



RIYADH FOUNDRY
مسبك الرياض

Ductile Fittings





Riyadh Foundry is a pioneer leading company in metals casting industry In Saudi Arabia, established in Riyadh in 1976.

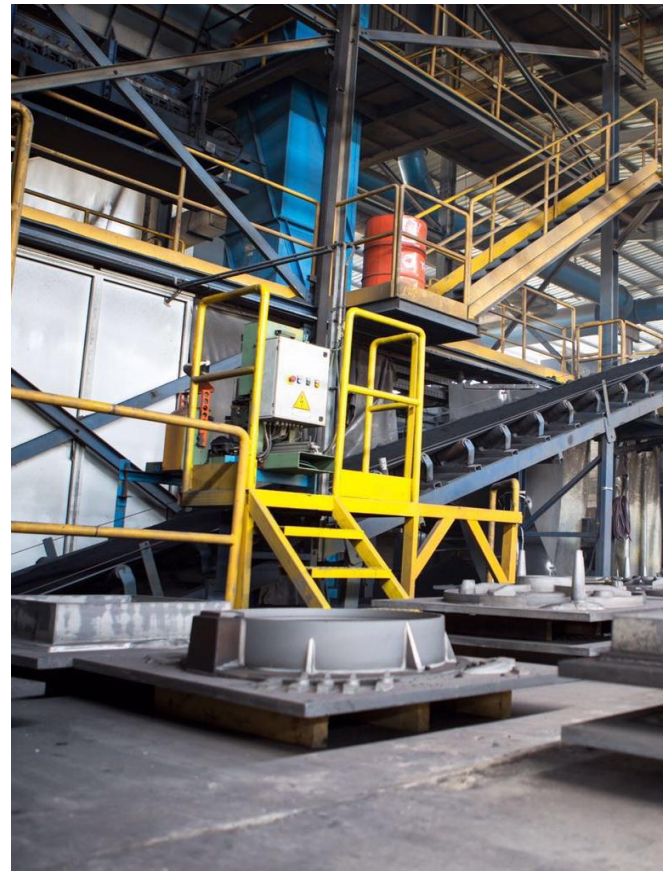
We use state-of-the-art technology and unique process capabilities to provide our customers with all casting choices.

Our professional team produces plus expertise to ensure that our precision casting solutions always meets customers' expectations.

Riyadh Foundry plays a dynamic role supporting the government's endeavors to expand the economy based on strong establishment and thriving support of national businesses.

Through development plans, the company has added additional production lines for Fiberglass, Plastic, Ductile Cast-Iron Pipe & Fittings which complies with local and international quality standards to meet all customer's requirements for the infrastructure construction sector.

We are dedicated to provide high-quality and comprehensive solutions to customers. Thanks to our extensive expertise and strict adherence to customer's requirement, our products are will know and sold worldwide. We have taken upon ourself excellence in work, speed in delivery and punctuality.



Vision

Achieving leadership in the foundry industry by providing the ideal products and raw materials according to local and international standards

Mission

To lead the development in the field of manufacturing and producing iron metal castings in Saudi Arabia. As well as strengthen our connection with our customers by the quick response

Values

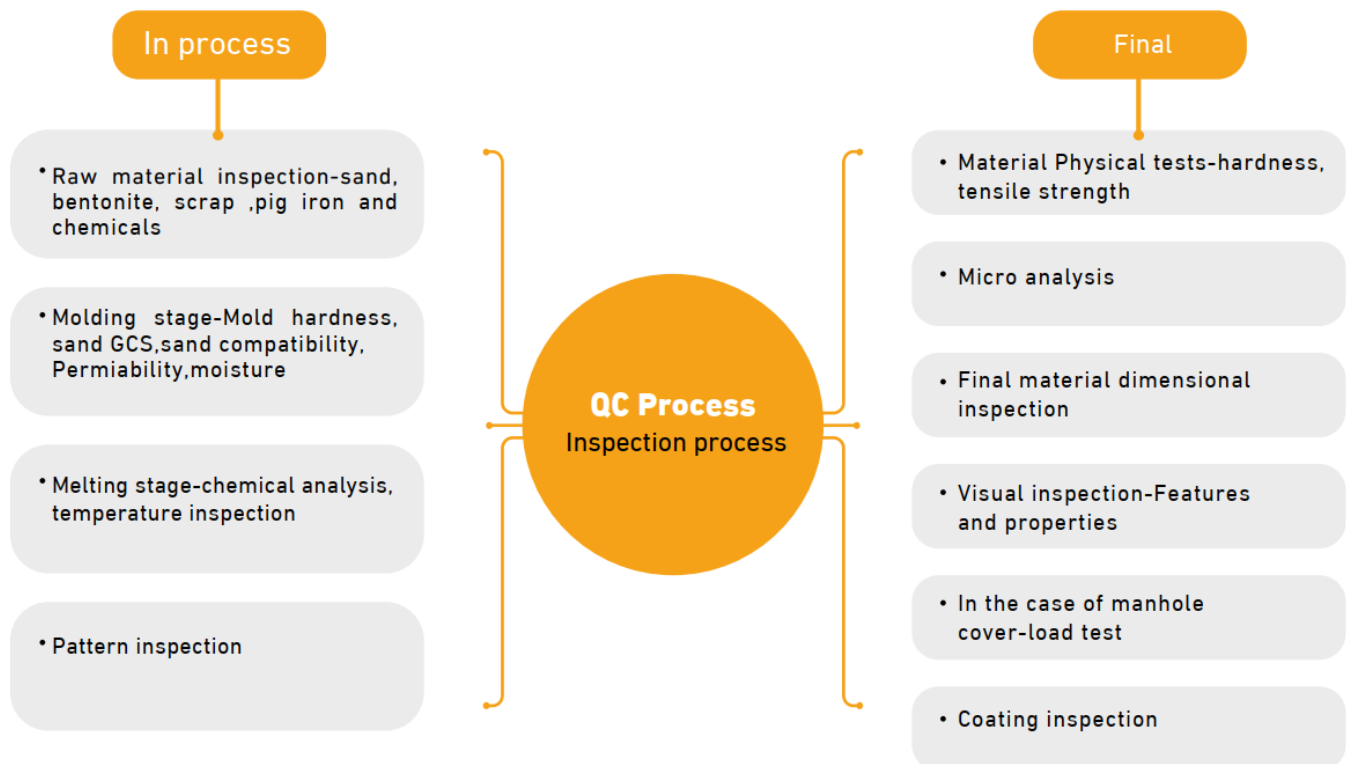


Seeking excellence by rewarding super - performing employees. Focusing on Development, Encouragement, Innovation and Creativity

QUALITY SYSTEM:

Our quality management system is based on ISO9001:2015 standard Throughout production - in progress quality, packing, dispatching and customer service.

Whether initiating a chemical analysis of the Metal and sand or testing the tensile strength and dimensional specification of our final output. We also certified SASO quality mark & BSI Kitemark.



CERTIFICATES

- All Fittings Products compatible with WRAS Approved Materials Standards.

- We also certified in the field of (Ductile Iron Pipes, Fittings, and Accessories) ISO 2531:2009 .
- Our company has following the quality management system ISO9001:2015.
- We also certified Environmental system ISO14001:2015
- We are the holder of BSI KITEMARK for some products against BSEN-124:1994.
- We also certified for SASO (Saudi Arabian Standard Organization) for quality mark.



APPROVALS

Riyadh Foundry is the approved supplier of Aramco projects, Ministry of water, Ministry of Sewer, Saudi Telecom, Riyadh Metro and etc.





- Vendor ID in Saudi Aramco 10013592
- Vendor ID in Saudi Electricity R3866
- Vendor ID in National Water Company 17436
- Vendor ID in Ministry of Housing 6201

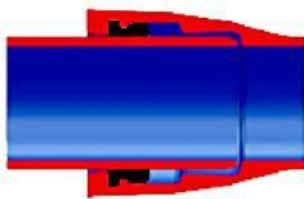
DI FITTING

Standard: EN545, EN598, ISO2531, EN1092-2, ISO7005-2, EN197-1, EN196-1, ISO4179, ISO16132, ISO8179-1, ISO8179-2, ISO8180, EN14901, EN681-1, ISO4633, EN1514, EN ISO4016, EN ISO4034, EN ISO7091, and other Normative References.

Type and joints

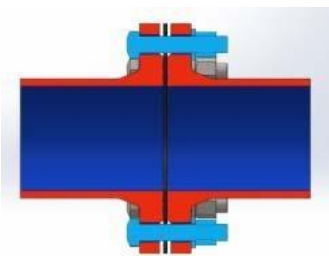
1. T-type socket

Push in flexible joint, non-restrained. Accessory: EPDM gasket



2. Flange

Accessory: EPDM, Bolts and nuts.



The Norminal Size and Norminal Pressure

1. T-type socket fitting. DN80-DN2000
2. Flange fitting, EPDM, Bolts and nuts. DN40-DN2000, PN10 PN16 PN25 PN40

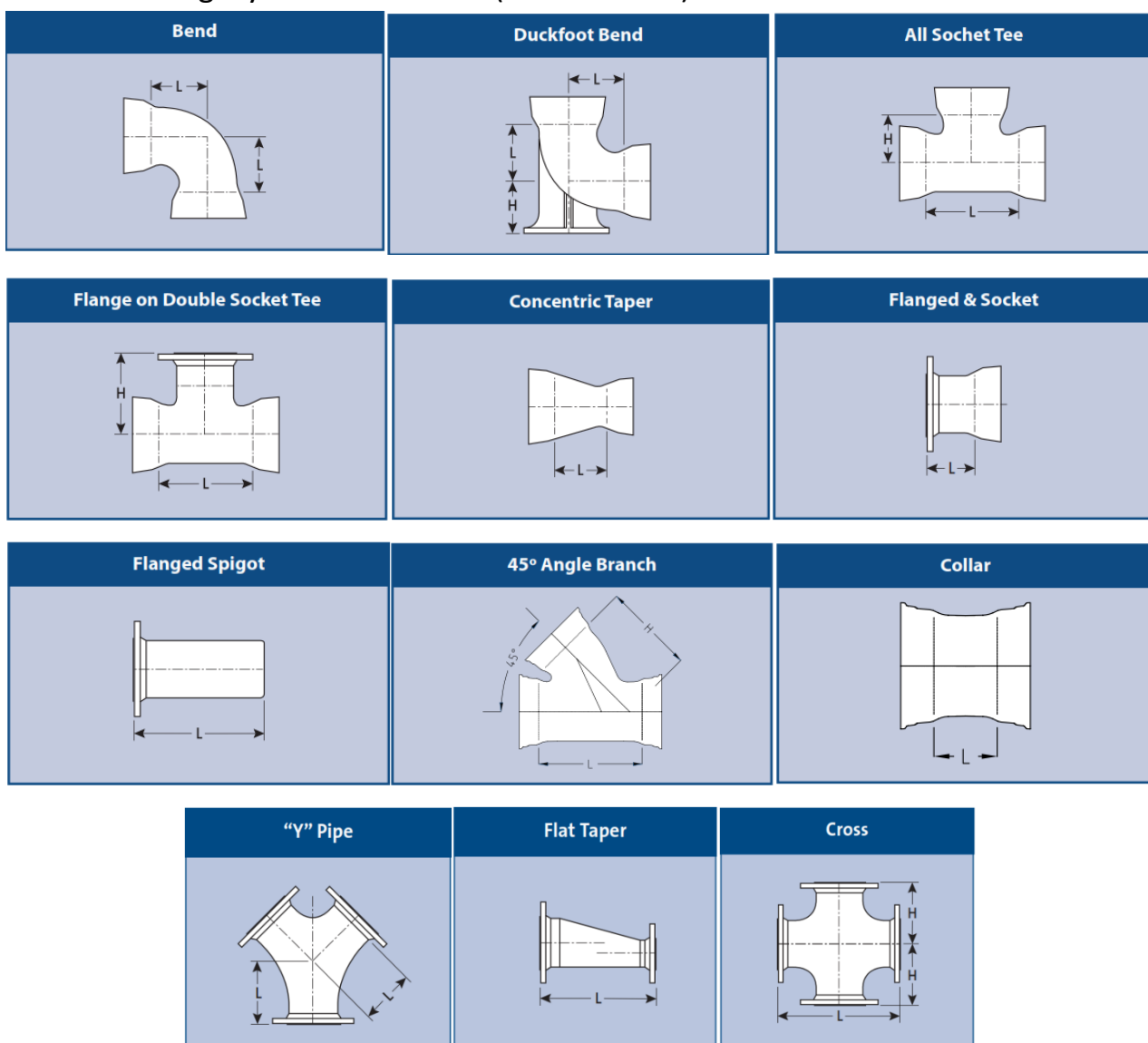
Lining and Coating

Lining type :

1. (ordinary portland) cement mortar
2. High-alumina cement mortar
3. epoxy (Blue, Red, Black)

Coating:

1. Zinc rich ($\geq 130\text{g}/\text{m}^2$)
2. finishing layer Black bitumen (≥ 70 microns)



Fabricated Pipe

Riyadh Foundry supplies fabricated pipes with welded flanges on Ductile Iron Pipes in accordance to ISO2531 & EN545. The maximum & minimum lengths of the pipes according to customer request .

Pipes with Puddle Flanges:

Puddle Flange Function : Problems keep on occurring when connecting pipes during construction work. Pipes laid in the ground must be introduced into concrete walls. In many cases, the presence of groundwater must be taken into account in these procedures. Standing water penetrates on the outer side of the pipes right into the building, requiring costly elimination of the leaks. Usage of puddle flanges may prevent the seepage of groundwater through the concrete walls.

Location of the Puddle Flange: Puddle flange is located in the middle of pipe length L unless stated in the order specifications







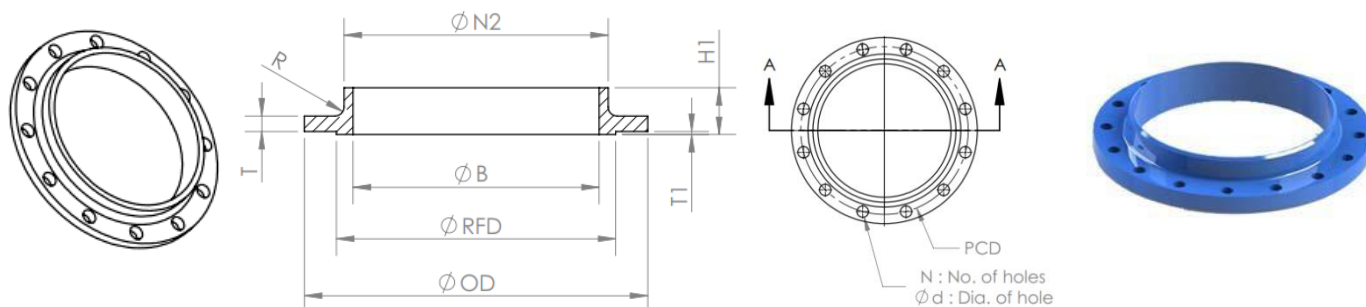
TECHNICAL DATA SHEET DUCTILE IRON Fittings

Material Datasheet of the Ductile Iron Fittings Manufactured by Riyadh Foundry Co			
Sr. No	Description	Unit	Specifications
1	Manufacturer:		
	Name of Manufacturer		Riyadh Foundry Co.
	Phone/Fax No. of Manufacturer		+966 11 266 4800
	Place of Manufacture (City & Country)		Saudi Arabia - Riyadh
2	Applicable Standards		
	DI Fittings Material		Ductile Iron pipe & Fittings ISO 2531 & BSEN 545
	Wall thickness calculation (e (iron) = K (0.5 + 0.001 DN)	mm	K12 , K 14 For DI Fittings according to BSEN545:2006 , ISO 2531:1998 & 2009
	Tolerance on Wall Thickness	mm	-(1.3 +0.001 DN) in mm
	Cement Lining		The cement mortar lining as per BSEN545 & ISO 4179
	Rubber gaskets for joints		EPDM Gaskets as per BSEN 681-1 & ISO 4633
3	Fitting class		
	Ductile Iron Fittings (ISO 2531 & BSEN545)		K12 & K 14
4	Type of pipe joints		Tyton (Push-on-joint), Restrained Joint
	a) Tyton (Push-on -Joint)	Deg	Minimum Deflection for DN 80-300 : 3°30'
			Minimum Deflection for DN 350-600 : 2°30'
			Minimum Deflection for DN 700-2200 : 1°30'
Tolerance to Joints		According to ISO 2531 / BSEN 545	
5	Rubber gasket material		As per EN 681-1 / ISO 4633
	Ductile Iron Pipes with Push-on-joint		EPDM Gaskets
6	Surface protection		
6.1	Internal protection (pipes)		
	Type of Lining		Cement Mortar Lining (WRAS approved)/ SRC
	Applicable Standard		As per BSEN 545 / ISO 4179
	Mortar mix ratio (by mass)		1 Part cement to < 2 & > 1.5 parts sand (by mass),



Material Datasheet of the Ductile Iron Fittings Manufactured by Riyadh Foundry Co			
Sr.	Description	Unit	Specifications
	Application method for DI Fittings		Casting
	Surface preparation		As per BSEN 545 / ISO 4179
	Average thickness of lining	mm	≤ DN 600 : 5.0 mm
			DN 700 to DN 1200 : 6.0 mm
	Min. thickness of lining at spot/one point	mm	≤ DN 600 : 3.5 mm
			DN 700 to DN 1200 : 4.5 mm
Tolerance on thickness (mm)	mm	Not less than minimum value at one point	
Finishing Coating / Optional		Blue Epoxy RAL-5017 manual coating above cement mortar lining to provide additional protection layer	
6.2	Internal socket ends of pipe		
	a) Type of coating		Zinc Rich Paint + Bitumen
			Zinc Rich paint with zinc content of 90% min.
	c) Applicable Standard		BSEN 545 / ISO 8179 (for Zinc)
	d) Method of Application		Manual
	e) Min. mass of zinc Layer	g/m ²	150 g/m ²
	f) Minimum Thickness of Bitumen	μ	120 microns
g) Total Average thickness	μ	120 microns	
6.3	External Protection		
	a) Pipe Body		
	<u>Zinc Layer</u>		Metallic Zinc with purity of 99.99%
	Method of application		Manual
	Surface Preparation		In accordance with BSEN 545 / ISO 8179 -1
	Min. thickness of zinc layer (g/m ² & microns)	g/m ²	130 or 200 g/m ² metallic zinc for pipes
	<u>Bituminous Layer</u>		
	Method of application		Manual
	Min. thickness of layer (microns)	μ	70 microns / 120 microns
	Applicable Standards		BSEN 545 / ISO 8179 & BS 3416
	b) External spigot ends of pipes		
	Type of coating		Metallic Zinc + Bitumen
	Method of Application		Spray
	Application Standards		BSEN 545 / ISO 8179-1 & BS 3416
Min. mass of zinc layer	g/m ²	150 g/m ²	
Minimum thickness of Bitumen Coating		120 microns	
7	Flange connection		ISO 2531 / EN 1092-2 , PN 16 , PN 25 &

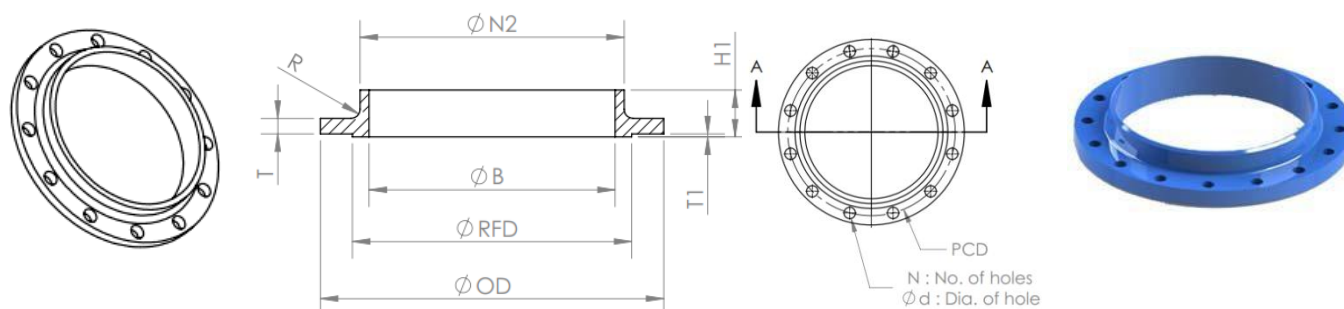
Welded Flange PN 16



S.No	Size	OD	PCD	RFD	T1	N	d	T	B	H1 (Ref)	N2 (Ref)	R
1	DN 80	200.0+3.0	160.0 +3.0	132.0 +0/-4.5	3.0 (Min 1.0 mm)	8	19.0 +1.5/-0	19+4.0/-3.0	98 +0/-1.0	50	120	6
2	DN 100	220.0 + 3.0	180.0 +3.0	156.0 +0/-4.5	3.0 (Min 1.0 mm)	8	19.0 +1.5/-0	19+4.0/-3.0	118 +0/-1.0	50	140	8
3	DN 150	285.0+3.0	240.0 +3.0	211.0 +0/-4.5	3.0 (Min 1.0 mm)	8	23.0 +1.5/-0	19+4.0/-3.0	170 +0/-1.0	50	195	10
4	DN 200	340.0 + 3.0	295.0 + 3.0	266.0 +0/-4.5	3.0 (Min 1.0 mm)	12	23.0 +1.5/-0	20+4.0/-3.0	222 +0/-1.0	55	246	10
5	DN 250	405.0+5.0	355.0 + 3.0	319.0 +0/-4.5	3.0 (Min 1.0 mm)	12	28.0 +1.5/-0	22+4.0/-3.0	274 +0 / 2.0	60	296	10
6	DN 300	455.0+5.0	410.0 + 4.0	370.0 +0/-4.5	4.0 (Min 1.0 mm)	12	28.0 +1.5/-0	24.5+4.0/- 3.0	326 +0/-3.0	62	350	12
7	DN 350	520.0+5.0	470.0 + 4.0	429.0 +0/-4.5	4.0 (Min 1.0 mm)	16	28.0 +1.5/-0	26.5+4.0/- 3.0	378 +0/-3.0	65	410	12
8	DN 400	580.0+5.0	525.0 + 4.0	480.0 +0/-5.0	4.0 (Min 1.0 mm)	16	31.0 +1.5/-0	28+4.0/-3.0	429 +0 / 4.0	70	458 2	12
9	DN 500	715.0+5.0	650.0 + 3.0	609.0 +0 /- 4.0	4.0 (Min 1.0 mm)	20	34.0 +1.5/-0	31.5+3.0/- 2.0	532 +0/-4.0	80	576+5	12
10	DN 600	840.0 + 5.0	770.0 +3.0	720.0 +0/-5.0	5.0 (Min 1.0 mm)	20	37.0 +1.5/-0	36+3.0/-2.0	635 +0/-4.0	100	665+5	12
11	DN 800	1025.0+5.0	950.0 + 4.0	901.0 +0/-5.0	5.0 (Min 1.0mm)	24	41.0 +2.0/-0	43+4.0/-3.0	842 +0 / 4.0	120	862+5	12
12	DN 900	1125.0+5.0	1050.0 + 4.0	1001.0 +0/-5.0	5.0 (Min 1.0 mm)	28	41.0 +2.0/-0	46.5+4.0/- 3.0	945+0/- 4.0	130	962+5	12
13	DN 1000	1255.0+5.0	1170.0 + 4.0	1115.0 +0/-5.0	5.0 (Min 1.0 mm)	28	44.0 +2.0/-0	50+4.0/-3.0	1048 +0 / 4.0	140	1076 2	12

All dimensions are in millimeter

Ductile Welding Flange PN 25

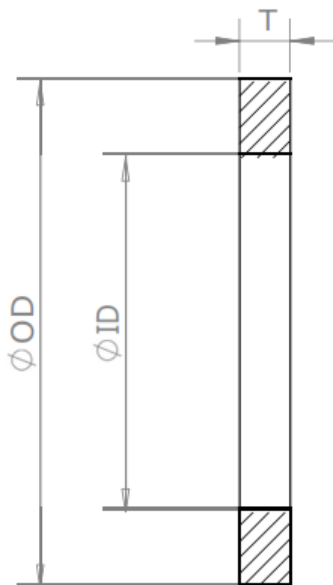


S. No	SIZE	OD	RFD	T	T1	PCD	N	d	B	N2	H1	R
1	80	200	132	16	3	160	8	19	98	120	40	6
2	100	235	156	16	3	190	8	23	118	142	44	6
3	125	270	184	16	3	220	8	28	144	162	48	6
4	150	300	211	17	3	250	8	28	170	192	52	8
5	200	360	274	19	3	310	12	28	222	252	52	8
6	250	425	330	21.5	3	370	12	31	274	304	60	10
7	300	485	389	23.5	4	430	16	31	326	364	67	10
8	350	555	448	26	4	490	16	34	378	418	72	10
9	400	620	503	28	4	550	16	37	429	472	78	10
10	450	670	548	30.5	4	600	20	37	480	520	84	12
11	500	730	609	32.5	4	660	20	37	532	580	90	12
12	600	845	720	37	5	770	20	40	635	684	100	12
13	700	960	820	41.5	5	875	24	43	738	780	110	12
14	800	1085	928	46	5	990	24	49	842	882	120	12
15	900	1185	1028	50.5	5	1090	28	49	945	982	130	12
16	1000	1320	1140	55	5	1210	28	56	1048	1086	140	12
17	1200	1530	1350	64	5	1420	32	56	1255	1296	155	12
18	1400	1755	1560	69	5	1640	36	62	1462	1508	165	12
19	1600	1975	1780	76	5	1860	40	62	1668	1726	185	12

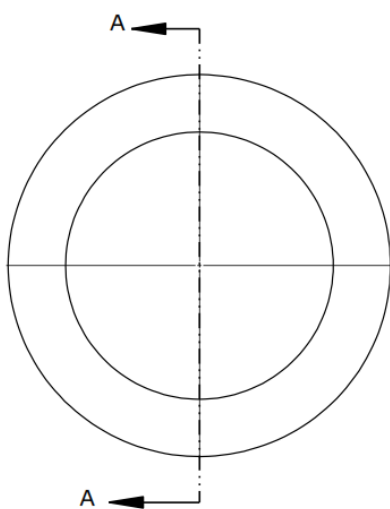


20	1800	2195	1985	83	5	2070	44	70	1875	1920	190	15
21	2000	2425	2210	90	5	2300	48	70	2082	2150	195	15

Puddle Flanges DN100 to DN 1200



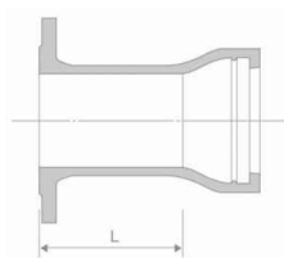
SIZE	OD	ID	T
DN - 100 PN 16	219	118	15
DN - 150 PN 16	283	170	15
DN - 200 PN 16	335	222	16
DN - 250 PN 16	398	273	21
DN - 300 PN 16	451	327	22
DN - 400 PN 16	576	430	24
DN - 500 PN 16	715	530	30
DN - 600 PN 16	840	635	28
DN - 700 PN 16	910	738	32
DN - 800 PN 16	1025	842	32
DN - 900 PN 16	1130	945	40
DN - 1200 PN 16	1255	1048	44



- All dimensions are in millimeter

The External Diameter of Puddle will be the Same as the external diameter of the main flange according of the related PN designation

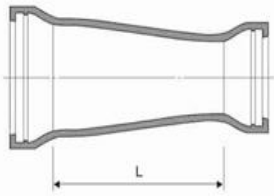
K Flange Socket



RF S. N.	DN	L (mm)	Mass (kg)					
			Tyton			K Type		
			PN10	PN16	PN25	PN10	PN16	PN25
E-80	80	130	7.6	7.6	7.6	9.6	9.6	9.6
E-100	100	130	9.1	9.1	9.1	11.4	11.4	12.4
E-125	125	135	11.9	11.9	12.5	13.8	13.8	14.4
E-150	150	135	14.2	14.2	15.2	16.7	16.7	17.7
E-200	200	140	20.5	20	22	22.7	22.7	24.5
E-250	250	145	30	32	33.3	30.7	30.3	34
E-300	300	150	37	36.5	42	45.4	45.1	50.3
E-350	350	155	45	48	56	52.9	55.7	63.6
E-400	400	160	55	60	71	62.2	68.7	77.9
E-450	450	165	66.5	86.2	87.5	72.8	82.1	92.5
E-500	500	170	78	93	104	85.7	100.1	110.5
E-600	600	180	108	135	149	114.6	139.6	152
E-700	700	190	144	159	216	161	176	211
E-800	800	200	189	235	287	206	225	274
E-900	900	210	262.5	284.1	356	257	281	341
E-1000	1000	220	328.3	366	458	307.3	345	417.6
E-1200	1200	240	496	554.3	664	456	521	664
E-1400	1400	310	759.4	820.3	960	654	723	882
E-1600	1600	330	1185	1278	1438	897	999	1176
E-1800	1800	350	1308	1421	1638	1137	1263	1503
E-2000	2000	370	--	--	--	1428	1581	1933
E-2200	2200	390	--	--	--	1783	1950	--
E-2400	2400	410	--	--	--	2140	2465	--
E-2600	2600	480	--	--	--	2679	3045	--



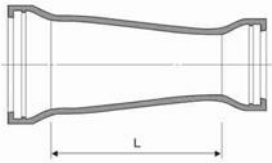
Double Socket Taper / Reducer MMR



RF S. N.	DN	dn	L (mm)	Mass (kg)	
				Tyton	K type
MMR-100x80	100	80	90	8.5	12.3
MMR-150x80	150	80	190	13.5	17.5
MMR-150x100		100	150	13.8	18.7
MMR-200x80	200	80	290	20.5	23
MMR-200x100		100	250	20.5	25.2
MMR-200x150		150	150	21	26
MMR-250x80	250	80	390	28.5	31
MMR-250x100		100	300	28.5	32.2
MMR-250x150		150	250	29	33.2
MMR-250x200		200	150	29	33
MMR-300x80	300	80	490	39	42.9
MMR-300x100		100	450	39	46.9
MMR-300x150		150	350	39.5	46.9
MMR-300x200		200	250	39.5	46.9
MMR-300x250		250	150	38.5	45.7
MMR-350x80	350	80	600	51.5	57.9
MMR-350x100		100	560	50	58.2
MMR-350x150		150	460	52	60.1
MMR-350x200		200	360	52	60.1
MMR-350x250		250	260	51	62.1
MMR-350x300		300	160	49.5	64.9
MMR-400x80	400	80	700	64	71.4
MMR-400x100		100	660	65	72.3
MMR-400x150		150	560	66.5	78.4
MMR-400x200		200	460	67	78.3
MMR-400x250		250	360	66	77.2
MMR-400x300		300	260	64	80.1
MMR-400x350		350	160	62	78

RF S. N.	DN	dn	L (mm)	Mass (kg)		
				Tyton	K	
MMR-450x80	450	80	760	87.9	88.5	
MMR-450x100		100	760	87.9	94.2	
MMR-450x150		150	660	88.9	95.3	
MMR-450x200		200	560	88.9	95.3	
MMR-450x250		250	460	89.2	94.2	
MMR-450x300		300	360	88.1	97.1	
MMR-450x350		350	260	86	95	
MMR-450x400		400	160	83.1	92	
MMR-500x80		500	80	900	101	109.8
MMR-500x100			100	860	101	106
MMR-500x150	150		760	102	114	
MMR-500x200	200		660	101	114	
MMR-500x250	250		560	101	113	
MMR-500x300	300		460	100	116	
MMR-500x350	350		360	98	115	
MMR-500x400	400		260	94	111	
MMR-500x450	450		160	99.5	106	
MMR-600x80	600		80	1100	152	153
MMR-600x100		100	1060	152	153	
MMR-600x150		150	960	153	159	
MMR-600x200		200	860	154	159	
MMR-600x250		250	760	153	158	
MMR-600x300		300	660	152	161	
MMR-600x350		350	560	151	159	
MMR-600x400		400	460	142	156	
MMR-600x450		450	360	149	151	
MMR-600x500		500	260	131	145	

Double Socket Taper / Reducer MMR

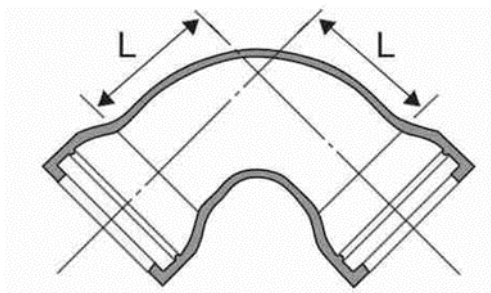


RF S. N.	DN	dn	L (mm)	Mass (kg)	
				Tyton	K type
MMR-700x200	700	200	1080	215.9	212.9
MMR-700x250		250	980	216.1	212.3
MMR-700x300		300	880	218.5	216.3
MMR-700x350		350	780	212.4	212.9
MMR-700x400		400	680	206.7	208.5
MMR-700x450		450	580	199.6	204.1
MMR-700x500		500	480	194	204
MMR-700x600		600	280	178	187
MMR-800x400	800	400	880	285	277.9
MMR-800x450		450	780	277.7	273.5
MMR-800x500		500	680	272.2	266.6
MMR-800x600		600	480	252	257
MMR-800x700		700	280	229	236
MMR-900x400		900	400	1080	387.4
MMR-900x450	450		980	372.2	362.2
MMR-900x500	500		880	366.8	355.4
MMR-900x600	600		680	349.4	336.7
MMR-900x700	700		480	337.4	327
MMR-900x800	800		280	312.7	294
MMR-1000x600	1000		600	880	476
MMR-1000x700		700	680	446.3	420.8
MMR-1000x800		800	480	392	403
MMR-1000x900		900	280	354	368

RF S. N.	DN	dn	L (mm)	Mass (kg)	
				Tyton	K
MMR-1200x600	1200	600	1280	745	691.8
MMR-1200x700		700	1080	729.6	669.1
MMR-1200x800		800	880	710.7	636
MMR-1200x900		900	680	674.3	599.3
MMR-1200x1000		1000	480	632.6	580
MMR-1400x600	1400	600	960	844.4	704.6
MMR-1400x700		700	860	855.6	705
MMR-1400x800		800	760	859.5	700.2
MMR-1400x900		900	660	862.8	697.7
MMR-1400x1100		1100	560	861.6	694.5
MMR-1400x1200		1200	360	862.2	698
MMR-1600x800		1600	800	960	1207
MMR-1600x900	900		860	1220	985.7
MMR-1600x1000	1000		760	1211	974.1
MMR-1600x1200	1200		560	1212	940.9
MMR-1600x1400	1400		360	1244	936
MMR-1800x1000	1800	1000	960	1547	1301
MMR-1800x1200		1200	760	1549	1269
MMR-1800x1400		1400	560	1581	1210
MMR-1800x1600		1600	360	1605	1235
MMR-2000x1000	2000	1000	1160	--	1696
MMR-2000x1200		1200	960	--	1663
MMR-2000x1400		1400	760	--	1605
MMR-2000x1600		1600	560	--	1560
MMR-2000x1800		1800	360	--	1566

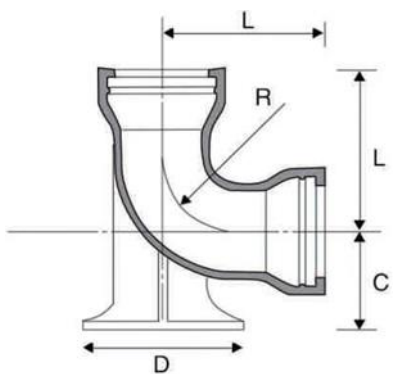


Double Socket 90° Bend MMQ



RF S. N	DN	d	L	Mass (kg)
		(mm)		K Type
MMQ-80	80	100	8.6	11.1
MMQ-100	100	120	11.4	16.2
MMQ-125	125	145	15.7	19.0
MMQ-150	150	170	20.5	25.5
MMQ-200	200	220	33.0	37.4
MMQ-250	250	270	48.5	51.3
MMQ-300	300	320	68.0	80.5
MMQ-350	350	370	98.4	109
MMQ-400	400	420	129	139
MMQ-450	450	470	163	172
MMQ-500	500	520	204	210
MMQ-600	600	620	303	300
MMQ-700	700	720	436	428
MMQ-800	800	820	595	572
MMQ-900	900	920	793	778
MMQ-1000	1000	1020	1045	986
MMQ-1200	1200	1220	1663	1624
MMQ-1400	1400	1220	2419	2419
MMQ-1600	1600	1290	3444	3014
MMQ-1800	1800	1320	4283	3833

Double Socket 90° Duckfoot Bend

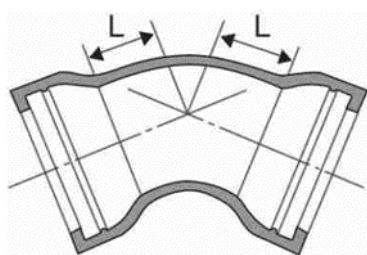


RF S. N	DN	L	C	D	Mass (kg)
		(mm)			K Type
EN-100	100	120	125	200	14.8
EN-150	150	170	160	250	28.5
EN-200	200	220	190	300	44.5
EN-250	250	270	225	350	68.5
EN-300	300	320	255	400	100
EN-350	350	370	290	450	133

EN-400	400	420	320	500	180
EN-450	450	470	355	550	230
EN-500	500	520	385	600	294
EN-600	600	620	450	700	442
EN-700	700	720	515	800	618
EN-800	800	820	580	900	832
EN-900	900	920	645	1000	1113
EN-1000	1000	1020	710	1100	1435
EN-1200	1200	1220	840	1300	2153



Double Socket 45° Bend MMQ



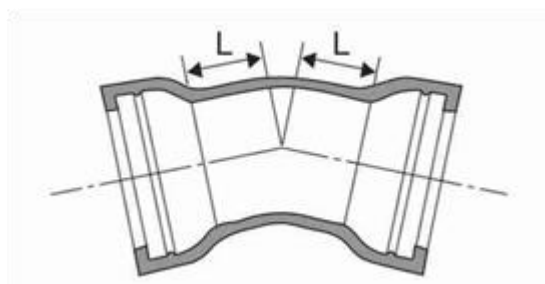
RF S. N	DN	d	L	Mass (kg)
		(mm)		K Type
MMK45-80	80	55	7.7	10.3
MMK45-100	100	65	10.1	14.9
MMK45-125	125	75	13.6	16.9
MMK45-150	150	85	17.4	22.5
MMK45-200	200	110	27	31.4
MMK45-250	250	130	38.5	41.3



MMK45-300	300	150	53	65.3
MMK45-350	350	170	70	80.5
MMK45-400	400	195	89	99.4
MMK45-450	450	220	123	132
MMK45-500	500	240	139	145.4
MMK45-600	600	285	202	198
MMK45-700	700	330	282	302
MMK45-800	800	370	378	395
MMK45-900	900	415	496	539
MMK45-1000	1000	460	635	734
MMK45-1200	1200	550	986	1109
MMK45-1400	1400	515	1509	1273
MMK45-1600	1600	565	2117	1740
MMK45-1800	1800	610	2615	2296



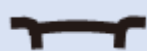
Double Socket 22.5° Bend MMQ



RF S. N	DN	d	L	Mass (kg)
		(mm)		K Type
MMK22-80	80	40	7.3	9.9
MMK22-100	100	40	9.3	14.1
MMK22-125	125	50	12.6	15.9
MMK22-150	150	55	15.9	21
MMK22-200	200	65	24	28.4

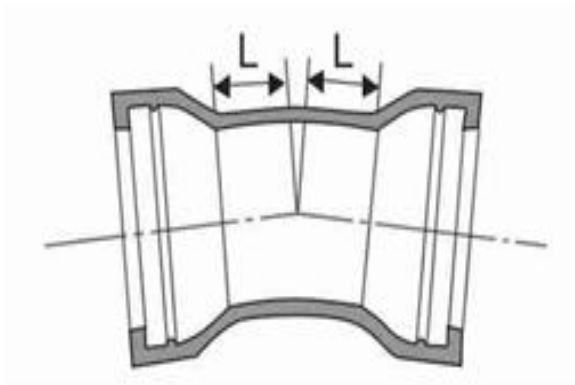


MMK22-250	250	75	33.5	36.3
MMK22-300	300	85	44.5	55.5
MMK22-350	350	95	58	68.4
MMK22-400	400	110	74	84.4
MMK22-450	450	120	102	110
MMK22-500	500	130	111	117.6
MMK22-600	600	150	157	154
MMK22-700	700	175	248	240
MMK22-800	800	195	331	308
MMK22-900	900	220	432	417
MMK22-1000	1000	240	550	469
MMK22-1200	1200	285	851	689
MMK22-1400	1400	260	1241	857
MMK22-1600	1600	280	1628	1198
MMK22-1800	1800	305	2037	1588



Double Socket 11.25° Bend MMQ

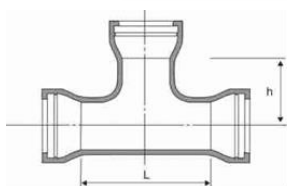
RF S. N	DN	d	L	Mass (kg)
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		(mm)		K Type
MMK11-80	80	30	7.1	9.7
MMK11-100	100	30	8.9	13.7
MMK11-125	125	35	11.9	15.2
MMK11-150	150	35	14.8	18.2
MMK11-200	200	40	22	26.4
MMK11-250	250	50	30.5	33.3
MMK11-300	300	55	40.5	53.4
MMK11-350	350	60	52	62.6
MMK11-400	400	65	65	75.4
MMK11-450	450	70	91.9	100
MMK11-500	500	75	96	102.7
MMK11-600	600	85	134	135.4
MMK11-700	700	95	216	208
MMK11-800	800	110	286	263
MMK11-900	900	120	374	359
MMK11-1000	1000	130	473	473
MMK11-1200	1200	150	724	541
MMK11-1400	1400	130	1047	672
MMK11-1600	1600	140	1376	1007
MMK11-1800	1800	155	1704	1331



All Socket Tee

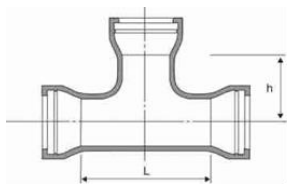


RF S. N.	DN	dn	L	h	Mass (kg)	
			(mm)	(mm)	Tyton	K type
MMB-80x80	80	80	170	85	12.4	17.7
MMB-100x80	100	80	170	95	14.8	21.5
MMB-100x100		100	190	95	16.1	23.2
MMB-125x80	125	80	170	105	17.6	22.8
MMB-125x100		100	195	110	19	24.8
MMB-125x125		125	225	110	22	26.9
MMB-150x80	150	80	170	120	21.5	29.2
MMB-150x100		100	195	120	23.5	31
MMB-150x125		125	230	125	25.8	33.3
MMB-150x150		150	255	125	28	35.6
MMB-200x80	200	80	175	145	30	37.9
MMB-200x100		100	200	145	32	38.8
MMB-200x125		125	230	145	34.5	41.4
MMB-200x150		150	255	150	37	44
MMB-200x200		200	315	155	48	49.6
MMB-250x80		250	80	175	165	40.2
MMB-250x100	100		200	165	42.8	47.9
MMB-250x125	125		230	175	46	49.1
MMB-250x150	150		260	175	51.1	56.4
MMB-250x200	200		315	180	55.9	60.9
MMB-250x250	250		375	185	64.1	67.4
MMB-300x80	300	80	180	190	51.5	65.4
MMB-300x100		100	200	195	54.2	67.4
MMB-300x125		125	240	200	65.2	71.7
MMB-300x150		150	260	200	64.3	77.6
MMB-300x200		200	320	205	69.9	82.9
MMB-300x250		250	375	210	79.9	92.1
MMB-300x300		300	435	215	86.2	102

RF S. N.	DN	dn	L	h	Mass (kg)	
			(mm)	(mm)	Tyton	K type
MMB-350x80	350	80	180	215	63.6	74.5
MMB-350x100		100	205	220	67.2	80
MMB-350x125		125	240	225	71.7	83.6
MMB-350x150		150	265	225	79.6	92.6
MMB-350x200		200	320	230	84.9	97.5
MMB-350x250		250	380	235	96.9	109
MMB-350x300		300	435	240	106	122
MMB-350x350		350	495	245	116	131
MMB-400x80	400	80	185	240	76.1	87.1
MMB-400x100		100	210	245	82.2	95
MMB-400x125		125	240	250	89.5	102.5
MMB-400x150		150	265	240	96.7	110
MMB-400x200		200	325	255	102	115
MMB-400x250		250	380	260	116	128
MMB-400x300		300	440	265	126	142
MMB-400x350		350	500	270	137	152
MMB-400x400		400	555	275	150	166
MMB-450x80		450	80	185	265	101
MMB-450x100	100		210	270	106	116
MMB-450x125	125		240	270	111	121
MMB-450x150	150		270	275	116	126
MMB-450x200	200		325	280	127	137
MMB-450x250	250		385	285	138	147
MMB-450x300	300		445	290	149	163
MMB-450x350	350		500	295	161	175
MMB-450x400	400		560	300	173	186
MMB-450x450	450		615	305	186	198



All Socket Tee

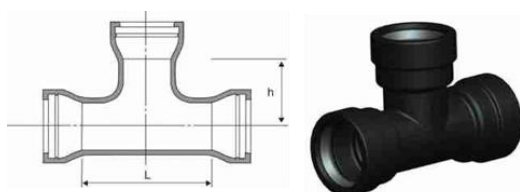


RF S. N.	DN	dn	L (mm)	h (mm)	Mass (kg)	
					Tyton	K type
MMB-500x80	500	80	190	290	110	116.8
MMB-500x100		100	215	295	115	123
MMB-500x125		125	245	300	126	134
MMB-500x150		150	270	300	137	145
MMB-500x200		200	330	305	141	149
MMB-500x250		250	390	310	161	168
MMB-500x300		300	445	315	174	185
MMB-500x350		350	505	320	187	198
MMB-500x400		400	560	325	199	210
MMB-500x450		450	620	330	214	224
MMB-500x500	500	680	340	234	242	
MMB-600x80	600	80	195	340	165	165
MMB-600x100		100	220	345	169	168
MMB-600x125		125	250	350	177	176
MMB-600x150		150	280	350	185	184
MMB-600x200		200	335	355	188	187
MMB-600x250		250	395	360	215	213
MMB-600x300		300	450	365	231	233
MMB-600x350		350	510	370	246	248
MMB-600x400		400	570	375	258	260
MMB-600x450		450	625	380	280	281
MMB-600x500	500	685	390	296	296	
MMB-600x600	600	800	400	343	338	
MMB-700x80	700	80	205	395	217	207
MMB-700x100		100	230	395	224	215
MMB-700x125		125	260	400	232.5	223.5
MMB-700x150		150	285	400	241	232
MMB-700x200		200	345	405	259	250
MMB-700x250		250	400	410	277	267
MMB-700x300		300	460	420	297	290
MMB-700x350		350	520	425	317	310
MMB-700x400		400	575	430	337	329
MMB-700x450		450	635	435	361	350
MMB-700x500	500	690	440	380	370	
MMB-700x600	600	810	450	430	416	
MMB-700x700	700	925	460	486	470	

RF S. N.	DN	dn	L (mm)	h (mm)	Mass (kg)	
					Tyton	K type
MMB-800x80	800	80	210	445	278	254
MMB-800x100		100	235	445	287	264
MMB-800x125		125	260	450	297	274
MMB-800x150		150	290	450	307	284
MMB-800x200		200	350	455	330	305
MMB-800x250		250	410	460	352	328
MMB-800x300		300	465	470	374	353
MMB-800x350		350	525	475	398	376
MMB-800x400		400	580	480	420	398
MMB-800x450		450	640	485	448	422
MMB-800x500	500	700	490	472	447	
MMB-800x600	600	815	500	526	497	
MMB-800x700	700	930	510	586	556	
MMB-800x800	800	1045	525	655	618	
MMB-900x80	900	80	215	495	349	322
MMB-900x100		100	240	495	360	333
MMB-900x125		125	270	500	373	346
MMB-900x150		150	300	500	386	359
MMB-900x200		200	355	505	410	382
MMB-900x250		250	415	510	437	408
MMB-900x300		300	470	515	462	438
MMB-900x350		350	530	525	490	464
MMB-900x400		400	590	530	518	491
MMB-900x450		450	645	535	547	518
MMB-900x500	500	705	540	574	546	
MMB-900x600	600	820	550	635	602	
MMB-900x700	700	935	560	700	667	
MMB-900x800	800	1050	570	774	733	
MMB-900x900	900	1170	585	858	815	
MMB-1000x80	1000	80	225	545	433	434
MMB-1000x100		100	245	545	443	445
MMB-1000x125		125	275	550	459	460
MMB-1000x150		150	305	550	474	475
MMB-1000x200		200	360	555	502	503
MMB-1000x250		250	420	560	533	533
MMB-1000x300		300	480	570	564	568
MMB-1000x350		350	535	575	594	597
MMB-1000x400		400	595	580	626	628
MMB-1000x450		450	650	585	659	658
MMB-1000x500	500	710	590	690	690	
MMB-1000x600	600	825	600	758	754	
MMB-1000x700	700	940	610	831	825	
MMB-1000x800	800	1060	625	913	901	
MMB-1000x900	900	1175	635	1000	985	
MMB-1000x1000	1000	1290	645	1096	1096	



All Socket Tee

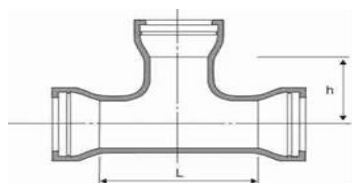


RF S. N.	DN	dn	L		h		Mass (kg)	
			(mm)	(mm)	Tyton	KType	Tyton	KType
MMB-1800x80	1800	80	270	945	--	1340	--	1340
MMB-1800x100		100	295	945	--	1373	--	1373
MMB-1800x150		150	350	950	--	1446	--	1446
MMB-1800x200		200	410	955	1897	1449	--	1449
MMB-1800x250		250	470	960	1980	1531	--	1531
MMB-1800x300		300	525	970	2063	1680	--	1680
MMB-1800x350		350	585	975	--	1759	--	1759
MMB-1800x400		400	640	980	2208	1831	--	1831
MMB-1800x450		450	700	985	--	1911	--	1911
MMB-1800x500		500	760	990	2353	1989	--	1989
MMB-1800x600		600	875	1000	2526	2139	--	2139
MMB-1800x700		700	990	1010	--	2295	--	2295
MMB-1800x800		800	1105	1025	2835	2373	--	2373
MMB-1800x900		900	1220	1035	--	2612	--	2612
MMB-1800x1000		1000	1340	1045	3173	2703	--	2703
MMB-1800x1200		1200	1570	1065	3543	3037	--	3037
MMB-1800x1400	1400	1800	1090	3983	3387	--	3387	
MMB-1800x1600	1600	2035	1110	4473	3809	--	3809	
MMB-1800x1800	1800	2265	1135	4958	4285	--	4285	

RF S. N.	DN	dn	L		h		Mass (kg)	
			(mm)	(mm)	Tyton	KType	Tyton	KType
MMB-2000x80	2000	80	280	1045	--	1710	--	1710
MMB-2000x100		100	305	1045	--	1744	--	1744
MMB-2000x150		150	365	1050	--	1838	--	1838
MMB-2000x200		200	420	1055	--	1924	--	1924
MMB-2000x250		250	480	1060	--	2020	--	2020
MMB-2000x300		300	540	1070	--	2117	--	2117
MMB-2000x350		350	600	1075	--	2204	--	2204
MMB-2000x400		400	655	1080	--	2205	--	2205
MMB-2000x450		450	710	1085	--	2386	--	2386
MMB-2000x500		500	770	1090	--	2479	--	2479
MMB-2000x600		600	885	1100	--	2660	--	2660
MMB-2000x700		700	1000	1110	--	2845	--	2845
MMB-2000x800		800	1120	1125	--	3035	--	3035
MMB-2000x900		900	1235	1135	--	3226	--	3226
MMB-2000x1000		1000	1350	1145	--	3437	--	3437
MMB-2000x1200		1200	1580	1165	--	3846	--	3846
MMB-2000x1400		1400	1815	1190	--	4244	--	4244
MMB-2000x1600		1600	2045	1210	--	4695	--	4695
MMB-2000x1800		1800	2280	1235	--	5218	--	5218
MMB-2000x2000		2000	2510	1255	--	5787	--	5787



All Socket Tee

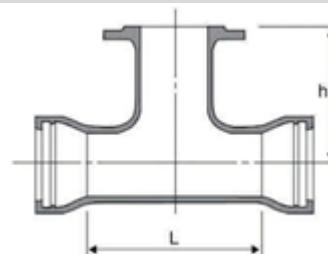


RF S. N.	DN	dn	L	h	Mass (kg)
			(mm)	(mm)	K Type
MMB-2200x200	2200	200	430	1160	2252
MMB-2200x250		250	490	1160	2369
MMB-2200x300		300	550	1170	2487
MMB-2200x400		400	670	1180	2717
MMB-2200x500		500	780	1190	2906
MMB-2200x600		600	900	1200	3126
MMB-2200x800		800	1130	1220	3552
MMB-2200x1000		1000	1360	1245	3998
MMB-2200x1200		1200	1590	1270	4453
MMB-2200x1400		1400	1830	1290	4916
MMB-2200x1600		1600	2060	1310	5433
MMB-2200x1800		1800	2290	1330	5974
MMB-2200x2000		2000	2520	1355	6573
MMB-2200x2200		2200	2750	1380	7230
MMB-2400x200		2400	200	450	1260
MMB-2400x250	250		500	1260	3073
MMB-2400x300	300		560	1270	3210
MMB-2400x400	400		680	1280	3478
MMB-2400x500	500		790	1290	3700
MMB-2400x600	600		910	1300	3957
MMB-2400x800	800		1140	1320	4452
MMB-2400x1000	1000		1370	1345	4965
MMB-2400x1200	1200		1610	1370	5497
MMB-2400x1400	1400		1840	1390	6013
MMB-2400x1600	1600		2070	1410	6589
MMB-2400x1800	1800		2300	1430	7185
MMB-2400x2000	2000		2530	1455	7832
MMB-2400x2200	2200		2770	1480	8558

RF S. N.	DN	dn	L	h	Mass (kg)
			(mm)	(mm)	K Type
MMB-2600x200	2600	200	460	1360	3551
MMB-2600x250		250	520	1360	3708
MMB-2600x300		300	570	1370	3840
MMB-2600x400		400	690	1380	4149
MMB-2600x500		500	810	1390	4432
MMB-2600x600		600	920	1400	4704
MMB-2600x800		800	1150	1420	5273
MMB-2600x1000		1000	1390	1445	5885
MMB-2600x1200		1200	1620	1470	6466
MMB-2600x1400		1400	1850	1490	7051
MMB-2600x1600		1600	2080	1510	7692
MMB-2600x1800		1800	2310	1530	8351
MMB-2600x2000		2000	2545	1555	9081
MMB-2600x2200		2200	2780	1580	9835
MMB-2600x2400		2400	3010	1600	10743
MMB-2600x2600	2600	3240	1620	11545	



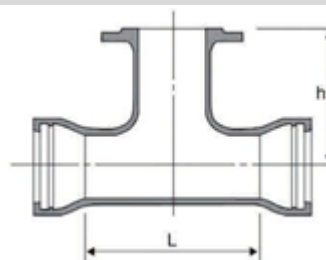
Double Socket Tee with Flanged Branch



RF S. N.	DN	dn	L	h	Mass (kg)					
					Tyton			K Type		
					PN10	PN16	PN25	PN10	PN16	PN25
MMA-80x80	80	80	170	160	13.5	13.5	13.5	---	---	---
MMA-100x80	100	80	170	175	15.8	15.8	15.8	20	20	20
MMA-100x100		100	190	180	17.2	17.2	17.7	22	22	22
MMA-125x80	125	80	170	190	19.4	19.4	19.4	23	23	23
MMA-125x100		100	195	195	21	21	21.5	24.6	24.5	25.1
MMA-125x125		125	225	200	23	23	24	26.8	26.8	27.4
MMA-150x80	150	80	170	205	23	23	23	28	28	28
MMA-150x100		100	195	210	24.5	24.5	25	29.5	29.5	29.5
MMA-150x125		125	230	215	27.1	27.5	27.7	32.1	32.1	32.7
MMA-150x150		150	255	220	29.5	29.5	30.5	34.5	34.5	34.5
MMA-200x80	200	80	175	235	31.5	31.5	31.5	36	36	36
MMA-200x100		100	200	240	33.5	33.5	34	38	38	38
MMA-200x125		125	235	240	36.2	36.2	36.8	39.2	39.2	39.8
MMA-200x150		150	255	250	39	39	40	43.4	43.4	43.4
MMA-200x200		200	315	260	45.6	46	47.5	50	50.4	52
MMA-250x80	250	80	175	265	44	44	44	46.6	45.6	45.6
MMA-250x100		100	200	270	43.5	43.5	44	46	46	46.5
MMA-250x125		125	230	275	47.7	47.7	48.3	49.1	49.1	49.7
MMA-250x150		150	260	280	56.5	56.6	57.6	59	59	60
MMA-250x200		200	315	290	57	57	59	60	60	62
MMA-250x250		250	375	300	67.4	67.1	70.7	68.8	68.6	72.1
MMA-300x80	300	80	180	295	72.9	72.96	72.96	78.48	78.48	78.48
MMA-300x100		100	200	300	64.2	64.2	64.7	68.8	68.8	69.3
MMA-300x125		125	230	300	80.4	80.4	81.12	85.92	85.92	86.64
MMA-300x150		150	260	310	71.2	71.2	72.1	79	79	80
MMA-300x200		200	320	320	77.9	77.9	79.7	82.5	82.5	84.3
MMA-300x250		250	375	330	87.8	87.4	94.1	94	92	96
MMA-300x300		300	435	340	98.7	98.4	103.6	103.3	103	108.2



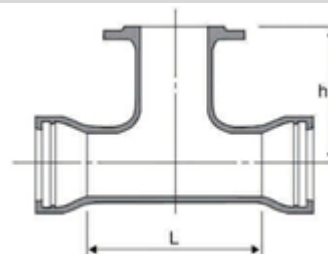
Double Socket Tee with Flanged Branch



RF S. N.	DN	dn	L	h	Mass (kg)					
					Tyton			K Type		
					PN10	PN16	PN25	PN10	PN16	PN25
MMA-350x80	350	80	185	325	76.32	76.32	76.32	91.2	91.2	91.2
MMA-350x100		100	205	330	68	68	68	78	78	78
MMA-350x125		125	230	330	84.24	84.24	84.96	99.12	99.12	99.84
MMA-350x150		150	265	340	82.3	81.3	82.3	93	93	93
MMA-350x200		200	320	350	86	86	88	96	96	98
MMA-350x250		250	380	360	103	114	125	114	124	135
MMA-350x300		300	435	370	111	118	129	122	128	139
MMA-350x350		350	495	380	117	120	129	127	130	139
MMA-400x80	400	80	185	355	90.24	90.24	90.24	105.36	105.36	105.36
MMA-400x100		100	210	360	83	83	83	93	93	93
MMA-400x125		125	230	360	103.44	103.44	104.04	114.36	114.36	115.08
MMA-400x150		150	265	370	98	98	98	108	108	108
MMA-400x200		200	325	380	103	102	104	113	113	114
MMA-400x250		250	380	390	119	118	122	127	128	132
MMA-400x300		300	440	400	131	131	137	141	141	147
MMA-400x350		350	500	410	143	146	153	153	156	163
MMA-400x400	400	555	420	150	156	167	160	166	167	
MMA-450x100	450	100	210	390	107	107	108	115	115	116
MMA-450x125		125	230	390	112.56	112.56	113.28	134.16	134.16	134.88
MMA-450x150		150	270	400	119	119	120	127	127	128
MMA-450x200		200	325	410	130	129	132	138	138	140
MMA-450x250		250	385	420	141	140	144	149	149	153
MMA-450x300		300	445	430	154	154	160	162	162	168
MMA-450x350		350	500	440	166	169	178	174	177	186
MMA-450x400		400	560	450	179	185	196	188	193	204
MMA-450x450	450	615	460	191	200	216	200	209	224	



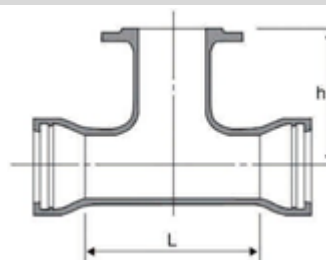
Double Socket Tee with Flanged Branch



RF S. N.	DN	dn	L	h	Mass (kg)					
					Tyton			K Type		
					PN10	PN16	PN25	PN10	PN16	PN25
MMA-500x80	500	80	190	400	123.84	123.84	123.84	142.08	142.08	142.08
MMA-500x100		100	215	420	116	116	117	122	122	122
MMA-500x125		125	240	420	136.56	136.56	137.28	154.8	154.8	155.52
MMA-500x150		150	270	430	137	137	139	145	145	145
MMA-500x200		200	330	440	141	141	143	146	147	149
MMA-500x250		250	390	450	165	165	149	172	171	177
MMA-500x300		300	445	460	179	179	184	182	185	190
MMA-500x350		350	505	470	193	195	203	198	201	210
MMA-500x400		400	565	480	199	205	216	205	211	222
MMA-500x450		450	620	490	220	228	244	226	235	250
MMA-500x500		500	680	500	232	247	259	238	253	265
MMA-600x80		600	80	195	460	167.4	167.4	167.4	182.52	182.52
MMA-600x100	100		220	480	171	171	171	167	167	168
MMA-600x125	125		240	465	181.56	181.56	182.28	196.68	196.68	197.4
MMA-600x150	150		280	490	187	187	188	182	182	183
MMA-600x200	200		340	500	189	189	191	185	185	188
MMA-600x250	250		395	510	219	218	222	215	215	218
MMA-600x300	300		450	520	235	235	240	231	231	236
MMA-600x350	350		510	530	252	255	263	247	251	260
MMA-600x400	400		570	540	258	263	274	254	259	270
MMA-600x450	450		625	550	285	293	309	281	289	305
MMA-600x500	500		685	560	304	309	331	301	305	327
MMA-600x600	600		800	580	340	366	380	336	363	376



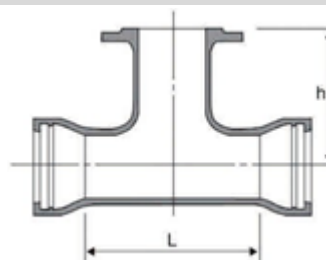
Double Socket Tee with Flanged Branch



RF S. N.	DN	dn	L (mm)	h	Mass (kg)					
					Tyton			K Type		
					PN10	PN16	PN25	PN10	PN16	PN25
MMA-700x80	700	80	210	490	250.56	250.56	250.56	227.76	227.76	227.76
MMA-700x100		100	230	510	242	242	243	243	243	244
MMA-700x125		125	250	495	265.8	265.8	266.52	243	243	243.72
MMA-700x150		150	285	515	246	246	247	246	246	247
MMA-700x200		200	345	525	252.4	252.4	254.4	249	249	251
MMA-700x300		300	460	540	300	300	306	301	301	307
MMA-700x350		350	520	545	312	315	324	313	316	325
MMA-700x400		400	575	555	320	325	344	329	334	345
MMA-700x450		450	635	560	369	378	391	370	379	392
MMA-700x500		500	690	570	391	406	418	392	407	419
MMA-700x600		600	810	585	421	445	456	422	445	457
MMA-700x700	700	925	600	460	475	525	476	488	525	
MMA-800x80	800	80	240	550	339.6	339.6	339.6	307.2	307.2	307.2
MMA-800x100		100	235	570	304	304	305	295	295	295
MMA-800x125		125	290	555	361.68	361.68	362.4	330	330	330.72
MMA-800x150		150	290	580	308	308	309	298	298	299
MMA-800x200		200	350	585	321.5	321.5	323.5	302	301	303
MMA-800x250		250	410	590	351	351	355	342	341	346
MMA-800x300		300	465	600	371	371	377	362	362	368
MMA-800x400		400	580	615	412.2	418.7	427.9	396	401	412
MMA-800x500		500	700	630	522	537	549	513	528	540
MMA-800x600		600	815	645	579	605	624	579	603	614
MMA-800x700		700	930	660	620	635	669	611	626	660
MMA-800x800	800	1045	675	645.8	663.5	709.5	631	646	699	



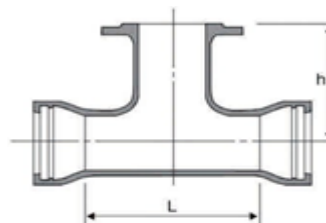
Double Socket Tee with Flanged Branch



RF S. N.	DN	dn	L	h	Mass (kg)					
					Tyton			K Type		
					PN10	PN16	PN25	PN10	PN16	PN25
MMA-900x80	900	80	240	605	430.08	430.08	430.08	384.48	384.48	384.48
MMA-900x100		100	240	630	378	378	378	365	365	366
MMA-900x125		125	290	615	457.44	457.44	458.16	411.84	411.84	412.56
MMA-900x150		150	300	635	381	381	382	368	368	369
MMA-900x200		200	355	645	406.9	407	408.8	371	371	373
MMA-900x300		300	470	660	455	455	461	442	442	448
MMA-900x400		400	590	675	515.1	521.6	530.8	484	488	499
MMA-900x500		500	705	690	666	681	693	653	668	690
MMA-900x600		600	820	705	748	774	784	745	769	783
MMA-900x700		700	935	720	788	803	837	775	790	824
MMA-900x800		800	1050	735	808	823	876	795	810	863
MMA-900x900		900	1170	750	851.6	873.2	929.2	822	841	907
MMA-1000x80		1000	80	240	670	527.16	527.16	527.16	476.76	476.76
MMA-1000x100	100		245	690	461	461	462	461	461	462
MMA-1000x125	125		290	675	558.84	558.84	559.56	508.44	508.44	509.16
MMA-1000x150	150		305	695	461	464	465	464	464	465
MMA-1000x200	200		360	705	498.3	498.4	500.2	467	467	469
MMA-1000x250	250		420	710	521	521	525	521	521	525
MMA-1000x300	300		480	720	552	552	558	552	552	558
MMA-1000x400	400		595	735	623.8	630.3	639.5	598	603	614
MMA-1000x500	500		710	750	852	867	879	852	867	879
MMA-1000x600	600		825	765	947	973	994	958	982	994
MMA-1000x700	700		940	780	985	1000	1032	985	1000	1032
MMA-1000x800	800		1060	795	1006	1021	1074	1006	1021	1074
MMA-1000x900	900		1175	810	1052	1076	1137	1052	1076	1137
MMA-1000x1000	1000	1290	825	1044	1086	1192	1072	1106	1192	



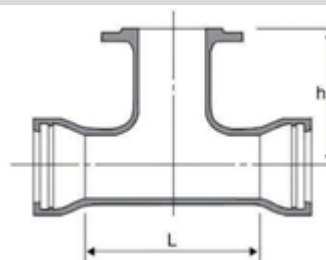
Double Socket Tee with Flanged Branch



RF S. N.	DN	dn	L	h	Mass (kg)					
					Tyton			K Type		
					PN10	PN16	PN25	PN10	PN16	PN25
MMA-1100x80	1100	80	240	730	647.64	647.64	647.64	560.28	560.28	560.28
MMA-1100x100		100	260	730	658.68	658.68	629.28	571.32	571.32	571.92
MMA-1100x125		125	290	735	680.76	680.76	681.48	593.4	593.4	594.12
MMA-1100x150		150	310	740	696	696	697.2	608.64	608.64	609.84
MMA-1100x200		200	360	745	733.2	733.2	735.36	645.84	645.84	648
MMA-1100x250		250	420	755	778.68	778.2	782.64	691.32	690.84	695.28
MMA-1100x300		300	480	760	824.04	823.68	829.92	736.68	736.32	742.56
MMA-1100x350		350	530	770	860.88	864.24	873.72	773.52	776.88	786.36
MMA-1100x400		400	600	795	915.36	923.16	934.2	828	835.8	846.84
MMA-1100x450		450	650	795	951.72	962.88	975.36	864.36	875.52	888
MMA-1100x500		500	700	795	990.96	1008.24	1020.72	903.6	920.88	933.36
MMA-1100x600	600	830	825	1099.08	1129.1	1143.96	1011.72	1041.72	1056.6	
MMA-1200x80	1200	80	240	790	782.28	782.28	782.28	647.88	647.88	647.88
MMA-1200x100		100	260	810	676	676	676	676	676	676
MMA-1200x125		125	290	795	824.52	824.52	825.24	690.12	690.12	690.84
MMA-1200x150		150	310	800	842.16	842.16	843.24	707.76	707.76	708.84
MMA-1200x200		200	375	825	682	682	684	682	682	684
MMA-1200x300		300	490	840	769	769	775	769	769	775
MMA-1200x400		400	605	855	852	856	867	852	856	867
MMA-1200x500		500	720	870	968	973	995	968	973	995
MMA-1200x600		600	840	885	1074	1099	1112	1031	1055	1067
MMA-1200x700		700	955	900	1169	1184	1218	1169	1184	1218
MMA-1200x800		800	1070	915	1264	1281	1327	1227	1242	1295
MMA-1200x900		900	1185	930	1367	1427	1452	1367	1427	1452
MMA-1200x1000		1000	1300	945	1436	1470	1556	1436	1470	1556
MMA-1200x1200	1200	1535	975	1682	1736	1846	1682	1736	1846	



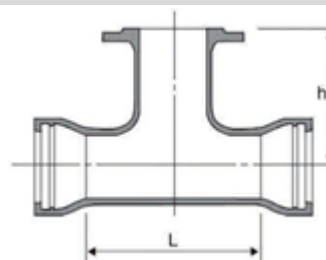
Double Socket Tee with Flanged Branch



RF S. N.	DN	dn	L	h	Mass (kg)					
					Tyton			K Type		
					PN10	PN16	PN25	PN10	PN16	PN25
MMA-1400x80	1400	80	340	870	1292.4	1292.4	1292.4	941.76	941.76	941.76
MMA-1400x100		100	450	905	1120	1120	1120	1120	1120	1120
MMA-1400x125		125	450	880	1162	1162	1162	869	869	869.6
MMA-1400x150		150	480	880	1188	1188	1189	895.2	895.2	896.2
MMA-1400x200		200	565	920	1240	1240	1242	948	948	950
MMA-1400x300		300	680	935	1338	1388	1343	1046	1046	1051
MMA-1400x400		400	800	950	1442	1449	1458	1150	1156	1166
MMA-1400x500		500	915	965	1540	1554	1564	1247	1262	1272
MMA-1400x600		600	1030	980	1681	1706	1718	1389	1414	1426
MMA-1400x800		800	1260	1010	1908	1926	1972	1616	1634	1680
MMA-1400x1000		1000	1495	1040	2155	2193	2266	1863	1901	1973
MMA-1400x1200		1200	1725	1070	2398	2457	2547	2106	2164	2255
MMA-1400x1400		1400	1960	1100	2686	2747	2887	2394	2455	2595
MMA-1600x200		1600	200	580	1030	1748	1748	1750	1318	1318
MMA-1600x250	250		635	1040	1810	1809	1813	1380	1379	1383
MMA-1600x300	300		695	1045	1876	1876	1881	1446	1446	1451
MMA-1600x400	400		810	1060	2002	2008	2017	1572	1578	1587
MMA-1600x500	500		925	1075	2129	2143	2154	1699	1713	1724
MMA-1600x600	600		1040	1090	2260	2285	2297	1908	1934	1967
MMA-1600x800	800		1275	1120	2811	2829	2875	2381	2399	2445
MMA-1600x1000	1000		1505	1150	2824	2862	2935	2480	2522	2594
MMA-1600x1200	1200		1740	1180	3146	3205	3295	2799	2863	2954
MMA-1600x1400	1400		1970	1210	3478	3539	3679	3048	3109	3249
MMA-1600x1600	1600		2200	1240	3883	3975	4135	3453	3545	3705



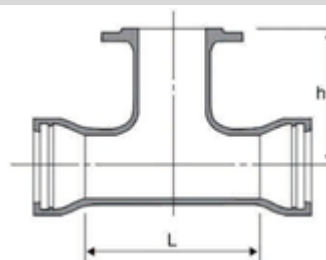
Double Socket Tee with Flanged Branch



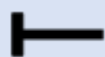
RF S. N.	DN	dn	L	h	Mass (kg)					
					Tyton			K Type		
					PN10	PN16	PN25	PN10	PN16	PN25
MMA-1600x200	1800	200	595	1150	2146	2146	2148	1697	1697	1699
MMA-1600x250		250	650	1150	2220	2220	2224	1771	1771	1774
MMA-1600x300		300	705	1155	2295	2294	2300	1846	1845	1850
MMA-1600x400		400	820	1170	2448	2454	2463	1998	2005	2014
MMA-1600x500		500	940	1185	2608	2623	2633	2159	2174	2184
MMA-1600x600		600	1055	1200	2766	2791	2803	2414	2440	2453
MMA-1600x800		800	1285	1230	3092	3109	3155	2748	2767	2813
MMA-1600x1000		1000	1520	1260	3434	3472	3545	3095	3137	3210
MMA-1600x1200		1200	1750	1290	3798	3856	3947	3460	3524	3614
MMA-1600x1400		1400	1980	1320	4173	4233	4373	3723	3784	3924
MMA-1600x1600		1600	2215	1350	4617	4710	4870	4168	4260	4421
MMA-1600x1800		1800	2445	1380	5075	5188	5405	4626	4739	4956
MMA-2000x200	2000	200	600	1250	--	--	--	2117	2117	2119
MMA-2000x250		250	660	1260	--	--	--	2214	2214	2218
MMA-2000x300		300	720	1270	--	--	--	2312	2311	2317
MMA-2000x400		400	835	1290	--	--	--	2496	2502	2511
MMA-2000x500		500	950	1305	--	--	--	2681	2695	2705
MMA-2000x600		600	1065	1310	--	--	--	2988	3015	3028
MMA-2000x800		800	1300	1340	--	--	--	3231	3248	3294
MMA-2000x1000		1000	1530	1370	--	--	--	3790	3832	3904
MMA-2000x1200		1200	1760	1400	--	--	--	4014	4072	4163
MMA-2000x1400		1400	1995	1430	--	--	--	4645	4713	4852
MMA-2000x1600		1600	2225	1460	--	--	--	4892	4984	5144
MMA-2000x1800		1800	2460	1490	--	--	--	5367	5480	5697
MMA-2000x2000	2000	2690	1520	--	--	--	5999	6136	6458	



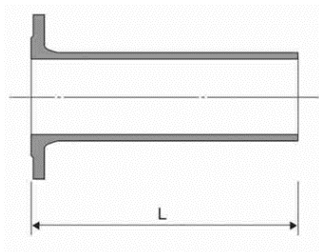
Double Socket Tee with Flanged Branch



RF S. N.	DN	dn	L	h	Mass (kg)					
					Tyton			K Type		
					PN10	PN16	PN25	PN10	PN16	PN25
MMA-2200x200	2200	200	615	1360	---	---	---	3171.6	3171.6	3174
MMA-2200x250		250	670	1370	---	---	---	3304.8	3303.6	3308.4
MMA-2200x300		300	730	1380	---	---	---	3446.4	3446.4	3452.4
MMA-2200x400		400	845	1395	---	---	---	3717.6	3726	3736.8
MMA-2200x500		500	960	1410	---	---	---	3958.8	3976.8	3988.8
MMA-2200x600		600	1080	1420	---	---	---	4376.4	4408.8	4424.4
MMA-2400x200	2400	200	625	1470	---	---	---	4074	4074	4076.4
MMA-2400x250		250	685	1480	---	---	---	4242	4240.8	4245.6
MMA-2400x300		300	740	1490	---	---	---	4394.4	4393.2	4399.2
MMA-2400x400		400	860	1505	---	---	---	4724.4	4732.8	4743.6
MMA-2400x500		500	980	1520	---	---	---	5042.4	5059.2	5071.2
MMA-2400x600		600	1090	1530	---	---	---	5330.4	5360.4	5376
MMA-2600x200	2600	200	640	1580	---	---	---	4882.8	4882.8	4885.2
MMA-2600x250		250	695	1590	---	---	---	5060.4	5060.4	5064
MMA-2600x300		300	755	1600	---	---	---	5245.2	5251.2	5257.2
MMA-2600x400		400	870	1615	---	---	---	5618.4	5625.6	5636.4
MMA-2600x500		500	985	1630	---	---	---	5968.8	5985.6	5997.6
MMA-2600x600		600	1100	1640	---	---	---	6318	6348	6363.6



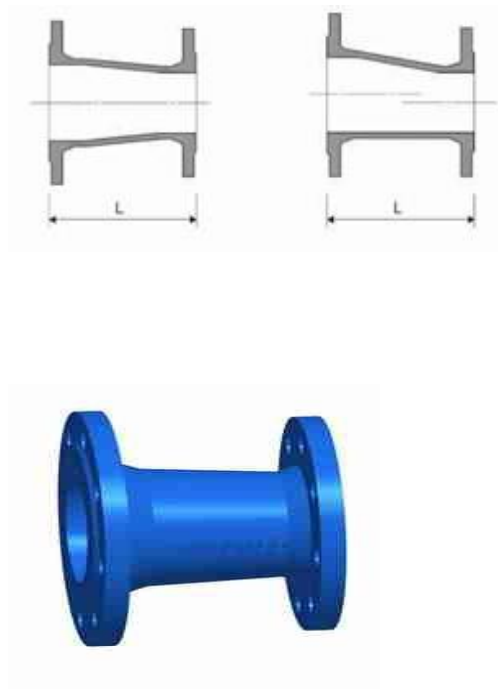
Flange Spigot



RF S. N.	DN	L (mm)	Mass (kg)		
			PN10	PN16	PN25
F-80x350	80	350	7.8	7.8	7.8
F-100x360	100	360	9.6	9.6	10.2
F-125x370	125	370	12.4	12.4	13
F-150x380	150	380	15.6	15.6	16.6
F-200x400	200	400	22.5	22.5	24.5
F-250x420	250	420	32	31.5	35.5
F-300x440	300	440	43	42.5	47.5
F-350x460	350	460	52	55	64
F-400x480	400	480	64	70	81
F-450x500	450	500	79	88	103
F-500x520	500	520	94	109	121
F-600x560	600	560	133	159	173
F-700x600	700	600	179	197	228
F-800x600	800	600	226	245	294
F-900x600	900	600	272	295	356
F-1000x600	1000	600	328	369	447
F-1200x600	1200	600	456	520	620
F-1400x710	1400	710	664	732	884
F-1600x780	1600	780	922	1024	1202
F-1800x850	1800	850	1196	1322	1562
F-2000x920	2000	920	1534	1687	2040
F-2200x990	2200	990	1948	2115	--
F-2400x1060	2400	1060	2409	2611	--
F-2600x1130	2600	1130	2918	3153	--

V

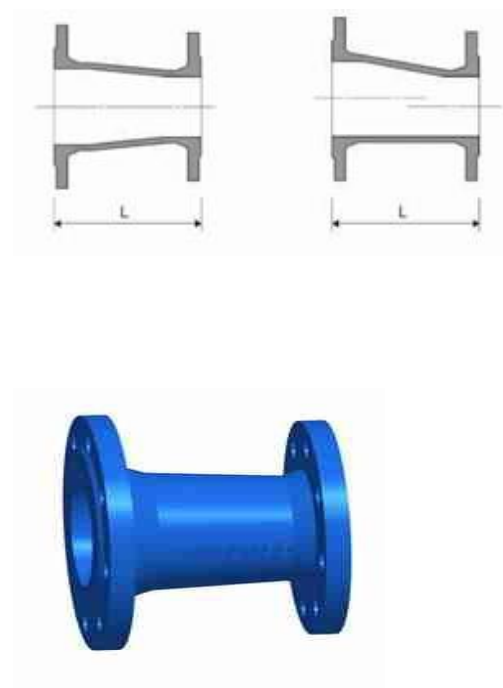
Double Flange Taper / Reducer



RF S.N.	DN	dn	L (mm)	Mass (kg)		
				PN10	PN16	PN25
FFR-100x50	100	50	175	9	9	9.5
FFR-100x65	100	65	200	9	9	9.5
FFR-100x80	100	80	200	9.3	9.3	9.8
FFR-150x80	150	80	400	16	16.1	17.1
FFR-150x100		100	300	15	15	17.5
FFR-200x80	200	80	600	25.1	25.1	26.9
FFR-200x100		100	600	27.3	27.5	29.1
FFR-200x150		150	300	22	27.5	25
FFR-250x100	250	100	600	33	32.6	36.8
FFR-250x150		150	600	38.6	39.5	42.3
FFR-250x200		200	300	30	29.5	35.5
FFR-300x80	300	80	700	42	41.7	46.9
FFR-300x100		100	600	44	43.6	49.4
FFR-300x150		150	600	46.4	46	52.6
FFR-300x200		200	600	51.7	51	58.7
FFR-300x250		250	300	40.5	39.5	49
FFR-350x80	350	80	750	50.3	53.1	61
FFR-350x100		100	750	52.5	55.2	63.7
FFR-350x150		150	700	56.0	58.8	67.7
FFR-350x200		200	600	58.1	60.5	70.9
FFR-350x250		250	600	64.9	67	79.2
FFR-350x300		300	300	49.5	52	66
FFR-400x80	400	80	800	60.6	67.1	61.9
FFR-400x100		100	800	62.9	69.4	79.1
FFR-400x150		150	750	66.6	73.1	83.2
FFR-400x200		200	600	65.7	71	84.4
FFR-400x250		250	600	72	77	92.2
FFR-400x300		300	600	78.8	84.3	101
FFR-400x350		350	300	58	67	86



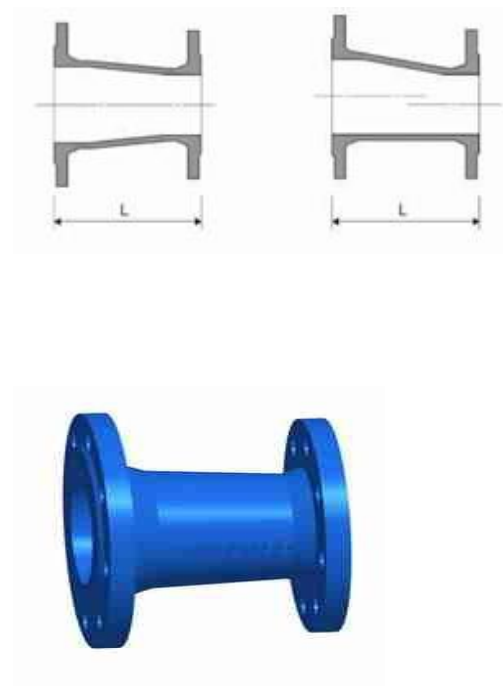
Double Flange Taper / Reducer



RF S.N.	DN	dn	L (mm)	Mass (kg)		
				PN10	PN16	PN25
FFR-450x80	450	80	900	74.1	83.4	93.8
FFR-450x100		100	900	76.7	86	96.9
FFR-450x150		150	800	77.4	86.7	98
FFR-450x200		200	750	81	90.4	102.6
FFR-450x250		250	600	79.5	87.5	96.9
FFR-450x300		300	600	86.8	95	107
FFR-450x350		350	600	92.7	104	121.5
FFR-450x400		400	300	72.4	86.6	113
FFR-500x80		500	80	950	88.8	103.2
FFR-500x100	100		950	91.6	105.9	116.9
FFR-500x150	150		900	95.8	110.2	121.6
FFR-500x200	200		800	95.7	110	122.3
FFR-500x250	250		700	99.4	114	130
FFR-500x300	300		600	96.2	111	129
FFR-500x350	350		600	103	121	141
FFR-500x400	400		600	110	130	153
FFR-500x450	450		300	116	139	157
FFR-600x80	600	80	1050	122.4	147.4	159.8
FFR-600x100		100	1050	125.8	150.6	163.5
FFR-600x150		150	1000	130.1	155.1	168.5
FFR-600x250		250	900	139.5	164.1	180.2
FFR-600x300		300	800	145	171	191
FFR-600x350		350	700	138	167	190
FFR-600x400		400	600	132	164	190
FFR-600x450		450	600	140	175	195
FFR-600x500		500	600	149	190	216



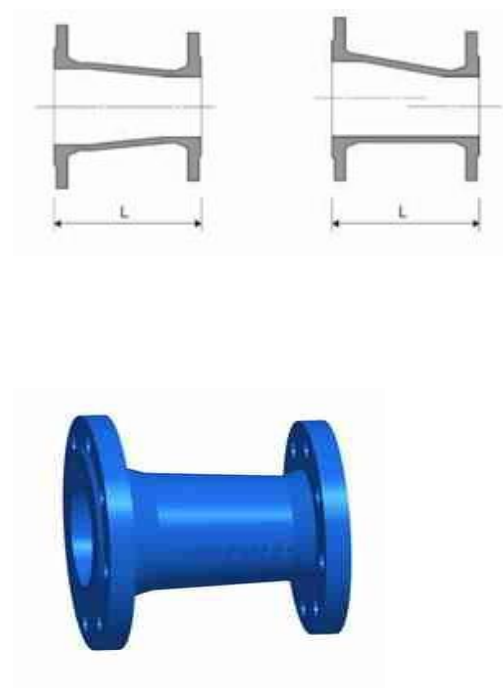
Double Flange Taper / Reducer



RF S. N.	DN	dn	L (mm)	Mass (kg)		
				PN10	PN16	PN25
FFR-700x200	700	200	1100	181.1	195.3	229.6
FFR-700x250		250	1050	186.8	200.6	236.7
FFR-700x300		300	1100	192.4	206.2	243.9
FFR-700x350		350	900	188.3	205.2	245.6
FFR-700x400		400	800	183.5	204.1	245.8
FFR-700x450		450	700	190	213	251
FFR-700x500		500	600	178	208	252
FFR-700x600		600	600	195	243	288
FFR-800x400	800	400	1030	260.8	285	340.2
FFR-800x450		450	900	247.8	274.8	331.2
FFR-800x500		500	800	255	285	347
FFR-800x600		600	600	234	275	340
FFR-800x700		700	600	250	285	374
FFR-900x400	900	400	1100	311.5	339.6	404.8
FFR-900x450		450	1100	347	380	467
FFR-900x500		500	1000	337	377	470
FFR-900x600		600	800	315	366	462
FFR-900x700		700	600	293	333	446
FFR-900x800		800	600	308	352	468
FFR-1000x500	1000	500	1200	452	501	585
FFR-1000x600		600	1000	427	487	574
FFR-1000x700		700	800	403	452	556
FFR-1000x800		800	600	369	418	540
FFR-1000x900		900	600	373	438	545



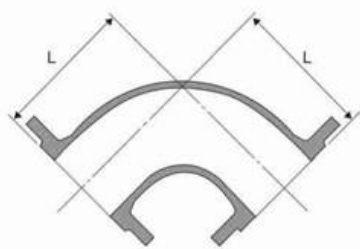
Double Flange Taper / Reducer



RF S.N.	DN	dn	L (mm)	Mass (kg)		
				PN10	PN16	PN25
FFR-1100x600	1100	600	1100	479.1	542.5	638.9
FFR-1100x700		700	1000	483.9	536.4	652.9
FFR-1100x800		800	800	454.4	510.5	640.5
FFR-1100x900		900	700	448.1	508.1	648.1
FFR-1100x1000		1000	600	444.4	520.5	677.1
FFR-1200x600	1200	600	1150	555.2	638.5	741.6
FFR-1200x700		700	1345	698	768	882
FFR-1200x800		800	1160	695	765	897
FFR-1200x900		900	975	628	708	871
FFR-1200x1000		1000	790	586	692	881
FFR-1200x1100		1100	600	527.6	624.3	799
FFR-1400x700	1400	700	850	554.7	629.6	801.8
FFR-1400x800		800	950	665.7	744.2	929.9
FFR-1400x900		900	1100	786.5	868.9	1065
FFR-1400x1000		1000	1000	788	886.5	1099
FFR-1400x1100		1100	800	723.6	822.8	1047
FFR-1400x1200		1200	850	814	947	1223
FFR-1500x1400	1500	1400	600	786	922.8	1213
FFR-1600x1000	1600	1000	1650	1354	1484	1717
FFR-1600x1100		1100	1465	1310	1441	1689
FFR-1600x1200		1200	1000	1055	1205	1456
FFR-1600x1400		1400	910	1103	1273	1641
FFR-1800x1000	1800	1000	1760	1620	1770	2060
FFR-1800x1200		1200	1710	1747	1899	2199
FFR-1800x1400		1400	1340	1588	1760	2067



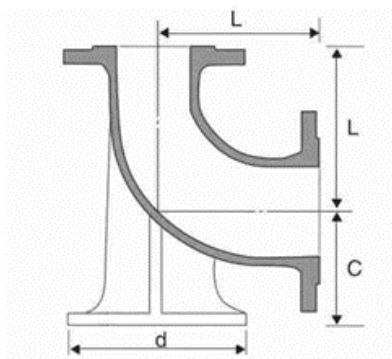
Double Flange 90° Bend



RF S. N.	DN	L (mm)	Mass (kg)		
			PN10	PN16	PN25
Q-80	80	165	9.6	9.6	9.6
Q-100	100	180	11.9	11.9	12.9
Q-125	125	200	15.6	15.6	16.9
Q-150	150	220	20	20	22
Q-200	200	260	31	30.5	34.5
Q-250	250	350	50	49.5	57
Q-300	300	400	70	70	81
Q-350	350	450	90	96	113
Q-400	400	500	116	127	149
Q-450	450	550	143	160	190
Q-500	500	600	181	211	235
Q-600	600	700	272	325	353
Q-700	700	800	399	429	473.6
Q-800	800	900	552	590	653
Q-900	900	1000	722	770	841
Q-1000	1000	1100	937	1020	1163
Q-1200	1200	1300	1490	1619	1728
Q-1400	1400	1350	2199	2335	2640
Q-1500	1500	1400	2386	2571	---
Q-1600	1600	1450	2796	2983	---
Q-1800	1800	1500	3515	3750	---
Q-2000	2000	1650	4307	4613	---



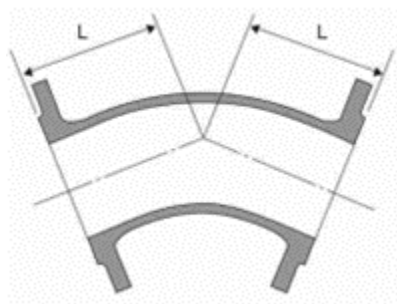
Double Flange 90° Duckfoot Bend



RF S. N.	DN	L	C	d	Mass (kg)		
					PN10	PN16	PN25
N-80	80	165	110	180	14	14	14
N-100x80	100x80	180	125	200	17	17	17
N-100	100	180	125	200	17.8	17.8	18.8
N-125	125	200	140	225	23.5	23.5	24.5
N-150x80	150x80	220	160	200	28	28	28
N-150	150	220	160	250	30	30	32
N-200	200	260	190	300	46.5	46	50.5
N-250	250	350	225	350	75	75	82
N-300	300	400	255	400	106	105	116
N-350	350	450	290	450	139	145	162
N-400	400	500	320	500	178	189	212
N-450	450	550	355	550	229	249	275
N-500	500	600	385	600	283	313	337
N-600	600	700	450	700	428	481	509
N-700	700	800	515	800	700	741	811
N-800	800	900	580	900	846	884	982
N-900	900	1000	645	1000	1118	1165	1286
N-1000	1000	1100	710	1100	1698	1781	1937
N-1200	1200	1300	840	1300	2599	2709	---



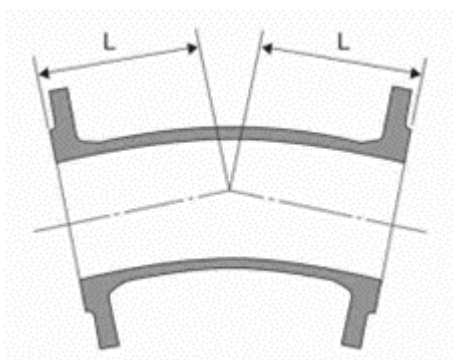
Double Flange 45° Bend



RF S. N.	DN	L (mm)	Mass (kg)		
			PN10	PN16	PN25
FFK45-80	80	130	9.3	9.3	9.3
FFK45-100	100	140	11.3	11.3	12.4
FFK45-125	125	150	14.6	14.6	15.9
FFK45-150	150	160	18.5	18.6	21
FFK45-200	200	180	27.5	27	31.5
FFK45-250	250	350	55	54	62
FFK45-300	300	400	78	77	88
FFK45-350	350	298	76	83	89
FFK45-400	400	324	96	107	129
FFK45-450	450	349	116	133.8	158
FFK45-500	500	375	145	175	198
FFK45-600	600	426	212	266	294
FFK45-700	700	478	296	326	388
FFK45-800	800	529	403	442	528
FFK45-900	900	581	519	567	669
FFK45-1000	1000	632	668	751	881
FFK45-1100	1100	695	841.2	918	1137
FFK45-1200	1200	750	1050	1178	1345
FFK45-1400	1400	775	1388	1524	1852
FFK45-1500	1500	810	1665	1788	2088
FFK45-1600	1600	845	1915	2119	2416
FFK45-1800	1800	910	2465	2717	3125
FFK45-2000	2000	980	3149	3455	3907
FFK45-2200	2200	880	3446	3804	---
FFK45-2400	2400	945	4277	4719	---
FFK45-2600	2600	1005	5175	5695	---



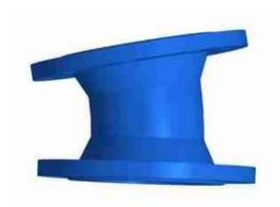
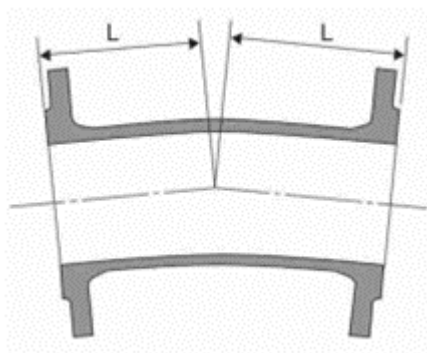
Double Flange 22.5° Bend



RF S. N.	DN	L (mm)	Mass (kg)		
			PN10	PN16	PN25
FFK22-80	80	105	9.2	9.2	9.2
FFK22-100	100	110	11.5	11.5	12.6
FFK22-125	125	150	14.7	14.7	15.9
FFK22-150	150	109	18.6	18.6	20.8
FFK22-200	200	131	27	27	31
FFK22-250	250	190	37.9	37.1	46
FFK22-300	300	210	51	50.3	63
FFK22-350	350	210	61.1	67.9	87.2
FFK22-400	400	239	74.8	90.7	113.1
FFK22-450	450	180	87.3	110	135.4
FFK22-500	500	190	107.8	142.9	168.3
FFK22-600	600	220	154.7	215.7	246
FFK22-700	700	300	216.5	250.9	330.2
FFK22-800	800	330	294.9	330.3	422.3
FFK22-900	900	360	373	416.2	528.2
FFK22-1000	1000	390	477.2	552.6	697.8
FFK22-1100	1100	683	877	947	---
FFK22-1200	1200	450	736.6	853.2	1035
FFK22-1400	1400	460	1021	1157	1388
FFK22-1600	1600	470	1284	1468	1789
FFK22-1800	1800	480	1640	1864	---
FFK22-2000	2000	520	2081	2357	---
FFK22-2100	2100	540	2371	2700	---
FFK22-2200	2200	560	2484.8	2818.8	---
FFK22-2400	2400	600	3032.8	3427.8	---
FFK22-2600	2600	640	3645.8	4116.4	---



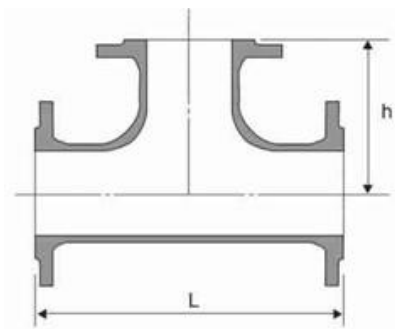
Double Flange 11.25° Bend



RF S. N.	DN	L (mm)	Mass (kg)		
			PN10	PN16	PN25
FFK11-80	80	113	9.2	9.2	9.2
FFK11-100	100	115	11.5	11.5	12.5
FFK11-125	125	150	14.8	14.8	16
FFK11-150	150	113	17.2	17.2	19.5
FFK11-200	200	132	24.3	24.4	28.8
FFK11-250	250	165	34.7	33.8	42.8
FFK11-300	300	175	46.4	45.7	58.4
FFK11-350	350	191	54.9	61.8	81
FFK11-400	400	205	66.8	82.7	105.1
FFK11-450	450	135	76.6	99.3	124.7
FFK11-500	500	140	93.6	128.7	154.1
FFK11-600	600	160	134.7	195.7	225.9
FFK11-700	700	205	206.6	241	320.3
FFK11-800	800	230	270	308	367.3
FFK11-900	900	245	303	351	450.2
FFK11-1000	1000	265	382	465	607
FFK11-1100	1100	683	882	952	---
FFK11-1200	1200	360	639.2	755.8	937.2
FFK11-1400	1400	380	873.8	955.4	1275
FFK11-1500	1500	885	1849	2025	---
FFK11-1600	1600	400	1203	1382	1664
FFK11-1800	1800	345	1342	1566	---
FFK11-2000	2000	375	1694	1970	---
FFK11-2100	2100	390	1939	2267	---
FFK11-2200	2200	405	1995.8	2329.8	---
FFK11-2400	2400	435	2420	2824.8	---



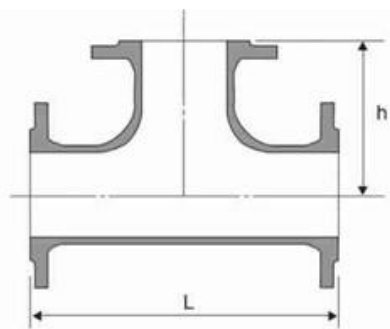
ALL Flange Tee



RF S.N.	DN	dn	L	h	Mass (kg)		
			(mm)		PN10	PN16	PN25
T-80x80	80	80	330	165	15.6	15.6	15.6
T-100x80	100	80	360	175	18.4	18.4	19.5
T-100x100		100	360	180	19.4	19.4	21
T-125x80	125	80	350	190	23	23	24.5
T-125x100		100	370	195	24	24	26
T-125x125		125	400	200	25.5	25.5	27.5
T-150x80	150	80	440	205	28.5	28.5	31
T-150x100		100	440	210	29.5	29.5	32
T-150x125		125	440	215	31	31	34
T-150x150		150	440	220	32.5	32.5	36
T-200x80	200	80	520	235	42	41.5	46
T-200x100		100	520	240	43	42	47.5
T-200x125		125	520	240	44.5	43.8	49.3
T-200x150		150	520	250	46	45	51
T-200x200		200	520	260	49.5	49	56
T-250x80	250	80	700	265	66	65.3	72.6
T-250x100		100	700	275	68	67	75
T-250x125		125	700	290	68.7	67.9	75.9
T-250x150		150	700	300	72	71	81
T-250x200		200	700	325	76	75	85
T-250x250		250	700	350	82	81	93
T-300x100	300	100	800	300	94	93	105
T-300x125		125	800	310	94	93.4	104.4
T-300x150		150	800	325	98	97	109
T-300x200		200	800	350	102	101	114
T-300x250		250	800	375	109	108	121
T-300x300		300	800	400	116	115	131



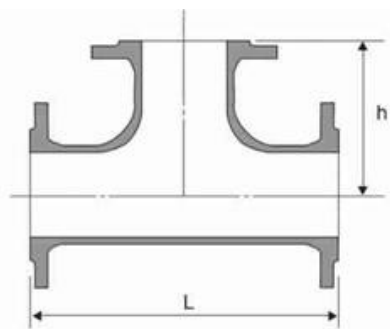
ALL Flange Tee



RF S. N.	DN	dn	L	h	Mass (kg)		
			(mm)		PN10	PN16	PN25
T-350x100	350	100	850	325	116	122	139
T-350x125		125	850	325	116	122	138
T-350x150		150	850	325	119	125	142
T-350x200		200	850	325	121	128	146
T-350x250		250	850	325	128	134	154
T-350x300		300	850	425	132	138	160
T-350x350		350	850	425	142	151	176
T-400x100	400	100	900	350	143	154	177
T-400x125		125	900	350	142.8	155.8	174.8
T-400x150		150	900	350	144.2	157.2	181
T-400x200		200	900	350	148	159	184
T-400x250		250	900	350	151	161	198
T-400x300		300	900	450	162.7	184	213
T-400x350		350	900	450	170	183	215
T-400x400	400	900	450	174	191	225	
T-450x100	450	100	950	375	176	193	225
T-450x125		125	950	375	171.6	190.2	211.6
T-450x150		150	950	375	182	199	231
T-450x200		200	950	375	190	207	240
T-450x250		250	950	375	199	216	250
T-450x300		300	950	475	210	227	263
T-450x350		350	950	475	219	240	279
T-450x400		400	950	475	231	254	296
T-450x450		450	950	475	243	269	315



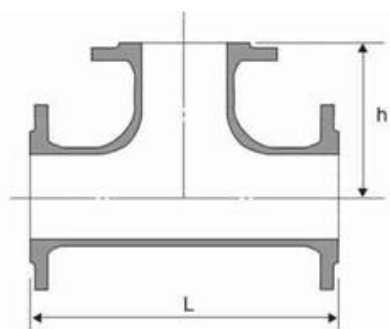
ALL Flange Tee



RF S. N.	DN	dn	L	h	Mass (kg)		
			(mm)		PN10	PN16	PN25
T-500x100	500	100	1000	400	210	241	265
T-500x125		125	1000	400	209.3	238.1	259.5
T-500x150		150	1000	400	214	243	269
T-500x200		200	1000	400	215	245	271
T-500x250		250	1000	400	218	258	280
T-500x300		300	1000	500	228.1	256.6	287
T-500x350		350	1000	500	239	276	298
T-500x400		400	1000	500	242	276	311
T-500x450		450	1000	500	249	298	327
T-500x500		500	1000	500	252	297	332
T-600x100	600	100	1100	450	296.7	346.7	372
T-600x125		125	1100	450	297.8	347.8	373.2
T-600x150		150	1100	450	299	349	374.7
T-600x200		200	1100	450	305	358	388
T-600x250		250	1100	450	307	360	392
T-600x300		300	1100	550	312	374	398
T-600x350		350	1100	550	326	380	413
T-600x400		400	1100	550	329	387	427
T-600x450		450	1100	550	338	417	448
T-600x500		500	1100	550	349	420	464
T-600x600	600	1100	550	355	434	477	



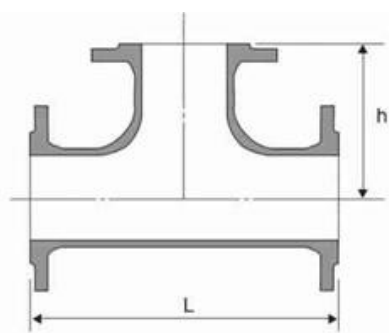
ALL Flange Tee



RF S. N.	DN	dn	L	h	Mass (kg)		
			(mm)		PN10	PN16	PN25
T-700x80	700	80	520	505	223.3	251.5	316.5
T-700x100		100	540	510	253	295	323.2
T-700x125		125	570	510	238.5	266.7	332.3
T-700x150		150	595	515	255	296	340.9
T-700x200		200	650	525	258	298	359.3
T-700x250		250	705	530	310	335	379
T-700x300		300	760	540	319	342	399.7
T-700x350		350	815	545	340	375	423.3
T-700x400		400	870	555	343	379	447.1
T-700x450		450	925	560	429	436	469.4
T-700x500		500	980	570	442	481	496.6
T-700x600		600	1090	585	476	523	556
T-700x700		700	1200	600	477	523	618.7
T-800x80	800	80	560	565	298	333.4	425.4
T-800x100		100	580	570	345	383	433.3
T-800x125		125	610	570	316.4	351.8	444.4
T-800x150		150	635	575	349	387	454.6
T-800x200		200	690	585	352	390	476.2
T-800x250		250	745	590	372	410	499.5
T-800x300		300	800	600	423	427	523.6
T-800x350		350	855	605	443	471	550.5
T-800x400		400	910	615	441	484	586
T-800x450		450	965	620	519	563	603
T-800x500		500	1020	630	561	599	633.2
T-800x600		600	1350	645	613	678	771.3
T-800x700		700	1350	660	663	711	802.1
T-800x800	800	1350	675	657	715	850.8	



ALL Flange Tee

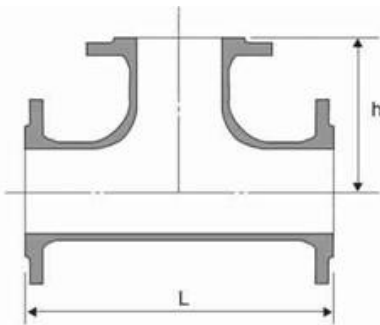


RF S. N.	DN	dn	L	h	Mass (kg)		
			(mm)		PN10	PN16	PN25
T-900x80	900	80	600	630	371.6	414.8	526.8
T-900x100		100	620	630	428	476	536.1
T-900x125		125	650	630	393.5	436.7	549.3
T-900x150		150	675	635	432	480	561
T-900x200		200	730	645	436	484	598
T-900x250		250	785	650	499	533	613.6
T-900x300		300	840	660	523	569	641.4
T-900x350		350	895	665	538	588	672
T-900x400		400	950	675	541	594	715.2
T-900x450		450	1005	680	673	729	731.5
T-900x500		500	1060	690	726	784	765.3
T-900x600		600	1500	705	787	860	969.6
T-900x700		700	1500	720	843	901	998.7
T-900x800		800	1500	735	860	913	1045
T-900x900		900	1500	750	853	924	1089
T-1000x80	1000	80	640	690	470.4	545.8	691
T-1000x100		100	660	690	524	572	701.8

T-1000x125	125	690	690	496	571.4	717.2
T-1000x150	150	715	695	534	582	730.8
T-1000x200	200	770	705	546	629	775.6
T-1000x250	250	825	710	631	703	791.7
T-1000x300	300	880	720	651	739	823.6
T-1000x350	350	935	725	660	753	858.2
T-1000x400	400	990	735	668	755	910.0
T-1000x450	450	1045	740	850	911	925.7
T-1000x500	500	1100	750	955	1007	963.1
T-1000x600	600	1650	765	1007	1116	1253
T-1000x700	700	1650	780	1067	1152	1281
T-1000x800	800	1650	795	1085	1168	1325
T-1000x900	900	1650	810	1095	1219	1366
T-1000x1000	1000	1650	825	1105	1229	1441

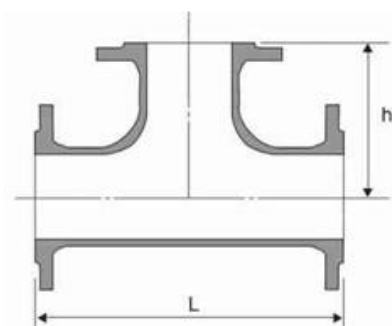


ALL Flange Tee



RF S.N.	DN	dn	L	h	Mass (kg)		
			(mm)		PN10	PN16	PN25
T-1100x80	1100	80	680	745	579.7	656.5	824.5
T-1100x100		100	700	750	591.8	668.5	837.1
T-1100x125		125	730	750	609.6	686.4	855
T-1100x150		150	755	755	625	701.8	870.7
T-1100x200		200	810	765	658.3	735.2	905
T-1100x250		250	865	770	692.4	768.9	940.5
T-1100x300		300	920	780	727.1	803.6	976.8
T-1100x350		350	975	790	760.3	839.9	1016
T-1100x400		400	1030	795	794.3	877.6	1055
T-1100x450		450	1085	800	827.5	913.6	1092
T-1100x500		500	1140	810	864.2	955.4	1134
T-1100x600		600	1800	825	1248	1350	1530
T-1100x700		700	1800	840	1265	1356	1556
T-1100x800		800	1800	855	1290	1385	1599
T-1100x900		900	1800	870	1315	1413	1637
T-1100x1000		1000	1800	885	1354	1469	1709
T-1100x1100	1100	1800	900	1402	1517	1769	

T-1200x80	1200	80	635	805	654.9	771.5	952.9
T-1200x100		100	660	810	996	1082	970.4
T-1200x125		125	690	810	692.4	809	991
T-1200x150		150	715	815	998	1084	1009
T-1200x200		200	775	825	1000	1086	1052
T-1200x250		250	830	830	1002	1094	1092
T-1200x300		300	890	840	1004	1106	1136
T-1200x350		350	950	845	1006	1113	1222
T-1200x400		400	1005	855	1008	1122	1227
T-1200x450		450	1065	860	954	1080	1272
T-1200x500		500	1120	870	1109	1255	1319
T-1200x600		600	1240	885	1101	1256	1450
T-1200x700		700	1355	900	1279	1423	1522
T-1200x800		800	1470	915	1291	1439	1666
T-1200x900		900	1585	930	1427	1662	1752
T-1200x1000		1000	1700	945	1494	1664	1918
T-1200x1200		1200	1935	975	2201	2321	2181

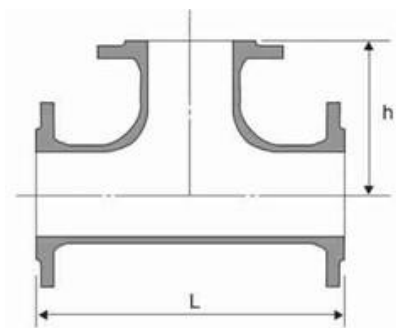

ALL Flange Tee


RF S.N.	DN	dn	L		Mass (kg)		
			(mm)		PN10	PN16	PN25
T-1400x80	1400	80	950	900	1101	1223	1502
T-1400x100		100	970	905	1227	1363	1522
T-1400x125		125	1000	910	1145	1267	1547
T-1400x150		150	1030	910	1172	1293	1574
T-1400x200		200	1085	920	1231	1367	1623
T-1400x250		250	1140	930	1270	1391	1674
T-1400x300		300	1200	935	1323	1445	1729
T-1400x350		350	1260	940	1375	1500	1787
T-1400x400		400	1320	950	1514	1656	1845
T-1400x450		450	1380	960	1481	1612	1902
T-1400x500		500	1430	965	1527	1663	1953
T-1400x600		600	1550	980	1655	1818	2077
T-1400x700		700	1670	995	1753	1889	2201
T-1400x800		800	1780	1010	1886	2041	2367
T-1400x900		900	1900	1025	1985	2129	2464
T-1400x1000		1000	2015	1040	2131	2309	2661

T-1400x1100		1100	2130	1055	2245	2405	2769
T-1400x1200		1200	2245	1070	2567	2767	2944
T-1400x1400		1400	2480	1100	2781	2985	3296
T-1500x600	1500	600	1575	1035	1886	2063	2375
T-1500x1000		1000	2040	1095	2410	2600	2972
T-1600x100	1600	100	1020	1015	1874	2078	---
T-1600x200		200	1140	1030	1880	2084	2143
T-1600x250		250	1200	1040	1703	1887	2211
T-1600x300		300	1250	1045	1758	1943	2268
T-1600x400		400	1370	1060	2000	2210	2410
T-1600x500		500	1490	1075	2022	2221	2551
T-1600x600		600	1600	1090	2167	2398	2731
T-1600x800		800	1835	1120	2452	2675	3041
T-1600x1000		1000	2065	1150	2740	2986	3378
T-1600x1200		1200	2300	1180	3058	3327	3738
T-1600x1400		1400	2530	1210	3498	3770	4071
T-1600x1600		1600	2760	1240	3886	4192	4528



ALL Flange Tee



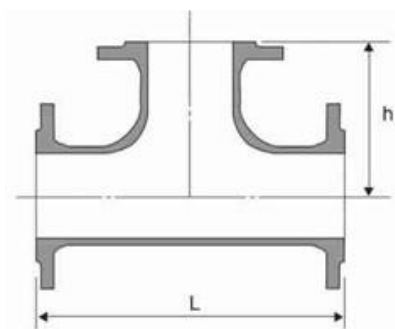
RF S.N.	DN	dn	L	h	Mass (kg)		
			(mm)		PN10	PN16	PN25
T-1800x100	1800	100	1075	1125	2346	2598	
T-1800x200		200	1190	1140	2350	2602	2705
T-1800x250		250	1250	1150	2126	2352	2789
T-1800x300		300	1310	1155	2208	2434	2872
T-1800x400		400	1420	1170	2574	2835	3033
T-1800x500		500	1540	1185	2513	2753	3197
T-1800x600		600	1655	1200	2694	2972	3418
T-1800x800		800	1885	1230	3023	3299	3779



T-1800x1000		1000	2120	1260	3375	3669	4176
T-1800x1200		1200	2350	1290	3740	4056	4580
T-1800x1400		1400	2580	1320	4254	4574	4937
T-1800x1600		1600	2815	1350	4691	5147	5427
T-1800x1800		1800	3045	1380	5123	5501	5976
T-2000x100	2000	100	1125	1235	2836	3142	--
T-2000x200		200	1240	1250	2840	3146	3452
T-2000x250		250	1300	1260	3632	2905	3553
T-2000x300		300	1360	1265	2729	3003	3652
T-2000x400		400	1475	1280	3002	3314	3843
T-2000x500		500	1590	1295	3095	3383	4037
T-2000x600		600	1705	1310	3300	3642	4298
T-2000x800		800	1940	1340	3844	4169	4655
T-2000x1000		1000	2170	1370	4112	4459	5175
T-2000x1200		1200	2400	1400	4484	4816	5551
T-2000x1400		1400	2635	1430	4966	5340	6123
T-2000x1600		1600	2865	1460	5625	6033	6579
T-2000x1800		1800	3100	1490	6115	6547	7150
T-2000x2000		2000	3330	1520	6648	7107	7839



ALL Flange Tee



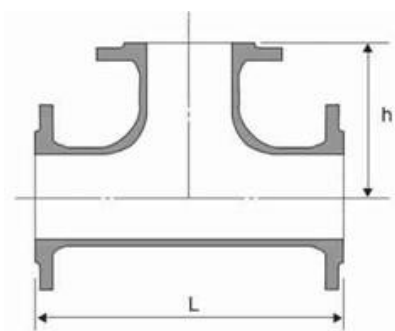
RF S.N.	DN	dn	L	h	Mass (kg)		
			(mm)		PN10	PN16	PN25
T-2200x200	2200	200	1120	1360	2806	3120	--
T-2200x250		250	1175	1370	2913	3228	--
T-2200x300		300	1230	1375	3019	3334	--
T-2200x400		400	1340	1390	3231	3552	--
T-2200x500		500	1450	1405	3431	3760	--
T-2200x600		600	1560	1420	3675	4034	--
T-2200x800		800	1780	1450	4071	4403	-



T-2200x1000		1000	2000	1480	4506	4859	-
T-2200x1200		1200	2220	1510	5026	5413	-
T-2200x1400		1400	2440	1540	5430	5805	-
T-2200x1600		1600	2660	1570	5949	6356	-
T-2200x1800		1800	2880	1600	6474	6934	-
T-2200x2000		2000	3100	1630	7051	7502	-
T-2200x2200		2200	3320	1660	7714	8186	-
T-2400x200	2400	200	1180	1470	3372	3787	-
T-2400x250		250	1235	1480	3498	3912	-
T-2400x300		300	1290	1485	3621	4035	-
T-2400x400		400	1400	1500	3868	4289	-
T-2400x500		500	1510	1515	4102	4530	-
T-2400x600		600	1620	1530	4418	4849	-
T-2400x800		800	1840	1560	4843	5274	-
T-2400x1000		1000	2060	1590	5344	5796	-
T-2400x1200		1200	2280	1620	5963	6432	-
T-2400x1400		1400	2500	1650	6391	6866	-
T-2400x1600		1600	2720	1680	6968	7474	-
T-2400x1800		1800	2940	1710	7614	8145	-
T-2400x2000		2000	3460	1740	8171	8722	-
T-2400x2200		2200	3380	1770	8871	9442	-
T-2400x2400	2400	3600	1800	9605	10226	-	



ALL Flange Tee



RF S. N.	DN	dn	L	h	Mass (kg)		
			(mm)		PN10	PN16	PN25
T-2600x200		200	1240	1580	4052	4486	---
T-2600x250		250	1295	1590	4196	4630	---
T-2600x300		300	1350	1595	4339	4773	---

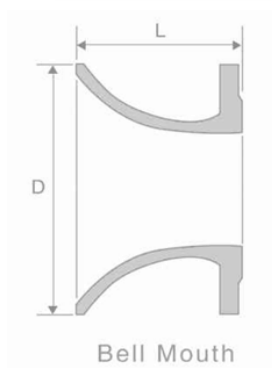


T-2600x400	2600	400	1460	1610	4624	5064	---
T-2600x500		500	1570	1625	4894	5342	---
T-2600x600		600	1680	1640	5214	5711	---
T-2600x800		800	1900	1670	5744	6195	---
T-2600x1000		1000	2120	1700	6316	6788	---
T-2600x1200		1200	2340	1730	6906	7399	---
T-2600x1400		1400	2560	1760	7585	8128	---
T-2600x1600		1600	2780	1790	8141	8668	---
T-2600x1800		1800	3000	1820	8779	9326	---
T-2600x2000		2000	3220	1850	9595	10128	---
T-2600x2200		2200	3440	1880	10212	10803	---
T-2600x2400		2400	3660	1910	10988	11629	---
T-2600x2600		2600	3880	1940	11860	12512	---

Flange Bellmouth

RF S. N.	DN	L	D	Mass (kg)		
		(mm)		PN10	PN16	PN25
FBM-80	80	130	150	5.2	5.2	5.2
FBM-100	100	135	175	6.2	6.2	6.7
FBM-150	150	150	230	10.1	10.1	11.1

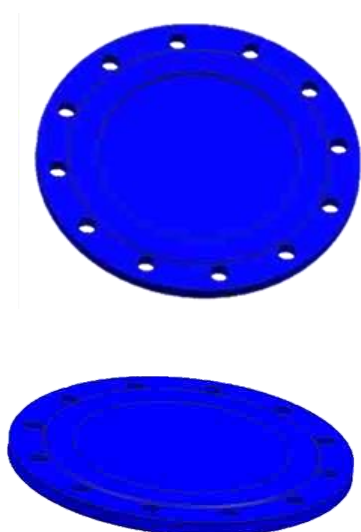
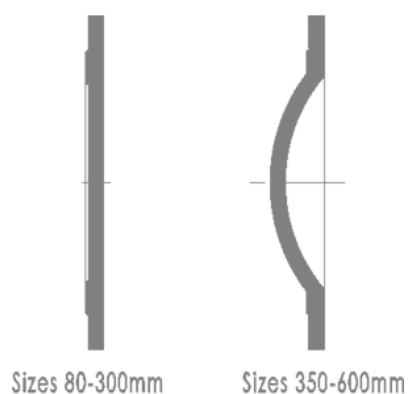




FBM-200	200	170	290	15	14.8	16.8
FBM-250	250	185	345	21	20.5	24.5
FBM-300	300	205	405	28.5	28.5	33.5
FBM-350	350	220	460	35.5	38	46
FBM-400	400	240	520	45	49.5	60.5
FBM-450	450	255	575	54	62	73
FBM-500	500	275	630	67	80	91
FBM-600	600	310	750	96.5	120	132
FBM-700	700	345	865	135	146	178.5
FBM-800	800	380	980	182	197	243
FBM-900	900	415	1095	231	250	306
FBM-1000	1000	450	1210	297	331	404
FBM-1200	1200	520	1440	457	512	603
FBM-1400	1400	590	1670	646	702	842
FBM-1600	1600	660	1990	906	995	1156
FBM-1800	1800	730	2130	1185	1297	1514
FBM-2000	2000	800	2360	1530	1668	1990

Blank Flange

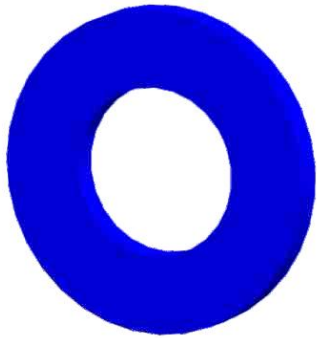
RF S. N.	DN	Mass (kg)			
		PN10	PN16	PN25	PN40
X-80	80	3.5	3.5	3.5	3.7
X-100	100	4.3	4.3	4.8	5.1



X-125	125	5.6	5.6	6.2	8.3
X-150	150	7.2	7.2	8.3	11.4
X-200	200	11	10.8	13.3	20.5
X-250	250	16.9	16.6	21	34.5
X-300	300	24	23.5	30	51
X-350	350	30.7	35	45.1	74
X-400	400	38.1	48.2	60.5	106
X-450	450	47.1	60.9	79	118
X-500	500	58.7	80.3	97.4	150
X-600	600	88.9	126.2	150.4	232
X-700	700	128.7	163.6	215.9	--
X-800	800	180.1	228.7	300.8	--
X-900	900	235.1	300.7	398.5	--
X-1000	1000	307.8	405.6	535.8	--
X-1200	1200	575	662	702	--
X-1400	1400	739	994	1085	--
X-1600	1600	1239	1409	1674	--
X-1800	1800	1717	1858	2245	--
X-2000	2000	2272	2407	2985	--
X-2200	2200	--	--	--	--

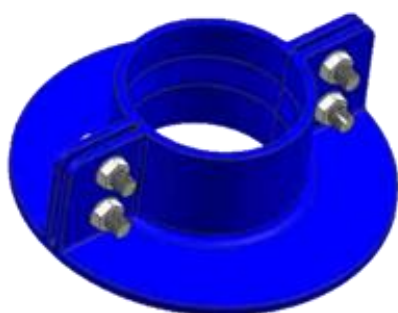
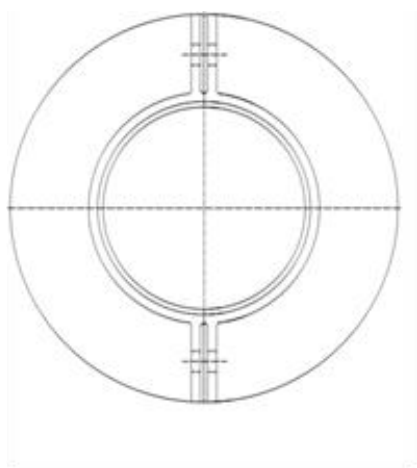
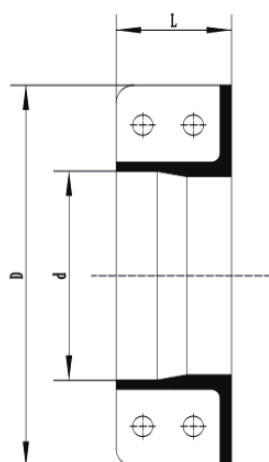
Puddle Flange

RF S. N.	DN	b	D	Mass (kg)		
				PN10	PN16	PN25
PF-80	80			2.9	2.9	2.9



PF-100	100	15	219	3.3	3.3	3.3
PF-150	150	15		4.9	4.9	5.9
PF-200	200	16		6.8	6.6	8.7
PF-250	250	21		9.8	9.2	13.1
PF-300	300	22		12.8	12.4	18
PF-400	400	24		16.3	21.9	33.2
PF-450	450	26		18.1	26.7	42.2
PF-500	500	30		21.8	37	48.7
PF-600	600	28		30.8	57.3	71.5
PF-700	700	32		40.5	55.6	90.3
PF-800	800	31		54.8	74	123
PF-900	900	40		64.3	88.2	149
PF-1000	1000	40		81.4	123	201
PF-1200	1200	44		121	185	285

Split Puddle Flange



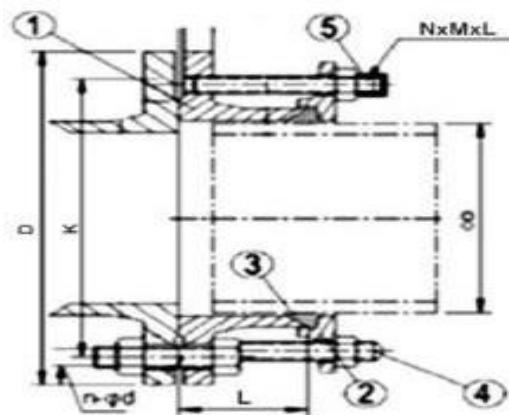
RF S. N.	DN	D	L	d	Mass (kg)
		(mm)			
SPF-80	80	260	110	100	11.5
SPF-100	100	305	110	120	14.5
SPF-150	150	390	130	172	23
SPF-200	200	430	130	224	28
SPF-250	250	490	130	276	37
SPF-300	300	555	130	329	46
SPF-350	350	610	130	381	50
SPF-400	400	660	150	432	62
SPF-450	450	725	150	483	73
SPF-500	500	790	150	535	85
SPF-600	600	900	165	638	120
SPF-700	700	1000	165	746	144
SPF-800	800	1100	185	850	189
SPF-900	900	1200	185	953	221
SPF-1000	1000	1340	200	1056	342
SPF-1200	1200	1570	225	1263	487
SPF-1400	1400	1780	225	1470	634
SPF-1600	1600	1996	225	1686	702

FLANGE ADAPTOR FOR DI PIPE





NO.	Part	Material
1	Body	EN-GJS-500-7
2	Gland	EN-GJS-500-7
3	Sealing Gasket	EPDM
4	Bolt & Nut & Washer	Hot dip galvanized 8.8 carbon steel
5	Cap	Plastic

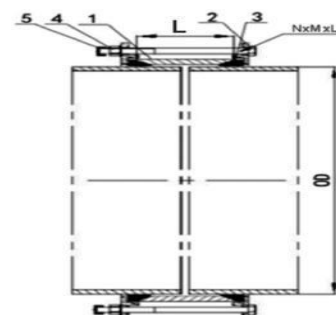


FLANGE ADAPTOR FOR DI PIPE



DN	OD	D		K		L		n-φd		Bolt	Weight (Kg)	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	NxMxL	PN10	PN16
50	66	165		125		73		4-19		4x M12x100	5	
65	82	185		135		73					6	
80	98	200		160		73					7	
100	118	220		180		76		8-19			8	
125	144	250		210		76					8.6	
150	170	285		240		76		8-23	4x M12x110	9		
200	222	340		295	295	76		12-23	6x M12x110	/	14	
250	274	400		350	355	90		12-28		/	18	
300	326	455		400	410	90				6x M12x120	/	21
350	378	505	520	460	470	110		16-28	8x M16x170	/	30	
400	429	565	580	515	525	110		16-31		/	40	
450	480	615	640	565	585	110		20-32	10xM16x170	/	42	
500	532	670	715	620	650	115		20-34	10xM16x180	/	65	
600	635	780	840	725	770	115		20-37		/	85	
700	738	895	910	840	840	115		24-37	12xM16x180	/	95	
800	842	1015	1025	950	950	115		24-40		/	116	
900	945	1115	1125	1050	1050	115		28-40	14xM16x180	/	138	
1000	1048	1230	1255	1160	1170	115		28-43		/	179	
1100	1152	1340	1355	1270	1270	130		32-43	16xM16x180	/	195	
1200	1255	1455	1485	1380	1390	130		32-49		/	250	
1400	1462	1675	1685	1590	1590	130		36-49	18xM16x200	/	320	
1500	1565	1785	1820	1700	1710	130		36-56	18xM16x240	/	400	
1600	1668	1915	1930	1820	1820	190		40-56	20xM16x240	/	460	
1800	1875	2115	2130	2020	2020	190		44-56	22xM20x240	/	600	
2000	2082	2325	2345	2230	2230	190		48-62	24xM20x240	/	800	

COUPLING FOR DI PIPE



NO.	Part	Material
1	Body	EN-GJS-500-7
2	Gland	EN-GJS-500-7
3	Sealing Gasket	EPDM
4	Bolt & Nut & washer	Hot dip galvanized 8.8 carbon steel
5	Cap	Plastic

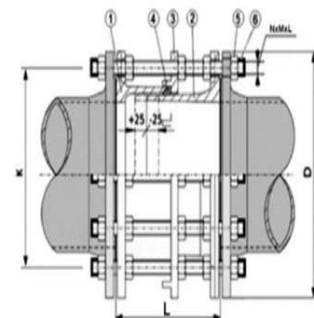
OD	L	Bolt	Weight (Kg)	
		NxMxL		
98	100	4xM12x180	6.5	
118			7	
144			9	
170		6xM12x180	11	
222			15	
274			21.5	
326			23	
378	150	8xM16x265	36.5	
429			42.5	
480		10xM16x265	50.5	
532			54.5	
635			74	
738		175	12xM16x265	97.5
842			12xM16x265	105
945	14xM16x280		147	
1048	16xM16x290		157.5	
1152			272	
1255	18xM16x290	301		
1462		406		
1565		443		
1668	20xM16x290	480		
1875		22xM20x440	640	

2082	250	24xM20x440	860
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DISMANTLING JOINT

DISMANTLING JOINT PN10 PN16 PN25 PN40

NO.	Part	Material
1	Outer Pipe	EN-GJS-500-7
2	Inner Pipe	EN-GJS-500-7
3	Gland	EN-GJS-500-7
4	Sealing Gasket	EPDM
5	Bolt & Nut & Washer	Hot dip galvanized 8.8 carbon steel
6	Cap	Plastic



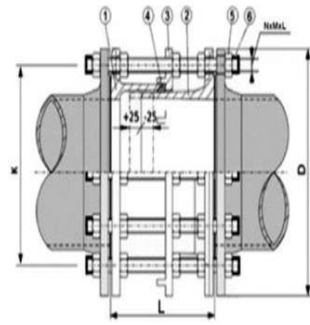
DN	D				K				L			
	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
50	165				125				190			
65	185				145							
80	200				160							
100	220		235		180		190		200		220	
125	250		270		210		220		200		220	240
150	285		300		240		250		210		220	250
200	340		360	375	295		310	320	220		230	250
250	400		425	450	350	355	370	385	230		250	270
300	455		485	515	400	410	430	450			250	
350	505	520	555	580	460	470	490	510	250		280	300
400	565	580	620	660	515	525	550	585				
450	615	640	670	685	565	585	600	610	280		300	340
500	670	715	730	755	620	650	660	670				
600	780	840	845	890	725	770	770	795	300		300	340
700	895	910	960	/	840	840	875	/			320	/
800	1015	1025	1085	/	950	950	990	/	320		/	/
900	1115	1125	1185	/	1050	1050	1090	/			350	/
1000	1230	1255	1320	/	1160	1170	1210	/	340	350	390	/
1100	1340	1355	1420	/	1270	1270	1310	/	350	360	/	/
1200	1455	1485	1530	/	1380	1390	1420	/	370		400	/
1400	1675	1685	1755	/	1590	1590	1640	/	380		460	/
1500	1785	1820	1865	/	1700	1710	1750	/	410		/	/
1600	1915	1930	1975	/	1820	1820	1860	/			495	/



1800	2115	2130	2195	/	2020	2020	2070	/	440	520	/
2000	2325	2345	2425	/	2230	2230	2300	/	460	545	/

DISMANTLING JOINT

BOLTS				Weight(Kg)				DN
NxMxL								
PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40	
4xM16x330				10.7		11		50
4xM16x330		8xM16x330		12.5		15		65
8xM16x340		8xM16x340		16.6		17		80
		8xM20x360		19		25		100
8xM20x350		8xM24x370	8xM24x400	22.2		33.4	38	125
8xM20x350		8xM24x380	8xM24x410	29.9		37.9	44	150
8xM20x370	12xM20x370	12xM24x380	12xM27x420	38.9	43.2	55.8	78	200
12xM20x380	12xM24x380	12xM27x420	12xM30x460	54.4	61.4	80.3	113	250
12xM20x380	12xM24x400	16xM27x420	16xM30x470	64.7	72.3	104.5	151	300
16xM20x400	16xM24x420	16xM30x450	16xM33x510	80.5	97.7	140.3	202	350
16xM24x420	16xM27x420	16xM33x480	16xM36x530	102.9	123.7	181	266	400
20xM24x440	20xM27x450	20xM33x480	20xM36x550	124.6	156.9	216	291	450
	20xM30x470	20xM33x480	20xM39x580	139	200.8	240	387	500
20xM27x480	20xM33x500	20xM36x520	20xM45x600	192.7	280.4	322	563	600
24xM27x480	24xM33x510	24xM39x560	/	252.5	324	464	/	700
24xM30x510	24xM36x550	24xM45x610	/	332.9	417	652	/	800
28xM30x510	28xM36x550	28xM45x610	/	390	488	765	/	900
28xM33x550	28xM39x600	28xM52x680	/	509	666	1086	/	1000
32xM33x570	32xM39x610	32xM52x700	/	606	770	1251	/	1100
32xM36x600	32xM45x640	32xM52x720	/	750	1100	1393	/	1200
36xM39x630	36xM45x660	36xM56x800	/	1035	1350	1881	/	1400
36xM39x660	36xM52x720	36xM56x800	/	1180	1525	2036	/	1500
40xM45x680	40xM52x730	40xM56x840	/	1525	1718	2339	/	1600
44xM45x720	44xM52x760	44xM64x900	/	1830	2100	3143	/	1800
48xM45x740	48xM56x800	48xM64x950	/	2280	2650	3824	/	2000





الاسم الأبرز في عالم المسبوكات
Remarkable Name In Casting



Contact US

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