



مصر للمصبوكات





# Certificate of Registration

This is to Certify that  
Occupational Health & Safety Management System of

**EGYPT CASTING**

MASBAK KHALIL ST. - ABU ZABAL - KHANKA - QALIOBIA - EGYPT

has been assessed and found to conform to the requirements of

**ISO 45001:2018**

for the following scope :

MANUFACTURING, CASTING, PROCESSING AND FORMING OF METALS

Certificate No	: 2110GF42	Issuance Date	: 26/02/2021
Initial Registration Date	: 26/02/2021	Date of Expiry	: 25/02/2024
1st Surve. Due	: 26/01/2022	2nd Surve. Due	: 26/01/2023

**Director**



ACCREDITED  
Management Systems  
Certification Body  
MSCB-119



**AQC MIDDLE EAST FZE.**

Head Office: E1-1401 E Amber Gem Tower, Sheikh Khalifa Bin Zayed Road, 2, Ajman, UAE.

\*Validity of the Certificate is subject to successful completion of surveillance audits on or before of due date. On case surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawn.

**Certificate Verification:** Please Re check the validity of certificate at <http://www.aqcworld.com/verification.aspx> or [www.aqcworld.com](http://www.aqcworld.com) or Direct Clients.  
Certificate is the property of AQC Middle East FZE and shall be returned immediately when demanded.



# Certificate of Registration

This is to Certify that  
**Environmental Management System of**  
**EGYPT CASTING**

MASBAK KHALIL ST. - ABU ZABAL - KHANKA - QALIOBIA - EGYPT

has been assessed and found to conform to the requirements of

## ISO 14001:2015

for the following scope :

MANUFACTURING, CASTING, PROCESSING AND FORMING OF METALS

Certificate No	: 21IEGQ40	Issuance Date	: 25/02/2021
Initial Registration Date	: 25/02/2021	Date of Expiry	: 24/02/2024
1st Surve. Due	: 25/01/2022	2nd Surve. Due	: 25/01/2023



**Director**



**ACCREDITED**  
 Management Systems  
 Certification Body  
 MSCB-119



**AQC MIDDLE EAST FZE.**

Head Office: El-1401 E Amber Gem Tower, Sheikh Khalifa Bin Zayed Road, 2, Ajman, UAE. e-mail: [info@aqcworld.com](mailto:info@aqcworld.com)  
 \*Validity of the Certificate is subject to successful completion of surveillance audits on or before of due date. In case surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawn.

**Certificate Verification:** Please check the validity of certificate at <http://www.aqcworld.com/verification.aspx> or [www.aqcworld.com](http://www.aqcworld.com) or Active Clients.  
 Certificate is the property of AQC Middle East FZE and shall be returned immediately when demanded.



Certificate No. QMS/DAS19/E0360D

# Certificate of Registration

*This is to certify that the Quality Management System of*

## EGYPT FOR CASTING

MASBAK KHALIL ST, ABU ZABAL-KHANKA-QALIOBIA-EGYPT

*Has been successfully assessed & conforms with the following standard*

# ISO 9001:2015

*Scope of Certification*

**“MANUFACTURE, CASTING, PROCESSING AND FORMING OF METAL”**

Initial Registration Date : 23-10-2019  
 Surveillance 1 Audit Date : 23-09-2020  
 Surveillance 2 Audit Date : 23-09-2021

Issue Date : 23-10-2019  
 \*Expiry Date : 22-10-2020  
 Validity Date : 22-10-2022

*\* Subject to successful completion of Surveillance Audits*




D.R. SHARMA  
 (Managing Director)

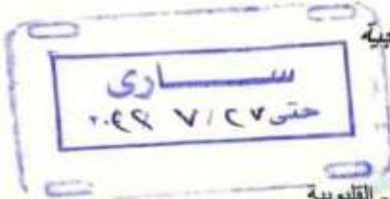
## DAS SYSTEM & SERVICES PVT. LTD. (AN ISO CERTIFICATION BODY)

Office: 212, DLF Centre Point, Sector-11, Mathura Road, Faridabad - 121006, E-mail: [dasssp1322@gmail.com](mailto:dasssp1322@gmail.com),  
 For current validity of the Certificate, visit on [www.dascertifications.com](http://www.dascertifications.com)  
 In the search box enter first 4 letters of organization name plus last 6 letters of certificate no.

**National Organization**  
For Potable Water & Sanitary Drainage  
Administration of Testing & Industry Supervision

**الهيئة القومية**  
لمياه الشرب والصرف الصحي  
إدارة الاختبارات والرقابة على الصناعة

**شهادة اعتماد منشأة إنتاجية**



( مسابك )

اسم المنشأة : مصنع مصر للمسابكات  
عنوان الإدارة : ش مسبك خليل - العكرشة - ابو زعبل - الخانكة - القليوبية  
عنوان المصنع : ش مسبك خليل - العكرشة - ابو زعبل - الخانكة - القليوبية  
السجل التجاري: 127577 مكتب سجل تجاري : استثمار محافظة : القاهرة  
ب-ض رقم تسجيل ضريبي 728-546-957 مأمورية: الخانكة محافظة: القليوبية  
سجل صناعي رقم : 1320111801007474 سنة الإصدار : 2021 نوعية الصناعة : معدنية  
رخصة : ( 1320111802014565 ) تاريخ : 2021 (مدينة): الخانكة محافظة :- القليوبية

أهم المنتجات المعتمدة لدى الهيئة :-

- 1- اغطية زهر مرن ورمادي قطر 60سم
- 2- درجة سلم زهر رمادي
- 3- قطع خاصة حتي قطر 1000مم زهر مرن رمادي
- 4- محابس هواء حتي قطر 200مم زهر مرن
- 5- محابس عدم رجوع حتي قطر 300مم
- 6- محابس سكينه حتي قطر 300مم

- طبقا للمواصفات القياسية المصرية و العالمية
- يتم الالتزام بتعليمات الإدارة و الموضحة خلفه وفي حاله مخالفتها يعتبر لاغي
- شهادة الاعتماد لا يعمل بها كإيداع عن شهادات الاختبار التي تصدر لكل أمر توريد على حده

المشرف العام  
محمود عبد الحفيظ المزين

مهندس /



صادر في ١٩/٧/٢٠٢١  
ساري حتى ٧/٢٠٢١

١١٦٠

٩٥١٩  
٢٠٢١

samah

## شهادة سجل صناعي

رقم السجل: 1320111801007474 (2021)

تاريخ الإصدار: 11/08/2021 تاريخ الإنتهاء: 19/05/2026

اسم المنشأة الصناعية: احمد مصطفى عبد الغنى وشريكه عمر عبد العزيز عبد الفتاح

اسم الشركة: احمد مصطفى عبد الغنى وشريكه عمر عبد العزيز عبد الفتاح

السمة التجارية: مصر للمسبوكات الكيان القانوني: تضامن

عنوان المنشأة الصناعية: شارع مسبك خليل - العكرشه - ابو زعبل - الخانكة - القليوبية

23989

م	إسم المنتج	كود المنتج	الطاقة الإنتاجية الإسمية السنوية	
			الوحدة	الكمية
1	مواسير ضغط عالي من الزهر المرن من 100 مم الي 1000 مم	7303000200	طن	220.00 (مائتان و عشرون )
2	غطاء بلاعات وغرف تفتيش زهر	7325100011	طن	140.00 (مائة و أربعون )
3	حنفية حريق	7418200030	طن	100.00 (مائة )
4	محابس لشبكات المياه والصرف	7325100094	طن	300.00 (ثلاثمائة )
5	مسبوكات من نحاس متنوعة	7407290091	طن	60.00 (ستون )
6	درج سلم معدني	7308909035	طن	100.00 (مائة )
7	لوازم مواسير زهر لشبكات المياه والصرف	7307990020	طن	400.00 (أربعمائة )
8	مواسير صرف صحي من زهر من 2- 6 بوصة	7303000011	طن	80.00 (ثمانون )

لحين استكمال مدة القيد.

١٠٥١



تاريخ الطباعة: PM 04:22 11/08/2021

صفحة 1 من 1

حررت هذه الشهادة وفقا لأحكام القانون رقم ٢٤ لسنة ١٩٧٧ ، ولاتحته التنفيذية وتعديلاتها والقرارات المنظمة له ، ووفقا للبيانات والمستندات المقدمة من المنشأة المذكورة ويرتبط سريان هذا السجل باستمرار صحة المستندات الصادرة عنه . ولا تزول هذه الشهادة لصاحبها أى حقوق تتعلق بملكية المنشأة .

٧٨١

## رخصة تشغيل دائمة بنظام المسبق

رقم الرخصة: 1320111802014565

تاريخ الإصدار: 28/07/2021

اسم المنشأة الصناعية: احمد مصطفى عبد الغنى وشريكه عمر عبد العزيز عبد الفتاح

اسم الشركة: احمد مصطفى عبدالغنى وشريكه عمر عبدالعزيز عبدالفتاح

الكيان القانوني: تضامن السمة التجارية: مصر للمسبوكات

عنوان المنشأة الصناعية: شارع مسبك خليل - العكرشه - ابو زعبل - الخانكة - القليوبية

القوى المحركة (كيلو وات): من 1000:501 ك/ات

44655

م	مسمى النشاط	كود النشاط
1	صنع مسبوكات النحاس	243210
2	صنع أدوات صحية معدنية و أجزاءها مطلية وغير مطلية بدون سبك	259950
3	اعمال حدادة و كريتال	251130
4	صنع مسبوكات الحديد الزهر	243120

٢٠٢١ / ٧ / ٢٩



تاريخ الطباعة: PM 03:17 29/07/2021

صفحة 1 من 1



حسب هذه الرخصة وفقاً لأحكام القانون رقم ١٥ لسنة ٢٠١٧، وللجنة التنفيذية للمنطقة له، ووفقاً للبيانات والمستندات المقدمة من المنشأة المذكورة وربطت برمان هذه الرخصة باستعراض صحة المستندات الصادرة عنها، وتلبية الاضمانات المقررة لها، والتزم بسداد رسوم المتابعة السنوية، ولا تحول لمصاحبهها أو حقوق تتعلق بملكية المنشأة

٢٠٢١ / ٧ / ٢٩

# Non- rising stem Resilient Seated Gate Valve

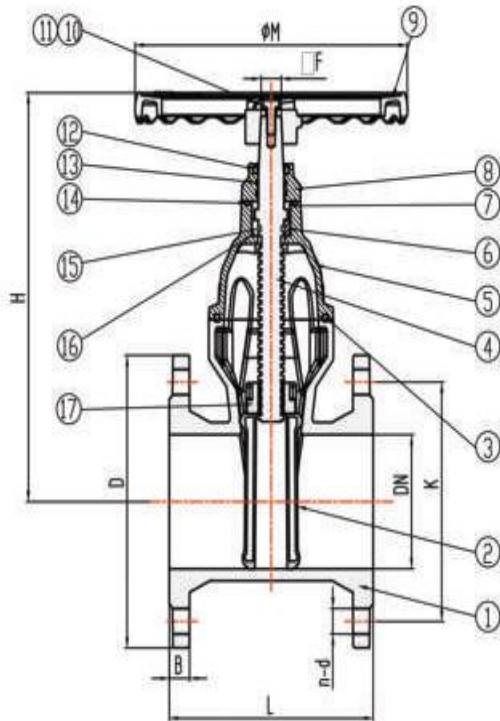


## Reference Standard

Design	EN 1171
Fange	EN 1092-2
Face to Face	DIN3352-F4
Tests	EN 12266-1

## Main Technical Parameters

DN	DN40-300	
PN	1.6 MP <sub>a</sub>	
Test pressure	Strength	2.4 MP <sub>a</sub>
	Seal	1.8 MP <sub>a</sub>
Temperature	0-80C	
Medium	Clear, savage, air	
Drive form	Handwheel	



16	Stem Nut	CuZn39Phl	EN12167
15	O Ring	NBR	ISO 4633
14	O Ring	NBR	ISO 4633
13	O Ring	NBR	ISO 4633
12	O Ring	NBR	ISO 4633
11	Washers	Carbon meel	ASTM A959
10	Bolts	Carbon meel	ASTM A959
9	Handwheel	GG25	DIN 1693
8	Thrust Nut	GG25	DIN 1693
7	Holding Ring	CuZn39Phl	EN 1267
6	Thrust Washer	CuZn39Phl	EN 12167
5	Bonnet	CGG50	DIN 1693
4	Stem	SS420	ASTM A959
3	Bonnet Gasket	NBR	ISO 4633
2	Disc	EPIN-CGG50	DIN 1693
1	Body	CGG50	DIN 1693
ITEM	PART NAME	MATERIAL	STANDARD

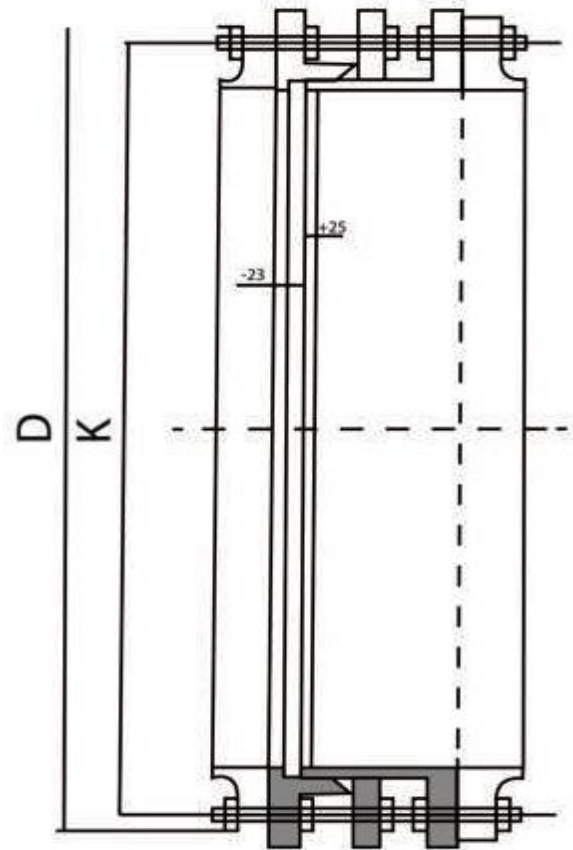
DN	OUTLINE MM	END FLANGE PN10/16 MM				OUTLINE MM			Number of turns to open
	L	EN1092-2				ØM	H	F	
	DIN3202-F4	D	K	n-d	B				
40	140	150	110	4-Ø19	19	Ø 180	215	14	8
50	150	165	125	4-Ø19	19	Ø 180	215	14	9
65	170	185	145	4-Ø19	19	Ø 200	250	17	10
80	180	200	160	8-Ø19	19	Ø 200	275	17	12
100	190	220	180	8-Ø19	19	Ø 200	320	19	12
125	200	250	210	8-Ø19	19	Ø 254	355	19	14.5
150	210	285	240	8-Ø23	19	Ø 280	398	19	17
200	230	340	295	8-Ø23/12- Ø23	20	Ø 315	495	24	18.5
250	250	395/405	350/355	12-Ø23/12- Ø28	22	Ø 406	590	27	23
300	270	455/460	400/410	12-Ø23/12- Ø23	24.5	Ø 406	670	27	27



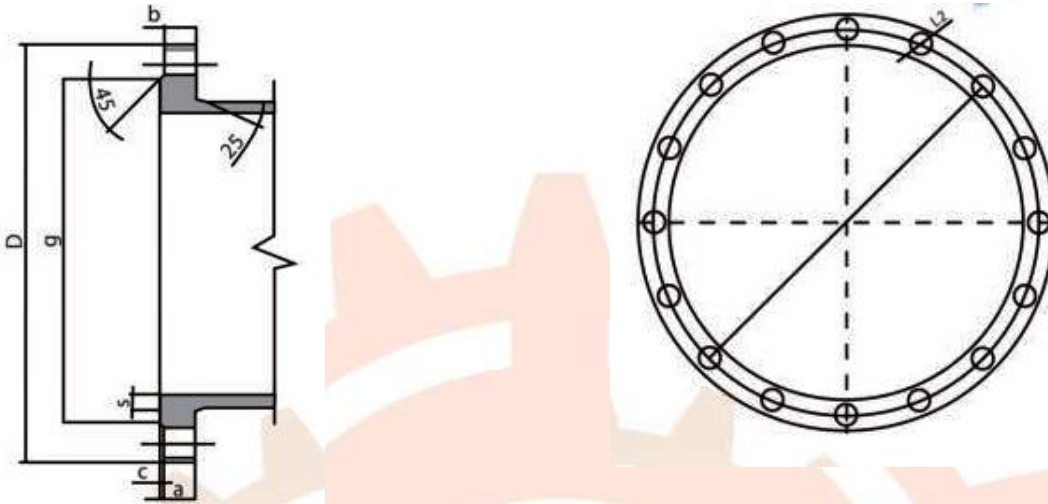
## Dismantling Joint



DN	PN10		PN16	
	L	I	L	I
100	200	310	200	310
15	200	310	200	310
150	200	320	200	320
200	220	340	220	340
250	220	360	230	370
300	220	360	250	410
350	230	360	260	410
400	230	370	270	430
450	250	390	270	430
500	260	400	280	440
600	260	410	300	480
700	260	410	300	480
800	290	460	320	520
900	290	460	320	520
1000	290	480	340	560
1100	300	480	340	560
1200	320	520	360	600
1400	360	560	360	630
1500	380	590	400	700
1600	390	600	400	700



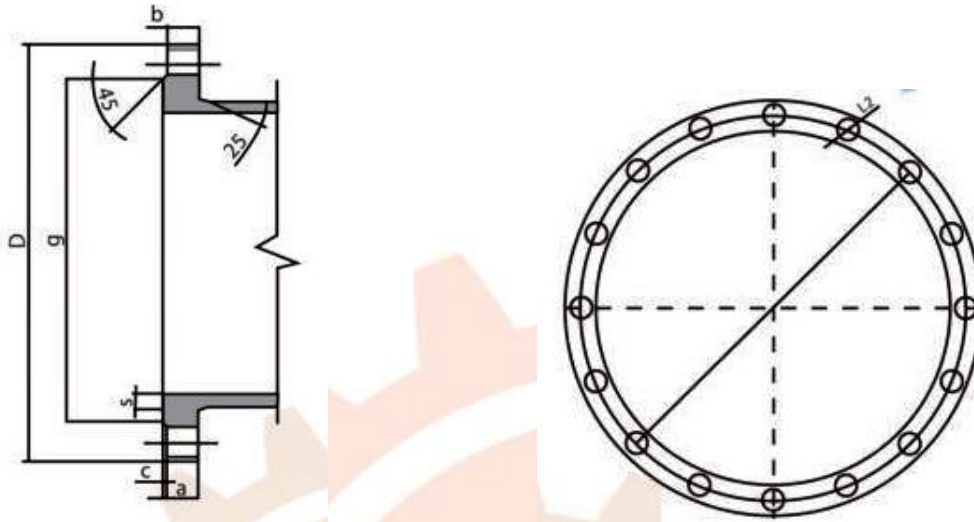
## Drilling Details & Dimensions of PN10 Flanges



### Dimensions in mm

DN	D	G	A	B	C	S	K	Holes		Bolts
								No.	Diam.L 2	Nominal Diam.
100	220	156	19	16	3	15	180	8	19	M16
150	285	211	19	16	3	15	240	8	23	M20
200	340	266	20	17	3	16	295	8	23	M20
250	400	319	22	19	3	17.5	350	12	23	M20
300	455	370	24.5	20.5	4	19.5	400	12	23	M20
350	505	429	24.5	20.5	4	19.5	460	16	23	M20
400	565	480	24.5	20.5	4	19.5	515	16	28	M2
450	615	527	25.5	21.5	4	20.5	565	20	28	M24
500	670	582	26.5	22.5	4	21	620	20	28	M24
600	780	682	30	25	5	24	725	20	31	M27
700	895	794	32.5	27.5	5	23	840	24	31	M27
800	1015	901	35	30	5	24.5	950	24	34	M30
900	1115	1001	37.5	32.5	5	26.5	1050	28	34	M30
1000	1230	1112	40	35	5	28	1160	28	37	M33
1200	1455	1328	45	40	5	31.5	1380	32	40	M36

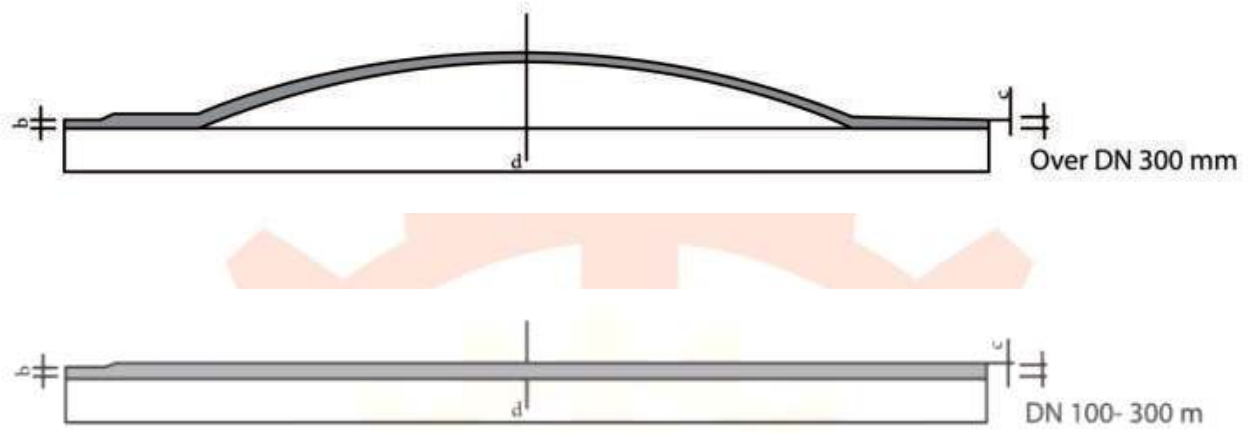
## Drilling Details & Dimensions of PN16 Flanges



### Dimensions in mm

DN	D	G	A	B	C	S	K	Holes		Bolts
								No.	Diam.L 2	Nominal Diam.
100	220	156	19	16	3	15	180	8	19	M16
150	285	211	19	16	3	15	240	8	23	M20
200	340	266	20	17	3	16	295	12	23	M20
250	400	319	22	19	3	17.5	355	12	28	M24
300	455	370	24.5	20.5	4	19.5	410	12	28	M24
350	520	429	26.5	22.5	4	21	470	16	28	M24
400	580	480	28	24	4	22.5	525	16	31	M27
450	640	544	30	26	4	23	585	20	31	M27
500	715	609	31.5	27.5	4	25	650	20	34	M30
600	840	720	36	31	4	29	770	20	37	M33
700	910	794	39.5	34.5	5	27.5	840	24	37	M33
800	1025	901	43	38	5	30	950	24	40	M36
900	1125	1001	46.5	41.5	5	32.5	1050	28	40	M36
1000	1255	1112	50	45	5	3	1170	28	43	M39
1200	1485	1328	57	52	5	40	1390	32	49	M45

## Drilling Details & Dimensions Flanges



**PN10 Dimensions in mm Masses in kg**

DN	D	a	b	c	Mass (approx)
100	22	19	16	3	4.3
150	285	19	16	3	7.2
200	340	20	17	3	11
250	400	22	19	3	16.9
300	455	24.5	20.5	4	24
350	505	24.5	20.5	4	29.5
400	565	24.5	20.5	4	36.5
500	670	26.5	22.5	4	56
600	78	30	25	5	85
700	895	32.5	27.5	5	123
800	1015	35	30	5	172
900	1115	37.5	32.5	5	224
1000	1230	40	35	5	293
1200	1455	45	40	5	575

**PN16 Dimensions in mm Masses in kg**

DN	D	a	b	c	Mass (approx)
100	220	19	16	3	4.3
150	285	19	16	3	7.2
200	340	20	17	3	10.8
250	400	22	19	3	16.8
300	455	24.5	20.5	4	32.5
350	520	26.5	22.5	4	33.5
400	580	28	24	4	44.5
500	715	31.5	27.5	4	77
600	840	36	31	5	121
700	910	39.5	34.5	5	156
800	1025	43	38	5	218
900	1125	46.5	41.5	5	286
1000	1255	50	45	5	387
1200	1485	57	52	5	662

## Puddle Flanges



PN10 Dimensions in mm Masses in kg

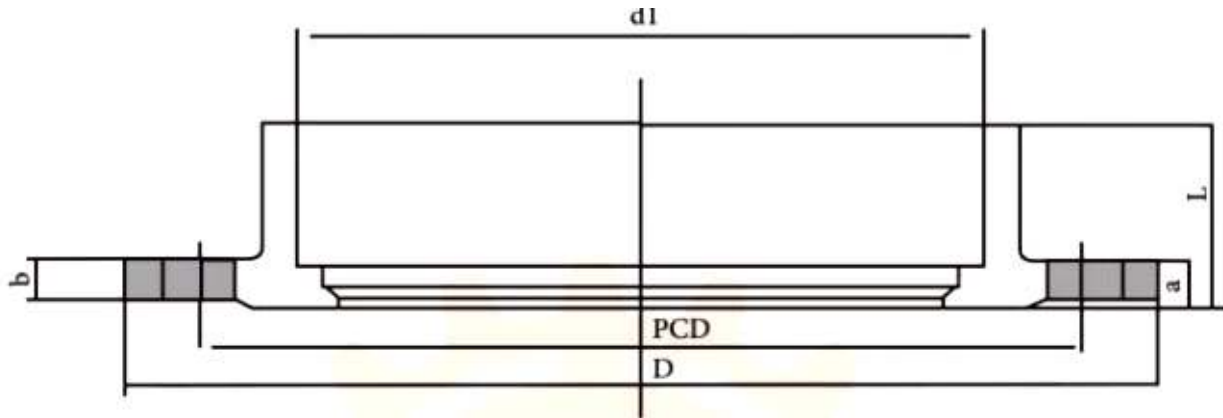
DN	d1	D	b	Mass (approx) with flange
100	118	220	19	3.3
150	170	285	19	4.9
200	222	340	20	6.8
250	274	400	22	9.8
300	326	455	24.5	13
350	378	505	24.5	14
400	429	565	24.5	16
500	532	670	26.5	23
600	635	780	30	31
700	738	895	32.5	40.5
800	842	1015	35	55
900	945	1115	37.5	84.5
1000	1048	1230	40	81.5
1200	1255	1455	45	120.9

PN16 Dimensions in mm Masses in kg

DN	d1	D	b	Mass (approx) with flange
100	118	220	19	3.3
150	170	285	19	4.9
200	222	340	20	6.6
250	274	400	22	9.2
300	326	455	24.5	12
350	378	520	26.5	17
400	429	580	28	22
500	532	715	31.5	37
600	635	840	36	57
700	738	910	39.5	59
800	842	1025	43	74
900	945	1125	46.5	88
1000	1048	1255	50	123
1200	1255	1485	57	185

## PN10 Neck Flanges

### Masses-Dimensions and Drilling Details

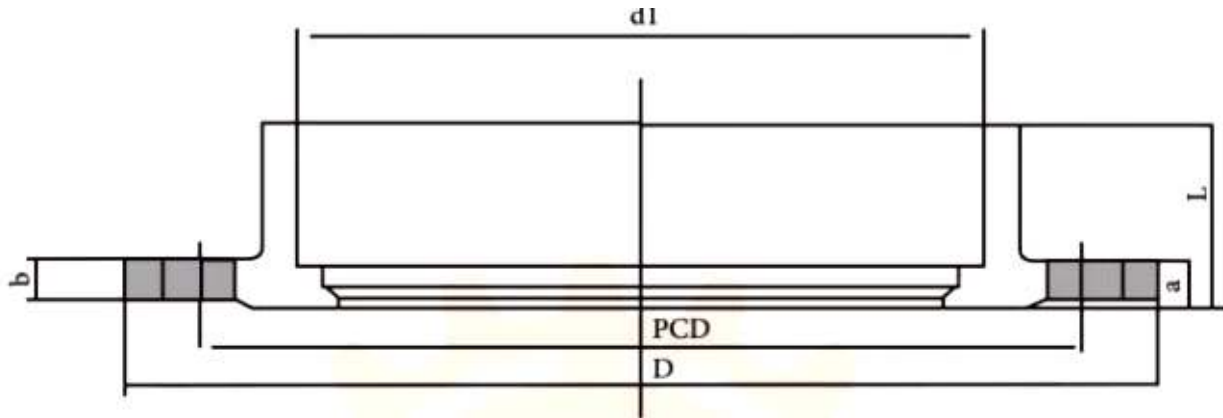


### Dimensions in mm

DN	D	d1	g	a	b	L	Hols			Bolt Sizes		Mass (Kg)
							PCO	No.	Dia.	Diam.	Length	
80	200	98	132	19	16	43	160	8	19	M16	65	3.5
100	220	118	165	19	16	45	180	8	19	M16	65	4.5
150	285	170	211	19	16	50	240	8	23	M20	70	6.5
200	340	222	266	20	17	55	295	8	23	M20	80	9.1
250	400	274	319	22	19	60	350	12	23	M20	80	12.8
300	455	326	370	24.5	20.5	65	400	12	23	M20	80	16.9
350	505	378	429	24.5	20.5	70	460	16	23	M20	85	19
400	565	429	480	24.5	20.5	75	515	16	28	M24	85	22
450	615	380	517	25.5	21.5	80	565	20	28	M24	90	27
500	670	532	582	26.5	22.5	85	620	20	28	M24	100	31
600	780	635	682	30	25	95	725	20	31	M27	110	41.75
700	895	738	794	32.5	27.5	105	840	24	31	M27	110	54.5
800	1015	842	901	35	30	115	950	24	24	M30	120	72
900	1115	945	1001	37.5	32.5	125	1050	28	24	M30	130	85.5
1000	1230	1048	1112	40	35	135	1160	28	37	M33	130	106
1100	1340	1152	1215	42.5	37.5	145	1270	32	37	M33	140	140
1200	1455	1255	1328	45	40	155	1380	32	40	M36	140	154

## PN16 Neck Flanges

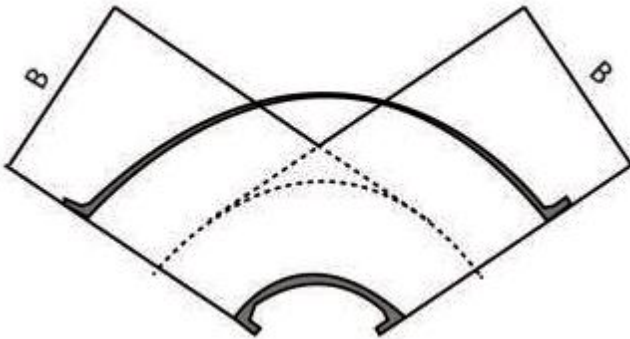
### Masses-Dimensions and Drilling Details



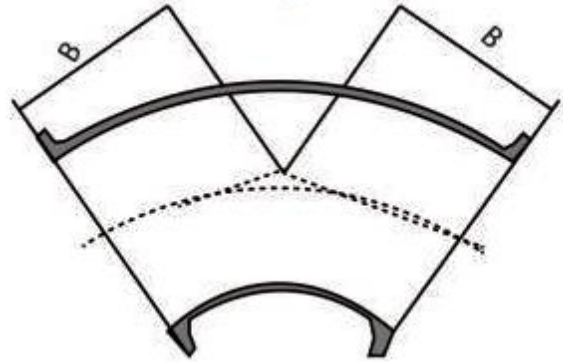
### Dimensions in mm

DN	D	d1	g	a	b	L	Hols			Bolt Sizes		Mass (Kg)
							PCO	No.	Dia.	Diam.	Length	
80	200	98	132	19	16	43	160	8	19	M16	65	3.5
100	220	118	165	19	16	45	180	8	19	M16	65	4.5
150	285	170	211	19	16	50	240	8	23	M20	70	6.5
200	340	222	266	20	17	55	295	12	23	M20	70	9.1
250	400	274	319	22	19	60	355	12	28	M24	85	12.8
300	455	326	370	24.5	20.5	65	410	12	28	M24	85	16.9
350	520	378	429	26.5	22.5	70	470	16	28	M24	85	23
400	580	429	840	28	24	75	525	16	31	M27	100	28
450	640	380	544	30	26	80	585	20	31	M27	100	38
500	715	532	609	31.5	27.5	85	650	20	34	M30	110	45
600	840	635	720	36	31	95	770	20	37	M33	120	68
700	910	738	794	39.5	34.5	105	840	24	37	M33	130	72
800	1025	842	901	43	38	115	950	24	40	M36	140	91
900	1125	945	1001	46.5	41.5	125	1050	28	40	M36	140	108.5
1000	1255	1048	1112	50	45	135	1170	28	43	M39	160	147
1100	1355	1152	1215	43.5	48.5	145	1270	32	43	M39	160	190
1200	1785	1255	1328	57	52	155	1390	32	49	M45	160	210

## Puddle Flanges



90 Degrees Double Flanged Bend



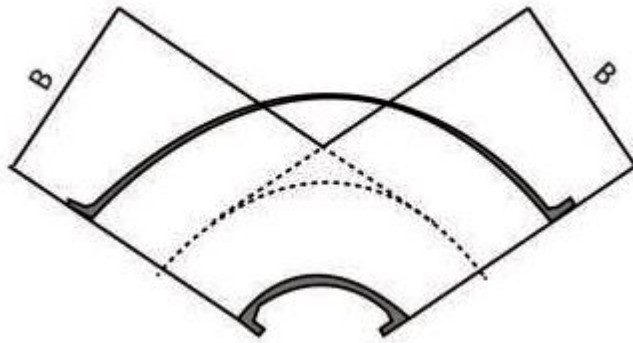
45 Degrees Double Flanged Bend

DN	B	PN10	PN16
		9.6	9.6
80	165	9.6	9.6
100	180	11.9	11.9
150	220	20	20
200	260	31	30.5
250	350	50	49.5
300	400	70	70
350	450	90	96
400	500	116	127
450	550	147	163
500	600	181	211
600	700	272	325
700	800	386	416
800	900	533	572
900	1000	698	745
1000	1100	907	990
1100	1200	1164	123
1200	1300	1452	1562

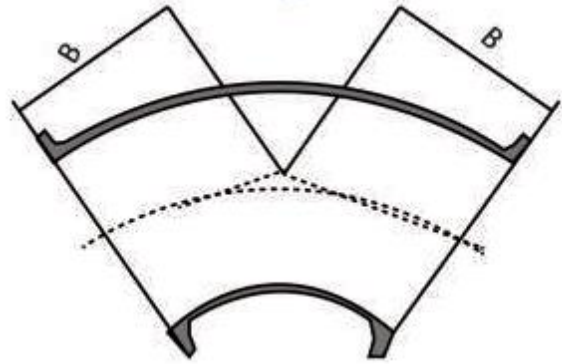
DN	B	PN10	PN16
		9.3	9.3
80	130	9.3	9.3
100	140	11.3	11.3
150	160	18.5	18.5
200	180	27.5	27
250	350	55	54
300	400	78	77
350	298	76	83
400	324	49	107
450	349	120	135
500	375	145	175
600	426	212	266
700	478	296	326
800	529	403	442
900	581	519	567
1000	632	668	751
1100	683	857	927
1200	750	1050	1178



## Flanged Bends Specifications



22.5 Degrees Double Flanged Bend

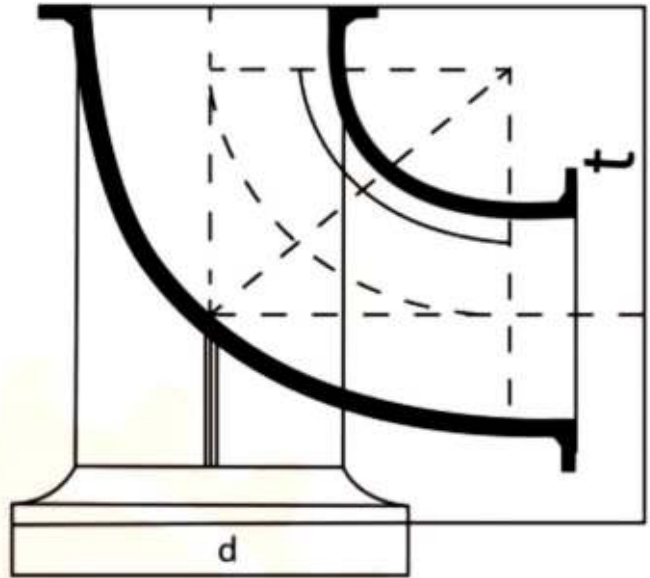


11.5 Degrees Double Flanged Bend

DN	B	PN10	PN16
		80	165
100	180	11.9	11.9
150	220	20	20
200	260	31	30.5
250	350	50	49.5
300	400	70	70
350	450	90	96
400	500	116	127
450	550	147	163
500	600	181	211
600	700	272	325
700	800	386	416
800	900	533	572
900	1000	698	745
1000	1100	907	990
1100	1200	1164	123
1200	1300	1452	1562

DN	B	PN10	PN16
		80	130
100	140	11.3	11.3
150	160	18.5	18.5
200	180	27.5	27
250	350	55	54
300	400	78	77
350	298	76	83
400	324	49	107
450	349	120	135
500	375	145	175
600	426	212	266
700	478	296	326
800	529	403	442
900	581	519	567
1000	632	668	751
1100	683	857	927
1200	750	1050	1178
1400	775	1388	1524
1500	810	1677	1853
1600	845	1915	2119
1800	910	2465	2717
2000	980	3149	3455
2100	850	3204	3532
2200	880	3446	3804
2400	945	4277	4719
2600	1005	5175	5659

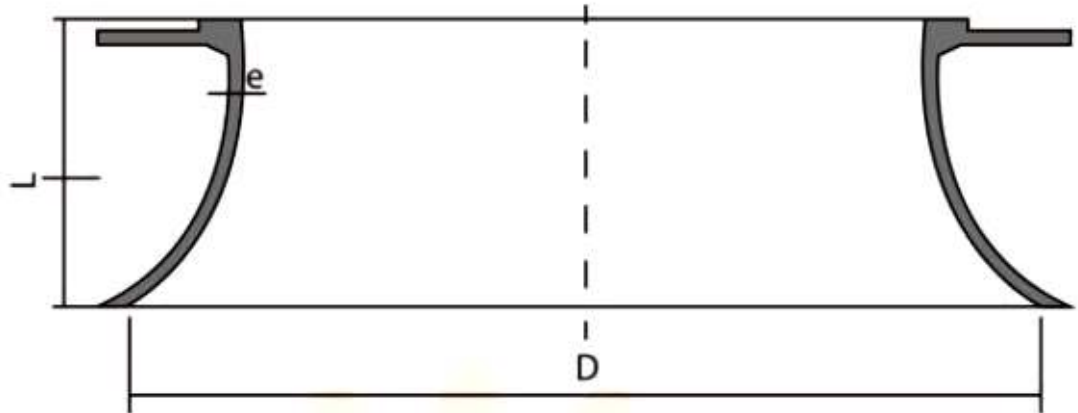
## Double Fanged 90 Duckfoot Bed



### Dimensions in mm Masses in kg

DN	e	t	c	d	PN10	PN16
					17.3	17.8
100	7.2	180	125	200	17.3	17.8
150	7.8	220	160	250	30	30
200	8.4	250	190	300	46.5	46
250	9	350	225	350	75	75
300	9.6	400	255	400	106	105
350	10.2	450	290	450	139	145
400	10.8	500	320	500	178	189
500	12	600	385	600	283	313
600	13.2	700	450	700	428	481
700	14.4	800	515	800	624	650
800	15.6	900	580	900	861	89
900	16.8	1000	645	1000	1122	1164
1000	18	1100	710	1100	1458	1537
1200	20.4	1300	840	1300	2311	2433

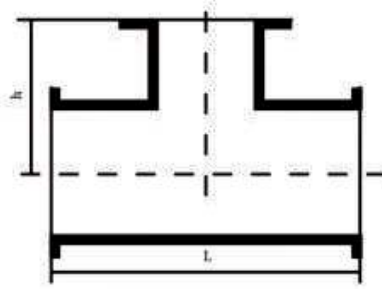
## Flanged Bell Mouth



Dimensions in mm Masses in kg

DN	D	E	L	PN10	PN16
100	175	7.2	135	6.2	6.2
150	230	7.8	150	10.1	10.1
200	290	8.4	170	15	17.8
250	345	9	183	21	20.5
300	405	9.6	205	28.5	28.5
350	460	10.2	220	35.5	38
400	520	10.8	240	45	49
450	575	11.	255	54	62
500	635	12	275	67	80
600	750	13.2	310	96.5	120
700	865	14.4	345	135	148
800	980	15.6	380	182	497
900	1095	16.8	415	231	250
1000	1210	18	450	297	331
1200	1440	20.4	520	457	512

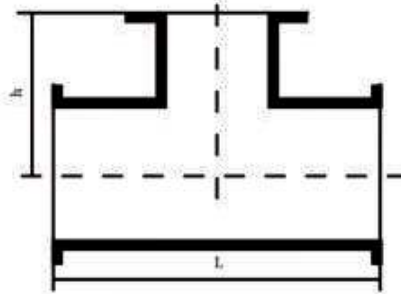
# All Flanged Tee DN 100 to DN 500



Dimensions in mm Masses in kg

Body			BRANCH				
DN	E	L	DN	E1	H	PN10	PN16
100	8.4	360	80	8.1	175	18.4	18.4
	8.4	360	100	8.4	180	19.4	19.4
150	9.1	440	80	8.1	205	28.5	28.5
	9.1	440	100	8.4	210	29.5	29.5
	9.1	520	150	9.1	220	32.5	32.5
200	9.8	520	80	8.1	235	42	41.5
	9.8	520	150	9.1	250	46	45.5
	9.8	700	200	9.8	260	49.5	49
250	10.5	700	100	8.4	275	68	67
	10.5	700	150	9.1	300	72	71.5
	10.5	700	200	9.8	325	76	75
	10.5	800	250	10.5	350	82	81
300	11.5	800	100	8.4	300	94	93
	11.2	400	150	9.1	325	98	97
	11.2	800	200	9.8	350	102	101
	11.2	400	300	11.2	400	116	115
350	11.9	850	100	8.4	325	116	122
	11.9	850	150	9.1	325	120	126
	11.9	850	200	9.8	325	121	128
	11.9	850	200	11.2	425	140	145
	11.9	850	350	11.9	425	142	151
400	12.6	900	80	8.1	350	144	154
	12.6	900	100	8.4	350	143	154
	12.6	900	150	9.1	350	148	157
	12.6	900	200	9.8	350	148	159
	12.6	900	300	11.2	450	167	176
	12.6	900	400	12.6	450	174	191

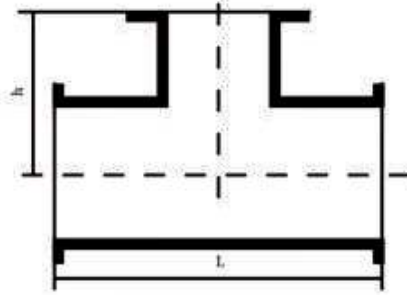
## All Flanged Tee DN 600 to DN 1000



Dimensions in mm Masses in kg

DN	Body		BRANCH				
	E	L	DN	E1	H	PN10	PN16
600	15.4	1100	100	8.4	450	304	354
	15.4	1100	150	9.1	450	307	356
	15.4	1100	200	9.8	450	305	358
	15.4	1100	300	11.2	550	328	375
	15.4	1100	400	12.6	550	329	387
	15.4	1100	600	15.4	550	355	434
700	16.8	650	200	9.8	525	258	298
	16.8	870	300	11.2	540	344	370
	16.8	870	400	12.6	555	343	379
	16.8	1200	600	15.4	600	480	528
	16.8	1200	700	16.8	600	477	523
800	18.2	690	100	8.4	570	345	390
	18.2	690	200	9.8	585	352	390
	18.2	910	300	11.2	600	443	478
	18.2	910	100	12.6	615	441	848
	18.2	1350	500	14	630	607	657
	18.2	1350	600	15.4	645	613	678
	18.2	1350	800	18.2	675	657	715
900	19.6	730	200	9.8	645	736	484
	19.6	950	400	12.6	675	541	594
	19.6	1500	500	14	69	781	842
	19.6	1500	600	15.4	705	787	860
	19.6	1500	800	18.2	735	860	913
	19.6	1500	900	19.6	750	853	924
1000	21	770	200	9.8	705	546	929
	21	990	400	12.6	735	668	755
	21	1350	600	14.5	765	1007	1116
	21	1650	800	18.2	795	4085	1168
	21	1650	1000	21	825	1105	1229

## All Flanged Tee DN 1200 to DN 1800



Dimensions in mm Masses in kg

DN	Body		BRANCH				
	E	L	DN	E1	H	PN10	PN16
1200	23.8	850	200	9.8	825	842	965
	23.8	1070	400	12.6	855	1003	1131
	23.8	1250	600	15.4	885	1101	1256
	23.8	1450	800	18.2	915	1291	1439
	23.8	1700	1000	21	945	1494	1664
	23.8	1950	1200	23.8	975	1785	1970

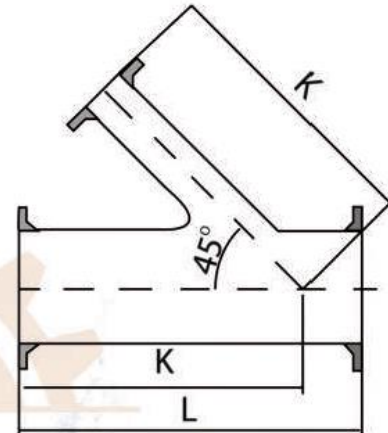
# Egypt Casting

## EC

## Flanged Tees Specification

### All flanged Angle Branch

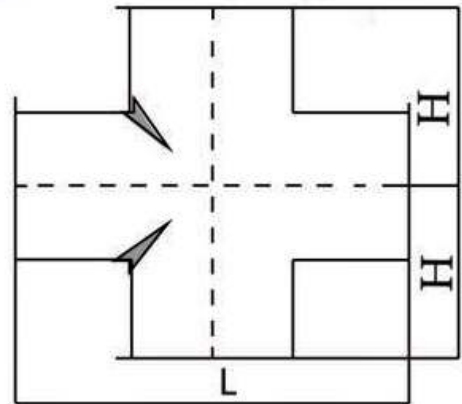
Nominal size		Dimensions		Mass with flage
DN	Dn	L	H	
80	80	500	375	20.5
100	100	540	405	24.5
150	150	640	780	40.2
200	200	735	560	29.3
250	250	830	640	97.7
300	300	930	715	142.8
350	350	950	790	188.2
400	400	970	870	235.8
450	450	1060	950	286
500	500	1140	1025	369.7
600	600	1310	1180	541.9



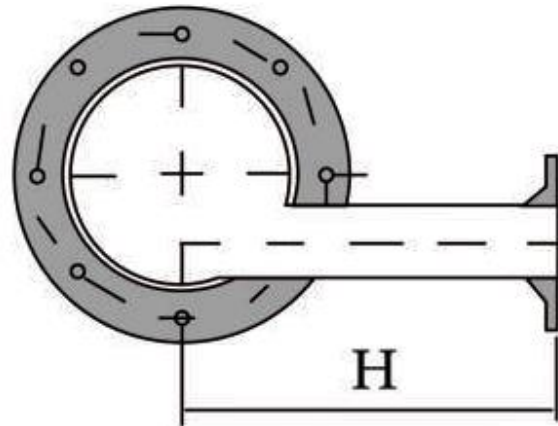
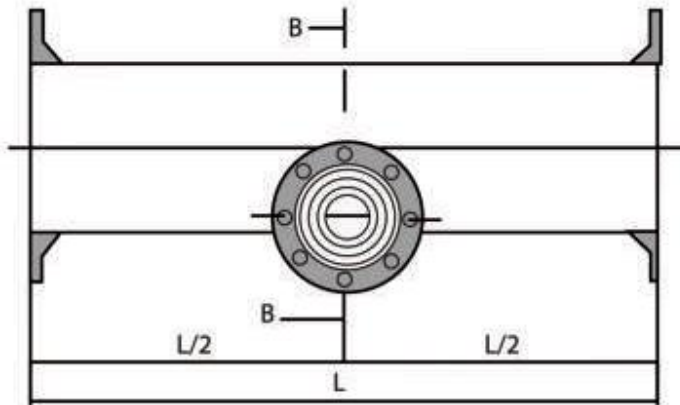
# Egypt Casting

### All flanged Cross

Nominal size		Dimensions		Mass with flage
DN	Dn	L	H	
80	80	330	165	20.5
100	100	380	180	24.5
150	150	440	220	40.2
200	200	520	280	29.3
250	250	700	350	97.7
300	300	800	400	142.8
350	350	850	425	188.2
400	400	900	450	235.8
450	450	950	475	286
500	500	1000	500	269.7
600	600	1100	550	541.9



## Flanged Tees Specification



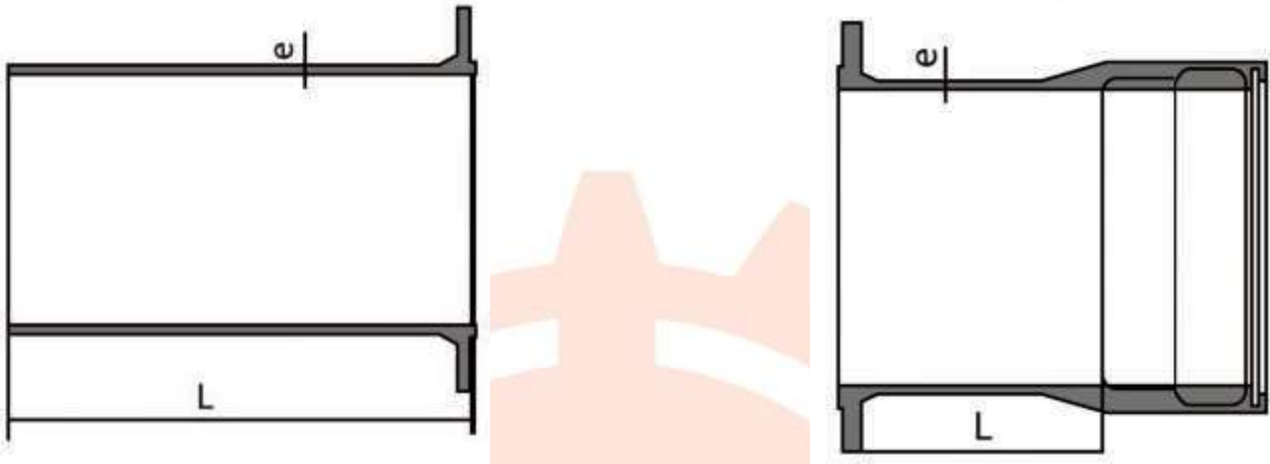
### All flanged level invert Tee

Nominal size		Dimensions		Mass with flage
DN	Dn	L	H	
100	60	360	195	19.5
150	60	440	220	29.5
200	60	520	250	42.5
	100	520	250	43.5
250	60	700	275	66
	100	700	275	66
300	60	600	305	92
	100	600	305	95.5
	150	800	340	99
350	60	600	340	121
	100	650	340	123
	150	850	340	126
400	60	650	365	153
	100	900	365	156
	150	900	365	162
	200	900	365	167
450	60	950	380	168
	100	950	380	169
	150	950	360	197
	200	950	360	202
500	60	1000	400	237
	100	1000	400	241
	150	1000	400	246
	200	1000	400	255

Nominal size		Dimensions		Mass with flage
DN	Dn	L	H	
600	150	1100	450	350
	200	1100	450	351
	150	1100	450	360
	200	1100	450	370
700	150	600	500	262
	200	650	500	266
600	150	670	540	379
	200	690	540	366
900	150	720	580	461
	200	730	580	463
1000	150	770	630	625
	200	770	630	627



## Flanged Spigot / Socket

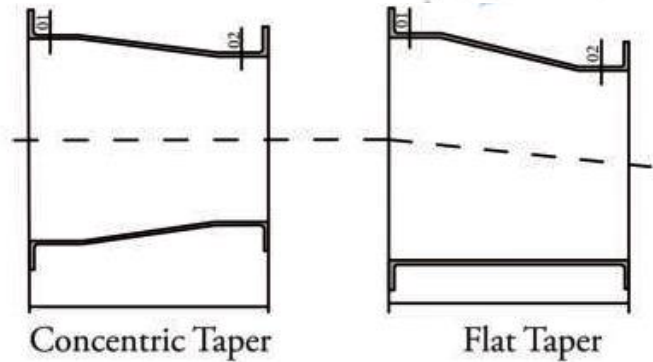


### Dimensions in mm Masses in kg

DN	Dn	L	PN10	PN16
100	7.2	360	9.6	9.6
150	7.8	380	15.6	15.6
200	8.4	400	22.5	22.5
250	9	420	32	31.5
300	9.6	440	43	42.5
350	10.2	460	52	55
400	10.8	480	64	70
450	11.4	500	77	86
500	12	520	94	109
600	13.2	560	133	159
700	14.4	600	179	194
800	15.6	600	226	245
900	16.8	600	272	295
1000	18	600	328	396
1200	20.4	600	456	520
1400	22.8	710	664	732
1500	24	745	812	900
1600	25.2	780	922	1024
1800	27.6	850	1196	1322

DN	Dn	L	PN10	PN16
100	7.2	130	9	9
150	7.8	135	14.2	14.2
200	8.4	140	20.5	20
250	9	145	28	27.5
300	9.6	150	37	36.5
350	10.2	155	45	48
400	10.8	160	55	60
450	11.4	165	70	78
500	12	170	78	93
600	13.2	180	105	135
700	14.4	190	144	159
800	15.6	200	189	208
900	16.8	210	235	258
1000	18	220	293	324
1200	20.4	240	456	521
1400	22.8	310	654	732
1500	24	320	770	857
1600	25.2	330	887	989
1800	27.6	350	1125	1251

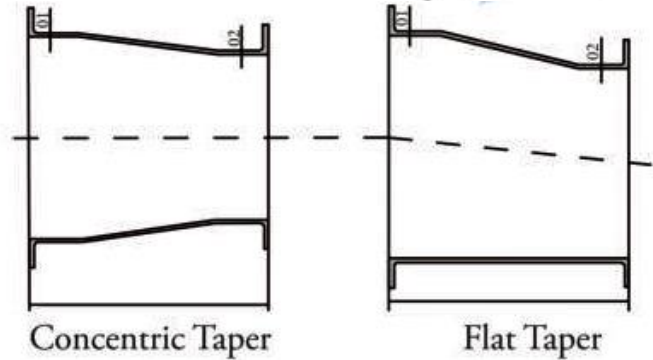
## Double Flanged Taper



Dimensions in mm Masses in kg

Lager diameter		Smaller diameter		L	PN10	PN16
DN	e1	DN	e2			
100	7.2	80	7	200	9.3	9.3
150	7.8	80	7	200	12.2	12
150	7.8	100	7.2	200	12.8	12.8
200	8.4	100	7.2	300	18.6	18.4
200	8.4	150	7.3	300	22	21.5
250	9	150	7.8	300	27	29.5
250	9	200	8.4	300	30	29.5
300	9.6	100	7.2	300	29.5	29
300	9.6	150	7.2	300	32.5	32
300	9.6	200	8.4	300	35.5	35
300	9.6	250	9	300	40.5	39.5
350	10.2	200	8.4	300	61.5	64
350	10.2	250	9	300	45	47.5
350	10.2	300	9.6	300	49.5	52
400	10.8	200	8.4	300	45.5	50.5
400	10.8	250	9	300	50.5	55
400	10.8	300	9.6	300	55	59.5
400	10.8	350	10.2	300	58	67
450	11.4	250	9	700	89.5	97
450	11.4	300	9.6	650	93.5	101
450	11.4	350	10.2	600	95.6	106
450	11.4	400	10.8	300	70.5	83
500	12	300	9.6	700	109	122
500	12	350	10.2	650	111	127
500	12	400	10.3	600	110	130
500	12	450	11.4	650	83	104
600	13.2	350	10.2	750	149	174
600	13.2	400	10.8	600	135	165
600	13.2	450	11.4	650	151	183
600	13.2	500	12	600	149	190

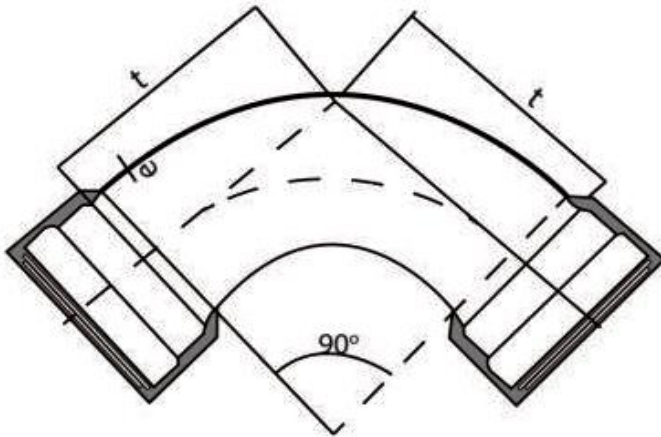
## Double Flanged Taper



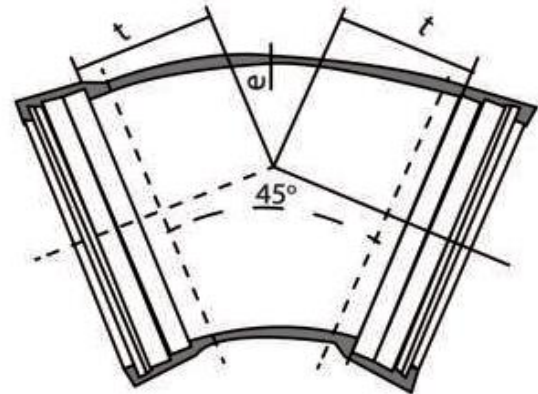
Dimensions in mm Masses in kg

Larger diameter		Smaller diameter		L		
DN	e1	DN	e2	Mm	PN10	PN16
700	14.4	400	10.8	800	169	212
	14.4	450	11.4	750	197	217
	14.4	500	12	600	179	206
	14.4	600	13.2	600	195	236
800	15.6	450	11.4	900	263	286
	15.6	600	13.2	600	233	276
	15.6	700	14.4	600	250	285
900	16.8	600	12	1000	338	370
	16.8	600	13.2	600	363	314
	16.8	700	14.4	700	321	352
	16.8	800	15.6	600	308	352
1000	18	600	13.2	1000	422	490
	18	700	14.4	800	396	442
	18	800	15.6	600	356	414
	18	900	16.8	600	373	438
1200	20.4	700	14.4	1375	711	777
	20.4	800	15.6	1160	688	758
	20.4	900	16.8	975	652	726
	20.4	1000	18	790	586	692
1400	22.8	800	15.6	1590	1034	1105
	22.8	900	16.8	1405	998	1174
	22.8	1000	18	12220	961	1052
	22.8	1200	20.7	850	814	947
1500	24	900	16.8	1620	1211	1317
	24	1000	18	1435	1174	1297
	24	1200	20.4	1065	1074	121
	24	1400	22.4	695	914	1058
1600	25.2	1000	18	1650	1424	1547
	25.2	1200	20.4	1280	1324	1968
	25.2	1400	22.8	910	1103	1273

## Double Socket 90 & 45 Bend



Double Socket 90 Bend

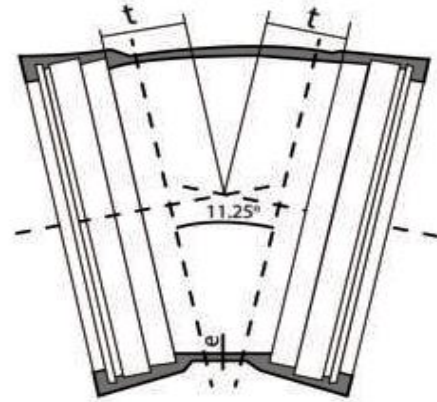
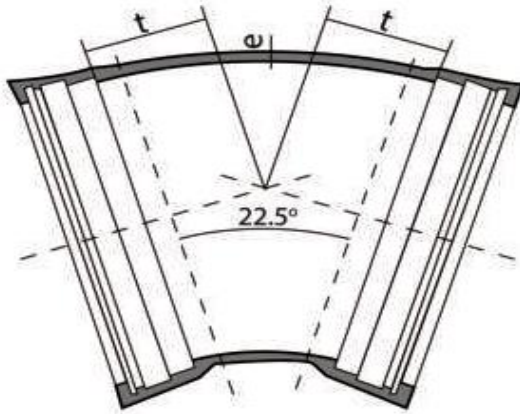


Double Socket 45 Bend

DN Mm	e Mm	t Mm	Mass kg
100	7.2	120	11.4
150	7.8	170	20.5
200	8.4	220	33
250	9	270	48.5
300	9.6	320	68
350	10.2	380.5	88
400	10.8	430	114
450	11.4	470	156
500	12	600	184
600	13.2	638	270
700	14.4	700	415
800	15.6	844	474
900	16.8	947	822
1000	18	1050	1060
1200	20.4	1220	1663

DN Mm	e Mm	t Mm	Mass kg
100	7.2	65	10.1
150	7.8	85	17.4
200	8.4	110	27
250	9	130	38.5
300	9.6	150	53
350	10.2	175	70
400	10.8	195	89
450	11.4	220	117
500	12	240	139
600	13.2	285	202
700	14.4	330	282
800	15.6	370	378
900	16.6	415	496
1000	18	460	653
1200	20.4	550	986

## Double Socket 22.5 & 11.25 Bend

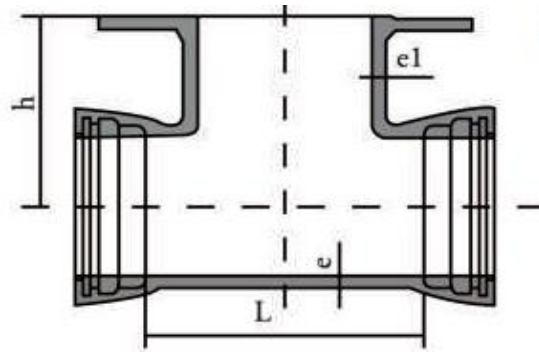


**Double Socket 22.5 Bend**

**Double Socket 45 Bend**

DN Mm	e Mm	t Mm	Mass kg
100	7.2	30	8.9
150	7.8	35	14.8
200	8.4	40	22
250	9	50	30.5
300	9.6	55	40.5
350	10.2	60	52
400	10.8	65	65
450	11.4	70	83.5
500	12	75	96
600	13.2	85	134
700	14.4	95	181
800	15.6	110	239
900	16.8	120	305
1000	18	130	381
1200	20.4	150	568
1400	22.8	130	747
1500	24	135	794
1600	25.2	140	1007
1800	27.5	155	1331

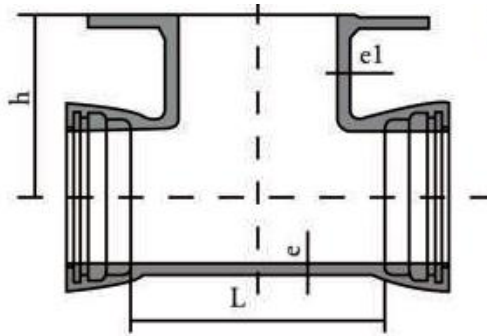
DN Mm	e Mm	t Mm	Mass kg
100	7.2	40	9.3
150	7.8	55	15.9
200	8.4	65	24
250	9	75	33.5
300	9.6	85	44.5
350	10.2	95	58
400	10.8	110	74
450	11.4	120	95
500	12	130	111
600	13.2	150	157
700	14.4	175	217
800	15.6	195	287
900	16.8	220	373
1000	18	240	470
1200	20.4	285	716
1400	22.8	260	933
1500	24	270	1011
1600	25.2	280	1259
1800	27.5	305	1663



Dimensions in mm Masses in kg

Body			BRANCH			PN10	PN16
DN	E	L	DN	E1	H		
100	8.4	170	80	8.1	175	15.8	15.8
	8.4	190	100	8.4	180	17.2	17.2
150	9.1	170	80	8.1	205	23	23
	9.1	195	100	8.4	210	24.5	24.5
	9.1	255	150	9.1	220	29.5	29.5
200	9.8	175	80	8.1	235	31.5	31.5
	9.8	200	100	8.4	240	33.5	33.5
	9.8	255	150	9.1	250	39	39
	9.8	315	200	9.8	260	45.6	46
250	10.5	180	80	8.1	265	38	38
	10.5	200	100	8.4	270	43.5	43.5
	10.5	315	150	9.1	290	59	59
	10.5	315	200	9.8	290	57	57
	10.5	375	250	10.5	300	65	66
300	11.2	180	80	8.1	295	48	48
	11.2	205	100	8.4	300	55	55
	11.2	260	150	9.1	310	56	56
	11.2	320	200	9.8	320	71	70
	11.2	435	300	11.2	340	89	91
350	11.9	205	80	8.1	330	70.5	70.5
	11.9	205	100	8.4	330	68	68
	11.9	325	150	9.1	350	87.5	86.5
	11.9	325	200	9.8	350	86	86
	11.9	440	300	11.2	370	113	113
	11.9	495	350	11.9	380	117	120
400	12.6	185	80	8.1	355	86	86
	12.6	210	100	8.4	360	81	83
	12.6	270	150	9.1	370	83	81
	12.6	325	200	9.8	380	103	102
	12.6	440	300	11.2	400	116	116
	12.6	560	400	12.6	420	150	156

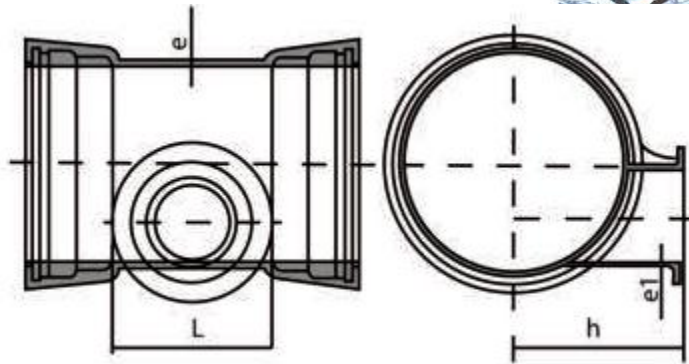
# Double Socket Tee With Flanged Branch DN 500 to DN 1000



Dimensions in mm Masses in kg

DN	Body		BRANCH			PN10	PN16
	E	L	DN	E1	H		
500	14	215	100	8.4	420	116	116
	14	330	150	9.1	430	126	126
	14	330	200	9.8	440	142	141
	14	450	300	11.2	460	156	156
	14	565	400	12.6	480	199	205
	14	680	500	14	500	232	247
600	15.4	340	80	8.1	475	163	163
	15.4	340	100	8.4	480	164	164
	15.4	340	150	9.1	490	166	166
	15.4	340	200	9.8	500	189	189
	15.4	570	300	11.2	520	230	230
	15.4	570	400	12.6	540	258	263
700	16.8	345	100	8.4	510	250	250
	16.8	345	200	9.8	525	242	242
	16.8	575	400	12.6	555	320	325
	16.8	925	600	15.4	585	457	481
	16.8	925	700	16.8	600	460	475
	800	18.2	350	100	8.4	570	325
18.2		350	500	9.8	585	306	306
18.2		580	400	12.6	615	398	403
18.2		1045	600	15.4	645	579	605
18.2		0145	800	18.2	675	632	642
900		19.6	355	200	9.8	645	379
	19.6	590	400	12.6	675	490	495
	19.6	1170	600	15.4	705	748	747
	19.6	1170	900	19.6	750	814	838
1000	21	360	200	9.8	705	462	462
	21	595	400	12.6	735	591	596
	21	1290	600	15.4	765	947	973
	21	1290	800	18.2	795	997	1178
	21	1290	1000	21	825	1044	1086

## Double Socket Level Invert Tee with Flanged Branch DN 100 to DN 400

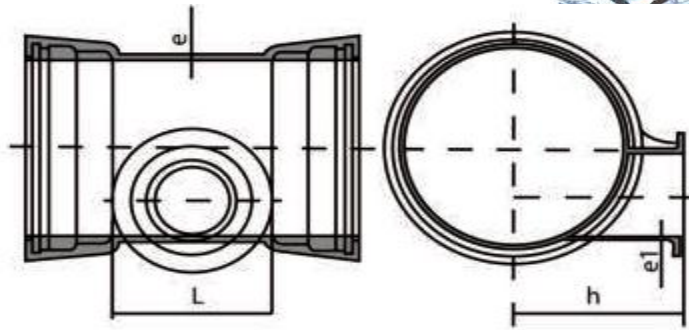


Dimensions in mm Masses in kg

Body			BRANCH			PN10	PN16
DN	E	L	DN	E1	H		
100	8.4	170	80	8.7	175	15.8	15.8
	8.4	190	100	8.4	180	17.2	17.2
150	9.1	170	80	8.1	205	23	23
	9.1	195	100	8.4	210	24.5	24.5
	9.1	255	150	9.1	220	29.5	29.5
200	9.8	175	80	8.1	235	31.5	31.5
	9.8	200	100	8.4	240	33.5	33.5
	9.8	255	150	9.1	250	39	39
	9.8	315	200	9.8	260	45.6	46
250	10.5	180	80	8.1	265	38	38
	10.5	200	100	8.4	270	43.5	43.5
	10.5	315	150	9.1	290	59	59
	10.5	315	200	9.8	290	57	57
	10.5	175	250	10.5	300	65	65
300	11.2	180	80	8.1	295	84	48
	11.2	205	100	8.4	300	55	55
	11.2	260	150	9.4	310	56	56
	11.2	320	200	9.8	320	71	70
	11.2	435	300	11.2	340	89	91
350	11.9	205	80	8.1	360	70.5	70.5
	11.9	205	100	8.4	360	68	68
	11.9	325	150	9.1	350	87.5	87.5
	11.9	325	200	9.8	350	86	86
	11.9	440	300	11.2	370	113	113
	11.9	495	350	11.9	380	117	120
400	12.6	185	80	8.1	355	86	86
	12.6	210	100	8.4	360	83	83
	12.6	270	150	9.1	370	81	81
	12.6	325	200	9.8	380	102	102
	12.6	440	300	11.2	400	116	116
	12.6	560	400	12.6	420	156	156



## Double Socket Level Invert Tee with Flanged Branch DN 500 to DN 1000



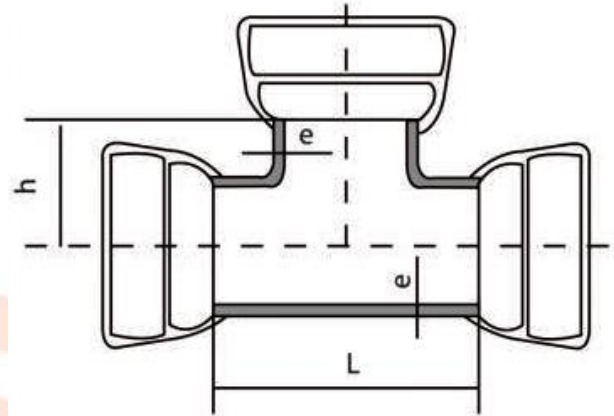
Dimensions in mm Masses in kg

DN	Body		BRANCH			PN10	PN16
	E	L	DN	E1	H		
500	14	215	100	8.4	420	116	116
	14	230	150	9.1	430	126	126
	14	230	200	9.8	440	141	141
	14	450	300	11.2	460	156	156
	14	465	400	12.6	480	205	205
	14	680	500	14	500	247	247
600	15.4	340	80	8.1	575	163	163
	15.4	340	100	8.4	580	164	164
	15.4	340	150	9.1	590	166	166
	15.4	340	200	9.8	500	189	189
	15.4	570	300	11.2	520	230	230
	15.4	570	400	12.6	540	263	63
	15.4	800	600	15.4	580	366	366
700	16.8	345	100	8.4	510	250	250
	16.8	345	200	9.8	525	242	242
	16.8	575	400	12.6	555	325	325
	16.8	925	600	15.1	585	441	441
	16.8	925	700	16.8	600	475	475
800	18.2	350	100	8.4	570	325	325
	18.2	350	200	9.8	585	306	306
	18.2	580	400	12.6	615	403	403
	18.2	1045	600	15.4	645	605	605
	18.2	1045	600	15.4	645	605	605
	18.2	1045	100	18.2	675	642	642
900	19.6	355	200	9.8	675	379	349
	19.6	590	400	12.6	675	495	495
	19.6	1170	600	15.4	705	774	774
	19.6	1170	900	19.6	750	838	838
1000	21	360	200	9.8	705	462	462
	21	595	400	12.6	735	596	596
	21	1290	600	15.4	765	973	973
	21	1290	800	18.2	795	1178	1178
	21	1290	1000	21	825	1186	1186

## All Socket Tee

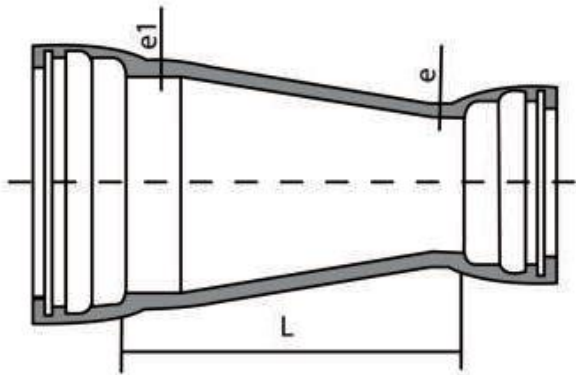


Nominal Diameter		L	H	Mass KG
DN	dn			
80	80	170	85	13.8
100	80	170	95	16.7
	100	190	95	18.2
150	80	170	120	24.5
	100	195	120	26.5
	150	255	125	31.5
200	80	175	145	35
	100	200	145	37.5
	150	255	150	43
	200	315	155	50.5
250	100	200	210	48
	150	315	220	59
	200	315	220	63.56
	250	375	230	71.5
300	100	205	235	54.5
	150	320	245	86
	200	320	245	72
	300	345	260	90.5
	350	440	285	111
350	100	205	260	70.5
	150	325	270	86.5
	200	325	270	90.5
	300	440	285	111
	350	495	290	121
400	100	210	285	83
	150	325	295	101
	200	325	295	105
	300	440	310	127
	400	560	320	155
450	150	330	320	117
	200	330	320	121
	300	445	335	146
	400	560	345	175
	450	620	350	190
500	150	320	345	135
	200	320	345	139
	300	450	360	167
	400	565	370	198
	500	680	380	231
600	150	340	395	275
	200	340	395	178
	300	455	410	211
	400	570	420	248
	600	800	440	325



Nominal Diameter		L	H	Mass KG
DN	dn			
700	200	345	445	248
	300	460	460	286
	400	575	470	328
	600	810	490	416
	700	925	500	474
800	200	350	495	309
	300	465	510	354
	400	580	520	403
	600	1045	540	580
	800	1045	565	632
900	200	355	545	382
	400	590	570	493
	600	1170	590	747
	800	1170	615	795
	900	1170	625	826
1000	200	360	595	464
	400	595	620	592
	300	1290	640	943
	800	1290	665	988
	1000	1290	685	1051
1100	400	600	670	703
	600	830	690	850
	800	1065	715	1024
	1000	1295	735	1211
	1100	1410	745	1316
1200	400	605	720	1440
	600	840	740	1009
	800	1070	765	1198
	1000	1300	785	1401
	1200	1535	805	1644

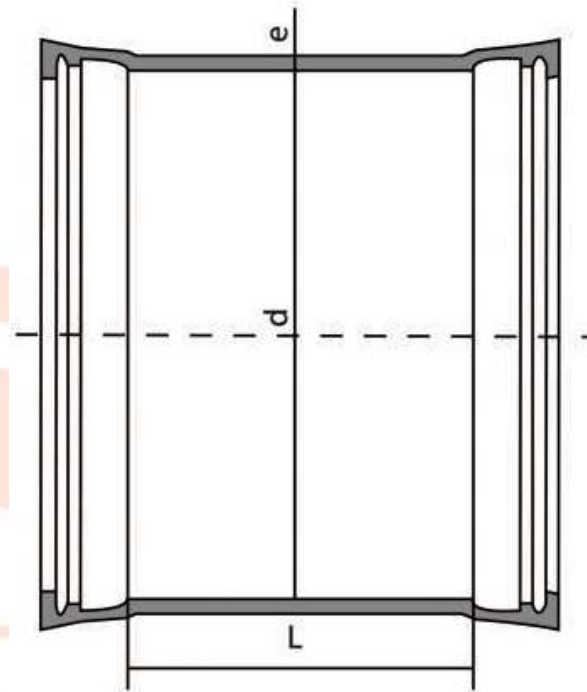
## Double Socket DN 100 to DN 1800



Larger Diameter		Smaller Dimeter		L	Mass
DN	EI	dn	e		
100	7.2	80	7	90	8.5
150	7.8	80	7	190	13.5
	7.8	100	7.2	150	13.8
200	8.4	100	7.2	250	20.5
	8.4	150	7.8	150	21
250	9	100	7.2	300	25
	9	150	7.8	250	29
	9	200	8.4	150	29
300	9.6	150	7.8	350	39.5
	9.6	200	8.4	250	39.5
	9.6	250	9	150	38.5
350	10.2	20	8.4	350	52
	10.2	250	9	260	51
	10.2	300	9.6	160	49.5
400	10.8	200	8.4	460	61.5
	10.8	250	9	360	66
	10.8	300	9.6	260	64
	10.8	350	10.2	160	62
450	11.4	250	9	460	76
	11.4	300	9.6	360	75
	11.4	350	10.2	260	69.5
	11.4	400	10.8	160	66
500	12	300	9.6	460	96.5
	12	350	10.2	360	98
	12	400	10.8	260	94
	12	450	11.4	160	80.5

Larger Diameter		Smaller Dimeter		L	Mass
DN	el	dn	e		
600	13.2	350	10.2	560	138
	13.2	400	10.8	460	142
	13.2	450	11.4	360	127
	13.2	500	12	260	131
700	14.4	500	12	480	194
	14.4	600	13.2	280	198
800	15.6	600	13.2	480	252
	15.6	700	14.4	280	229
900	16.8	500	12	840	388
	16.8	600	13.2	640	365
	16.8	700	14.4	480	318
	16.8	800	15.6	280	388
1000	18	800	15.6	480	392
	18	900	16.8	280	354
1200	20.4	800	15.6	870	648
	20.4	1000	18	480	570
1400	20.8	1200	20.4	360	711
1500	24	900	16.8	760	-
	24	1000	18	660	-
	24	1200	20.4	480	-
	24	1400	22.8	260	-
1600	25.2	1000	18	760	-
	25.2	1200	20.4	560	-
	25.2	1400	22.8	360	591
	25.2	1500	24	260	-
1800	27.6	1200	20.4	760	-
	27.6	1400	22.8	560	-
	27.6	1500	24	460	-
	27.6	1600	25.2	360	1235

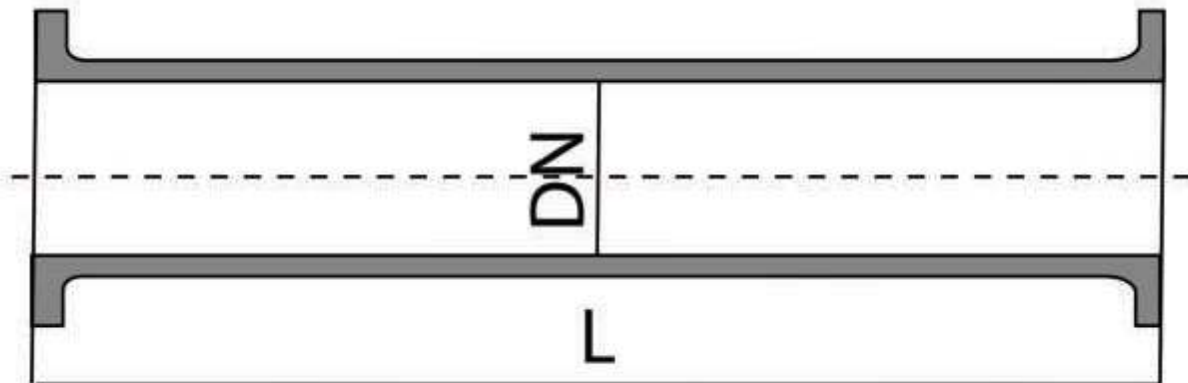
## Double Socket Tee with Flanged Branch



Dimensions in mm Masses in kg

DN Mm	E Mm	D Mm	L Mm	Mass ( approx) kg
100	7.2	130	160	9.9
150	7.8	183	165	15.9
200	8.4	235	170	23
250	9	288	175	31.5
300	9.6	340	180	41
350	10.2	393	185	52
400	10.8	445	190	64
500	12	550	200	93
600	13.2	655	210	129
700	14.4	760	220	172
800	15.6	865	230	223
900	16.8	970	240	282
1000	18	1175	250	349
1200	20.4	1285	270	560
1400	22.8	1477	340	816

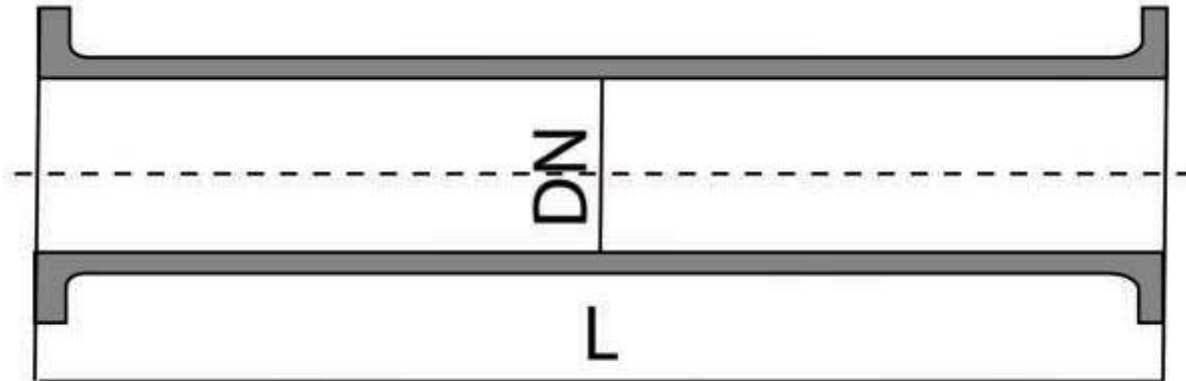
## Flanged Pipes with Integral Flanges PN10



DN	E	Mass(kg) including flanges for the length of .....mm									
		PN10					PN16				
		1000	1500	2000	2500	3000	1000	1500	2000	2500	3000
zzz80	8.1	22	X	X	X	X	22	X	X	X	X
100	8.4	27	X	X	X	X	27	X	X	X	X
150	9.1	42	58	X	X	X	42	58	X	X	X
200	9.8	60	83	X	X	X	59	82	X	X	X
250	10.5	81	111	X	X	X	80	110	X	X	X
300	11.2	104	143	182	X	X	103	142	181	X	X
350	11.9	125	173	221	X	X	131	179	227	X	X
400	12.6	149	207	265	X	X	160	218	276	X	X
450	13.3	178	247	315	X	X	194	265	331	X	X
500	14	204	285	365	445	X	235	315	395	476	X
600	15.4	273	379	484	590	X	326	432	537	643	X
700	16.8	349	484	618	752	X	380	514	648	782	X
800	18.2	442	608	774	940	1106	480	646	812	978	1144
900	19.6	530	731	932	1133	1334	578	779	980	1181	1382
1000	21	641	879	1118	1357	1596	724	962	1201	1440	1679
1100	22.4	786	1066	1346	1627	1907	856	1136	1416	1697	1977
1200	23.8	891	1215	1540	1864	2189	1019	1344	1668	1993	2317

DN	E	Mass(kg) including flanges for the length of .....mm									
		1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
700	16.8	422	452	482	510	540	570	600	629	659	688
800	18.2	531	568	604	641	678	714	750	878	824	860
900	19.6	639	683	727	772	816	860	905	948	992	1037
1000	21	771	823	867	928	981	1034	1086	1139	1191	1244
1200	23.8	1186	1157	1229	1300	1372	1443	1515	1586	1658	1729

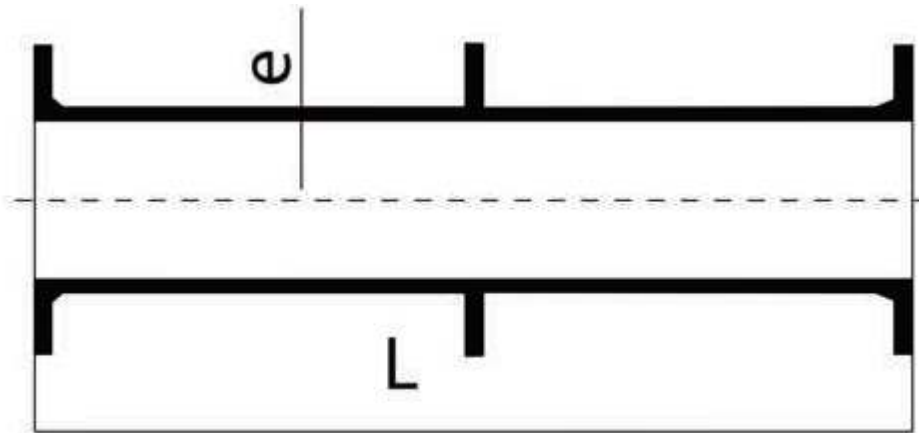
## Flanged Pipes with Integral Flanges PN16



DN	Wall thickness E	Mass(kg) including flanges for the length of .....mm											
		100	150	200	250	300	400	500	600	700	800	900	1000
100	8.4	8.6	9.7	10.7	11.7	12.7	17.8	17	18.8	21	23	25	27
150	9.1	13	14.9	16.5	18.1	19.7	23	26	29.5	32.5	36	39	42.5
200	9.8	18	21	22.5	25.5	27	32	36.5	41	45.5	50.5	55	59.5
250	10.5	25	28	31	34	37	43.5	49.5	55.5	61.5	68.8	74	80
300	11.2	33	36.9	41	44.5	48.5	56.5	64.5	72	80	87.5	95.5	103
400	12.6	-	-	-	-	-	91	102	114	125	137	149	160
500	14	-	-	-	-	-	139	155	171	187	203	219	235
600	15.4	-	-	-	-	-	200	221	272	263	284	305	327
700	16.8	-	-	-	-	-	-	249	267	303	330	356	383
800	18.2	-	-	-	-	-	-	320	353	386	419	452	486
900	19.6	-	-	-	-	-	-	384	424	464	5.4	544	585
1000	21	-	-	-	-	-	-	493	541	588	636	684	723
1200	23.8	-	-	-	-	-	-	635	683	730	778	826	874

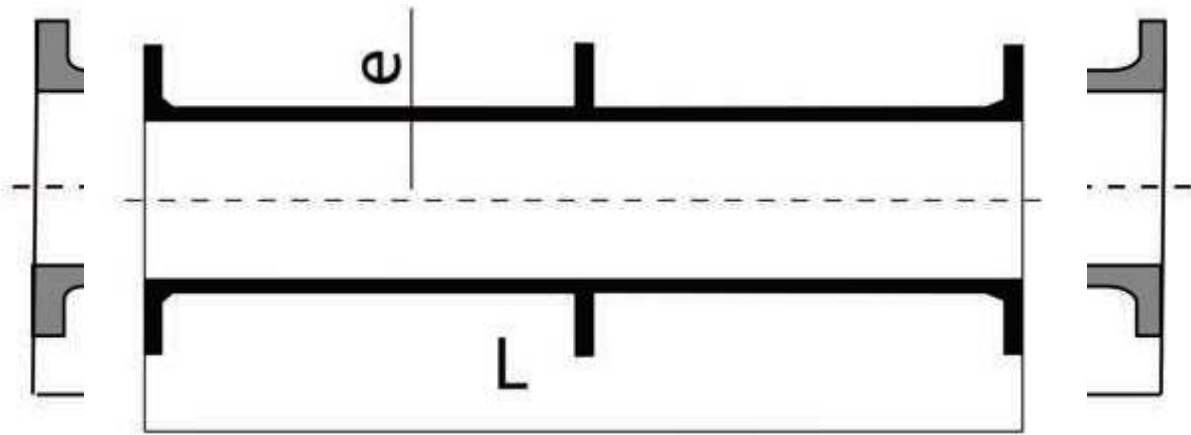
DN	E	Mass(kg) including flanges for the length of .....mm									
		1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
700	16.8	451	481	510	543	569	598	598	658	688	717
800	18.2	571	607	644	681	717	717	754	826	864	900
900	19.6	688	732	776	820	864	864	909	997	1041	1085
1000	21	875	910	963	1015	1068	1068	1120	1225	1278	1330
1200	23.8	1013	1066	1119	1272	1224	1224	1276	1382	1434	1486

## Double Flanged Pipe with Puddle



DN	E	Mass(kg) for of pipe with Puddle for the Length of .....mm									
		PN10 of pipe with puddle					PN16 of pipe with puddle				
		1000	1500	2000	2500	3000	1000	1500	2000	2500	3000
80	8.1	25	X	X	X	X	25	X	X	X	X
100	8.4	30	X	X	X	X	30	X	X	X	X
150	9.1	47	63	X	X	X	47	63	X	X	X
200	9.8	67	90	X	X	X	66	89	X	X	X
250	10.5	90	121	X	X	X	89	120	X	X	X
300	11.2	117	156	195	X	X	115	154	193	X	X
350	11.9	139	187	235	X	X	146	196	245	X	X
400	12.6	165	223	281	X	X	182	240	298	X	X
450	13.3	198	267	336	X	X	222	291	360	X	X
500	15	228	306	387	467	X	272	352	432	513	X
600	15.4	304	409	515	621	X	383	489	595	700	X
700	16.8	390	524	658	793	X	435	569	704	838	X
800	18.2	497	663	829	995	1161	554	720	889	1052	1218
900	19.6	595	796	996	1197	1398	666	867	1068	1269	1470
1000	21	722	961	1200	1439	1677	846	1085	1324	1563	1802
1100	22.4	899	1197	1460	1740	2020	1004	1284	1564	1845	2125
1200	23.8	1012	1336	1661	1985	2310	1205	1529	1854	2178	2503

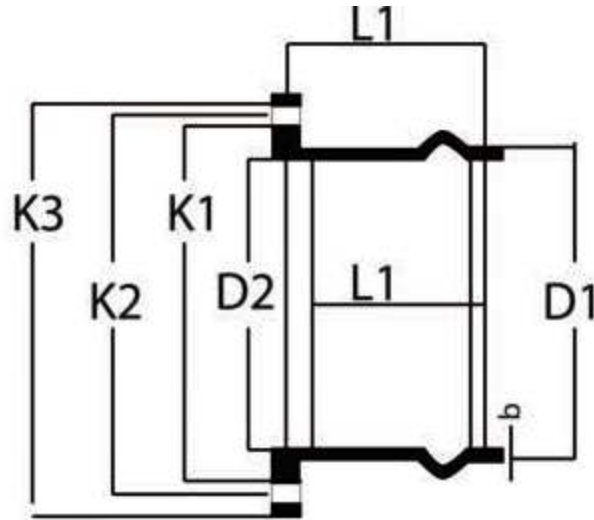
## Flanged Socket Pipe with Puddle



DN	E	Mass(kg) for of pipe with Puddle for the Length of .....mm									
		PN10 of pipe with puddle					PN16 of pipe with puddle				
		1000	1500	2000	2500	3000	1000	1500	2000	2500	3000
80	8	25	-	-	-	-	25	-	-	-	-
100	8	31	-	-	-	-	31	-	-	-	-
150	9	49	66	-	-	-	49	66	-	-	-
200	10	70	93	-	-	-	70	93	-	-	-
250	11	95	125	-	-	-	94	125	-	-	-
300	11	122	161	200	-	-	122	161	200	-	-
350	12	148	197	245	-	-	155	203	251	-	-
400	13	178	236	294	-	-	189	247	306	-	-
450	13	210	258	367	-	-	252	316	435	-	-
500	14	247	327	408	488	-	277	358	438	518	-
600	15	332	438	544	649	-	385	491	597	702	-
700	17	429	563	697	831	-	459	593	727	861	-
800	18	544	710	876	1043	1209	583	749	915	1081	1247
900	20	643	844	1045	1146	1347	691	892	993	1394	1494
1000	21	802	1041	1280	1518	1757	885	1124	1363	1601	1840
1100	22	916	1297	1377	1840	2237	1051	1332	1612	1962	1972
1200	24	1129	1453	1778	2102	2427	1257	1582	1906	2231	2555



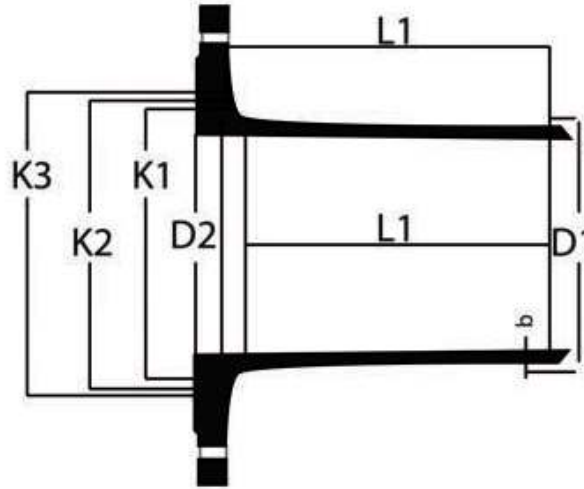
## Fittings for (P.V.C)



### Flanged Socket

DN	D1	D2	L	L1	K1	K2		K3		Holes		B	Kg
						10	16	10	16	PN10	PN16		
63	65.5	50	120	100	100	135	175	4	4	8	4		
75	77.3	65	120	100	115	135	185	4	4	8	4.5		
90	92.3	80	120	100	135	160	200	4	8	9	6		
110	112.6	100	125	105	150	180	220	8	8	9	7		
125	128	115	164	141	180	210	250	8	8	9.5	10		
140	143	125	145	110	185	210	250	8	8	10	10.5		
160	153.5	150	145	120	205	240	285	8	8	10	13.		
200	203.5	195	184	160	263	295	340	8	12	11	9.		
225	228.5	200	190	140	270	295	340	8	12	11	20		
250	253.5	235	210	175	315	350/355	395/405	12	12	12	31		
280	283.5	250	225	195	315	350/355	395/405	12	12	12	32		
315	318.5	300	242	210	355	400/410	445/460	12	12	15	43		
350	358.5	300	265	225	360	400/410	445/460	12	12	16	56		
355	358.5	330	265	225	415	460/470	505/520	16	16	16	60		
400	404	360	260	220	460	515/525	565/580	16	16	18	70		
450	454	400	290	250	470	515/525	565/580	16	16	18	77		
500	504	455	315	275	550	565/585	615/640	20	20	20	91		
560	565	465	345	305	610	615/625	665/680	23	23	23	115		
630	635	436	405	345	684	675/685	725/750	24	24	24	143		

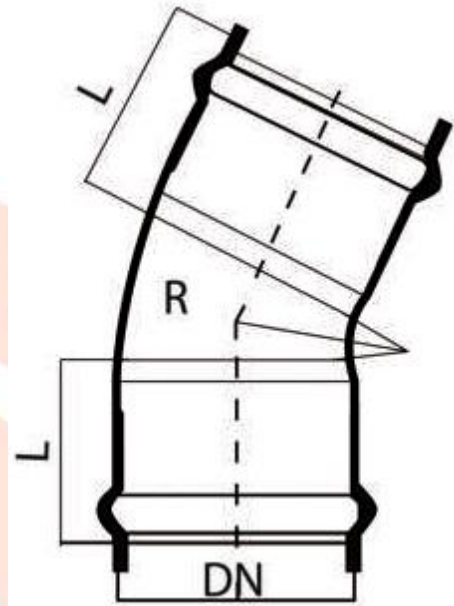
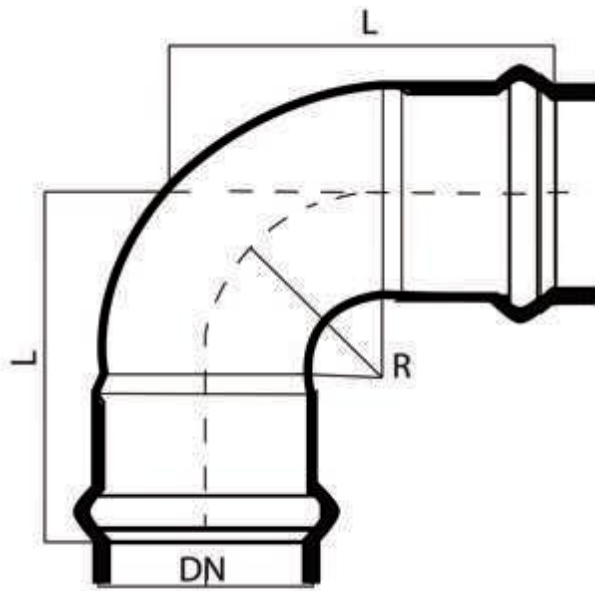
## Fittings for (P.V.C)



### Flanged Spigot

DN	D1	D2	L	L1	K1	K2	K3	Holes		B	Kg
						10 16	10 16	PN10	PN16		
63	65.5	50	120	100	100	135	175	4	4	8	4
75	77.3	65	120	100	115	135	185	4	4	8	4.5
90	92.3	80	120	100	135	160	200	4	8	9	6
110	112.6	100	125	105	150	180	220	8	8	9	7
125	128	115	164	141	180	210	250	8	8	9.5	10
140	143	125	145	110	185	210	250	8	8	10	10.5
160	153.5	150	145	120	205	240	285	8	8	10	13
200	203.5	195	184	160	263	295	340	8	12	11	21
225	228.5	200	190	140	270	295	340	8	12	11	23
250	253.5	235	210	175	315	350/355	395/405	12	12	12	31
280	283.5	250	225	195	315	350/355	395/405	12	12	12	32
315	318.5	300	242	210	355	400/410	445/460	12	12	15	47
350	358.5	300	265	225	360	400/410	445/460	12	12	16	58
355	358.5	330	265	225	415	460/470	505/520	16	16	16	62
400	404	360	260	220	460	515/525	565/580	16	16	18	76
450	454	400	290	250	470	515/525	565/580	16	16	18	92
500	504	455	315	275	550	565/585	615/640	20	20	20	122
560	565	465	345	305	610	615/625	665/680	23	23	23	125
630	635	436	405	345	684	675/685	725/750	24	24	24	155

## Fittings for (P.V.C)

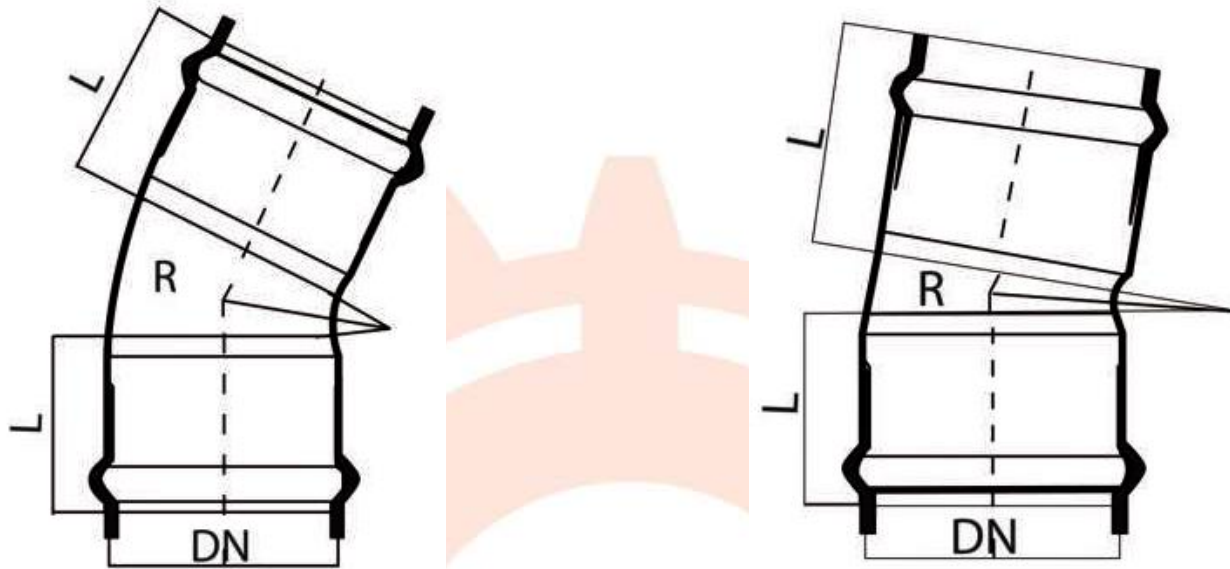


**Double Socket 90 Bend**

90 DN	R	L	Weight
63	50	152	3
75	60	173	4.5
90	80	200	5.7
110	100	228	9.2
125	125	258	11.5
140	125	264	15.5
160	150	299	21
200	200	365	31.5
225	200	386	39
250	250	454	52
280	250	458	68
315	300	519	92.5
355	350	577	110
400	400	634	180
500	505	749	245

**Double Socket 45 Bend**

45 DN	R	L	Weight
63	50	102	2.8
75	60	113	4
90	80	120.5	5.5
110	100	128	7.5
125	125	133.5	10.3
140	125	139.5	13
160	150	149.5	17
200	200	165.7	26
225	200	186	36
250	250	204	43
280	250	208	49.5
315	300	219	70.5
355	350	227	88
400	400	234	120
500	505	244	165



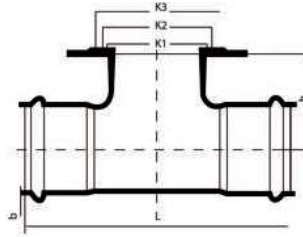
**Double Socket 22.5 Bend**

**Double Socket 11.25 Bend**

22.5 DN	R	L	Weight
63	50	102	2.5
75	60	113	3.3
90	80	120.5	4.8
110	100	128	6.5
125	125	133.5	8.8
140	125	139.5	11
160	150	149.5	15
200	200	165.7	23
225	200	186	35
250	250	204	36
280	250	208	45
315	300	219	59.5

45 DN	R	L	Weight
63	50	102	2.5
75	60	113	3
90	80	120.5	5
110	100	128	6.5
125	125	133.5	8.5
140	125	139.5	10.1
160	150	149.5	16
200	200	165.7	20.8
225	200	186	32
250	250	204	33
280	250	208	41.7
315	300	219	54

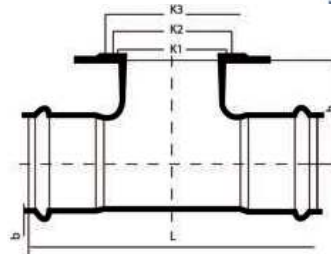
## Double Socket Tee With Flanged Branch



### Fittings for (P.V.C)

DN	D1	L	h	b	K1	K2	K3	Holes		kg
								PN10	PN16	
63x50/60	65.3	280	140	8	8	125/135	175	4	4	8
75x50/60	77.3	295	151	8	8	125/135	175	4	4	8.5
90x50/60	9.3	292	160	9	8	125/135	175	4	4	9
90x80	92.3	328	165	9	9	160	200	4	8	12
110x50/60	112.5	328	172	9	8	125/135	175	4	4	13
110x80	112.5	330	172	9	9	160	200	4	8	14
110x100	112.5	355	175	9	9	180	220	8	8	16
125x50/60	128	440	233	9.5	8	125/135	175	4	4	18
125x80	128	440	233	9.35	9	160	200	4	8	18
125x100	128	440	233	9.5	9	180	220	8	8	20
125x125	128	440	235	9.5	9.5	210	250	8	8	22
140x50/60	143.3	350	190	10	8	125/135	175	4	4	17
140x80	143.3	360	200	10	9	160	200	4	8	17
140x100	143.3	370	200	10	9	180	202	8	8	18
140x125	143.3	428	202	10	9.5	210	250	8	8	22
160x50/60	163.5	376	200	10	8	125/135	175	4	4	20
160x80	163.35	376	200	10	9	160	200	4	8	21
160x100	163.5	376	202	10	9	180	202	8	8	22
60x125	163.5	473	206	10	9.5	210	250	8	8	26
160x150	203.5	473	208	10	10	240	285	8	8	30
200x50/60	203.5	480	220	11	8	125/135	175	4	4	29
200x80	203.5	480	220	11	9	160	200	4	8	30
200x100	203.5	480	230	11	9	180	220	8	8	32
200x125	203.5	480	240	11	9.5	210	250	8	8	33
200x150	228.5	350	270	11	10	240	285	8	8	35
200x200	228.5	350	270	11	11	295	340	8	12	50
225x50/60	228.5	490	230	11	8	125/135	175	4	4	36
225x80	228.5	490	230	11	9	160	200	4	8	36
225x100	228.5	490	240	11	9	180	220	8	8	39
225x125	228.5	490	260	11	9.5	210	250	8	8	41
225x150	228.5	490	270	11	10	240	285	8	8	43
225x200	253.5	530	400	11	11	295	340	8	12	55
225x50/60	253.5	535	230	12	8	125/135	175	4	4	50
250x80	253.5	535	230	12	9	160	200	4	8	50

## Double Socket Tee With Flanged Branch



### Fittings for (P.V.C)

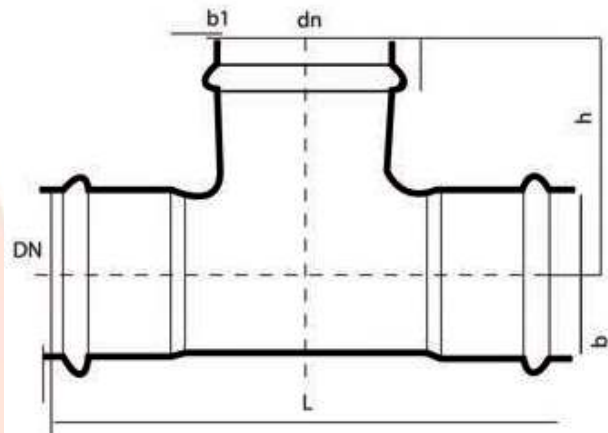
DN	D1	L	h	b	K1	K2	K3	Holes		kg
								PN10	PN16	
250x100	254	535	230	12	9	180	220	8	8	50
250x125	254	535	240	12	9.5	210	250	8	8	54
250x150	254	535	240	12	10	240	285	8	8	54
250x200	254	535	250	12	11	295	340	8	12	75
250x250	254	655	250	12	12	350/355	395/405	12	12	78
280x80	284	655	240	12	9	160	22	4	8	52
280x100	284	542	240	12	9	180	220	8	8	58
280x125	284	542	240	12	9.5	210	250	8	8	62
280x150	284	542	240	12	10	240	285	8	8	66
280x200	284	710	270	12	11	295	340	8	12	75
280x250	284	710	270	12	12	350/355	395/405	12	12	77
315x80	319	490	250	9	9	160	200	4	8	55
315x100	319	490	250	9	9	180	220	8	8	57
315x125	319	490	250	9.5	9.5	210	250	8	8	61
315x150	319	490	250	10	10	240	285	8	8	62
315x200	319	600	270	11	11	295	340	8	12	110
315x250	319	600	270	12	12	350/355	295/405	12	12	110
315x300	359	600	280	9	14	400/410	445/480	12	12	110
355x100	359	600	310	9.5	9	180	220	8	8	75
355x125	359	600	310	10	9.5	210	250	8	8	76
355x150	359	600	310	11	10	240	285	8	8	77
355x200	359	840	340	12	11	295	340	8	12	105
355x250	359	840	340	14	12	350/355	395/405	12	12	115
355x300	404	840	350	9	14	400/410	400/460	12	12	122
400x100	404	710	310	9.5	9	180	220	9	8	100
400x125	404	710	310	10	9.5	210	250	8	8	102
400x150	404	710	310	11	10	240	285	9	8	105
400x200	404	880	340	12	11	295	340	8	12	118
400x250	405	880	340	12	12	350/355	395/405	12	12	125
400x300	405	880	350	14	14	400/410	445/460	12	12	135
400x350	405	880	350	14	14	460/470	505/520	16	16	140
500x100	404	710	400	9	9	180	220	8	8	150
500x125	404	710	400	9.5	9.5	210	250	8	8	154
500x150	404	710	400	10	10	240	285	8	8	158

## All Socket Tee Fittings for (P.V.C)



### All Socket Tee

DNx <sub>dn</sub>	L	H	b	b <sub>1</sub>	kg
63x63	280	137	8	8	4.8
65x73	295	147	8	8	6
75x75	295	149	8	8	6
90x63	302	149	9	8	7.8
90x75	302	149	9	8	8.2
90x90	328	164	9	9	8.8
110x63	326	158	9	8	10
110x75	326	158	9	8	11
110x90	352	173	9	9	11
110x110	372	186	9	9	12.5
125x63	440	180	9.5	8	15
125x75	440	180	9.5	8	15
125x90	440	190	9.5	9	16
125x110	440	200	9.5	9	17
125x125	440	220	9.5	9.5	18
140x63	350	171	10	8	13
140x75	350	171	10	8	14
140x90	378	186	10	9	16
140x110	398	199	10	9	17
140x125	428	210	10	9.5	18

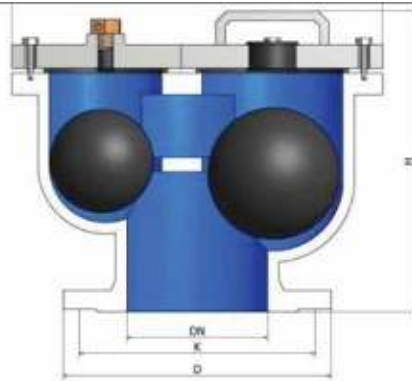


DNx <sub>dn</sub>	L	H	b	B <sub>1</sub>	Mass (kg)
140x140	428	213	10	10	18.5
160x63	376	180	10	8	20
160x75	376	180	10	8	21
160x90	402	195	10	9	21
160x110	422	208	10	9	22
160x125	473	235	10	9.5	24
160x140	473	235	10	10	24
160x160	473	235	10	10	25
200x63-75	480	210	11	8	29
200x90	480	220	11	9	30
200x110	480	235	11	9	31
200x125	480	240	11	9.5	32
200x140	480	250	11	10	32
200x160	530	260	11	10	34
200x200	530	265	11	11	35
225x63-75	490	225	11	8	33
225x90-110	490	230	11	9	34
225x125	490	260	11	9.5	35
225x140	490	260	11	10	36
225x160	540	380	11	10	40

DNx <sub>dn</sub>	L	H	b	b <sub>1</sub>	kg
225x200	540	380	11	11	46
225x225	540	380	11	11	47
250x63-110	535	230	12	9	45
250x125-160	535	230	12	10	47
250x200-250	655	240	12	12	66
280x63-110	542	240	12	9	50
280x125-160	542	240	12	10	60
280x200-280	710	260	12	12	78
315x110-160	795	250	14	10	68
315x200-225	795	270	14	11	88
315x250-315	754	270	14	14	105
355x110-160	600	310	14	10	75
355x200-250	840	340	14	12	92
355x280-355	840	350	14	14	108
400x110-160	710	310	16	10	100
400x200-280	880	340	16	12	110
400x315-400	880	340	16	16	150
500x110-160	710	340	18	10	150



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DN	H	L	D	K	n		Mass (kg)
					PN10	PN16	
80	270	310	200	160	8	8	25
100	280	335	220	180	8	8	35
150	345	395	285	240	8	8	55
200	445	550	340	295	8	12	100

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