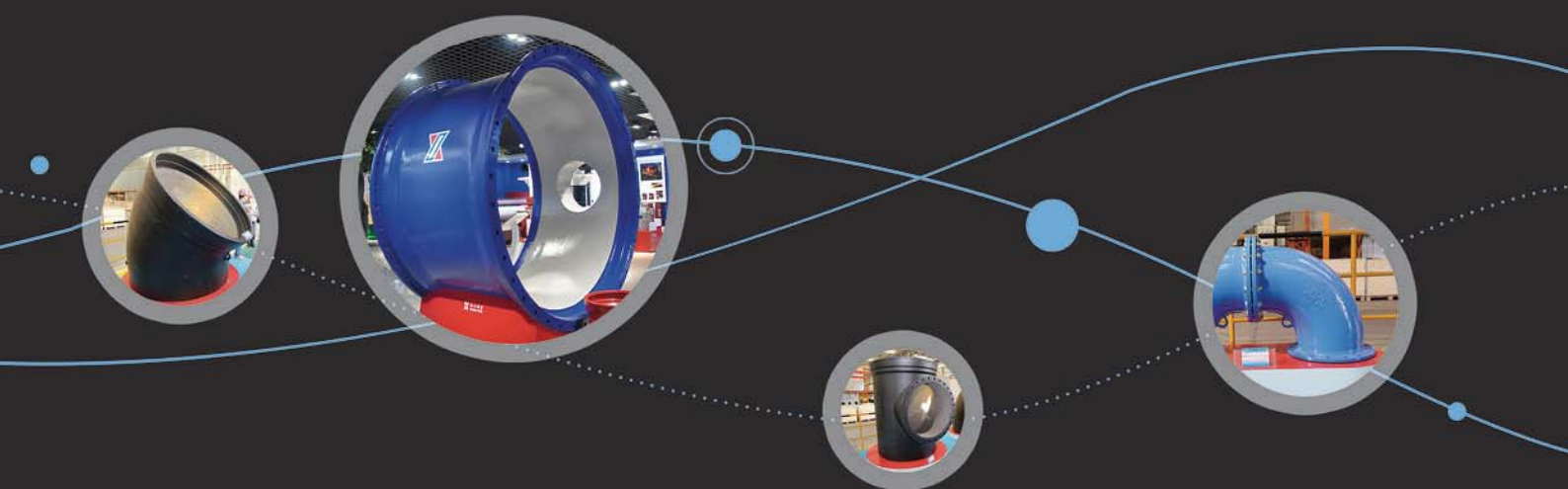


XINXING DUCTILE IRON FITTINGS CATALOG





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TWO JOINTS

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Preface

Xinxing Ductile Iron Pipes Co., Ltd. is a professional supplier of ductile iron pipes & fittings products and services. The comprehensive technical level and the production capacity of the company lead the world.

The fittings of Xinxing adopt the production technologies of V-EPC (Vacuum Evaporative Pattern Casting) and pulverized coal static pressure molding, with a full range of products from DN80 to DN2600. The company has four production bases for ductile iron fittings and accessories: Taojiang (Hunan), Wuhu (Anhui), Huangshi (Hubei), Chengdu (Sichuan), with an annual production capacity of 70 000 tons. Xinxing fittings had already been exported to more than 120 countries and regions all over the world.

Xinxing company is always committed to providing high quality products & services. We are ready to cooperate with our clients to win together a more brilliant future.

IN GENERAL

— Standards

ISO 2531、EN 545

ISO 4179、ISO 8179.2、ISO 7005、EN 14901

(Other standards according to user requirements)

— Wall thickness of fittings

The nominal wall thickness e_{nom} and the minimum wall thickness e_{min} can be calculated by the following formulas:

$$e_{nom} = K (0.5 + 0.001DN)$$

$$e_{min} = e_{nom} - (2.3 + 0.001DN)$$

The nominal wall thickness e_{nom} shouldn't be less than 7mm, The minimum wall thickness e_{min} shouldn't be less than 4.7mm.

The wall thickness of tees in this catalog is K14, The wall thickness of other fittings is K12.

DN	NOMINAL WALL THICKNESS/mm	
	K=12	K=14
80	7.0	8.1
100	7.2	8.4
150	7.8	9.1
200	8.4	9.8
250	9.0	10.5
300	9.6	11.2
350	10.2	11.9
400	10.8	12.6
450	11.4	13.3
500	12.0	14.0
600	13.2	15.4
700	14.4	16.8
800	15.6	18.2
900	16.8	19.6
1000	18.0	21.0
1100	19.2	22.4
1200	20.4	23.8
1400	22.8	26.6
1600	25.2	29.4
1800	27.6	32.2
2000	30.0	35.0
2200	32.4	37.8
2400	34.8	40.6
2600	37.2	43.4

— Length tolerance of fittings

TYPE OF FITTINGS	TOLERANCE/mm
Fittings with socket(s)	± 20
Fittings with flange(s)	± 10

— Anti-corrosion coatings

Please see the following form of anti-corrosion inside linings and outside coatings of the products:

NO.	INSIDE COATINGS	OUTSIDE COATINGS
1	Cement mortar coating	Zinc rich painting+finishing layer
		Epoxy resin coating
2	Epoxy resin coating	Zinc rich painting+finishing layer
		Epoxy resin coating
3	Epoxy powder coating	Epoxy powder coating

— Water-tightness test of fittings

Every fittings produced by Xinxing must to pass the water-tightness test before delivered from the factory. The pressure holding time is no less than 30 seconds and the test pressure is ($1.2P_{wk}+0.5$) MPa.

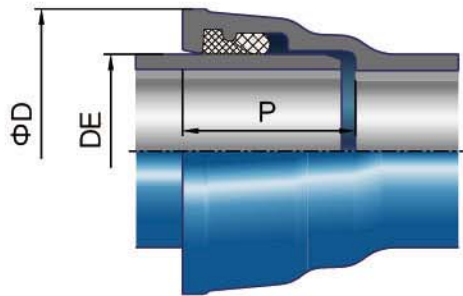
Note: P_{wk} is the operating pressure of the pipeline.

— Other Notes

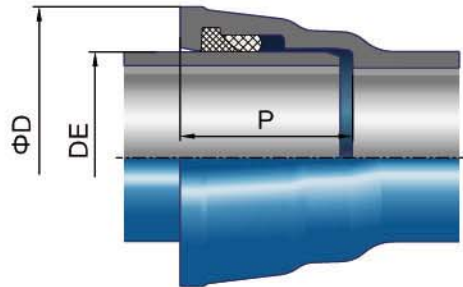
This catalog provides the size and weight of the commonly fittings, if you need the others,please contact us directly.

I、JOINTS

1、T-TYPE JOINT



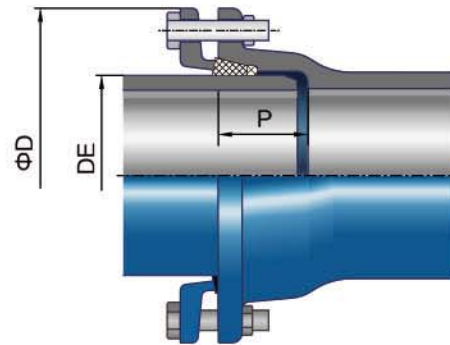
DN80~DN1200



DN1400~DN2000

DN	DE/mm	ΦD /mm	P/mm
80	98	142	85
100	118	162	88
125	144	189	91
150	170	216	94
200	222	273	100
250	274	326	105
300	326	383	110
350	378	437	110
400	429	492	110
450	480	545	120
500	532	600	120
600	635	708	130
700	738	828	150
800	842	936	160
900	945	1046	175
1000	1048	1152	185
1100	1152	1270	202
1200	1255	1378	217
1400	1462	1600	242
1500	1565	1710	253
1600	1668	1821	266
1800	1875	2043	297
2000	2082	2262	319

2、K-TYPE JOINT

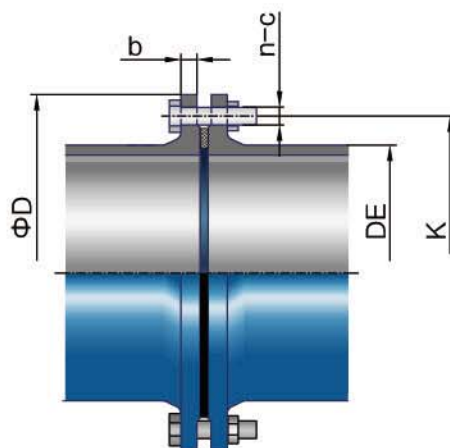


DN100~DN2600

DN	DE/mm	ΦD /mm	P/mm
100	118	234	80
150	170	288	80
200	222	341	80
250	274	395	80
300	326	455	110
350	378	508	110
400	429	561	110
450	480	614	110
500	532	667	110
600	635	773	110
700	738	892	120
800	842	999	120
900	945	1123	120
1000	1048	1231	130
1100	1152	1338	130
1200	1255	1444	130
1400	1462	1657	130
1500	1565	1766	130
1600	1668	1874	160
1800	1875	2089	170
2000	2082	2305	180
2200	2288	2519	190
2400	2495	2734	250
2600	2702	2949	260

3、FLANGE JOINT

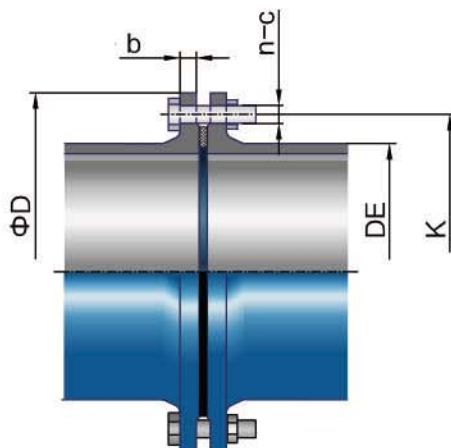
DIMENSIONS AND MASS OF PN10 FLANGE



DN	ΦD/mm	K/mm	DE/mm	b/mm	Bolt hole			Mass of flange /kg
					c/mm	DIA	n/pcs	
80	200	160	98	19.0	19	M16	8	2.7
100	220	180	118	19.0	19	M16	8	3.2
125	250	210	144	19.0	19	M16	8	3.9
150	285	240	170	19.0	23	M20	8	4.8
200	340	295	222	20.0	23	M20	8	6.6
250	400	350	274	22.0	23	M20	12	9.3
300	455	400	326	24.5	23	M20	12	12.3
350	505	460	378	24.5	23	M20	16	13.6
400	565	515	429	24.5	28	M24	16	15.9
450	615	565	480	24.5	28	M24	20	17.3
500	670	620	532	26.5	28	M24	20	21.2
600	780	725	635	30.0	31	M27	20	29.6
700	895	840	738	32.5	31	M27	24	39.7
800	1015	950	842	35.0	34	M30	24	53.8
900	1115	1050	945	37.5	34	M30	28	63.0
1000	1230	1160	1048	40.0	37	M33	28	80.0
1100	1340	1270	1152	42.5	37	M33	32	97.0
1200	1455	1380	1255	45.0	40	M36	32	119.0
1400	1675	1590	1462	46.0	43	M39	36	146.5
1500	1786	1700	1565	47.5	43	M39	36	176.0
1600	1915	1820	1668	49.0	49	M45	40	205.0
1800	2115	2020	1875	52.0	49	M45	44	235.0
2000	2325	2230	2082	55.0	49	M45	48	278.0
2200	2550	2440	2288	59.0	56	M52	52	343.7
2400	2750	2650	2495	62.0	56	M52	56	380.0
2600	2960	2850	2702	65.0	56	M52	60	437.2

3、FLANGE JOINT

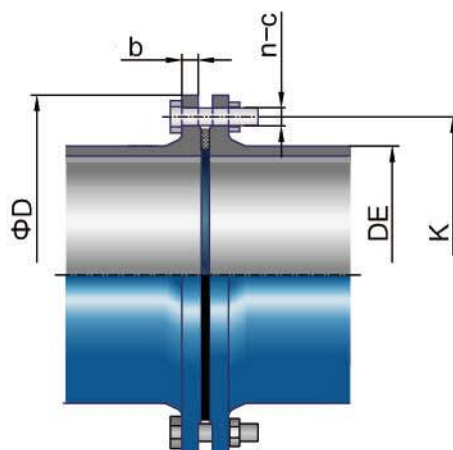
DIMENSIONS AND MASS OF PN16 FLANGE



DN	$\Phi D/\text{mm}$	K/mm	DE/mm	b/mm	Bolt hole			Mass of flange/kg
					c/mm	DIA	n/pcs	
80	200	160	98	19.0	19	M16	8	2.7
100	220	180	118	19.0	19	M16	8	3.2
125	250	210	144	19.0	19	M16	8	3.9
150	285	240	170	19.0	23	M20	8	4.8
200	340	295	222	20.0	23	M20	12	6.6
250	400	355	274	22.0	28	M24	12	8.9
300	455	410	326	24.5	28	M24	12	12.0
350	520	470	378	26.5	28	M24	16	16.4
400	580	525	429	28.0	31	M27	16	22.4
450	640	585	480	30.0	31	M27	20	26.6
500	715	650	532	31.5	34	M30	20	35.6
600	840	770	635	36.0	37	M33	20	54.6
700	910	840	738	39.5	37	M33	24	53.8
800	1025	950	842	43.0	40	M36	24	71.5
900	1125	1050	945	46.5	40	M36	28	84.6
1000	1255	1170	1048	50.0	43	M39	28	117.7
1100	1355	1270	1152	53.5	43	M39	32	135.4
1200	1485	1390	1255	57.0	49	M45	32	177.3
1400	1685	1590	1462	60.0	49	M45	36	207.3
1500	1820	1710	1565	62.5	56	M52	36	252.0
1600	1930	1820	1668	65.0	56	M52	40	297.3
1800	2130	2020	1875	70.0	56	M52	44	348.1
2000	2345	2230	2082	75.0	62	M56	48	415.0
2200	2555	2440	2288	81.0	62	M56	52	501.0
2400	2765	2650	2495	86.0	62	M56	56	587.0
2600	2965	2850	2702	91.0	62	M56	60	654.6

3、FLANGE JOINT

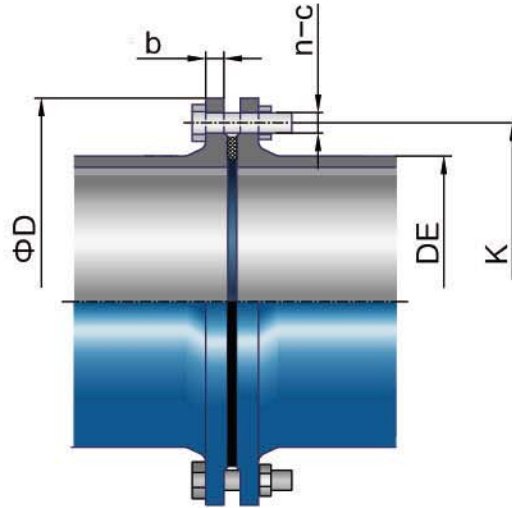
DIMENSIONS AND MASS OF PN25 FLANGE



DN	Φ D/mm	K/mm	DE/mm	b/mm	Bolt hole			Mass of flange/kg
					c/mm	DIA	n/pcs	
80	200	160	98	19.0	19	M16	8	2.7
100	235	190	118	19.0	23	M20	8	3.7
125	270	220	144	19.0	28	M24	8	4.5
150	300	250	170	20.0	28	M24	8	5.7
200	360	310	222	22.0	28	M24	12	8.4
250	425	370	274	24.5	31	M27	12	12.6
300	485	430	326	27.5	31	M27	16	17.2
350	555	490	378	30.0	34	M30	16	24.3
400	620	550	429	32.0	37	M33	16	31.6
450	670	600	480	34.5	37	M33	20	37.0
500	730	660	532	36.5	37	M33	20	46.0
600	845	770	635	42.0	40	M36	20	67.0
700	960	875	738	46.5	43	M39	24	86.3
800	1085	990	842	51.0	49	M45	24	117.5
900	1185	1090	945	55.5	49	M45	28	140.6
1000	1320	1210	1048	60.0	56	M52	28	190.3
1100	1420	1310	1152	64.5	56	M52	32	219.4
1200	1530	1420	1255	69.0	56	M52	32	268.0
1400	1755	1640	1462	74.0	62	M56	36	347.0
1600	1975	1860	1668	81.0	62	M56	40	402.0
1800	2195	2070	1875	88.0	70	M64	44	457.5
2000	2425	2300	2082	95.0	70	M64	48	565.0

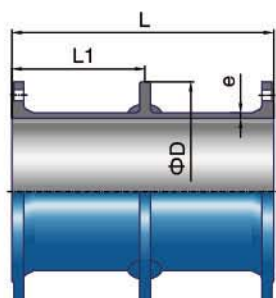
3、FLANGE JOINT

DIMENSIONS AND MASS OF BS10-E FLANGE

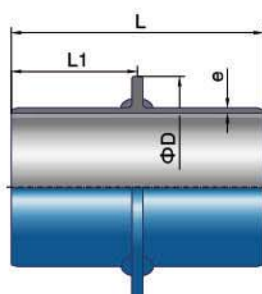


DN	$\Phi D/mm$	K/mm	DE/mm	b/mm	Bolt hole			Mass of flange/kg
					c/mm	DIA	n/pcs	
80	200	147.0	98	19.0	17.5	M16	8	2.1
100	220	177.8	118	19.0	17.5	M16	8	2.3
150	285	235.0	170	19.0	23.0	M20	8	2.7
200	340	292.1	222	20.0	23.0	M20	8	3.2
250	400	355.6	274	22.0	23.0	M20	12	4.8
300	455	406.4	326	24.5	27.0	M20	12	6.5
400	580	520.7	429	28.0	27.0	M24	16	9.3
450	640	584.2	480	30.0	27.0	M24	20	12.3
500	715	641.4	532	31.5	27.0	M24	20	15.9
600	840	755.7	635	36.0	33.0	M27	20	17.3

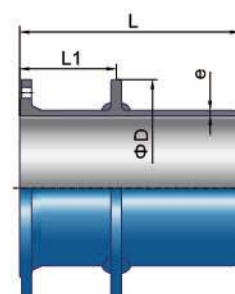
1、FITTINGS WITH PUDDLE FLANGE



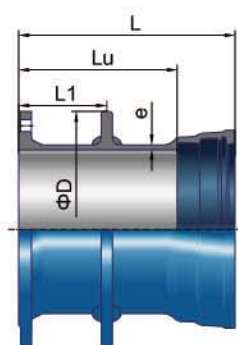
Double flanged pipe
with puddle flange



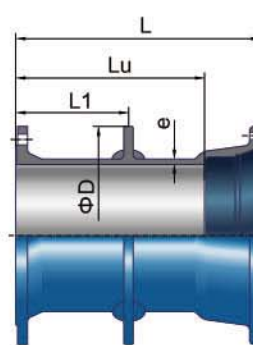
Double spigot pipe
with puddle flange



Flanged spigot with
puddle flange



Socket of T type-flanged pipe
with puddle flange

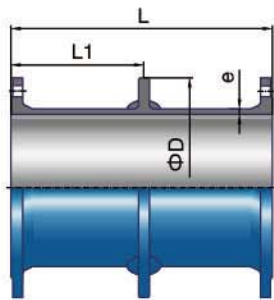


Socket of K type-flanged pipe
with puddle flange

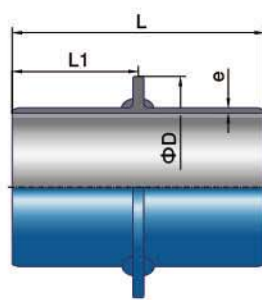
DN	WEIGHT OF PIPE BODY		WEIGHT OF FLANGE/kg											
	k12		INTEGRAL FLANGE				WELDED FLANGE				WEIGHT OF PUDDLE FLANGE			
	e/mm	kg/m	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
80	7.0	14.1	3.5	3.5	3.5	3.5	4.3	4.3	4.3	4.3	3.1	3.1	3.1	3.1
100	7.2	17.7	4.0	4	4.5	4.5	5.3	5.3	5.9	5.9	3.5	3.5	4.2	4.2
150	7.8	28.0	6.1	6.1	7.1	9.2	9.3	9.3	8.7	10.4	5.3	5.3	6.5	8.7
200	8.4	39.7	8.5	8.3	10.4	15.7	10.7	10.7	13.4	18.2	7.0	7.0	9.4	15.1
250	9.0	52.8	11.8	11.4	15.3	25.4	14.5	13.9	18.6	—	10.0	10.0	13.9	—
300	9.6	67.3	15.6	15.2	20.8	36.3	18.7	18.8	26.5	—	12.8	12.8	18.5	—
350	10.2	83.1	17.6	20.7	29.0	—	23.1	26.2	35.4	—	14.3	17.7	26.2	—
400	10.8	100.0	20.5	26.1	37.4	—	28.1	33.0	48.8	—	17.2	22.5	34.2	—
450	11.4	118.3	17.3	26.6	37.0	—	30.3	43.0	54.5	—	19.7	28.6	40.6	—
500	12.0	138.2	27.6	42.8	54.5	—	37.2	57.6	69.7	—	23.1	38.3	49.3	—
600	13.2	181.8	38.4	64.9	79.1	—	47.3	87.0	96.2	—	31.5	56.9	69.6	—

Note: the length L_u of the fittings with puddle flange and the length L_1 of the puddle flange apart from the flange should be determined by the actual working condition.

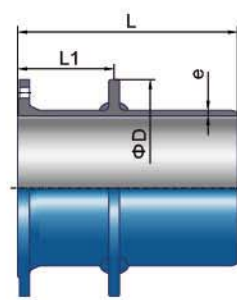
1、FITTINGS WITH PUDDLE FLANGE



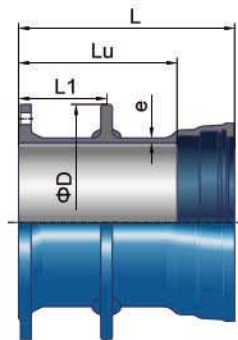
Double flanged pipe
with puddle flange



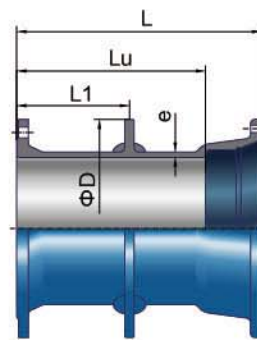
Double spigot pipe
with puddle flange



Flanged spigot with
puddle flange



Socket of T type-flanged pipe
with puddle flange

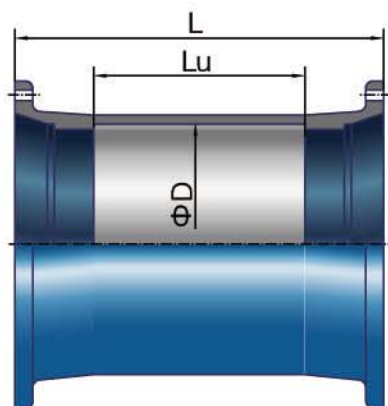


Socket of K type-flanged pipe
with puddle flange

DN	WEIGHT OF PIPE BODY		WEIGHT OF FLANGE/kg											
	k12		INTEGRAL FLANGE				WELDED FLANGE				WEIGHT OF PUDDLE FLANGE			
	e/mm	kg/m	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
700	14.4	230.8	50.2	65.3	—	—	66.9	72.7	117.6	—	43.0	59.3	94.4	—
800	15.6	285.5	66.7	85.9	—	—	88.0	93.4	151.3	—	58.6	78.6	129.7	—
900	16.8	345.4	78.7	102.6	—	—	98.2	105.8	177.2	—	69.1	93.5	155.4	—
1000	18.0	410.6	98.6	140.1	—	—	135.3	163.2	246.2	—	90.6	132.7	216.9	—
1100	19.2	482.0	97.0	135.4	—	—	162.6	194.1	289.0	—	109.3	152.6	251.0	—
1200	20.4	557.8	144.2	208.5	—	—	192.2	238.8	336.9	—	135.0	202.4	300.6	—
1400	22.8	726.8	178.2	246.3	—	—	240.0	277.7	447.7	—	170.0	238.5	398.0	—
1500	24.0	819.0	176.0	252.0	—	—	301.8	396.0	536.5	—	194.0	305.2	456.2	—
1600	25.2	916.9	244.7	346.7	—	—	349.7	409.0	610.1	—	240.4	347.7	519.7	—
1800	27.6	1129.3	283.5	409.4	—	—	391.4	510.9	722.9	—	278.2	408.4	660.3	—
2000	30.0	1363.4	336.4	489.2	—	—	480.7	562.9	1005.3	—	331.8	502.4	850.6	—

Note: the length L_u of the fittings with puddle flange and the length L_1 of the puddle flange apart from the flange should be determined by the actual working condition.

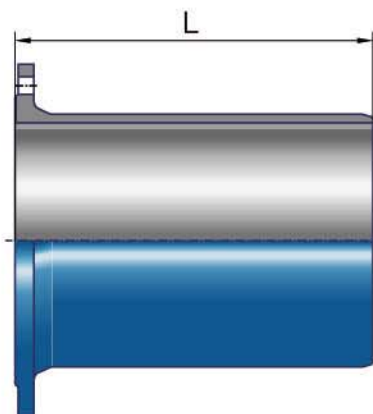
2、K-TYPE COLLARS



K=12

DN	$\Phi D/\text{mm}$	L_u/mm	L/mm	MASS/kg
100	130	160	330	14.71
150	183	165	350	21.56
200	235	170	370	29.0
250	288	175	385	37.7
300	340	180	400	57.3
350	393	185	405	70.2
400	445	190	410	82.6
450	498	195	415	98.4
500	550	200	440	114.1
600	655	210	450	150.1
700	760	220	500	200.1
800	865	230	510	248.0
900	970	240	520	316.6
1000	1075	250	530	398.9
1100	1180	260	520	494.9
1200	1285	270	570	557.1
1400	1477	340	660	786.1
1600	1683	360	740	1090.8
1800	1889	380	760	1423.2
2000	2095	400	800	1814.5
2200	2301	420	800	2268.6
2400	2507	440	940	3075.4
2600	2713	460	980	3630.3

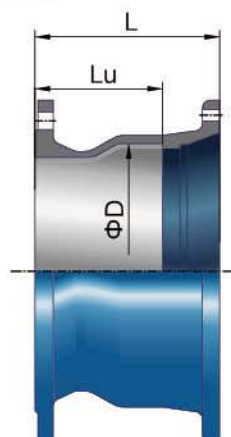
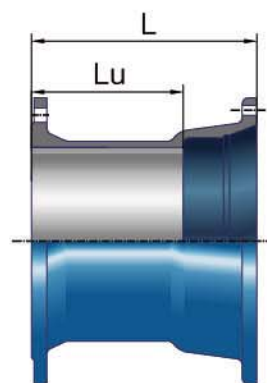
3、FLANGED SPIGOTS



K=12

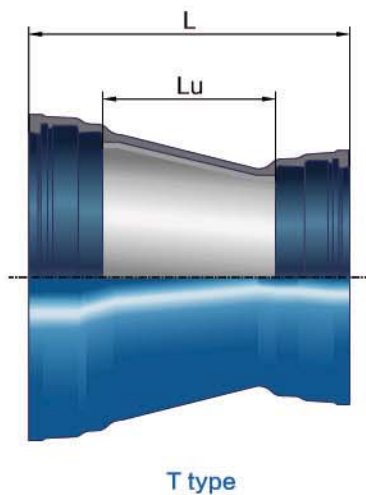
DN	L/mm	MASS/kg		
		PN10	PN16	PN25
80	350	7.8	7.8	7.8
100	360	9.6	9.6	10.2
150	380	15.6	15.6	16.6
200	400	22.5	22.5	24.5
250	420	32.0	31.5	35.5
300	440	43.0	42.5	47.5
350	460	52.0	55.0	64.0
400	480	64.0	70.4	81.0
450	500	79.0	88.0	103.0
500	520	94.0	109.0	121.0
600	560	133.0	159.0	173.0
700	600	179.0	197.0	228.0
800	600	226.0	245.0	294.0
900	600	272.0	295.0	356.0
1000	600	328.0	369.0	447.0
1100	600	386.0	424.4	508.4
1200	600	456.0	520.0	620.0
1400	710	664.0	732.0	884.0
1600	780	922.0	1024.0	1173.0
1800	850	1196.0	1322.0	1562.0
2000	920	1534.0	1687.0	2040.0
2200	990	1948.0	2115.0	—
2400	1060	2409.0	2611.0	—
2600	1130	2918.0	3153.0	—

4、FLANGED SOCKETS


K=12
DN ≤ 600

DN ≥ 700

DN	Φ D/mm	Lu/mm	L/mm	MASS/kg		
				PN10	PN16	PN25
100	130	130	210	11.4	11.4	12.4
150	183	135	215	16.7	16.7	17.6
200	235	140	220	22.7	22.7	24.5
250	288	145	225	30.7	30.3	34.0
300	340	150	260	45.4	45.1	50.3
350	393	155	265	52.9	55.7	63.6
400	445	160	270	62.2	68.7	77.9
450	498	165	275	72.8	82.1	92.5
500	550	170	280	85.7	100.1	110.5
600	655	180	290	114.6	139.6	152.0
700	—	190	310	161.0	175.0	211.0
800	—	200	320	206.0	225.0	274.0
900	—	210	330	243.5	265.1	321.1
1000	—	220	350	307.3	345.0	417.6
1100	—	230	360	367.8	406.2	490.2
1200	—	240	370	456.0	521.0	664.0
1400	—	310	440	613.3	674.1	813.8
1600	—	330	490	897.0	999.0	1176.0
1800	—	350	520	1137.0	1263.0	1503.0
2000	—	370	550	1428.0	1581.0	1933.0
2200	—	390	580	1783.0	1950.0	—
2400	—	410	660	2140.0	2465.0	—
2600	—	480	740	2679.0	3045.0	—

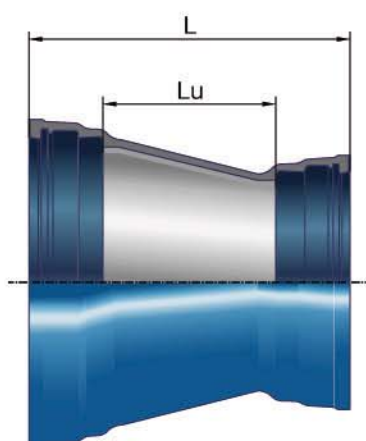
5、DOUBLE SOCKET TAPERS



K=12

DN	dn	Lu/mm	L/mm	MASS /kg
100	80	90	263	8.5
150	80	190	369	13.5
	100	150	332	13.8
200	100	250	438	20.5
	150	150	344	21.0
250	150	250	449	29.0
	200	150	355	29.0
300	150	350	554	39.5
	200	250	460	39.5
	250	150	365	38.5
350	200	360	570	52.0
	250	260	475	51.0
	300	160	380	49.5
400	200	460	670	67.0
	250	360	575	66.0
	300	260	480	64.0
	350	160	380	62.0
450	250	460	685	88.9
	300	360	590	88.1
	350	260	490	86.0
	400	160	390	83.1
500	300	460	690	100.0
	350	360	590	98.0
	400	260	490	94.0
	450	160	400	99.5
600	350	560	800	151.0
	400	460	700	142.0
	450	360	610	149.0
	500	260	510	131.0

5、DOUBLE SOCKET TAPERS



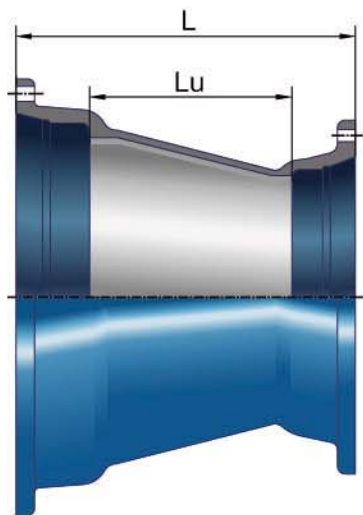
T type

K=12

DN	dn	Lu/mm	L/mm	MASS /kg
700	400	680	940	206.7
	450	580	850	199.6
	500	480	750	194.0
	600	280	560	178.0
800	450	780	1060	277.7
	500	680	960	272.2
	600	480	770	252.0
	700	280	590	229.0
900	500	880	1175	366.8
	600	680	985	349.4
	700	480	805	337.4
	800	280	615	312.7
1000	600	880	1195	476.0
	700	680	1015	446.3
	800	480	825	392.0
	900	280	640	354.0
1100	600	1080	1412	588.5
	700	880	1232	576.5
	800	680	1042	552.0
	900	480	857	521.0
	1000	280	667	479.2
1200	700	1080	1447	729.6
	800	880	1257	710.7
	900	680	1072	674.3
	1000	480	882	632.6
1400	800	760	1162	859.5
	900	660	1077	862.8
	1000	560	987	861.6
	1200	360	819	862.2
1600	1000	760	1211	1211.0
	1200	560	1043	1212.0
	1400	360	868	1244.0
1800	1200	760	1274	1549.0
	1400	560	1099	1581.0
	1600	360	923	1605.0
2000	1200	960	1496	2072.9
	1400	760	1321	2057.4
	1600	560	1145	2058.8
	1800	360	976	2130.1

5、DOUBLE SOCKET TAPERS

K=12

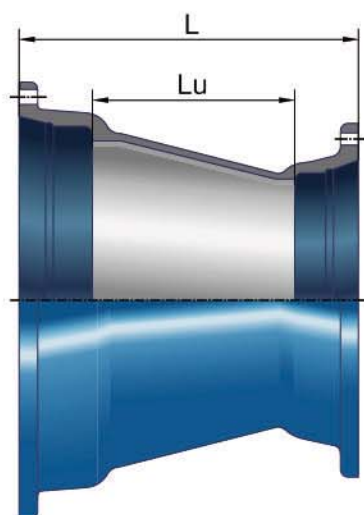


K type

DN	dn	Lu/mm	L/mm	MASS/kg
150	100	150	310	18.7
200	100	250	410	25.2
	150	150	310	26.0
250	150	250	410	33.2
	200	150	310	33.0
300	150	350	540	46.9
	200	250	440	46.8
	250	150	340	45.7
350	200	360	550	60.1
	250	260	450	74.3
	300	160	380	64.9
400	200	460	650	78.3
	250	360	550	77.2
	300	260	480	80.1
450	350	160	380	78.0
	250	460	650	94.2
	300	360	580	97.1
	350	260	480	95.0
500	400	160	380	92.0
	300	460	680	116.0
	350	360	580	115.0
	400	260	480	111.0
600	450	160	380	106.0
	350	560	780	159.0
	400	460	680	156.0
	450	360	580	151.0
700	500	260	480	145.0
	400	680	910	208.5
	450	580	810	204.1
	500	480	710	204.0
800	600	280	510	187.0
	450	780	1010	273.5
	500	680	910	266.6
	600	480	710	257.0
900	700	280	520	236.0
	500	880	1110	355.4
	600	680	910	336.7
	700	480	720	327.0
	800	280	520	294.0

5、DOUBLE SOCKET TAPERS

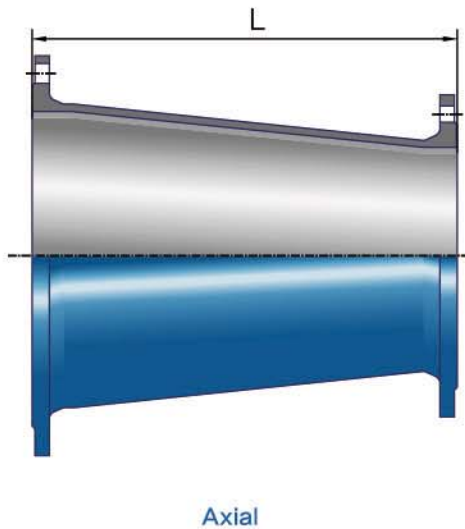
K=12



K type

DN	dn	Lu/mm	L/mm	MASS/kg
1000	600	880	1120	445.0
	700	680	930	420.8
	800	480	730	403.0
	900	280	530	368.0
1100	600	1080	1320	558.4
	700	880	1130	535.6
	800	680	930	502.4
	900	480	730	465.6
	1000	280	540	421.8
1200	700	1080	1330	669.1
	800	880	1130	636.0
	900	680	930	599.3
	1000	480	740	555.6
1400	800	760	1010	700.2
	900	660	910	697.7
	1000	560	820	694.5
	1200	360	620	660.1
1600	1000	760	1050	974.1
	1200	560	850	940.9
	1400	360	650	936.0
1800	1200	760	1060	1269.0
	1400	560	860	1210.0
	1600	360	690	1235.0
2000	1200	960	1270	1663.0
	1400	760	1070	1605.0
	1600	560	900	1560.0
	1800	360	710	1566.0
2200	1000	1360	1680	2243.0
	1200	1160	1480	2325.0
	1400	960	1280	2288.0
	1600	760	1110	2266.0
	1800	560	920	2211.0
	2000	360	730	2134.0
2400	1000	1460	1840	2780.0
	1200	1360	1740	2865.0
	1400	1160	1540	2946.0
	1600	960	1370	2892.0
	1800	760	1180	2872.0
	2000	560	990	2797.0
	2200	360	800	2374.0
2600	1000	1560	1950	3177.0
	1200	1460	1850	3259.0
	1400	1360	1750	3328.0
	1600	1160	1580	3285.0
	1800	960	1390	3208.0
	2000	760	1200	3109.0
	2200	560	1010	2971.0
	2400	360	870	2877.0

6、DOUBLE FLANGED TAPERS

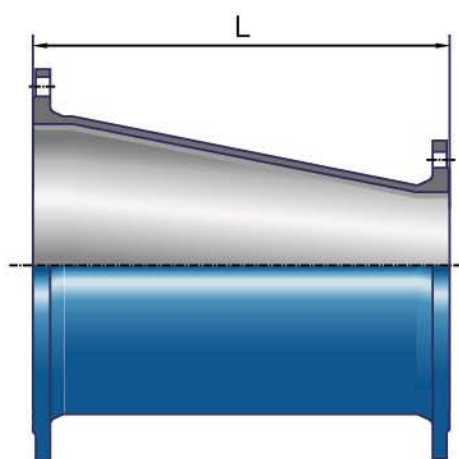


K=12

DN	dn	L/mm	MASS/kg		
			PN10	PN16	PN25
100	80	200	9.3	9.3	9.8
150	80	300	16.4	16.4	16.0
	100	280	16.0	16.0	17.5
200	100	600	26.7	26.7	29.1
	150	300	22.0	21.5	25.0
250	150	600	38.1	37.7	42.3
	200	300	30.0	29.5	35.5
300	150	650	47.4	47.1	53.2
	200	600	50.7	50.5	57.5
	250	300	40.5	39.5	49.0
350	200	650	59.4	62.3	72.0
	250	600	63.4	65.8	77.4
	300	300	49.5	52.0	66.0
400	200	700	69.5	76.0	87.0
	250	650	74.2	80.4	93.2
	300	600	78.1	84.3	98.7
	350	300	58.0	67.0	86.0
450	250	700	85.2	94.2	108.2
	300	650	89.3	98.3	113.9
	350	600	91.1	103.2	121.5
	400	300	72.4	86.6	113.0
500	300	700	104.2	118.3	133.9
	350	650	106.1	123.3	141.6
	400	600	110.0	130.0	153.0
	450	300	76.9	100.6	121.4
600	350	750	140.4	168.2	188.5
	400	700	142.9	174.4	196.0
	450	650	143.8	178.1	200.9
	500	600	149.0	190.0	216.0
700	400	800	183.5	204.1	245.8
	450	750	184.7	208.1	251.0
	500	700	187.7	216.2	259.1
	600	600	195.0	236.0	288.0

6、DOUBLE FLANGED TAPERS

K=12

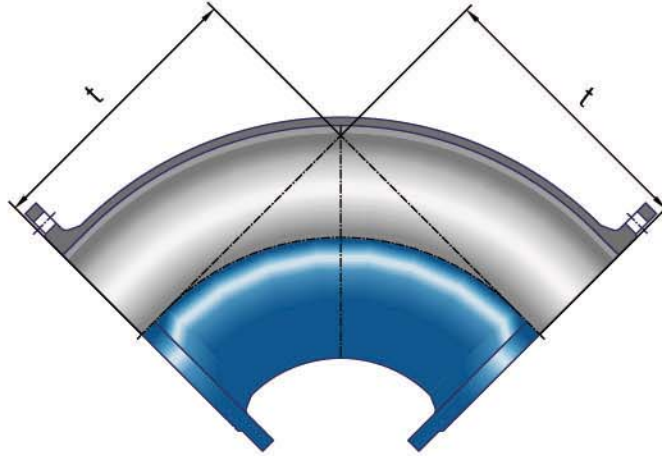


Eccentric

DN	dn	L/mm	MASS/kg		
			PN10	PN16	PN25
800	450	900	247.8	274.8	331.2
	500	800	241.2	273.3	329.7
	600	700	245.7	288.4	346.8
	700	600	250.0	285.0	374.0
900	500	1000	318.8	354.8	421.2
	600	800	300.2	346.8	415.2
	700	700	301.9	337.6	426.1
	800	600	308.0	352.0	468.0
1000	600	1000	398.6	461.3	546.3
	700	800	371.6	423.4	528.5
	800	700	376.2	431.6	550.2
	900	600	373.0	438.0	585.0
1100	600	1100	479.1	542.5	638.9
	700	1000	483.9	536.4	652.9
	800	800	454.4	510.5	640.5
	900	700	448.1	508.1	648.1
	1000	600	444.4	520.5	677.1
1200	700	1100	578.0	650.4	773.6
	800	1000	587.2	663.2	799.9
	900	800	539.9	619.8	766.5
	1000	700	536.7	632.7	796.0
	1100	600	527.6	624.3	799.0
1400	800	950	665.7	744.2	929.9
	900	1100	786.5	868.9	1065.0
	1000	1000	788.0	886.5	1099.0
	1100	800	723.6	822.8	1047.0
	1200	850	814.0	947.0	1064.0
1600	1000	1650	1354.0	1484.0	1717.0
	1100	1465	1310.0	1441.0	1689.0
	1200	1000	1055.0	1205.0	1456.0
	1400	910	1103.0	1273.0	1551.0
1800	1200	1710	1747.0	1899.0	2199.0
	1400	1340	1588.0	1760.0	2067.0
	1500	1550	1886.0	2060.0	2416.0
	1600	970	1436.0	1664.0	2135.0
2000	1200	2140	2369.0	2545.0	2951.0
	1400	1770	2218.0	2414.0	2826.0
	1500	1585	2137.0	2335.0	2796.0
	1600	1400	2070.0	2299.0	2324.0
	1800	1030	1800.0	2079.0	2715.0

III、BENDS

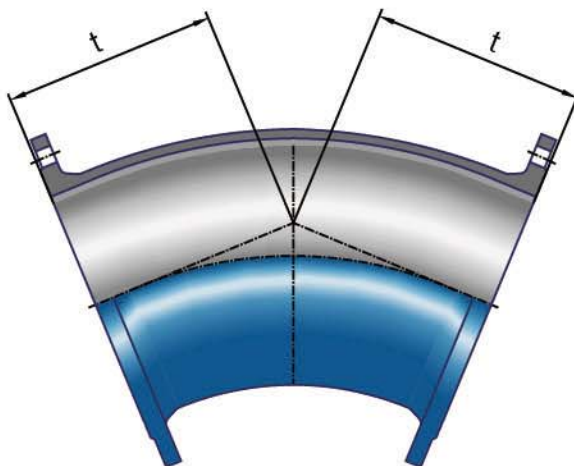
1、90° DOUBLE FLANGED BEND



K=12

DN	t/mm	MASS/kg		
		PN10	PN16	PN25
80	165	9.6	9.6	9.6
100	180	11.9	11.9	12.9
150	220	20.0	20.0	22.0
200	260	31.0	30.5	34.5
250	350	50.0	49.5	57.0
300	400	70.0	70.0	81.0
350	450	90.0	96.0	113.0
400	500	116.0	127.0	149.0
450	550	143.0	161.0	181.8
500	600	181.0	211.0	235.0
600	700	272.0	325.0	353.0
700	800	399.0	429.0	473.6
800	900	552.0	590.0	653.0
900	1000	722.0	770.0	840.8
1000	1100	937.0	1020.0	1163.0
1100	1200	1154.8	1231.6	1399.6
1200	1300	1490.0	1619.0	1728.0
1400	1470	2199.0	2335.0	2640.0

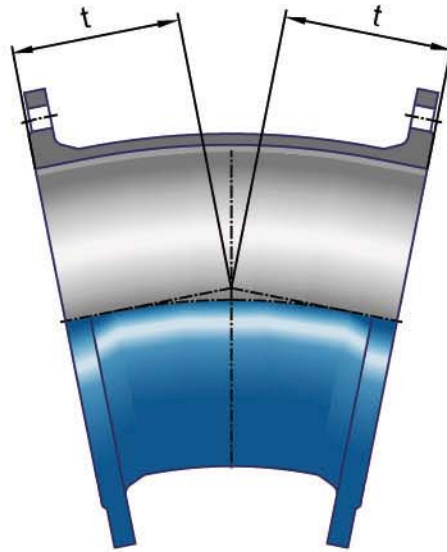
2、45° DOUBLE FLANGED BEND



K=12

DN	t/mm	MASS/kg		
		PN10	PN16	PN25
80	130	9.3	9.3	9.3
100	140	11.3	11.3	12.4
150	160	18.6	18.6	21.0
200	180	27.5	27.0	31.5
250	350	55.0	54.0	62.0
300	400	78.0	77.0	88.0
350	300	76.0	83.0	97.2
400	325	96.0	107.0	129.0
450	350	116.0	133.8	158.0
500	375	145.0	175.0	198.0
600	425	212.0	266.0	294.0
700	480	296.0	326.0	387.6
800	530	403.0	442.0	528.0
900	580	519.0	567.0	668.7
1000	630	668.0	751.0	880.6
1100	695	841.2	918.0	1137.0
1200	750	1050.0	1178.0	1345.0
1400	775	1388.0	1524.0	1852.0
1600	845	1915.0	2119.0	2416.0
1800	910	2465.0	2717.0	3125.0
2000	920	3149.0	3455.0	3907.0
2200	930	3446.0	3804.0	—
2400	945	4277.0	4719.0	—
2600	1005	5175.0	5695.0	—

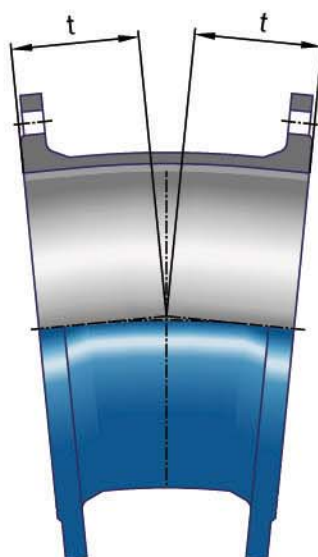
3、22.5° DOUBLE FLANGED BEND



K=12

DN	t/mm	MASS/kg		
		PN10	PN16	PN25
80	80	9.2	9.2	9.2
100	85	11.5	11.5	12.6
150	100	18.6	18.6	20.8
200	110	27.0	27.0	31.0
250	125	37.9	37.1	46.0
300	140	51.0	50.3	63.0
350	155	61.1	67.9	87.2
400	165	74.8	90.7	113.1
450	180	87.3	110.0	135.4
500	190	107.8	142.9	168.3
600	220	154.7	215.7	246.0
700	300	216.5	250.9	330.2
800	330	294.9	330.3	422.3
900	360	373.0	416.2	528.2
1000	390	477.2	552.6	697.8
1100	420	595.9	672.7	840.7
1200	450	736.6	853.2	1035.0
1400	460	1021.0	1157.0	1388.0
1600	470	1284.0	1468.0	1789.0
1800	480	1640.0	1864.0	2229.0
2000	520	2081.0	2357.0	2914.0
2200	550	2593.0	2908.0	—
2400	580	2995.0	3409.0	—
2600	600	3548.0	3983.0	—

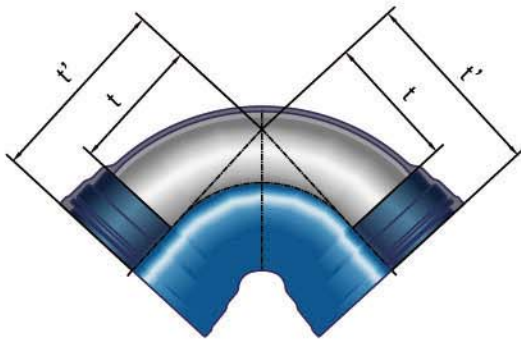
4、11.25° DOUBLE FLANGED BEND



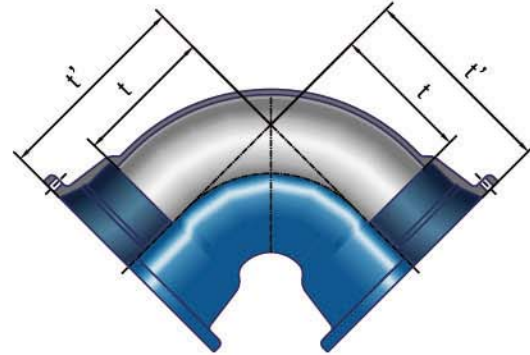
K=12

DN	t/mm	MASS/kg		
		PN10	PN16	PN25
80	70	9.2	9.2	9.2
100	75	11.5	11.5	12.5
150	85	17.2	17.2	19.5
200	90	24.3	24.4	28.8
250	100	34.7	33.8	42.8
300	110	46.4	45.7	58.4
350	120	54.9	61.8	81.0
400	130	66.8	82.7	105.1
450	135	76.6	99.3	124.7
500	140	93.6	128.7	154.1
600	160	134.7	195.7	225.9
700	205	206.6	241.0	320.3
800	230	270.0	308.0	367.3
900	245	303.0	351.0	450.2
1000	265	382.0	465.0	607.0
1100	320	502.0	592.0	826.0
1200	360	639.2	755.8	937.2
1400	380	873.8	995.4	1275.0
1600	400	1203.0	1382.0	1664.0
1800	410	1415.0	1641.0	2075.0
2000	415	1711.0	1985.0	2629.0
2200	420	2075.0	2390.0	—
2400	450	2502.0	2916.0	—
2600	480	3028.0	3463.0	—

5、90° DOUBLE SOCKET BEND



T type

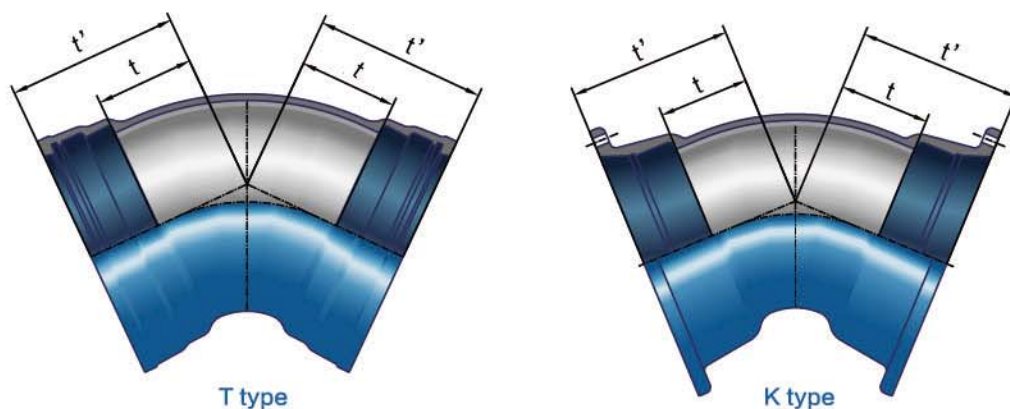


K type

K=12

DN	t/mm	T type		K type	
		t' /mm	MASS/kg	t' /mm	MASS/kg
80	100	185	8.6	—	—
100	120	208	11.4	200	16.2
150	170	264	20.5	250	25.5
200	220	320	33.0	300	37.4
250	270	375	48.5	350	51.3
300	320	430	68.0	430	80.5
350	370	480	98.4	480	109.0
400	420	530	129.0	530	139.0
450	470	590	163.0	580	172.0
500	520	640	204.0	630	210.0
600	620	750	303.0	730	300.0
700	720	870	436.0	840	428.0
800	820	980	595.0	940	572.0
900	920	1095	793.0	1040	778.0
1000	1020	1205	1045.0	1150	986.0
1100	1120	1524	1358.0	1380	1176.0
1200	1220	1440	1663.0	1350	1624.0
1400	1220	1465	2419.0	1350	2419.0
1600	1290	1560	3444.0	1450	3014.0
1800	1320	1620	4283.0	1490	3833.0

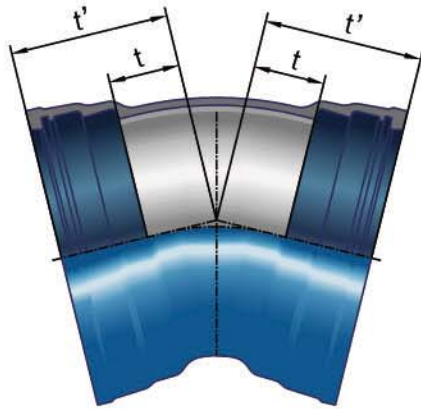
6、45° DOUBLE SOCKET BEND



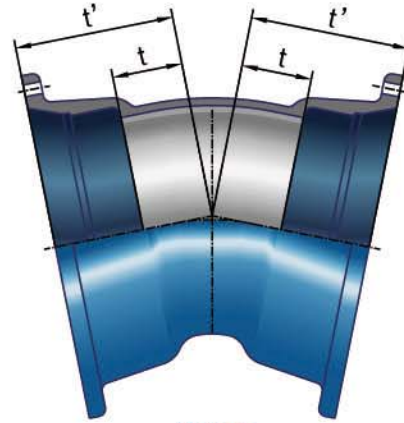
K=12

DN	t/mm	T type		K type	
		t' /mm	MASS /kg	t' /mm	MASS /kg
80	50	135	7.7	—	—
100	65	153	10.1	145	14.9
150	85	180	17.4	165	22.5
200	110	210	27.0	190	31.4
250	130	235	38.5	210	41.3
300	150	260	53.0	260	65.3
350	175	285	70.0	285	80.5
400	195	305	89.0	305	99.4
450	220	340	123.0	330	132.0
500	240	360	139.0	350	145.4
600	285	415	202.0	395	198.0
700	330	480	282.0	450	302.0
800	370	530	378.0	490	395.0
900	415	590	496.0	535	539.0
1000	460	645	635.0	590	734.0
1100	505	909	842.5	765	769.7
1200	550	770	986.0	680	937.0
1400	515	760	1509.0	645	1273.0
1600	565	830	2117.0	725	1740.0
1800	610	910	2615.0	780	2296.0
2000	660	—	—	840	2970.0
2200	710	—	—	900	3762.0
2400	755	—	—	1010	4854.0
2600	805	—	—	1065	5943.0

7、22.5° DOUBLE SOCKET BEND



T type

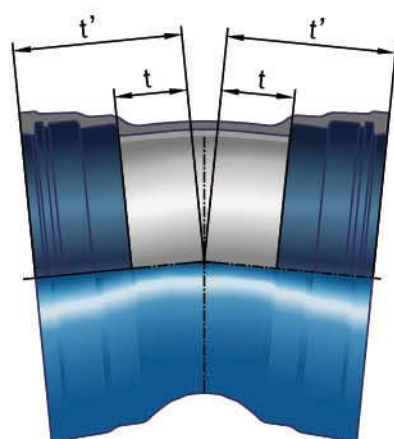


K type

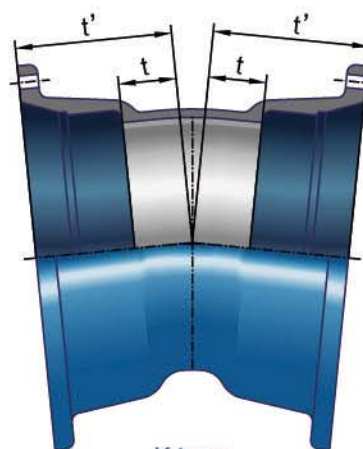
K=12

DN	t/mm	T type		K type	
		t' /mm	MASS/kg	t' /mm	MASS/kg
80	40	125	7.3	—	—
100	40	130	9.3	120	14.1
150	55	150	15.9	135	21.0
200	65	165	24.0	145	28.4
250	75	180	33.5	155	36.3
300	85	195	44.5	195	55.5
350	95	205	58.0	205	68.2
400	110	220	74.0	220	84.4
450	120	240	93.0	230	110.0
500	130	250	111.0	240	117.6
600	150	280	157.0	260	154.0
700	175	325	248.0	295	240.0
800	195	355	331.0	315	308.0
900	220	395	432.0	340	417.0
1000	240	425	550.0	370	469.0
1100	260	664	710.0	520	568.0
1200	285	505	851.0	415	689.0
1400	260	505	1241.0	390	857.0
1600	280	550	1628.0	440	1198.0
1800	305	605	2037.0	475	1588.0
2000	330	—	—	510	2144.0
2200	355	—	—	545	2707.0
2400	380	—	—	630	3548.0
2600	400	—	—	660	4309.0

8、11.25° DOUBLE SOCKET BEND



T type



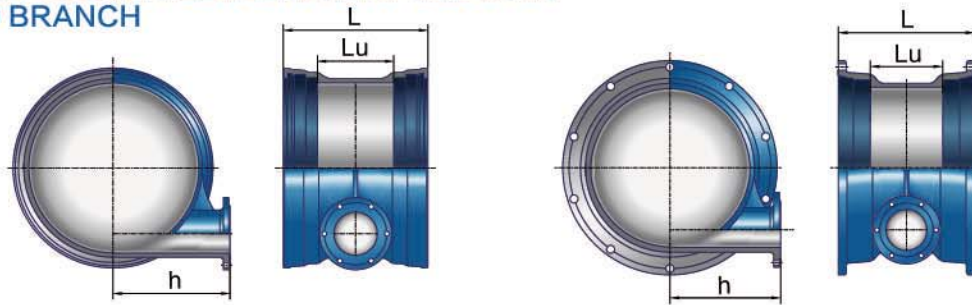
K type

K=12

DN	t/mm	T type	MASS/kg	K type	MASS/kg
		t' /mm		t' /mm	
80	30	115	7.1	—	—
100	30	120	8.9	110	12.3
150	35	130	14.8	115	18.2
200	40	140	22.0	120	24.2
250	50	155	30.5	130	32.7
300	55	165	40.5	165	53.4
350	60	170	52.0	170	62.6
400	65	175	65.0	175	73.6
450	70	190	70.5	180	88.5
500	75	195	96.0	185	102.7
600	85	215	134.0	195	135.4
700	95	245	216.0	215	180.8
800	110	270	286.0	230	231.3
900	120	295	374.0	240	298.7
1000	130	315	473.0	260	380.5
1100	140	544	600.0	400	455.0
1200	150	370	724.0	280	541.0
1400	130	375	1047.0	260	672.0
1600	140	405	1376.0	300	1007.0
1800	155	450	1704.0	325	1331.0
2000	165	485	2283.2	345	1702.0
2200	190	—	—	380	2183.0
2400	205	—	—	455	2898.0
2600	215	—	—	475	3512.0

IV、TEES

1、DOUBLE-SOCKET LEVEL INVERT TEE WITH FLANGED BRANCH



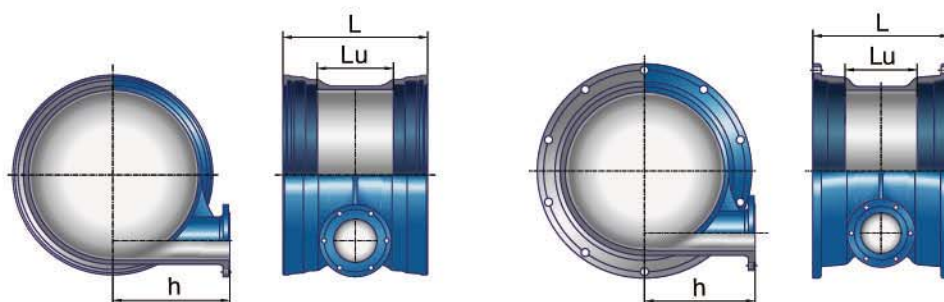
K=14

T type

K type

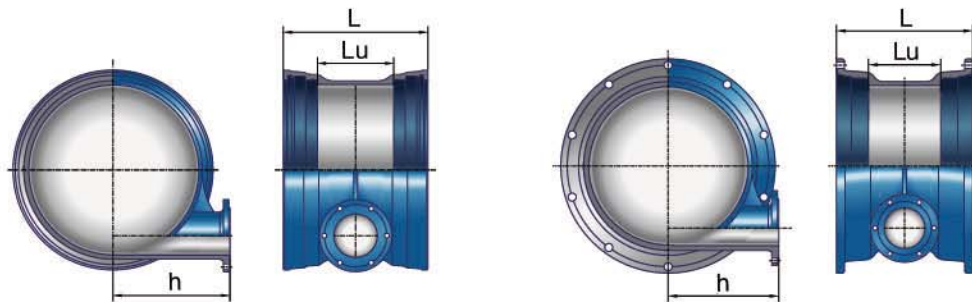
DN	dn	L/mm		Lu/mm	h/mm	MASS/kg					
		T type	K type			T type			K type		
						PN10	PN16	PN25	PN10	PN16	PN25
100	80	346	330	170	175	15.8	15.8	15.8	20.0	20.0	20.0
150	80	358	330	170	205	23.0	23.0	23.0	28.0	28.0	28.0
	100	383	355	195	210	24.5	24.5	25.0	29.5	29.5	29.5
200	80	375	335	175	235	31.5	31.5	31.5	36.0	36.0	36.0
	100	400	360	200	240	33.5	33.5	34.0	38.0	38.0	38.0
	150	455	415	255	250	39.0	39.0	40.0	43.4	43.4	43.4
250	80	390	340	180	265	42.2	42.2	42.2	43.6	43.6	43.6
	100	410	360	200	270	43.5	43.5	44.0	46.0	46.0	46.5
	150	470	420	260	280	51.3	51.3	52.2	52.7	52.7	53.6
	200	525	475	315	290	57.0	57.0	59.0	60.0	60.0	62.0
300	80	400	400	180	295	60.8	60.8	60.8	65.4	65.4	65.4
	100	425	425	205	300	64.2	64.2	64.2	68.8	68.8	69.3
	125	450	450	230	300	67.0	67.0	67.6	71.6	71.6	72.2
	150	480	480	260	310	71.2	71.2	72.1	75.8	75.8	76.7
	200	540	540	320	320	77.9	77.9	79.7	82.5	82.5	84.3
	250	600	600	380	330	87.8	87.4	91.1	92.4	92.0	95.7
350	80	405	405	185	325	63.6	63.6	63.6	76.0	76.0	76.0
	100	425	425	205	330	68.0	68.0	68.0	78.4	78.4	78.9
	150	490	490	270	340	82.3	81.3	82.3	93.0	93.0	93.0
	200	545	545	325	350	86.0	86.0	88.0	96.0	96.0	98.0
	250	605	605	385	360	93.2	92.9	96.5	105.6	105.3	108.9
	300	640	640	420	370	105.0	104.7	109.9	117.4	117.1	122.3
400	80	405	405	185	355	75.2	75.2	75.2	87.8	87.8	87.8
	100	430	430	210	360	83.0	83.0	83.0	93.0	93.0	93.0
	150	490	490	270	370	89.3	89.3	90.3	101.9	101.9	102.9
	200	545	545	325	380	103.0	102.0	104.0	113.0	112.0	114.0
	250	605	605	385	390	111.3	111.0	114.6	123.9	123.6	127.2
	300	660	660	440	400	123.5	123.2	128.4	136.1	135.8	141.0
	350	700	700	480	410	132.9	135.7	143.6	145.5	148.3	156.2
450	100	455	435	215	390	90.5	90.5	91.0	108.5	108.5	109.0
	150	510	490	270	400	101.3	101.3	102.2	119.3	119.3	120.2
	200	570	550	330	410	113.2	113.2	115.0	131.2	131.2	133.0
	250	630	610	390	420	126.4	126.1	129.7	144.4	144.1	147.7
	300	685	665	445	430	139.7	139.4	144.6	157.7	157.4	162.6
	350	720	700	480	430	148.0	150.8	158.7	166.0	168.8	176.7
	400	800	780	560	450	166.6	173.1	182.3	184.6	191.1	200.3

1、DOUBLE-SOCKET LEVEL INVERT TEE WITH FLANGED BRANCH


K=14
T type
K type

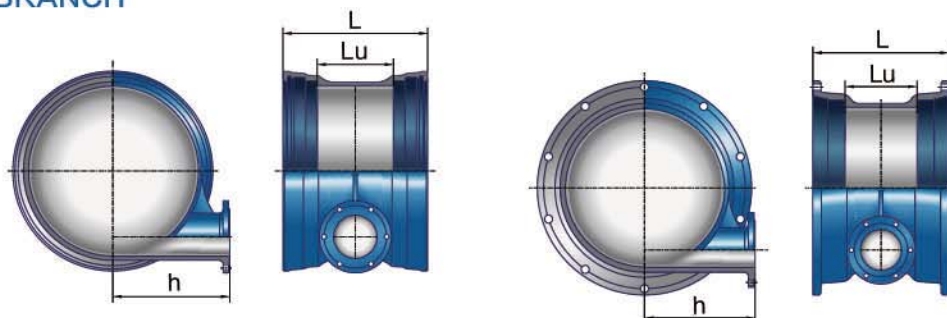
DN	dn	L/mm		Lu/mm	h/mm	MASS/kg					
		T type	K type			T type			K type		
						PN10	PN16	PN25	PN10	PN16	PN25
500	80	430	410	190	400	103.2	103.2	103.2	118.4	118.4	118.4
	100	455	435	215	420	116.0	116.0	117.0	123.7	123.7	124.2
	150	520	500	280	420	121.9	121.9	122.9	137.1	137.1	138.1
	200	570	550	330	440	142.0	141.0	143.0	149.0	149.1	150.9
	250	620	600	380	440	146.1	145.8	149.4	161.3	161.0	164.6
	300	680	660	440	440	160.5	160.2	165.4	175.7	175.4	180.6
	350	730	710	490	450	172.6	175.4	183.3	187.8	190.6	198.5
	400	805	785	565	480	199.0	205.0	216.0	208.2	214.7	223.9
	450	840	820	600	480	203.3	212.6	223.0	218.5	227.8	238.2
600	80	455	415	195	460	139.5	139.5	139.5	152.1	152.1	152.1
	100	460	420	200	460	141.3	141.3	141.8	153.9	153.9	154.4
	125	500	460	240	465	151.3	151.3	151.9	163.9	163.9	164.5
	150	520	480	260	470	163.1	163.1	164.0	175.7	175.7	176.6
	200	600	560	340	500	189.0	189.0	191.0	191.1	191.2	193.0
	250	640	600	380	500	191.1	190.7	194.4	203.7	203.3	207.0
	300	690	650	430	500	206.2	205.9	211.1	218.8	218.5	223.7
	350	750	710	490	510	222.8	225.6	233.5	235.4	238.2	246.1
	400	830	790	570	540	258.0	263.0	274.0	260.4	266.9	276.1
700	450	870	830	610	540	260.5	269.8	280.2	273.1	282.4	292.8
	500	930	890	670	540	280.6	295.0	305.4	293.2	307.6	318.0
	80	510	450	210	490	208.8	208.8	208.8	189.8	189.8	189.8
	100	530	470	230	490	215.0	215.0	215.5	196.0	196.0	196.5
	150	580	520	280	500	231.1	231.1	232.1	212.1	212.1	213.1
	200	645	585	345	525	252.4	252.4	254.2	233.4	233.4	235.2
	250	690	630	390	525	268.0	267.7	271.3	249.0	248.7	252.3
	300	740	680	440	525	285.3	285.0	290.2	266.3	266.0	271.2
	350	800	740	500	530	304.1	306.9	314.8	285.1	287.9	295.8
800	400	875	815	575	555	330.7	337.2	346.4	311.7	318.2	327.4
	450	910	850	610	545	341.6	350.9	361.3	322.6	331.9	342.3
	500	980	920	680	550	374.5	388.9	399.3	365.5	379.9	390.3
	600	1070	1010	770	565	416.3	441.3	453.7	407.3	432.3	444.7
	80	560	480	240	550	283.0	283.0	283.0	256.0	256.0	256.0
	100	580	500	260	550	290.0	289.9	290.5	263.6	263.5	264.1
	150	630	550	310	560	310.0	310.0	310.9	283.6	283.6	284.5
	200	670	590	350	585	326.5	326.6	328.4	300.1	300.2	302.0
	250	740	660	420	585	353.8	353.4	357.1	327.4	327.0	330.7
800	300	800	720	480	585	378.4	378.1	383.3	352.0	351.7	356.9
	350	850	770	530	590	398.1	400.9	408.8	371.7	374.5	382.4
	400	900	820	580	615	419.2	425.7	434.9	392.8	399.3	408.5
	450	960	880	640	615	443.2	452.5	462.9	416.8	426.1	436.5
	500	1010	930	690	615	522.0	513.0	537.0	528.0	549.0	540.0
	600	1130	1050	810	625	588.0	579.0	612.0	603.0	624.0	614.0

1、DOUBLE-SOCKET LEVEL INVERT TEE WITH FLANGED BRANCH


K=14
T type
K type

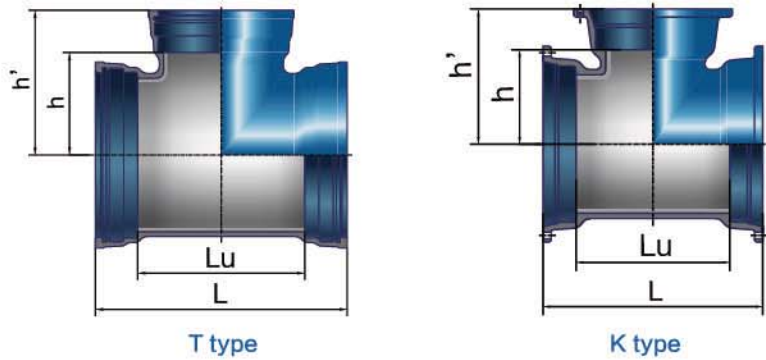
DN	dn	L/mm		Lu/mm	h/mm	MASS/kg					
		T type	K type			T type			K type		
						PN10	PN16	PN25	PN10	PN16	PN25
900	80	590	480	240	605	358.4	358.4	358.4	320.4	320.4	320.4
	100	610	500	260	610	367.5	367.4	368.0	329.5	329.4	330.0
	150	660	550	310	620	390.7	390.7	391.6	352.7	352.7	353.6
	200	705	595	355	645	411.6	411.7	413.5	373.6	373.7	375.5
	250	770	660	420	645	442.1	441.7	445.4	404.1	403.7	407.4
	300	830	720	480	650	470.5	470.2	475.4	432.5	432.2	437.4
	350	880	770	530	660	493.6	496.4	504.3	455.6	458.4	466.3
	400	940	830	590	675	522.8	529.3	538.5	484.8	491.3	500.5
	450	990	880	640	665	544.1	553.4	563.8	506.1	515.4	525.8
	500	1040	930	690	670	569.6	584.3	594.7	531.9	546.3	556.7
600	1170	1060	820	685	638.7	663.7	676.1	600.7	625.7	638.1	
1000	150	680	570	310	680	476.7	476.7	477.7	434.7	434.7	435.7
	200	730	620	360	705	504.4	504.4	506.2	462.4	462.4	464.2
	250	790	680	420	705	536.9	536.6	540.2	494.9	494.6	498.2
	300	850	740	480	710	569.9	569.6	574.8	527.9	527.6	532.8
	350	900	790	530	720	596.7	599.5	607.4	554.7	557.5	565.4
	400	965	855	595	735	632.9	639.4	648.6	590.9	597.4	606.6
	450	1010	900	640	725	655.3	664.6	675.0	613.3	622.6	633.0
	500	1060	950	690	730	684.7	699.1	709.5	642.7	657.1	667.5
600	1195	1085	825	745	756.2	781.2	793.6	714.2	739.2	751.6	
1100	150	714	570	310	740	580.0	580.0	581.0	507.2	507.2	508.2
	200	764	620	360	745	611.0	611.0	612.8	538.2	538.2	540.0
	450	1054	910	650	795	793.1	802.4	812.8	720.3	729.6	740.0
	500	1104	960	700	795	825.8	840.2	850.6	753.0	767.4	777.8
	600	1234	1090	830	825	915.9	940.9	953.3	843.1	868.1	880.5
1200	150	744	570	310	800	701.8	701.8	702.7	589.8	589.8	590.7
	200	794	620	360	805	738.1	738.1	739.9	626.1	626.1	627.9
	250	854	680	420	815	781.8	781.4	785.1	669.8	669.4	673.1
	300	914	740	480	820	825.7	825.4	830.6	713.7	713.4	718.6
	350	964	790	530	830	861.2	864.0	871.9	749.2	752.0	759.9
	400	1024	850	590	835	904.5	911.0	920.2	792.5	799.0	808.2
	450	1084	910	650	845	947.1	956.4	966.8	835.1	844.4	854.8
	500	1144	970	710	850	990.7	1005.0	1016.0	878.7	893.1	903.5
600	1274	1100	840	885	1090.0	1115.0	1128.0	977.8	1003.0	1016.0	

1、DOUBLE-SOCKET LEVEL INVERT TEE WITH FLANGED BRANCH


K=14
T type
K type

DN	dn	L/mm		Lu/mm	h/mm	MASS/kg					
		T type	K type			T type			K type		
						PN10	PN16	PN25	PN10	PN16	PN25
1400	400	1254	1030	770	920	1463.0	1470.0	1479.0	1171.0	1177.0	1187.0
	450	1314	1090	830	925	1516.0	1525.0	1535.0	1224.0	1233.0	1243.0
	500	1364	1140	880	935	1563.0	1577.0	1588.0	1271.0	1285.0	1295.0
	600	1514	1290	1030	980	1708.0	1733.0	1745.0	1415.0	1440.0	1453.0
1600	400	1342	1130	810	1060	2029.0	2036.0	2045.0	1599.0	1606.0	1615.0
	500	1457	1245	925	1075	2159.0	2174.0	2184.0	1729.0	1744.0	1754.0
	600	1572	1360	1040	1090	2293.0	2318.0	2330.0	1863.0	1888.0	1900.0
1800	400	1414	1160	820	1170	2486.0	2492.0	2501.0	2037.0	2043.0	2052.0
	500	1534	1280	940	1185	2646.0	2661.0	2671.0	2197.0	2212.0	2222.0
	600	1649	1395	1055	1200	2818.0	2843.0	2856.0	2369.0	2394.0	2406.0
2000	400	1473	1195	835	1290	3223.4	3229.9	3239.1	2542.0	2548.0	2558.0
	500	1588	1310	950	1305	3417.6	3432.0	3442.4	2726.0	2741.0	2751.0
	600	1703	1425	1065	1310	3611.8	3636.8	3649.2	2988.0	3015.0	3026.0
2200	400	1501	1225	845	1395	3885.7	3892.2	3901.4	3098.0	3105.0	3114.0
	500	1616	1340	960	1410	4114.3	4128.7	4139.1	3299.0	3314.0	3324.0
	600	1736	1460	1080	1420	4353.5	4378.5	4390.9	3647.0	3674.0	3687.0
2400	400	1553	1360	860	1505	4711.7	4718.2	4727.4	3937.0	3944.0	3953.0
	500	1673	1480	980	1520	4989.4	5003.8	5014.2	4202.0	4216.0	4226.0
	600	1783	1590	1090	1530	5245.7	5270.7	5283.1	4442.0	4467.0	4480.0
2600	400	1600	1390	870	1615	5558.3	5564.8	5574.0	4682.0	4688.0	4697.0
	500	1715	1505	985	1630	5865.3	5879.7	5890.1	4974.0	4988.0	4998.0
	600	1830	1620	1100	1640	6173.0	6198.0	6210.4	5265.0	5290.0	5303.0

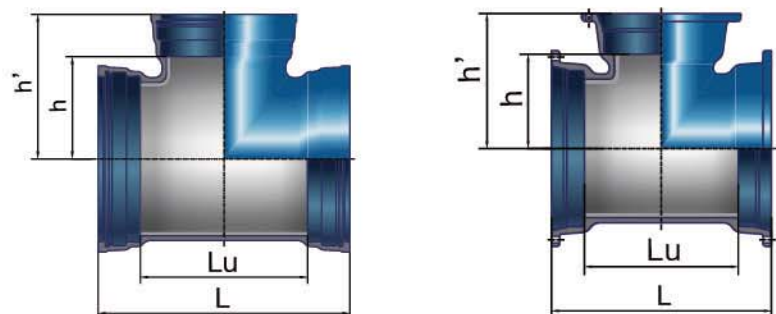
2、ALL SOCKET TEES



K=14

DN	dn	L/mm		Lu/mm	h/mm	h'/mm		MASS/kg	
		T type	K type			T type	K type	T type	K type
80	80	340	—	170	85	170	—	12.4	17.7
100	80	346	—	170	95	180	—	14.8	21.5
	100	366	350	190	95	183	175	16.1	23.2
150	80	358	330	170	120	205	—	21.5	29.2
	100	383	355	195	120	208	200	23.5	31.0
	150	443	415	255	125	219	205	28.0	35.6
200	80	375	—	175	145	230	—	30.0	37.9
	100	400	360	200	145	233	225	32.0	38.8
	150	455	415	255	150	244	230	37.0	44.0
	200	515	475	315	155	255	235	48.0	49.6
250	80	390	—	180	170	255	—	40.2	43.0
	100	410	360	200	170	258	250	42.8	47.9
	150	470	420	260	175	269	255	51.1	56.4
	200	525	475	315	180	280	260	55.9	60.9
	250	585	535	375	190	295	270	64.1	67.4
300	80	410	—	190	195	280	—	59.4	65.4
	100	425	425	205	195	283	275	61.1	67.7
	150	480	480	260	200	294	280	67.2	77.6
	200	540	540	320	205	305	285	75.5	82.9
	250	595	595	375	210	315	290	84.1	92.1
	300	655	655	435	220	330	330	97.6	104.5
350	80	400	—	180	220	305	—	63.6	74.5
	100	420	420	200	220	308	300	67.2	80.0
	125	460	460	240	225	350	350	71.7	83.6
	150	470	470	250	225	319	305	79.6	92.6
	200	520	520	300	230	330	310	84.9	97.5
	250	580	580	360	235	340	315	96.9	109.0
	300	640	640	420	240	350	350	106.0	122.0
	350	720	720	500	250	360	360	116.0	131.0
400	80	410	—	190	240	325	—	76.1	87.1
	100	430	430	210	245	333	325	82.2	95.0
	150	490	490	270	250	344	330	96.7	110.0
	200	550	550	330	255	355	335	102.0	115.0
	250	600	600	380	260	365	340	116.0	128.0
	300	660	660	440	270	380	380	126.0	142.0
	350	720	720	500	270	380	380	137.0	152.0
	400	780	780	560	280	390	390	150.0	166.0

2、ALL SOCKET TEES



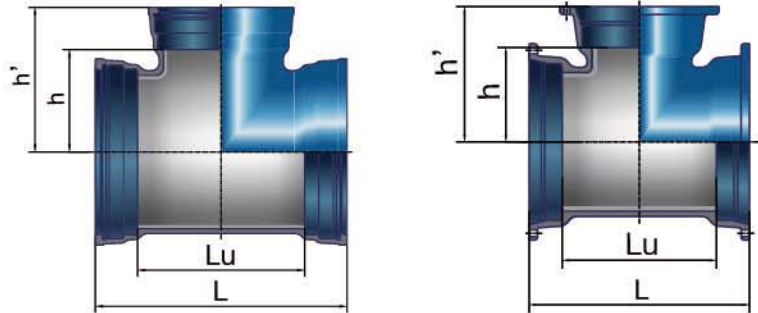
T type

K type

K=14

DN	dn	L/mm		Lu/mm	h/mm	h'/mm		MASS/kg	
		T type	K type			T type	K type	T type	K type
450	80	430	—	190	270	355	—	101.0	102.5
	100	450	430	210	270	358	350	106.0	116.0
	150	510	490	270	280	374	360	116.0	126.0
	200	570	550	330	280	380	360	127.0	137.0
	250	630	610	390	290	395	370	138.0	147.0
	300	685	665	445	290	400	400	149.0	163.0
	350	740	720	500	300	410	410	161.0	175.0
	400	800	780	560	300	410	410	173.0	186.0
500	450	860	840	620	310	430	420	186.0	198.0
	80	430	—	190	290	375	—	110.0	116.8
	100	460	440	220	295	383	375	115.0	123.0
	150	510	490	270	300	394	380	137.0	145.0
	200	570	550	330	310	410	390	141.0	149.0
	250	630	610	390	310	415	390	161.0	168.0
	300	690	670	450	320	430	430	174.0	185.0
	350	750	730	510	320	430	430	187.0	198.0
600	400	800	780	560	330	440	440	199.0	210.0
	450	860	840	620	335	455	445	214.0	224.0
	500	920	900	680	340	460	450	234.0	242.0
	80	460	—	200	340	425	—	165.0	165.0
	100	480	440	220	345	433	425	169.0	168.0
	150	540	500	280	350	444	430	185.0	184.0
	200	600	560	340	360	460	440	188.0	187.0
	250	660	620	400	360	465	440	215.0	213.0
700	300	710	670	450	370	480	480	231.0	233.0
	350	770	730	510	370	480	480	246.0	248.0
	400	830	790	570	380	490	490	258.0	260.0
	450	890	850	630	385	505	495	280.0	281.0
	500	950	910	690	390	510	500	296.0	296.0
	600	1060	1020	800	400	530	510	343.0	338.0
	80	505	—	205	390	475	—	217.0	207.0
	100	530	470	230	400	488	480	224.0	215.0
700	150	590	530	290	400	494	480	241.0	232.0
	200	640	580	340	410	510	490	259.0	250.0
	250	700	640	400	410	515	490	277.0	267.0
	300	760	700	460	420	530	530	297.0	290.0
	350	820	760	520	420	530	530	317.0	310.0
	400	880	820	580	430	540	540	337.0	329.0
	450	930	870	630	435	555	545	361.0	350.0
	500	1000	940	700	440	560	550	380.0	370.0
700	600	1110	1050	810	450	580	560	430.0	416.0
	700	1220	1160	920	460	610	580	486.0	470.0

2、ALL SOCKET TEES



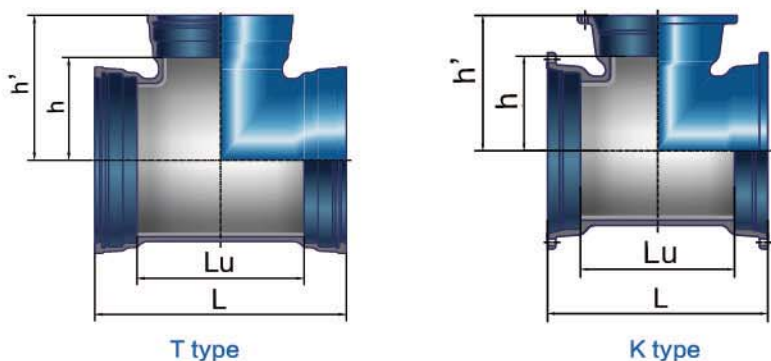
K=14

T type

K type

DN	dn	L/mm		Lu/mm	h/mm	h'/mm		MASS/kg	
		T type	K type			T type	K type	T type	K type
800	80	530	—	210	440	525	—	278.0	254.0
	100	550	470	230	445	533	525	287.0	264.0
	150	610	530	290	450	544	530	307.0	284.0
	200	670	590	350	460	560	540	330.0	305.0
	250	730	650	410	460	565	540	352.0	328.0
	300	790	710	470	470	580	580	374.0	353.0
	350	840	760	520	470	580	580	398.0	376.0
	400	900	820	580	480	590	590	420.0	398.0
	450	960	880	640	485	605	595	448.0	422.0
	500	1020	940	700	490	610	600	472.0	447.0
	600	1130	1050	810	500	630	610	526.0	497.0
	700	1250	1170	930	510	660	630	586.0	556.0
900	800	1365	1285	1045	520	680	640	655.0	618.0
	80	570	—	220	490	575	—	349.0	322.0
	100	590	480	240	500	588	580	360.0	333.0
	150	650	540	300	500	594	580	386.0	359.0
	200	710	600	360	510	610	590	410.0	382.0
	250	760	650	410	510	615	590	437.0	408.0
	300	820	710	470	520	630	630	462.0	438.0
	350	880	770	530	520	630	630	490.0	464.0
	400	940	830	590	530	640	640	518.0	491.0
	450	1000	890	650	535	655	645	547.0	518.0
	500	1050	940	700	540	660	650	574.0	546.0
	600	1170	1060	820	550	680	660	635.0	602.0
1000	700	1290	1180	940	560	710	680	700.0	667.0
	800	1400	1290	1050	570	730	690	774.0	733.0
	900	1520	1410	1170	580	755	700	858.0	815.0
	80	590	—	220	540	625	—	433.0	434.0
	100	620	510	250	550	638	630	443.0	445.0
	150	670	560	300	550	644	630	474.0	475.0
	200	730	620	360	560	660	640	502.0	503.0
	250	790	680	420	560	665	640	533.0	533.0
	300	850	740	480	570	680	680	564.0	568.0
	350	910	800	540	570	680	680	594.0	597.0
	400	960	850	590	580	690	690	626.0	628.0
	450	1020	910	650	585	705	695	659.0	658.0
	500	1080	970	710	590	710	700	690.0	690.0
	600	1200	1090	830	600	730	710	758.0	754.0
	700	1310	1200	940	610	760	730	831.0	825.0
	800	1430	1320	1060	620	780	740	913.0	901.0
	900	1540	1430	1170	630	805	750	1000.0	985.0
	1000	1660	1550	1290	645	830	775	1096.0	1096.0

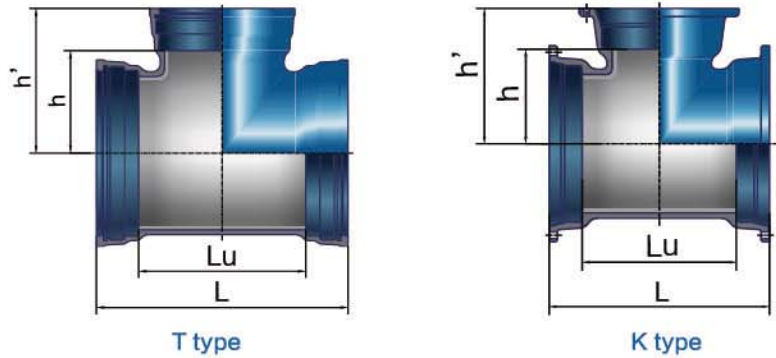
2、ALL SOCKET TEES



K=14

DN	dn	L/mm		Lu/mm	h/mm	h'/mm		MASS/kg	
		T type	K type			T type	K type	T type	K type
1100	80	634	—	230	590	675	—	524.1	452.7
	100	654	510	250	600	688	680	535.8	465.0
	150	714	570	310	600	694	680	570.1	499.8
	200	774	630	370	610	710	690	605.9	534.6
	250	834	690	430	610	715	690	641.4	569.3
	300	884	740	480	620	730	730	675.3	604.8
	350	944	800	540	620	730	730	706.7	638.9
	400	1004	860	600	630	740	740	741.0	674.5
	450	1064	920	660	635	755	745	775.1	711.3
	500	1124	980	720	640	760	750	812.5	747.3
	600	1234	1090	830	650	780	760	881.9	815.4
	700	1354	1210	950	660	810	780	972.2	894.9
	800	1464	1320	1060	670	830	790	1057.0	970.1
	900	1584	1440	1180	680	855	800	1154.0	1062.0
	1000	1704	1560	1300	695	880	825	1260.0	1166.0
	1100	1814	1670	1410	710	912	840	1375.0	1265.0
1200	80	669	—	235	640	725	—	640.9	530.3
	100	694	520	260	650	738	730	657.5	547.5
	150	754	580	320	650	744	730	697.1	587.6
	200	804	630	370	660	760	740	731.4	620.9
	250	864	690	430	660	765	740	772.0	660.7
	300	924	750	490	670	780	780	816.6	706.9
	350	984	810	550	670	780	780	853.0	746.0
	400	1044	870	610	680	790	790	892.3	786.6
	450	1094	920	660	685	805	795	929.0	821.7
	500	1154	980	720	690	810	800	966.9	862.5
	600	1274	1100	840	700	830	810	1054.0	945.6
	700	1384	1210	950	710	860	830	1145.0	1028.0
	800	1504	1330	1070	720	880	840	1243.0	1118.0
	900	1624	1450	1190	730	905	850	1348.0	1217.0
	1000	1734	1560	1300	745	930	875	1455.0	1322.0
	1200	1964	1790	1530	770	987	900	1713.0	1545.0
1400	80	734	—	250	740	825	—	988.8	698.0
	100	754	530	270	750	838	830	1006.0	715.9
	150	814	590	330	750	844	830	1058.0	767.5
	200	874	650	390	760	860	840	1110.0	818.8
	250	924	700	440	760	865	840	1153.0	861.5
	300	984	760	500	770	880	880	1209.0	918.9
	350	1044	820	560	770	880	880	1257.0	969.1
	400	1104	880	620	780	890	890	1307.0	1021.0
	450	1164	940	680	785	905	895	1357.0	1074.0

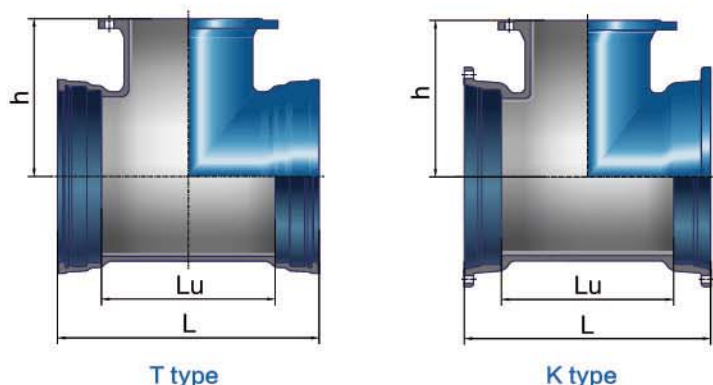
2、ALL SOCKET TEES



K=14

DN	dn	L/mm		Lu/mm	h/mm	h'/mm		MASS/kg	
		T type	K type			T type	K type	T type	K type
1400	500	1214	990	730	790	910	900	1402.0	1117.0
	600	1334	1110	850	800	930	910	1507.0	1221.0
	700	1454	1230	970	810	960	930	1627.0	1330.0
	800	1564	1340	1080	820	980	940	1737.0	1431.0
	900	1684	1460	1200	830	1005	950	1861.0	1550.0
	1000	1794	1570	1310	845	1030	975	1984.0	1670.0
	1100	1914	1690	1430	860	1062	990	2126.0	1797.0
	1200	2034	1810	1550	870	1087	1000	2279.0	1930.0
	1400	2264	2040	1780	890	1132	1020	2648.0	2210.0
1600	200	932	720	400	860	960	940	1551.0	1122.0
	250	992	780	460	860	965	940	1616.0	1186.0
	300	1042	830	510	870	980	980	1674.0	1246.0
	400	1162	950	630	880	990	990	1797.0	1373.0
	500	1302	1090	770	890	1010	1000	1946.0	1523.0
	600	1392	1180	860	900	1030	1010	2044.0	1620.0
	800	1622	1410	1090	920	1080	1040	2318.0	1875.0
	1000	1862	1650	1330	945	1130	1075	2618.0	2167.0
	1200	2092	1880	1560	970	1187	1100	2942.0	2456.0
1800	400	1234	980	640	980	1090	1090	2208.0	1765.0
	500	1354	1100	760	990	1110	1100	2353.0	1911.0
	600	1464	1210	870	1000	1130	1110	2526.0	2083.0
	800	1704	1450	1110	1020	1180	1140	2835.0	2373.0
	1000	1934	1680	1340	1045	1230	1175	3173.0	2703.0
	1200	2164	1910	1570	1070	1287	1200	3543.0	3037.0
	1400	2394	2140	1800	1090	1332	1220	3983.0	3387.0
2000	400	1288	1010	650	1080	1190	1190	2877.3	2205.0
	500	1408	1130	770	1090	1210	1200	3070.9	2479.0
	600	1528	1250	890	1100	1230	1210	3262.3	2660.0
	800	1758	1480	1120	1120	1280	1240	3642.7	3035.0
	1000	1988	1710	1350	1145	1330	1275	4035.9	3437.0
	1200	2218	1940	1580	1170	1387	1300	4490.7	3846.0
	1400	2448	2170	1810	1190	1432	1320	4945.3	4244.0
	1600	2688	2410	2050	1210	1476	1370	5487.3	4695.0

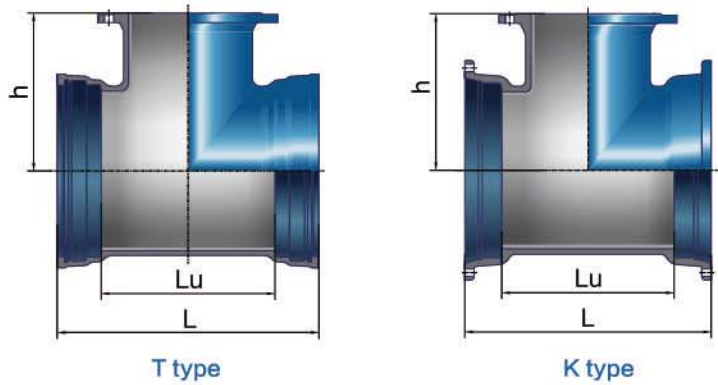
3、DOUBLE SOCKET TEE WITH FLANGED BRANCH



K=14

DN	dn	L/mm		Lu/mm	h/mm	MASS/kg					
		T type	K type			T type			K type		
						PN10	PN16	PN25	PN10	PN16	PN25
80	80	340	—	170	165	13.5	13.5	13.5	17.7	17.7	17.7
100	80	346	330	170	175	15.8	15.8	15.8	20.0	20.0	20.0
	100	366	350	190	180	17.2	17.2	17.7	22.0	22.0	22.0
150	80	358	330	170	205	23.0	23.0	23.0	28.0	28.0	28.0
	100	383	355	195	210	24.5	24.5	25.0	29.5	29.5	29.5
	150	443	415	255	220	29.5	29.5	30.5	34.5	34.5	34.5
200	80	375	335	175	235	31.5	31.5	31.5	36.0	36.0	36.0
	100	400	360	200	240	33.5	33.5	34.0	38.0	38.0	38.0
	150	455	415	255	250	39.0	39.0	40.0	43.4	43.4	43.4
	200	515	475	315	260	45.6	46.0	47.5	50.0	50.4	52.0
250	80	390	340	180	265	42.2	42.2	42.2	43.6	43.6	43.6
	100	410	360	200	270	43.5	43.5	44.0	46.0	46.0	46.5
	150	470	420	260	280	51.3	51.3	52.2	52.7	52.7	53.6
	200	525	475	315	290	57.0	57.0	59.0	60.0	60.0	62.0
	250	585	535	375	300	67.4	67.1	70.7	68.8	68.5	72.1
300	80	400	400	180	295	60.8	60.8	60.8	65.4	65.4	65.4
	100	425	425	205	300	64.2	64.2	64.7	68.8	68.8	69.3
	150	480	480	260	310	71.2	71.2	72.1	75.8	75.8	76.7
	200	540	540	320	320	77.9	77.9	79.7	82.5	82.5	84.3
	250	600	600	380	330	87.8	87.4	91.1	92.4	92.0	95.7
	300	655	655	435	340	98.7	98.4	103.6	103.3	103.0	108.2
350	80	405	405	185	325	66.0	66.0	66.0	76.0	76.0	76.0
	100	425	425	205	330	68.0	68.0	68.0	78.4	78.4	78.9
	150	490	490	270	340	82.3	81.3	82.3	93.0	93.0	93.0
	200	545	545	325	350	86.0	86.0	88.0	96.0	96.0	98.0
	250	605	605	385	360	93.2	92.9	96.5	105.6	105.3	108.9
	300	640	640	420	370	105.0	104.7	109.9	117.4	117.1	122.3
	350	715	715	495	380	117.0	120.0	129.0	128.3	131.1	139.0
400	80	405	405	185	355	80.0	80.0	80.0	90.0	90.0	90.0
	100	430	430	210	360	83.0	83.0	83.0	93.0	93.0	93.0
	150	490	490	270	370	89.3	89.3	90.3	101.9	101.9	102.9
	200	545	545	325	380	103.0	102.0	104.0	113.0	112.0	114.0
	250	605	605	385	390	111.3	111.0	114.6	123.9	123.6	127.2
	300	660	660	440	400	123.5	123.2	128.4	136.1	135.8	141.0
	350	700	700	480	410	143.0	146.0	143.6	145.5	148.3	156.2
	400	780	780	560	420	150.0	156.0	167.0	161.7	168.2	177.4
450	80	430	435	190	370	85.8	85.8	85.8	103.8	103.8	103.8
	100	455	435	215	390	90.5	90.5	91.0	108.5	108.5	109.0
	150	510	490	270	400	101.3	101.3	102.2	119.3	119.3	120.2
	200	570	550	330	410	113.2	113.2	115.0	131.2	131.2	133.0
	250	630	610	390	420	126.4	126.1	129.7	144.4	144.1	147.7
	300	685	665	445	430	139.7	139.4	144.6	157.7	157.4	162.6
	350	720	700	480	430	148.0	150.8	158.7	166.0	168.8	176.7
	400	800	780	560	450	166.6	173.1	182.3	184.6	191.1	200.3
	450	860	840	620	460	181.5	190.8	201.2	199.5	208.8	219.2

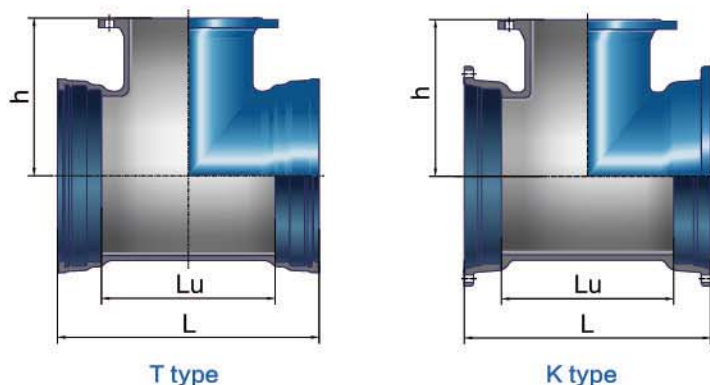
3、DOUBLE SOCKET TEE WITH FLANGED BRANCH



K=14

DN	dn	L/mm		Lu/mm	h/mm	MASS/kg					
		T type	K type			T type			K type		
						PN10	PN16	PN25	PN10	PN16	PN25
500	80	430	410	190	400	103.2	103.2	103.2	118.4	118.4	118.4
	100	455	435	215	420	116.0	116.0	117.0	123.7	123.7	124.2
	150	520	500	280	420	121.9	121.9	122.9	137.1	137.1	138.1
	200	570	550	330	440	142.0	141.0	143.0	149.0	149.1	150.9
	250	620	600	380	440	146.1	145.8	149.4	161.3	161.0	164.6
	300	680	660	440	440	160.5	160.2	165.4	175.7	175.4	180.6
	350	730	710	490	450	172.6	175.4	183.3	187.8	190.6	198.5
	400	805	785	565	480	199.0	205.0	216.0	208.2	214.7	223.9
	450	840	820	600	480	203.3	212.6	223.0	218.5	227.8	238.2
	500	920	900	680	500	232.0	247.0	259.0	242.9	257.3	267.7
600	80	455	415	195	460	168.0	168.0	169.0	164.0	164.0	170.0
	100	460	420	200	460	171.0	171.0	171.0	167.0	167.0	168.0
	150	520	480	260	470	187.0	187.0	188.0	182.0	182.0	183.0
	200	600	560	340	500	189.0	189.0	191.0	185.0	185.0	188.0
	250	640	600	380	500	219.0	218.0	222.0	215.0	215.0	218.0
	300	690	650	430	500	235.0	235.0	240.0	231.0	231.0	236.0
	350	750	710	490	510	252.0	255.0	263.0	247.0	251.0	260.0
	400	830	790	570	540	258.0	263.0	274.0	254.0	259.0	270.0
	450	870	830	610	540	285.0	293.0	309.0	281.0	289.0	305.0
	500	930	890	670	540	304.0	309.0	331.0	301.0	305.0	327.0
600	1060	1020	800	580	340.0	366.0	380.0	336.0	363.0	376.0	
700	80	510	450	210	490	208.8	208.8	208.8	189.8	189.8	189.8
	100	530	470	230	490	215.0	215.0	215.5	196.0	196.0	196.5
	150	580	520	280	500	231.1	231.1	232.1	212.1	212.1	213.1
	200	645	585	345	525	252.4	252.4	254.2	233.4	233.4	235.2
	250	690	630	390	525	268.0	267.7	271.3	249.0	248.7	252.3
	300	740	680	440	525	285.3	285.0	290.2	266.3	266.0	271.2
	350	800	740	500	530	304.1	306.9	314.8	285.1	287.9	295.8
	400	875	815	575	555	330.7	337.2	346.4	311.7	318.2	327.4
	450	910	850	610	545	341.6	350.9	361.3	322.6	331.9	342.3
	500	980	920	680	550	367.0	381.4	391.8	348.0	362.4	372.8
	600	1070	1010	770	565	407.5	432.5	444.9	388.5	413.5	425.9
	700	1225	1165	925	600	477.7	491.8	524.3	458.7	472.8	505.3
800	80	560	480	240	550	278.9	278.9	278.9	252.5	252.5	252.5
	100	580	500	260	550	286.2	286.1	286.7	259.8	259.7	260.3
	150	630	550	310	560	305.1	305.1	306.0	278.7	278.7	279.6
	200	670	590	350	585	321.5	321.5	323.3	295.1	295.1	296.9
	250	740	660	420	585	347.9	347.6	351.2	321.5	321.2	324.8
	300	800	720	480	585	371.2	370.9	376.1	344.8	344.5	349.7
	350	850	770	530	590	389.9	392.7	400.6	363.5	366.3	374.2
	400	900	820	580	615	412.2	418.7	427.9	385.8	392.3	401.5
	450	960	880	640	615	434.6	443.9	454.3	408.2	417.5	427.9
	500	1010	930	690	615	456.4	470.8	481.2	430.0	444.4	454.8
	600	1365	1285	1045	645	514.6	539.6	552.0	488.2	513.2	525.6
	700	1240	1160	920	655	571.4	585.5	618.0	545.0	559.1	591.6
	800	1365	1285	1045	675	645.8	663.5	709.5	619.4	637.1	683.1

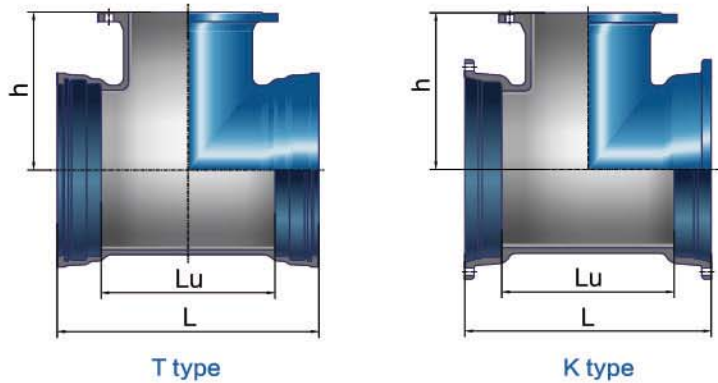
3、DOUBLE SOCKET TEE WITH FLANGED BRANCH



K=14

DN	dn	L/mm		Lu/mm	h/mm	MASS/kg					
		T type	K type			T type			K type		
						PN10	PN16	PN25	PN10	PN16	PN25
900	80	590	480	240	605	354.6	354.6	354.6	316.6	316.6	316.6
	100	610	500	260	610	363.4	363.3	363.9	325.4	325.3	325.9
	150	660	550	310	620	385.7	385.7	386.7	347.7	347.7	348.7
	200	705	595	355	645	406.9	407.0	408.8	368.9	369.0	370.8
	250	770	660	420	645	436.1	435.8	439.4	398.1	397.8	401.4
	300	830	720	480	650	463.9	463.6	468.8	425.9	425.6	430.8
	350	880	770	530	660	486.5	489.3	497.2	448.5	451.3	459.2
	400	940	830	590	675	515.1	521.6	530.8	477.1	483.6	492.8
	450	990	880	640	680	538.1	547.4	557.8	500.1	509.4	519.8
	500	1040	930	690	690	564.7	579.1	589.5	526.7	541.1	551.5
	600	1520	1410	1170	705	631.8	656.8	669.2	593.8	618.8	631.2
	700	1270	1160	920	720	691.9	706.0	738.5	653.9	668.0	700.5
	800	1390	1280	1040	735	768.8	786.5	832.5	730.8	748.5	794.5
900	1520	1410	1170	750	851.6	873.2	929.2	813.6	835.2	891.2	
1000	80	610	500	240	670	435.0	435.0	435.0	393.0	393.0	393.0
	100	630	520	260	670	445.2	445.2	445.7	403.2	403.2	403.7
	150	680	570	310	680	476.7	476.7	477.7	434.7	434.7	435.7
	200	730	620	360	705	498.3	498.4	500.2	456.3	456.4	458.2
	250	790	680	420	705	530.0	529.7	533.3	488.0	487.7	491.3
	300	850	740	480	710	562.2	561.9	567.1	520.2	519.9	525.1
	350	900	790	530	720	588.4	591.2	599.1	546.4	549.2	557.1
	400	965	855	595	735	623.8	630.3	639.5	581.8	588.3	597.5
	450	1010	900	640	740	647.9	657.2	667.6	605.9	615.2	625.6
	500	1060	950	690	750	678.0	692.4	702.8	636.0	650.4	660.8
	600	1660	1550	1290	765	756.5	781.5	793.9	714.5	739.5	751.9
	700	1300	1190	930	780	825.3	839.4	871.9	783.3	797.4	829.9
	800	1410	1300	1040	795	904.5	922.2	968.2	862.5	880.2	926.2
900	1530	1420	1160	810	989.1	1011.0	1067.0	947.1	968.7	1025.0	
1000	1660	1550	1290	825	1094.0	1132.0	1205.0	1052.0	1090.0	1163.0	
1100	80	644	500	240	730	531.7	531.7	531.7	458.9	458.9	458.9
	100	664	520	260	730	543.6	543.6	544.1	470.8	470.8	471.3
	150	714	570	310	740	573.9	573.9	574.8	501.1	501.1	502.0
	200	764	620	360	745	604.0	604.1	605.9	531.2	531.3	533.1
	250	824	680	420	755	640.9	640.6	644.2	568.1	567.8	571.4
	300	884	740	480	760	677.8	677.5	682.7	605.0	604.7	609.9
	350	934	790	530	770	707.8	710.6	718.5	635.0	637.8	645.7
	400	1004	860	600	795	744.2	750.7	759.9	671.4	677.9	687.1
	450	1054	910	650	795	780.4	789.7	800.1	707.6	716.9	727.3
	500	1104	960	700	795	813.2	827.6	838.0	740.4	754.8	765.2
	600	1234	1090	830	825	892.6	917.6	930.0	819.8	844.8	857.2
	700	1344	1200	940	830	976.2	990.3	1023.0	903.4	917.5	950.0
	800	1454	1310	1050	835	1062.0	1080.0	1126.0	988.8	1007.0	1053.0
900	1574	1430	1170	850	1153.0	1174.0	1230.0	1080.0	1102.0	1158.0	
1000	1684	1540	1280	870	1254.0	1292.0	1365.0	1181.0	1219.0	1292.0	
1100	1794	1650	1390	880	1359.0	1398.0	1482.0	1287.0	1325.0	1409.0	

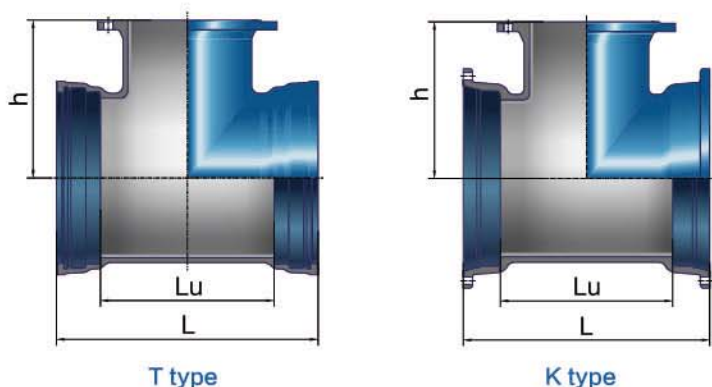
3、DOUBLE SOCKET TEE WITH FLANGED BRANCH



K=14

DN	dn	L/mm		Lu/mm	h/mm	MASS/kg					
		T type	K type			T type			K type		
						PN10	PN16	PN25	PN10	PN16	PN25
1200	80	674	500	240	790	646.3	646.3	646.3	534.3	534.3	534.3
	100	694	520	260	790	659.9	659.9	660.4	547.9	547.9	548.4
	150	744	570	310	800	694.6	694.6	695.6	582.6	582.6	583.6
	200	794	620	360	805	729.2	729.2	731.0	617.2	617.2	619.0
	250	854	680	420	815	771.3	771.0	774.6	659.3	659.0	662.6
	300	914	740	480	820	813.4	813.1	818.3	701.4	701.1	706.3
	350	964	790	530	830	847.7	850.5	858.4	735.7	738.5	746.4
	400	1024	850	590	835	889.2	895.7	904.9	777.2	783.7	792.9
	450	1084	910	650	845	930.5	939.8	950.2	818.5	827.8	838.2
	500	1144	970	710	850	974.0	988.4	998.8	862.0	876.4	886.8
	600	1274	1100	840	885	1074.0	1099.0	1112.0	962.0	987.0	999.4
	700	1374	1200	940	885	1152.0	1166.0	1198.0	1040.0	1054.0	1086.0
	800	1504	1330	1070	915	1264.0	1281.0	1327.0	1152.0	1169.0	1215.0
	900	1624	1450	1190	920	1361.0	1382.0	1438.0	1249.0	1270.0	1326.0
	1000	1734	1560	1300	945	1472.0	1510.0	1583.0	1360.0	1398.0	1471.0
	1200	1954	1780	1520	955	1703.0	1761.0	1852.0	1591.0	1649.0	1740.0
1400	80	824	600	340	870	1067.0	1067.0	1067.0	774.5	774.5	774.5
	100	904	680	420	875	1135.0	1135.0	1136.0	842.8	842.8	843.3
	150	964	740	480	880	1188.0	1188.0	1189.0	895.2	895.2	896.2
	200	1024	800	540	890	1240.0	1240.0	1242.0	947.7	947.7	949.5
	250	1044	820	560	895	1259.0	1259.0	1263.0	966.8	966.5	970.1
	300	1134	910	650	905	1338.0	1338.0	1343.0	1046.0	1046.0	1051.0
	350	1194	970	710	910	1389.0	1392.0	1400.0	1097.0	1100.0	1108.0
	400	1254	1030	770	920	1442.0	1449.0	1458.0	1150.0	1156.0	1166.0
	450	1314	1090	830	925	1493.0	1503.0	1513.0	1201.0	1211.0	1221.0
	500	1364	1140	880	935	1540.0	1554.0	1564.0	1247.0	1262.0	1272.0
	600	1514	1290	1030	980	1681.0	1706.0	1718.0	1389.0	1414.0	1426.0
	700	1604	1380	1120	990	1769.0	1783.0	1816.0	1477.0	1491.0	1523.0
	800	1744	1520	1260	1010	1908.0	1926.0	1972.0	1616.0	1634.0	1680.0
	900	1834	1610	1350	1020	2001.0	2022.0	2078.0	1708.0	1730.0	1786.0
	1000	1979	1755	1495	1040	2155.0	2193.0	2266.0	1863.0	1901.0	1973.0
	1100	2064	1840	1580	1045	2257.0	2295.0	23799.0	1965.0	2003.0	2087.0
	1200	2184	1960	1700	1050	2398.0	2457.0	2547.0	2106.0	2164.0	2255.0
	1400	2414	2190	1930	1070	2686.0	2747.0	2887.0	2394.0	2455.0	2595.0

3、DOUBLE SOCKET TEE WITH FLANGED BRANCH



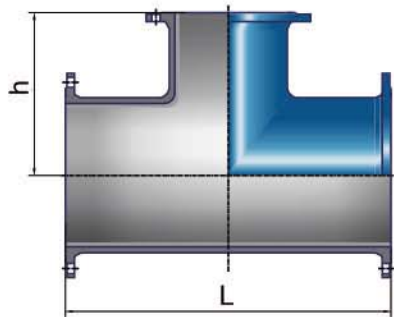
K=14

T type

K type

DN	dn	L/mm		Lu/mm	h/mm	MASS/kg					
		T type	K type			T type			K type		
						PN10	PN16	PN25	PN10	PN16	PN25
1600	200	1112	900	580	1030	1748.0	1748.0	1750.0	1318.0	1318.0	1320.0
	250	1167	955	635	1040	1810.0	1809.0	1813.0	1380.0	1379.0	1383.0
	300	1227	1015	695	1045	1876.0	1876.0	1881.0	1446.0	1446.0	1451.0
	400	1342	1130	810	1060	2002.0	2008.0	2017.0	1572.0	1578.0	1587.0
	500	1457	1245	925	1075	2129.0	2143.0	2154.0	1699.0	1713.0	1724.0
	600	1572	1360	1040	1090	2260.0	2285.0	2297.0	1908.0	1934.0	1967.0
	800	1807	1595	1275	1120	2811.0	2829.0	2875.0	2381.0	2399.0	2445.0
	1000	2037	1825	1505	1150	2824.0	2862.0	2935.0	2480.0	2522.0	2594.0
	1200	2272	2060	1740	1180	3146.0	3205.0	3295.0	2799.0	2863.0	2954.0
1800	400	1414	1160	820	1170	2448.0	2454.0	2463.0	1998.0	2005.0	2014.0
	500	1534	1280	940	1185	2608.0	2623.0	2633.0	2159.0	2174.0	2184.0
	600	1649	1395	1055	1200	2766.0	2791.0	2803.0	2414.0	2440.0	2453.0
	800	1879	1625	1285	1230	3092.0	3109.0	3155.0	2748.0	2767.0	2813.0
	1000	2114	1860	1520	1260	3434.0	3472.0	3545.0	3095.0	3137.0	3210.0
	1200	2344	2090	1750	1290	3798.0	3856.0	3947.0	3460.0	3524.0	3614.0
	1400	2574	2320	1980	1320	4173.0	4233.0	4373.0	3723.0	3784.0	3924.0
2000	400	1473	1195	835	1290	3199.9	3206.4	3215.6	2496.0	2502.0	2511.0
	500	1588	1310	950	1305	3390.1	3404.5	3414.9	2681.0	2695.0	2705.0
	600	1703	1425	1065	1310	3581.2	3606.2	3618.6	2988.0	3015.0	3028.0
	800	1938	1660	1300	1340	3983.9	4001.6	4047.6	3231.0	3248.0	3294.0
	1000	2168	1890	1530	1370	4386.9	4424.6	4497.2	3790.0	3832.0	3904.0
	1200	2398	2120	1760	1400	4816.4	4874.7	4965.4	4014.0	4072.0	4163.0
	1400	2633	2355	1995	1430	5261.7	5322.5	5462.2	4645.0	4713.0	4852.0
	1600	2863	2585	2225	1460	5799.0	5891.3	6051.5	4892.0	4984.0	5144.0

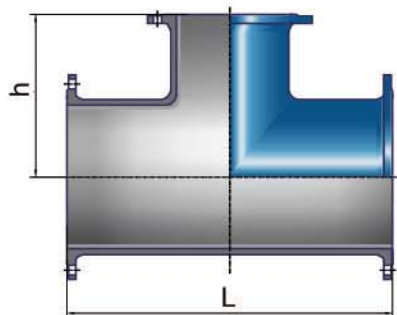
4、ALL FLANGED TEES



K=14

DN	dn	L/mm	h/mm	MASS/kg		
				PN10	PN16	PN25
80	80	330	165	15.6	15.6	15.6
100	80	360	175	18.4	18.4	19.5
	100	360	180	19.4	19.4	21.0
150	80	440	205	28.5	28.5	31.0
	100	440	210	29.5	29.5	32.0
	150	440	220	32.5	32.5	36.0
200	80	520	235	42.0	41.5	46.0
	100	520	240	43.0	42.0	47.5
	150	520	250	46.0	45.5	51.0
	200	520	260	49.5	49.0	56.0
250	80	700	265	66.0	65.3	72.6
	100	700	275	68.0	67.0	75.0
	150	700	300	70.6	69.9	78.1
	200	700	325	76.0	75.0	85.0
	250	700	350	82.0	81.0	93.0
300	80	800	290	91.5	90.9	101.3
	100	800	300	94.0	93.0	105.0
	150	800	325	96.0	95.4	106.7
	200	800	350	102.0	101.0	114.0
	250	800	375	106.9	105.9	120.0
	300	800	400	116.0	115.0	131.0
350	80	850	325	113.8	119.4	135.2
	100	850	325	116.0	122.0	139.0
	150	850	325	117.2	122.8	139.5
	200	850	325	121.0	128.0	146.0
	250	850	325	123.9	129.2	148.6
	300	850	425	136.2	141.5	162.5
	350	850	425	142.0	151.0	176.0
400	80	900	350	140.9	153.9	172.3
	100	900	350	143.0	154.0	177.0
	150	900	350	144.2	157.2	176.5
	200	900	350	148.0	159.0	184.0
	250	900	350	150.6	163.3	185.3
	300	900	450	162.7	175.4	199.0
	350	900	450	167.4	183.2	209.5
	400	900	450	174.0	191.0	225.0
450	80	950	375	169.7	188.3	209.1
	100	950	375	170.5	189.0	210.4
	150	950	375	172.9	191.5	213.2
	200	950	375	175.5	194.1	216.7
	250	950	375	179.1	197.3	221.8
	300	950	475	190.8	209.1	235.1
	350	950	475	195.2	216.6	245.3
	400	950	475	201.1	226.2	256.2
	450	950	475	207.0	234.9	266.1

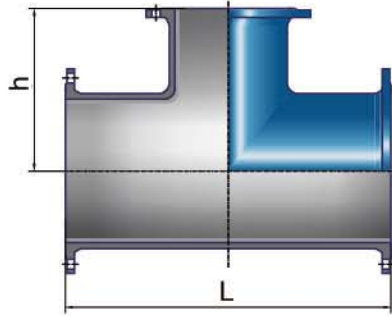
4、ALL FLANGED TEES



K=14

DN	dn	L/mm	h/mm	MASS/kg		
				PN10	PN16	PN25
500	80	1000	400	207.4	236.2	257.0
	100	1000	400	210.0	241.0	265.0
	150	1000	400	210.6	239.4	261.1
	200	1000	400	215.0	245.0	271.0
	250	1000	400	216.5	244.9	269.4
	300	1000	500	228.1	256.6	282.6
	350	1000	500	232.2	263.8	292.5
	400	1000	500	242.0	276.0	311.0
	450	1000	500	242.9	281.0	312.2
600	500	1000	500	252.0	297.0	332.0
	80	1100	450	296.0	346.0	370.8
	100	1100	450	296.7	346.7	372.0
	150	1100	450	299.0	349.0	374.7
	200	1100	450	305.0	358.0	388.0
	250	1100	450	304.4	354.0	382.5
	300	1100	550	315.6	365.3	395.3
	350	1100	550	319.3	372.1	404.8
	400	1100	550	329.0	387.0	427.0
	450	1100	550	328.6	387.9	423.1
700	500	1100	550	336.1	400.5	435.7
	600	1100	550	355.0	434.0	477.0
	80	520	505	223.3	251.5	316.5
	100	540	510	229.5	257.6	323.2
	150	595	520	246.8	275.0	340.9
	200	650	525	258.0	298.0	359.3
	250	705	530	282.5	310.3	379.0
	300	760	540	301.6	329.5	399.7
	350	815	550	319.4	350.4	423.3
	400	870	555	343.0	379.0	447.1
	450	925	560	356.5	394.0	469.4
	500	980	570	378.6	421.2	496.6
800	600	1090	585	425.4	478.6	556.0
	700	1200	600	477.0	523.0	618.7
	80	560	565	298.0	333.4	425.4
	100	580	570	305.4	340.8	433.3
	150	635	580	326.2	361.6	454.6
	200	690	585	347.0	382.4	476.2
	250	745	590	368.8	403.8	499.5
	300	800	600	391.3	426.4	523.6
	350	855	610	412.4	450.6	550.5
	400	910	615	441.0	484.0	586.0
	450	965	620	455.9	500.6	603.0
	500	1020	630	481.0	530.8	633.2
	600	1350	645	606.5	666.9	771.3
	700	1350	660	628.1	677.6	802.1
	800	1350	675	659.7	715.0	850.8

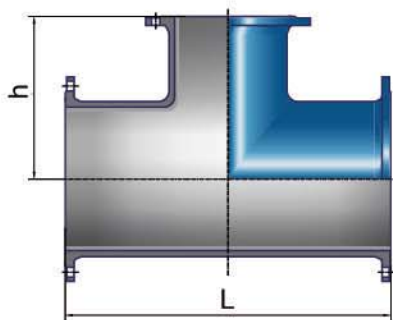
4、ALL FLANGED TEES



K=14

DN	dn	L/mm	h/mm	MASS/kg		
				PN10	PN16	PN25
900	80	600	630	371.6	414.8	526.8
	100	620	630	380.4	423.6	536.1
	150	675	635	404.8	448.0	561.0
	200	730	645	436.0	484.0	598.0
	250	785	650	455.1	497.9	613.6
	300	840	660	481.3	524.2	641.4
	350	895	670	506.1	552.1	672.0
	400	950	675	541.0	594.0	715.2
	450	1005	680	556.6	609.1	731.5
	500	1060	690	585.3	642.9	765.3
	600	1500	705	787.0	860.0	969.6
	700	1500	720	796.9	854.2	998.7
	800	1500	735	825.6	886.5	1045.0
1000	900	1500	750	856.2	924.0	1089.0
	80	640	690	470.4	545.8	691.0
	100	660	690	480.7	556.1	701.8
	150	715	695	509.3	584.7	730.8
	200	770	705	546.0	629.0	775.6
	250	825	710	567.8	642.8	791.7
	300	880	720	598.1	673.2	823.6
	350	935	730	626.9	705.1	858.2
	400	990	735	668.0	755.0	910.0
	450	1045	740	685.4	770.1	925.7
	500	1100	750	717.7	807.5	963.1
	600	1650	765	1007.0	1095.0	1253.0
	700	1650	780	1014.0	1103.0	1281.0
1100	800	1650	795	1040.0	1133.0	1325.0
	900	1650	810	1068.0	1165.0	1366.0
	1000	1650	825	1110.0	1229.0	1441.0
	80	680	745	579.7	656.5	824.5
	100	700	750	591.8	668.6	837.1
	150	755	755	625.0	701.8	870.7
	200	810	765	658.3	735.2	905.0
	250	865	770	692.4	768.9	940.5
	300	920	780	727.1	803.6	976.8
	350	975	790	760.3	839.9	1016.0
	400	1030	795	794.3	877.6	1055.0
	450	1085	800	827.5	913.6	1092.0
	500	1140	810	864.2	955.4	1134.0
	600	1800	825	1248.0	1350.0	1530.0
	700	1800	840	1265.0	1356.0	1556.0
	800	1800	855	1290.0	1385.0	1599.0
	900	1800	870	1315.0	1413.0	1637.0
	1000	1800	885	1354.0	1469.0	1709.0
	1100	1800	900	1402.0	1517.0	1769.0

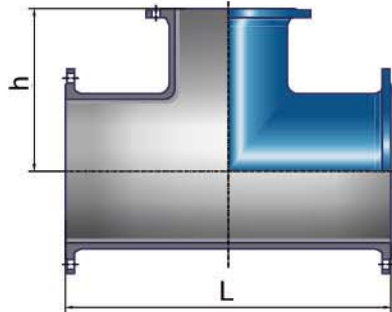
4、ALL FLANGED TEES



K=14

DN	dn	L/mm	h/mm	MASS/kg		
				PN10	PN16	PN25
1200	80	635	805	654.9	771.5	952.9
	100	660	810	671.9	788.5	970.4
	150	715	820	710.1	826.7	1009.0
	200	775	825	751.4	868.1	1052.0
	250	830	830	790.3	906.6	1092.0
	300	890	840	833.1	949.4	1136.0
	350	950	50	913.1	1033.0	1222.0
	400	1005	855	912.9	1036.0	1227.0
	450	1065	860	954.0	1080.0	1272.0
	500	1120	870	995.3	1127.0	1319.0
	600	1240	885	1101.0	1256.0	1450.0
	700	1355	900	1177.0	1308.0	1522.0
	800	1470	915	1291.0	1439.0	1666.0
	900	1590	930	1376.0	1514.0	1752.0
1400	1000	1700	945	1494.0	1664.0	1918.0
	1200	1930	975	1734.0	1909.0	2181.0
	80	950	900	1101.0	1223.0	1502.0
	100	970	905	1119.0	1242.0	1522.0
	150	1030	910	1172.0	1293.0	1574.0
	200	1085	920	1220.0	1342.0	1623.0
	250	1140	930	1270.0	1391.0	1674.0
	300	1200	935	1323.0	1445.0	1729.0
	350	1260	940	1375.0	1500.0	1787.0
	400	1320	950	1429.0	1557.0	1845.0
	450	1380	960	1481.0	1612.0	1902.0
	500	1430	965	1527.0	1663.0	1953.0
	600	1550	980	1639.0	1818.0	2077.0
	700	1670	995	1753.0	1889.0	2201.0
	800	1780	1010	1886.0	2041.0	2367.0
	900	1900	1025	1985.0	2129.0	2464.0
	1000	2015	1040	2131.0	2309.0	2661.0
	1100	2130	1055	2245.0	2405.0	2769.0
	1200	2250	1070	2394.0	2574.0	2944.0
	1400	2480	1100	2695.0	2877.0	3296.0

4、ALL FLANGED TEES

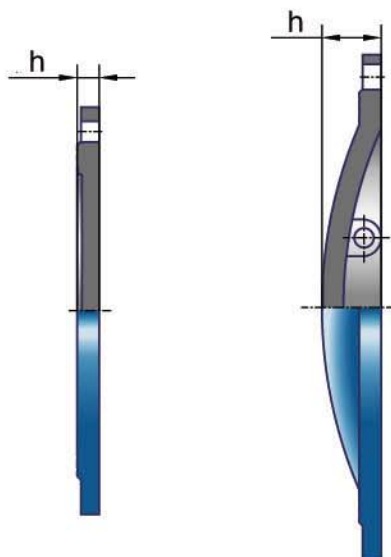


K=14

DN	dn	L/mm	h/mm	MASS/kg		
				PN10	PN16	PN25
1600	200	1140	1030	1636.0	1820.0	2143.0
	250	1200	1040	1703.0	1887.0	2211.0
	300	1250	1045	1758.0	1943.0	2268.0
	400	1370	1060	1889.0	2080.0	2410.0
	500	1490	1075	2022.0	2221.0	2551.0
	600	1600	1090	2167.0	2398.0	2731.0
	800	1835	1120	2452.0	2675.0	3041.0
	1000	2065	1150	2740.0	2986.0	3378.0
	1200	2300	1180	3058.0	3327.0	3738.0
	1400	2530	1210	3366.0	3611.0	4071.0
1800	1600	2760	1240	3770.0	4047.0	4528.0
	400	1420	1170	2357.0	2590.0	3033.0
	500	1540	1185	2513.0	2753.0	3197.0
	600	1655	1200	2694.0	2972.0	3418.0
	800	1885	1230	3023.0	3299.0	3779.0
	1000	2120	1260	3375.0	3669.0	4176.0
	1200	2350	1290	3740.0	4056.0	4580.0
	1400	2580	1320	4077.0	4364.0	4937.0
	1600	2810	1350	4515.0	4833.0	5427.0
2000	1800	3050	1380	4986.0	5325.0	5976.0
	400	1470	1280	2909.0	3189.0	3843.0
	500	1590	1295	3095.0	3383.0	4037.0
	600	1705	1310	3300.0	3642.0	4298.0
	800	1940	1340	3674.0	3965.0	4655.0
	1000	2170	1370	4112.0	4459.0	5175.0
	1200	2400	1400	4484.0	4816.0	5551.0
	1400	2635	1430	4966.0	5340.0	6123.0
	1600	2870	1460	5408.0	5775.0	6579.0
	1800	3100	1490	5902.0	6289.0	7150.0
	2000	3330	1520	6462.0	6873.0	7839.0

V、PLUGS

1、BLANK FLANGES



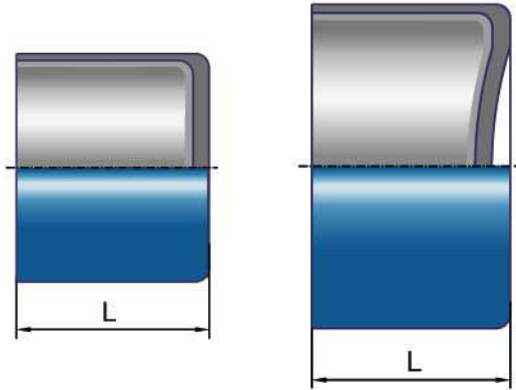
DN ≤ 300

DN ≥ 350

K=12

DN	PN10		PN16		PN25	
	h/mm	MASS/kg	h/mm	MASS/kg	h/mm	MASS/kg
80	19.0	3.5	19.0	3.5	19.0	3.5
100	19.0	4.3	19.0	4.3	19.0	4.8
150	19.0	7.2	19.0	7.2	20.0	8.3
200	20.0	11.0	20.0	10.8	22.0	13.2
250	22.0	16.9	22.0	16.6	24.5	20.9
300	24.5	24.0	24.5	23.5	27.5	29.9
350	69.0	30.7	71.0	35.0	75.0	45.1
400	76.0	38.1	80.0	48.2	84.0	60.5
450	84.0	47.1	88.0	60.9	93.0	76.3
500	92.0	58.7	97.0	80.3	102.0	97.4
600	108.0	88.9	114.0	126.2	120.0	150.4
700	124.0	128.7	131.0	163.6	137.0	215.9
800	140.0	180.1	148.0	228.7	156.0	300.8
900	160.0	235.1	169.0	300.7	178.0	398.5
1000	170.0	307.8	180.0	405.6	190.0	535.8
1100	185.0	391.1	196.0	509.9	205.0	702.4
1200	200.0	575.0	212.0	662.0	224.0	881.5
1400	230.0	739.0	246.0	994.0	258.0	1202
1600	260.0	1239.0	276.0	1409.0	292.0	1674
1800	290.0	1717.0	308.0	1858.0	326.0	2245
2000	320.0	2253.0	340.0	2407.0	386.0	2985

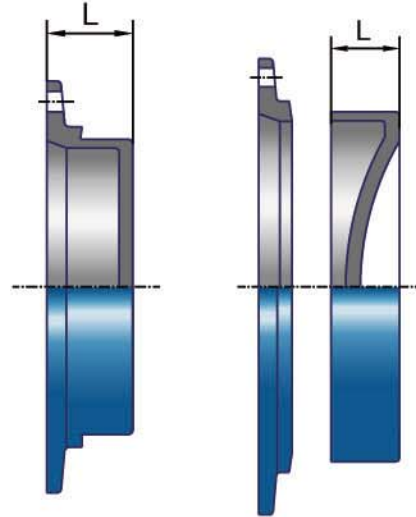
2、T-TYPE PLUG



DN80 ~ DN300

DN350 ~ DN1800

3、K-TYPE PLUGS



DN80 ~ DN300

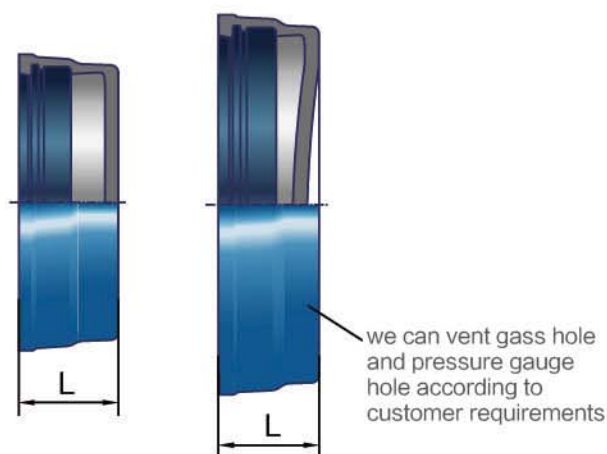
DN350 ~ DN2600

K=12

DN	L/mm	MASS/kg
80	190	3.3
100	200	4.6
125	212	7.0
150	225	9.5
200	250	14.8
250	250	21.5
300	275	33.5
350	275	45.5
400	275	56.0
450	275	68.5
500	275	81.0
600	300	123.0
700	320	170.0
800	330	220.0
900	350	298.0
1000	360	400.0
1100	380	520.0
1200	390	600.0
1400	410	850.0
1500	420	976.0
1600	450	1133.0
1800	480	1564.0

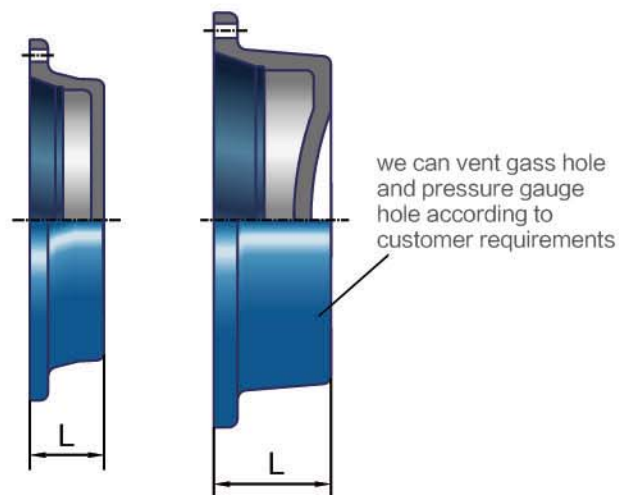
DN	L/mm	MASS/kg
100	87	5.7
150	88	8.8
200	89	13.0
250	90	17.6
300	95	25.2
350	96	32.7
400	100	42.9
450	105	52.5
500	105	63.6
600	110	87.7
700	125	166.0
800	130	250.0
900	130	333.0
1000	135	434.0
1100	136	553.0
1200	137	671.0
1400	140	710.0
1500	140	747.2
1600	160	816.0
1800	165	1123.0
2000	170	1515.0
2200	175	1808.0
2400	180	2340.0
2600	185	2870.0

4、T-TYPE CAPS



DN80 ~ DN300 DN350 ~ DN1800

5、K-TYPE CAPS



DN80 ~ DN300 DN350 ~ DN2600

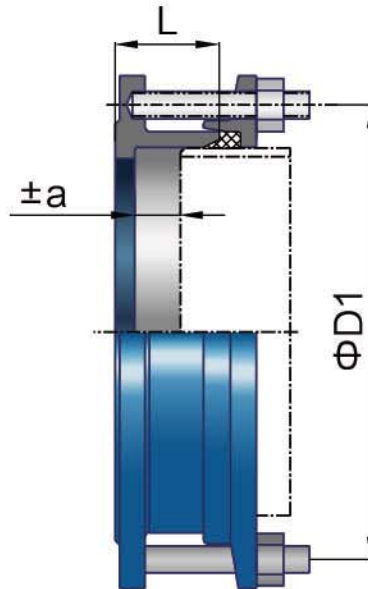
K=12

DN	L/mm	MASS/kg
80	103.0	7.3
100	106.0	8.5
125	109.0	11.3
150	112.0	14.1
200	118.0	19.8
250	124.5	27.4
300	133.0	42.8
350	134.0	61.7
400	135.0	76.3
450	146.0	93.7
500	147.0	107.0
600	149.5	132.0
700	181.0	202.0
800	193.0	275.0
900	210.0	353.0
1000	222.0	454.0
1100	239.0	493.3
1200	256.0	613.7
1400	282.0	1018.0
1500	294.0	1337.0
1600	307.0	1656.0
1800	348.0	2165.0

DN	L/mm	MASS/kg
80	90	6.5
100	90	8.5
125	90	10.4
150	90	12.3
200	92	18.4
250	92	22.0
300	122	34.0
350	122	47.3
400	122	56.0
450	122	69.5
500	125	83.0
600	125	138.0
700	138	170.0
800	138	225.0
900	138	300.0
1000	152	370.0
1100	152	475.0
1200	152	580.0
1400	155	1027.0
1500	160	1234.0
1600	190	1441.0
1800	205	1941.0
2000	215	2541.0
2200	230	2710.0
2400	295	2880.0
2600	310	3280.0

VI、 OTHER FITTINGS

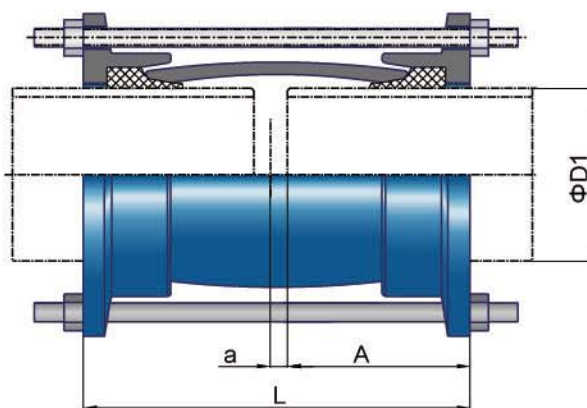
1、 SINGLE FLANGED EXPANSION JOINT



K=12

DN	a/mm	L/mm	ΦD1/mm			n/pcs			DIA			MASS/kg		
			PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
80	25	70	160	160	160	4	4	4	M16	M16	M16	8.0	8.0	8.0
100	25	70	180	180	190	4	4	4	M16	M16	M20	10.0	10.0	13.0
150	25	75	240	240	250	4	4	4	M20	M20	M24	15.0	15.0	18.0
200	25	75	295	295	310	4	6	6	M20	M20	M24	21.0	23.0	26.0
250	30	90	350	355	370	6	6	6	M20	M24	M27	25.0	27.0	31.0
300	30	90	400	410	430	6	6	8	M20	M24	M27	34.0	37.0	41.0
350	35	100	460	470	490	8	8	8	M20	M24	M30	42.0	45.0	50.0
400	35	100	515	525	550	8	8	8	M24	M27	M33	50.0	53.0	58.0
450	35	100	565	585	600	10	10	10	M24	M27	M33	55.0	59.0	65.0
500	40	114	620	650	660	10	10	10	M24	M30	M33	62.0	67.0	72.0
600	40	114	725	770	770	10	10	10	M27	M33	M36	104.0	110.0	116.0
700	40	130	840	840	875	12	12	12	M27	M33	M39	139.0	159.0	199.0
800	40	130	950	950	990	12	12	12	M30	M36	M45	166.0	181.0	246.0
900	40	130	1050	1050	1050	14	14	14	M30	M36	M45	220.0	250.0	320.0
1000	40	130	1160	1170	1210	14	14	14	M33	M39	M52	265.0	315.0	405.0
1100	40	130	1270	1270	1270	16	16	16	M33	M39	M52	293.5	354	462
1200	40	130	1380	1390	1420	16	16	16	M36	M45	M52	310.0	380.0	500.0
1400	50	150	1590	1590	1640	18	18	18	M39	M45	M56	420.0	615.0	730.3
1500	50	170	1700	1710	—	18	18	—	M39	M52	—	615.0	738.0	—
1600	50	180	1820	1820	—	20	20	—	M45	M52	—	700.0	855.0	—

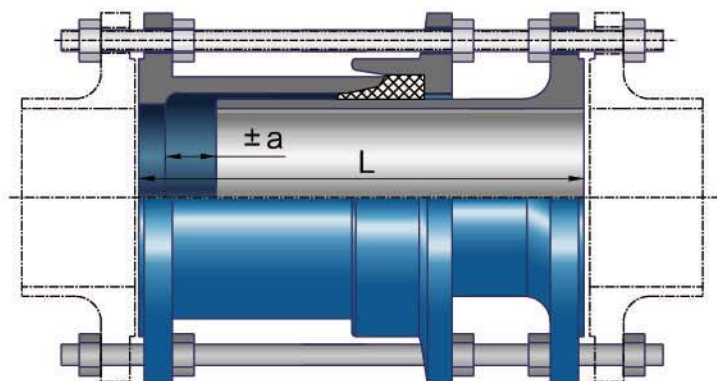
2、FLEXIBLE JOINT



K=12

DN	SIZE				Bolts		MASS/kg
	Φ D1/mm	L/mm	A/mm	a/mm	n/pcs	DIA	
80	98	96	40	15	4	M16	8.0
100	118	96	40	15	4	M16	10.0
150	170	96	40	15	4	M20	15.0
200	222	96	46	15	6	M20	21.0
250	274	116	50	15	6	M24	25.0
300	326	116	50	15	6	M24	34.0
350	378	134	50	20	8	M24	42.0
400	429	134	50	20	8	M27	50.0
450	480	134	50	20	10	M27	55.0
500	532	154	55	25	10	M30	62.0
600	635	174	60	25	10	M33	104.0
700	738	184	70	30	12	M33	133.0
800	842	184	70	30	12	M36	165.0
900	945	214	85	30	14	M36	219.0
1000	1048	244	92	30	14	M39	269.0
1100	1152	264	102	30	16	M39	313.0
1200	1255	274	107	30	16	M45	330.0
1400	1462	360	96	15	18	M24	368.0
1500	1565	470	118	25	18	M52	660.0
1600	1668	485	120	30	20	M45	736.0

3、DOUBLE FLANGED EXPANSION JOINT

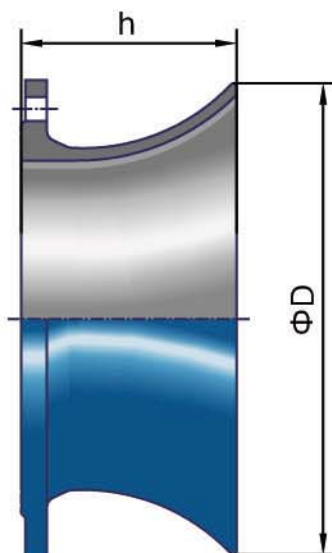


K=12

DN	a/mm	L/mm				MASS/kg			
		PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
80	25	200	200	210	210	16.0	16.0	21.0	21.0
100	25	200	200	220	220	20.0	20.0	33.0	33.0
150	25	200	200	230	230	25.0	25.0	42.0	42.0
200	25	220	220	230	240	34.0	34.0	53.0	53.0
250	30	220	230	250	260	48.0	48.0	74.0	90.0
300	30	220	250	250	280	65.0	74.0	102.0	140.0
350	35	230	260	270	290	72.0	92.0	131.0	192.0
400	35	230	270	280	340	94.0	126.0	193.0	253.0
450	35	250	270	280	340	122.0	162.0	246.0	362.0
500	40	260	280	300	380	140.0	190.0	280.0	433.0
600	40	260	300	320	390	152.0	240.0	324.0	501.0
700	40	335	335	335	—	205.0	330.0	432.0	—
800	40	335	335	335	—	256.0	366.0	571.0	—
900	40	355	355	355	—	352.0	482.0	801.0	—
1000	40	355	355	355	—	405.0	546.0	886.0	—
1100	40	365	365	365	—	459	668	1098	—
1200	40	375	375	375	—	484.0	715.0	1270.0	—
1400	50	380	380	—	—	918.0	1164.0	—	—
1500	50	—	450	—	—	—	1424.0	—	—
1600	50	—	450	—	—	—	1673.0	—	—

VII、ACCESSORIES

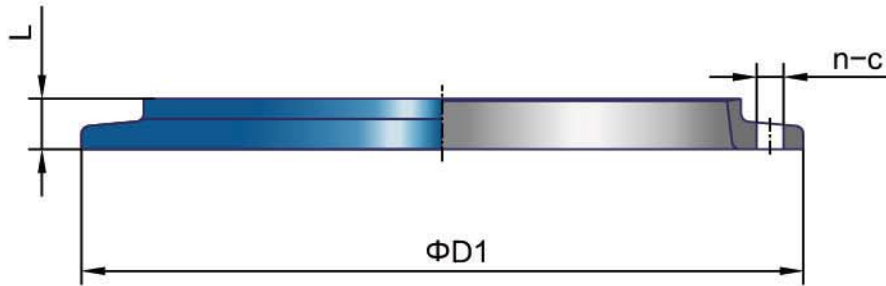
1、BELLMOUTH



K=12

DN	Φ D/mm	h/mm	MASS/kg		
			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	15.0	14.8	16.8
250	345	185	21.0	20.5	24.5
300	405	205	28.5	28.5	33.5
350	460	220	35.5	38.0	46.0
400	520	240	45.0	49.5	60.5
450	575	255	54.0	62.0	73.0
500	635	275	67.0	80.0	91.0
600	750	310	96.5	120.0	132.0
700	865	345	135.0	146.0	178.5
800	980	380	182.0	197.0	243.0
900	1095	415	231.0	250.0	306.0
1000	1210	450	297.0	331.0	403.6
1100	1320	485	380.6	427	501
1200	1440	520	457.0	512.0	602.7
1400	1670	590	646.0	702.0	841.7
1600	1900	660	906.0	995.0	1156.0
1800	2130	730	1185.0	1297.0	1514.0
2000	2360	800	1530.0	1668.0	1990.0

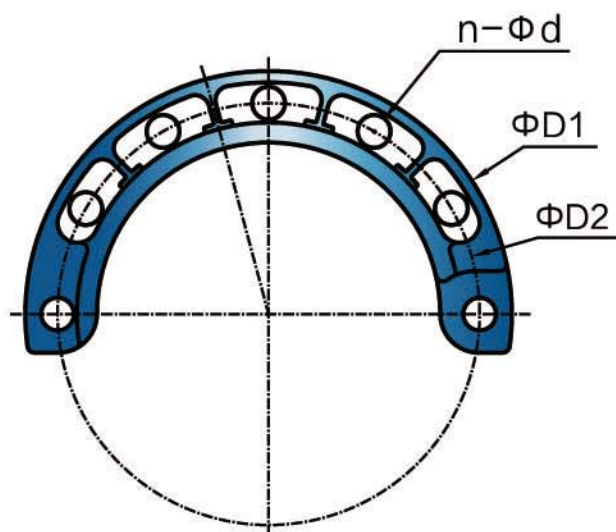
2、K-TYPE GLAND



K=12

DN	Φ D1/mm	L/mm	Bolts		MASS/kg
			n/pcs	c/mm	
100	234	35	4	23	4.1
150	288	36	6	23	5.7
200	341	37	6	23	7.5
250	395	38	8	23	9.5
300	455	39	8	23	12.2
350	508	40	10	23	14.6
400	561	41	12	23	17.2
500	667	43	14	23	22.9
600	773	44	14	23	28.5
700	892	45	16	27	38.6
800	999	47	20	27	47.4
900	1123	48	20	33	61.9
1000	1231	49	20	33	63.8
1100	1338	50	24	33	68.5
1200	1444	51	28	33	82.5
1400	1657	53	28	33	104.0
1500	1766	54	28	33	119.0
1600	1874	55	30	33	123.0
1800	2089	57	34	33	162.0
2000	2305	59	36	33	196.0
2200	2519	62	40	33	238.0
2400	2734	65	44	33	318.0
2600	2949	68	48	33	378.0

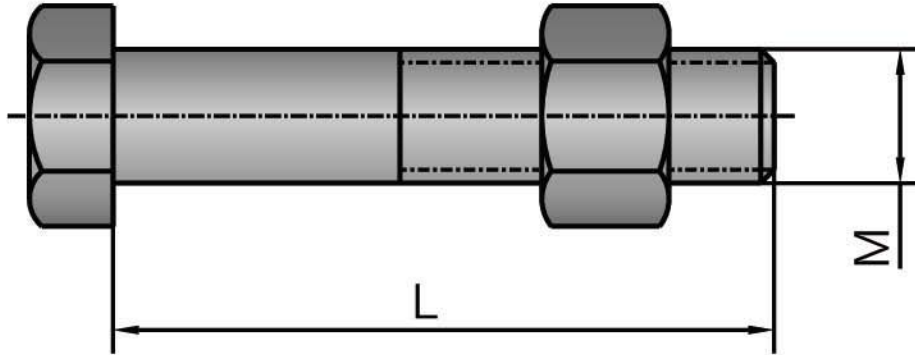
3、FLEXIBLE FLANGE



K=12

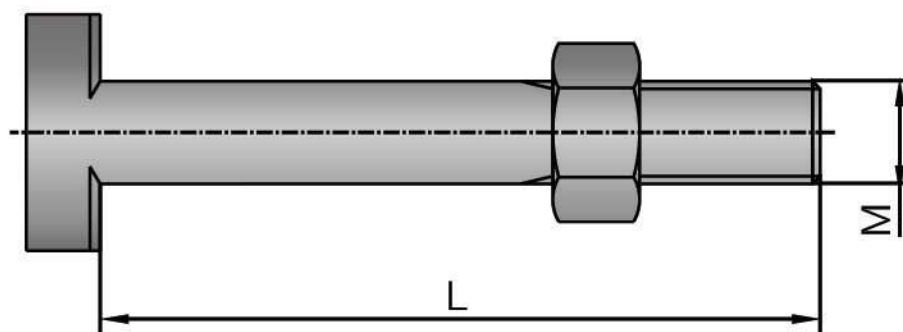
DN	Φ D1/mm		Φ D2/mm		Φ d/mm		n/pcs		MASS/kg	
	PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
80	200	200	160	160	19	19	5	5	3.8	3.8
100	220	220	180	180	19	19	5	5	4.2	4.2
150	285	285	240	240	23	23	5	5	7.4	7.4
200	340	340	295	295	23	23	5	7	8.4	8.4
250	400	400	350	355	23	28	7	7	10.3	10.0
300	455	455	400	410	23	28	7	7	12.7	12.2
400	565	580	515	525	28	31	9	9	20.0	22.2
500	670	715	620	650	28	34	11	11	26.9	38.4
600	780	840	725	770	31	37	11	11	43.7	68.0

4、BOLTS FOR FLANGES

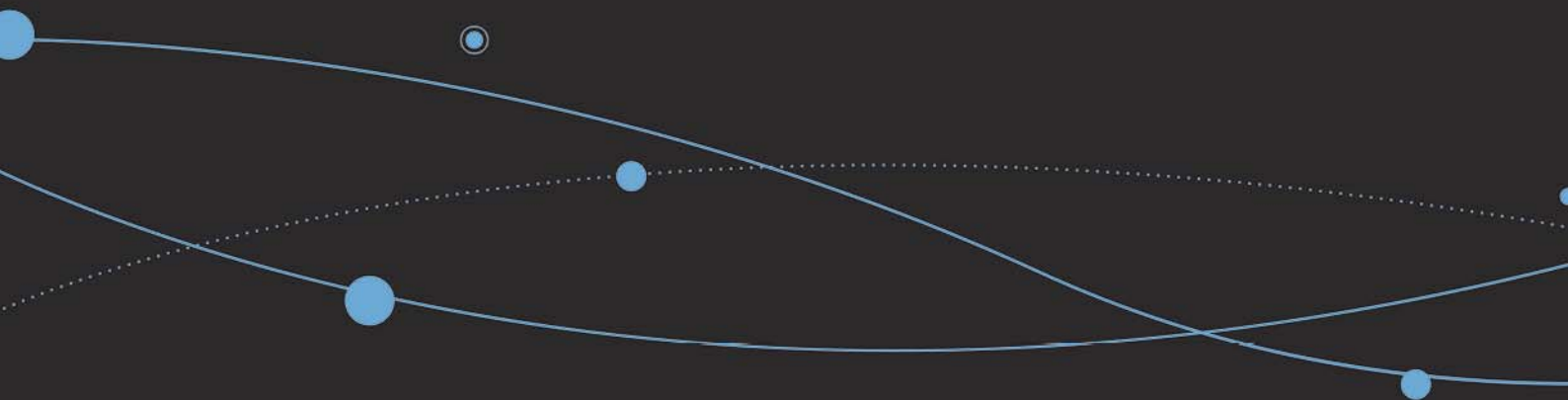


DN	PN10		PN16		PN25		PN40	
	n/pcs	M × L	n/pcs	M × L	n/pcs	M × L	n/pcs	M × L
80	8	M16 × 65	8	M16 × 65	8	M16 × 65	8	M16 × 65
100	8	M16 × 65	8	M16 × 65	8	M20 × 70	8	M20 × 70
125	8	M16 × 65	8	M16 × 65	8	M24 × 80	8	M24 × 80
150	8	M20 × 70	8	M20 × 70	8	M24 × 80	8	M24 × 90
200	8	M20 × 70	12	M20 × 70	12	M24 × 80	12	M27 × 100
250	12	M20 × 80	12	M24 × 90	12	M27 × 90	12	M30 × 110
300	12	M20 × 80	12	M24 × 90	16	M27 × 90	16	M30 × 120
350	16	M20 × 80	16	M24 × 90	16	M30 × 110	16	M33 × 130
400	16	M24 × 90	16	M27 × 100	16	M33 × 120	16	M36 × 140
450	20	M24 × 90	20	M27 × 100	20	M33 × 120	20	M36 × 150
500	20	M24 × 90	20	M30 × 110	20	M33 × 120	20	M39 × 150
600	20	M27 × 100	20	M33 × 120	20	M36 × 140	20	M45 × 170
700	24	M27 × 100	24	M33 × 120	24	M39 × 140	—	—
800	24	M30 × 110	24	M36 × 140	24	M45 × 160	—	—
900	28	M30 × 120	28	M36 × 140	28	M45 × 170	—	—
1000	28	M33 × 130	28	M39 × 150	28	M52 × 180	—	—
1100	32	M33 × 130	32	M39 × 160	32	M52 × 180	—	—
1200	32	M36 × 140	32	M45 × 170	32	M52 × 200	—	—
1400	36	M39 × 150	36	M45 × 180	36	M56 × 220	—	—
1500	36	M39 × 150	36	M52 × 190	36	M56 × 230	—	—
1600	40	M45 × 160	40	M52 × 190	40	M56 × 230	—	—
1800	44	M45 × 160	44	M52 × 200	44	M64 × 260	—	—
2000	48	M45 × 170	48	M56 × 220	48	M64 × 270	—	—
2200	52	M52 × 190	52	M56 × 230	—	—	—	—
2400	56	M52 × 200	56	M56 × 240	—	—	—	—
2600	60	M52 × 200	60	M56 × 250	—	—	—	—

5、BOLTS FOR K-TYPE JOINTS



DN	M×L	n/pcs
80	M16X85	4
100	M20X90	4
150	M20X90	6
200	M20X90	6
250	M20X90	8
300	M20X100	8
350	M20X100	10
400	M20X110	12
450	M20X110	12
500	M20X110	14
600	M20X120	14
700	M24X120	16
800	M24X120	20
900	M30X190	20
1000	M30X190	20
1100	M30X190	24
1200	M30X190	28
1400	M30X190	28
1600	M30X190	30
1800	M30X190	34
2000	M30X190	36



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