	241.8
1800	1950	2115	47.0	5	2020	49	M45	44	281.9
2000	2150	2325	50.0	5	2230	49	M45	48	336.5

## 法兰管尺寸

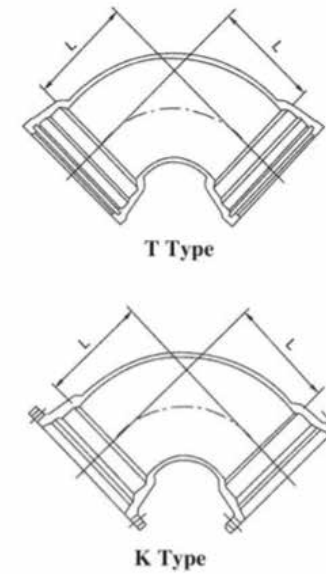
Flanged pipes with screwed-on flanges, k9, k12 DN80-DN600  
L, L1 to be specified

Flanged pipes with cast-on flanges, k9, k12 DN1200-2000  
L ≤ 4000mm

Flanged pipes with welded-on flanges, k9, k12 DN80-DN1000  
L, L1 to be specified



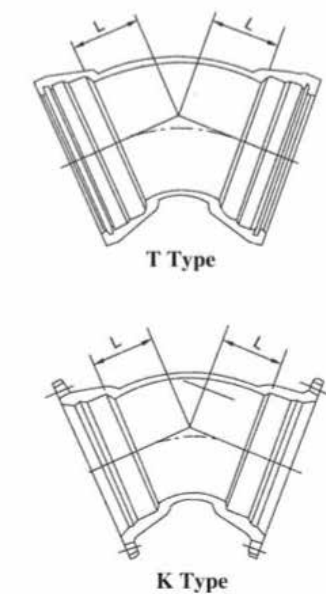
## 90° 双承弯管 Double Socket 90° Bend



K=12

Nominal Diameter DN	L	Mass(kg)	
		T Type	K Type
80	100	8.6	12
100	120	11.5	15.6
150	170	20.5	27.5
200	220	33	40
250	270	48.5	55.5
300	320	68	81.5
350	370	83	105
400	420	143	134
450	470	156	166
500	520	183	202
600	620	273	290
700	720	455	408
800	820	605	544
900	920	813	720
1000	1020	1045	935
1200	1220	1508	1444
1400	1220	2419	1918
1600	1290	3382	2543
1800	1320	3616	3229
2000	1360	4516	4033

## 45° 双承弯管 Double Socket 45° Bend



K=12

Nominal Diameter DN	L	Mass(kg)	
		T Type	K Type
80	55	7.7	11.1
100	65	10.1	14.3
150	85	17.5	24
200	110	27	34
250	130	38.5	45.5
300	150	53	66
350	175	70	83.5
400	195	89	104
450	220	117	127
500	240	139	150
600	285	202	209
700	330	282	289
800	370	378	373
900	415	496	488
1000	460	635	628
1200	550	986	943
1400	515	1273	1223
1600	565	1740	1647
1800	610	2296	2166
2000	660	2970	2791

Nominal Diameter DN	Body						Flange(Kg/pc)			
	k=9		k=10		k=12		PN10	PN16	PN25	PN40
	e mm	kg/m	e mm	kg/m	e mm	kg/m				
80	6.0	12.2	6.0	12.2	7.0	14.1	3.6	3.6	3.5	3.5
100	6.1	15.1	6.1	15.1	7.2	17.7	4.2	4.2	4.5	4.5
150	6.3	22.8	6.5	23.5	7.8	28.0	6.3	6.3	7.1	9.2
200	6.4	30.6	7.0	33.3	8.4	39.7	8.8	8.6	10.4	15.7
250	6.8	40.2	7.5	44.3	9.0	52.8	12.0	11.8	15.3	25.4
300	7.2	50.8	8.0	56.3	9.6	67.3	16.8	16.6	20.8	36.3
350	7.7	63.2	8.5	69.6	10.2	83.1	23.0	25.5	29.0	-
400	8.1	75.5	9.0	83.7	10.8	100.0	26.5	31.0	37.4	-
500	9.0	104.3	10.0	115.6	12.0	138.2	41.0	54.0	54.5	-
600	9.9	137.1	11.0	152.0	13.2	181.8	56.0	79.8	79.1	-
700	10.8	173.9	12.0	193.0	14.4	230.8	72.5	84.2	-	-
800	11.7	215.2	13.0	238.7	15.6	285.5	102.0	117.0	-	-
900	12.6	260.2	14.0	288.7	16.8	345.4	118.5	137.5	-	-
1000	13.5	309.3	15.0	343.2	18.0	410.6	135.0	169.4	-	-
1200	15.3	420.1	17.0	466.1	20.4	557.8	180.0	235.0	-	-
1400	17.1	547.2	19.0	607.2	22.8	726.8	253.0	301.0	-	-
1600	18.9	690.3	21.0	766.0	25.2	916.9	340.0	430.0	-	-
1800	20.7	850.1	23.0	943.4	27.6	1129.3	-	-	-	-
2000	22.5	1026.3	25.0	1139.0	30.0	1363.4	-	-	-	-

## 22.5° 双承弯管 Double Socket 22.5° Bend



T Type

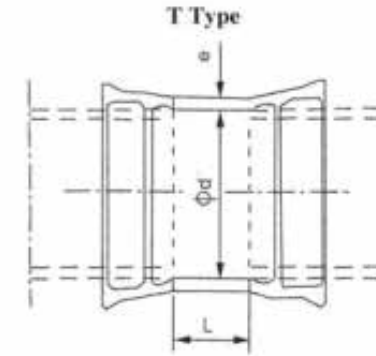


K Type

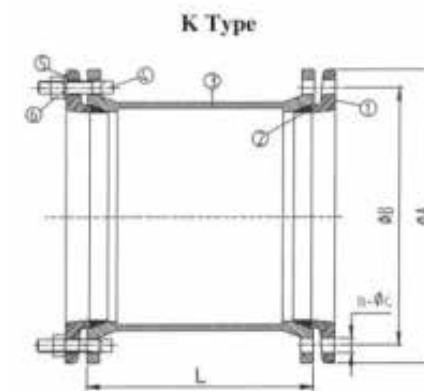
K=12

Nominal Diameter DN	L	Mass(kg)	
		T Type	K Type
80	40	7.5	10.7
100	40	9.5	13.5
150	55	15.9	22.5
200	65	24	30.5
250	75	33.5	40.5
300	85	44.5	58
350	95	58	71
400	110	74	88
450	120	95	105
500	130	111	123
600	150	157	164
700	175	217	223
800	195	287	281
900	220	373	364
1000	240	470	463
1200	285	716	671
1400	260	933	882
1600	280	1259	1167
1800	305	1663	1533
2000	330	2114	1965

## 承套 Collar



T Type



K Type

K=12

Nominal Diameter DN	e	d	L	Mass(kg)
80	7	109	160	7.9
100	7.2	130	160	9.9
150	7.8	183	165	15.9
200	8.4	235	170	23
250	9	288	175	31.5
300	9	340	180	41
350	10.2	393	185	52
400	10.8	445	190	64
450	11.4	498	195	91
500	12	550	200	93
600	13.2	655	210	129
700	14.4	760	220	172
800	15.6	865	230	223
900	16.8	970	240	282
1000	18	1075	250	349
1200	20.4	1285	270	560
1400	22.8	1477	340	816
1600	25.2	1683	360	1094

## 11.25° 双承弯管 Double Socket 11.25° Bend



T Type



K Type

K=12

Nominal Diameter DN	L	Mass(kg)	
		T Type	K Type
80	30	7.1	10.5
100	30	8.9	13.1
150	35	14.8	21.5
200	40	22	29
250	50	30.5	37.5
300	55	40.5	54
350	60	52	65.5
400	65	65	79
450	70	83.5	93.5
500	75	96	108
600	85	134	141
700	95	181	187
800	110	239	234
900	120	305	297
1000	130	381	375
1200	150	568	524
1400	130	747	697
1600	140	1007	914
1800	155	1331	1200
2000	165	1702	1522

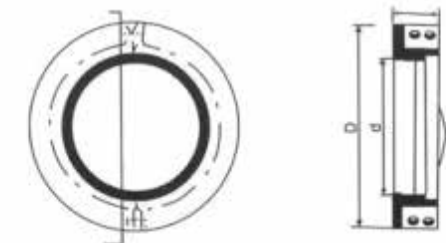
K=12

Nominal Diameter DN	D	L	d	Mass(kg)
80	260	110	100	11.5
100	305	110	120	14.5
150	390	130	172	23
200	430	130	224	28
250	490	130	276	37
300	555	130	329	46
350	610	130	381	50
400	660	150	432	62
450	725	150	483	73
500	790	150	535	85
600	900	165	638	120
700	1000	165	746	144
800	1100	185	850	189
900	1200	185	953	221
1000	1340	200	1056	309
1100	1440	200	1160	345
1200	1570	225	1263	441
1400	1780	225	1470	540
1600	1996	225	1686	608

MJ Collar

Nominal Diameter DN	ΦA	ΦB	n	Φd	L
80	218	168	4	23	325
100	236	188	4	23	325
150	299	242	6	23	330
200	350	295	6	23	340
250	408	349	8	23	355
300	467	409	8	23	360
350	515	462	10	23	380
400	566	515	12	23	400
450	638	580	12	23	410
500	670	621	14	23	425
600	808	727	14	23	450

## 分离式穿墙法兰 Split Puddle Flanger for Ductile Iron Pipe



K=14

Nominal Diameter DN		L	H	Mass(kg)					
DN	dn			T Type			K Type		
				PN10	PN16	PN25	PN10	PN16	PN25
200	80	245	250	39.5	39.5	39.5	43	43	43
250	80	250	275	49.5	49.5	49.5	54	54	54
300	80	255	300	62	62	62	73.5	73.5	73.5
350	100	280	325	83	83	84	90.5	90.5	91
400	100	280	350	97.5	97.5	99	107	107	108
450	100	285	375	115	115	117	125	125	126
500	100	290	400	134	134	136	143	143	144
600	100	295	450	173	173	175	183	183	182
700	150	360	500	255	255	257	255	255	256
800	150	365	550	335	335	336	310	310	311
900	150	370	600	382	383	384	382	382	383
1000	200	435	650	501	501	504	501	501	503
1200	200	445	750	679	679	682	679	679	681

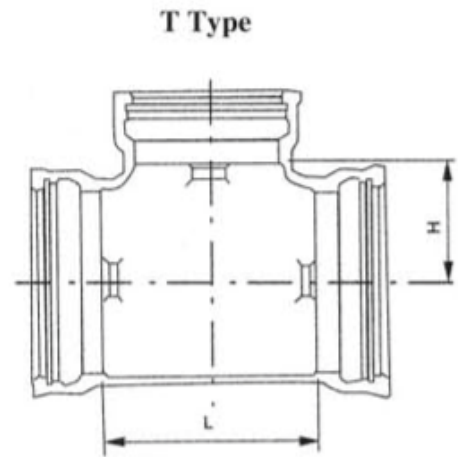
## 盘承管

K=12

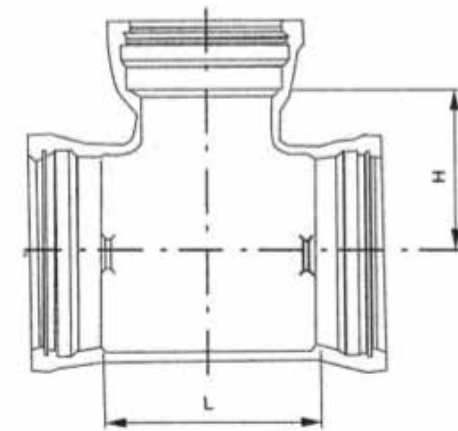
Nominal Diameter DN	L	Mass(kg)					
		T Type			K Type		
		PN10	PN16	PN25	PN10	PN16	PN25
80	130	7.5	7.5	7.5	9.3	9.3	9.3
100	130	9	9	9.5	11.3	11.3	12.5
150	135	14.5	14.5	15.5	18	18	19
200	140	20.5	20.5	22	24.5	24	16
250	145	28	28	31.5	32.5	32	35.5
300	150	37	37	42	44.5	44	49.5
350	155	45	48	56	53	55.5	63
400	160	55	60	71	64	68	78.5
450	165	70.5	78	88.5	74.5	82	92.5
500	170	78	93	104	87	100	110
600	180	108	135	149	115	138	149
700	190	144	159	191	162	174	—
800	200	189	208	257	205	220	—
900	210	235	258	319	252	271	—
1000	220	293	324	402	317	351	—
1200	240	456	524	321	450	505	—
1400	310	654	723	875	654	711	—
1600	330	887	989	1166	873	963	—
1800	350	1125	1251	1491	1103	1214	—
2000	370	1414	1567	1920	1378	1516	—



# 全承三通 All Socket Tee



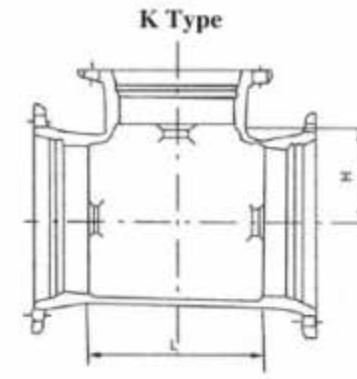
DN 80 to DN 250



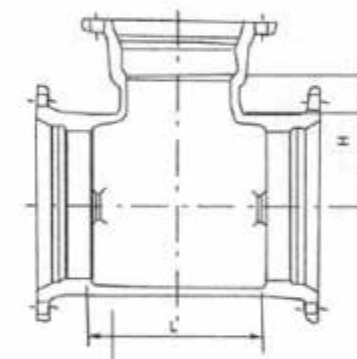
DN 300 to DN 600

K=14

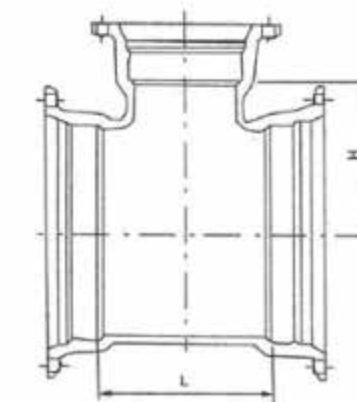
Nominal Diameter		L	H	Mass(kg)	
DN	dn			T Type	K Type
80	80	170	85	12.5	17.7
100	80	170	95	14.8	21.5
100	100	190	95	16.1	23.5
150	80	170	120	21.5	29.5
150	100	195	120	23.5	31
150	150	255	125	28	35.6
200	80	175	145	30	37.9
200	100	200	145	32	38.8
200	150	255	150	37	45
200	200	315	155	43	50.5
250	100	200	170	42	49
250	150	260	175	48	61
250	200	315	180	54	63.5
250	250	375	190	55	71.5
300	100	205	195	59	66.5
300	150	260	200	70	80.5
300	200	320	205	72	84
300	300	435	220	81	106
350	100	210	225	67.5	78
350	150	260	230	79.6	95
350	200	320	235	85	98
350	300	380	240	106	122
350	350	495	250	116	133
400	100	210	245	81	92
400	150	270	250	90	111
400	200	325	255	98	114
400	300	440	270	119	140
400	400	560	280	142	167
450	150	270	280	111	128
450	200	330	280	122	131
450	300	445	295	144	160
450	400	560	305	168	188
450	450	620	310	181	203
500	150	275	300	131	145
500	200	330	310	145	148
500	300	450	320	165	179
500	400	565	330	187	210
500	500	680	340	221	242
600	150	280	350	188	184
600	200	340	360	201	187
600	300	455	370	208	223
600	400	570	380	243	259
600	600	800	400	335	337



DN 80 to DN 250



DN 300 to DN 600



DN 700 to DN 2600

K=14

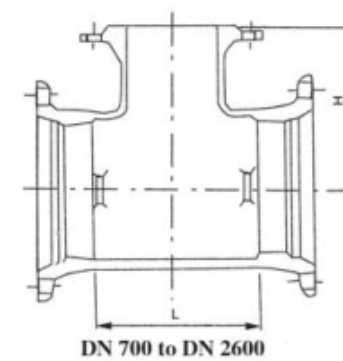
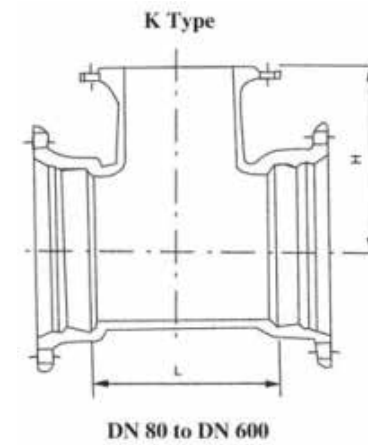
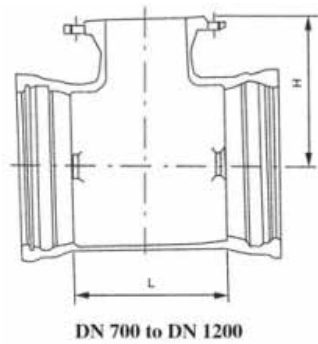
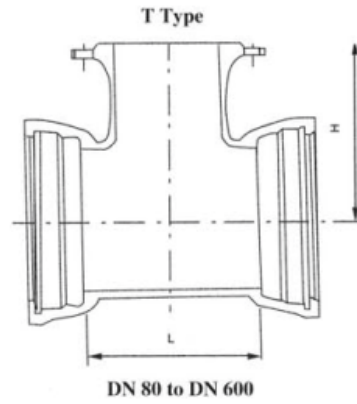
Nominal Diameter		L	H	Mass(kg)	
DN	dn			T Type	K Type
700	200	345	410	248	250
700	300	460	420	286	292
700	400	575	430	328	333
700	600	810	450	416	422
700	700	925	460	474	475
800	200	350	460	309	301
800	300	465	470	354	350
800	400	580	480	403	398
800	600	815	500	580	576
800	800	1045	525	632	618
900	200	355	510	382	370
900	400	590	530	493	484
900	600	820	550	747	739
900	800	1050	575	795	777
900	900	1170	585	826	806
1000	200	360	560	464	453
1000	400	595	580	592	584
1000	600	825	600	943	936
1000	800	1060	625	988	971
1000	1000	1290	645	1054	1033
1200	400	605	720	840	780
1200	600	840	740	1009	950
1200	800	1070	765	1198	1129
1200	1000	1300	785	1401	1331
1200	1200	1535	805	1644	1547
1400	600	1030	840	1679	1422
1400	800	1260	865	1910	1641
1400	1000	1495	885	2441	1886
1400	1200	1725	905	2795	2133
1400	1400	1960	930	3124	2436
1600	600	1040	940	2245	1806
1600	800	1275	965	2546	2073
1600	1000	1505	985	2851	2363
1600	1200	1740	1010	3663	2660
1600	1400	1970	1030	4066	2992
1600	1600	2200	1050	4474	3346
1800	600	1055	1040	-	2272
1800	800	1285	1065	-	2591
1800	1000	1520	1085	-	2933
1800	1200	1750	1110	-	3274
1800	1400	1980	1130	-	3652
1800	1600	2215	1150	-	4052
1800	1800	2445	1175	-	4498
2000	600	1065	1140	-	2793
2000	800	1300	1165	-	3179
2000	1000	1530	1185	-	3572
2000	1200	1760	1210	-	3968
2000	1400	1995	1230	-	4407
2000	1600	2225	1250	-	4850
2000	1800	2460	1275	-	5346
2000	2000	2690	1295	-	5873



# 两承一盘三通管 Double Socket Tee With Flanged Branch

K=14

Nominal Diameter		L	H	Mass(kg)					
DN	dn			T Type			K Type		
				PN10	PN16	PN25	PN10	PN16	PN25
80	80	170	165	13.5	13.5	13.5	16.7	16.7	16.7
100	80	170	175	15.8	15.8	15.8	19.7	19.7	19.7
100	100	190	180	17.5	17.5	18	21	21	21.5
150	80	170	205	23	23	23	28.5	28.5	28.5
150	100	195	210	24.5	24.5	25	30.5	30.5	31.5
150	150	255	220	29.5	29.5	30.5	35.5	35.5	36.5
200	80	175	235	31.5	31.5	31.5	36.5	36.5	36.5
200	100	200	240	33.5	33.5	34	38.5	38.5	39
200	150	255	250	39	39	40.5	44.5	44.5	45.5
200	200	315	260	45.6	46	47.5	51.5	51	51
250	80	175	270	44	44	44	47	47	47
250	100	200	270	43.5	43.5	44	48	48	48.5
250	150	260	280	56.5	56.5	57.6	59	59	60
250	200	315	290	57	57	59	62.5	62	64
250	250	375	300	65	66	69	71.5	71	74.5
300	80	180	295	53	53	53	64	64	64
300	100	205	300	54	55	56	65	65	64.5
300	150	260	310	64	64	69	78.5	78.5	79.5
300	200	320	320	71	70	73	81.5	81.5	83.5
300	300	435	340	89	91	95	102	102	107
350	80	185	325	70.5	70.5	70.5	76	76	76
350	100	205	330	71.5	71	71.5	76.5	76.5	77
350	150	265	340	87.5	87.5	89.5	93	93	94
350	200	325	350	90.5	86	88	96	96	98
350	300	440	370	113	118	129	118	118	123
350	350	495	380	117	120	129	129	132	139
400	80	185	360	80	80	80	90	90	90
400	100	210	360	83	83	83.5	91	91	91.5
400	150	265	370	88	88	90	109	109	110
400	200	325	380	103	102	104	113	112	114
400	300	440	400	129	128	137	137	136	142
400	400	560	420	150	156	167	163	167	178
450	80	190	385	97.5	97.5	97.5	105	105	105
450	100	215	395	106	106	107	106	106	106
450	150	270	400	119	119	120	127	127	128
450	200	330	410	122	122	124	130	130	132
450	300	445	430	149	149	154	157	157	162
450	400	560	450	177	181	192	185	189	200
450	450	620	460	192	200	211	200	208	219
500	80	195	420	110	110	110	119	119	119
500	100	215	420	116	116	117	120	120	120
500	150	275	430	126	126	131	143	143	144
500	200	330	440	142	141	143	147	146	148
500	300	450	460	165	165	169	177	177	182
500	400	565	480	199	205	216	207	212	223
500	500	680	500	232	247	259	242	256	266
600	80	200	480	150	150	150	151	151	151
600	100	220	480	159	159	161	152	152	153
600	150	280	500	170	170	172	183	183	184
600	200	340	500	189	189	191	187	187	188
600	300	455	520	235	235	240	222	222	227
600	400	570	540	258	263	274	258	263	274
600	600	800	580	340	366	380	345	368	360

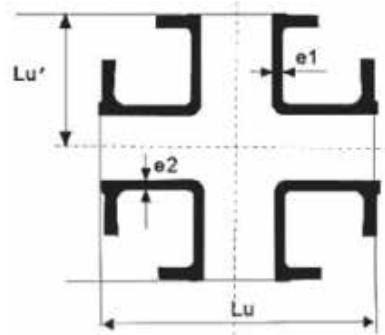


K=14

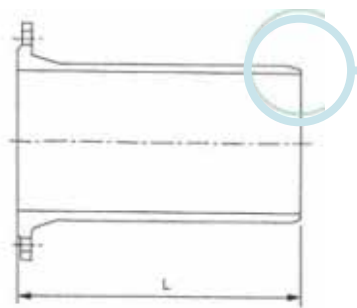
Nominal Diameter		L	H	Mass(kg)					
DN	dn			T Type			K Type		
				PN10	PN16	PN25	PN10	PN16	PN25
700	100	230	510	240	240	241	243	243	244
700	150	285	520	241	242	242	246	246	247
700	200	345	525	242	242	244	250	249	251
700	400	575	555	320	325	336	329	334	345
700	600	810	585	421	445	460	422	445	457
700	700	925	600	460	475	506	476	488	521
800	100	235	570	304	304	305	295	295	295
800	150	290	580	305	308	306	298	298	299
800	200	350	585	306	306	308	302	301	303
800	400	580	615	398	403	414	396	401	412
800	600	815	645	579	605	620	579	603	614
800	800	1045	675	623	642	691	631	646	699
900	150	295	640	376	376	377	368	368	369
900	200	355	645	379	379	381	371	371	373
900	400	590	675	490	495	506	484	488	499
900	600	1170	705	748	774	789	745	769	760
900	800	1050	735	808	823	872	795	810	863
900	900	1170	750	814	838	899	822	841	907
1000	150	305	670	560	566	561	451	451	452
1000	200	360	705	462	462	464	455	455	457
1000	400	595	735	591	596	607	566	591	602
1000	600	1290	765	947	973	988	946	970	981
1000	800	1290	795	1006	1021	1070	994	1009	1062
1000	1000	1290	825	1044	1086	1164	1059	1094	1179
1200	200	375	825	836	838	840	618	618	620
1200	400	605	855	852	856	867	787	792	803
1200	600	840	885	1000	1027	1042	967	991	1003
1200	800	1070	915	1190	1210	1259	1162	1177	1250
1200	1000	1300	945	1406	1448	1526	1372	1406	1492
1200	1200	1535	975	1682	1736	1836	1617	1672	1781
1400	400	800	950	1341	1368	1379	1221	1226	1237
1400	600	1030	980	1478	1505	1520	1441	1464	1476
1400	800	1260	1010	1709	1728	1777	1677	1692	-
1400	1000	1495	1040	1955	1996	2074	1929	1964	-
1400	1200	1725	1070	-	-	-	2205	2260	-
1400	1400	1960	1100	-	-	-	2501	2557	-
1600	400	810	1060	-	-	-	1561	1566	1576
1600	600	1040	1090	1908	1936	1949	1831	1854	1866
1600	800	1275	1120	2192	2211	2261	2121	2136	-
1600	1000	1505	1150	2480	2523	2600	2416	2451	-
1600	1200	1740	1180	2799	2863	-	2743	2798	-
1600	1400	1970	1210	-	-	-	3073	3130	-
1600	1600	2200	1240	-	-	-	3461	3551	-
1800	600	1055	1200	2414	2440	2455	2302	2326	1337
1800	800	1285	1230	2748	2767	2817	2642	2657	-
1800	1000	1520	1260	3095	3137	3215	2998	3032	-
1800	1200	1750	1290	3460	3542	3624	3371	3426	-
1800	1400	1980	1320	-	-	-	3750	3807	-
1800	1600	2215	1350	-	-	-	4188	4277	-
1800	1800	2445	1380	-	-	-	4624	4735	-
2000	600	1065	1310	2988	3015	3030	2830	2853	2865
2000	800	1300	1340	-	-	-	3239	3254	-
2000	1000	1530	1370	3790	3832	3910	3648	3682	-
2000	1200	1760	1400	-	-	-	4079	4134	-
2000	1400	1995	1430	4645	4713	4865	4523	4580	-
2000	1600	2225	1460	-	-	-	5007	5097	-
2000	1800	2460	1490	-	-	-	5497	5609	-
2000	2000	2690	1520	-	-	-	6030	6168	-

## 全盘四通 All Flanged Cross

DN	Branch	e1/e2	Lu	Mass(kg)
80	80	8.1	330	20.1
100	100	8.4	360	25
150	150	9.1	440	41.1
200	200	9.8	520	60.9
250	250	10.5	700	101
300	300	11.2	800	128
400	400	12.6	900	234
500	500	14.0	1000	399
600	600	15.4	1100	521



## 盘插管 Flanged Spigot

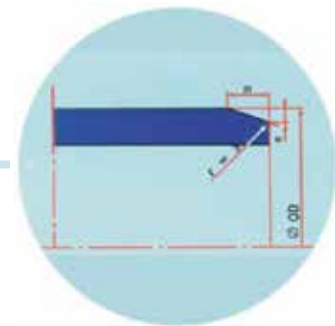
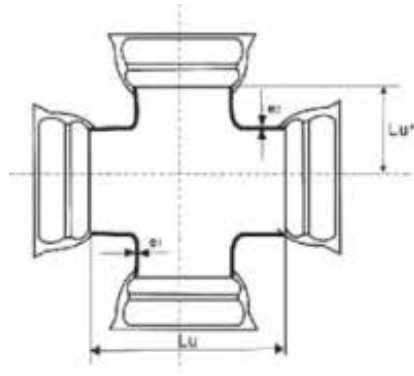


## Pipe Spigot Dimension

Nominal Diameter DN	OD mm	m mm	n mm
80	98	9	3
100	118	9	3
150	170	9	3
200	222	9	3
250	274	9	3
300	326	9	3
350	378	9	3
400	429	9	3
450	532	9	3
500	635	9	3
600	738	15	5
700	842	15	5

## 全承十字管 All Socket Cross

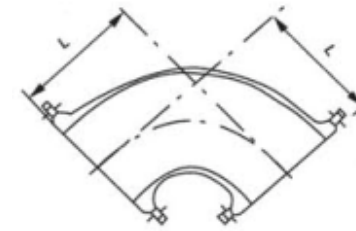
DN	Branch	e1/e2	Lu	Mass(kg)
80	80	8.1	170	15.3
100	100	8.4	190	19.8
150	150	9.1	250	33.6
200	200	9.8	310	50.9
250	250	10.5	370	75.1
300	300	11.2	430	101
400	400	12.6	550	177
500	500	14.0	680	272
600	600	15.4	800	399



Nominal Diameter DN	L	Mass(kg)		
		PN10	PN16	PN25
80	350	7.8	7.8	7.8
100	360	9.7	9.7	10.2
150	380	15.6	15.6	16.6
200	400	23	23	25
250	420	32	32	35.5
300	440	43	42.5	47.5
350	460	52	55	64
400	480	64	70	81
450	500	78	88	98
500	520	94	109	121
600	560	133	159	173
700	600	179	194	225
800	600	226	245	294
900	600	272	295	356
1000	600	328	369	447
1200	600	456	520	620
1400	710	664	732	884
1600	780	922	1024	1201

## 双法兰弯管 Double Flanged Bend

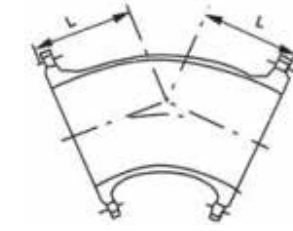
90°



K=12

Nominal Diameter DN	L	Mass(kg)		
		PN10	PN16	PN25
80	165	9.6	9.6	9.6
100	180	12	12	13
150	220	20	20	22
200	260	31.5	31	35
250	350	50.5	49.5	57
300	400	70	70	81
350	450	90	96	113
400	500	116	127	149
450	550	148	164	184
500	600	181	211	235
600	700	272	325	353
700	800	386	416	479
800	900	533	572	671
900	1000	698	745	866
1000	1100	907	990	1146
1200	1300	1452	1568	1767
1400	1350	1948	2068	2373
1600	1450	2663	2852	3206
1800	1500	3348	3580	4060

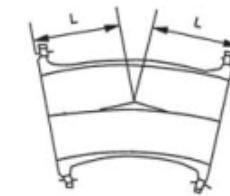
45°



K=12

Nominal Diameter DN	L	Mass(kg)		
		PN10	PN16	PN25
80	130	9.5	9.5	9.5
100	140	11.5	11.5	12.5
150	160	18.5	18.5	21
200	180	28	27	31
250	350	55	54	62
300	400	78	77	88
350	298	76	83	98
400	324	96	107	129
450	349	120	135	157
500	375	145	175	198
600	426	212	268	294
700	478	296	326	389
800	529	403	442	541
900	581	519	567	688
1000	630	668	751	907
1200	750	1080	1178	1377
1400	775	1388	1584	1829
1600	845	1915	2119	2473
1800	910	2465	2717	3197
2000	980	3149	3455	4161

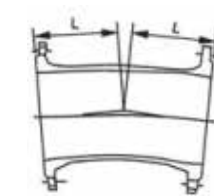
22.5°



K=12

Nominal Diameter DN	L	Mass(kg)		
		PN10	PN16	PN25
80	130	9.5	9.5	9.5
100	140	12	12	13
150	160	19.7	19.7	21
200	180	29	27.5	32
250	350	56.5	56	63
300	400	79	78.5	89
350	298	78.5	84	100
400	324	98.5	108	131
450	349	122	138	160
500	375	151	178	199
600	426	221	269	292
700	478	311	334	397
800	529	423	453	552
900	581	543	581	702
1000	632	700	769	925
1200	735	1088	1198	1397
1400	835	1551	1664	1969
1600	940	2190	2369	2723
1800	480	1640	1864	2344
2000	520	2081	2357	3063

11.25°



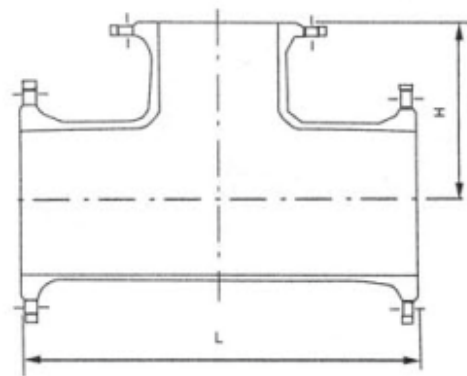
K=12

Nominal Diameter DN	L	Mass(kg)		
		PN10	PN16	PN25
80	130	9.5	9.5	9.4
100	140	12	12	13
150	160	19.7	19.7	21
200	180	29	28	32
250	350	55	54	63.5
300	400	79.5	79	89.5
350	298	79	84.5	100
400	324	100	109	131
450	349	123	129	160
500	375	150	178	200
600	426	196	257	294
700	478	313	336	399
800	529	426	455	554
900	581	546	584	705
1000	632	704	773	929
1200	735	1094	1204	1403
1400	835	1560	1674	1975
1600	940	2203	2382	2736
1800	345	1342	1566	2046
2000	375	1694	1970	2176

# 全盘三通管 All Flanged Tee

K=14

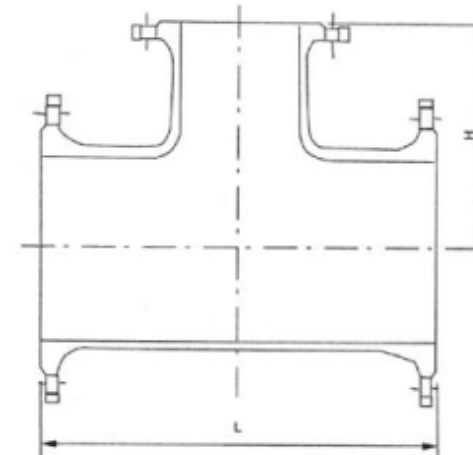
Nominal Diameter		L	H	Mass(kg)		
DN	dn			PN10	PN16	PN25
80	80	330	165	15.8	15.8	15.8
100	80	360	175	18.4	18.4	19.6
100	100	360	180	19.5	19.5	21
150	80	440	205	29	29	31
150	100	440	210	30	30	32.5
150	150	440	220	32.5	32.5	36.5
200	80	520	235	42	41.5	46
200	100	520	240	43	42	47.5
200	150	520	250	46	45.5	51
200	200	520	260	49.5	49	56
250	100	700	275	68	67	75
250	150	700	300	68	67	74.8
250	200	700	325	76	75	85
250	250	700	350	82	81	93
300	100	800	300	94	93	105
300	150	800	325	97	96	109
300	200	800	350	102	101	114
300	300	800	400	116	115	131
350	100	850	325	116	122	139
350	150	850	325	118	125	143
350	200	850	325	121	128	146
350	300	850	425	138	147	170
350	350	850	425	142	151	176
400	100	900	350	143	154	177
400	150	900	350	148	157	181
400	200	900	350	148	159	184
400	300	900	450	167	176	204
400	400	900	450	174	191	225
450	100	950	375	177	193	216
450	150	950	375	180	196	220
450	200	950	375	183	199	224
450	300	950	475	199	215	244
450	400	950	475	210	230	264
450	450	950	475	216	240	275
500	100	1000	400	210	241	265
500	150	1000	400	215	244	268
500	200	1000	400	242	245	271
500	300	1000	500	235	263	292
500	400	1000	500	242	276	311
500	500	1000	500	252	297	332
600	150	1100	450	307	356	386
600	200	1100	450	305	358	388
600	300	1100	550	326	375	410
600	400	1100	550	329	387	427
600	600	1100	550	355	434	477



# 全盘三通管 All Flanged Tee

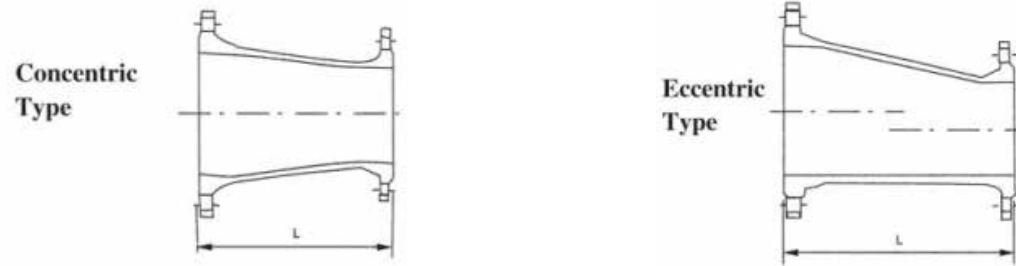
K=14

Nominal Diameter		L	H	Mass(kg)		
DN	dn			PN10	PN16	PN25
700	200	650	525	258	298	363
700	300	760	540	344	370	439
700	400	870	555	343	379	453
700	600	1200	585	468	519	596
700	700	1200	600	477	523	617
800	200	690	585	352	390	491
800	300	800	600	440	478	582
800	400	910	615	441	484	593
800	600	1350	645	613	678	790
800	800	1350	675	657	715	862
900	200	730	645	436	484	607
900	400	950	675	541	594	726
900	600	1500	705	787	862	996
900	800	1500	735	835	901	1071
900	900	1500	750	853	924	1106
1000	200	770	705	546	629	787
1000	400	990	735	668	755	922
1000	600	1650	765	1007	1116	1287
1000	800	1650	795	1072	1191	1396
1000	1000	1650	825	1105	1229	1463
1200	400	1005	855	1008	1131	1302
1200	600	1240	885	1101	1256	1470
1200	800	1470	915	1291	1492	1687
1200	1000	1700	945	1494	1714	1941
1200	1200	1935	975	1806	1970	2269
1400	600	1550	980	1555	1818	2138
1400	800	1760	1010	1668	2041	2395
1400	1000	2015	1040	2131	2309	2692
1400	1200	2245	1070	2262	2431	2836
1400	1400	2475	1100	2545	2715	3173
1600	600	1600	1090	2167	2398	2767
1600	800	1835	1120	2452	2675	3079
1600	1000	2065	1150	2740	2986	3418
1600	1200	2300	1180	3058	3327	3781
1600	1400	2530	1210	3208	3444	3950
1600	1600	2760	1240	3586	3854	4385
1800	600	1655	1200	2694	2972	3467
1800	800	1885	1230	3023	3299	3828
1800	1000	2120	1260	3375	3699	4227
1800	1200	2350	1290	3740	4056	4636
1800	1400	2580	1320	3910	4190	4822
1800	1600	2815	1350	4328	4641	5298
1800	1800	3045	1380	4750	5086	5806
2000	600	1705	1310	3309	3642	4362
2000	800	1720	1340	3505	3796	4551
2000	1000	1940	1370	4112	4459	5243
2000	1200	2160	1400	4314	4644	5450
2000	1400	2380	1430	4966	5340	6198
2000	1600	2600	1460	5202	5567	6450
2000	1800	2820	1490	5668	6055	7001
2000	2000	3040	1520	6185	6599	7658





## 双法兰渐缩管 Double Flanged Taper



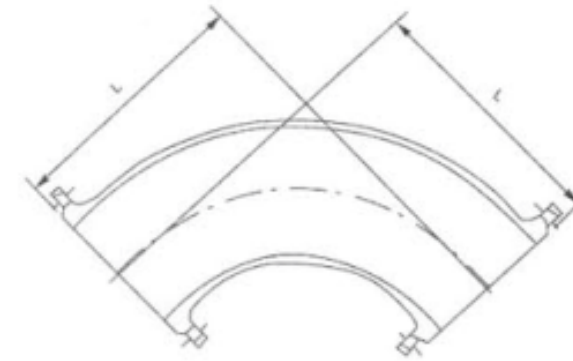
K=12

Nominal Diameter		L	Mass(kg)		
DN	dn		PN10	PN16	PN25
100	80	200	9.5	9.5	9.8
150	80	400	15.2	15.2	16.2
150	100	300	15.5	15.5	17
200	100	600	29.5	28	30.8
200	150	300	22	21.5	25
250	150	600	43	42.5	46.7
250	200	300	30	29.5	35.5
300	150	600	56	55	62
300	200	600	58.5	57	65
300	250	300	40.5	39.5	49.5
350	200	600	60.5	63.5	74
350	250	600	67	70	82.5
350	300	300	49.5	52	66
400	200	600	74.5	73	86.5
400	250	600	77	83	98.5
400	300	600	82	90	107
400	350	300	58	67	86
450	250	600	82	87	103
450	300	600	87	92	110
450	350	600	96	106	125
450	400	300	81	85	101
500	300	600	126	134	152
500	350	600	117	125	150
500	400	600	110	130	153
500	450	300	83	104	127
600	350	700	167	188	226
600	400	600	164	191	229
600	450	600	167	193	221
600	500	600	195	210	216
700	400	800	196	212	255
700	450	700	197	217	259
700	500	600	200	256	268
700	600	600	195	236	282
800	450	900	263	286	347
800	500	800	256	284	346
800	600	600	260	298	363
800	700	600	263	290	371

K=12

Nominal Diameter		L	Mass(kg)		
DN	dn		PN10	PN16	PN25
900	500	1000	338	370	443
900	600	800	318	360	436
900	700	600	321	352	444
900	800	600	308	352	462
1000	600	1000	422	490	583
1000	700	800	396	442	551
1000	800	600	399	448	575
1000	900	600	376	438	577
1200	700	1260	711	777	908
1200	800	1070	688	758	908
1200	900	880	652	726	887
1200	1000	790	586	692	879
1200	1100	600	566	655	850
1400	800	1590	1034	1105	1308
1400	900	1405	998	1074	1288
1400	1000	1220	961	1052	1236
1400	1100	1035	914	1005	1253
1400	1200	850	817	947	1199
1600	1000	1650	1424	1547	1802
1600	1100	1460	1377	1502	1774
1600	1200	1280	1324	1468	1745
1600	1400	910	1103	1273	1602
1600	1500	725	1073	1250	1594
1800	1100	1895	1910	2057	2392
1800	1200	1710	1858	2024	2363
1800	1400	1340	1701	1870	2263
1800	1500	1155	1610	1810	2216
1800	1600	970	1436	1664	2081
2000	1200	2140	2512	2705	3068
2000	1400	1770	2358	2553	3059
2000	1500	1585	2268	2494	3014
2000	1600	1400	2176	2404	2934
2000	1800	1030	1800	2079	2671

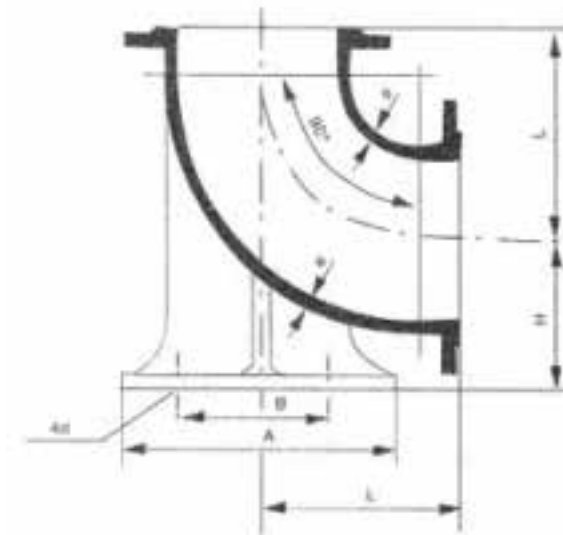
## 双法兰90° 长颈弯管 Double Flanged 90° Long Radius Bend



K=12

Nominal Diameter DN	L	Mass(kg)		
		PN10	PN16	PN25
80	380	14.5	14.5	14.5
100	400	18	18	19
150	450	30.5	30.5	32.5
200	500	46.5	46	50
250	550	67	66	73.5
300	600	91	90.5	101
350	650	117	122	138
400	700	149	158	180
450	750	184	200	221
500	800	227	254	275
600	900	332	379	403
700	1000	466	489	552
800	1100	632	661	759
900	1200	816	854	975
1000	1300	1048	1117	1272
1200	1500	1627	1737	1936

## 双法兰90° 鸭掌弯管 Double Flanged 90° Duckfoot Bend



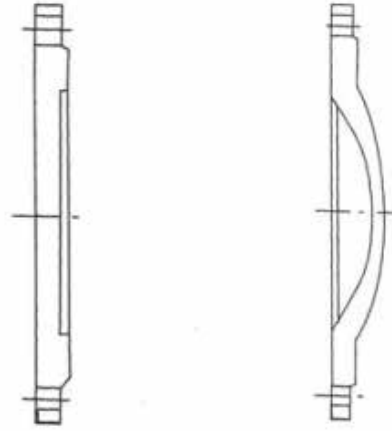
K=12

Nominal Diameter DN	L	L	L	L	L	Mass(kg)		
						PN10	PN16	PN25
80	165	110	180	120	19	14.1	14.1	14.8
100	180	125	200	130	23	17.8	17.8	19.2
150	220	160	250	165	28	30	30	32
200	250	190	300	215	28	46.5	46	52.5
250	350	225	350	250	31	75	75	82
300	400	255	400	300	31	106	105	116
350	450	290	450	350	34	139	145	162
400	500	320	500	390	37	178	189	212
450	550	350	550	440	37	245	261	283
500	600	385	600	490	37	283	313	337
600	700	450	700	580	40	428	481	509
700	800	515	800	680	43	684	708	683
800	900	580	900	770	49	944	974	1000
900	1000	645	1000	870	49	1252	1290	1411
1000	1100	710	1100	960	56	1629	1698	1854
1200	1300	840	1300	1160	56	2599	2709	2908

## 盲法兰 Blank Flange

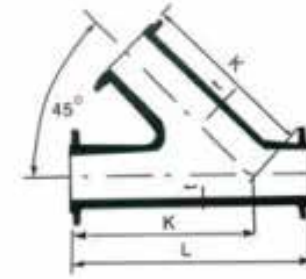
DN 80 to DN 300

DN 350 to DN 2000

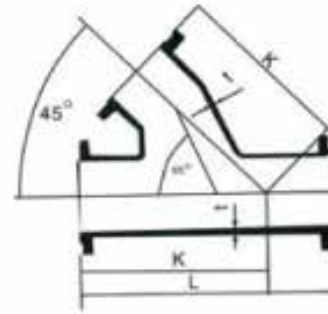


K=12

Nominal Diameter DN	Mass(kg)		
	PN10	PN16	PN25
80	3.9	3.9	3.9
100	4.8	4.8	5.1
150	8.1	8.1	8.8
200	11.6	11.4	13.3
250	16.9	16.6	21
300	24	23.5	30
350	32.5	37	46.5
400	40.5	48.5	62.5
450	50	63.5	80.5
500	62	83	100
600	94	130	154
700	136	169	--
800	189	235	--
900	244	307	--
1000	309	413	--
1200	504	662	--
1400	739	993	--
1600	1239	1409	--
1800	1240	1858	--
2000	1630	2407	--



Type N



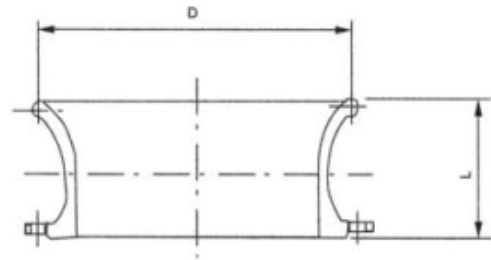
Type M

## 全法兰45° 分支三通管 All Flanged 45° Angle Branches

K=14

Nominal Diameter		Type N	t	tl	L	K	Mass(kg) PN16
DN	dn						
80	80	N	8.1	8.1	500	375	21.0
100	100	N	8.4	8.4	540	405	27.0
150	150	N	9.1	9.1	640	480	46.4
200	200	N	9.8	9.8	735	560	70.1
250	250	N	10.5	10.5	830	640	103.8
300	300	N	11.2	11.2	930	715	145.5
350	350	M	11.9	11.9	880	790	167.4
400	400	M	12.6	12.6	970	870	204.1
450	450	M	13.3	13.3	1060	950	277.0
500	500	M	14	14	1140	1025	350.9
600	600	M	15.4	15.4	1310	1180	540.7

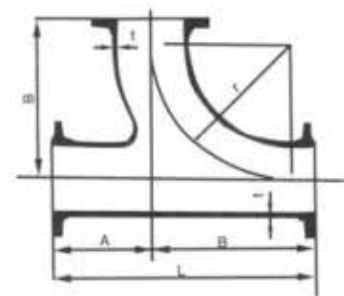
## 钟口 Flange Bellmouth



K=12

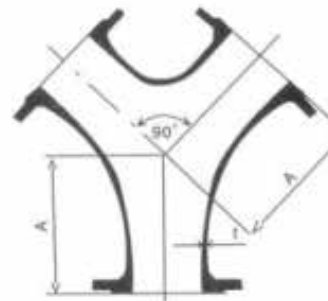
Nominal Diameter	D	L	Mass(kg)		
			PN10	PN16	PN25
80	160	135	5.2	5.2	5.2
100	185	140	6.2	6.2	6.7
150	245	155	10.1	10.1	11.1
200	310	170	15	14.8	16.8
250	370	190	21.5	21	25
300	435	210	29.8	29	35
350	495	225	36.1	39	47.5
400	560	245	45	51	62.2
450	620	260	55	63	73
500	685	280	67	82.5	94.2
600	810	300	96.5	122	137
700	945	340	136	154	186
800	1055	380	184	203	252
900	1165	420	240	263	324
1000	1290	440	298	339	417
1200	1515	490	457	512	612
1400	1670	515	646	702	854
1600	1725	540	906	995	1172

## 全法兰分水三通管 All Flanged Radial Tee



K=14

Nominal Diameter		L	A	B	r	Mass(kg) PN16
DN	dn					
80	80	545	165	380	330	23
100	100	580	180	400	340	30
150	150	670	220	450	385	52
200	200	760	260	500	430	80
250	250	900	350	550	475	121
300	300	1000	400	600	515	163
350	350	1100	450	650	560	222
400	400	1200	500	700	605	299
450	450	1300	550	750	650	394
500	500	1400	600	800	690	489
600	600	1600	700	900	780	739

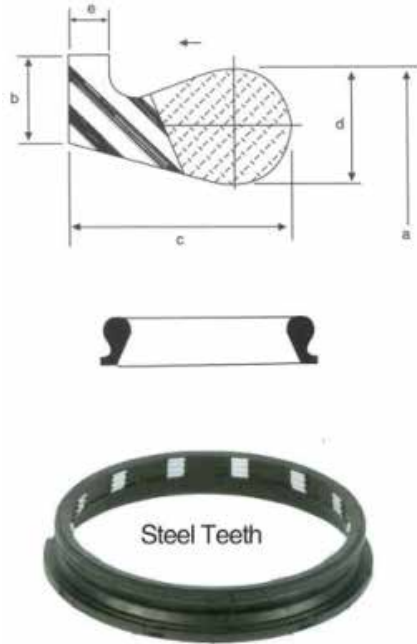


## 全法兰“Y”型三通管 All Flanged “Y” Tees

K=14

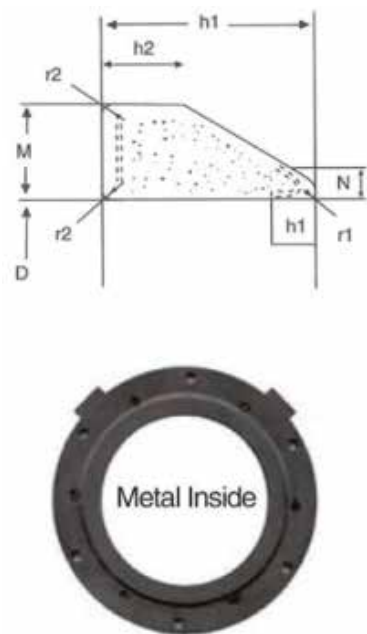
Nominal Diameter DN	T	A	Mass(kg) PN16
80	8.1	165	21.0
100	8.4	180	27.0
150	9.1	220	46.4
200	9.8	260	70.1
250	10.5	350	103.8
300	11.2	400	145.5
350	11.9	450	167.4
400	12.6	500	204.1
450	13.3	550	277.0
500	14	600	350.9
600	15.4	700	540.7

## 胶圈 (T type) Rubber Gasket



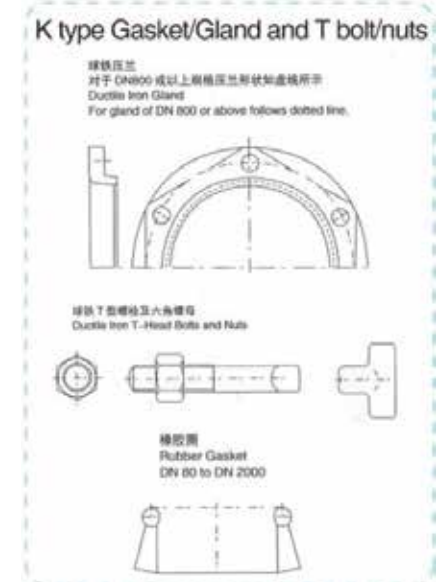
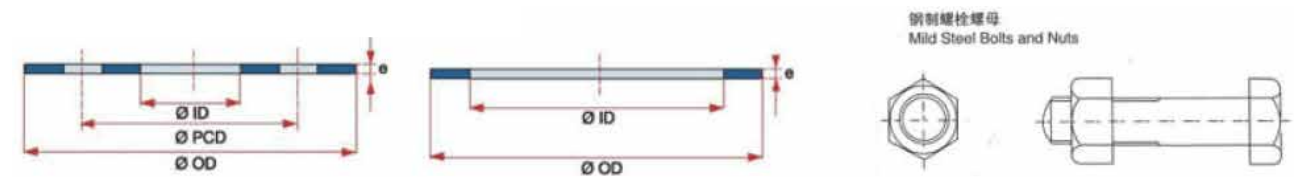
DN	a	b	c	d	e	kg
80	126	10	26	15	6.5	1.4
100	146	10	26	16	6.5	1.7
150	200	10	26	16	6.5	2.4
200	256	11	30	18	6.5	3.9
250	310	11	32	18	6.5	5.1
300	366	12	34	19.5	7	7.2
350	420	12	34	19.5	8	8.3
400	475	13	36	21	8	12
450	528	13	38	21.5	8	16
500	583	14.5	44	24	9	17
600	692	14.5	47	26	10	21
700	809	20	55	33.5	16	35
800	919	21	60	35.5	16	49
900	1026	22	65	37.5	18	62
1000	1133	23	70	39.5	18	78
1100	1242	25	74	40.0	19	87
1200	1352	27	78	43.5	20	93

## 胶圈 (A type) Rubber Gasket



DN	D	M	h1	h2	h3	N	r1	r2
80	97	14	31	12	3	4	1.7	2
100	117	14	31	12.2	3.5	4.5	1.7	2
125	143	14	32	12.2	4	5	1.9	2
150	169	14.5	32	12.2	4.5	5.5	2.1	2
200	220	15	32	13	5	6	2.3	2
250	272	15.5	33	13	5.5	6.5	2.5	2
300	323	16	33	13.3	6	7	2.7	2
350	375	16.5	34	13.3	6.5	7.5	2.9	2
400	425	17	34	13.6	7	8	3.1	2
450	476	17.5	34	14.1	7.5	8.5	3.3	2
500	527	18	36	14.4	8	9	3.5	2
600	629	19	38	15.2	8.5	9.5	3.7	2
700	731	20	40	16	9	10	3.9	2
800	834	21	42	16.8	9.5	10.5	4.1	2
900	936	22	44	17.6	10	11	4.3	2
1000	1038	23	46	18.4	10.5	11.5	1.5	2.5
1100	1142	25	50	20	11	12	4.7	2.5
1200	1242	26	53	20.2	11.5	12.5	4.9	2.5

## Flat Gasket and bolt/nut for Flange



## Flange Bolts and Nuts//T Bolts for MJ

DN	PN10 Flange		PN16 Flange		PN25 Flange		T bolt for K type	
	Size and Length	No	Size and Length	No	Size and Length	No	Size and Length	No
80	M16 x 65	8	M16 x 65	8	M16 x 65	8	M16 x 85	4
100	M16 x 65	8	M16 x 65	8	M20 x 70	8	M20 x 90	4
150	M20 x 70	8	M20 x 70	8	M24 x 80	8	M20 x 90	6
200	M20 x 70	8	M20 x 70	8	M24 x 80	12	M20 x 90	6
250	M20 x 80	12	M24 x 85	12	M27 x 90	12	M20 x 90	8
300	M20 x 80	12	M24 x 85	12	M27 x 90	16	M20 x 100	8
350	M20 x 80	16	M24 x 85	16	M30 x 110	16	M20 x 100	10
400	M24 x 85	16	M27 x 100	16	M33 x 120	16	M20 x 110	12
450	M24 x 85	20	M27 x 100	20	M33 x 120	20	M20 x 110	12
500	M24 x 85	20	M30 x 110	20	M33 x 120	20	M20 x 110	14
600	M27 x 100	20	M33 x 120	20	M36 x 140	20	M20 x 120	14
700	M27 x 100	24	M33 x 130	24	--	--	M24 x 120	16
800	M30 x 110	24	M36 x 140	24	--	--	M24 x 120	20
900	M30 x 120	28	M36 x 140	28	--	--	M30 x 130	20
1000	M33 x 130	28	M39 x 150	28	--	--	M30 x 130	20
1200	M36 x 140	32	M45 x 170	32	--	--	M30 x 140	28
1400	M39 x 150	36	M45 x 180	36	--	--	M30 x 150	28
1600	M45 x 160	40	M52 x 190	40	--	--	M30 x 150	30
1800	M45 x 160	44	M52 x 200	44	--	--	M30 x 150	34
2000	M45 x 170	48	M52 x 230	48	--	--	M30 x 160	36

## PE sleeve

Polyethylene sleeving is used to supplement the basic pipe coating (metallic zinc + bituminous paint) in certain cases of highly corrosive soils, or in the presence of stray currents. Standard: ISO 8180

DN	L (m)	Sleeve				Thickness (um)	Tie fasteners		Adhesive tape	
		Barrer		Joint			No./pipe	Length/pipe	No./pipe	Length/pipe
		l	Lf	l	Lj					
80	6	0.315	5.7	0.315	0.7	200	4	2	4	1.6
100	6	0.315	5.7	0.315	0.7	200	4	2.3	4	1.8
150	6	0.4	5.7	0.4	0.7	200	4	2.9	4	2.6
200	6	0.56	5.7	0.56	0.7	200	4	3.6	4	3.4
250	6	0.71	5.7	0.71	0.7	200	4	4.2	4	4.4
300	6	0.71	5.7	0.71	0.7	200	4	4.9	4	5.2
350	6	0.9	5.7	0.9	0.7	200	4	5.6	4	6
400	6	0.9	5.7	0.9	0.7	200	4	6.2	4	6.8
500	6	1.12	5.7	1.12	0.7	200	4	8.3	4	8.4
600	6	1.25	5.7	1.25	0.7	200	4	9.6	4	10
700	6	1.6	6.7	1.6	0.8	200	5	13.6	4	11.6
800	6	1.8	6.7	1.8	0.8	200	5	15.3	4	13.2



# CERTIFICATE

## JUDBERD MACHINERY



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