



Ductile iron fittings, accessories

Coupling and flange adaptor

For ductile iron pipe/PE/PVC/steel pipe

Dismantling joint

Saddle for ductile iron/PE/PVC/steel pipe

Ductile iron valves:

BS5163 gate valve/CNS gate valve/Ball valve/Air valve

Weld on flange or screwed on flange

Rose strainer

Pillar hydrant

Manhole cover

Distributed By:

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VALVFIT

PRODUCTION MANUAL

QINGDAO VALVES & PIPE FITTINGS CO.,LTD.

Production Manual

产品选型手册



青岛沃丰阀门管件有限公司
QINGDAO VALVES & PIPE FITTINGS CO.,LTD



COMPANY » » INTRODUCTION

Qingdao Valves&Pipe Fittings Co., Ltd is a professional and experiential manufacturer which mainly produces Ductile cast iron pipe fittings, Fittings accessories such as couplings and flange adaptors,dismantling joint,saddles ,repair clamps ,strainers and valves in Qingdao China.

The standards mainly including ISO2531/BSEN545/BSEN598/BSEN12842 for fittings and accessories And BS and DIN standards for valves and strainers .Besides we also can produce Pillar Hydrant ,Surface box and other OEM Casting Products. All the goods are widely used in City water supply , irrigation systems and sewage pipe networks

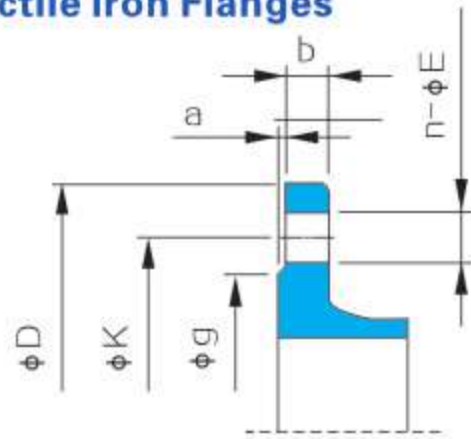
“VALVFIT” products are exported to more than 70 countries in South East Asia, European, South American, Middle East and Africa. The registered trade mark “VALVFIT” brand is a well-known and famous brand in China .

“VALVFIT” production process is strictly according to ISO9001:2008 Quality Management Certification System to do the R&D, casting, machining, assembling and sales. This can make sure we can provide the best quality product and timely delivery.

Warmly welcome you from all over the world to visit our company and establish business relationship!

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- Part5.** Joint for DI Fittings
- Part6.** Ductile Iron Valves

Part 1. DI Fittings for BS EN545/ISO2531 Standard
● Dimensions of Ductile Iron Flanges


PN10 Flange

(Unit:mm)

DN	Dimensions					Bolts			Mass (Kg)
	D	K	g	b	a	Size	E	n	
40	150	110	84	16	3	M16	19	4	1.7
50	165	125	99	16	3	M16	19	4	2.2
60	175	135	108	16	3	M16	19	4	2.4
65	185	145	118	16	3	M16	19	4	2.7
80	200	160	132	16	3	M16	19	8	2.9
100	220	180	156	16	3	M16	19	8	3.3
125	250	210	184	16	3	M16	19	8	4
150	285	240	211	16	3	M20	23	8	4.9
200	340	295	266	17	3	M20	23	8	6.8
250	400	350	319	19	3	M20	23	12	9.6
300	455	400	370	20.5	4	M20	23	12	12.8
350	505	460	429	20.5	4	M20	23	16	14.1
400	565	515	480	20.5	4	M24	28	16	16.3
450	615	565	527	21.5	4	M24	28	20	20.2
500	670	620	582	22.5	4	M24	28	20	21.8
600	780	725	682	25	5	M27	31	20	30.8
700	895	840	794	27.5	5	M27	31	24	40.5
800	1015	950	901	30	5	M30	34	24	54.8
900	1115	1050	1001	32.5	5	M30	34	28	64.3
1000	1230	1160	1112	35	5	M33	37	28	81.4
1100	1340	1270	1215	37.5	5	M33	37	32	112.8
1200	1455	1380	1328	40	5	M36	40	32	120.9
1400	1675	1590	1530	41	5	M39	43	36	147.8
1500	1785	1700	1640	42.5	5	M39	43	36	201.4
1600	1915	1820	1750	44	5	M45	49	40	206.4
1800	2115	2020	1950	47	5	M45	49	44	236.3
2000	2325	2230	2150	50	5	M45	49	48	279.4
2200	2550	2440	2370	53	6	M52	56	52	345.6
2400	2750	2650	2570	56	6	M52	56	56	398.8
2600	2960	2850	2780	59	6	M52	56	60	436.9

PN16 Flange

(Unit:mm)

DN	Dimensions					Bolts			Mass (Kg)
	D	K	g	b	a	Size	E	n	
40	150	110	84	16	3	M16	19	4	1.7
50	165	125	99	16	3	M16	19	4	2.1
60	175	135	108	16	3	M16	19	4	2.2
65	185	145	118	16	3	M16	19	4	2.5
80	200	160	132	16	3	M16	19	8	2.9
100	220	180	156	16	3	M16	19	8	3.3
125	250	210	184	16	3	M16	19	8	4
150	285	240	211	16	3	M20	23	8	4.9
200	340	295	266	17	3	M20	23	12	6.6
250	400	355	319	19	3	M24	28	12	9.2
300	455	410	370	20.5	4	M24	28	12	12.4
350	520	470	429	22.5	4	M24	28	16	17.2
400	580	525	480	24	4	M27	31	16	21.9
450	640	585	544	26	4	M27	31	20	28.1
500	715	650	609	27.5	4	M30	34	20	37
600	840	770	720	31	5	M33	37	20	57.3
700	910	840	794	34.5	5	M33	37	24	58
800	1025	950	901	38	5	M36	40	24	74
900	1125	1050	1001	41.5	5	M36	40	28	88.2
1000	1255	1170	1112	45	5	M39	43	28	122.9
1100	1355	1270	1215	48.5	5	M39	43	32	147.8
1200	1485	1390	1328	52	5	M45	49	32	185.2
1400	1685	1590	1530	55	5	M45	49	36	215.9
1500	1820	1710	1640	57.5	5	M52	56	36	289.3
1600	1930	1820	1750	60	5	M52	56	40	308.4
1800	2130	2020	1950	65	5	M52	56	44	362.2
2000	2345	2230	2150	70	5	M56	62	48	432.2
2200	2555	2440	2370	75	6	M56	62	52	512.3
2400	2765	2650	2570	80	6	M56	62	56	601
2600	2965	2850	2780	85	6	M56	62	60	672

PN25 Flange

(Unit:mm)

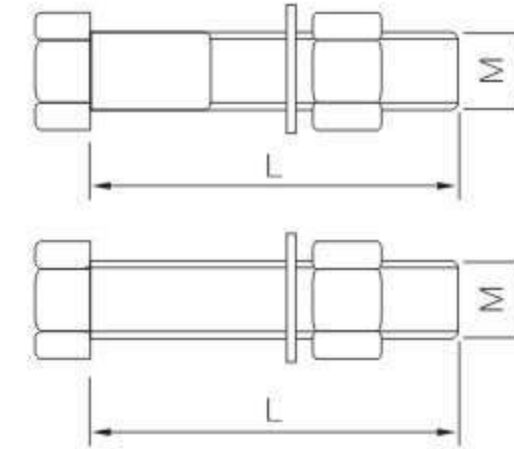
DN	Dimensions					Bolts			Mass (Kg)
	D	K	g	b	a	Size	E	n	
40	150	110	84	16	3	M16	19	4	1.7
50	165	125	99	16	3	M16	19	4	2.1
60	175	135	108	16	3	M16	19	8	2.2
65	185	145	118	16	3	M16	19	8	2.5
80	200	160	132	16	3	M16	19	8	2.9
100	235	190	156	16	3	M20	23	8	3.8
125	270	220	184	16	3	M24	28	8	4.6

DN	Dimensions					Bolts			Mass (Kg)
	D	K	g	b	a	Size	E	n	
150	300	250	211	17	3	M24	28	8	5.9
200	360	310	274	19	3	M24	28	12	8.7
250	425	370	330	21.5	3	M27	31	12	13.1
300	485	430	380	23.5	4	M27	31	16	18
350	555	490	448	26	4	M30	34	16	25.5
400	620	550	503	28	4	M33	37	16	33.2
450	670	600	548	30.5	4	M33	37	20	39
500	730	660	609	32.5	4	M33	37	20	48.7
600	845	770	720	37	5	M36	41	20	71.5
700	960	875	820	41.5	5	M39	44	24	90.3
800	1085	990	928	46	5	M45	50	24	123.2
900	1185	1090	1028	50.5	5	M45	50	28	148.6
1000	1320	1210	1140	55	5	M52	57	28	200.7
1100	1420	1310	1240	59.5	5	M52	57	32	
1200	1530	1420	1350	64	5	M52	57	32	284.7
1400	1755	1640	1560	69	5	M56	62	36	368.1
1500	1865	1750	1678	72.5	5	M56	62	36	
1600	1975	1860	1780	76	5	M56	62	40	485.5
1800	2195	2070	1985	83	5	M64	70	44	601.9
2000	2425	2300	2210	90	5	M64	70	48	784.9

PN40 Flange

(Unit:mm)

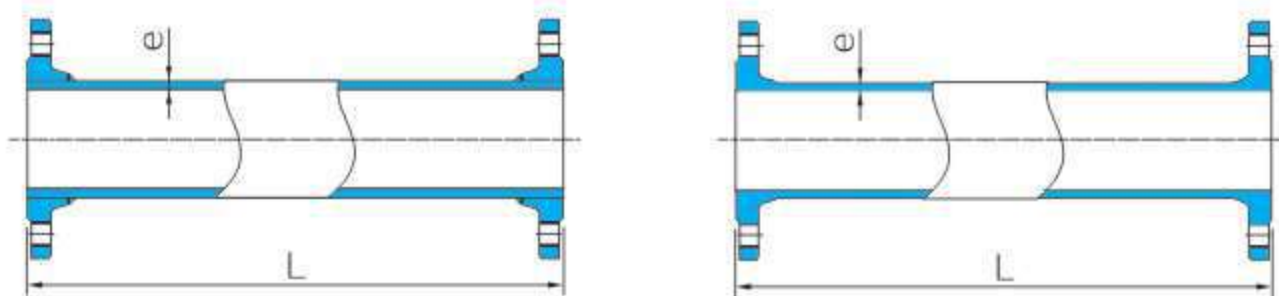
DN	Dimensions					Bolts			Mass (Kg)
	D	K	g	b	a	Size	E	n	
40	150	110	84	16	3	M16	19	4	1.7
50	165	125	99	16	3	M16	19	4	2.1
60	175	135	108	16	3	M16	19	8	2.2
65	185	145	118	16	3	M16	19	8	2.5
80	200	160	132	16	3	M16	19	8	2.9
100	235	190	156	16	3	M20	23	8	3.8
125	270	220	184	20.5	3	M24	28	8	5.9
150	300	250	211	23	3	M24	28	8	8
200	375	320	284	27	3	M27	31	12	14
250	450	385	345	31.5	3	M30	34	12	23.2
300	515	450	409	35.5	4	M30	34	16	33.5
350	580	510	465	40	4	M33	37	16	46.7
400	660	585	535	44	4	M36	41	16	66.9
450	685	610	560	46	4	M36	41	20	76.2
500	755	670	615	48	4	M39	44	20	82.3
600	890	795	735	53	5	M45	50	20	124.1

Bolts and Nuts for DI Flange


(Unit:mm)

DN	PN10		PN16		PN25	
	M×L	N	M×L	N	M×L	N
50	M16×65	4	M16×65	4	M16×65	4
65	M16×65	4	M16×65	4	M16×65	8
80	M16×65	8	M16×65	8	M16×65	8
100	M16×65	8	M16×65	8	M20×70	8
150	M20×70	8	M20×70	8	M24×80	8
200	M20×70	8	M20×70	12	M24×80	12
250	M20×80	12	M24×85	12	M27×90	12
300	M20×80	12	M24×85	12	M27×90	16
350	M20×80	16	M24×85	16	M30×110	16
400	M24×85	16	M27×100	16	M33×120	16
450	M24×85	20	M27×100	20	M33×120	20
500	M24×85	20	M30×110	20	M33×120	20
600	M27×100	20	M33×120	20	M36×140	20
700	M27×100	24	M33×120	24	M36×150	24
800	M30×110	24	M36×140	24	M45×170	24
900	M30×120	28	M36×140	28	-	-
1000	M33×130	28	M39×150	28	-	-
1100	M33×130	32	M39×160	32	-	-
1200	M36×140	32	M45×170	32	-	-
1400	M39×150	36	M45×180	36	-	-
1500	M39×150	36	M52×190	36	-	-
1600	M45×160	40	M52×190	40	-	-
1800	M45×160	44	M52×200	44	-	-
2000	M45×170	48	M56×230	48	-	-
2100	M45×170	52	M56×230	52	-	-
2200	M52×190	52	M56×240	52	-	-
2400	M52×200	56	M56×240	56	-	-
2600	M52×200	60	M56×250	60	-	-

● Mass for DI Pipes



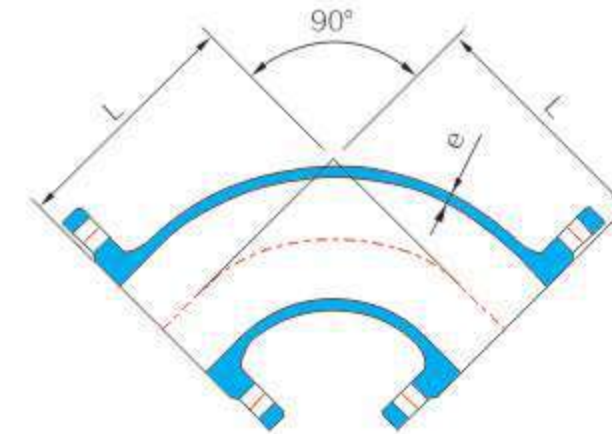
Screw on flange pipe or weld on flange pipe

Integral flange pipe

(Unit:mm)

	Barrel				Cast-on flange			Screwed/Slip-on Flange				Puddle Flange	Weight of socket	Weight of spigot
	K=9		K=12		PN10	PN16	PN25	PN10	PN16	PN25	PN40			
	e/mm	kg/m	e/mm	kg/m	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
40	6	6.6	7	7.6	-	-	-	-	-	-	-	-	1.8	-
50	6	8	7	9.2	-	-	-	-	-	-	-	-	2.1	-
60	6	9.4	7	10.9	-	-	-	-	-	-	-	-	2.4	-
65	6	10.1	7	11.7	-	-	-	-	-	-	-	-	2.5	-
80	6	12.2	7	14.1	2.9	2.9	2.9	3.6	3.6	3.5	3.5	2.9	3.2	2.63
100	6.1	15.1	7.2	17.7	3.3	3.3	3.8	4.2	4.2	4.5	4.5	3.3	4.3	3.17
125	6	18.3	7.5	22.7	4	4	4.6	5	5	5.6	5.6	4	5.6	4.1
150	6	22.8	7.8	28	4.9	4.9	5.9	6.3	6.3	7.1	9.2	5.1	7.1	6.14
200	6.3	30.6	8.4	39.7	6.9	6.6	8.7	8.6	8.6	10.4	15.7	6.9	10.3	10
250	6.8	40.2	9	52.8	9.6	9.2	13.1	12	11.8	15.3	25.4	9.8	14.2	12.63
300	7.2	50.8	9.6	67.3	12.8	12.4	18	16.8	16.8	20.8	36.3	12.6	18.6	15.54
350	7.7	63.2	10.2	83.1	14.1	17.2	25.5	23	25.5	29	-	17.4	23.7	18.73
400	8.1	75.5	10.8	100	16.3	21.9	33.2	26.5	31	37.4	-	22.2	29.3	22.14
450	8.6	89.8	11.4	118.3	20.2	28.1	39	30.3	33.2	44.2	-	28.1	36.2	25.82
500	9	104.3	12	138.2	21.8	37	48.7	41	54	54.5	-	37.7	42.8	29.82
600	9.9	137.3	13.2	181.8	30.8	57.3	71.5	56	79.8	79.1	-	57.4	59.3	41.6
700	10.8	173.9	14.4	230.8	40.5	55.6	-	72.5	84.2	-	-	58	79.1	51.46
800	11.7	215.2	15.6	285.5	54.8	74	-	102	117	-	-	77	102.6	62.48
900	12.6	260.2	16.8	345.4	64.3	88.2	-	118.5	137.5	-	-	92	129.9	91.91
1000	13.5	309.3	18	410.6	81.4	122.9	-	135	169.4	-	-	127.4	161.3	108.33
1100	14.4	362.8	19.2	481.7	112.8	147.8	-	-	-	-	-	-	194.7	-
1200	15.3	420.1	20.4	557.8	120.9	185.2	-	180	235	-	-	192.9	237.7	150.37
1400	17.1	547.2	22.8	726.8	147.8	215.2	-	178.2	246.3	-	-	231.5	385.3	-
1600	18.9	690.3	25.2	916.9	206.4	308.4	-	244.7	346.7	-	-	331.1	-	-
1800	20.7	850.1	27.6	1129.3	236.3	362.2	-	283.5	409.4	-	-	393.7	-	-
2000	22.5	1026.3	30	1363.4	279.4	432.2	-	336.4	489.2	-	-	474.5	-	-

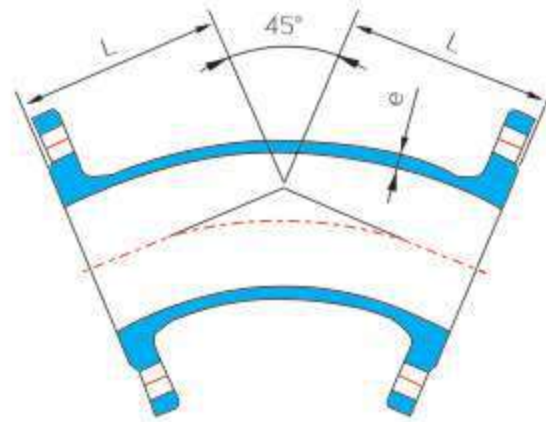
● Double Flange 90° Bend



(Unit:mm)

DN	L	e	Mass (kg)			
			PN10	PN16	PN25	PN40
40	140	7	5.7	5.7	5.7	5.7
50	150	7	7.1	7.1	7.1	7.1
60	160	7	7.9	7.9	7.9	7.9
65	165	7	8.8	8.8	8.8	8.8
80	165	7	9.6	9.6	9.6	9.6
100	180	7.2	11.9	11.9	12	12.9
125	200	7.5	15.6	15.6	16.9	19.4
150	220	7.8	20	20	22	26.2
200	260	8.4	31	30.5	34.5	45.3
250	350	9	50	49.5	57	77.5
300	400	9.6	70	70	81	112.2
350	450	10.2	90	96	113	155
400	500	10.8	116	127	149	217
450	550	11.4	147	163	184	259.2
500	600	12	181	211	235	301.6
600	700	13.2	272	325	353	458.6
700	800	14.4	386	416	479	-
800	900	15.6	533	572	671	-
900	1000	16.8	698	745	866	-
1000	1100	18	907	990	1146	-
1100	1200	19.2	1164	1234	-	-
1200	1300	20.4	1452	1562	1767	-
1400	1350	22.8	1948	2062	2366.4	-
1500	1400	24	2273	2449	-	-
1600	1450	25.2	2663	2841	3195.2	-
1800	1500	27.6	3348	3572	4051.4	-

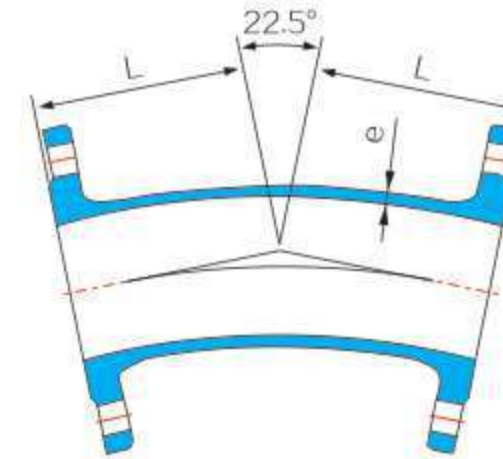
● Double Flange 45° Bend



(Unit:mm)

DN	L	e	Mass (kg)			
			PN10	PN16	PN25	PN40
40	140	7	6	6	6	6
50	150	7	7.3	7.3	7.3	7.3
60	160	7	8.2	8.2	8.2	8.2
65	165	7	9.2	9.2	9.2	9.2
80	130	7	9.5	9.5	9.5	9.5
100	140	7.2	11.3	11.3	12.4	12.3
125	150	7.5	14.6	14.6	15.9	18.4
150	160	7.8	18.5	18.5	20.5	24.7
200	180	8.4	27.5	27.5	31	42.3
250	350	9	55	54	62	82
300	400	9.6	78	77	88	119.2
350	298	10.2	76	83	89	142
400	324	10.8	96	107	129	197
450	350	11.4	120	135	157	231.2
500	375	12	145	175	198	265.6
600	426	13.2	212	266	294	399.6
700	478	14.4	296	326	389	-
800	529	15.6	403	442	541	-
900	581	16.8	519	567	688	-
1000	632	18	668	751	907	-
1100	694	19.2	857	927	-	-
1200	750	20.4	1050	1178	1377	-
1400	775	22.8	1388	1524	1828.4	-
1500	810	24	1677	1853	-	-
1600	845	25.2	1915	2119	2473.2	-
1800	910	27.6	2465	2717	3196.4	-
2000	980	30	3149	3455	4160.4	-
2100	850	31.2	3204	3532	-	-
2200	880	32.4	3446	3804	-	-
2400	945	34.8	4277	4719	-	-
2600	1005	37.2	5175	5695	-	-

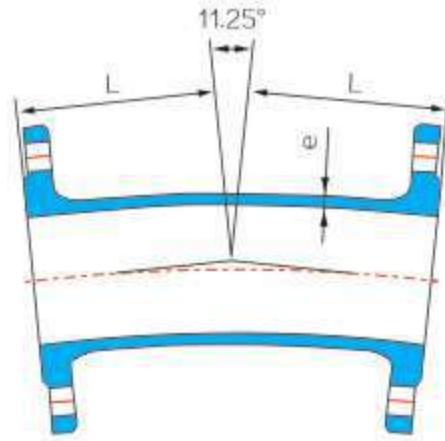
● Double Flange 22.5° Bend



(Unit:mm)

DN	L	e	Mass (kg)			
			PN10	PN16	PN25	PN40
40	94	7	5.7	5.7	5.7	5.7
50	104	7	7.1	7.1	7.1	7.1
60	114	7	7.9	7.9	7.9	7.9
65	119	7	8.8	8.8	8.8	8.4
80	105	7	9.4	9.4	9.4	9.4
100	110	7.2	11.5	11.5	13.5	12.5
125	105	7.5	14.7	14.7	15.9	18.5
150	109	7.8	18.7	18.7	19.7	24.9
200	131	8.4	27.9	28	31.6	42.8
250	190	9	55.9	55.2	62.8	83.2
300	210	9.6	78.8	77.5	88	119.7
350	210	10.2	77.3	83.6	99.9	142.6
400	239	10.8	96.7	108.4	131	198.4
450	349	11.4	122	138	160	234.2
500	375	12	146	176.6	199.8	267.2
600	426	13.2	215.2	270.4	292	404
700	476	14.4	299.4	329.2	397	-
800	529	15.6	408.4	447	552	-
900	581	16.8	525.6	577.2	702	-
1000	632	18	677	760	925	-
1100	683	19.2	877	947	-	-
1200	735	20.4	1053.1	1182.6	1397	-
1400	835	22.8	1497.2	1632.8	1937.2	-
1500	886	24	1838	2014	-	-
1600	940	25.2	2119.2	2323.6	2677.8	-
1800	480	27.6	1548.8	1864	2343.4	-
2000	520	30	1966.8	2272.4	2977.8	-
2100	540	31.2	2371	2700	-	-
2200	560	32.4	2484.8	2818.8	-	-
2400	600	34.8	3023.2	3247.8	-	-
2600	640	37.2	3645.8	4116.4	-	-

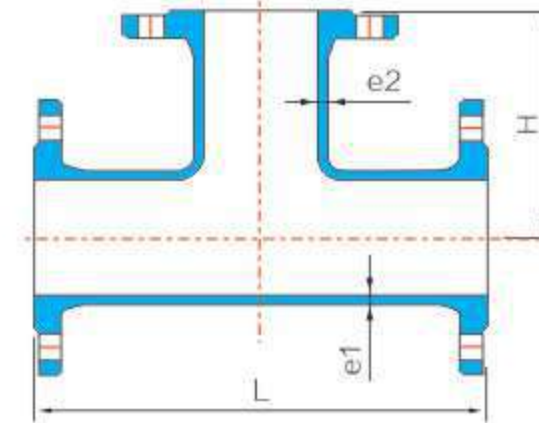
● Double Flange 11.25° Bend



(Unit:mm)

DN	L	e	Mass (kg)			
			PN10	PN16	PN25	PN40
40	99	7	6	6	6	6
50	109	7	7.3	7.3	7.3	7.3
60	119	7	8.2	8.2	8.2	8.2
65	124	7	9.2	9.2	9.2	9.2
80	113	7	9.5	9.5	9.5	9.5
100	115	7.2	11.5	11.5	12.5	13.5
125	111	7.5	14.8	14.8	16	19.8
150	113	7.8	18.7	18.7	20.6	26.8
200	132	8.4	27.9	27.9	31.5	46.3
250	165	9	55.9	55.2	63.3	91.3
300	175	9.6	78	78	88.5	130.7
350	191	10.2	77.8	83.6	100.4	159.4
400	205	10.8	123	108.4	131	221
450	349	11.4	147	139	160	256.2
500	375	12	215.2	177.6	200.8	291.4
600	426	13.2	301.4	273.2	296.6	430.2
700	478	14.4	411.4	331.2	399	-
800	529	15.6	528.6	449	554	-
900	581	16.8	528.6	576.4	705	-
1000	632	18	681	764	929	-
1100	683	19.2	882	952	1204	-
1200	735	20.4	1059.8	1188.6	1403	-
1400	835	22.8	1506.2	1611.6	1906	-
1500	885	24	1849	2025	-	-
1600	940	25.2	2132.2	2336.6	2690.8	-
1800	345	27.6	1250.6	1279	1758.4	-
2000	375	30	1579.8	1885.4	2590.8	-
2100	390	31.2	1939	2267	-	-
2200	405	32.4	1995.8	2329.8	-	-
2400	435	34.8	2420.2	2824.8	-	-
2600	485	37.2	2899.8	3369.4	-	-

● All Flanged Tee



(Unit:mm)

Nominal Diameter		L	H	e1	e2	Mass(kg)			
DN	dn					PN10	PN16	PN25	PN40
40	40	280	140	7	7	8.7	8.7	8.7	8.7
50	40	300	150	7	7	10.3	10.3	10.3	10.3
	50	300	150	7	7	11.0	11	11	11
65	40	330	150	7	7	12.6	12.6	12.6	12.6
	50	330	160	7	7	13.2	13.2	13.2	13.2
	65	330	165	7	7	14.1	14.1	14.1	14.1
80	40	310	135	7	7	14.2	14.2	14.2	14.2
	50	310	145	7	7	14.9	14.9	14.9	14.9
	65	310	160	7	7	15.3	15.3	15.3	15.3
	80	330	165	7	7	15.8	15.8	15.8	15.8
100	50	320	165	7.2	7	16.9	16.9	17.9	17.9
	65	320	170	7.2	7	17.4	17.4	17.4	18.4
	80	360	175	7.2	7	18.6	18.6	19.6	19.6
	100	360	180	7.2	7.2	19.4	19.4	21	20.9
125	50	330	180	7.5	7	20.7	20.7	21.9	24.5
	65	330	185	7.5	7	21.2	21.2	22.4	25
	80	400	190	7.5	7	23.0	23	24.2	26.8
	100	400	195	7.5	7.2	24.0	24	26.2	28.3
	125	400	200	7.5	7.5	25.5	25.5	27.3	31.2
150	50	340	180	7.8	7	25.3	25.3	27.3	31.5
	65	340	190	7.8	7	26.0	26	28	32.2
	80	440	205	7.8	7	29.0	29	31	35.2
	100	440	210	7.8	7.2	30.0	30	32.5	36.7
	150	440	220	7.8	7.8	33.5	33.5	37.5	42.8
200	50	365	205	8.4	7	35.6	35.2	39.2	50
	65	365	215	8.4	7	36.3	35.9	39.9	50.7
	80	520	235	8.4	7	43.0	42.5	46.5	57.3
	100	520	240	8.4	7.2	44.0	43.5	48	58.8
	150	520	250	8.4	7.8	47.0	47	52	64.9
	200	520	260	8.4	8.4	51.0	50.5	56.5	72.7

(Unit:mm)

Nominal Diameter		L	H	e1	e2	Mass(kg)			
DN	dn					PN10	PN16	PN25	PN40
250	80	700	270	9	7	49.7	49.3	56.7	77.3
	100	700	275	9	7.2	68.5	68	76	96.5
	150	700	325	9	7.8	73.5	73	81	104.1
	200	700	325	9	8.4	77.5	76.5	86	111.9
	250	700	350	9	9	84.0	83	93.5	125
300	80	800	295	9.6	7	93.5	93	103.5	135.2
	100	800	300	9.6	7.2	94.5	93.5	105	136.2
	150	800	350	9.6	7.8	99.0	98.5	109	143.8
	200	800	350	9.6	8.4	103.0	102	115	151.6
	250	800	375	9.6	9	111.0	110	123	166.2
350	80	850	325	10.2	7	104.0	104	120	163
	100	850	325	10.2	7.2	117.0	123	140	182.5
	150	850	325	10.2	7.8	121.0	126	144	188.1
	200	850	325	10.2	8.4	122.0	129	147	195.4
	250	850	325	10.2	9	128.0	134	154	207
400	80	900	350	10.8	7	145.0	154	176	244
	100	900	350	10.8	7.2	146.0	155	178	245.5
	150	900	350	10.8	7.8	149.0	158	181	251.1
	200	900	350	10.8	8.4	152.0	161	185	258.4
	250	900	350	10.8	9	161.0	175	198	279
450	80	950	375	11.4	7.2	177.0	193	215	289.7
	100	950	375	11.4	7.8	180.0	196	219	295.3
	150	950	375	11.4	8.4	183.0	199	222	302.6
	200	950	375	11.4	9	194.0	210	234	320.2
	250	950	475	11.4	9.6	199.0	215	242	332.3
500	80	1000	400	12	7.2	215.0	241	265	332.1
	100	1000	400	12	7.8	218.0	245	268	338.7
	150	1000	400	12	8.4	221.0	248	277	346
	200	1000	400	12	9	228.0	258	289	362.6
	250	1000	500	12	9.6	237.0	264	297	375.7
600	80	1000	500	12	10.2	239.0	268	303	388.1
	100	1000	500	12	10.8	248.0	279	314	414.6
	150	1000	500	12	11.4	249.0	284	322	422.7
	200	1000	500	12	12	252.0	297	338	432.9
	250	1000	500	12	12	252.0	297	338	432.9

(Unit:mm)

Nominal Diameter		L	H	e1	e2	Mass(kg)			
DN	dn					PN10	PN16	PN25	PN40
600	150	1100	450	13.2	7.8	309.0	356	381	492.7
	200	1100	450	13.2	8.4	311.0	358	388	499
	250	1100	450	13.2	9	317.0	360	392	507.6
	300	1100	550	13.2	9.6	328.0	375	404	529.7
	350	1100	550	13.2	10.2	329.0	380	413	543.1
	400	1100	550	13.2	10.8	338.0	387	427	565.6
	450	1100	550	13.2	11.4	338.0	417	448	598.7
	500	1100	550	13.2	12	349.0	420	464	598.9
	600	1100	550	13.2	13.2	355.0	434	477	634.4
	700	100	540	510	14.4	7.2	235.0	295	-
150		595	515	14.4	7.8	255.0	296	-	-
200		650	525	14.4	8.4	281.0	304	-	-
250		705	530	14.4	9	289.0	320	-	-
300		760	540	14.4	9.6	319.0	342	-	-
400		870	555	14.4	10.8	358.0	386	-	-
500		980	570	14.4	12	442.0	481	-	-
600		1200	585	14.4	13.2	476.0	523	-	-
700		1200	600	14.4	14.4	499.0	534	-	-
800		100	580	570	15.6	7.2	345.0	383	-
	150	585	575	15.6	7.8	349.0	387	-	-
	200	690	585	15.6	8.4	368.0	397	-	-
	300	800	600	15.6	9.6	413.0	443	-	-
	400	910	615	15.6	10.8	459.0	493	-	-
	500	1020	630	15.6	12	561.0	599	-	-
	600	1350	645	15.6	13.2	633.0	687	-	-
	700	1350	660	15.6	14.4	663.0	711	-	-
	800	1350	675	15.6	15.6	685.0	730	-	-
	900	100	620	630	16.8	7.2	428.0	476	-
150		675	635	16.8	7.8	432.0	480	-	-
200		730	645	16.8	8.4	454.0	492	-	-
300		840	660	16.8	9.6	523.0	569	-	-
400		950	675	16.8	10.8	561.0	604	-	-
500		1060	690	16.8	12	726.0	784	-	-
600		1500	705	16.8	13.2	810.0	872	-	-
700		1500	720	16.8	14.4	843.0	901	-	-
800		1500	735	16.8	15.6	860.0	913	-	-
900		1500	750	16.8	16.8	887.0	944	-	-
1000	100	660	690	18	7.2	524.0	572	-	-
	150	715	695	18	7.8	534.0	582	-	-
	200	770	705	18	8.4	570.0	638	-	-
	300	880	720	18	9.6	651.0	739	-	-
	400	990	735	18	10.8	694.0	767	-	-
	500	1100	750	18	12	955.0	1007	-	-
600	1650	765	18	13.2	1036.0	1129	-	-	

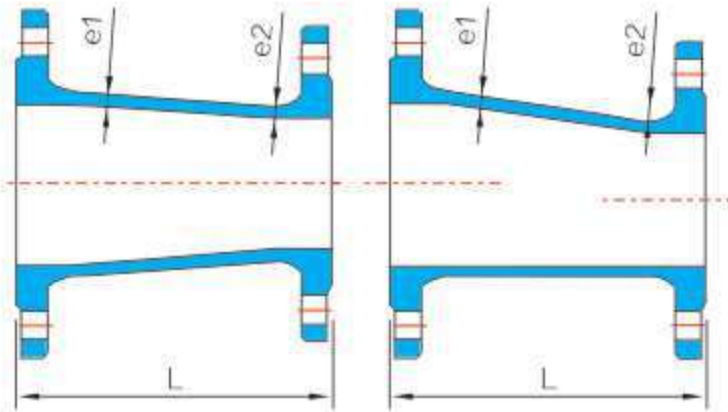
(Unit:mm)

Nominal Diameter		L	H	e1	e2	Mass(kg)			
DN	dn					PN10	PN16	PN25	PN40
1000	700	1650	780	18	14.4	1067.0	1152	-	-
	800	1650	795	18	15.6	1085.0	1168	-	-
	900	1650	810	18	16.8	1095.0	1219	-	-
	1000	1650	825	18	18	1150.0	1253	-	-
1100	400	1030	795	19.2	10.8	839.0	913	-	-
	600	1250	825	19.2	13.2	990.0	1083	-	-
	800	1470	855	19.2	15.6	1160.0	1245	-	-
	1000	1690	885	19.2	18	1345.0	1450	-	-
	1100	1800	900	19.2	19.2	1450.0	1555	-	-
1200	100	660	810	20.4	7.2	996.0	1082	-	-
	150	715	815	20.4	7.8	998.0	1084	-	-
	200	775	825	20.4	8.4	1000.0	1086	-	-
	300	890	840	20.4	9.6	1004.0	1160	-	-
	400	1070	855	20.4	10.8	1008.0	1122	-	-
	500	1125	870	20.4	12	1095.0	1250	-	-
	600	1290	885	20.4	13.2	1178.0	1312	-	-
	700	1355	900	20.4	14.4	1279.0	1423	-	-
	800	1510	915	20.4	15.6	1367.0	1492	-	-
	900	1585	930	20.4	16.8	1427.0	1662	-	-
	1000	1730	945	20.4	18	1570.0	1714	-	-
	1200	1950	975	20.4	20.4	1806.0	1970	-	-
1400	100	970	905	22.8	7.2	1227.0	1363	-	-
	200	1085	920	22.8	8.4	1231.0	1367	-	-
	400	1315	950	22.8	10.8	1514.0	1656	-	-
	600	1320	980	22.8	13.2	1527.0	1665	-	-
	800	1540	1010	22.8	15.6	1755.0	1884	-	-
	1000	1760	1040	22.8	18	1995.0	2143	-	-
	1200	1980	1070	22.8	20.4	2262.0	2413	-	-
	1400	2200	1100	22.8	22.8	2445.0	2715	-	-
1600	100	1020	1015	25.2	7.2	1874	2078	-	-
	200	1135	1030	25.2	8.4	1880	2084	-	-
	400	1370	1060	25.2	10.8	2000	2210	-	-
	600	1380	1090	25.2	13.2	2019	2221	-	-
	800	1600	1120	25.2	15.6	2294	2487	-	-
	1000	1820	1150	25.2	18	2578	2791	-	-
	1200	2040	1180	25.2	20.4	2888	3122	-	-
	1400	2260	1210	25.2	22.8	3208	3444	-	-
	1600	2480	1240	25.2	25.2	3586	3854	-	-
1800	100	1075	1125	27.6	7.2	2348	2600	-	-
	200	1190	1140	27.6	8.4	2350	2602	-	-
	400	1420	1170	27.6	10.8	2474	2735	-	-
	600	1440	1200	27.6	13.2	2521	2868	-	-
	800	1660	1230	27.6	15.6	2848	3087	-	-
	1000	1880	1260	27.6	18	3184	3442	-	-

(Unit:mm)

Nominal Diameter		L	H	e1	e2	Mass(kg)			
DN	dn					PN10	PN16	PN25	PN40
1800	1200	2100	1290	27.6	20.4	3543	3822	-	-
	1400	2320	1320	27.6	22.8	3910	4190	-	-
	1600	2540	1350	27.6	25.2	4328	4641	-	-
	1800	2760	1380	27.6	27.6	4750	5086	-	-
2000	200	1235	1250	30	8.4	2940	3246	-	-
	400	1470	1280	30	10.8	3002	3314	-	-
	600	1500	1310	30	13.2	319	3419	-	-
	800	1720	1340	30	15.6	3505	3796	-	-
	1000	1940	1370	30	18	3898	4209	-	-
	1200	2160	140	30	20.4	4314	4644	-	-
	1400	2380	1430	30	22.8	4733	5066	-	-
	1600	2600	1460	30	25.2	5202	5567	-	-
	1800	2820	1490	30	27.6	5680	6055	-	-
	2000	3040	1520	30	30	6185	6599	-	-
2200	600	1560	1420	32.4	13.2	3975	4334	-	-
	800	1780	1450	32.4	15.6	4298	4654	-	-
	1000	2000	1480	32.4	18	4753	5128	-	-
	1200	2220	1510	32.4	20.4	5026	5413	-	-
	1400	2440	1540	32.4	22.8	5709	6106	-	-
	1600	2660	1570	32.4	25.2	6234	6664	-	-
	1800	2880	1600	32.4	27.6	6474	6934	-	-
	2000	3100	1630	32.4	30	7316	7795	-	-
	2200	3320	1660	32.4	32.4	7954	8464	-	-
	2400	600	1620	1530	34.8	13.2	4418	4849	-
800		1840	1560	34.8	15.6	5200	5671	-	-
1000		2060	1590	34.8	18	5721	6211	-	-
1200		2280	1620	34.8	20.4	5963	6432	-	-
1400		2500	1650	34.8	22.8	6804	7317	-	-
1600		2720	1680	34.8	25.2	7392	7937	-	-
1800		2940	1710	34.8	27.6	7614	8145	-	-
2000		3160	1740	34.8	30	8591	9185	-	-
2200		3380	1770	34.8	32.4	9275	9901	-	-
2400		3600	1800	34.8	34.8	10031	10715	-	-
2600	600	1680	1640	37.2	13.2	5214	5711	-	-
	800	1900	1670	37.2	15.6	6076	6596	-	-
	1000	2120	1700	37.2	18	6673	7213	-	-
	1200	2340	1730	37.2	20.4	7289	7850	-	-
	1400	2560	1760	37.2	22.8	7585	8123	-	-
	1600	2780	1790	37.2	25.2	8564	9159	-	-
	1800	3000	1820	37.2	27.6	9213	9831	-	-
	2000	3220	1850	37.2	30	9505	10128	-	-
	2200	3440	1880	37.2	32.4	10647	11323	-	-
	2400	3660	1910	37.2	34.8	11455	12188	-	-
2600	3880	1940	37.2	37.2	12230	12988	-	-	

● Double Flange Taper



(Unit:mm)

Nominal Diameter		L	e1	e2	Mass(kg)			
DN	dn				PN10	PN16	PN25	PN40
50	40	150	7	7	5.4	5.4	5.4	5.4
	40	160	7	7	6.5	6.5	6.5	6.5
65	50	200	7	7	7.3	7.3	7.3	7.3
	40	200	7	7	7.4	7.4	7.4	7.4
80	50	200	7	7	8.0	8.0	8.0	8
	65	200	7	7	8.8	8.8	8.8	8.8
	50	200	7.2	7	8.7	8.7	8.7	9.2
100	65	200	7.2	7	9.3	9.3	9.3	9.8
	80	200	7.2	7	9.5	9.5	9.8	10
	65	200	7.5	7	11.8	11.8	11.8	13.7
125	80	400	7.5	7	15.2	15.2	16.2	17.1
	100	300	7.5	7.2	15.5	15.5	17	17.9
	65	200	7.8	7	12.4	12.4	12.4	15.5
150	80	300	7.8	7	14.8	14.8	15.8	17.9
	80	400	7.8	7	15.2	15.2	16.2	18.3
	100	300	7.8	7.2	15.5	15.5	17	19.1
	125	300	7.8	7.5	19.5	19.5	19.5	24.5
200	80	200	8.4	7	18.8	18.6	20.6	26
	80	300	8.4	7	21.8	21.6	23.6	29
	80	650	8.4	7	35.1	34.9	36.9	42.3
	100	300	8.4	7.2	22.3	22.1	24.1	30
	100	600	8.4	7.2	29.5	28	30.8	35.9
	125	400	8.4	7.5	23.1	22.9	24.9	32.2
	150	300	8.4	7.8	22.0	21.5	25	32
250	80	300	9	7	24.0	23.8	27.4	37.8
	80	650	9	7	36.5	36.3	39.9	50.3
	100	300	9	7.2	29.3	29.1	33.2	43.6
	100	650	9	7.2	42.6	42.4	46.5	56.9
	150	300	9	7.8	33.2	33	37.6	50.1
	150	600	9	7.8	43.0	42.5	46.7	59.6
300	200	300	9	8.4	30.0	29.5	35.5	50.9
	80	300	9.6	7	25.4	25	30.6	46.1
	100	300	9.6	7.2	30.6	30.3	35.7	51.9
	150	650	9.6	7.8	56.0	55	62	79.2

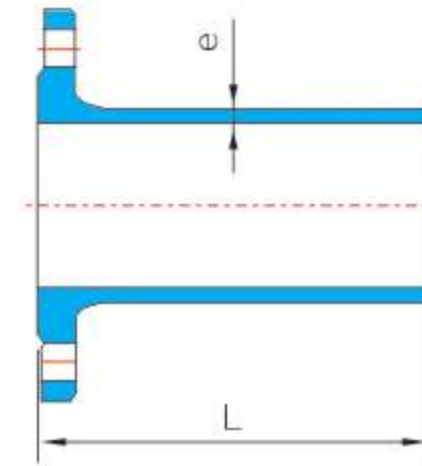
(Unit:mm)

Nominal Diameter		L	e1	e2	Mass(kg)			
DN	dn				PN10	PN16	PN25	PN40
300	150	300	9.6	7.8	38.6	38.3	44.7	62.5
	200	600	9.6	8.4	58.5	57	65	85.5
	200	300	9.6	8.4	43.0	42.5	49.9	71
	250	300	9.6	9	40.5	39.5	49.5	74.6
350	200	650	10.2	8.4	60.5	63.5	74	100.4
	250	600	10.2	9	67.0	70	82.5	113.5
	300	300	10.2	9.6	49.0	52	66	102.6
400	100	300	10.8	7.2	43.3	51.6	59.8	97.1
	150	300	10.8	7.8	46.2	58.6	63.2	106.7
	200	300	10.8	8.4	49.5	54	67.3	106.4
	200	700	10.8	8.4	74.5	73	86.5	125.4
	250	650	10.8	9	77.0	83	98.5	142
	300	300	10.8	9.6	58.3	62.6	79.5	128.7
	300	600	10.8	9.6	82.0	90	107	156.1
450	350	300	10.8	10.2	58.0	67	86	141.5
	200	750	11.4	8.4	89.5	97	107	152.5
	250	700	11.4	9	82.0	87	103	149.1
	300	650	11.4	9.6	87.0	92	110	161.2
	350	600	11.4	10.2	96.0	106	125	183.6
500	400	300	11.4	10.8	81.0	85	101	178.1
	200	600	12	8.4	88.2	101.5	115.2	154.2
	250	750	12	9	109.0	122	132	181.3
	300	600	12	9.6	96.0	109.3	132.3	175.7
	300	700	12	9.6	126.0	134	152	200.4
600	350	650	12	10.2	117.0	125	150	199.8
	400	600	12	10.8	110.0	130	152	220.3
	450	300	12	11.4	83.0	104	127	197.4
	300	600	13.2	9.6	126.0	150	170	237.9
	350	750	13.2	10.2	167.0	188	226	284.3
	400	600	13.2	10.8	140.8	169.8	195.7	281.6
	400	700	13.2	10.8	164.0	191	229	302.8
700	450	650	13.2	11.4	167.0	193	221	307.9
	500	600	13.2	12	195.0	191	216	303.1
	400	800	14.4	10.8	196.0	212	255	-
	450	750	14.4	11.4	197.0	217	259	-
	500	700	14.4	12	200.0	256	268	-
800	600	600	14.4	13.2	195.0	236	282	-
	450	900	15.6	11.4	263.0	286	347	-
	500	800	15.6	12	256.0	284	346	-
	600	700	15.6	13.2	260.0	298	363	-
900	700	600	15.6	14.4	263.0	290	371	-
	500	1000	16.8	12	338.0	370	443	-
	600	800	16.8	13.2	318.0	360	436	-
	700	700	16.8	14.4	321.0	352	444	-
1000	800	600	16.8	15.6	308.0	352	462	-
	600	1000	18	13.2	422.0	490	583	-
	700	800	18	14.4	396.0	442	551	-
	800	700	18	15.6	399.0	448	575	-
1200	900	600	18	16.8	376.0	438	577	-
	700	1345	20.4	14.4	711.0	777	908	-
	800	1160	20.4	15.6	688.0	758	908	-

(Unit:mm)

Nominal Diameter		L	e1	e2	Mass(kg)			
DN	dn				PN10	PN16	PN25	PN40
1200	900	975	20.4	16.8	652.0	726	887	-
	1000	790	20.4	18	586.0	692	879	-
	1100	605	20.4	19.2	566.0	655	850	-
1400	800	1590	22.8	15.6	1034	1105	-	-
	900	1405	22.8	16.8	998	1074	-	-
	1000	1220	22.8	18	961	1052	-	-
	1100	1035	22.8	19.2	914	1005	-	-
1500	1200	850	22.8	20.4	814	947	-	-
	900	1620	24	16.8	1211	1317	-	-
	1000	1435	24	18	1174	1297	-	-
	1100	1250	24	19.2	1127	1250	-	-
1600	1200	1065	24	20.4	1074	1216	-	-
	1400	695	24	22.8	914	1058	-	-
	1000	1650	25.2	18	1424	1547	-	-
	1100	1465	25.2	19.2	1377	1502	-	-
1800	1200	1280	25.2	20.4	1324	1468	-	-
	1400	910	25.2	22.8	1103	1273	-	-
	1500	725	25.2	24	1073	1250	-	-
	1100	1895	27.6	19.2	1910	2057	-	-
2000	1200	1710	27.6	20.4	1858	2024	-	-
	1400	1340	27.6	22.8	1701	1870	-	-
	1500	1155	27.6	24	1610	1810	-	-
	1600	970	27.6	25.2	1436	1664	-	-
2100	1200	2140	30	20.4	2512	2705	-	-
	1400	1770	30	22.8	2358	2553	-	-
	1500	1585	30	24	2268	2494	-	-
	1600	1400	30	25.2	2176	2404	-	-
	1800	1030	30	27.6	1800	2079	-	-
2200	1200	2355	31.2	20.4	2897	3116	-	-
	1400	1985	31.2	22.8	2742	2958	-	-
	1500	1800	31.2	24	2659	2919	-	-
	1600	1615	31.2	25.2	2569	2822	-	-
	1800	1245	31.2	27.6	2300	2576	-	-
2400	2000	875	31.2	30	1974	2276	-	-
	1400	2200	32.4	22.8	3168	3385	-	-
	1500	2015	32.4	24	3070	3328	-	-
	1600	1830	32.4	25.2	2980	3240	-	-
	1800	1460	32.4	27.6	2712	2994	-	-
	2000	1090	32.4	30	2250	2570	-	-
2600	2100	905	32.4	31.2	2218	2552	-	-
	1500	2445	34.8	24	4006	4322	-	-
	1600	2260	34.8	25.2	3919	4238	-	-
	1800	1890	34.8	27.6	3557	3997	-	-
	2000	1520	34.8	30	3338	3704	-	-
	2100	1335	34.8	31.2	3171	3563	-	-
2600	2200	1150	34.8	32.4	2765	3134	-	-
	1600	2690	37.2	25.2	4943	5286	-	-
	1800	2320	37.2	27.6	4682	5047	-	-
	2000	1950	37.2	30	4364	4755	-	-
	2100	1765	37.2	31.2	4194	4611	-	-
	2200	1580	37.2	32.4	3996	4419	-	-
2400	1210	37.2	34.8	3311	3784	-	-	

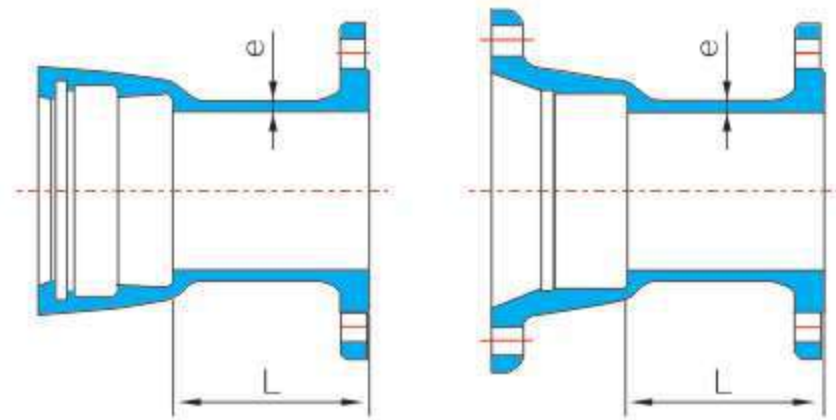
● Flange Spigot



(Unit:mm)

DN	L	e	Mass (kg)			
			PN10	PN16	PN25	PN40
40	335	7	4.3	4.3	4.3	4.3
50	340	7	5.9	5.9	5.9	5.9
60	345	7	6	6	6	6
65	345	7	7.3	7.3	7.2	7.3
80	350	7	7.8	7.8	7.8	7.8
100	360	7.2	9.6	9.6	10.2	10.6
125	370	7.5	12.4	12.4	13	16.2
150	380	7.8	15.6	15.6	16.6	21.8
200	400	8.4	22.5	22.5	24.5	37.3
250	420	9	32	31.5	35.5	59.5
300	440	9.6	43	42.5	47.5	84.7
350	460	10.2	52	55	64	114
400	480	10.8	64	70	81	160
450	500	11.4	78.5	87	98	183.2
500	520	12	94	109	121	199.6
600	560	13.2	133	159	173	292.6
700	600	14.4	179	194	238.5	-
800	600	15.6	226	245	301	-
900	600	16.8	272	295	377	-
1000	600	18	328	369	469	-
1100	600	19.2	394	430	556	-
1200	600	20.4	456	520	659	-
1400	710	22.8	664	732	955	-
1500	745	24	812	900	-	-
1600	780	25.2	922	1024	1298	-
1800	850	27.6	1196	1322	-	-
2000	920	30	1534	1687	-	-
2200	990	32.4	1948	2115	-	-
2400	1060	34.8	2409	2611	-	-
2600	1130	37.2	2918	3153	-	-

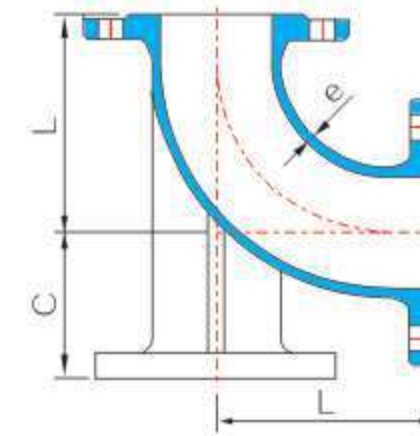
● Flange Socket



(Unit:mm)

DN	L	e	Mass (kg)							
			T				K			
DN			PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
80	130	7	8.3	8.3	8.3	8.3	9.3	9.3	9.3	9.3
100	130	7.2	10.2	10.2	10.7	11.2	11.3	11.3	11.8	12.3
125	135	7.5	11.5	11.5	12.1	15.3	14.3	14.3	14.9	18.1
150	135	7.8	16.4	16.4	17.4	22.6	18.0	18	19	24.2
200	140	8.4	24.5	24.5	26.5	39.3	24.5	25.2	26	40
250	145	9	32.0	32	35.6	60	36.0	35.8	39.5	63.8
300	150	9.6	39.0	39	44.4	81.2	44.5	44	49.5	86.2
350	155	10.2	52.5	55.5	63.6	114.5	53.0	55.5	63.5	114.5
400	160	10.8	63.0	67.5	78.5	157.5	63.5	68	79	158
450	165	11.4	73.5	81.5	92.5	177.7	74.5	82	93	178.2
500	170	12	86.0	99.5	110.5	190.1	87.0	100	110	190.6
600	180	13.2	116.5	140	154	273.6	115.0	138	152	271.6
700	190	14.4	190.5	202	234.5	-	163.0	174	206	-
800	200	15.6	238.0	253	299	-	209.0	224	270	-
900	210	16.8	308.0	327	383.5	-	275.0	294	351	-
1000	220	18	380.0	415	488.5	-	346.0	380	454	-
1100	230	19.2	484.0	520	603	-	412.0	448	531	-
1200	240	20.4	580.0	635	727	-	450.0	505	-	-
1400	310	22.8	741	798	935	-	685	741	878	-
1500	320	24	769.0	857	-	-	750.0	838	-	-
1600	330	25.2	887.0	989	-	-	873.0	963	-	-
1800	350	27.6	1125.0	1251	-	-	1103.0	1214	-	-
2000	370	30	1414.0	1567	-	-	1378.0	1516	-	-
2200	390	32.4	1767.0	1934	-	-	1708.0	1878	-	-
2400	410	34.8	2150.0	2352	-	-	2098.0	2326	-	-
2600	480	37.2	2563.0	2798	-	-	2533.0	2786	-	-

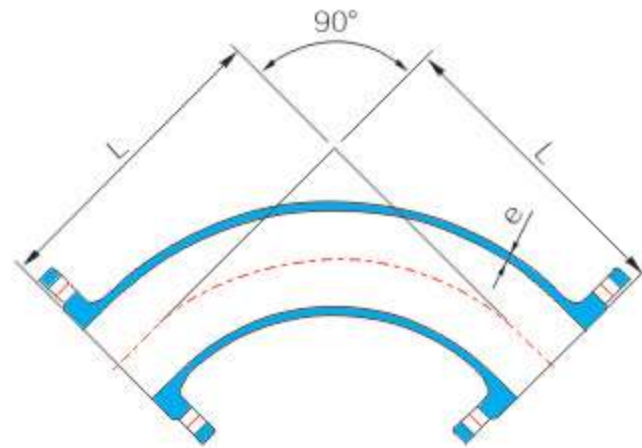
● Double Flange 90° Duckfoot Bend



(Unit:mm)

DN	L	C	e	Mass (kg)			
				PN10	PN16	PN25	PN40
40	140	90	7	8.6	8.6	8.6	8.6
50	150	95	7	10.7	10.7	10.7	10.7
60	160	100	7	11.9	11.9	11.9	11.9
65	165	100	7	13.2	13.2	13.2	13.2
80	165	110	7	14.1	14.59	14.1	120
100	180	125	7.2	17.3	17.84	18.8	133
125	200	140	7.5	23.5	23.5	24.5	142
150	220	160	7.8	30	30.53	32	169
200	250	190	8.4	46.5	46.73	50.5	223
250	350	225	9	75	76.4	82	264
300	400	255	9.6	106	109.42	116	320
350	450	290	10.2	139	150.62	162	396
400	500	320	10.8	178	198.31	212	458
450	550	350	11.4	245	281	283	516
500	600	385	12	283	328.2	337	598
600	700	450	13.2	428	513.9	509	742
700	800	515	14.4	684	708	772.6	-
800	900	580	15.6	944	974	1072.4	-
900	1000	645	16.8	1252	1290	1410.8	-
1000	1100	710	18	1629	1698	1844.6	-
1100	1200	775	19.2	2080	2150	-	-
1200	1300	840	20.4	2599	2709	-	-

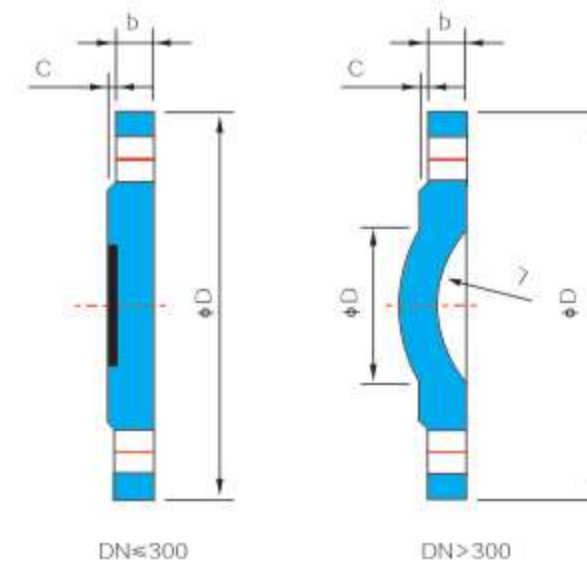
● Double Flange 90° Long Radius Bend



(Unit:mm)

DN	L	e	Mass (kg)			
			PN10	PN16	PN25	PN40
80	380	7	14.5	14.5	14.5	14.5
100	400	7.2	18	18	19	19
125	425	7.5	23.5	23.5	24.1	27.3
150	450	7.8	30.1	30.1	32.1	36.3
200	500	8.4	45.9	45.4	49.6	60.2
250	550	9	66.4	65.2	73.2	93.2
300	600	9.6	90.8	89.5	101	131.7
350	650	10.2	115.8	121.6	138.4	180.6
400	700	10.8	116.2	157.4	180	247.4
450	750	11.4	184	184	221	280.2
500	800	12	222	252.6	275.8	343.2
600	900	13.2	326.2	377	407.6	510.6
700	1000	14.4	454.4	484.2	735	-
800	1100	15.6	617.4	655	1013	-
900	1200	16.8	798.6	846.4	1309	-
1000	1300	18	1025	1108	1703	-
1100	1400	19.2	1315	1385	-	-
1200	1500	20.4	1592.8	1721.6	2124	-

● Blind Flange



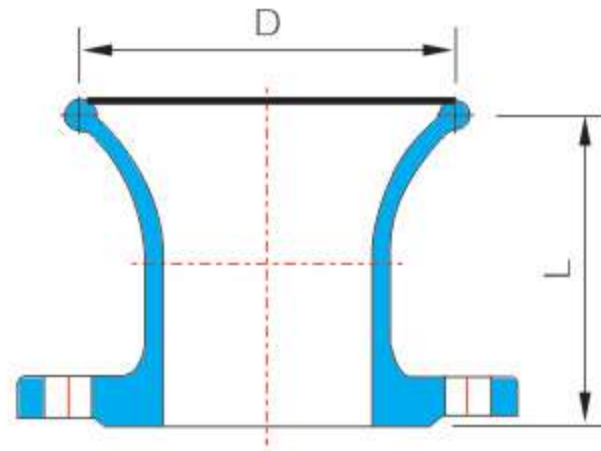
DN≤300

DN>300

(Unit:mm)

DN	Mass (kg)		
	PN10	PN16	PN25
80	3.5	3.5	3.5
100	4.3	4.3	4.8
125	5.6	5.6	6.2
150	7.2	7.2	8.3
200	11	10.8	13.3
250	16.9	16.6	21
300	24	23.5	30
350	29.5	36.3	43.5
400	36.5	49.5	58
450	50	69	79
500	56	91	94
600	85	132	144
700	123	156	-
800	172	219	-
900	224	286	-
1000	293	387	-
1100	405	518	-
1200	575	662	-
1400	739	994	-
1500	808	1092	-
1600	1239	1409	-
1800	1717	1858	-
2000	2272	2407	-
2100	1777	2457	-
2200	2253	3097	-
2400	2781	3863	-
2600	3365	4716	-

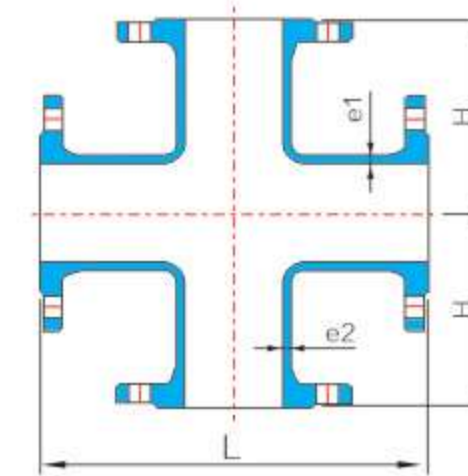
● Flange Bell Mouth



(Unit:mm)

DN	Dimension		Mass (kg)		
	D	L	PN10	PN16	PN25
80	150	130	5.2	5.2	5.2
100	175	135	6.2	6.2	6.7
150	230	150	10.1	10.1	11.1
200	290	170	15	14.8	16.8
250	345	183	21	23	24.5
300	405	205	28.5	28.5	33.5
350	460	220	35.5	38	46
400	520	240	45	49.5	60.5
450	575	255	54	62	73
500	635	275	67	82	91
600	750	310	96.5	120	132
700	865	345	135	146	-
800	980	380	182	197	-
900	1095	415	231	250	-
1000	1210	450	297	331	-
1100	1325	485	370	405	-
1200	1440	520	457	512	-
1400	1670	590	646	702	-
1600	1900	660	906	995	-
1800	2130	730	1185	1297	-
2000	2360	800	1530	1668	-
2100	2475	835	1753	1918	-
2200	2590	870	1964	2135	-
2400	2820	940	2485	2713	-
2600	3050	1010	2989	3242	-

● All Flange Cross Tee

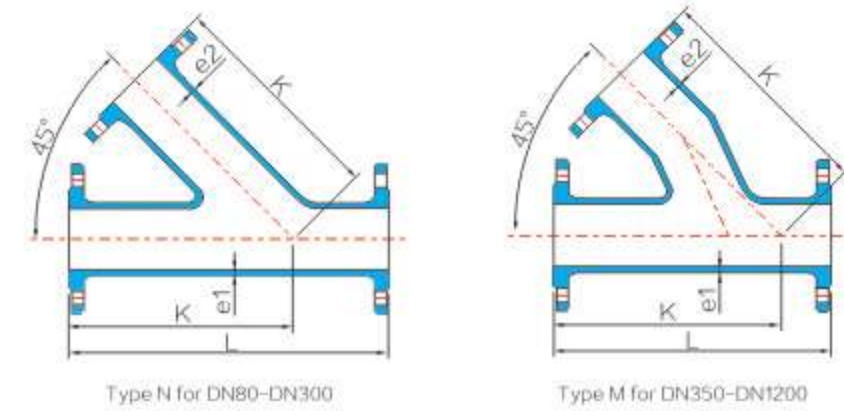


(Unit:mm)

Body	DN Branch	L	H	e1	e2	Mass(kg)		
						PN10	PN16	PN25
80	80	330	165	7	7	20.5	20.5	20.5
100	80	360	175	7.2	7	24.5	24.5	25.5
	100	360	180	7.2	7.2	24.5	24.5	26.7
125	80	400	185	7.5	7	33.1	33.1	36.1
	100	400	190	7.5	7.2	35.1	35.1	38.1
	125	400	200	7.5	7.5	41.1	41.1	46.1
150	80	440	205	7.8	7	33.1	33.1	36.1
	100	440	210	7.8	7.2	35.1	35.1	38.1
	125	440	215	7.8	7.5	38.5	38.5	41.8
	150	440	220	7.8	7.8	40.2	41.1	45.2
200	80	520	235	8.4	7	46.5	46	50.7
	100	520	240	8.4	7.2	48.5	47	53.7
	125	520	245	8.4	7.5	52	51.5	55
	150	520	250	8.4	7.8	54.5	54	60.7
	200	520	260	8.4	8.4	59.8	61	69
250	80	700	265	9	7	37.5	38	44.5
	100	700	275	9	7.2	74.5	73	81.1
	150	700	325	9	7.8	82.5	81	93.1
	200	700	325	9	8.4	90.5	89	101
	250	700	350	9	9	98.9	101	113.9
300	100	800	300	9.6	7.2	100	99	112
	150	800	350	9.6	7.8	108	107	120
	200	800	350	9.6	8.4	116	115	130
	250	800	375	9.6	9	130	129	144
300	800	400	9.6	9.6	143.8	143	163.8	

(Unit:mm)

Body	DN Branch	L	H	e1	e2	Mass(kg)		
						PN10	PN16	PN25
350	100	850	325	10.2	7.2	122	128	145
	150	850	325	10.2	7.8	128	134	151
	200	850	325	10.2	8.4	132	140	159
	250	850	400	10.2	9	146	151	176
	300	850	425	10.2	9.6	154	160	187
	350	850	425	10.2	10.2	176.2	188.2	221.2
400	100	900	350	10.8	7.2	149	160	183
	150	900	350	10.8	7.8	151	164	191
	200	900	350	10.8	8.4	159	170	197
	250	900	350	10.8	9	160	174	225
	300	900	450	10.8	9.6	182	220	256
	350	900	450	10.8	10.2	202	218	259
450	100	950	375	11.4	7.2	186	203	235
	150	950	375	11.4	7.8	198	215	248
	200	950	375	11.4	8.4	213	230	265
	250	950	475	11.4	9	231	248	286
	300	950	475	11.4	9.6	253	270	312
	350	950	475	11.4	10.2	272	296	343
500	100	1000	400	12	7.2	215	247	272
	150	1000	400	12	7.8	223	251	280
	200	1000	400	12	8.4	225	255	284
	250	1000	500	12	9	231	281	301
	300	1000	500	12	9.6	249	295	316
	350	1000	500	12	10.2	273	310	338
600	100	1100	450	13.2	7.2	242	311	329
	150	1100	450	13.2	7.8	272	333	365
	200	1100	450	13.2	8.4	316	369	401
	250	1100	550	13.2	9	321	373	409
	300	1100	550	13.2	9.6	330	400	420
	350	1100	550	13.2	10.2	358	413	451
600	400	1100	550	13.2	10.8	364	427	479
	450	1100	550	13.2	11.4	382	487	521
	500	1100	550	13.2	12	403	494	553
	600	1100	550	13.2	13.2	436.9	541.9	600

● All Flange 45° Branch Tee


(Unit:mm)

Body	DN Branch	L	K	e1	e2	Mass(kg)
						PN16
80	80	500	375	7	7	21
100	80	500	390	7.2	7	27
	100	540	405	7.2	7.2	30
150	80	590	480	7.8	7	41
	100	640	480	7.8	7.2	45
200	150	640	480	7.8	7.8	52
	80	635	535	8.4	7	55
	100	635	535	8.4	7.2	58
250	150	735	560	8.4	7.8	71
	200	735	560	8.4	8.4	81
	80	660	585	9	7	75
300	100	710	610	9	7.2	82
	150	830	640	9	7.8	100
	200	830	640	9	8.4	112
	250	830	640	9	9	126
350	80	685	610	9.6	7	97
	100	685	610	9.6	7.2	100
	150	790	660	9.6	7.8	120
	200	865	685	9.6	8.4	140
	250	930	715	9.6	9	161
400	300	930	715	9.6	9.6	177
	100	685	635	10.2	7.2	124
	150	740	660	10.2	7.8	140
	200	840	710	10.2	8.4	165
	250	880	740	10.2	9	165
	300	880	790	10.2	9.6	167
400	350	880	790	10.2	10.2	168
	100	760	710	10.8	7.2	155

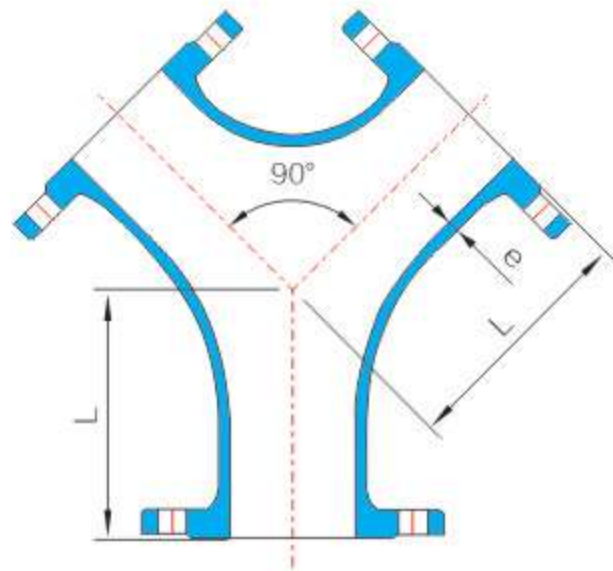
(Unit:mm)

Body	DN		L	K	e1	e2	Mass(kg)
	Branch	PN16					
400	150		815	740	10.8	7.8	158
	200		865	760	10.8	8.4	161
	250		970	820	10.8	9	175
	300		970	870	10.8	9.6	177
	350		970	870	10.8	10.2	186
	400		970	870	10.8	10.8	220
450	100		740	710	11.4	7.2	185
	150		840	760	11.4	7.8	211
	200		890	790	11.4	8.4	233
	250		990	820	11.4	9	272
	300		1040	900	11.4	9.6	298
	350		1060	950	11.4	10.2	338
	400		1060	950	11.4	10.8	366
450		1060	950	11.4	11.4	392	
500	150		790	765	12	7.8	245
	200		890	810	12	8.4	278
	250		940	840	12	9	304
	300		990	865	12	9.6	334
	350		1065	950	12	10.2	389
	400		1140	1025	12	10.8	439
	450		1140	1025	12	11.4	468
500		1140	1025	12	12	505	
600	150		890	840	13.2	7.8	354
	200		940	890	13.2	8.4	382
	250		990	915	13.2	9	413
	300		1090	965	13.2	9.6	480
	350		1160	1000	13.2	10.2	520
	400		1230	1035	13.2	10.8	568
	450		1295	1070	13.2	11.4	618
	500		1310	1180	13.2	12	680
	600		1310	1180	13.2	13.2	768
700	200		1040	1015	14.4	8.4	547
	250		1070	1040	14.4	9	582
	300		1170	1090	14.4	9.6	649
	350		1240	1125	14.4	10.2	708
	400		1310	1160	14.4	10.8	772
	450		1370	1195	14.4	11.4	860
	500		1440	1240	14.4	12	945
	600		1570	1370	14.4	13.2	1133
700		1570	1370	14.4	14.4	1240	
800	250		1180	1150	15.6	9	760

(Unit:mm)

Body	DN		L	K	e1	e2	Mass(kg)
	Branch	PN16					
800	300		1200	1170	15.6	9.6	800
	350		1270	1205	15.6	10.2	867
	400		1340	1240	15.6	10.8	938
	450		1400	1270	15.6	11.4	1009
	500		1470	1305	15.6	12	1128
	600		1600	1370	15.6	13.2	1314
	700		1660	1450	15.6	14.4	1476
	800		1720	1520	15.6	15.6	1674
900	300		1270	1245	16.8	9.6	980
	350		1340	1280	16.8	10.2	1056
	400		1410	1315	16.8	10.8	1136
	450		1480	1350	16.8	11.4	1218
	500		1560	1390	16.8	12	1322
	600		1730	1475	16.8	13.2	1590
	700		1780	1540	16.8	14.4	1757
	800		1830	1610	16.8	15.6	1964
	900		1880	1680	16.8	16.8	2194
1000	300		1340	1305	18	9.6	1193
	350		1415	1380	18	10.2	1320
	400		1485	1415	18	10.8	1408
	450		1550	1450	18	11.4	1500
	500		1680	1510	18	12	1647
	600		1800	1575	18	13.2	1915
	700		1930	1640	18	14.4	2144
	800		2060	1700	18	15.6	2410
	900		2180	1980	18	16.8	2812
	1000		2180	1980	18	18	3052
1100	400		1560	1515	19.2	10.8	1677
	600		1830	1650	19.2	13.2	2200
	800		2120	1930	19.2	15.6	2827
	1000		2265	2065	19.2	18	3452
	1100		2265	2065	19.2	19.2	3703
1200	450		1780	1700	20.4	11.4	2210
	500		1880	1750	20.4	12	2367
	600		1980	1855	20.4	13.2	2695
	700		2125	1920	20.4	14.4	2988
	800		2270	1990	20.4	15.6	3330
	900		2415	2060	20.4	16.8	3693
	1000		2480	2280	20.4	18	4136
	1100		2480	2280	20.4	19.2	4410
	1200		2480	2280	20.4	20.4	4728

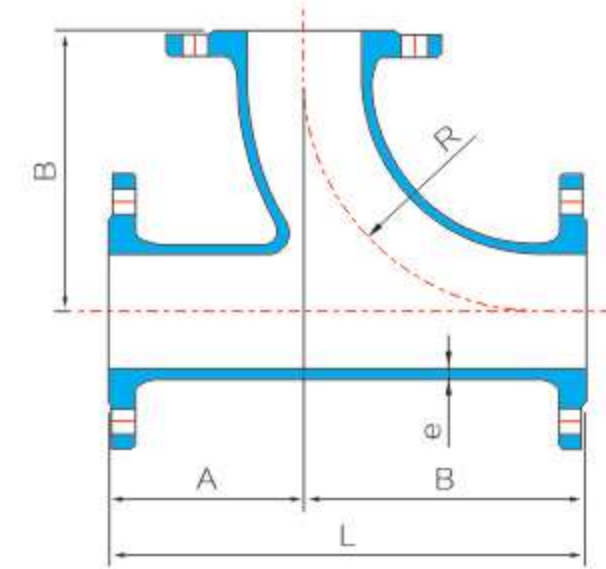
● All-Flanged "Y" Tee



(Unit:mm)

Nominal Diameter	e	L	Mass (kg)
DN	mm		PN16
80	7	165	15.6
100	7.2	180	19.3
150	7.8	220	31.9
200	8.4	260	48.1
250	9	350	79.8
300	9.6	400	113.5
350	10.2	450	165.4
400	10.8	500	219.1
450	11.4	550	280
500	12	600	363.9
600	13.2	700	562.7

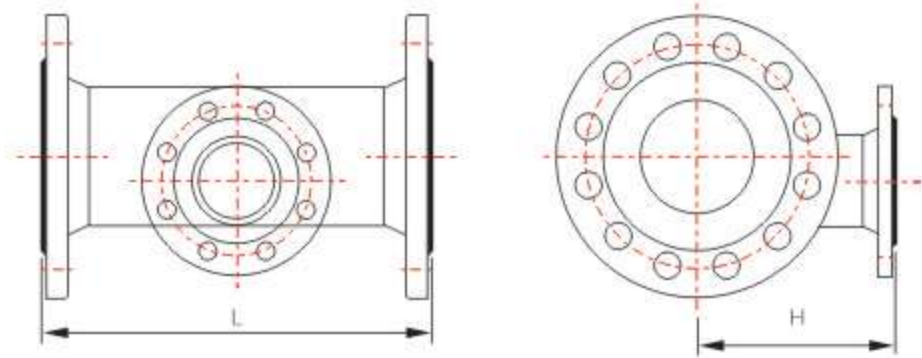
● All Flange Tee with Pradial Branch



(Unit:mm)

DN	dn	L	A	B	R	e	Mass(PN16)
80	80	545	165	380	330	7	23
100	100	580	180	400	340	7.2	29.5
150	150	670	220	450	385	7.8	47.9
200	200	760	250	500	430	8.4	71.6
250	250	900	350	550	475	9	104.8
300	300	1000	400	600	515	9.6	144.5
350	350	1100	450	650	560	10.2	203.4
400	400	1200	500	700	605	10.8	263.1
450	450	1300	550	750	650	11.4	332
500	500	1400	600	800	690	12	421.9
600	600	1500	700	900	780	13.2	623.7

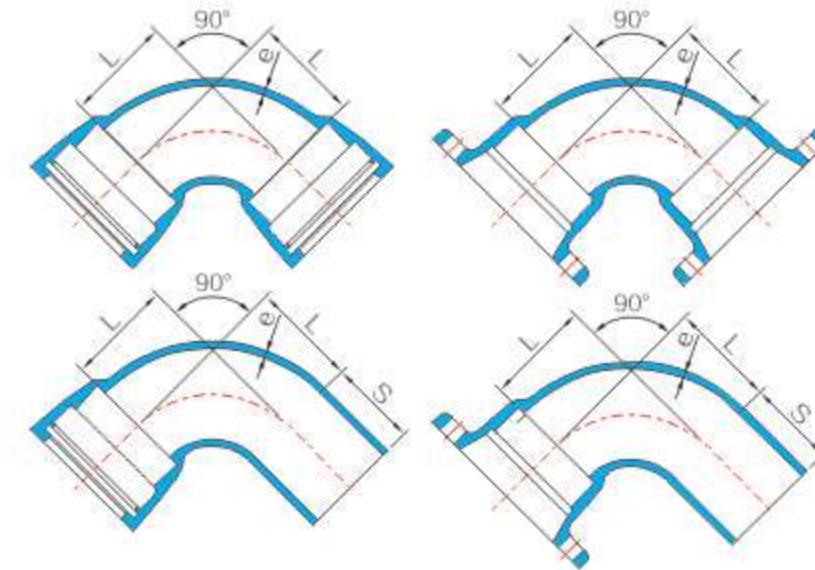
● All flange Level invert Tee



(Unit:mm)

DN		L	H	Mass(kg)		
Body	Branch			PN10	PN16	PN25
100	80	360	195	19.5	19.5	19.5
150	80	440	220	29.5	29.5	29.5
200	80	520	250	43	42.5	42
	100	700	275	44	43.5	43
250	80	700	275	66.4	66	65.6
	100	700	275	68.5	69	67.5
300	80	800	305	92.5	94	91.5
	100	800	305	96.5	96	94.5
	150	800	305	99.5	99	98.5
350	80	850	325	121	121	121
	100	850	325	117	125	129
	150	850	325	123	128	133
400	80	900	350	145	154	163
	100	900	350	147	156	165
	150	900	350	153	162	171
	200	900	350	158	167	176
450	80	950	375	188	188	188
	100	950	375	173	189	205
	150	950	375	181	197	213
	200	950	375	186	202	218
500	80	1000	400	237	237	237
	100	1000	400	215	241	267
	150	1000	400	221	248	275
	200	1000	400	228	255	282
600	80	1100	450	311	350	350
	100	1100	450	312	351	390
	150	1100	450	313	360	407
	200	1100	450	323	370	417
700	150	600	500	239	262	285
	200	650	500	246	268	290
800	150	670	540	350	379	408
	200	690	540	359	388	417
900	150	720	580	443	481	519
	200	730	580	446	483	520
1000	150	770	630	556	625	694
	200	770	630	560	628	696
1100	150	800	660	671	743	815
	200	850	660	701	773	845
1200	150	800	770	838	910	982
	200	850	770	873	945	1017

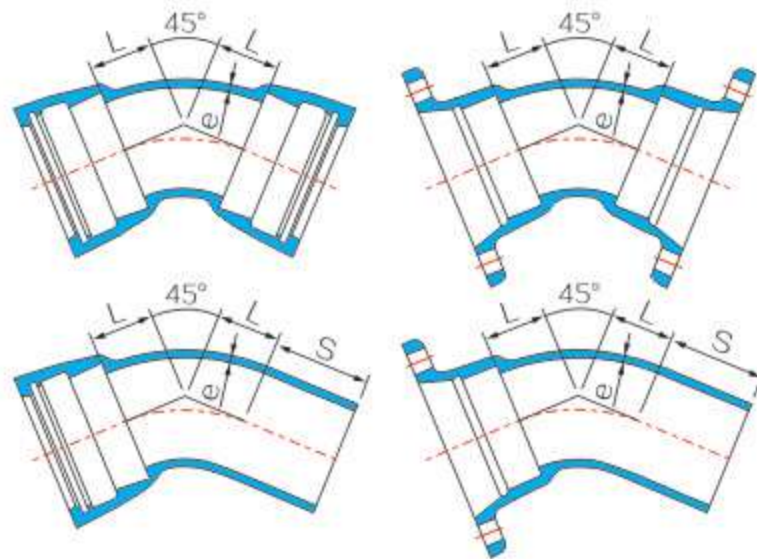
● Double Socket 90° Bend for DI Pipe



(Unit:mm)

DN	L	S	e	Mass (kg)			
				Double socket		Socket spigot	
				T	K	T	K
80	100	150	7	9	12	10.1	13.7
100	120	150	7.2	12.1	15.6	13.3	15.7
150	170	200	7.8	22	27.5	24	23.9
200	220	200	8.4	36.5	40	38.3	36.4
250	270	200	9	51.5	55.5	60.6	51.6
300	320	200	9.6	70.5	81.5	78	75
350	370	200	10.2	97.5	105	111.7	105
400	420	200	10.8	124	134	145.6	135
450	470	200	11.4	156	166	184.8	169
500	520	200	12	193	202	229.6	208
600	620	200	13.2	280	290	337.1	299
700	720	200	14.4	455	443	490	478
800	820	200	15.6	605	581	665	628
900	920	250	16.8	813	785	880	849
1000	1020	250	18	1045	935	1137	1024
1100	1120	250	19.2	1253	1168	1354	1290
1200	1220	250	20.4	1663	1660	1798	1651
1400	1220	300	22.8	2419	1918	2170	2059
1500	1270	300	24	2787	2230	2538	2402
1600	1290	300	25.2	3382	2543	2904	2732
1800	1320	300	27.6	-	3833	-	4100
2000	1360	400	30	-	4783	-	4700
2200	1400	400	32.4	-	5884	-	5780
2400	1460	400	34.8	-	7205	-	7105
2600	1520	400	37.2	-	8705	-	8593

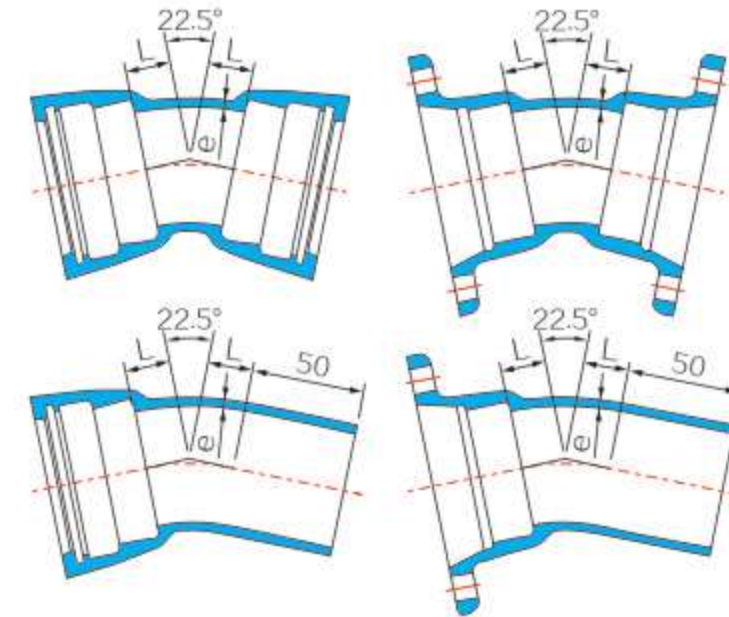
● Double Socket 45° Bend for DI Pipe



(Unit:mm)

DN	L	S	e	Mass (kg)			
				Double socket		Socket spigot	
				T	K	T	K
80	55	150	7	8.1	11.1	8.1	9.8
100	65	150	7.2	10.8	14.3	10.6	13
150	85	200	7.8	18.8	24	18.2	20.7
200	110	200	8.4	31	34	28.2	30.4
250	130	200	9	41.5	45.5	40.2	41.6
300	150	200	9.6	55	66	54.6	62.9
350	175	200	10.2	76	83.5	71.3	76.5
400	195	200	10.8	94	104	89.9	95.1
450	220	200	11.4	117	127	125	129
500	240	200	12	141	150	139	142
600	285	200	13.2	199	209	200	198
700	330	200	14.4	288	289	275	271
800	370	200	15.6	382	373	365	362
900	415	250	16.8	501	488	485	480
1000	460	250	18	640	628	608	600
1100	505	250	19.2	856	856	845	835
1200	550	250	20.4	1007	943	930	905
1400	515	300	22.8	1273	1223	1231	1200
1500	540	300	24	1640	1550	1420	1390
1600	565	300	25.2	1740	1647	1695	1670
1800	610	380	27.6	2296	2166	-	2200
2000	660	380	30	2970	2791	-	3005
2200	710	400	32.4	-	3757	-	3757
2400	755	400	34.8	-	4659	-	4660
2600	805	400	37.2	-	5714	-	5714

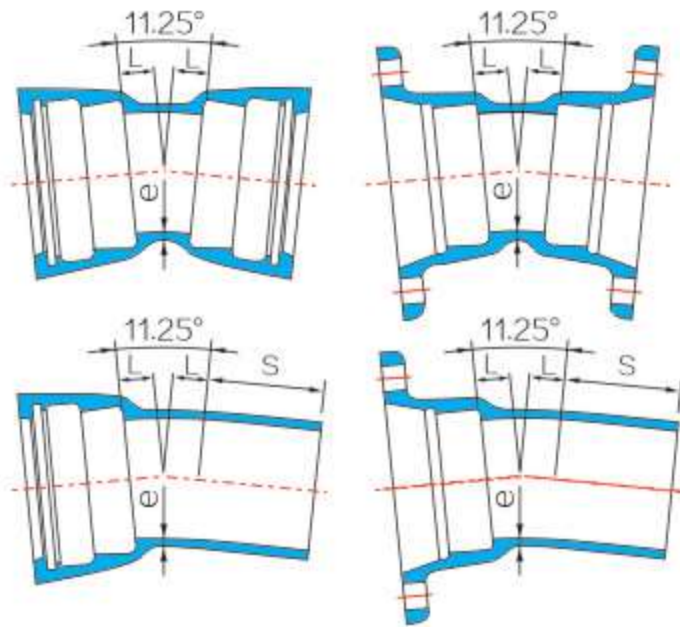
● Double Socket 22.5° Bend for DI Pipe



(Unit:mm)

DN	L	S	e	Mass (kg)			
				Double socket		Socket spigot	
				T	K	T	K
80	40	150	7	7.7	10.7	7.7	8.5
100	40	150	7.2	10	13.5	9.8	12.2
150	55	200	7.8	17.3	22.5	16.8	19.3
200	65	200	8.4	27.5	30.5	25.2	27.4
250	75	200	9	36	40.5	35.2	36.6
300	85	200	9.6	47	58	46.2	51.6
350	95	200	10.2	64	71	59	64.2
400	110	200	10.8	78.5	88	79.5	84.7
450	120	200	11.4	95	105	107	111
500	130	200	12	113	123	117	119
600	150	200	13.2	154	164	161	159
700	175	200	14.4	223	223	210	206
800	195	200	15.6	291	281	274	270
900	220	250	16.8	377	364	375	345
1000	240	250	18	474	463	443	430
1100	260	250	19.2	644	601	598	580
1200	285	250	20.4	736	671	660	660
1400	260	300	22.8	933	882	891	880
1500	270	300	24	1177	1077	1200	1160
1600	280	300	25.2	1259	1167	1314	1200
1800	305	380	27.6	1663	1533	-	1767
2000	330	380	30	2144	1965	-	2290
2200	355	400	32.4	-	2705	-	2680
2400	380	400	34.8	-	3358	-	3185
2600	400	400	37.2	-	4085	-	3990

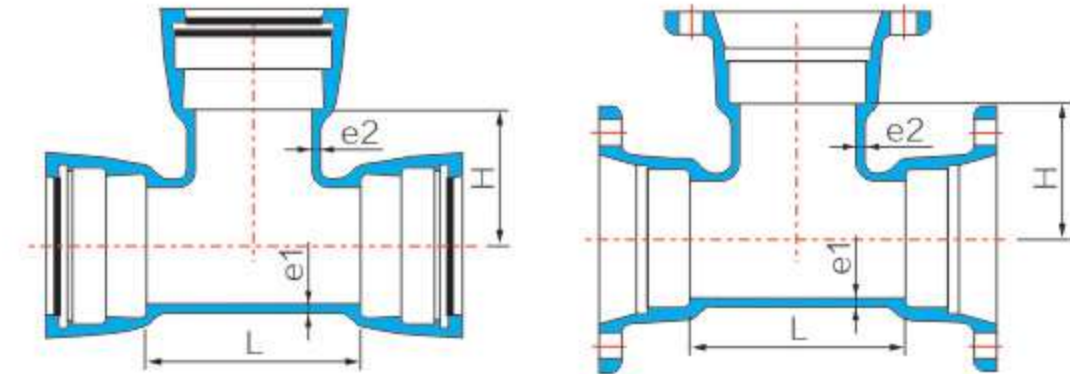
● Double Socket 11.25° Bend for DI Pipe



(Unit:mm)

DN	L	S	e	Mass (kg)			
				Double socket		Socket spigot	
				T	K	T	K
80	30	150	7	7.4	10.5	7.4	8.5
100	30	150	7.2	9.7	13.1	9.4	11.7
150	35	200	7.8	16.2	21.5	16	15.7
200	40	200	8.4	25.5	29	23.2	25.4
250	50	200	9	33.5	37.5	32.2	33.6
300	55	200	9.6	43	54	42.2	47.6
350	60	200	10.2	58	65.5	53.3	58.5
400	65	200	10.8	70	79	70.5	75.7
450	70	200	11.4	83.5	93.5	97	101
500	75	200	12	98.5	108	102	114
600	85	200	13.2	131	141	138	136
700	95	200	14.4	186	187	174	170
800	110	200	15.6	243	234	226	220
900	120	250	16.8	309	297	284	280
1000	130	250	18	386	375	354	360
1100	140	250	19.2	525	495	484	475
1200	150	250	20.4	588	524	512	510
1400	130	300	22.8	747	697	705	715
1500	140	300	24	908	794	882	870
1600	140	300	25.2	1007	914	962	950
1800	155	380	27.6	1331	1200	1390	1390
2000	165	380	30	1702	1522	1800	1801
2200	190	400	32.4	-	2181	2046	2046
2400	205	400	34.8	-	2707	2601	2601
2600	215	400	37.2	-	3288	3088	3088

● All Socket Tee for DI Pipe



(Unit:mm)

DN	dn	L	H	e1	e2	Mass (kg)	
						T	K
						80	80
100	80	170	95	7.2	7	16.7	19.9
	100	190	95	7.2	7.2	18.2	21.5
125	80	170	105	7.5	7	21.5	-
	100	195	110	7.5	7.2	23.5	-
150	80	170	120	7.8	7	24.5	28.5
	100	195	120	7.8	7.2	26.5	30.5
200	150	255	125	7.8	7.8	31.5	36.5
	80	175	145	8.4	7	35	36
	100	200	145	8.4	7.2	37.5	38.5
250	150	255	150	8.4	7.8	43	45
	200	315	155	8.4	8.4	50.5	50.5
	80	200	210	9	7	47	48.3
	100	200	210	9	7.2	48	49
300	150	315	220	9	7.8	59	61
	200	315	220	9	8.4	63.5	63.5
	250	375	230	9	9	71.5	71.5
	100	205	235	9.6	7.2	54.5	66.5
350	150	320	245	9.6	7.8	68	80.5
	200	320	245	9.6	8.4	72	84
	250	375	250	9.6	9	85.5	92.1
	300	435	260	9.6	9.6	90.5	106
350	100	205	260	10.2	7.2	70.5	78
	150	325	270	10.2	7.8	86.5	95
	200	325	270	10.2	8.4	90.5	98
	250	375	275	10.2	9	105	109
300	440	285	10.2	9.6	111	122	

(Unit:mm)

DN	dn	L	H	e1	e2	Mass (kg)	
						T	K
350	350	495	290	10.2	10.2	124	133
400	100	210	285	10.8	7.2	83	92
	150	325	295	10.8	7.8	101	111
	200	325	295	10.8	8.4	105	114
	250	375	300	10.8	9	116	128
	300	440	310	10.8	9.6	127	140
	350	495	315	10.8	10.2	137	152
	400	560	320	10.8	10.8	155	167
	450	100	215	320	11.4	7.2	106
150		330	320	11.4	7.8	117	128
200		330	320	11.4	8.4	121	131
250		375	325	11.4	9	138	147
300		445	335	11.4	9.6	146	160
350		495	340	11.4	10.2	161	175
400		560	345	11.4	10.8	175	188
450		620	350	11.4	11.4	190	203
500	100	215	345	12	7.2	115	123
	150	330	345	12	7.8	135	145
	200	330	345	12	8.4	139	148
	250	380	350	12	9	161	168
	300	450	360	12	9.6	167	179
	350	500	365	12	10.2	187	198
	400	565	370	12	10.8	198	210
	450	620	375	12	11.4	214	224
600	100	220	395	13.2	7.2	169	168
	150	340	395	13.2	7.8	175	184
	200	340	395	13.2	8.4	178	187
	250	380	400	13.2	9	205	213
	300	455	410	13.2	9.6	211	223
	350	500	415	13.2	10.2	246	248
	400	570	420	13.2	10.8	248	259
	450	620	425	13.2	11.4	280	281
	500	685	430	13.2	12	296	296
	600	800	440	13.2	13.2	325	337
700	100	345	445	14.4	7.2	279	269
	150	345	445	14.4	7.8	283	273
	200	345	445	14.4	8.4	289	279
	300	460	460	14.4	9.6	326	316
	400	575	470	14.4	10.8	361	350
	500	650	480	14.4	12	411	399
	600	810	490	14.4	13.2	461	450
	700	925	500	14.4	14.4	536	519

(Unit:mm)

DN	dn	L	H	e1	e2	Mass (kg)	
						T	K
800	100	350	495	15.6	7.2	341	317
	150	350	495	15.6	7.8	347	324
	200	350	495	15.6	8.4	353	329
	300	465	510	15.6	9.6	399	376
	400	580	520	15.6	10.8	439	416
	500	815	530	15.6	12	472	449
	600	1045	540	15.6	13.2	629	606
	700	1045	550	15.6	14.4	665	637
	800	1045	565	15.6	15.6	701	666
	900	100	355	545	16.8	7.2	446
150		355	545	16.8	7.8	450	420
200		355	545	16.8	8.4	458	427
300		590	570	16.8	9.6	535	505
400		590	570	16.8	10.8	556	526
500		820	590	16.8	12	803	770
600		1170	590	16.8	13.2	833	798
700		1170	615	16.8	14.4	878	843
800		1170	615	16.8	15.6	903	868
900		1170	625	16.8	16.8	944	899
1000	100	360	595	18	7.2	626	596
	150	360	595	18	7.8	632	602
	200	360	595	18	8.4	640	607
	300	595	620	18	9.6	761	729
	400	595	620	18	10.8	786	751
	500	830	640	18	12	900	941
	600	1290	640	18	13.2	1008	970
	700	1290	665	18	14.4	1081	1041
	800	1290	665	18	15.6	1129	1087
	900	1290	685	18	16.8	1150	1106
1100	1000	1290	685	18	18	1209	1164
	200	370	650	19.2	8.4	710	680
	400	600	670	19.2	10.8	909	775
	600	830	690	19.2	13.2	1052	822
	800	1065	715	19.2	15.6	1313	986
	1000	1295	735	19.2	18	1504	1172
	1100	1410	745	19.2	19.2	1626	1267
	1200	100	375	700	20.4	7.2	713
150		375	700	20.4	7.8	719	675
200		375	700	20.4	8.4	725	681
300		605	720	20.4	9.6	963	887
400		605	720	20.4	10.8	978	900
500		715	740	20.4	12	1095	1011
600		840	740	20.4	13.2	1139	1055

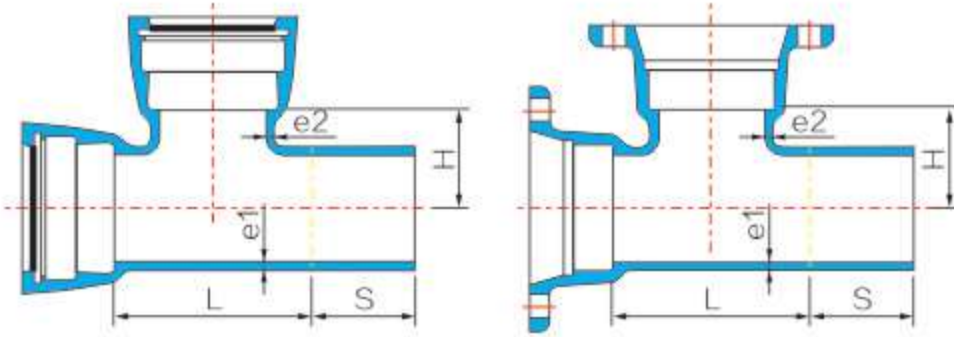
(Unit:mm)

DN	dn	L	H	e1	e2	Mass (kg)	
						T	K
1200	700	955	765	20.4	14.4	1390	1306
	800	1070	765	20.4	15.6	1449	1365
	900	1185	785	20.4	16.8	1596	1512
	1000	1300	785	20.4	18	1657	1564
	1200	1535	805	20.4	20.4	1900	1792
1400	100	385	820	22.8	7.2	916	884
	200	385	820	22.8	8.4	923	891
	400	800	820	22.8	10.8	1133	1098
	600	1030	840	22.8	13.2	1679	1422
	800	1260	865	22.8	15.6	1910	1641
	1000	1495	885	22.8	18	2441	1886
	1200	1725	905	22.8	20.4	2795	2133
	1400	1960	930	22.8	22.8	3124	2436
1500	600	1035	890	24	13.2	-	1600
	800	1270	915	24	15.6	-	1847
	1000	1500	935	24	18	-	2109
	1200	1730	955	24	20.4	-	2376
	1400	1965	980	24	22.8	-	2696
	1500	2080	990	24	24	-	2857
1600	100	400	920	25.2	7.2	2323	1173
	200	400	920	25.2	8.4	-	1183
	400	810	920	25.2	10.8	-	1435
	600	1040	940	25.2	13.2	-	1806
	800	1275	965	25.2	15.6	-	2073
	1000	1505	985	25.2	18	-	2363
	1200	1740	1010	25.2	20.4	-	2660
	1400	1970	1030	25.2	22.8	-	2992
	1600	2200	1050	25.2	25.2	-	3346
1800	100	410	1020	27.6	7.2	-	1518
	200	410	1020	27.6	8.4	-	1525
	400	820	1020	27.6	10.8	-	1931
	600	1055	1040	27.6	13.2	-	2272
	800	1285	1065	27.6	15.6	-	2591
	1000	1520	1085	27.6	18	-	2933
	1200	1750	1110	27.6	20.4	-	3274
	1400	1980	1130	27.6	22.8	-	3652
	1600	2215	1150	27.6	25.2	-	4052
	1800	2445	1175	27.6	27.6	-	4498
2000	200	420	1120	30	8.4	-	1924
	400	830	1120	30	10.8	-	2299
	600	1065	1140	30	13.2	-	2793
	800	1300	1165	30	15.6	-	3179
	1000	1530	1185	30	18	-	3572

(Unit:mm)

DN	dn	L	H	e1	e2	Mass (kg)	
						T	K
2000	1200	1760	1210	30	20.4	-	3968
	1400	1995	1230	30	22.8	-	4407
	1600	2225	1250	30	25.2	-	4850
	1800	2460	1275	30	27.6	-	5346
	2000	2690	1295	30	30	-	5873
2100	800	1305	1213	31.2	15.6	-	3463
	1000	1535	1235	31.2	18	-	3884
	1200	1770	1260	31.2	20.4	-	4317
	1400	2000	1280	31.2	22.8	-	4776
	1600	2230	1300	31.2	25.2	-	5244
	1800	2465	1325	31.2	27.6	-	5766
	2000	2695	1345	31.2	30	-	6311
	2100	2810	1355	31.2	31.2	-	6600
	2200	600	1080	1240	32.4	13.2	-
800		1310	1265	32.4	15.6	-	3803
1000		1540	1285	32.4	18	-	4258
1200		1775	1310	32.4	20.4	-	4725
1400		2005	1330	32.4	22.8	-	5214
1600		2240	1350	32.4	25.2	-	5722
1800		2470	1375	32.4	27.6	-	6264
2000		2700	1395	32.4	30	-	6835
2200		2935	1415	32.4	32.4	-	7457
2400		600	1090	1340	34.8	13.2	-
	800	1320	1365	34.8	15.6	-	4486
	1000	1555	1385	34.8	18	-	5018
	1200	1785	1410	34.8	20.4	-	5539
	1400	2020	1430	34.8	22.8	-	6102
	1600	2250	1450	34.8	25.2	-	6662
	1800	2489	1475	34.8	27.6	-	7263
	2000	2715	1495	34.8	30	-	7900
	2200	2945	1515	34.8	32.4	-	8558
	2400	3180	1540	34.8	34.8	-	9267
2600	600	1100	1440	37.2	13.2	-	510
	800	1335	1465	37.2	15.6	-	546
	1000	1565	1485	37.2	18	-	606
	1200	1800	1510	37.2	20.4	-	667
	1400	2030	1530	37.2	22.8	-	729
	1600	2260	1550	37.2	25.2	-	792
	1800	2495	1575	37.2	27.6	-	860
	2000	2725	1595	37.2	30	-	930
	2200	2960	1615	37.2	32.4	-	1003
	2400	3190	1640	37.2	34.8	-	1081
2600	3420	1660	37.2	37.2	-	1171	

Socket Spigot Tee with Socket Branch for DI Pipe



(Unit:mm)

DN	dn	L	H	S	e1	e2	Mass(kg)	
							T	K
80	80	170	85	150	7	7	13.1	16
100	80	170	95	150	7.2	7	15.6	18.8
	100	190	95	150	7.2	7.2	16.9	21.7
150	80	170	120	200	7.8	7	22.6	27
	100	195	120	200	7.8	7.2	24.6	29.5
	150	255	125	200	7.8	7.8	28.9	34
200	80	175	145	200	8.4	7	31.4	35.2
	100	200	145	200	8.4	7.2	33.2	37.8
	150	255	150	200	8.4	7.8	38.2	42.9
250	200	315	155	200	8.4	8.4	44	48.4
	80	200	210	200	9	7	41.3	42
	100	200	215	200	9	7.2	45.6	44.3
300	150	255	220	200	9	7.8	57.1	56.3
	200	315	220	200	9	8.4	61.6	58.8
	250	375	230	200	9	9	69.6	66.8
	100	205	235	200	9.6	7.2	57.5	55.3
350	150	260	240	200	9.6	7.8	67.1	65.3
	200	320	245	200	9.6	8.4	72.3	75.1
	250	375	250	200	9.6	9	82.7	89.5
	300	435	260	200	9.6	9.6	89.1	100
400	100	205	260	200	10.2	7.2	66.1	77.5
	150	260	265	200	10.2	7.8	82.1	89.5
	200	325	270	200	10.2	8.4	86.1	94.5
	250	375	275	200	10.2	9	99.1	106
	300	435	285	200	10.2	9.6	106.6	120
400	350	495	290	200	10.2	10.2	119.6	129
	100	210	285	200	10.8	7.2	84.7	91.8

(Unit:mm)

DN	dn	L	H	S	e1	e2	Mass(kg)	
							T	K
400	150	265	290	200	10.8	7.8	98.7	106
	200	325	295	200	10.8	8.4	103	110
	250	375	300	200	10.8	9	118	125
	300	435	310	200	10.8	9.6	128	138
	350	495	315	200	10.8	10.2	139	149
	400	560	320	200	10.8	10.8	152	163
450	100	215	320	200	11.4	7.2	107	114
	150	270	320	200	11.4	7.8	116	123
	200	325	320	200	11.4	8.4	127	133
	250	375	325	200	11.4	9	138	144
	300	445	335	200	11.4	9.6	150	159
	350	495	340	200	11.4	10.2	162	171
	400	560	345	200	11.4	10.8	170	181
500	450	620	350	200	11.4	11.4	185	193
	100	215	345	200	12	7.2	115	120
	150	275	345	200	12	7.8	136	141
	200	330	345	200	12	8.4	140	145
	250	380	350	200	12	9	161	165
	300	450	360	200	12	9.6	174	182
	350	500	365	200	12	10.2	186	194
	400	565	370	200	12	10.8	199	207
600	450	620	375	200	12	11.4	212	228
	500	680	380	200	12	12	231	237
	100	220	395	200	13.2	7.2	165	169
	150	285	395	200	13.2	7.8	180	180
	200	340	395	200	13.2	8.4	183	183
	250	380	400	200	13.2	9	210	210
	300	455	410	200	13.2	9.6	227	234
	350	500	415	200	13.2	10.2	241	245
	400	570	420	200	13.2	10.8	252	256
700	450	620	425	200	13.2	11.4	274	277
	500	685	430	200	13.2	12	287	289
	600	800	440	200	13.2	13.2	334	332
	100	345	445	200	14.4	7.2	225	248
	150	345	445	200	14.4	7.8	241	253
	200	345	445	200	14.4	8.4	264	258
	300	575	460	200	14.4	9.6	301	290
800	400	575	470	200	14.4	10.8	336	329
	500	810	460	200	14.4	12	380	370
	600	810	490	200	14.4	13.2	435	424
	700	925	500	200	14.4	14.4	511	499
	100	207	495	200	15.6	7.2	287	277
800	150	265	495	200	15.6	7.8	307	298
	200	320	495	200	15.6	8.4	330	307
	300	465	510	200	15.6	9.6	374	351

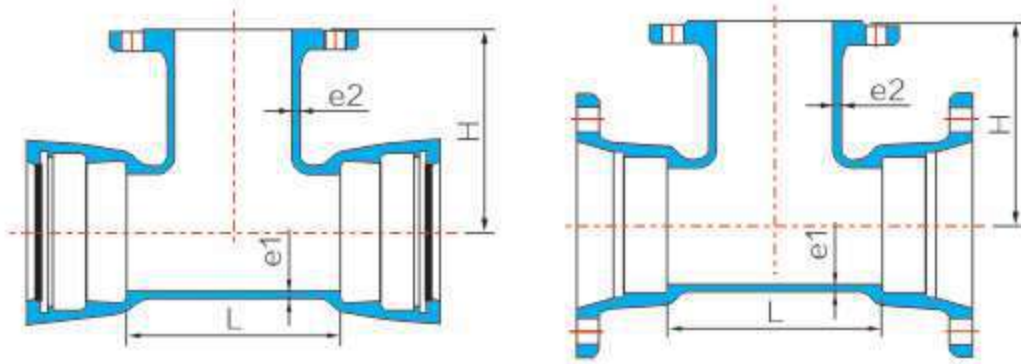
(Unit:mm)

DN	dn	L	H	S	e1	e2	Mass(kg)	
							T	K
800	400	580	520	200	15.6	10.8	420	391
	500	815	530	200	15.6	12	472	460
	600	815	540	200	15.6	13.2	593	581
	700	1045	550	200	15.6	14.4	640	611
	800	1045	565	200	15.6	15.6	665	641
900	100	355	545	200	16.8	7.2	415	403
	150	355	545	200	16.8	7.8	421	409
	200	355	545	200	16.8	8.4	429	416
	300	590	570	200	16.8	9.6	490	475
	400	590	570	200	16.8	10.8	527	515
	500	820	590	200	16.8	12	720	705
	600	820	590	200	16.8	13.2	804	789
	700	1050	615	200	16.8	14.4	840	820
	800	1050	615	200	16.8	15.6	874	846
1000	100	360	595	250	18	7.2	505	493
	150	360	595	250	18	7.8	510	500
	200	360	595	250	18	8.4	515	504
	300	595	620	250	18	9.6	620	606
	400	595	620	250	18	10.8	630	614
	500	830	640	250	18	12	941	926
	600	830	640	250	18	13.2	966	955
	700	1055	665	250	18	14.4	1020	1002
	800	1055	665	250	18	15.6	1087	1060
	900	1290	685	250	18	16.8	1100	1070
	1000	1290	685	250	18	18	1167	1137
1100	200	370	650	250	19.2	8.4	655	554
	400	606	670	250	19.2	10.8	854	649
	600	830	690	250	19.2	13.2	997	796
	800	1065	715	250	19.2	15.6	1258	960
	1000	1295	735	250	19.2	18	1449	1146
	1100	1410	745	250	19.2	19.2	1571	1241
1200	100	375	700	250	20.4	7	712	649
	150	375	700	250	20.4	7.8	718	686
	200	375	700	250	20.4	8.4	725	726
	300	605	720	250	20.4	9.6	890	745
	400	605	720	250	20.4	10.8	903	755
	500	715	740	250	20.4	12	966	900
	600	840	740	250	20.4	13.2	1064	925
	700	955	765	250	20.4	14.4	1243	
	800	1070	765	250	20.4	15.6	1374	1332
	900	1185	785	250	20.4	16.8	1510	1460
	1000	1300	785	250	20.4	18	1582	1530
	1200	1535	805	250	20.4	20.4	1825	1751
1400	100	385	820	300	22.8	7.2	885	885

(Unit:mm)

DN	dn	L	H	S	e1	e2	Mass(kg)	
							T	K
1400	200	385	820	300	22.8	8.4	890	891
	400	800	820	300	22.8	10.8	1096	1098
	600	1030	840	300	22.8	13.2	1304	1412
	800	1260	865	300	22.8	15.6	1527	1631
	1000	1495	885	300	22.8	18	1774	1876
	1200	1725	905	300	22.8	20.4	2049	2123
1600	1400	1960	930	300	22.8	22.8	2323	2426
	100	400	920	300	25.2	7.2	-	1176
	200	400	920	300	25.2	8.4	-	1183
	400	810	920	300	25.2	10.8	-	1435
	600	1040	940	300	25.2	13.2	-	1792
	800	1275	965	300	25.2	15.6	-	2064
	1000	1505	985	300	25.2	18	-	2349
	1200	1740	1010	300	25.2	20.4	-	2646
	1400	1970	1030	300	25.2	22.8	-	2978
	1600	2200	1050	300	25.2	25.2	-	3332
1800	100	410	1020	-	27.6	7.2	-	1520
	200	410	1020	-	27.6	8.4	-	1525
	400	820	1020	-	27.6	10.8	-	1831
	600	1055	1040	-	27.6	13.2	-	2337
	800	1285	1065	-	27.6	15.6	-	2656
	1000	1520	1085	-	27.6	18	-	2998
	1200	1750	1110	-	27.6	20.4	-	3339
	1400	1980	1130	-	27.6	22.8	-	3717
	1600	2215	1150	-	27.6	25.2	-	4117
	1800	2445	1175	-	27.6	27.6	-	4563
2000	200	420	1120	-	30	8.4	-	2020
	400	830	1120	-	30	10.8	-	2299
	600	1065	1140	-	30	13.2	-	2855
	800	1300	1165	-	30	15.6	-	3241
	1000	1530	1185	-	30	18	-	3633
	1200	1760	1210	-	30	20.4	-	4030
	1400	1995	1230	-	30	22.8	-	4469
	1600	2225	1250	-	30	25.2	-	4912
	1800	2460	1275	-	30	27.6	-	5408
	2000	2690	1295	-	30	30	-	5935
2200	600	1080	1240	-	32.4	13.2	-	3600
	800	1310	1265	-	32.4	15.6	-	3842
	1000	1540	1285	-	32.4	18	-	4296
	1200	1775	1310	-	32.4	20.4	-	4763
	1400	2005	1330	-	32.4	22.8	-	5252
	1600	2240	1350	-	32.4	25.2	-	5760
	1800	2470	1375	-	32.4	27.6	-	6302
	2000	2700	1395	-	32.4	30	-	6873
	2200	2935	1415	-	32.4	32.4	-	7495

● Double Socket Tee with Flange Branch for DI Pipe



(Unit:mm)

DN	dn	L	H	e1	e2	Mass (kg)					
						T			K		
						PN10	PN16	PN25	PN10	PN16	PN25
80	80	170	165	7	7	14.7	14.7	14.7	16.7	16.7	16.7
100	80	170	175	7.2	7	17.5	17.5	17.5	19.7	19.7	19.7
	100	190	180	7.2	7.2	18.9	18.9	18.9	21	21	21.5
125	80	170	190	7.5	7	19.4	19.4	19.4	25	25	25
	100	195	195	7.5	7.2	21	21	21	26.6	26.6	27.1
	125	200	200	7.5	7.5	23	23	23	28.5	28.5	28.5
150	80	170	205	7.8	7	25.5	25.5	25.5	28.5	28.5	28.5
	100	195	210	7.8	7.2	27	27	27.5	30.5	30.5	31
	150	255	220	7.8	7.8	32.5	32.5	33.5	35.5	35.5	36.5
200	80	175	235	8.4	7	36.5	36.5	36.5	36.5	36.5	36.5
	100	200	240	8.4	7.2	38.5	38.5	39	38.5	38.5	39
	150	255	250	8.4	7.8	44.5	44.5	45.5	41.5	44.5	46.5
	200	315	260	8.4	8.4	51.5	51	53	51.5	51	53
250	80	200	270	9	7	47	47	47	47	47	47
	100	200	270	9	7.2	47.5	47.5	47.5	48	48	48.5
	150	255	280	9	7.8	59	59	59	60	59	60
	200	315	290	9	8.4	62.5	62.5	60	64	62	64
300	250	375	300	9	9	71	71	71	74.5	71	74.5
	80	205	300	9.6	7	54.5	54.5	54.5	64	64	64
	100	205	300	9.6	7.2	55	55	55	65.5	65	65.5
	150	320	320	9.6	7.8	68.5	68.5	68.5	69.5	78.5	79.5
	200	320	320	9.6	8.4	72	72	71.5	73.5	81.5	83.5
250	375	330	9.6	9	83	83	81	85	91	96	

(Unit:mm)

DN	dn	L	H	e1	e2	Mass (kg)					
						T			K		
						PN10	PN16	PN25	PN10	PN16	PN25
300	300	435	340	9.6	9.6	92	92	91.5	97	102	107
350	100	205	330	10.2	7.2	71	71	71	71.5	76.5	77
	150	260	340	10.2	7.8	82.3	82.3	81.3	83.3	93	94
	200	325	350	10.2	8.4	90.5	90.5	90.5	96.5	96.5	98
	250	375	360	10.2	9	103	103	104	115	115	120
	300	400	370	10.2	9.6	113	113	118	118	118	123
	350	495	380	10.2	10.2	123	123	126	134	132	139
400	100	210	360	10.8	7.2	84	84	84	84.5	91	91.5
	150	323	380	10.8	7.8	102	102	102	103	109	110
	200	325	380	10.8	8.4	105	105	105	107	112	114
	250	375	390	10.8	9	119	119	118	122	128	132
	300	440	400	10.8	9.6	129	129	129	134	136	142
	350	495	410	10.8	10.2	143	143	146	153	156	163
450	400	560	420	10.8	10.8	155	155	160	171	167	178
	100	215	395	11.4	7.2	98.5	98.5	99	106	106	107
	150	330	410	11.4	7.8	119	119	120	127	127	128
	200	330	410	11.4	8.4	122	122	124	130	130	132
	250	375	420	11.4	9	141	140	140	149	149	153
	300	445	430	11.4	9.6	149	149	154	157	157	162
500	350	495	440	11.4	10.2	166	169	169	174	177	186
	400	560	450	11.4	10.8	177	181	192	185	189	200
	450	620	460	11.4	11.4	192	200	211	200	208	219
	100	215	420	12	7.2	114	114	114	120	120	120
	150	330	440	12	7.8	137	137	138	143	143	144
	200	330	440	12	8.4	140	140	142	147	146	148
600	250	380	450	12	9	165	165	169	172	171	177
	300	450	460	12	9.6	171	171	176	177	177	182
	350	500	470	12	10.2	192	192	203	198	201	210
	400	565	480	12	10.8	201	206	217	207	212	223
	450	620	490	12	11.4	220	228	244	226	235	250
	500	680	500	12	12	236	249	260	242	256	266
600	100	220	480	13.2	7.2	146	146	147	152	152	153
	150	285	490	13.2	7.8	177	177	178	183	183	184
	200	340	500	13.2	8.4	189	189	191	187	187	188
	250	380	510	13.2	9	209	208	212	215	215	218
	300	455	520	13.2	9.6	216	216	221	222	222	227
	350	500	530	13.2	10.2	252	255	263	247	251	260
	400	570	540	13.2	10.8	252	257	268	258	263	274
	450	620	550	13.2	11.4	285	293	309	281	289	305
	500	685	560	13.2	12	304	309	331	301	305	327
	600	800	580	13.2	13.2	338	362	374	345	368	380

(Unit:mm)

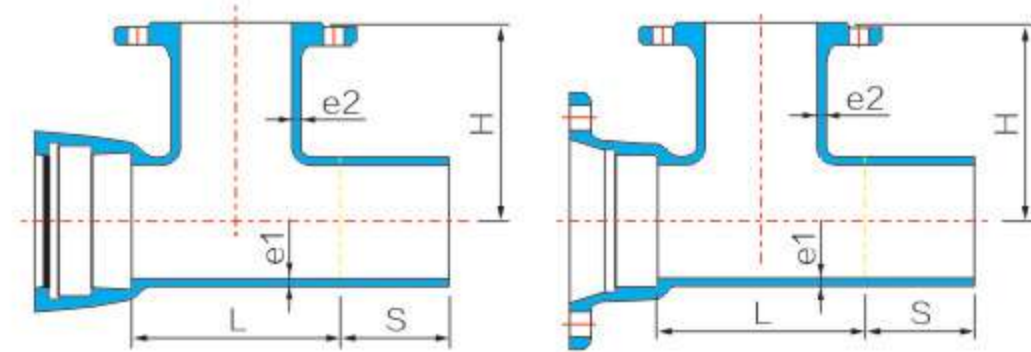
DN	dn	L	H	e1	e2	Mass (kg)					
						T			K		
						PN10	PN16	PN25	PN10	PN16	PN25
700	100	345	525	14.4	7.2	242	242	243	243	243	244
	150	345	525	14.4	7.8	254	258	247	246	246	247
	200	345	525	14.4	8.4	279	279	281	250	249	251
	300	460	540	14.4	9.6	300	300	306	301	301	307
	400	575	555	14.4	10.8	329	333	344	329	334	345
	500	690	570	14.4	12	405	418	418	392	407	409
	600	810	585	14.4	13.2	421	445	456	422	445	457
	700	925	600	14.4	14.4	476	487	520	476	488	521
800	100	350	585	15.6	7.2	304	304	305	295	295	295
	150	350	585	15.6	7.8	308	308	309	298	298	299
	200	350	585	15.6	8.4	311	311	313	302	301	303
	300	580	600	15.6	9.6	371	371	377	362	362	368
	400	580	615	15.6	10.8	405	410	421	396	401	412
	500	815	630	15.6	12	522	537	549	513	528	540
	600	1045	645	15.6	13.2	588	612	624	579	603	614
	700	1045	660	15.6	14.4	620	635	669	611	626	660
800	1045	675	15.6	15.6	640	655	708	631	646	699	
900	100	355	630	16.8	7.2	378	378	378	365	365	366
	150	355	640	16.8	7.8	381	381	382	368	368	369
	200	355	645	16.8	8.4	385	384	386	371	371	373
	300	590	660	16.8	9.6	455	455	461	442	442	448
	400	590	675	16.8	10.8	497	502	513	484	488	499
	500	820	690	16.8	12	666	681	693	653	668	690
	600	1170	705	16.8	13.2	758	782	794	745	769	760
	700	1170	720	16.8	14.4	788	803	837	775	790	824
	800	1170	735	16.8	15.6	808	823	876	795	810	863
900	1170	750	16.8	16.8	835	854	920	822	841	907	
1000	100	360	690	18	7.2	461	461	462	451	451	452
	150	360	700	18	7.8	464	464	465	451	451	452
	200	360	705	18	8.4	467	467	469	455	455	457
	300	595	720	18	9.6	552	552	558	552	552	558
	400	595	735	18	10.8	598	603	614	586	591	602
	500	830	750	18	12	852	867	879	852	867	879
	600	1290	765	18	13.2	958	982	994	946	970	981
	700	1290	780	18	14.4	985	1000	1032	985	1000	1032
	800	1290	795	18	15.6	1006	1021	1074	994	1009	1074
900	1290	810	18	16.8	1032	1076	1137	1052	1076	1137	
1000	1290	825	18	18	1044	1086	1192	1059	1094	1192	
1100	200	370	765	19.2	8.4	782	782	784	531	531	533
	400	600	795	19.2	10.8	930	934	945	680	680	695
	600	830	825	19.2	13.2	1079	1103	1114	836	860	871

(Unit:mm)

DN	dn	L	H	e1	e2	Mass (kg)					
						T			K		
						PN10	PN16	PN25	PN10	PN16	PN25
1100	800	1065	855	19.2	15.6	1321	1335	1388	1015	1029	1082
	1000	1295	885	19.2	18	1560	1595	1681	1205	1240	1326
	1100	1410	900	19.2	19.2	1679	1714	1814	1313	1348	1448
1200	100	375	810	20.4	7.2	763	763	763	676	676	676
	150	375	820	20.4	7.8	806	806	806	678	678	678
	200	375	825	20.4	8.4	882	882	884	718	718	720
	300	605	840	20.4	9.6	917	917	923	769	769	775
	400	605	855	20.4	10.8	952	956	967	787	792	803
	500	840	870	20.4	12	980	1018	1044	958	973	995
	600	840	885	20.4	13.2	1031	1055	1067	967	991	1003
	700	1070	900	20.4	14.4	1169	1184	1218	1169	1184	1218
	800	1070	915	20.4	15.6	1227	1242	1295	1262	1277	1295
900	1300	930	20.4	16.8	1367	1427	1452	1367	1427	1452	
1000	1300	945	20.4	18	1436	1470	1556	1372	1506	1556	
1200	1535	975	20.4	20.4	1682	1736	1846	1617	1672	1846	
1400	100	385	910	22.8	7.2	1120	1120	1120	1120	1120	1120
	200	385	920	22.8	8.4	1189	1189	1189	1189	1189	1189
	400	800	950	22.8	10.8	1357	1368	1374	1221	1226	1237
	600	1030	980	22.8	13.2	1478	1505	1519	1441	1464	1519
	800	1260	1010	22.8	15.6	1709	1728	1777	1677	1692	1777
	1000	1495	1040	22.8	18	1955	1996	2075	1929	1964	2075
	1200	1725	1070	22.8	20.4	2375	2439	2539	2205	2260	2539
1400	1960	1100	22.8	22.8	2697	2765	2917	2501	2557	2917	
1600	100	400	1020	25.2	7.2	1261	1261	-	1261	1261	1261
	200	400	1030	25.2	8.4	1361	1361	-	1361	1361	1361
	400	810	1060	25.2	10.8	1561	1565	-	1561	1565	1576
	600	1040	1090	25.2	13.2	1908	1934	-	1831	1854	1866
	800	1275	1120	25.2	15.6	2192	2211	-	2121	2136	2189
	1000	1505	1150	25.2	18	2480	2522	-	2416	2451	2536
	1200	1740	1180	25.2	20.4	2799	2863	-	2743	2798	2907
1400	1970	1210	25.2	22.8	3129	3186	-	3073	3130	3293	
1600	2200	1240	25.2	25.2	3517	4607	-	3461	3551	3741	
1800	100	410	1130	27.6	7.2	-	-	-	1742	1742	1742
	200	410	1140	27.6	8.4	-	-	-	1842	1842	1842
	400	820	1170	27.6	10.8	-	-	-	2042	2046	2059
	600	1055	1200	27.6	13.2	2414	2440	-	2302	2326	2337
	800	1285	1230	27.6	15.6	2748	2767	-	2642	2657	2710
	1000	1520	1260	27.6	18	3095	3137	-	2998	3032	3118
	1200	1750	1290	27.6	20.4	3460	3524	-	3371	3426	3535
	1400	1980	1320	27.6	22.8	-	-	-	3750	3807	3970
1600	2215	1350	27.6	25.2	-	-	-	4188	4277	4498	

(Unit:mm)

DN	dn	L	H	e1	e2	Mass (kg)					
						T			K		
						PN10	PN16	PN25	PN10	PN16	PN25
1800	1800	2445	1380	27.6	27.6	-	-	1261	4624	4735	4990
2000	200	420	1250	30	8.4	-	-	1361	2230	2230	2232
	400	830	1280	30	10.8	-	-	1576	2530	2534	2547
	600	1065	1310	30	13.2	2988	3015	1942	2830	2853	2865
	800	1300	1340	30	15.6	-	-	2264	3239	3254	3307
	1000	1530	1370	30	18	3790	3832	2607	3648	3682	3768
	1200	1760	1400	30	20.4	-	-	2962	4079	4134	4243
	1400	1995	1430	30	22.8	4645	4713	3349	4532	4580	4743
	1600	2228	1460	30	25.2	-	-	4792	5007	5097	5287
	1800	2460	1490	30	27.6	-	-	-	5497	5609	5863
2000	2690	1520	30	30	-	-	-	6030	6168	6506	
2200	600	1080	1420	32.4	13.2	3647	3674	-	3510	3507	-
	800	1310	1450	32.4	15.6	-	-	-	3873	3888	-
	1000	1540	1480	32.4	18	-	-	-	4347	4381	-
	1200	1775	1510	32.4	20.4	5055	5119	-	4851	4906	-
	1400	2005	1540	32.4	22.8	-	-	-	5349	5406	-
	1600	2240	1570	32.4	25.2	-	-	-	5903	5992	-
	1800	2470	1600	32.4	27.6	6579	6705	-	6442	6553	-
2000	2700	1630	32.4	30	-	-	-	7022	7160	-	
2200	2935	1660	32.4	32.4	-	-	-	7688	7858	-	
2400	600	1090	1530	34.8	13.2	-	-	-	4085	4111	-
	800	1320	1560	34.8	15.6	4383	4409	-	4566	4581	-
	1000	1555	1590	34.8	18	-	-	-	5119	5154	-
	1200	1785	1620	34.8	20.4	6005	6069	-	5682	5737	-
	1400	2020	1650	34.8	22.8	-	-	-	6257	6314	-
	1600	2250	1680	34.8	25.2	-	-	-	6866	6955	-
	1800	2480	1710	34.8	27.6	7734	7860	-	7168	7579	-
	2000	2715	1740	34.8	30	-	-	-	8120	8258	-
	2200	2945	1770	34.8	32.4	-	-	-	8826	8996	-
2400	3180	1800	34.8	34.8	-	-	-	9614	9842	-	
2600	600	1100	1640	37.2	13.2	5205	5231	-	4955	4971	-
	800	1335	1670	37.2	15.6	-	-	-	5553	5568	-
	1000	1565	1700	37.2	18	-	-	-	6175	6210	-
	1200	1800	1730	37.2	20.4	-	-	-	6829	6884	-
	1400	2030	1750	37.2	22.8	7704	7772	-	7471	7528	-
	1600	2260	1790	37.2	25.2	-	-	-	8155	8244	-
	1800	2495	1820	37.2	27.6	-	-	-	8842	8954	-
	2000	2725	1850	37.2	30	9713	9866	-	9553	9691	-
	2200	2960	1880	37.2	32.4	-	-	-	10339	10510	-
2400	3190	1910	37.2	34.8	-	-	-	11173	11401	-	
2600	3420	1940	37.2	37.2	-	-	-	11973	12226	-	

Socket spigot Tee with Flange Branch for DI Pipe


(Unit:mm)

DN	dn	L	H	S	e1	e2	Mass (kg)					
							T			K		
							PN10	PN16	PN25	PN10	PN16	PN25
80	80	170	165	150	7	7	14	14	14	15.8	15.8	15.8
100	80	170	170	150	7.2	7	16.4	16.4	16.4	18.7	18.7	18.7
	100	190	180	150	7.2	7.2	17.8	17.8	17.8	20.1	20.1	20.1
150	80	170	205	200	7.8	7	23.7	23.7	23.7	26.1	26.1	26.1
	100	195	210	200	7.8	7.2	25.5	25.5	25.8	27.6	27.6	27.6
150	150	255	220	200	7.8	7.8	30.2	30.2	31.2	32.7	32.7	33
	200	315	260	200	8.4	8.4	46.6	47	48.5	48.6	49	50.5
200	80	175	235	200	8.4	7	32.5	32.5	32.5	34.5	34.5	34.5
	100	200	240	200	8.4	7.2	34.3	34.3	34.3	36.3	36.3	36.3
	150	255	250	200	8.4	7.8	40.2	40.2	40.2	42.2	42.2	43.2
	200	315	260	200	8.4	8.4	46.6	47	48.5	48.6	49	50.5
250	80	200	270	200	9	7	43.4	43.4	43.4	44.8	44.8	44.8
	100	200	270	200	9	7.2	44.9	44.9	44.9	46.4	46.4	46.9
	150	255	280	200	9	7.8	57.3	57.3	58.3	58.7	58.7	59.7
	200	315	290	200	9	8.4	57.7	57.7	59.7	59.1	59.1	61.1
250	250	375	300	200	9	9	65.7	66.7	69.7	67.1	68.1	71.1
	100	205	300	200	9.6	7.2	57.5	58.5	58.5	62.9	63.9	63.9
	150	260	310	200	9.6	7.8	70.9	71.9	71.9	76.3	77.3	78.9
	200	320	320	200	9.6	8.4	73.5	75.5	82.5	78.9	80.9	87.9
300	250	375	330	200	9.6	9	85.8	87.5	91.5	90.5	90.5	95.5
	300	435	340	200	9.6	9.6	91.9	97.5	105	97.3	103	110
	100	205	330	200	10.2	7.2	70.2	70.2	70.2	75.2	75.2	75.2
350	150	260	340	200	10.2	7.8	85.2	85.2	85.2	90.2	90.2	90.2
	200	325	350	200	10.2	8.4	87.7	87.7	89.7	92.7	92.7	94.7

(Unit:mm)

DN	dn	L	H	S	e1	e2	Mass (kg)					
							T			K		
							PN10	PN16	PN25	PN10	PN16	PN25
350	250	375	360	200	10.2	9	110	116	127	110	120	131
	300	435	370	200	10.2	9.6	114	120	131	122	124	135
	350	495	380	200	10.2	10.2	121	123	132	125	127	136
400	100	210	360	200	10.8	7.2	84.2	84.2	84.2	89.2	89.2	89.7
	150	265	370	200	10.8	7.8	99.8	99.8	99.8	104	104	104
	200	325	380	200	10.8	8.4	105	105	106	108	110	112
	250	375	390	200	10.8	9	120	120	123	125	125	129
	300	435	400	200	10.8	9.6	133	133	139	137	137	143
	350	495	410	200	10.8	10.2	146	146	155	148	151	160
450	100	215	395	200	11.4	7.2	106	107	107	110	111	111
	150	270	400	200	11.4	7.8	120	120	124	124	123	127
	200	325	410	200	11.4	8.4	130	130	132	134	134	136
	250	375	420	200	11.4	9.0	141	140	144	144	144	148
	300	445	430	200	11.4	9.6	156	155	161	158	158	164
	350	495	440	200	11.4	10.2	165	167	177	169	172	181
	400	560	450	200	11.4	10.8	180	185	196	172	176	187
500	100	215	420	200	12.0	7.2	116	116	119	119	119	119
	150	275	430	200	12.0	7.8	138	137	138	140	140	141
	200	330	440	200	12.0	8.4	142	141	143	145	144	146
	250	380	450	200	12.0	9.0	165	164	168	168	167	171
	300	450	460	200	12.0	9.6	178	178	183	181	181	186
	350	500	470	200	12.0	10.2	192	195	203	194	197	206
	400	565	480	200	12.0	10.8	198	204	215	201	201	218
	450	620	490	200	12.0	11.4	219	227	243	222	230	245
600	100	220	480	200	13.2	7.2	166	166	167	164	164	165
	150	285	490	200	13.2	7.8	183	183	184	181	181	182
	200	340	500	200	13.2	8.4	188	188	196	182	182	184
	250	380	510	200	13.2	9.0	215	215	218	213	213	216
	300	455	520	200	13.2	9.6	231	230	235	228	228	233
	350	500	530	200	13.2	10.2	247	250	258	245	248	256
	400	570	540	200	13.2	10.8	253	258	269	251	256	267
	450	620	550	200	13.2	11.4	279	288	303	277	286	301
	500	685	560	200	13.2	12.0	299	303	326	297	301	324
	600	800	580	200	13.2	13.2	323	349	363	331	354	366
700	100	345	510	200	14.4	7.2	244	243	244	243	243	244
	150	345	520	200	14.4	7.8	246	246	247	246	246	247
	200	345	525	200	14.4	8.4	249	249	251	249	249	251

(Unit:mm)

DN	dn	L	H	S	e1	e2	Mass (kg)					
							T			K		
							PN10	PN16	PN25	PN10	PN16	PN25
700	300	575	540	200	14.4	9.6	300	300	306	301	301	307
	400	575	555	200	14.4	10.8	329	333	344	329	334	345
	500	810	570	200	14.4	12.0	391	406	418	392	407	419
	600	810	585	200	14.4	13.2	421	445	456	400	423	435
	700	925	600	200	14.4	14.4	476	487	525	476	487	525
800	100	350	570	200	15.6	7.2	304	304	305	295	285	295
	150	350	580	200	15.6	7.8	308	308	309	298	298	299
	200	350	585	200	15.6	8.4	311	311	313	302	301	303
	300	580	600	200	15.6	9.6	371	371	317	362	362	368
	400	580	615	200	15.6	10.8	405	410	421	396	401	412
	500	815	630	200	15.6	12.0	522	537	549	513	528	540
	600	815	645	200	15.6	13.2	588	612	624	579	603	614
	700	1045	660	200	15.6	14.4	620	635	669	626	634	660
900	100	355	630	250	16.8	7.2	378	378	378	365	365	366
	150	355	640	250	16.8	7.8	381	381	382	368	368	369
	200	355	645	250	16.8	8.4	385	384	386	371	371	373
	300	590	660	250	16.8	9.6	455	455	461	442	442	448
	400	590	675	250	16.8	10.8	497	502	503	484	488	499
	500	820	690	250	16.8	12.0	666	681	693	653	668	690
	600	820	705	250	16.8	13.2	758	782	794	745	769	783
	700	1050	720	250	16.8	14.4	788	803	837	775	790	824
	800	1050	735	250	16.8	15.6	835	854	920	822	840	907
	900	1170	750	250	16.8	16.8	861	881	960	850	881	960
1000	100	360	690	250	18.0	7.2	461	461	462	461	461	462
	150	360	700	250	18.0	7.8	464	467	469	464	464	469
	200	360	705	250	18.0	8.4	521	521	525	521	521	525
	300	595	720	250	18.0	9.6	552	552	558	552	552	558
	400	595	735	250	18.0	10.8	598	603	614	598	598	614
	500	830	750	250	18.0	12.0	852	867	879	852	867	879
	600	830	765	250	18.0	13.2	958	982	994	958	982	994
	700	1055	780	250	18.0	14.4	985	1000	1032	986	1000	1032
	800	1055	795	250	18.0	15.6	1006	1021	1077	1006	1021	1074
	900	1290	810	250	18.0	16.8	1052	1076	1137	1062	1076	1137
1100	1000	1290	825	250	18.0	18.0	1072	1106	1192	1072	1106	1192
	200	370	765	250	19.2	8.4	727	727	729	505	505	507
	400	606	795	250	19.2	10.8	875	879	890	654	658	669
	600	830	825	250	19.2	13.2	1024	1048	1059	810	834	845
	800	1065	855	250	19.2	15.6	1266	1280	1317	989	1003	1040

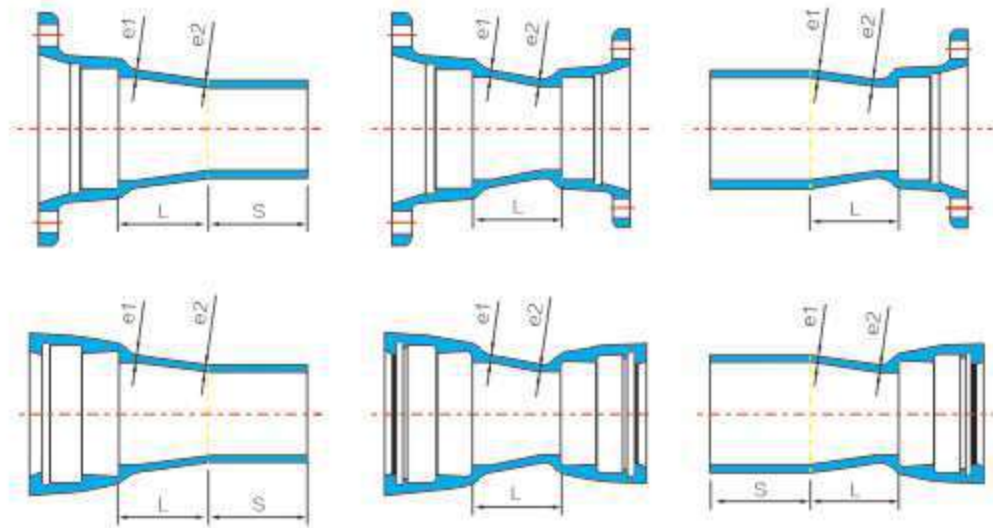
(Unit:mm)

DN	dn	L	H	S	e1	e2	Mass (kg)					
							T			K		
							PN10	PN16	PN25	PN10	PN16	PN25
1100	1100	1410	900	250	19.2	19.2	1624	1659	1757	1287	1322	1420
1200	100	375	810	250	20.4	7.2	676	676	676	676	676	676
	150	375	820	250	20.4	7.8	678	678	678	678	678	678
	200	375	825	250	20.4	8.4	765	765	767	693	693	695
	300	605	840	250	20.4	9.6	769	769	775	769	769	775
	400	605	855	250	20.4	10.8	830	835	846	862	867	878
	500	840	870	250	20.4	12.0	880	890	900	880	890	900
	600	840	885	250	20.4	13.2	925	925	964	915	966	978
	700	1070	900	250	20.4	14.4	1080	1095	1128	1080	1095	1128
	800	1070	915	250	20.4	15.6	1115	1135	1188	1137	1152	1205
	900	1300	930	250	20.4	16.8	1290	1314	1360	1290	1314	1360
1000	1300	945	250	20.4	18.0	1331	1373	1459	1347	1381	1467	
1200	1535	975	250	20.4	20.4	1997	1943	2053	1592	1647	1757	
1400	100	385	910	300	22.8	7.2	1120	1120	1120	1120	1120	1120
	200	385	920	300	22.8	8.4	1189	1189	1189	1189	1189	1189
	400	800	950	300	22.8	10.8	1353	1368	1374	1211	1216	1227
	600	1030	980	300	22.8	13.2	1452	1479	1519	1431	1454	1466
	800	1260	1010	300	22.8	15.6	1683	1702	1777	1667	1682	1777
	1000	1495	1040	300	22.8	18.0	1929	1970	2075	1919	1954	2075
	1200	1725	1070	300	22.8	20.4	2375	2475	2439	2195	2250	2539
	1400	1960	1100	300	22.8	22.8	2697	2765	2917	2491	2547	2917
1600	100	400	1020	300	25.2	7.2	1261	1261	1261	1261	1261	1261
	200	400	1030	300	25.2	8.4	1361	1361	1361	1361	1361	1361
	400	810	1060	300	25.2	10.8	1561	1576	1576	1547	1551	1561
	600	1040	1090	300	25.2	13.2	1853	1879	1891	1817	1840	1852
	800	1275	1120	300	25.2	15.6	2137	2156	2170	2107	2122	2136
	1000	1505	1150	300	25.2	18.0	2425	2467	2516	2402	2437	2486
	1200	1740	1180	300	25.2	20.4	2744	2808	2887	2729	2784	2863
	1400	1970	1210	300	25.2	22.8	3073	3130	3293	3059	3116	3216
	1600	2200	1240	300	25.2	25.2	3461	3551	3741	3447	3537	3689
1800	100	410	1130	380	27.6	7.2	1742	1742	1742	1742	1742	1742
	200	410	1140	380	27.6	8.4	1842	1842	1842	1842	1842	1842
	400	820	1170	380	27.6	10.8	2042	2042	2042	2042	2042	2042
	600	1055	1200	380	27.6	13.2	2423	2449	2475	2367	2391	2442
	800	1285	1230	380	27.6	15.6	2757	2776	3012	2707	2722	2796
	1000	1520	1260	380	27.6	18.0	3104	3146	3223	3063	3097	3183
	1200	1750	1290	380	27.6	20.4	3469	3583	3621	3436	3491	3592
	1400	1980	1320	380	27.6	22.8	3750	3807	3970	3815	3872	4000
	1600	2215	1350	380	27.6	25.2	4188	4277	4468	4253	4342	4480
	1800	2445	1380	380	27.6	27.6	4624	4735	4990	4689	4800	5000

(Unit:mm)

DN	dn	L	H	S	e1	e2	Mass (kg)					
							T			K		
							PN10	PN16	PN25	PN10	PN16	PN25
2000	200	420	1250	380	30	8.4	2230	2230	2232	2230	2230	2232
	400	830	1280	380	30	10.8	2530	2534	2547	2530	2534	2547
	600	1065	1310	380	30	13.2	2965	2992	3004	2892	2915	2927
	800	1300	1340	380	30	15.6	3301	3316	3337	3301	3316	3337
	1000	1530	1370	380	30	18.0	3767	3809	3942	3710	3744	3788
	1200	1760	1400	380	30	20.4	4141	4196	4243	4141	4196	4243
	1400	1995	1430	380	30	22.8	4622	4690	4740	4582	4642	4743
	1600	2225	1460	380	30	25.2	5069	5159	5287	5069	5159	5287
	1800	2460	1490	380	30	27.6	5559	5671	5863	5559	5671	5863
	2000	2690	1520	380	30	30	6092	6230	6506	6092	6230	6506
2200	600	1080	1420	400	32.4	13.2	3616	3643	-	3548	3575	-
	800	1310	1450	400	32.4	15.6	-	-	-	3911	3926	-
	1000	1540	1480	400	32.4	18.0	-	-	-	4385	4419	-
	1200	1775	1510	400	32.4	20.4	5025	5088	-	4889	4944	-
	1400	2005	1540	400	32.4	22.8	-	-	-	5387	5444	-
	1600	2240	1570	400	32.4	25.2	-	-	-	5941	6030	-
	1800	2470	1600	400	32.4	27.6	6548	6674	-	6480	6591	-
	2000	2700	1630	400	32.4	30	-	-	-	7060	7198	-
2400	2200	2935	1660	400	32.4	32.4	-	-	-	7726	7896	-
	600	1090	1530	400	34.8	13.2	4220	4246	-	4071	4097	-
	800	1320	1560	400	34.8	15.6	-	-	-	4552	4567	-
	1000	1555	1590	400	34.8	18.0	-	-	-	5105	5140	-
	1200	1785	1620	400	34.8	20.4	5842	5906	-	5668	5723	-
	1400	2020	1650	400	34.8	22.8	-	-	-	6243	6300	-
	1600	2250	1680	400	34.8	25.2	-	-	-	6852	6941	-
	1800	2480	1710	400	34.8	27.6	7571	7697	-	7454	7565	-
	2000	2715	1740	400	34.8	30	-	-	-	8106	8244	-
2600	2200	2945	1770	400	34.8	32.4	-	-	-	8812	8982	-
	2400	3180	1800	400	34.8	34.8	-	-	-	9600	9828	-
	600	1100	1640	400	37.2	13.2	5054	5080	-	4959	4925	-
	800	1335	1670	400	37.2	15.6	-	-	-	5557	5572	-
	1000	1565	1700	400	37.2	18.0	-	-	-	6179	6214	-
	1200	1800	1730	400	37.2	20.4	-	-	-	6833	6888	-
	1400	2030	1760	400	37.2	22.8	7553	7621	-	7475	7532	-
	1600	2260	1790	400	37.2	25.2	8159	8248	-	8159	8248	-
	1800	2495	1820	400	37.2	27.6	-	-	-	8846	8958	-
	2000	2725	1850	400	37.2	30	9562	9715	-	9557	9695	-
2600	2200	2960	1880	400	37.2	32.4	-	-	-	10344	10514	-
	2400	3190	1910	400	37.2	34.8	-	-	-	11177	11405	-
	2600	3420	1940	400	37.2	37.2	-	-	-	11977	12230	-

● Double Socket Taper for DI Pipe



(Unit:mm)

DN	dn	e1	e2	L	Mass (kg)					
					Double-Socket		Socket-Spigot		Spigot-Socket	
					T	K	T	K	T	K
100	80	7.2	7	90	9.2	11.9	6.8	8.5	7.2	8.8
125	80	7.5	7	140	10.8	16.3	-	-	-	-
125	100	7.5	7.2	100	11.3	16.8	-	-	-	-
150	80	7.8	7	190	14.9	18.6	12	14.2	12.2	15.5
150	100	7.8	7.2	150	15.3	19.1	12.3	14.7	12.2	15.7
150	125	7.8	7.5	100	14.1	19.8	-	-	-	-
200	100	8.4	7.2	250	23.5	26	18.1	20.9	18.9	22.6
200	125	8.4	7.5	200	20.5	26.8	-	-	-	-
200	150	8.4	7.8	150	24	27	18.6	21.9	19.5	22.6
250	125	9	7.5	300	29	36.2	-	-	-	-
250	150	9	7.8	250	32.5	36	25.4	29.6	27.5	31.6
250	200	9	8.4	150	33	35	25.4	28.6	26.6	29.9
300	150	9.6	7.8	350	43	50	34.4	39.3	38	45.6
300	200	9.6	8.4	250	43.5	49	33.4	38.3	37.1	43.9
300	250	9.6	9	150	41.5	47.5	33.4	36.8	34.9	41.1
350	200	10.2	8.4	360	59	62.5	44.9	50.3	49.6	57.4
350	250	10.2	9	260	51	61	43.9	48.8	47.4	54.6
350	300	10.2	9.6	160	52.5	61.5	42.4	49.3	44.4	50.8
400	200	10.8	8.4	460	61.5	80.3	-	-	-	-
400	250	10.8	9	360	72	76.5	56.7	62.5	62.4	70.1
400	300	10.8	9.6	260	67.5	77	54.7	63	58.9	66.3
400	350	10.8	10.2	160	62	73	52.7	59	54.9	60.8
450	300	11.4	9.6	360	88.5	96	-	-	-	-

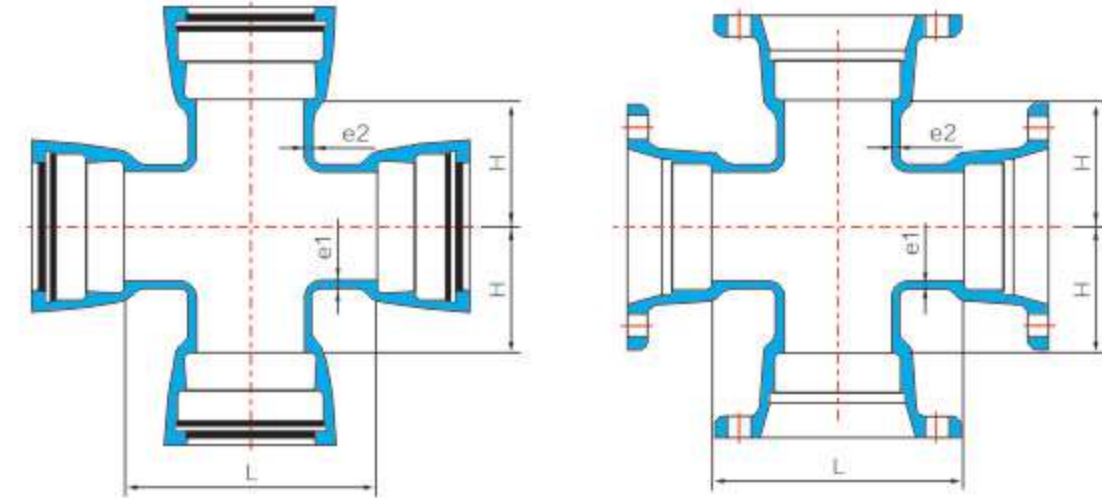
(Unit:mm)

DN	dn	e1	e2	L	Mass (kg)					
					Double-Socket		Socket-Spigot		Spigot-Socket	
					T	K	T	K	T	K
450	350	11.4	10.2	260	83	91	61	71.8	62.4	76.1
450	400	11.4	10.8	160	77.5	86.5	57.5	69.1	56.7	71.6
500	300	12	9.6	460	99.5	114	-	-	-	-
500	350	12	10.2	360	98	110	82.8	92.4	90.9	97
500	400	12	10.8	260	97	106	78.8	88.4	84.7	92
500	450	12	11.4	160	94.5	99	-	-	-	-
600	350	13.2	10.2	560	151	173	-	-	-	-
600	400	13.2	10.8	460	143	152	119	132	133	138
600	450	13.2	11.4	360	139	151	-	-	-	-
600	500	13.2	12	260	129	137	108	117	115	119
700	400	14.4	10.8	680	226	241	-	-	-	-
700	450	14.4	11.4	580	217	237	-	-	-	-
700	500	14.4	12	480	198	203	161	174	178	185
700	600	14.4	13.2	280	179	184	145	155	155	164
800	450	15.6	11.4	780	278	326	-	-	-	-
800	500	15.6	12	680	265	320	-	-	-	-
800	600	15.6	13.2	480	252	252	207	247	229	260
800	700	15.6	14.4	280	234	230	184	197	196	201
900	500	16.8	12	880	388	417	-	-	-	-
900	600	16.8	13.2	680	365	402	-	-	-	-
900	700	16.8	14.4	480	323	316	275	329	385	324
900	800	16.8	15.6	280	292	281	245	303	243	294
1000	600	18	13.2	880	446	536	-	-	-	-
1000	700	18	14.4	680	427	517	-	-	-	-
1000	800	18	15.6	480	397	386	333	413	347	418
1000	900	18	16.8	280	359	346	295	379	311	392
1100	700	19.2	14.4	870	-	536	-	-	-	-
1100	800	19.2	15.6	670	538	545	-	-	-	-
1100	900	19.2	16.8	480	-	519	-	-	-	-
1100	1000	19.2	18	300	457	495	-	-	-	-
1200	700	20.4	14.4	1080	699	667	-	-	-	-
1200	800	20.4	15.6	880	668	688	-	-	-	-
1200	900	20.4	16.8	680	630	591	-	-	-	-
1200	1000	20.4	18	480	570	637	-	-	-	-
1200	1100	20.4	19.2	300	-	525	-	-	-	-
1400	800	22.8	15.6	760	-	716	-	-	-	-
1400	900	22.8	16.8	660	-	710	-	-	-	-
1400	1000	22.8	18	560	1015	704	-	-	-	-
1400	1100	22.8	19.2	460	-	685	-	-	-	-
1400	1200	22.8	20.4	360	711	698	-	-	-	-
1500	900	24	16.8	760	-	828	-	-	-	-
1500	1000	24	18	660	-	822	-	-	-	-

(Unit:mm)

DN	dn	e1	e2	L	Mass (kg)					
					Double-Socket		Socket-Spigot		Spigot-Socket	
					T	K	T	K	T	K
1500	1100	24	19.2	560	-	803	-	-	-	-
1500	1200	24	20.4	460	-	781	-	-	-	-
1500	1400	24	22.8	260	-	742	-	-	-	-
1600	1000	25.2	18	760	-	960	-	-	-	-
1600	1100	25.2	19.2	660	-	941	-	-	-	-
1600	1200	25.2	20.4	560	-	919	-	-	-	-
1600	1400	25.2	22.8	360	951	879	-	-	-	-
1600	1500	25.2	24	260	-	841	-	-	-	-
1800	1100	27.6	19.2	860	-	1261	-	-	-	-
1800	1200	27.6	20.4	760	-	1238	-	-	-	-
1800	1400	27.6	22.8	560	-	1198	-	-	-	-
1800	1500	27.6	24	460	-	1160	-	-	-	-
1800	1600	27.6	25.2	360	1235	1123	-	-	-	-
2000	1200	30	20.4	960	-	1620	-	-	-	-
2000	1400	30	22.8	760	-	1579	-	-	-	-
2000	1500	30	24	660	-	1540	-	-	-	-
2000	1600	30	25.2	560	-	1503	-	-	-	-
2000	1800	30	27.6	360	1566	1411	-	-	-	-
2100	1200	31.2	20.4	1060	-	1820	-	-	-	-
2100	1400	31.2	22.8	860	-	1781	-	-	-	-
2100	1500	31.2	24	760	-	1742	-	-	-	-
2100	1600	31.2	25.2	660	-	1705	-	-	-	-
2100	1800	31.2	27.6	460	-	1614	-	-	-	-
2100	2000	31.2	30	260	-	1496	-	-	-	-
2200	1400	32.4	22.8	960	-	2015	-	-	-	-
2200	1500	32.4	24	860	-	1976	-	-	-	-
2200	1600	32.4	25.2	760	-	1938	-	-	-	-
2200	1800	32.4	27.6	560	-	1846	-	-	-	-
2200	2000	32.4	30	360	1948	1726	-	-	-	-
2200	2100	32.4	31.2	260	-	1645	-	-	-	-
2400	1500	34.8	24	1060	-	2609	-	-	-	-
2400	1600	34.8	25.2	960	-	2441	-	-	-	-
2400	1800	34.8	27.6	760	-	2350	-	-	-	-
2400	2000	34.8	30	560	-	2231	-	-	-	-
2400	2100	34.8	31.2	460	-	2149	-	-	-	-
2400	2200	34.8	32.4	360	2374	2071	-	-	-	-
2600	1600	37.2	25.2	1160	-	3119	-	-	-	-
2600	1800	37.2	27.6	960	-	3025	-	-	-	-
2600	2000	37.2	30	760	-	2904	-	-	-	-
2600	2100	37.2	31.2	660	-	2819	-	-	-	-
2600	2200	37.2	32.4	560	-	2741	-	-	-	-
2600	2400	37.2	34.8	360	2877	2545	-	-	-	-

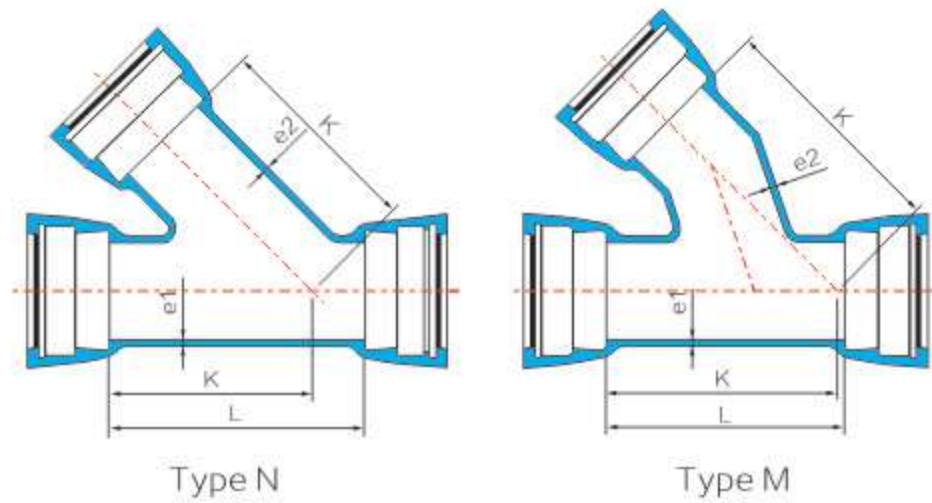
● All Socket Cross Tee for DI Pipe



(Unit:mm)

DN		L	H	e1=e2	Mass(kg)	Mass of cement
DN	dn					
80	80	330	165	7	20.5	1
100	100	360	180	7.2	24.5	1.3
150	150	440	220	7.8	41.1	2.3
200	200	520	260	8.4	61	3.5
250	250	700	350	9	101	6
300	300	800	400	9.6	143	8
350	350	850	425	10.2	188.2	16
400	400	900	450	10.8	235.8	19
450	450	950	475	11.4	286	22
500	500	1000	500	12	369.7	25
600	600	1100	550	13.2	541.9	32

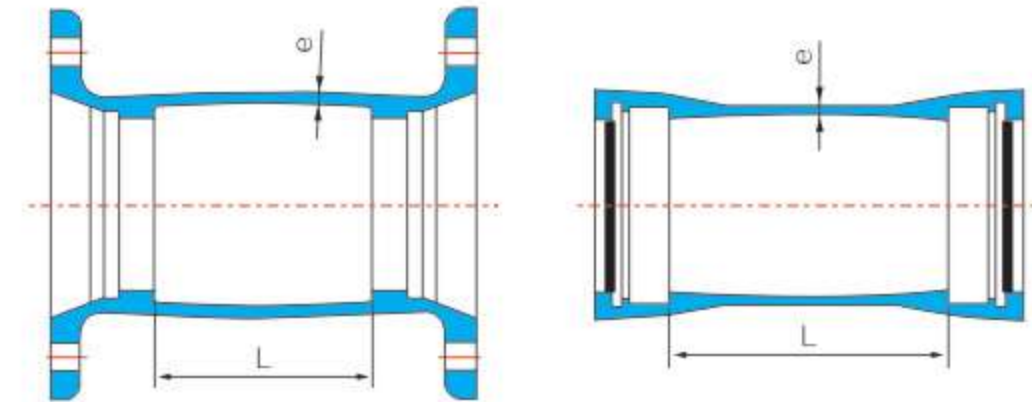
● All Socket 45° Angle Tee with Flange Branch for DI Pipe



(Unit:mm)

Nominal Diameter		Type	L	K	e1=e2	Mass(kg)	
Body DN	Branch dn					PN 16	Mass of cement
80	80	N	500	375	7	19	1.4
100	100	N	540	405	7.2	25.5	1.9
150	150	N	640	480	7.8	45.5	3.3
200	200	N	735	560	8.4	71.5	5
250	250	N	830	640	9	106	7
300	300	N	930	715	9.6	151	9
350	350	M	880	790	10.2	169	17
400	400	M	970	870	10.8	209	22
450	450	M	1060	950	11.4	281	26
500	500	M	1140	1025	12	347	31
600	600	M	1310	1180	13.2	511	43

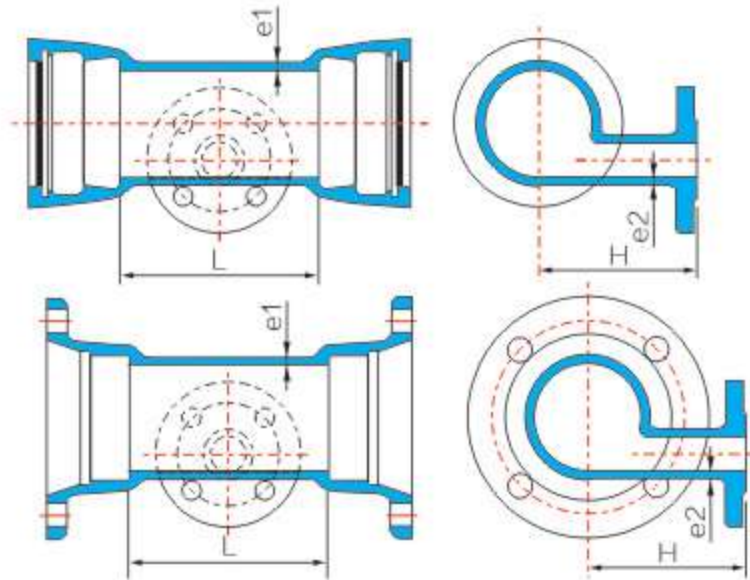
● DI Collar



(Unit:mm)

DN	L		Mass(kg)	
	Type T	Type K	Type T	Type K
80	160	160	9.3	12.9
100	160	160	12.2	15.8
125	165	165	14.1	19.7
150	165	165	17.7	23.5
200	170	170	24.6	30
250	175	175	32.9	38.5
300	180	180	42.8	54
350	185	185	57.3	67.5
400	190	190	71.6	81
450	195	195	80	96
500	200	200	104.2	109
600	210	210	146.2	140
700	220	220	192	185
800	230	230	250.6	225
900	240	240	316.2	278
1000	250	250	390.2	348
1100	260	260	465.8	407
1200	270	270	572.6	472

● Double Socket Level Invert Tee with Flanged Branch for DI Pipe



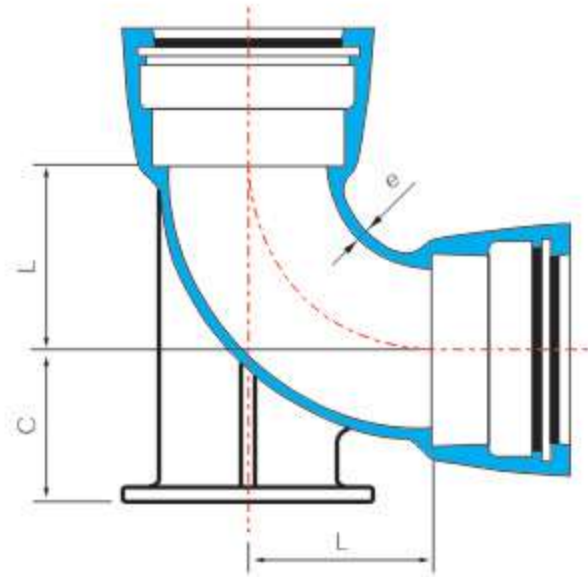
(Unit:mm)

DN		L	H	e1	e2	Mass (kg)					
Body	Branch					T Type			K Type		
						PN10	PN16	PN25	PN10	PN16	PN25
100	80	185	195	7.2	7	18.5	18.5	18.5	21.9	21.9	21.9
	150	190	220	7.8	7	27.5	27.5	27.5	30.1	30.1	30.1
200	80	190	250	8.4	7	39.5	39.5	39.5	41	41	41
	100	215	250	8.4	7.2	40.5	40.5	41	42	42	42.5
250	80	220	275	9	7	49.5	49.5	49.5	49.5	49.5	49.5
	100	220	275	9	7.2	51	51	51.5	51	51	51.5
300	80	220	305	9.6	7	62	62	62	69.5	69.5	69.5
	100	220	305	9.6	7.2	64.5	64.5	65	72	72	72.5
	150	335	305	9.6	7.8	68	68	69	75.5	75.5	76.5
350	80	225	325	10.2	7	72	72	72	79	79	79
	100	225	325	10.2	7.2	74.5	74.5	75	81.5	81.5	82
	150	340	325	10.2	7.8	97.5	97.5	98.5	104.5	104.5	105.5
400	80	225	350	10.8	7	86	86	86	90.5	90.5	90.5
	100	225	350	10.8	7.2	87.5	87.5	88	92	92	92.5
	150	340	350	10.8	7.8	97.5	97.5	98.5	102	102	103
	200	340	350	10.8	8.4	102.5	103	107	107	107.5	111.5

(Unit:mm)

DN		L	H	e1	e2	Mass (kg)					
Body	Branch					T Type			K Type		
						PN10	PN16	PN25	PN10	PN16	PN25
450	80	230	375	11.4	7	107	107	107	105	105	105
	100	230	375	11.4	7.2	115	115	116	113	113	114
	150	345	375	11.4	7.8	121	121	122	119	119	120
	200	345	375	11.4	8.4	127	127	129	125	125	127
500	80	230	400	12	7	132	132	132	132	132	132
	100	230	400	12	7.2	134	134	135	134	134	135
	150	350	400	12	7.8	137.5	137.5	139.5	137.5	137.5	139.5
	200	350	400	12	8.4	143	143	145	143	143	145
600	80	355	435	13.2	7	170	170	170	170	170	170
	100	355	435	13.2	7.2	173	173	174	173	173	174
	150	355	450	13.2	7.8	180	180	181	180	180	181
	200	355	450	13.2	8.4	187	187	189	187	187	189
700	150	360	500	14.4	7.8	296	296	297	296	296	297
	200	360	500	14.4	8.4	300	300	302	300	300	302
800	150	360	540	15.6	7.8	360	360	361	360	360	361
	200	360	540	15.6	8.4	364	364	366	364	364	366
900	150	370	580	16.8	7.8	467	467	468	467	467	468
	200	370	580	16.8	8.4	471	471	473	471	471	473
1000	150	370	630	18	7.8	565	565	566	565	565	566
	200	370	630	18	8.4	569	569	571	569	569	571
1200	150	370	700	20.4	7.8	835	835	836	835	835	836
	200	370	700	20.4	8.4	840	840	842	840	840	842
1400	200	460	850	22.8	8.4	-	-	-	939	939	940
1500	200	465	900	24	8.4	-	-	-	1062	1062	1064
1600	400	700	950	25.2	10.8	-	-	-	1472	1476	1487
1800	400	715	1050	27.6	10.8	-	-	-	1872	1876	1887
2000	400	725	1150	30	10.8	-	-	-	2320	2325	2336
2100	400	730	1200	31.2	10.8	-	-	-	2539	2544	2555
2200	400	735	1250	32.4	10.8	-	-	-	2802	2807	2818
2400	400	750	1350	34.8	10.8	-	-	-	3347	3351	3362
2600	400	760	1450	37.2	10.8	-	-	-	4136	4140	4151

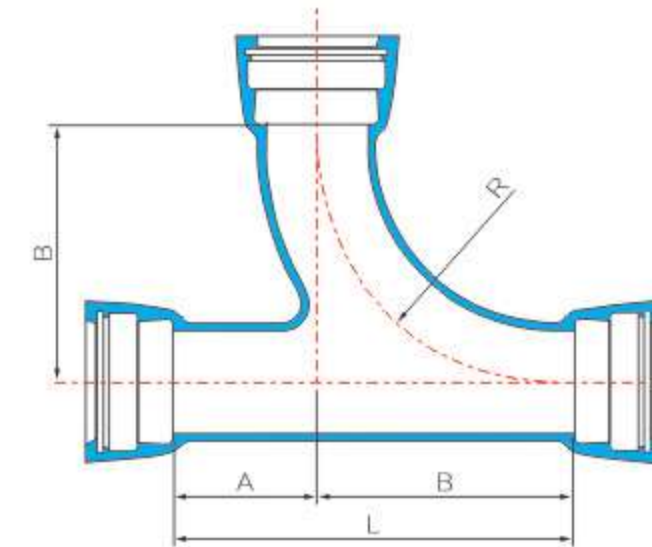
90° Double Socket duckfoot bend for DI Pipe



(Unit:mm)

DN	e	L	Mass
mm	mm	mm	kg
80	7.0	100	11.3
100	7.2	120	14.8
150	7.8	170	28.5
200	8.4	220	44.5
250	9.0	270	68.5
300	9.6	320	100.0
350	10.2	370	133.0
400	10.8	420	180.0
450	11.4	470	230.0
500	12.0	520	294.0
600	13.2	620	442.0
700	14.4	720	618.0
800	15.6	820	832.0
900	16.8	920	1113.0
1000	18.0	1020	1435.0
1100	19.2	1120	1781.0
1200	20.4	1220	2153.0

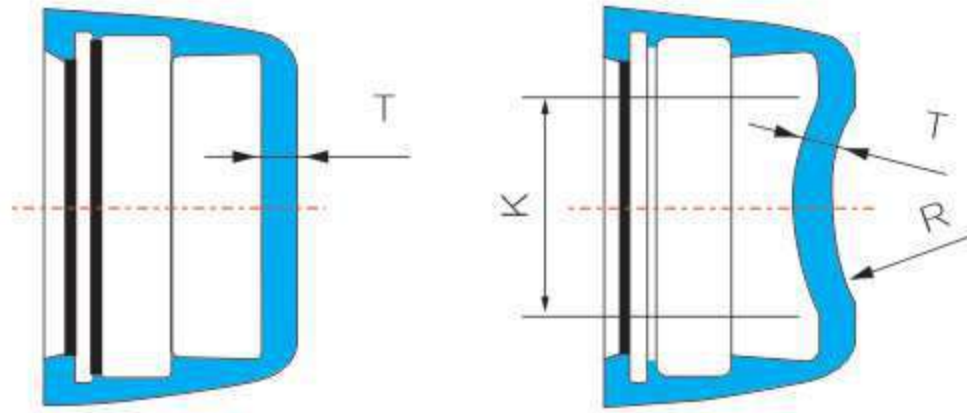
All Socket Radial Tee for DI Pipe



(Unit:mm)

DN		A	B	L	H	Mass(kg)
Body	Branch					
80	80	165	380	545	380	21
100	100	180	400	580	400	28
150	150	220	450	570	450	47
200	200	260	500	760	500	72.5
250	250	350	550	900	550	107
300	300	400	600	1000	600	150
350	350	450	650	1100	650	206

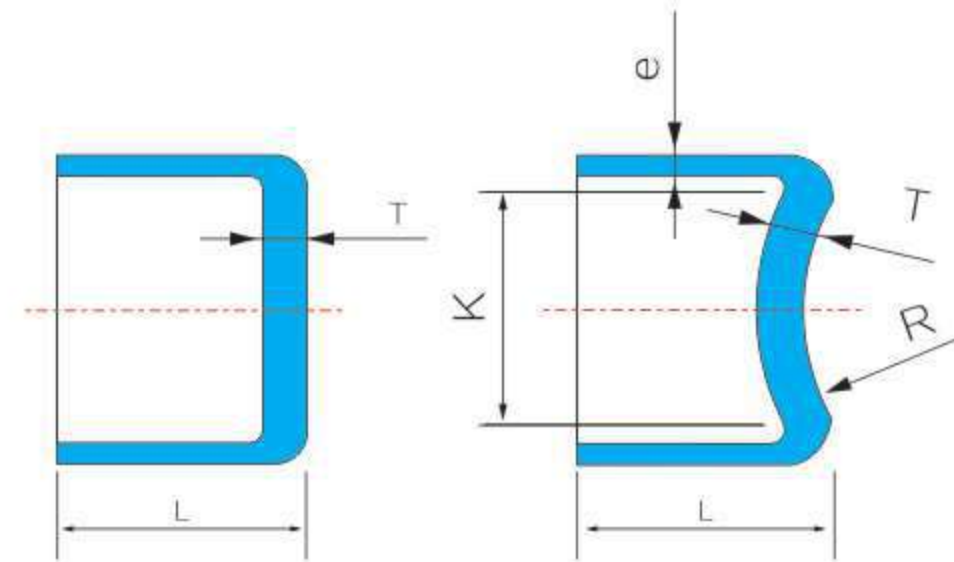
Cap for DI Pipe



(Unit:mm)

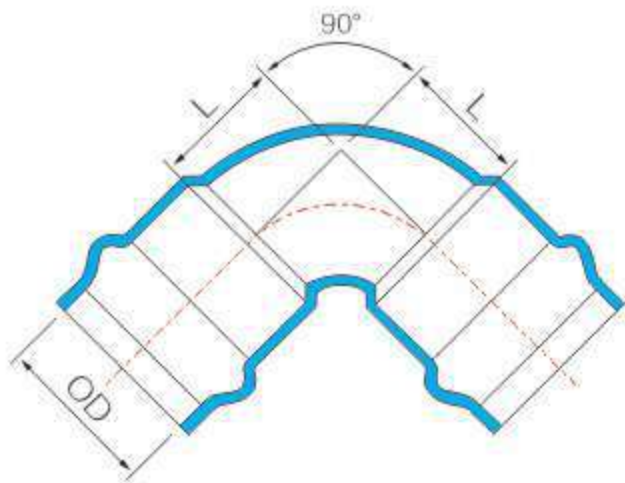
DN	T	K/R	Mass(kg)	
			T	K
80	18	-	7.3	5
100	18	-	8.5	6.5
150	18	-	14.1	12
200	18	-	19.8	17.5
250	19.5	-	27.4	24.5
300	23	-	42.8	38
350	24	315	61.8	50
400	25	370	76.3	62
450	26	420	93.7	76
500	27	460	107	91
600	29.5	565	132	128
700	31	665	170	175
800	33	760	225	228
900	35	860	300	296
1000	37	960	370	380
1100	39	1060	470	476
1200	41	1160	813	568
1400	43	1260	1018	1027

Plugs for DI Pipe



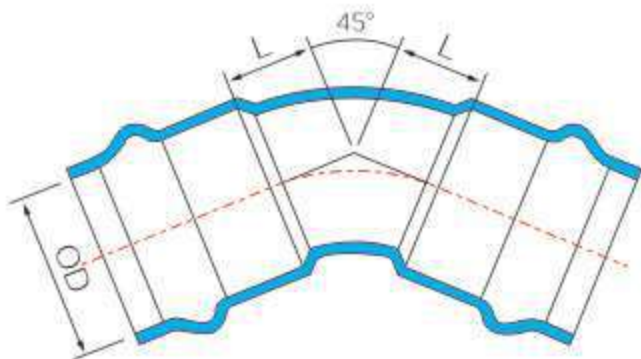
(Unit:mm)

DN	DE	T	e	K/R	L	Weight/kg	
						T	K
80	98	18	7.0	-	200	4	2.6
100	118	18	7.2	-	200	4.5	2.8
150	170	18	7.8	-	225	9.5	4.7
200	222	18	8.4	-	250	14.8	8
250	274	19.5	9.0	-	250	21.5	10.2
300	326	23	9.6	-	275	33.5	13.4
350	378	24	10.2	315	275	45.5	21
400	429	25	10.8	370	275	56	26.5
450	480	26	11.4	420	275	68.5	32.1
500	532	27	12.0	460	275	81	43.2
600	635	29.5	13.2	565	300	112	55.3
700	738	31	14.4	665	300	193	166
800	842	33	15.6	760	300	259	250
900	945	35	16.8	860	350	337	333
1000	1048	37	18.0	960	350	437	434
1100	1152	39	19.2	1060	350	-	-
1200	1255	41	20.4	1160	350	783	671
1400	1462	43	22.4	1260	350	1078	1110

Part2. Ductile Iron Fittings for UPVC/PE Pipe
● Double Socket 90° Bend for UPVC Pipe


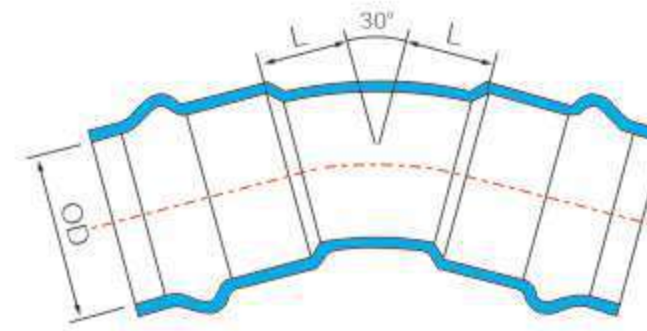
(Unit:mm)

OD	L	Mass(kg)
50	60	3.0
63	65	3.8
75	70	5.0
90	75	6.5
110	85	8.6
125	110	9.5
140	110	12.5
160	130	18.0
180	160	19.2
200	160	22.0
225	160	28.0
250	185	38.0
315	215	60.0
355	290	86.0
400	300	101.0
450	300	138.0
500	315	147.0
630	515	270.0

● Double Socket 45° Bend for UPVC Pipe


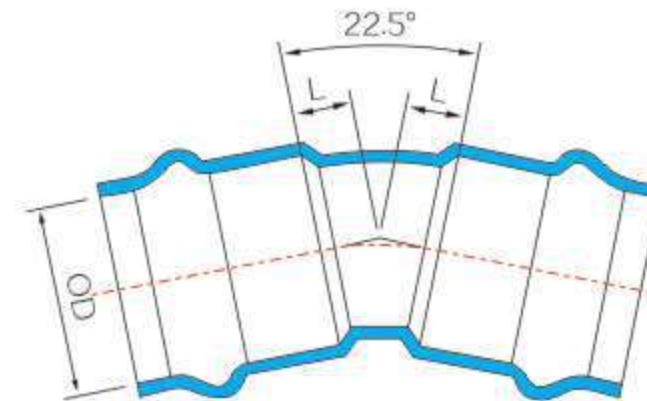
(Unit:mm)

OD	L	Mass(kg)
50	40	2.5
63	40	3.5
75	40	4.3
90	50	5.0
110	60	6.6
125	65	9.0
140	65	10.0
160	70	11.3
180	70	15.5
200	70	17.3
225	80	22.0
250	110	32.4
315	135	52.0
355	170	65.0
400	175	87.0
450	200	103.0
500	210	139.0
630	235	195.0

● Double Socket 30° Bend for UPVC Pipe


(Unit:mm)

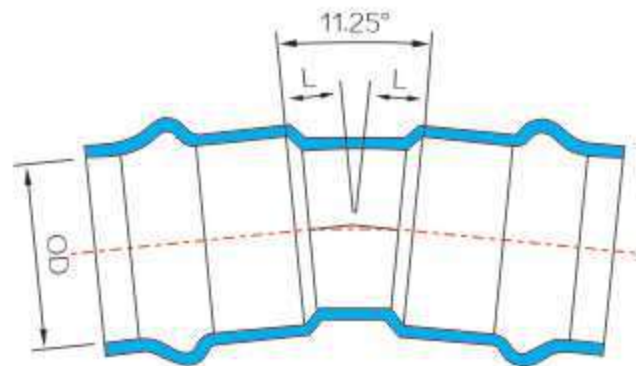
OD	L	Mass(kg)
50	40	2.3
63	40	3.0
75	40	3.8
90	50	5.0
110	60	7.6
125	65	8.2
140	65	9.5
160	70	10.8
180	70	14.5
200	70	16.5
225	80	20.0
250	110	29.8
315	135	48.0
355	170	59.0
400	175	63.7
450	195	81.0
500	210	126.0
630	235	172.0

● Double Socket 22.5° Bend for UPVC Pipe


(Unit:mm)

OD	L	Mass(kg)
50	20	2.2
63	20	2.7
75	25	4.0
90	25	5.0
110	30	6.5
125	30	8.0
140	30	8.6
160	35	12.0
180	40	13.8
200	40	15.0
225	45	18.5
250	50	27.5
315	85	44.3
355	95	54.0
400	110	74.0
450	120	75.6
500	130	115.0
630	150	152.0

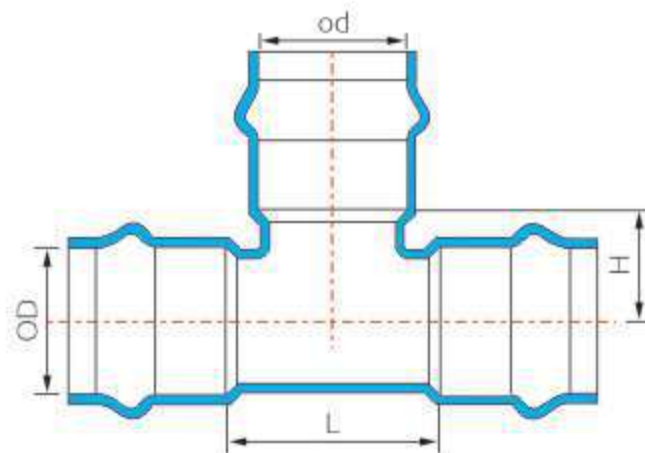
● Double Socket 11.25° Bend for UPVC Pipe



(Unit:mm)

OD	L	Mass(kg)
50	20	2.2
63	20	2.7
75	25	3.8
90	25	4.9
110	30	6.0
125	30	7.6
140	30	8.6
160	30	12.0
180	30	13.5
200	30	14.0
225	40	19.0
250	40	24.8
315	55	41.0
355	60	50.0
400	65	68.0
450	70	72.0
500	75	101.0
630	90	129.0

● All Socket Tee for UPVC Pipe



(Unit:mm)

OD	od	L	H	Mass(kg)
50	50	60	30	3.5
63	50	65	30	4.3
	63	70	30	4.5
75	50	65	45	5.4
	63	70	45	6.0
	75	85	45	6.5
90	50	75	50	6.5
	63	80	50	6.8
	75	90	50	7.6
	90	105	50	10.3
110	50	65	60	8.0
	63	75	60	8.6
	75	90	60	10.5
	90	105	60	10.8
125	110	125	60	13.0
	50	65	70	9.7
	63	75	70	10.0
	75	90	70	11.8

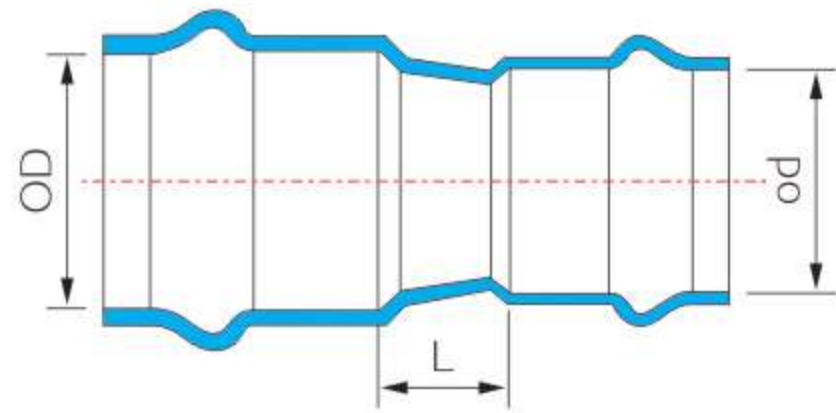
(Unit:mm)

OD	od	L	H	Mass(kg)
125	90	105	70	13.0
	125	150	70	15.1
140	50	65	75	10.5
	63	75	75	12.0
	75	90	75	12.5
	90	105	75	14.0
	125	150	75	16.0
160	40	55	85	11.9
	50	65	85	12.5
	63	75	85	13.0
	75	90	85	14.8
	90	105	85	16.5
	110	125	85	19.0
	125	125	85	19.5
	160	175	85	21.1
200	50	70	105	16.2
	75	120	105	19.4
	110	160	105	22.1
	125	160	105	22.7
	160	210	105	24.8
	200	240	105	27.0
225	50	70	120	20.5
	63	110	120	21.6
	75	120	120	22.1
	90	140	120	23.8
	110	160	120	25.9
	125	170	120	27.0
	160	210	120	28.6
	200	240	120	32.4
250	225	260	120	34.6
	50	70	130	30.2
	63	110	130	30.5
	75	130	130	30.8
	90	155	130	33.0
	110	175	130	33.5
	125	180	130	35.6
	140	200	130	36.0
	160	225	130	39.0
	200	250	130	41.6
280	225	270	130	43.7
	250	300	130	55.5
	63	80	145	37.0
	90	155	145	38.0
	110	175	145	39.0
280	160	225	145	43.2
	180	230	145	45.4

(Unit:mm)

OD	od	L	H	Mass(kg)	
280	225	250	145	53.0	
	280	325	145	62.0	
315	63	80	165	46.5	
	75	100	165	48.0	
	90	120	165	49.0	
	110	175	165	50.0	
	125	180	165	51.2	
	160	225	165	53.0	
	180	225	165	55.0	
	200	250	165	58.5	
	225	250	165	61.6	
	250	300	165	66.0	
355	280	325	165	70.0	
	315	375	165	81.0	
	110	140	190	58.3	
	200	220	190	69.0	
	225	250	190	73.0	
	250	270	190	74.5	
	280	300	190	84.2	
	315	340	190	91.0	
	355	380	190	98.0	
	400	90	120	215	65.0
110		140	215	70.2	
125		155	215	74.5	
160		180	215	77.0	
180		200	215	78.0	
200		220	215	90.0	
250		270	215	93.0	
315		340	215	112.0	
400		430	215	123.0	
500		110	140	260	110.0
	125	155	260	115.0	
	160	180	260	119.0	
	200	220	260	128.0	
	250	270	260	143.0	
	315	340	260	150.0	
	400	430	260	167.0	
	500	530	270	199.0	
	630	110	140	335	147
		160	190	335	170
200		230	335	178	
250		280	335	185	
315		345	335	213	
400		430	335	258	
500		530	335	279	
630	660	335	294		

● Double Socket Taper for UPVC Pipe



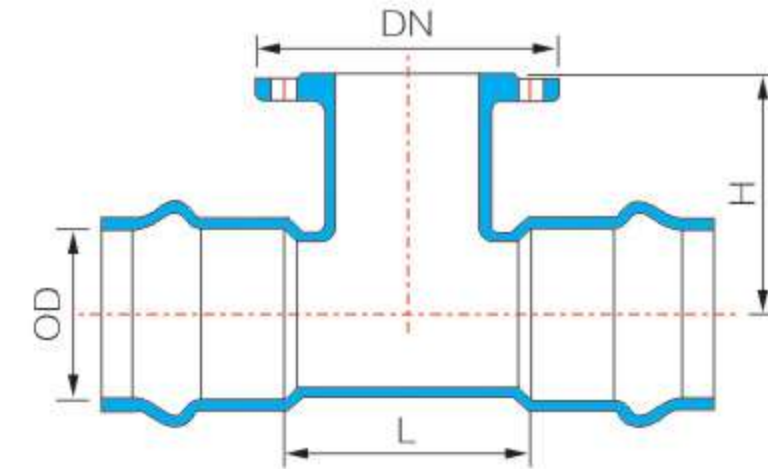
(Unit:mm)

OD	od	L	Mass(kg)
63	50	70	3.2
75	50	80	3.3
	63	80	3.8
90	50	80	4.3
	63	80	4.5
110	75	80	4.9
	50	100	5
110	63	160	5.7
	75	120	5.8
	90	85	6.5
125	63	190	7.6
	75	190	8.1
	90	135	8.6
140	110	100	9
	63	200	8
	75	190	9
140	90	135	9.2
	110	100	9.4
	125	100	9.8
	140	100	14
160	50	160	8.8
	63	210	9.3
	75	200	9.7
	110	150	10.8
	125	100	11.5
200	140	100	14
	63	250	14
	75	250	14.3
	90	250	15.1
	110	250	15.5
200	125	250	16.2
	140	200	16

(Unit:mm)

OD	od	L	Mass(kg)
200	160	145	16.3
225	63	200	14
	75	200	15.1
	90	250	15.2
	110	250	15.5
	125	250	16.2
250	140	200	16.5
	160	145	17.3
	200	145	19.4
	63	300	18.4
	90	300	21.1
250	110	300	22
	125	300	24
	140	250	23
	160	250	27.5
	200	150	28.1
280	160	250	28.6
	225	150	29
	63	220	30
315	90	110	26
	110	125	29.5
	160	150	30.5
	200	250	40
	250	150	41
400	63	260	39
	110	250	41
	250	360	64
500	315	260	66
	315	460	74.5
	400	260	86

● Double Socket Tee with Flange Branch for UPVC Pipe



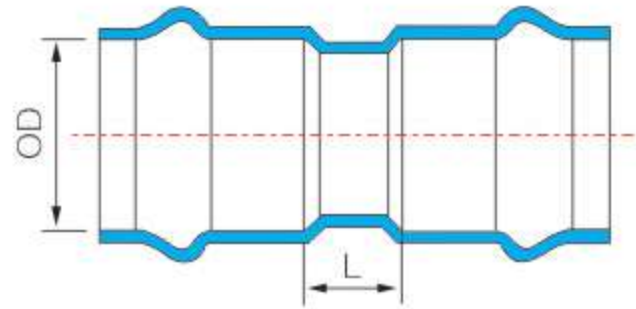
(Unit:mm)

OD	DN	L	H	Mass(kg)
63	50	70	140	6.5
90	80	105	160	10.3
110	50	75	145	10.3
	80	105	170	13
125	100	125	170	14.5
	50	80	160	10
	80	105	170	11.5
160	100	125	180	13
	50	75	170	14.6
	100	125	205	17.8
200	150	175	220	24.8
	50	110	195	17.3
	80	140	225	18.5
	100	160	230	20.5
	125	185	240	22
225	150	210	245	25.4
	200	260	250	30
	80	140	225	26
	100	160	230	27.5
250	150	210	245	34
	200	260	260	39
	80	155	250	35.5
100	175	255	36.3	

(Unit:mm)

OD	DN	L	H	Mass(kg)
250	125	200	260	39
	150	225	265	43.1
	200	275	275	45
400	80	175	340	69.2
	100	210	355	75.6
	150	275	360	79
500	200	325	365	93
	80	120	375	112.3
	100	140	380	119
	150	275	385	127.5
	200	250	390	134
630	250	300	400	157
	300	420	440	164.2
	400	450	440	184
	500	550	460	249
	80	140	450	141
630	100	160	450	146
	150	275	450	168
	200	280	450	174
	250	300	460	179
	300	420	460	200
	400	470	480	239
600	680	560	355	

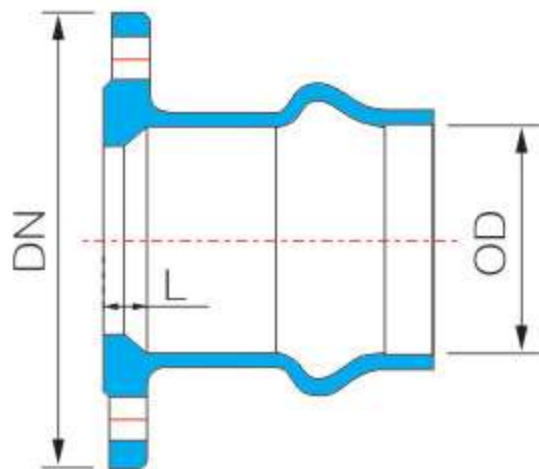
● Double Socket Collar for UPVC Pipe



(Unit:mm)

OD	L	Mass(kg)	
		PN10	PN16
50	60	2.5	
63	60	3.2	
75	60	4.2	
90	60	5.1	
110	60	7	
125	60	7.6	
140	60	8.6	
160	60	10.5	
180	60	14	
200	60	15.1	
225	60	19.5	
250	60	27	
280	60	31.2	
315	60	43.2	
355	60	49.5	
400	60	59.4	
450	60	70	
500	60	89.6	

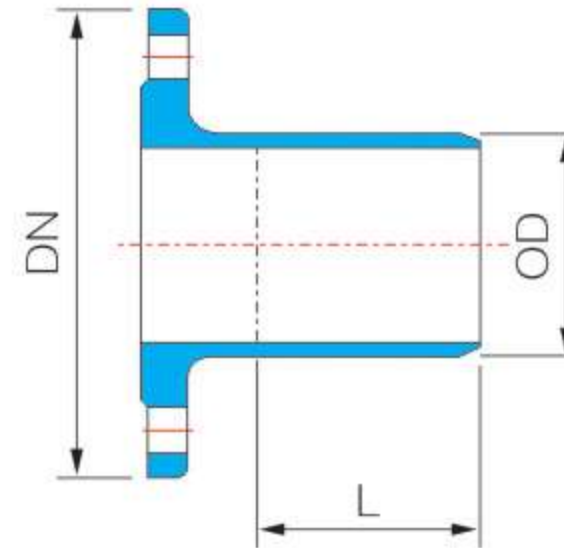
● Flange Socket for UPVC Pipe



(Unit:mm)

OD	DN	L	Mass(kg)	
			PN10	PN16
63	50	15	3.8	3.8
75	65	15	4.3	4.3
90	80	15	5.5	5.6
110	100	15	6.5	6.6
125	100	15	7	7.2
125	125	15	7	8.1
140	125	20	9.5	9.5
160	150	35	10.3	10.3
180	150	35	13.5	13.8
200	200	40	14	14.6
225	200	40	18	19
250	250	50	24	25
280	250	50	27.5	28
315	300	60	33	35
355	350	60	42.7	45.4
400	400	70	50	53.5
450	450	70	54	58
500	450	80	73	78
500	500	80	80.5	83.5
630	600	90	110	114

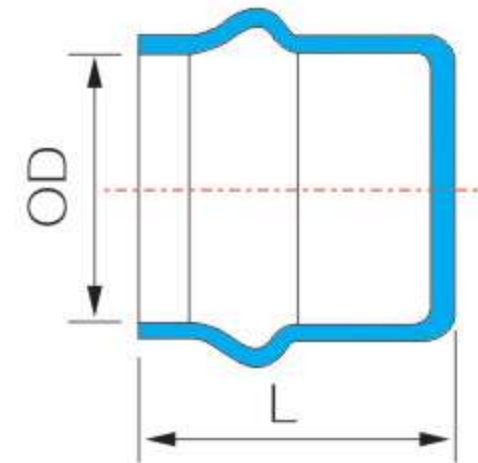
● Flange Spigot for UPVC Pipe



(Unit:mm)

OD	DN	L	Mass(kg)	
			PN10	PN16
63	50	93	2.2	2.2
75	65	98	4.3	4.3
90	80	102	5	5
110	100	110	5.4	5.4
125	100	114	8	8
125	125	114	8.5	8.5
140	125	119	9	9
160	150	127	11.5	11.5
180	150	133	14.5	14.5
200	200	139	16	15.8
225	200	147	16.7	16.5
250	250	156	23	23.3
280	250	166	25	25.3
315	300	176	35	35.5
355	350	187	41	44
400	400	198	52	58
450	450	200	53	59.5
500	500	224	76	92
630	600	260	108	136

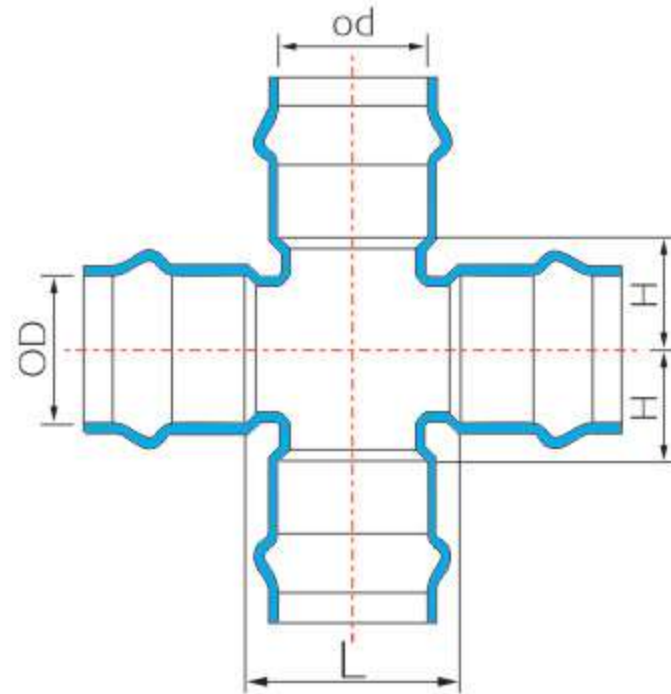
● UPVC Cap



(Unit:mm)

OD	L	Mass(kg)
50	95	1
63	100	1.5
75	100	1.7
90	120	2.5
110	130	3.5
125	135	4.5
140	145	5
160	155	6.5
180	170	8.2
200	175	10
225	185	12
250	195	15.5
280	205	20
315	220	24.6
355	240	30
400	260	40

● All Socket Cross Tee for UPVC Pipe

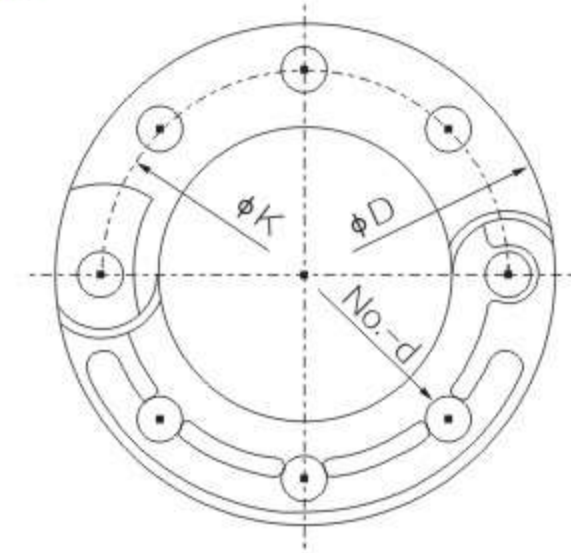


(Unit:mm)

OD	od	L	H	Mass(kg)
50	50	60	30	4.7
63	63	70	30	6.0
75	75	85	45	8.7
90	90	105	50	13.8
110	110	125	60	17.4
125	125	150	70	20.2
140	140	150	75	21.4
160	160	175	85	28.2
200	200	240	105	36.0
225	225	260	120	46.2
250	250	300	130	74.0
280	280	325	145	82.7
315	315	375	165	108.0
355	355	380	190	130.7
400	400	430	215	164.0
500	500	530	270	266.0
630	630	660	335	392

Part3. Loose Flange Fitting

● Loosing Flange



PN10 Flange

(Unit:mm)

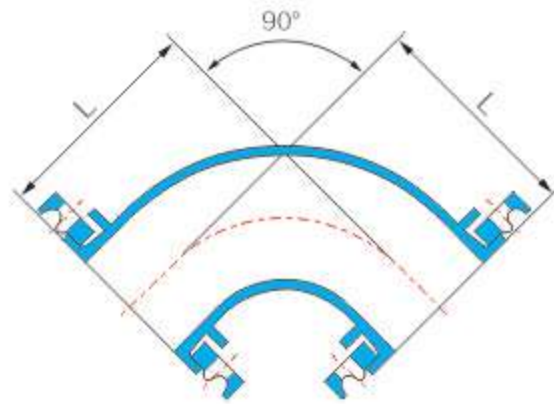
DN	D	K	Bolt			Mass (kg)
			d	Size	NO	
40	150	110	19	M16	4	1.4
50	165	125	19	M16	4	1.6
60	175	135	19	M16	4	2
65	185	145	19	M16	4	2.2
80	200	160	19	M16	8	2.4
100	220	180	19	M16	8	2.7
125	250	210	19	M16	8	3.6
150	285	240	23	M20	8	4.2
200	340	295	23	M20	8	6
250	400	350	23	M20	12	8.6
300	455	400	23	M20	12	11.3
350	505	460	23	M20	16	14.5
400	565	515	28	M24	16	20
450	615	565	28	M24	20	26
500	670	620	28	M24	20	28
600	780	725	31	M27	20	33
700	895	840	31	M27	24	35
800	1015	950	34	M30	24	41
900	1115	1050	34	M30	28	50
1000	1230	1160	37	M33	28	65

PN16 Flange

(Unit:mm)

DN	D	K	Bolt			Mass (kg)
			d	Size	NO	
40	150	110	19	M16	4	1.4
50	165	125	19	M16	4	1.6
60	175	135	19	M16	4	2
65	185	145	19	M16	4	2.2
80	200	160	19	M16	8	2.4
100	220	180	19	M16	8	2.7
125	250	210	19	M16	8	3.6
150	285	240	23	M20	8	4.2
200	340	295	23	M20	12	5.7
250	400	355	28	M24	12	8.5
300	455	410	28	M24	12	11
350	520	470	28	M24	16	14.9
400	580	525	31	M27	16	21
450	640	585	31	M27	20	29
500	715	650	34	M30	20	38
600	840	770	37	M33	20	58
700	910	840	37	M33	24	64
800	1025	950	40	M36	24	70
900	1125	1050	40	M36	28	79
1000	1255	1170	43	M39	28	92

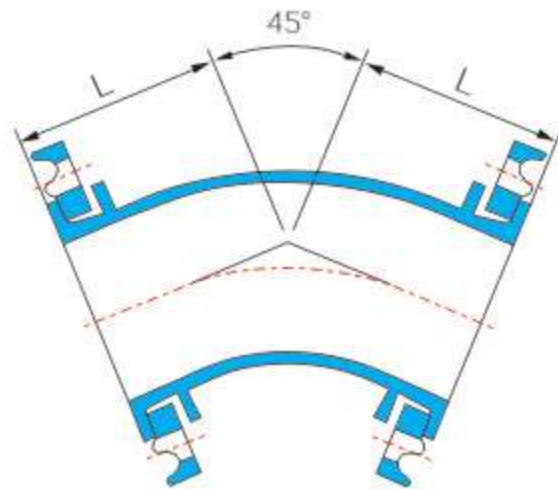
● Double Loose Flange 90° Bend



(Unit:mm)

DN	L	Mass(kg)	
		PN10	PN16
40	40	5	
50	50	6.5	
60	60	7.5	
65	65	7.5	
80	165	9.5	
100	180	12.5	
125	200	16.5	
150	220	20.5	
200	260	34.5	34
250	350	54	53
300	400	77	77
350	450	97	103
400	500	125	137
450	550	159	177
500	600	195	227
600	700	293	351
700	800	416	449
800	900	565	606
900	1000	740	789
1000	1100	974	1049

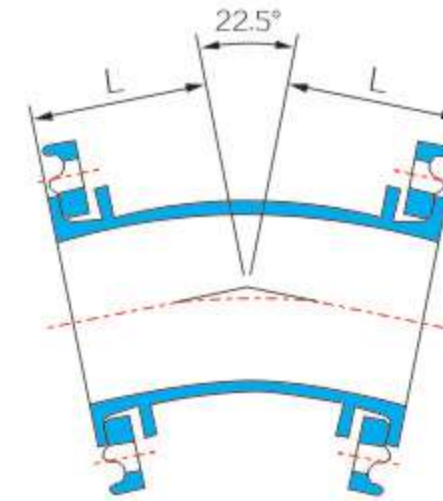
● Double Loose Flange 45° Bend



(Unit:mm)

DN	L	Mass(kg)	
		PN10	PN16
40	140	5	
50	150	5.5	
60	160	7.5	
65	165	7.5	
80	130	9	
100	140	11.5	
125	150	16	
150	160	18.5	
200	180	28	27
250	350	48	48
300	400	62	62
350	298	82	89
400	324	103	115
450	350	129	145
500	375	156	189
600	426	229	287
700	478	319	352
800	529	426	477
900	581	550	612
1000	632	708	811

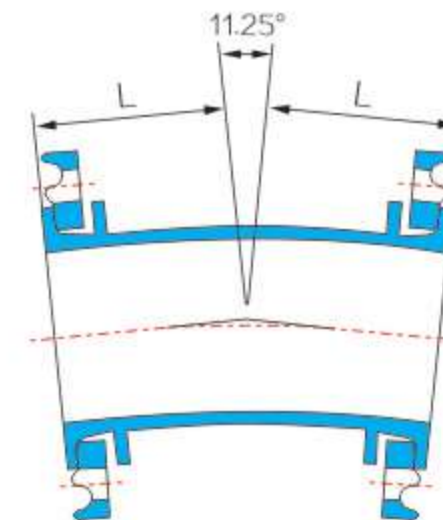
● Double Loose Flange 22.5° Bend



(Unit:mm)

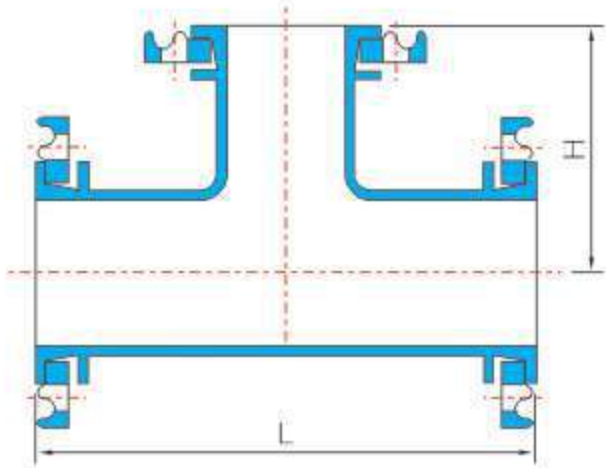
DN	L	Mass(kg)	
		PN10	PN16
40	94	4.5	
50	104	5.5	
60	114	7	
65	119	7.5	
80	105	8.9	
100	110	11	
125	105	14	
150	109	16	
200	131	25.5	26
250	190	56	56
300	210	79	79
350	210	84	90
400	239	106	116
450	349	131	149
500	375	160	191
600	426	236	290
700	478	335	360
800	529	448	489
900	581	575	627
1000	632	742	830

● Double Loose Flange 11.25° Bend



(Unit:mm)

DN	L	Mass(kg)	
		PN10	PN16
40	99	4.5	
50	109	5	
60	119	6	
65	124	6.5	
80	113	9	
100	115	10	
125	111	13	
150	113	16.5	
200	132	29	29
250	165	58	56
300	175	79	79
350	191	85	91
400	205	108	117
450	349	132	150
500	375	162	192
600	426	239	290
700	478	338	362
800	529	451	482
900	581	578	619
1000	632	746	819

All Loose Flange Tee


(Unit:mm)

DN	dn	L	H	Mass(kg)	
				PN10	PN16
40	40	280	140	8	
50	40	300	145	8.5	
	50		150	9	
60	40	300	130	10.5	
	50	320	150	11	
60	160		11.5		
65	40	330	150	11.5	
	50		155	12	
	60		160	13	
80	40	330	150	13.5	
	50		155	14	
	60		160	14.5	
	65		160	15	
100	40	360	165	16.5	
	50		165	17	
	60		170	17.5	
	65		175	17.5	
125	40	400	180	21.5	
	50		185	22	
	60		185	22	

(Unit:mm)

DN	dn	L	H	Mass(kg)	
				PN10	PN16
125	65	400	190	22.5	
	80		190	23	
	100		195	24.5	
	125		200	26	
150	40	440	195	26.5	
	50		200	27	
	60		200	27	
	65		205	27.5	
	80		205	28	
	100		210	29	
	125		215	31.5	
200	40	520	225	41	41
	50		230	41.5	40
	60		230	42	41.5
	65		235	42.5	42
	80		235	43.5	43
	100		240	44.5	44
	125		245	47	46.5
	150		250	47.5	47
250	40	700	245	57	58
	50		250	57.5	59
	60		255	58	59.5
	65		260	58.5	60
	80		265	59	60.5
	100		275	60	61.5
	125		280	63	64.5
	150		300	65	66.5
	200		325	71	72.5
	250		350	79	81
300	40	800	270	80	79
	50		275	81	80
	60		280	82	81.5
	65		285	82.5	82
	80		290	83	82.5
	100		300	86	86
	125		315	87.5	87
	150		325	89	88
	200		350	90	90.5
	250		375	97	96
350	40	850	390	120	125
	50		390	120.5	126
	60		390	121	126.5
	65		390	121	126.5
	80		390	121.5	127

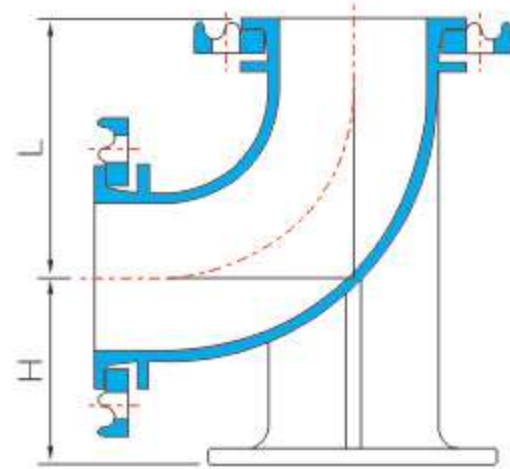
(Unit:mm)

DN	dn	L	H	Mass(kg)	
				PN10	PN16
350	100	850	390	122.5	128
	125		390	124	130
	150		390	126	133
	200		420	129	136
	250		420	134	140
	300		420	142	148
400	40	900	320	148.5	157
	50		325	149	158
	60		330	150	159
	65		330	150	159
	80		340	151	160
	100		350	152	161
	125		350	154	163
	150		350	156	165
	200		350	160	169
	250		375	165	174
500	40	1000	370	251	277
	50		375	252	278
	60		380	253	279
	65		380	253	279
	80		390	254	280
	100		400	256	282
	125		400	258	284
	150		400	261	287
	200		400	265	291
	250		475	270	296
	300		500	275	303
	350		500	280	309
	400		500	286	320
	450		500	295	329
500	500	310	381		
600	40	1100	420	353	400
	50		425	353	400
	60		430	355	402
	65		430	355	402
	80		440	357	404
	100		450	358	405
	125		450	360	407
	150		450	362	409
	200		450	365	412
	250		525	378	431
300	550	385	432		
350	550	390	441		

(Unit:mm)

DN	dn	L	H	Mass(kg)	
				PN10	PN16
600	400	1100	550	395	453
	450		550	400	479
	500		550	410	492
	600		550	430	509
700	80	600	600	257	281
	100	540	510	259	284
	150	595	515	261	286
	200	650	525	299	322
	250	705	530	324	347
	300	760	540	344	369
	400	870	555	380	409
	500	980	570	444	483
800	600	1200	585	528	578
	700	1200	600	554	591
	80	670	440	329	360
	100	580	570	335	365
	150	585	575	339	369
	200	690	585	376	407
	300	800	600	430	461
	400	910	615	470	506
900	500	1020	630	524	570
	600	1350	645	684	740
	700	1350	660	704	748
	800	1350	675	738	785
	80	720	490	417	457
	100	620	630	419	460
	150	675	635	421	462
	200	730	645	427	466
1000	300	840	660	543	583
	400	950	675	581	626
	500	1060	690	647	701
	600	1500	705	887	951
	700	1500	720	906	958
	800	1500	735	932	987
	900	1500	750	972	1032
	80	770	545	521	594
100	660	690	523	596	
150	715	695	525	598	
200	770	705	528	601	
300	880	720	673	745	
400	990	735	713	790	
500	1100	750	796	883	
600	1650	765	1075	1173	
700	1650	780	1152	1237	
800	1650	795	1172	1260	
900	1650	810	1211	1304	
1000	1650	825	1257	1366	

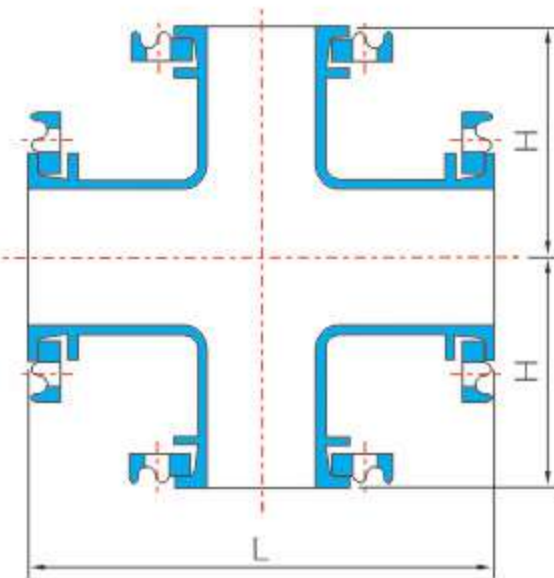
● Double Loose Flange 90° Duckfoot Bend



(Unit:mm)

DN	L	H	Mass(kg)	
			PN10	PN16
40	140	90	9	
50	150	95	10	
60	160	100	11	
65	165	100	11	
80	165	110	15	
100	180	125	19	
125	200	140	25	
150	220	160	32	
200	260	190	50	51
250	350	225	83	83
300	400	255	114	116
350	450	290	147	153
400	500	320	199	210
450	550	355	266	282
500	600	385	314	344
600	700	450	464	517
700	800	515	684	708
800	900	580	944	974
900	1000	645	1278	1308
1000	1100	710	1730	1799

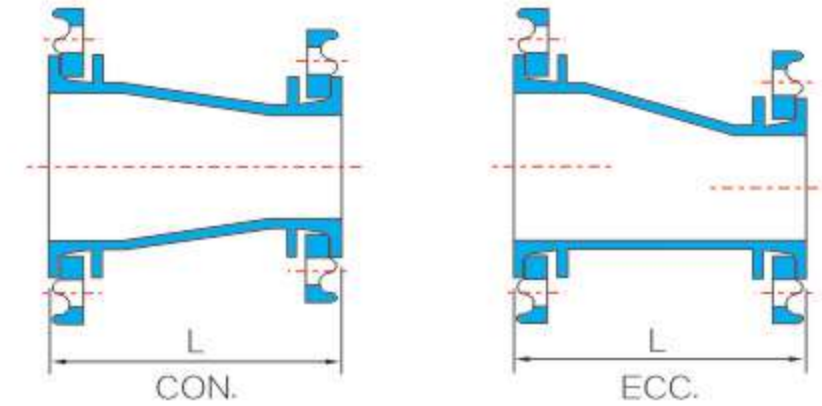
● All Loose Flange Cross Tee



(Unit:mm)

DN	dn	L	H	Mass(kg)	
				PN10	PN16
65	65	330	165	17.5	
80	80	330	165	20.5	
100	100	360	180	24.5	
125	125	400	200	34.5	
150	150	440	220	45	
200	200	520	260	69	70
250	250	700	350	110	110
300	300	800	400	157	154
350	350	850	425	201	205
400	400	900	450	228	253
450	450	950	475	346	382
500	500	1000	500	398	416
600	600	1100	550	454	563
700	700	1200	600	884	930
800	800	1350	675	1181	1240
900	900	1500	750	1544	1620
1000	1000	1650	825	2102	2240

● Double Loose Flange Taper



(Unit:mm)

DN	dn	L	Mass(kg)	
			PN10	PN16
50	40	150	5	
60	40	200	5.5	
	50		6	
65	40	200	6	
	50		6	
80	40	200	6.5	
	50		7.5	
	60		7.5	
	65		8	
100	40	200	7.5	
	50		7.7	
	60		8	
	65		8.5	
125	40	200	9.5	
	50		9.8	
	60		10.5	
	65		10.5	
150	80	200	11	
	100		12.5	
	40		11	
	50		11.5	
	60		12	
	65		12.5	
200	80	300	12.5	
	100		13.5	
	125		15	
	50		17	
	60		17.5	
	65		17	
250	80	300	18	
	100		17.8	
	125		19.5	
	150		19.5	
	60		21	
	65		21	
300	80	300	23	
	100		23.5	
	125		24	
	150		24.5	
	200		25.5	
	250		25.5	
300	60	300	26	
	80		27	
	100		28	
	125		28	
300	150	300	28	
	200		29	
	250		32	
	300		32.5	
300	80	300	29	
	100		29	
	150		30	

(Unit:mm)

DN	dn	L	Mass(kg)	
			PN10	PN16
300	125	300	32.5	
	150		32.5	
	200		35	
350	250	300	38.5	
	300		41	
	350		41.5	
400	150	300	46	
	200		49	
	250		50	
450	300	300	52.5	
	350		55	
	400		57	
	450		58.5	
	500		59.5	
	550		59.5	
500	200	300	52	
	250		56.5	
	300		55	
	350		59.5	
	400		59	
	450		64	
600	300	600	64	
	350		68.5	
	400		73	
	450		76	
	500		81	
	550		82	
700	400	700	82	
	450		90.5	
	500		89	
	550		96.5	
	600		107	
	650		98	
800	500	800	110.5	
	550		93	
	600		106.5	
	650		97	
	700		111	
	750		103	
900	600	900	116.5	
	650		115	
	700		131	
	750		140	
	800		158	
	850		102	
1000	700	1000	123	
	750		180	
	800		203	
	850		177	
	900		206	
	950		180	
1000	800	1000	208	
	850		210	
	900		206	
	950		210	
	1000		206	
	1050		207	
1000	600	1000	224	
	650		208	
	700		230	
	750		212	
	800		271	
	850		206	
1000	700	1000	250	
	750		278	
	800		303	
	850		271	
	900		301	
	950		275	
1000	800	1000	315	
	850		278	
	900		307	
	950		278	
	1000		307	
	1050		358	
1000	600	1000	392	
	650		337	
	700		381	
	750		373	
	800		373	
	850		326	
1000	700	1000	447	
	750		519	
	800		419	
	850		468	
	900		474	
	950		422	
1000	800	1000	464	
	850		398	
	900		464	

● Double Loose Flange Pipe



(Unit:mm)			(Unit:mm)			(Unit:mm)					
DN	L	Mass(kg)		DN	L	Mass(kg)		DN	L	Mass(kg)	
		PN10	PN16			PN10	PN16			PN10	PN16
40	100	4.5		65	200	7.9		100	500	15.5	
	150	5			250	8.5			600	17.5	
	200	5.5			300	9			700	19	
	250	6			350	9.6			800	21	
	300	6.3			400	10.2			900	23	
	350	6.7			450	10.8			1000	24.5	
	400	7.2			500	11.5			1200	28	
	450	7.5			100	7.5			100	10.5	
500	7.8		150	8		150	11.5				
50	100	5.5		80	200	8.7		125	200	13	
	150	5.9			250	9.5			250	14	
	200	6.5			300	10.5			300	15	
	250	6.8			350	11			350	16	
	300	7.3			400	11.5			400	17.5	
	350	7.8			450	12.5			450	18.5	
	400	8.2			500	13			500	19.5	
	450	8.7			600	14.5			600	22	
500	9.5		700	16		700	24				
60	100	6.2		100	800	17.5		150	800	26.5	
	150	6.7			900	18.5			900	28.5	
	200	7.2			1000	20			1000	31	
	250	7.8			100	8.5			1200	35.5	
	300	8.3			150	9.5			100	13	
	350	8.8			200	10.5			150	14.5	
	400	9.4			250	11.5			200	16	
	450	10			300	12			250	17.5	
500	10.5		350	13		300	19				
65	100	7		400	14		350	20			
	150	7.3		450	14.8		400	21.5			

(Unit:mm)				(Unit:mm)				(Unit:mm)				
DN	L	Mass(kg)		DN	L	Mass(kg)		DN	L	Mass(kg)		
		PN10	PN16			PN10	PN16			PN10	PN16	
150	450	23		300	1000	105	104	600	500	159	206	
	500	24.5			1200	121	121		600	177	224	
	600	27			250	51	56		700	195	243	
	700	30			300	55	61		800	213	261	
	800	33			350	60	65		900	232	279	
	900	35.5			400	64	70		1000	250	297	
	1000	38.5			450	69	74		1200	286	333	
	200	100	18.5		18	350	500		74	79	700	350
150		20.5	20	600	83		89	400	185	209		
200		22.5	22	700	93		98	450	197	220		
250		24.5	24	800	103		108	500	209	232		
300		26.5	26	900	113		118	600	232	255		
350		28.5	28	1000	123		128	700	255	278		
400		30.5	30	1200	143		148	800	278	301		
450		32.5	32	400	300		66	75	900	301		234
500		34.5	34		350		71	80	1000	324		347
600		38.5	38		400		77	86	1200	370		393
700		42	42		450		82	91	350	225		254
800		46	46		500		88	97	400	239		269
900	50	50	600		99	108	450	253	283			
1000	54	53.5	700		110	119	500	267	297			
250	100	23.5	25.5		450	800	121	130	800	600	296	326
	150	26	27.5			900	133	142		700	325	354
	200	29	30			1000	145	154		800	353	383
	250	31.5	32.5			1200	183	199		900	382	411
	300	34	35.5			500	350	83		98	1000	410
	350	36.5	38	400			89	105		1200	467	497
	400	39.5	40.5	450			95	111		350	267	305
	450	42	43	500			102	118		400	285	323
	500	44.5	46	600			115	131		450	303	341
	600	50	51	700			128	144		500	321	359
	700	55	56.5	800			141	157		600	356	394
	800	60.5	61.5	900			155	170		700	392	430
900	66	67	1000	168	184		800	428	466			
1000	71	72	1200	195	211		900	464	502			
300	200	40	39	600	350		97	124	1000	1000	500	538
	250	43	43		400		104	131		1200	572	610
	300	47	46		450	111	138	350		330	399	
	350	51	50		500	118	145	400		351	420	
	400	55	54		600	132	159	450		372	441	
	450	59	58		700	146	173	500		393	462	
	500	63	62		800	160	186	600		435	504	
	600	71	70		900	173	200	700		477	546	
	700	79	78		1000	187	214	800		520	589	
	800	87	87		1200	215	242	900		562	631	
	900	96	95		350	132	179	1000		605	674	
					400	141	188	1200		690	759	
			450	150	197							

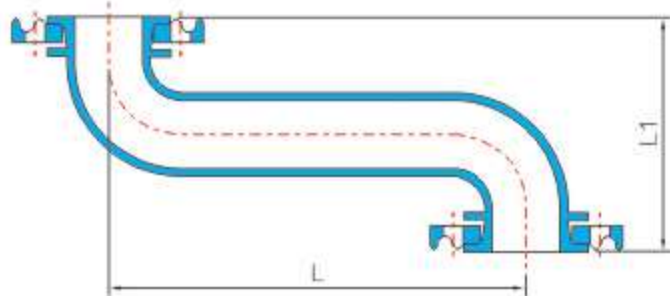
Loosing Flange Spigot



(Unit:mm)

DN	L	DE	Mass(kg)	
			PN10	PN16
40	335	56	4.5	
50	340	66	5	
60	345	77	5.6	
65	345	82	6	
80	350	98	8	
100	360	118	10.5	
125	370	144	12	
150	380	170	16.5	
200	400	222	26	26
250	420	274	36	36
300	440	326	47	46
350	460	378	56	59
400	480	429	69	75
450	500	480	84	95
500	520	532	101	117
600	560	632	143	171
700	600	738	193	209
800	600	842	239	259
900	600	945	288	312
1000	600	1048	347	391

Double Loose Flange Pipe Esse

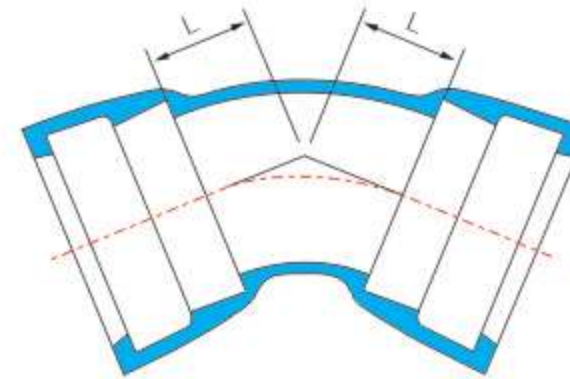


(Unit:mm)

DN	L	L1	Mass(kg)	
			PN10	PN16
80	500	300	16	
100	500	300	20	
150	500	320	32	

Part4. DI Fittings for AS/NZS 2280 Standard

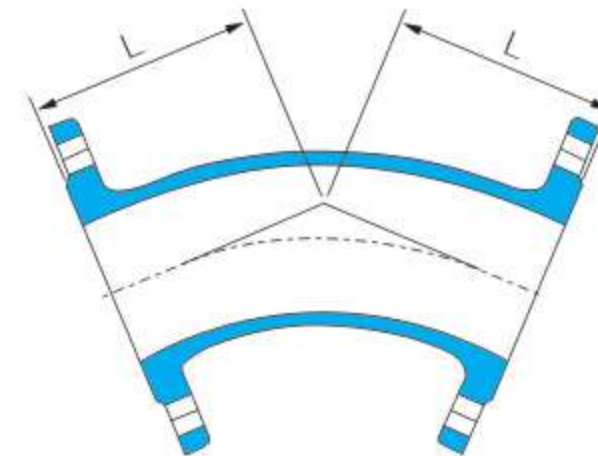
Double Socket Bend



(Unit:mm)

Diameter	Double Socket Bend			
	L			
	11¼deg	22½deg	45deg	90deg
100	30	45	80	165
150	35	55	95	205
200	35	55	100	220
225	45	65	115	250
250	45	70	125	275
300	50	80	145	325
375	65	100	185	405
450	70	115	215	480
500	75	125	235	535
600	85	145	280	635
750	105	180	345	795

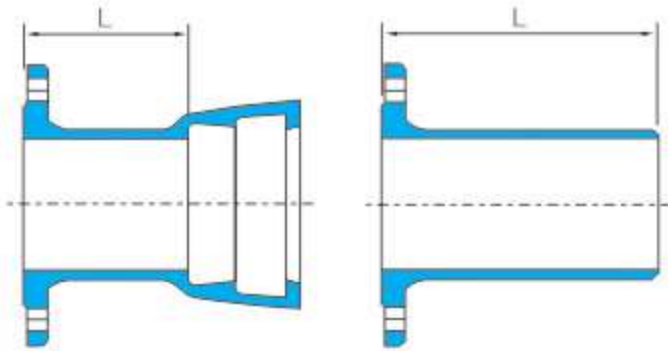
Double Flange Bend



(Unit:mm)

Diameter	Double Flange Bend			
	L			
	11¼deg	22½deg	45deg	90deg
100	152	152	152	241
150	190	190	190	279
200	203	203	203	305
225	229	229	229	330
250	254	254	254	356
300	305	305	305	406
375	381	381	381	495
450	457	457	457	572
500	508	508	508	622
525	533	533	533	648
600	610	610	610	737
750	730	730	730	905

Connectors



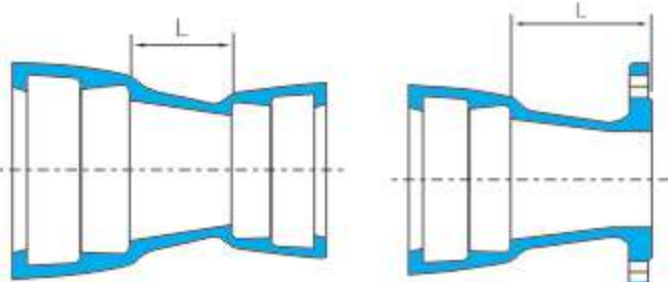
Flange Socket

Flange Spigot

(Unit:mm)

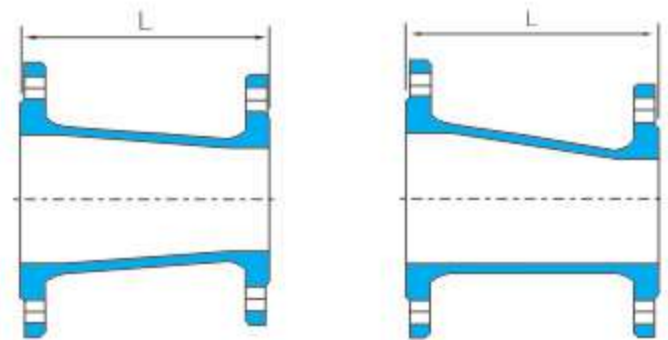
Connectors		
Diameter	L	
	Flange Socket	Flange Spigot
100	110	205
150	135	205
200	135	230
225	155	230
250	155	230
300	170	255
375	190	280
450	200	280
500	215	305
525	-	305
600	230	330
675	-	350
750	250	370

Tapers



Socket-Socket

Socket-Flange



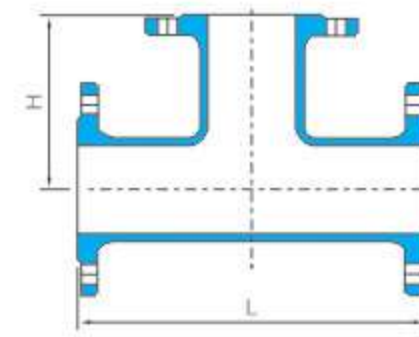
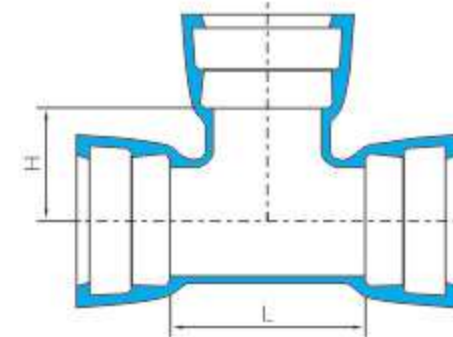
Flange-Flange Con.

Flange-Flange Ecc.

(Unit:mm)

Tapers					
Diameter	Body	Branch	L		
			Socket-Socket	Socket-Flange	Flange-Flange
100	80	105	125	165	165
150	80	230	250	298	298
150	100	170	190	235	235
200	100	295	315	368	368
200	150	170	200	248	248
225	100	365	385	432	432
225	150	235	-	311	311
225	200	110	155	190	190
250	100	425	445	495	495
250	150	300	330	375	375
250	200	175	215	254	254
250	225	115	160	190	190
300	100	555	575	629	629
300	150	425	460	508	508
300	200	300	345	387	387
300	225	240	290	324	324
300	250	180	225	260	260
375	200	495	540	584	584
375	225	435	485	521	521
375	250	375	420	457	457
375	300	245	305	337	337
450	250	565	610	660	660
450	300	435	495	540	540
450	375	250	310	356	356
500	250	690	740	787	787
500	300	565	620	667	667
500	375	380	440	483	483
500	450	190	255	305	305
525	250	-	-	857	857
525	300	-	-	737	737
525	375	-	-	552	552
525	450	-	-	375	375
525	500	-	-	248	248
600	300	820	875	934	934
600	375	635	690	749	749
600	450	440	510	572	572
600	500	315	400	444	444
600	525	-	340	387	387
675	375	-	-	950	950
675	450	-	-	770	770
675	500	-	-	660	660
675	525	-	-	593	593
675	600	-	-	415	415
750	375	1020	1080	1180	1180
750	450	830	895	1000	1000
750	500	700	785	885	885
750	525	-	725	825	825
750	600	445	540	645	645
750	675	-	330	395	395

All Socket/Flange Tee

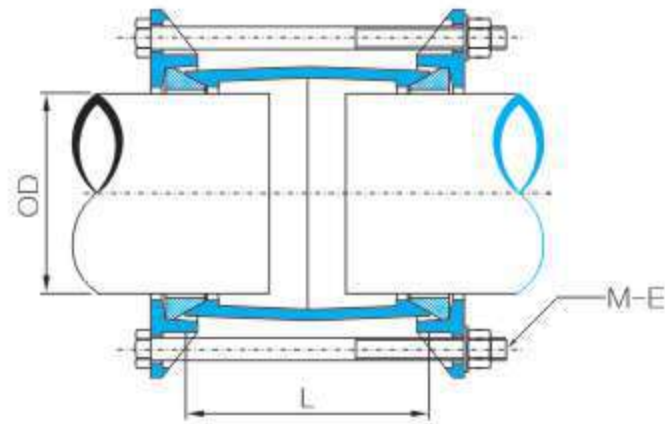


(Unit:mm)

Tee-socket & flange						
Diameter	Body	Branch	Socket-socket		Flange-Flange	
			L	H	L	H
100	100	230	115	356	178	
150	100	230	145	406	203	
150	150	290	145	406	203	
200	100	230	170	484	241	
200	150	290	170	484	241	
200	200	340	170	484	241	
225	100	240	185	508	254	
225	150	300	185	508	254	
225	200	350	185	508	254	
225	225	380	190	508	254	
250	100	240	200	534	267	
250	150	300	200	534	267	
250	200	350	200	534	267	
250	225	380	205	534	267	
250	250	410	205	534	267	
300	100	240	230	610	305	
300	150	300	230	610	305	
300	200	350	230	610	305	
300	225	380	235	610	305	
300	250	410	235	610	305	
300	300	490	245	610	305	
375	200	360	270	738	356	
375	225	390	275	738	356	
375	250	420	275	738	356	
375	300	500	285	738	356	
375	375	610	305	738	368	

(Unit:mm)

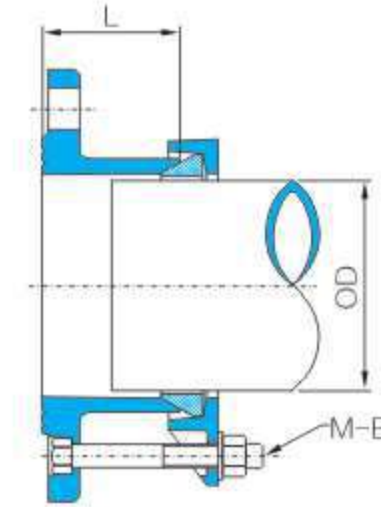
Tee-socket & flange						
Diameter	Body	Branch	Socket-socket		Flange-Flange	
			L	H	L	H
450	250	420	315	814	394	
450	300	500	325	814	394	
450	375	610	345	814	406	
450	450	690	345	814	406	
500	250	420	340	890	432	
500	300	500	355	890	432	
500	375	610	370	890	444	
500	450	690	370	890	444	
500	500	770	385	890	444	
525	250	-	-	914	444	
525	300	-	-	914	444	
525	375	-	-	914	457	
525	450	-	-	914	457	
525	500	-	-	914	457	
600	300	500	405	1016	483	
600	375	610	425	1016	495	
600	450	690	425	1016	495	
600	500	770	435	1016	495	
600	525	-	-	1016	495	
600	600	870	435	1016	508	
750	300	510	485	890	615	
750	375	620	505	1000	645	
750	450	700	505	1080	655	
750	500	780	515	1160	680	
750	525	-	-	1180	680	
750	600	880	515	1260	695	
750	750	1070	535	1450	725	

Part5. Joint for DI Fittings
● Coupling For Ductile Iron Pipe


MATERIAL SPECIFICATION		
Bolts&Nuts	Steel with Zinc plated	BS 729:1971,ISO 1461
Sleeve	Ductile Iron	BS 2789:1985,GRADE 420/12
Gland	Ductile Iron	BS 2789:1985,GRADE 420/12
Rubber Gasket	SBR,EPDM or other	BS 2494:1990,Type W
Coating	Fusion Bonded Epoxy or Wet Epoxy	Minimum 250um thick

(Unit:mm)

DN	OD	L	M-E
50	66	100	2-M12
65	82	100	2-M12
80	98	100(320)	4-M12
100	118	100(320)	4-M12
150	170	100(320)	4-M12
200	222	100(320)	4-M12
250	274	100(320)	6-M12
300	326	100(320)	6-M12
350	378	150	8-M16
400	429	150	8-M16
450	480	150	10-M16
500	532	150	10-M16
600	635	150	10-M16
700	738	150	12-M16
800	842	150	12-M16
900	945	152	14-M16
1000	1048	152	14-M16
1100	1152	152	16-M16
1200	1255	152	16-M16

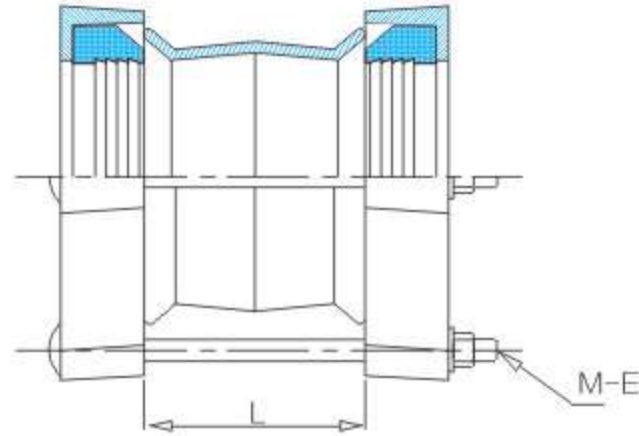
● Flange Adaptor For Ductile Iron Pipe


MATERIAL SPECIFICATION		
Bolts&Nuts	Steel with Zinc plated	BS 729:1971,ISO 1461
Flange	Ductile Iron	BS 2789:1985,GRADE 420/12
Gland	Ductile Iron	BS 2789:1985,GRADE 420/12
Rubber Gasket	SBR,EPDM or other	BS 2494:1990,Type W
Coating	Fusion Bonded Epoxy or Wet Epoxy	Minimum 250um thick

(Unit:mm)

DN	OD	L	M-E	FLANGE STANDARD
50	66	70	2-M12	PN10+PN16+BS10/E+ANSI/150
65	82	70	2-M12	PN10+PN16+BS10/E+ANSI/150
80	98	70	4-M12	PN10+PN16+BS10/E+ANSI/150
100	118	70	4-M12	PN10+PN16+BS10/E+ANSI/150
150	170	75	4-M12	PN10+PN16+BS10/E+ANSI/150
200	222	75	4-M12	PN10+PN16+BS10/E+ANSI/150
250	274	90	6-M12	PN10+PN16+BS10/E+ANSI/150
300	326	90	6-M12	PN10+PN16+BS10/E+ANSI/150
350	378	105	8-M16	PN10/16
400	429	105	8-M16	PN10/16
450	480	105	10-M16	PN10/16
500	532	105	10-M16	PN10/16
600	635	105	10-M16	PN10/16
700	738	105	12-M16	PN10/16
800	842	105	12-M16	PN10/16
900	945	115	14-M16	PN10/16
1000	1048	115	14-M16	PN10/16
1100	1152	115	16-M16	PN10/16
1200	1255	115	16-M16	PN10/16

● Universal Coupling For UPVC,DI,CI,AC,Steel Pipe

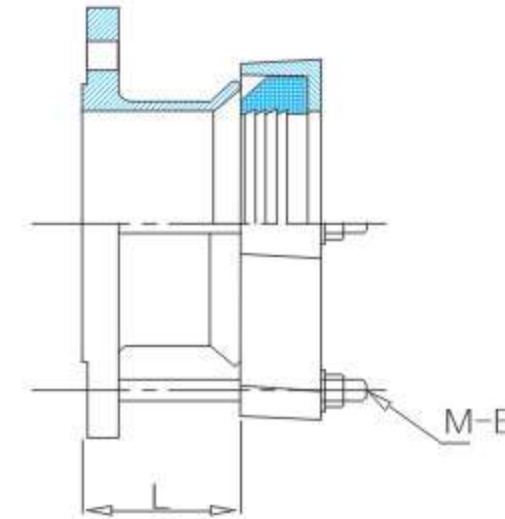


MATERIAL SPECIFICATION		
Bolts&Nuts	Steel with Zinc plated	BS 729:1971,ISO 1461
Sleeve	Ductile Iron	BS 2789:1985,GRADE 420/12
Gland	Ductile Iron	BS 2789:1985,GRADE 420/12
Rubber Gasket	SBR,EPDM or other	BS 2494:1990,Type W
Coating	Fusion Bonded Epoxy or Wet Epoxy	Minimum 250um thick

(Unit:mm)

DN	OD RANGE	L	M-E	TYPE OF PIPES
50	59-72	100/300	4-M12	Upvc,DI,CI,AC,Steel
65	72-85	100	4-M12	Upvc,DI,CI,AC,Steel
80	88-103	100/300	4-M12	Upvc,DI,CI,AC,Steel
100A	108-128	100/300	4-M12	Upvc,DI,CI,AC,Steel
100B	107-132	100	4-M12	Upvc,DI,CI,AC,Steel
125	132-158	100	4-M12	Upvc,DI,CI,AC,Steel
150A	158-182	100/300	4-M12	Upvc,DI,CI,AC,Steel
150B	176-192	100	4-M12	Upvc,DI,CI,AC,Steel
175	189-212	100	4-M12	Upvc,DI,CI,AC,Steel
200A	218-235	100/300	4-M12	Upvc,DI,CI,AC,Steel
200B	218-244	100	4-M12	Upvc,DI,CI,AC,Steel
225	235-255	100	4-M12	Upvc,DI,CI,AC,Steel
250A	244-276	100	6-M12	Upvc,DI,CI,AC,Steel
250B	271-289	100	6-M12	Upvc,DI,CI,AC,Steel
250C	269-295	100	6-M12	Upvc,DI,CI,AC,Steel
300A	315-332	100/300	6-M12	Upvc,DI,CI,AC,Steel
300B	322-350	100	6-M12	Upvc,DI,CI,AC,Steel
350	350-378	130	8-M12	Upvc,DI,CI,AC,Steel
400A	386-428	130	8-M16	Upvc,DI,CI,AC,Steel
400	425-442	130	8-M16	Upvc,DI,CI,AC,Steel
500	527-544	130	10-M16	Upvc,DI,CI,AC,Steel
600	630-647	130	10-M16	Upvc,DI,CI,AC,Steel

● Flange Adaptor For UPVC,DI,CI,AC,Steel Pipe

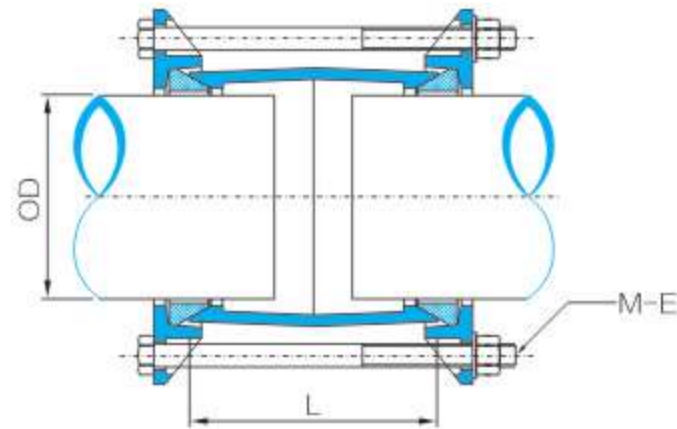


MATERIAL SPECIFICATION		
Bolts&Nuts	Steel with Zinc plated	BS 729:1971,ISO 1461
Flange	Ductile Iron	BS 2789:1985,GRADE 420/12
Gland	Ductile Iron	BS 2789:1985,GRADE 420/12
Rubber Gasket	SBR,EPDM or other	BS 2494:1990,Type W
Coating	Fusion Bonded Epoxy or Wet Epoxy	Minimum 250um thick

(Unit:mm)

DN	OD RANGE	L	M-E	FLANGE STANDARD	TYPE OF PIPES
50	59-72	75	4-M12	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
65	72-85	75	4-M12	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
80	88-103	75	4-M12	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
100A	108-128	75	4-M12	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
125	132-158	75	4-M12	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
150	158-182	75	4-M12	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
175	189-212	75	4-M12	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
200A	189-212	75	4-M12	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
200B	218-235	75	4-M12	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
250A	244-276	90	6-M12	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
250B	271-289	90	6-M12	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
300A	315-332	90	6-M12	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
300B	322-350	90	6-M12	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
350	350-378	100	8-M12	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
400A	386-428	100	8-M16	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
400	425-442	100	8-M16	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
500	527-544	100	10-M16	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel
600	630-647	100	10-M16	PN10+PN16+BS10/E+ANSI/150	Upvc,DI,CI,AC,Steel

● Coupling For PVC Pipe

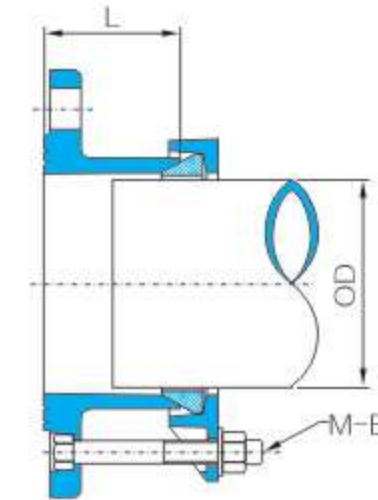


MATERIAL SPECIFICATION		
Bolts&Nuts	Steel with Zinc plated	BS 729:1970,ISO 1461
Sleeve	Ductile Iron	BS 2789:1985,GRADE 420/12
Gland	Ductile Iron	BS 2789:1985,GRADE 420/12
Rubber Gasket	SBR,EPDM or other	BS 2494:1990,Type W
Coating	Fusion Bonded Epoxy or Wpoxo Coat	Minimum 250um thick

(Unit:mm)

DN	OD	L	M	E
50	63	100	4	M12
65	75	100	4	M12
80	90	100	4	M12
100	110	100	4	M12
125	125	100	4	M12
125	140	100	4	M12
150	160	100	4	M12
150	180	100	4	M12
200	200	100	4	M12
200	225	100	4	M12
250	250	100	6	M12
250	280	100	6	M12
300	315	100	6	M12
350	355	150	8	M12
400	400	150	8	M16
500	500	150	10	M16
600	630	150	10	M16

● Flange Adaptor For PVC Pipe

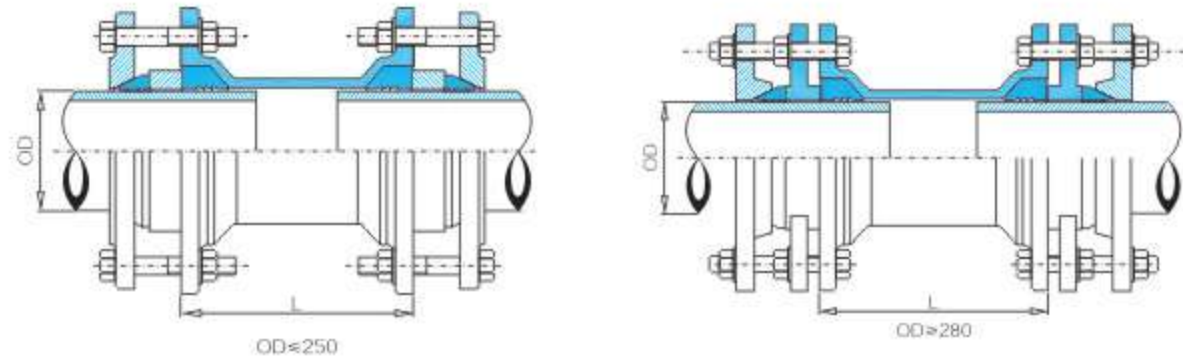


MATERIAL SPECIFICATION		
Bolts&Nuts	Steel with Zinc plated	BS 729:1970,ISO 1461
Flange	Ductile Iron	BS 2789:1985,GRADE 420/12
Gland	Ductile Iron	BS 2789:1985,GRADE 420/12
Rubber Gasket	SBR,EPDM or other	BS 2494:1990,Type W
Coating	Fusion Bonded Epoxy or Wpoxo Coat	Minimum 250um thick

(Unit:mm)

DN	OD	M	E	L	FLANGE STANDARD
50	63	4	M12	65	PN10+PN16+BS10/E
65	75	4	M12	65	PN10+PN16+BS11/E
80	90	4	M12	65	PN10+PN16+BS12/E
100	110	4	M12	70	PN10+PN16+BS13/E
125	125	4	M12	70	PN10+PN16+BS14/E
125	140	4	M12	70	PN10+PN16+BS15/E
150	160	4	M12	70	PN10+PN16+BS16/E
150	180	4	M12	75	PN10+PN16+BS17/E
200	200	4	M12	75	PN10+PN16+BS18/E
200	225	4	M12	75	PN10+PN16+BS19/E
250	250	6	M12	75	PN10+PN16+BS20/E
250	280	6	M12	90	PN10+PN16+BS21/E
300	315	6	M12	90	PN10+PN16+BS22/E
350	355	8	M12	105	PN10+PN16+BS23/E
400	400	8	M16	105	PN10+PN16+BS24/E
500	500	10	M16	105	PN10+PN16+BS25/E
600	630	10	M16	105	PN10+PN16+BS26/E

DI PE Restraint Coupling

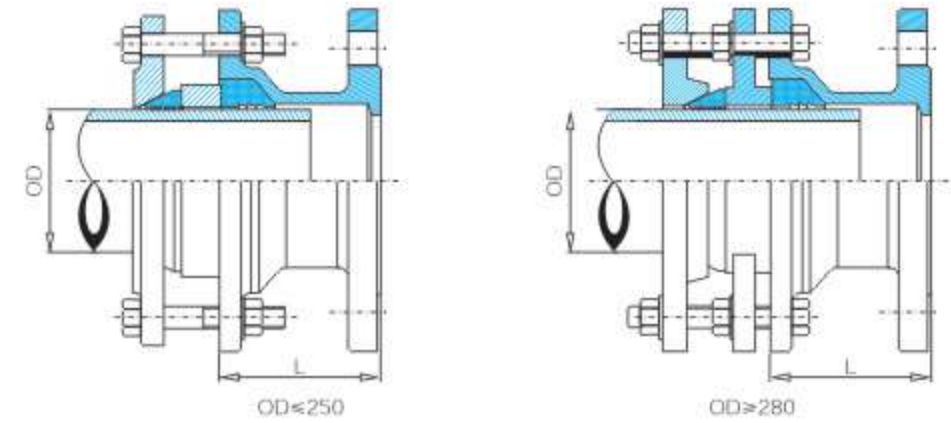


MATERIAL SPECIFICATION		
Bolts&Nuts	Steel with Zinc plated	BS 729:1970,ISO 1461
Sleeve	Ductile Iron	BS 2789:1985,GRADE 420/12
Gland	Ductile Iron	BS 2789:1985,GRADE 420/12
DI Ring	Ductile Iron	BS 2789:1958,GRADE 420/12
Copper Ring	Copper alloy	BS 2874,GuZn 39 Pb2
Rubber Gasket	SBR,EPDM or other	BS 2494:1990,Type W
Coating	Fusion Bonded Epoxy or Wpoxo Coat	Minimum 250um thick

(Unit:mm)

DN	OD	L	TYPE OF PIPES
50	63	130	PVC;PE
65	75	130	PVC;PE
80	90	140	PVC;PE
100	110	146	PVC;PE
125	125	150	PVC;PE
125	140	160	PVC;PE
150	160	174	PVC;PE
150	180	180	PVC;PE
200	200	200	PVC;PE
200	225	200	PVC;PE
250	250	200	PVC;PE
250	280	200	PVC;PE
300	315	210	PVC;PE
350	355	210	PVC;PE
400	400	230	PVC;PE
500	500	230	PVC;PE
600	630	230	PVC;PE

DI PE Restraint Flange Adaptor

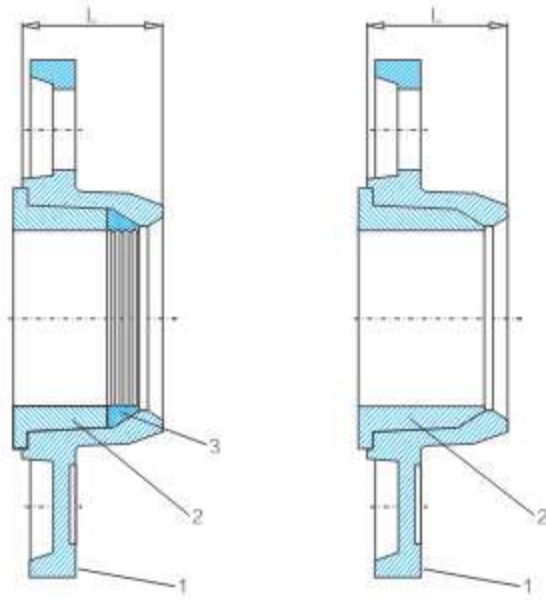


MATERIAL SPECIFICATION		
Bolts&Nuts	Steel with Zinc plated	BS 729:1970,ISO 1461
Flange	Ductile Iron	BS 2789:1985,GRADE 420/12
Gland	Ductile Iron	BS 2789:1985,GRADE 420/12
DI Ring	Ductile Iron	BS 2789:1958,GRADE 420/12
Copper Ring	Copper alloy	BS 2874,GuZn 39 Pb2
Rubber Gasket	SBR,EPDM or other	BS 2494:1990,Type W
Coating	Fusion Bonded Epoxy or Wpoxo Coat	Minimum 250um thick

(Unit:mm)

DN	OD	L	TYPE OF PIPES
50	63	65	PVC;PE
65	75	65	PVC;PE
80	90	70	PVC;PE
100	110	73	PVC;PE
125	125	110	PVC;PE
125	140	110	PVC;PE
150	160	90	PVC;PE
150	180	125	PVC;PE
200	200	125	PVC;PE
200	225	125	PVC;PE
250	250	130	PVC;PE
250	280	140	PVC;PE
300	315	150	PVC;PE
350	355	150	PVC;PE
400	400	160	PVC;PE
500	500	160	PVC;PE
600	630	160	PVC;PE

● Quick Flange Adaptor for PE/PVC Pipe

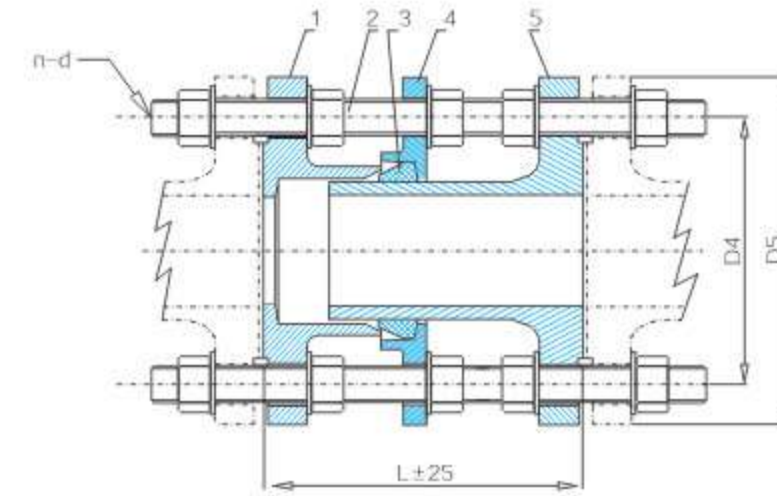


MATERIAL SPECIFICATION		
1	Adaptor	Ductile iron
2	Rubber gasket	EPDM
3	Grip ring	Copper alloy

(Unit:mm)

DN	OD	L
50	40/50	50
63	50/60/65	50
75	60/65	55
90	80	60
110	100	65
125	125	70
140	125	70
160	150	80
180	150	85
200	200	90
225	200	90
250	250	95
280	250	110
315	300	110
355	300	130
400	400	130

● Dismantling Joint



MATERIAL SPECIFICATION		
1	Adaptor	Ductile iron
2	Stub/Nut	Steel with zinc plated
3	Rubber gasket	EPDM
4	Gland	Ductile iron
5	Adaptor	Ductile iron

(Unit:mm)

DN	PN10				
	L	D4	D5	n	d
50	200	125	165	4	M16
65	200	145	185	4	M16
80	200	160	200	8	M16
100	200	180	220	8	M16
125	200	210	250	8	M16
150	200	240	285	8	M20
200	220	295	340	8	M20
250	230	350	400	12	M20
300	250	400	455	12	M20
350	260	460	505	16	M20
400	270	515	565	16	M24
450	270	565	615	20	M24
500	280	620	670	20	M24
600	300	725	780	20	M27
700	300	840	895	24	M27
800	320	950	1015	24	M30
900	320	1050	1115	28	M30
1000	340	1160	1230	28	M33
1100	340	1270	1340	32	M33
1200	360	1380	1455	32	M36
1400	380	1590	1675	36	M39

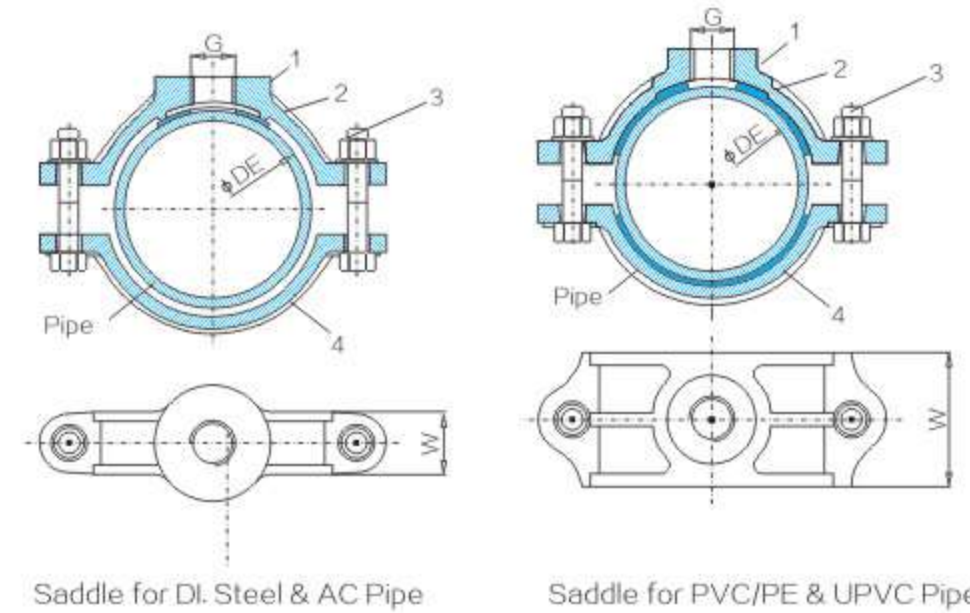
(Unit:mm)

DN	PN16				
	L	D4	D5	n	d
50	200	125	165	4	M16
65	200	145	185	4	M16
80	200	160	200	8	M16
100	200	180	220	8	M16
125	200	210	250	8	M16
150	200	240	285	8	M20
200	220	295	340	12	M20
250	230	355	400	12	M24
300	250	410	455	12	M24
350	260	470	520	16	M24
400	270	525	580	16	M27
450	270	585	640	20	M27
500	280	650	715	20	M30
600	300	770	840	20	M33
700	300	840	910	24	M33
800	320	950	1025	24	M36
900	320	1050	1125	28	M36
1000	340	1170	1255	28	M39
1100	340	1270	1355	32	M39
1200	360	1390	1485	32	M45
1400	380	1590	1685	36	M45

(Unit:mm)

DN	PN25				
	L	D4	D5	n	d
50	200	125	165	4	M16
65	200	145	185	8	M16
80	200	160	200	8	M16
100	200	190	235	8	M20
125	200	220	270	8	M24
150	200	250	300	8	M24
200	220	310	360	12	M24
250	230	370	425	12	M27
300	250	430	485	16	M27
350	260	490	555	16	M30
400	270	550	620	16	M33
450	270	600	670	20	M33
500	280	660	730	20	M33
600	300	770	845	20	M36
700	340	875	960	24	M39
800	360	990	1085	24	M45
900	380	1090	1185	28	M45
1000	400	1210	1320	28	M52
1100	420	1310	1420	32	M52
1200	450	1420	1530	32	M52
1400	480	1640	1755	36	M56

● Pipe Saddle

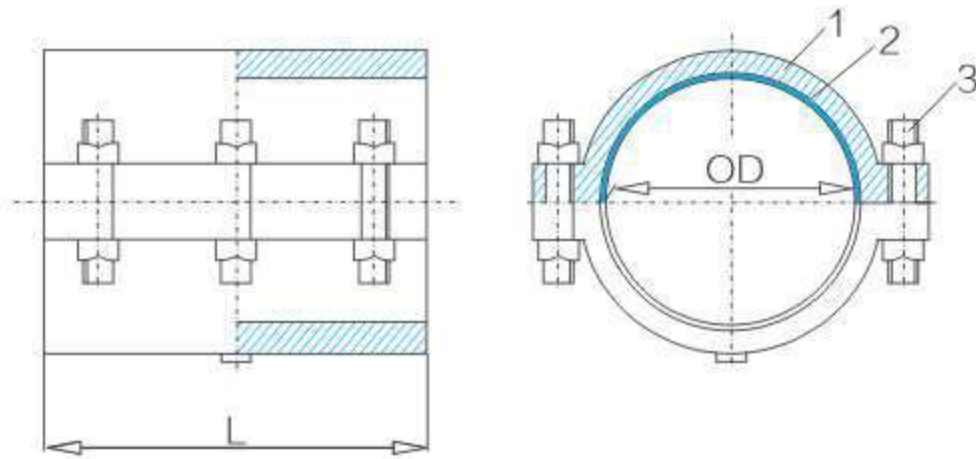


MATERIAL SPECIFICATION		
1	Upper saddle	Ductile iron
2	Rubber gasket	EPDM
3	Bolts & nuts	Steel with zinc plated
4	Bottom saddle	Ductile iron

(Unit:mm)

Saddle for DI, Steel & AC pipe			Saddle for PVC/PE pipe			Saddle for UPVC pipe		
DN	DE	W	DN	DE	W	DN	DE	W
80	98/88.9/95.5	36	63	63	75	80	88.9	80
100	118/114.3/121.9	36	75	75	75	100	114.3	80
150	170/168.3/177.3	40	90	90	75	150	168.3	100
200	222/219.1/232.2	44	110	110	80	200	219.1	100
250	274/273/286	50	160	160	100	250	273	100
300	326/323.9/345.4	50	200	200	100	300	323.9	100
-	-	-	225	225	100	-	-	-
-	-	-	280	280	100	-	-	-
-	-	-	315	315	100	-	-	-
-	-	-	400	400	100	-	-	-

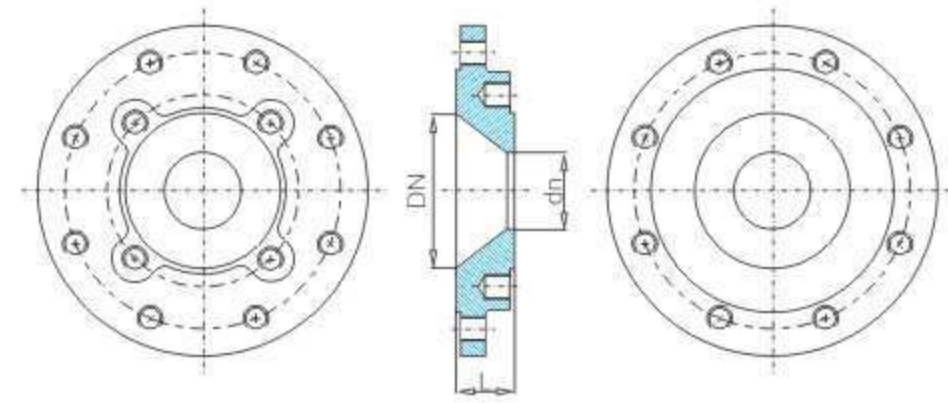
● Repair Clamp



MATERIAL SPECIFICATION		
1	Clamp	Ductile iron
2	Rubber gasket	EPDM
3	Bolts & nuts	Steel with zinc plated

(Unit:mm)		
DN	OD	L
100	118	250
150	170	250
200	222	250
250	274	250
300	326	250
350	378	250
400	429	500
450	480	500
500	532	500

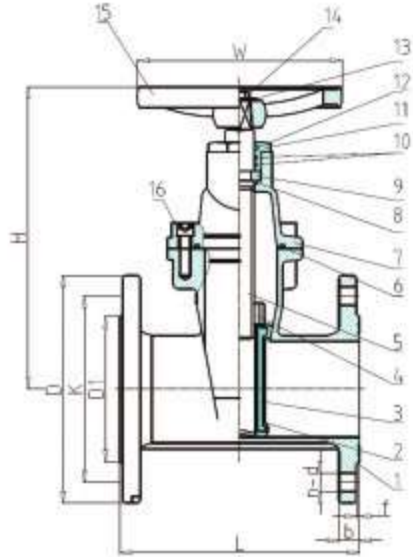
● Reducer Flange



(Unit:mm)		
DN	dn	L
60	40	45
	50	50
65	40	38
	50	45
80	40	30
	50	30
	60	33
100	65	30
	40	30
	50	30
	60	30
125	65	30
	80	31
	100	42
	60	33
	65	33
150	80	30
	100	30
	125	45
200	60	33
	65	33
	80	33
	100	33
	125	30
	150	38
250	150	40
	200	50
300	200	40

Part 6. Ductile Iron Valves

BS 5163 PN16 Ductile Iron Resilient Sealing Non-rising Stem Gate Valve, Type A



- *This valve is designed and manufactured according to BS5163 1986,2004
- *Tested according to EN1074-1,2000; EN1074-2,2000
- *Working pressure:16kg/cm²
- *Shell test pressure:24kg/cm²
- *Seat test pressure:18kg/cm²
- *Media:Water,neutral oil
- *Working temperature:0.6-52℃
- *External and internal coating:100% fushion-bonded epoxy
- *Flange drilled according to BS4504 Table 10/11,16/11; EN1092 PN10,PN16

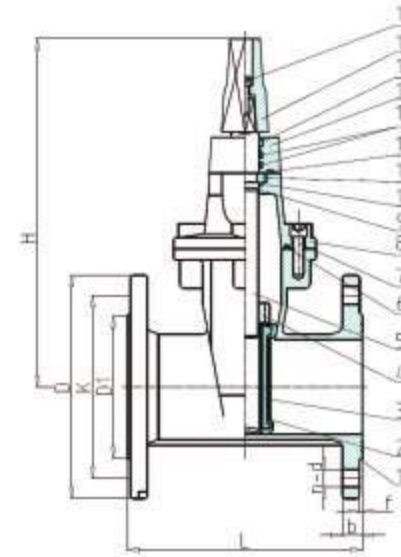
Dimension :mm (Unit:mm)

DN	L	H	D	K	D1	N-D	B	F	W	WEIGHT(KG)
50	178	216	165	125	98	4-19	19	3	160	13
65	190	247	185	145	118	4-19	19	3	160	14
80	203	272	200	160	132	8-19	19	3	200	16
100	229	305	220	180	156	8-19	19	3	200	18
125	254	330	250	210	184	8-19	19	3	254	27
150	267	382	285	240	211	8-23	19	3	254	34

Material For Main Parts (Unit:mm)

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	BS2879 500-7	DIN1693 GGG50	En1563 GJS500
2	Wedge	EPDM	BS2494	-	EN681.1
3	Wedge core	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN1563 GJS500
4	Stem nut	Copper alloy	BS2874 CZ116	CuZn39Pb2	-
5	Stem	Stainless steel	BS970 420S37	13%Cr	-
6	Gasket	EPDM	BS2494	-	EN681.1
7	Bonnet	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN1563 GJS500
8	Back seat	EPDM	BS2494	-	EN681.1
9	Collar	Copper alloy	BS2874 CZ116	CuZn39Pb2	-
10	O-ring	EPDM	BS2494	-	EN681.1
11	Hex nut	Copper alloy	BS2874 CZ116	CuZn39Pb2	-
12	Dust-proof cover	EPDM	BS2494	-	EN681.1
13	Washer	Stainless steel	BS970 304S15	-	-
14	Bolt	Stainless steel	BS970 304S15	-	-
15	Handwheel	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN1563 GJS500
16	Stud	Zinc-plated steel	BS4190	-	-

BS 5163 PN16 Ductile Iron Resilient Sealing Non-rising Stem Gate Valve, Type B



- *This valve is designed and manufactured according to BS5163 1986,2004
- *Tested according to EN1074-1,2000;EN1074-2,2000
- *Working pressure:16kg/cm²
- *Shell test pressure:24kg/cm²
- *Seat test pressure:18kg/cm²
- *Media:Water,neutral oil
- *Working temperature:0.6-52℃
- *External and internal coating:100% fushion-bonded epoxy
- *Flange drilled according to BS4504 Table 10/11,16/11; EN1092 PN10,PN16

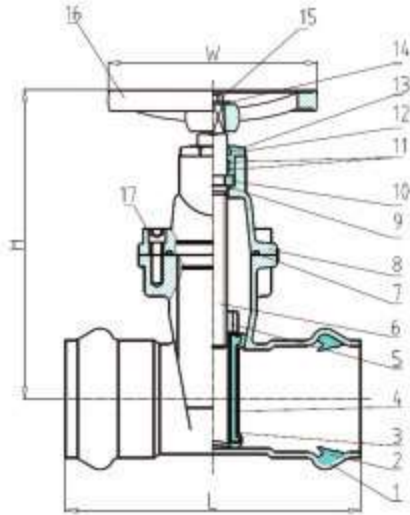
Dimension :mm (Unit:mm)

DN	L	H	D	K	D1	n-d	b	f	WEIGHT(KG)
50	178	344	165	125	98	4-19	19	3	15
65	190	381	185	145	118	4-19	19	3	18
80	203	399	200	160	132	8-19	19	3	21
100	229	421	220	180	156	8-19	19	3	24
125	254	474	250	210	184	8-19	19	3	34
150	267	512	285	240	211	8-23	19	3	44
200	292	598	340	295	266	12-23	20	3	62
250	330	701	405	355	319	12-28	22	3	99
300	356	784	460	410	370	12-28	24.5	4	140

Material For Main Parts (Unit:mm)

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	BS2879 500-7	DIN1693 GGG50	En1563 GJS500
2	Wedge	EPDM	BS2494	-	EN681.1
3	Wedge core	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN1563 GJS500
4	Stem nut	Copper alloy	BS1400 AB1	-	-
5	Stem	Stainless steel	BS970 431S29	-	-
6	Gasket	EPDM	BS2494	-	EN681.1
7	Stud	Zinc-plated steel	BS4190	-	EN1563 GJS500
8	Bonnet	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN681.1
9	O-ring	EPDM	BS2494	-	-
10	Back seat	EPDM	BS2494	-	-
11	Collar	Copper alloy	BS1400 AB1	-	EN681.1
12	O-ring	EPDM	BS2494	-	-
13	O-ring	EPDM	BS2494	-	EN681.1
14	Gland	Ductile iron	BS 2879 500-7	DIN1693 GGG50	-
15	Dust-proof cover	EPDM	BS2494	-	-
16	Cap	Ductile iron	BS 2879 500-7	DIN1693 GGG50	EN1563 GJS500
17	Stud	Zinc-plated steel	BS4190	-	-

● DIN/ISO PN16 Ductile Iron Resilient Sealing Non-rising Stem Gate Valve, Socket Type for PVC & UPVC Pipe, Type A



- *This valve is designed and manufactured according to DIN/ISO standard
- *Tested according to EN1074-1,2000; EN1074-2,2000
- *Working pressure:16kg/cm²
- *Shell test pressure:24kg/cm²
- *Seat test pressure:18kg/cm²
- *Media: Water,neutral oil
- *Working temperature:0.6-52℃
- *External and internal coating:100% fusion-bonded epoxy
- *Used for PVC & UPVC pipe

Dimension :mm

(Unit:mm)

DN	PIPE O.D.	L	H	W	WEIGHT(KG)
50	63	250	216	160	11
65	75	270	247	160	12
80	90	280	272	200	14
100	110	300	305	200	16
150	160	350	382	254	31

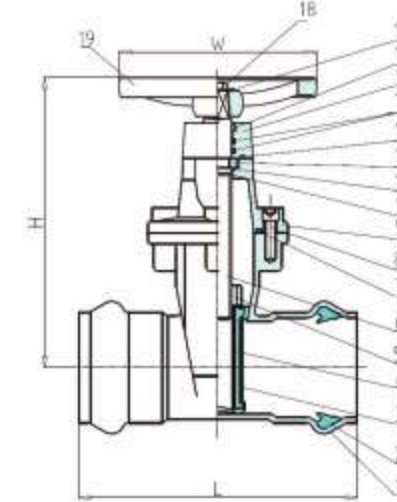
Material For Main Parts

(Unit:mm)

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	BS2879 500-7	DIN1693 GGG50	En1563 GJS500
2	Sealing ring	EPDM	BS2494	-	ED681.1
3	Wedge	EPDM	BS2494	-	EN681.1
4	Wedge core	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN1563 GJS500
5	Stem nut	Copper alloy	BS2874 CZ116	CuZn39Pb2	-
6	Stem	Stainless steel	BS970 420S37	13%Cr	-
7	Gasket	EPDM	BS2494	-	EN681.1
8	Bonnet	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN1563 GJS500
9	Back seat	EPDM	BS2494	-	EN681.1
10	Collar	Copper alloy	BS2874 CZ116	CuZn39Pb2	-
11	O-ring	EPDM	BS2494	-	EN681.1
12	Hex nut	Copper alloy	BS2874 CZ116	CuZn39Pb2	-
13	Dust-proof cover	EPDM	BS2494	-	EN681.1
14	Washer	Stainless steel	BS970 304S15	-	-
15	Bolt	Stainless steel	BS970 304S15	-	-
16	Handwheel	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN1563 GJS500
17	Stud	Zinc-plated steel	BS4190	-	-

(Unit:mm)

● DIN/ISO PN16 Ductile Iron Resilient Sealing Non-rising Stem Gate Valve, Socket Type for PVC & UPVC Pipe, Type B



- *This valve is designed and manufactured according to DIN/ISO standard
- *Tested according to EN1074-1,2000; EN1074-2,2000
- *Working pressure:16kg/cm²
- *Shell test pressure:24kg/cm²
- *Seat test pressure:18kg/cm²
- *Media: Water,neutral oil
- *Working temperature:0.6-52℃
- *External and internal coating:100% fusion-bonded epoxy
- *Used for PVC & UPVC pipe

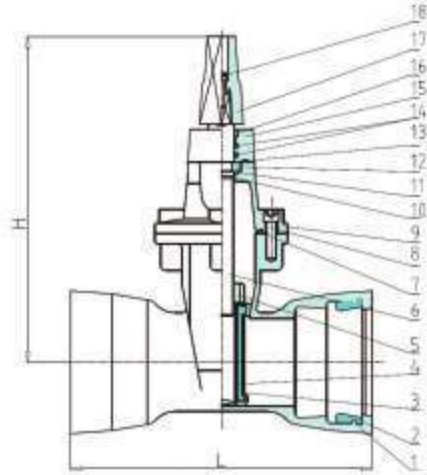
DN	PIPE O.D.	L	H	W	WEIGHT(KG)
50	63	250	372	160	13
65	75	270	317	200	15
80	90	280	335	200	18
100	110	300	357	254	21
150	160	350	446	315	40
200	200	400	530	356	57
200	225	400	530	356	59
250	250	450	635	406	92
250	280	450	635	406	94
300	310	500	718	406	140

Material For main Parts

(Unit:mm)

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	BS2879 500-7	DIN1693 GGG50	En1563 GJS500
2	Sealing ring	EPDM	BS2494	-	ED681.1
3	Wedge	EPDM	BS2494	-	EN681.1
4	Wedge core	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN1563 GJS500
5	Stem nut	Copper alloy	BS1400 AB1	-	-
6	Stem	Stainless steel	BS970 431S29	-	-
7	Gasket	EPDM	BS2494	-	EN681.1
8	Stud	Zinc-plated steel	BS4190	-	EN1563 GJS500
9	Bonnet	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN681.1
10	O-ring	EPDM	BS2494	-	-
11	Back seat	EPDM	BS2494	-	-
12	Collar	Copper alloy	BS1400 AB1	-	EN681.1
13	O-ring	EPDM	BS2494	-	-
14	O-ring	EPDM	BS2494	-	EN681.1
15	Gland	Ductile iron	BS 2879 500-7	DIN1693 GGG50	-
16	Dust-proof cover	EPDM	BS2494	-	-
17	Washer	Stainless steel	BS970 304S15	-	-
18	Bolt	Stainless steel	BS970 304S15	-	-
19	Handwheel	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN1563 GJS500

PN16 Ductile Iron Resilient Sealing Non-rising Stem Gate Valve, "T" Joint For Ductile Iron Pipe



- *This valve is designed and manufactured according to DIN/ISO standard
- *Tested according to EN1074-1,2000; EN1074-2,2000
- *Working pressure:16kg/cm²
- *Shell test pressure:24kg/cm²
- *Seat test pressure:18kg/cm²
- *Media:Water,neutral oil
- *Working temperature:0.6-52℃
- *External and internal coating:100% fusion-bonded epoxy
- *Used for ductile iron pipe

Dimension :mm

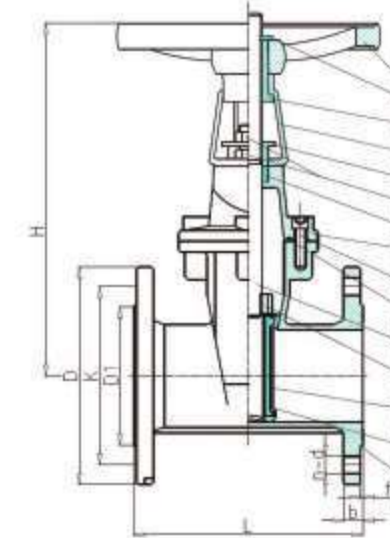
(Unit:mm)

DN	PIPE O.D.	L	L1	H	WEIGHT(KG)
80	98	284	192	399	19
100	118	306	210	421	22
150	170	337	241	512	42
200	222	355	243	598	59

Material For Main Parts

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	BS2879 500-7	DIN1693 GGG50	En1563 GJS500
2	Sealing ring	EPDM	BS2494	-	EN681.1
3	Wedge	EPDM	BS2494	-	EN681.1
4	Wedge core	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN1563 GJS500
5	Stem nut	Copper alloy	BS1400 AB1	-	-
6	Stem	Stainless steel	BS970 431S29	-	-
7	Gasket	EPDM	BS2494	-	EN681.1
8	Stud	Zinc-plated steel	BS4190	-	EN1563 GJS500
9	Bonnet	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN681.1
10	O-ring	EPDM	BS2494	-	-
11	Back seat	EPDM	BS2494	-	-
12	Collar	Copper alloy	BS1400 AB1	-	EN681.1
13	O-ring	EPDM	BS2494	-	-
14	O-ring	EPDM	BS2494	-	EN681.1
15	Gland	Ductile iron	BS 2879 500-7	DIN1693 GGG50	-
16	Dust-proof cover	EPDM	BS2494	-	-
17	Cap	Ductile iron	BS 2879 500-7	DIN1693 GGG50	EN1563 GJS500
18	Stud	Zinc-plated steel	BS4190	-	-

BS5150 PN16 Ductile Iron Resilient Sealing Rising Stem Gate Valve



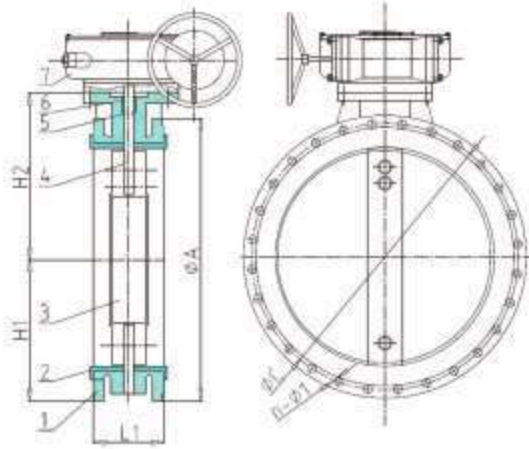
- *This valve is designed and manufactured according to BS5150 1990
- *Tested according to EN1074-1,2000;EN1074-2,2000
- *Working pressure:16kg/cm²
- *Shell test pressure:24kg/cm²
- *Seat test pressure:18kg/cm²
- *Media:Water,neutral,oil
- *Working temperature:0.6-52℃
- *External and internal coating:100%fusion-bonded epoxy
- *Flange drilled according to BS4504 Table 10/11,16/11; EN1092 PN10 PN16

(Unit:mm)

DN	L	H	D	K	D1	n-d	b	f	W	WEIGHT(KG)
50	178	311	165	125	98	4-19	19	3	160	18
65	190	369	185	145	118	4-19	19	3	200	21
80	203	387	200	160	132	8-19	19	3	200	25
100	229	409	220	180	156	8-19	19	3	254	30
150	267	544	285	240	211	8-23	19	3	315	50
200	292	682	340	295	266	12-23	20	3	356	72
250	330	831	405	355	319	12-28	22	3	406	114
300	356	972	460	410	370	12-28	24.5	4	406	160

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	BS2879 500-7	DIN1693 GGG50	En1563 GJS500
2	Sealing ring	EPDM	BS2494	-	EN681.1
2	Wedge	EPDM	BS2494	-	EN681.1
3	Wedge core	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN1563 GJS500
4	Fasten nut	copper alloy	BS2874 CZ116	CuZn39Pb2	-
5	Stem	Stainless steel	BS970 420S37	13%Cr	-
6	Gasket	EPDM	BS2494	-	EN681.1
7	Stud	Zinc-plated steel	BS4190	-	EN1563 GJS500
8	Bonnet	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN681.1
9	Packing	Teflon	-	-	-
10	Nut	Zinc-plated steel	BS4190	-	EN1563 GJS500
11	Gland	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN681.1
12	Yoke	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN681.1
13	Stem nut	copper alloy	BS2874 CZ116	CuZn39Pb2	-
14	Locking nut	copper alloy	BS2874 CZ116	CuZn39Pb2	-
15	Handwheel	Ductile iron	BS2879 500-7	DIN1693 GGG50	EN681.1

● Flanged Butterfly Valve PN10/16

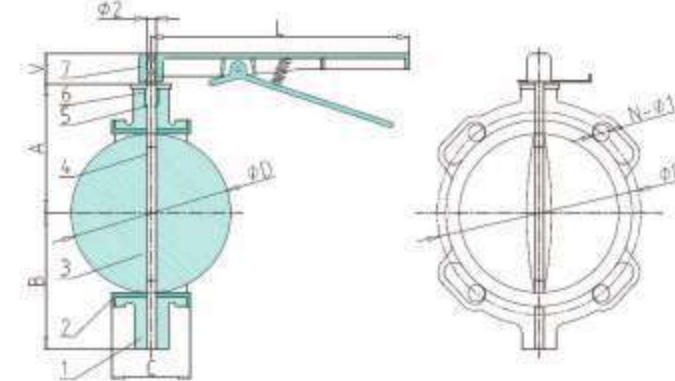


- *This valve is designed and manufactured according to BS En593
- *Working pressure: 16kg/cm²
- *Shell test pressure: 24kg/cm²
- *Seat test pressure: 18kg/cm²
- *Media: Water, neutral, oil
- *Working temperature: 0.6-52°C
- *External and internal coating: 100% fusion-bonded epoxy
- *Flange drilled according to DIN PN10, PN16; EN1092 PN10, PN16

DN		Dimensions(mm)						
Inch	mm	L1	H1	H2	φA	φC	n-φ1	ISO2511
2"	50	108	63	110	165	125	4-φ19	F07
2.5"	65	112	71	135	185	145	4-φ19	F07
3"	80	114	80	145	200	160	8-φ19	F07
4"	100	127	90	150	220	180	8-φ19	F07
5"	125	140	107	170	250	210	8-φ19	F07
6"	150	140	123	180	285	240	8-φ23	F07
8"	200	152	153	210	340	295	12-φ23	F10
10"	250	165	185	245	400	355	12-φ28	F10
12"	300	178	213	275	455	410	12-φ28	F10
14"	350	190	254	310	520	470	16-φ28	F12
16"	400	216	280	340	580	525	16-φ31	F14
18"	450	222	320	375	615	585	20-φ31	F14
20"	500	229	350	430	715	650	20-φ34	F16
Inch	mm	L1	H1	H2	φA	φC	n-φ1	ISO2511
PN10								
24"	600	267	418	500	780	725	20-φ31	F16
28"	700	292	450	575	910	840	24-φ31	F25
32"	800	318	501	620	1025	950	24-φ34	F25

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	Bs2789 500-7	DIN1693 GGG50	En1563 GJS500
2	Seat	EPDM	BS2494	-	EN681.1
3	Disc	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
4	Stem	Stainless steel	BS970 420S37	13%Cr	-
5	O-Ring	EPDM	BS2494	-	EN681.1
6	Bushing	Nylon1010	-	-	-
7	Gear box	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500

● BS EN 593 Water Butterfly Valve PN10/16

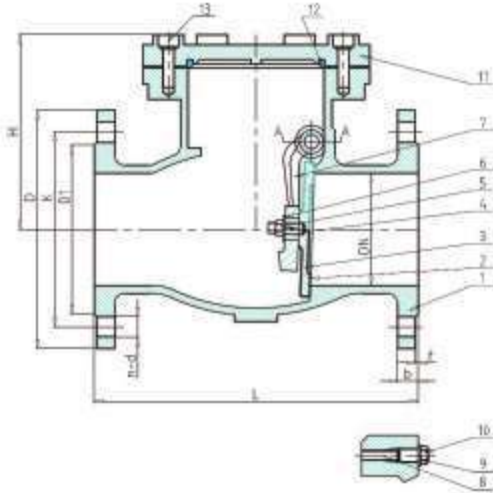


- *This valve is designed and manufactured according to BS En593
- *Working pressure: 16kg/cm²
- *Shell test pressure: 24kg/cm²
- *Seat test pressure: 18kg/cm²
- *Media: Water, neutral, oil
- *Working temperature: 0.6-52°C
- *External and internal coating: 100% fusion-bonded epoxy

DN		Dimensions(mm)									
Inch	mm	A	B	V	C	φD	φ2	L	φD1	N-φ1	ISO5211
1.5"	40	138	64.5	32	33	43.9	14	267	110	4-φ19	F07
2"	50	140.5	64.5	32	43	53.9	14	267	125	4-φ19	F07
2.5"	65	153	72	32	46	65.2	14	267	145	4-φ19	F07
3"	80	157.5	86	32	46	79.7	14	267	160	8-φ19	F07
4"	100	176	100	32	52	105	16	267	180	8-φ19	F07
5"	125	191	112	32	56	130	16	267	210	8-φ19	F07
6"	150	202.5	128	32	56	156	20	267	240	8-φ23	F07
8"	200	243.5	162	45	60	206.7	26	356	295	12-φ23	F10
10"	250	273	194	45	68	253.3	26	490	355	12-φ28	F10
12"	300	311	223	45	78	301.9	28	490	410	12-φ28	F10
14"	350	340	267	48	78	333.9	31.6	-	470	16-φ28	F12
16"	400	400	319.5	48	102	389.6	33.2	-	525	16-φ31	F14
18"	450	422	345.4	48	114	441	38.1	-	585	20-φ31	F14
20"	500	480	380	70.2	127	492.4	41.2	-	650	20-φ34	F16
24"	600	562	441	70.2	154	592.8	50.6	-	770	20-φ37	F16
Inch	mm	A	B	V	C	φD	φ2	L	φD1	N-φ1	ISO5211
PN10											
28"	700	575	505	70.2	165	695	63.4	-	840	24-φ31	F25
30"	750	660	550	70.2	165	744	63.4	-	900	24-φ34	F25
32"	800	667	577	70.2	190	795.7	63.4	-	950	24-φ34	F25

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	Bs2789 500-7	DIN1693 GGG50	En1563 GJS500
2	Seat	EPDM	BS2494	-	EN681.1
3	Disc	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
4	Stem	Stainless steel	BS970 420S37	13%CR	-
5	O-Ring	EPDM	BS2494	-	EN681.1
6	Bushing	Nylon1010	-	-	-
7	Lever	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500

● DIN PN16 Ductile Iron Resilient Sealing Swing Check Valve



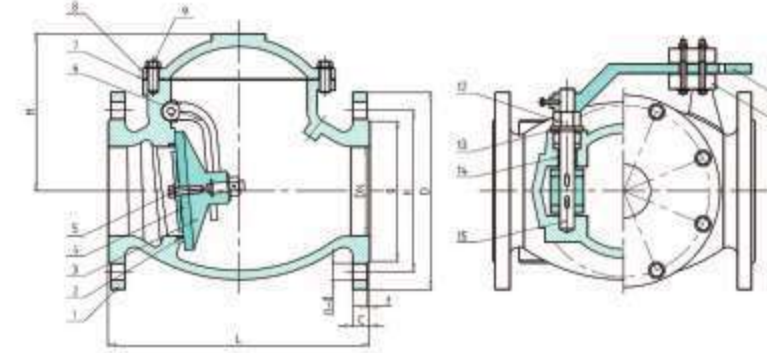
- *This valve is designed and manufactured according to DIN standard
- *Working pressure: 16kg/cm²
- *Shell test pressure: 24kg/cm²
- *Seat test pressure: 18kg/cm²
- *Media: Water, neutral, oil
- *Working temperature: 0.6-52℃
- *External and internal coating: 100% fusion-bonded epoxy
- *Flange drilled according to DIN PN10, PN16; EN1092 PN10, PN16

(Unit:mm)

DN	L	H	D	K	D1	n-d	b	f	WEIGHT(KG)
50	200	134	165	125	99	4-19	19	3	11
65	240	140	185	145	118	4-19	19	3	15
80	260	157	200	160	132	8-19	19	3	20
100	300	180	220	180	156	8-19	19	3	25
125	350	187	250	210	184	8-19	19	3	32
150	400	232	285	240	211	8-23	19	3	41
200	500	265	340	295	266	12-23	20	3	79
250	600	285	405	355	319	12-28	22	3	133
300	700	327	460	410	370	12-28	24.5	4	198
350	800	368	520	470	429	16-28	26.5	4	333

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	Bs2789 500-7	DIN1693 GGG50	En1563 GJS500
2	Disc bonding	EPDM	BS2494	-	EN681.1
3	Disc	Ductile iron	Bs2789 500-7	DIN1693 GGG50	EN1563 GJS500
4	Bolt	Zinc-plated steel	BS4190	-	-
5	Nut	Zinc-plated steel	BS4190	-	-
6	Washer	Stainless steel	BS970 304S15	-	-
7	Hinge	Ductile iron	Bs2789 500-7	DIN1693 GGG50	EN1563 GJS500
8	Hinge pin	Stainless steel	BS970 304S15	-	-
9	Washer	Stainless steel	BS970 304S15	-	-
10	Screw nut	Zinc-plated steel	BS4190	-	-
11	Bonnet	Ductile iron	Bs2789 500-7	DIN1693 GGG50	EN1563 GJS500
12	Gasket	EPDM	BS2494	-	EN681.1
13	Stud	Zinc-plated steel	BS4190	-	-

● DIN PN16 Ductile Iron Resilient Sealing Swing Check Valve With Weight

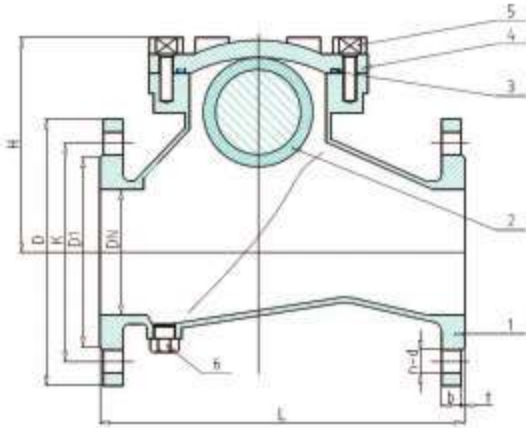


- *This valve is designed and manufactured according to DIN standard
- *Working pressure: 16kg/cm²
- *Shell test pressure: 24kg/cm²
- *Seat test pressure: 18kg/cm²
- *Media: Water, neutral, oil
- *Working temperature: 0.6-52℃
- *External and internal coating: 100% fusion-bonded epoxy
- *Flange drilled according to DIN PN10, PN16; EN1092 PN10, PN16

DN		PN	Dimensions(mm)							
Inch	mm		L	D	K	g	C	r	n-d	H
2"	50	10/16	203	165	125	99	19	3	4-φ19	145
2½"	65	10/16	216	185	145	118	19	3	4-φ19	157
3"	80	10/16	241	200	160	132	19	3	8-φ19	173
4"	100	10/16	292	220	180	156	19	3	8-φ19	176
6"	150	10/16	356	250	210	184	19	3	8-φ19	238
8"	200	10	495	340	295	266	20	3	8-φ23	273
		16							12-φ23	
10"	250	10	622	405	350	319	22	3	12-φ23	329
		16			355				12-φ28	
12"	300	10	698	460	400	370	24.5	4	12-φ23	358
		16			410				12-φ28	
14"	350	10	787	520	460	429	26.5	4	16-φ23	470
		16			470				16-φ28	
16"	400	10	914	580	515	480	28	4	16-φ28	535
		16			525				16-φ31	

Part No	Part	Standard Specification	Options
1	Valve Body	Cast Iron EN-GJL-200	EN-GJS-450-10
2	Seat	Bronze ZQSn5-5-5	SS304,316 Pressed Fit or Threaded
3	Disc	EN-GJS-450-10	-
4	Disc Seat Ring	EPDM	SS304,316 Pressed Fit or Threaded
5	Bolt	SS304	SS316
6	Clapper Arm	EN-GJS-450-10	-
7	Bonnet Gasket	EPDM	-
8	Bonnet	Cast Iron EN-GJL-200	EN-GJS-450-10
9	Bolt	Carbon Steel Zinc Plated	SS316
10	Weight	Cast Iron EN-GJL-200	EN-GJS-450-10
11	Lever	Carbon Steel Zinc Plated	-
12	Seat Nut	Brass CW603N	-
13	O-Ring	NBR	EPDM
14	Hinge Bushing	Brass CW603N	-
15	Hinger Pin	Ss304	SS316

● DIN PN16 Ductile Iron Resilient Sealing Ball Check Valve



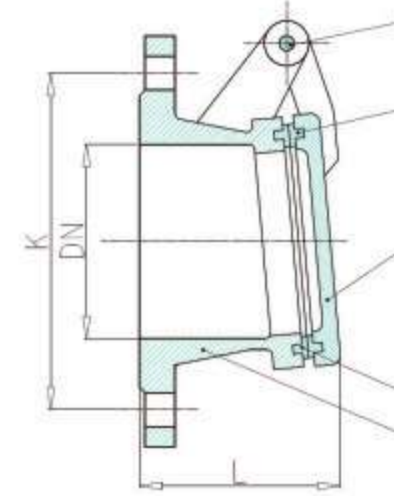
- *This valve is designed and manufactured according to DIN standard
- *Working pressure: 16kg/cm²
- *Shell test pressure: 24kg/cm²
- *Seat test pressure: 18kg/cm²
- *Media: Water, neutral, oil
- *Working temperature: 0.6-52℃
- *External and internal coating: 100% fusion-bonded epoxy
- *Flange drilled according to DIN PN10, PN16; EN1092 PN10, PN16

(Unit:mm)

DN	L	H	D	K	D1	n-d	b	f	WEIGHT(KG)
50	200	126	165	125	98	4-19	19	3	8
65	240	145	185	145	118	4-19	19	3	11.5
80	260	173	200	160	132	8-19	19	3	16
100	300	186	220	180	156	8-19	19	3	22
125	350	237	250	210	184	8-19	19	3	33
150	400	287	285	240	211	8-23	19	3	45
200	500	320	340	295	266	12-23	20	3	90
250	600	443	405	355	319	12-28	22	3	163
300	700	529	460	410	370	12-28	24.5	4	230

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	BS2789 500-7	DIN1693 GGG50	En1563 GJS500
2	Float ball	ABS+EPDM	BS2494	-	EN681.1
3	Gasket	EPDM	BS2494	-	EN681.1
4	Bonnet	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
5	Stud	Zinc-plated steel	BS4190	-	-
6	Drain plug	Malleable iron	-	-	-

● Ductile Iron Flap Valve

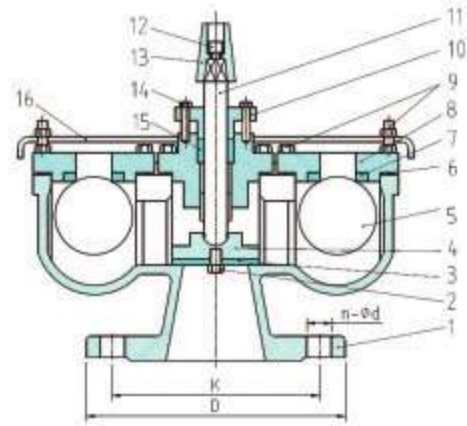


- *This valve is designed and manufactured according to DIN standard
- *Working pressure: 16kg/cm²
- *Shell test pressure: 24kg/cm²
- *Seat test pressure: 18kg/cm²
- *Media: Water
- *Working temperature: 0.6-52℃
- *External and internal coating: 100% fusion-bonded epoxy
- *Flange drilled according to DIN PN10, PN16; EN1092 PN10, PN16

DN	L	K	n	d	WEIGHT(KG)
80	67	160	4	19	6.6
100	73	180	4	19	8.2
150	83	240	4	23	12.1
200	77	295	4	23	16.3
250	75	355	4	28	19.2
300	83	410	4	28	28
350	93	470	4	28	35
400	95	525	4	31	42
450	100	585	4	31	55
500	103	650	4	34	64
600	110	770	4	37	82

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
2	Body face	Copper alloy	-	-	-
3	Cover	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
4	Cover face	Copper alloy	-	-	-
5	Lock cap	Stainless steel	BS970 304S15	-	-

● Ductile Iron Air Release Valve, Double Orifice



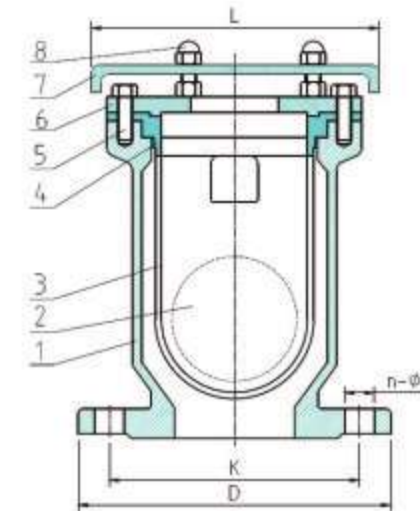
- *This valve is designed and manufactured according to DIN standard
- *Working pressure: 16kg/cm²
- *Shell test pressure: 24kg/cm²
- *Seat test pressure: 18kg/cm²
- *Media: Water
- *Working temperature: 0.6-52℃
- *External and internal coating: 100% fusion-bonded epoxy
- *Flange drilled according to DIN PN10, PN16; EN1092 PN10, PN16

(Unit:mm)

DN	PN10				PN16			
	D	K	n	d	D	K	n	d
40	150	110	4	18	150	110	4	18
50	165	125	4	18	165	125	4	18
65	185	145	4	18	185	145	4	18
80	200	160	4	18	200	160	4	18
100	220	180	8	18	220	180	8	18
125	250	210	8	18	250	210	8	18
150	285	240	8	23	285	240	8	23
200	340	295	8	23	340	295	12	23

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
2	BOLT	Zinc-plated steel	BS4190	-	-
3	Seat ring	EPDM	BS2494	-	-
4	Seat	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
5	Float	ABS	BS970 304S15	-	-
6	O-ring	EPDM	BS2494	-	-
7	Fliat guide	ABS	-	-	-
8	Cover	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
9	Bolts & nuts	Zinc-plated steel	BS4190	-	-
10	Gland	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
11	Stem	Stainless steel	BS970 304S15	-	-
12	Stub	Zinc-plated steel	BS4190	-	-
13	Cap	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
14	Bolts	Zinc-plated steel	BS4190	-	-
15	Sealing	Nylon	-	-	-
16	Cowl	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500

● Ductile Iron Air Release Valve, Single Orifice



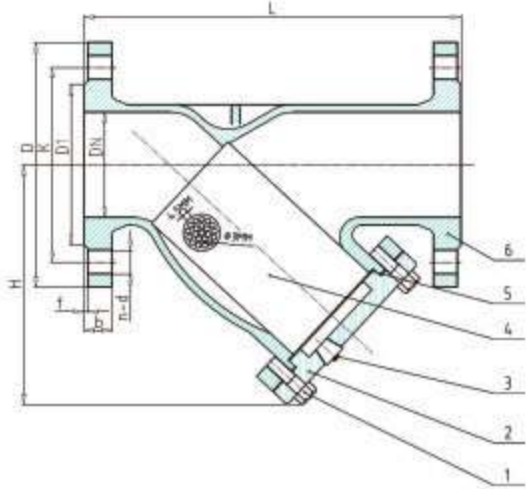
- *This valve is designed and manufactured according to DIN standard
- *Working pressure: 16kg/cm²
- *Shell test pressure: 24kg/cm²
- *Seat test pressure: 18kg/cm²
- *Media: Water
- *Working temperature: 0.6-52℃
- *External and internal coating: 100% fusion-bonded epoxy
- *Flange drilled according to DIN PN10, PN16; EN1092 Pn10, PN16

(Unit:mm)

DN	L	PN10				PN16			
		D	K	n	d	D	K	n	d
50	175	165	125	4	18	165	125	4	18
65	175	185	145	4	18	185	145	4	18
80	195	200	160	4	18	200	160	4	18
100	195	220	180	8	18	220	180	8	18
125	240	250	210	8	18	250	210	8	18
150	240	285	240	8	23	285	240	8	23
200	280	340	295	8	23	340	295	12	23
280	340	400	350	12	23	400	355	12	28
300	340	455	400	12	23	455	410	12	28

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
2	Ball	Stainless steel	BS970 304S15	-	-
3	Bracket	Plastics	-	-	-
4	Sealing Gasket	EPDM	BS2494	-	-
5	Bolts & nuts	Zinc-plated steel	BS4190	-	-
6	Bonnet 1	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
7	Bonnet 2	Steel	BS4190	-	-
8	Bolts & nuts	Zinc-plated steel	BS4190	-	-

● Ductile Iron Y-strainer



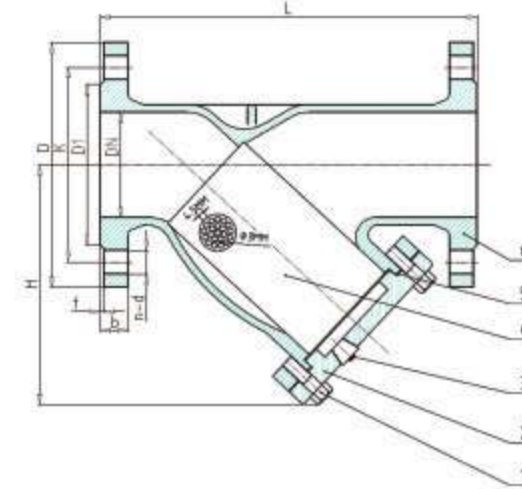
- *This valve is designed and manufactured according to DIN standard
- *Working pressure: 16kg/cm²
- *Shell test pressure: 24kg/cm²
- *Seat test pressure: 18kg/cm²
- *Media: Water, neutral, oil
- *Working temperature: 0.6-52°C
- *External and internal coating: 100% fusion-bonded epoxy
- *Flange drilled according to BS4504 Table 10/11, 16/11; EN1092 PN10, PN16

(Unit:mm)

DN	L	H	D	K	D1	n-d	b	f	WEIGHT(KG)
50	225	152	165	125	98	4-19	19	3	9
65	273	203	185	145	118	4-19	19	3	14
80	292	222	200	160	132	8-19	19	3	16
100	352	241	220	180	156	8-19	19	3	23
125	416	292	250	210	184	8-19	19	3	38
150	470	320	285	240	211	8-23	19	3	45
200	543	416	340	295	266	12-23	20	3	70
250	660	483	405	355	319	12-28	22	3	105
300	762	558	460	410	370	12-28	24.5	4	180
350	949	795	520	470	429	16-28	26.5	4	365

No	Part	Material	Standard		
			BS	DIN	EN
1	Bolt	Zinc-plated	BS4190	DIN1693 GGG50	EN1563 GJS500
2	Cover	Ductile iron	BS2789 500-7	-	-
3	Drain plug	Malleable iron	-	-	-
4	Screen	Stainless Steel	BS970 304S15	-	EN681.1
5	Gasket	EPDM	BS2494	DIN1693 GGG50	EN1563 GJS500
6	Body	Ductile iron	BS2789 500-7	-	-

● DIN F1 Ductile Iron Y-Strainer



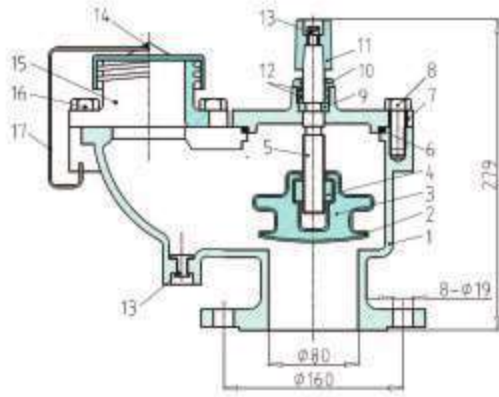
- *This valve is designed and manufactured according to DIN standard
- *Working pressure: 16kg/cm²
- *Shell test pressure: 24kg/cm²
- *Seat test pressure: 18kg/cm²
- *Media: Water, neutral, oil
- *Working temperature: 0.6-52°C
- *External and internal coating: 100% fusion-bonded epoxy
- *Flange drilled according to BS4504 Table 10/11, 16/11; EN1092 PN10, PN16

(Unit:mm)

DN	L	H	D	K	D1	n-d	b	f	WEIGHT(KG)
50	230	152	165	125	98	4-19	19	3	9
65	290	203	185	145	118	4-19	19	3	14.5
80	310	222	200	160	132	8-19	19	3	17
100	350	241	220	180	156	8-19	19	3	23
125	400	292	250	210	184	8-19	19	3	38
150	480	320	285	240	211	8-23	19	3	45
200	600	416	340	295	266	12-23	20	3	74
250	730	483	405	355	319	12-28	22	3	115
300	850	558	460	410	370	12-28	24.5	4	195
350	980	795	520	470	429	16-28	26.5	4	395

No	Part	Material	Standard		
			BS	DIN	EN
1	Bolt	Zinc-plated	BS4190	DIN1693 GGG50	EN1563 GJS500
2	Cover	Ductile iron	BS2789 500-7	-	-
3	Drain plug	Malleable iron	-	-	-
4	Screen	Stainless Steel	BS970 304S15	-	EN681.1
5	Gasket	EPDM	BS2494	DIN1693 GGG50	EN1563 GJS500
6	Body	Ductile iron	BS2789 500-7	-	-

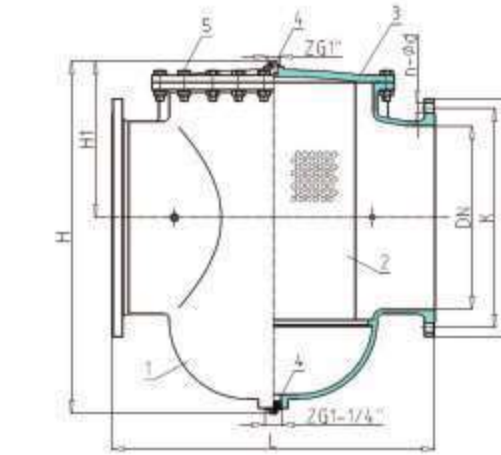
● BS750 Ductile Iron Fir Hydrant (london round)



- *This valve is designed and manufactured according to BS750
- *Working pressure: 16kg/cm²
- *Shell test pressure: 24kg/cm²
- *Seat test pressure: 18kg/cm²
- *Media: Water
- *Working temperature: 0.6-52℃
- *External and internal coating: 100% fusion-bonded epoxy
- *Flange drilled according to DIN PN10, PN16; EN1092 PN10, PN16

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
2	Disc bonding	EPDM	BS2494	-	-
3	Disc	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
4	Stem nut	Copper alloy	BS1400 AB1	-	-
5	Stem	Stainless steel	BS970 431S29	-	-
6	Gasket	EPDM	BS2494	-	-
7	Bonnet	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
8	Bolt	Zinc-plated steel	BS4190	-	-
9	Collar	Copper alloy	BS1400 AB1	-	-
10	Hex. Nut	Copper alloy	BS1400 AB1	-	-
11	Cap	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
12	O-ring	EPDM	BS2494	-	-
13	Stud	Zinc-plated steel	BS4190	-	-
14	Protect cap	Plastic	-	-	-
15	Outlet	Copper alloy	BS1400 AB1	-	-
16	Bolt	Zinc-plated steel	BS4190	-	-
17	Wire	-	-	-	-
18	Drain piug	Nylon	-	-	-

(Unit:mm)

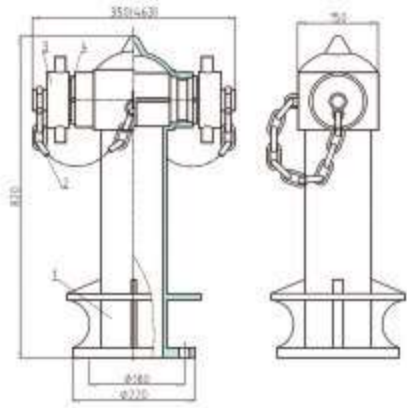


- *This valve is designed and manufactured according to BS standard
- *Working pressure: 16kg/cm²
- *Shell test pressure: 24kg/cm²
- *Seat test pressure: 18kg/cm²
- *Media: Water, neutral, oil
- *Working temperature: 0.6-52℃
- *External and internal coating: 100% fusion-bonded epoxy
- *Flange drilled according to BS4504 Table 10/11, 16/11; EN1092 PN10, PN16

DN	L	H	H1	D	K	n	d
80	300	301	138	200	160	8	19
100	340	333	150	220	180	8	19
150	420	415	182	285	240	8	23
200	480	518	214	340	295	12	23
250	586	577	245	400	355	12	28
300	658	650	275	455	410	12	28
350	698	780	350	520	470	16	28
400	768	860	380	580	525	16	31
450	838	935	410	640	585	20	31
500	908	1045	480	715	650	20	34
600	1070	1250	550	840	770	20	37
700	1240	1340	590	910	840	24	37
800	1380	1560	660	1025	950	24	41
900	1520	1720	760	1125	1050	28	41

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
2	Screen & frame	Stainless Steel	BS970 304S15	-	-
3	Cover	Ductile iron	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
4	Plug	Stainless Steel	BS970 304S15	-	-
5	Bolts & Nuts	Stainless Steel	BS970 304S15	-	-

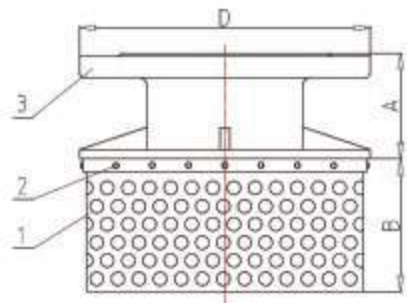
● BS750 Ductile Iron Fire Hydrant



- *This valve is designed and manufactured according to BS750 1984
- *Working pressure:16kg/cm²
- *Shell test pressure:24kg/cm²
- *Seat test pressure:18kg/cm²
- *Media: Water
- *Working temperature:0.6-52℃
- *Flange drilled according to BS4504 Table 10/11,16/11; EN1092 PN10,PN16

No	Part	Material	Standard		
			BS	DIN	EN
1	Body	Ductile iron	BS2789 500-7	DIN1693 GGG50	-
2	Chain	Zinc-plated steel	-	-	EN1563 GJS500
3	Cap	Ductile iron	BS2789 500-7	DIN1693 GGG50	-
4	Outlet	Copper alloy	BS2874 CZ116	CuZn39Pb2	EN1563 GJS500

● Ductile Iron Rose Strainer



- *This valve is designed and manufactured according to BS standard
- *Media: Water
- *Working temperature:0.6-52℃
- *External and internal coating:100% fusion-bonded epoxy
- *Flange drilled according to BS4504 Table 10/11,16/11; EN1092 PN10,PN16

(Unit:mm)

DN	L	H	H1
50	50	70	165
65	65	70	185
80	80	80	200
100	100	80	220
150	150	80	285
200	200	100	340
250	250	100	400

(Unit:mm)

DN	L	H	H1
300	300	120	455
350	350	120	520
400	400	125	580
450	450	130	640
500	500	140	715
600	600	150	840
700	700	160	910
800	800	170	1025

No	Part	Material	Standard		
			BS	DIN	EN
1	Screen & frame	Stainless Steel	BS970 304S15	-	-
2	Bolts & Nuts	Stainless Steel	BS970 304S15	-	-
3	Body	Ductile iron	BS2789 500-7	DIN1693 GGG50	En1563 GJS500

Normative references

- ANSI/AWWA C110:Ductile-iron and grey-iron fittings for water
- ASME B16.1:Grey iron pipe flanges and flanged fittings
- AS/NZS 2280:Ductile iron pipes and fittings
- BS 10:Specifications for flange and bolting for pipes, valves and fittings
- BS 5163:Valves for water works purposes
- BS 750:Specifications for underground fire hydrants and surface box frames and covers
- BS EN 545:Ductile iron pipes, fittings, accessories and their joints for water pipelines
- BS EN 1092:Flanges and their joints
- BS EN 681:Elastomeric seals
- BS EN 197:Cement
- BS EN 14525:Ductile iron wide tolerance couplings and flange adaptors for use with pipes of different materials
- BS EN 1074:Valves for water supply
- BS EN 12842:Ductile iron fittings for PVC-U or PE piping system
- ISO 2531:Ductile iron pipes, fittings, accessories and their joints for water applications
- JIS G 5527:Ductile iron fittings