

Litínové tvarovky

- ▶ LITINOVÉ TVAROVKY S PEVNÝMI PŘÍRUBAMI A HRDLY TYTON
- ▶ MATERIÁL: GGG40/50, DIN EN 545, POVRCH MODRÝ EPOXID
- ▶ EPOXIDOVÝ NÁSTŘIK **RESICOAT**® GSK CERTIFIKACE, 250µm
- ▶ PN 10/16
- ▶ TVAROVKY DLE DIN EN12842 PRO PVC POTRUBÍ PN10/16
- ▶ TVAROVKY S OTOČNÝMI PŘÍRUBAMI DIN EN1092-2 PN 10/16
- ▶ DN 50 - 1600
- ▶ SKLADOVÉ ZÁSoby DO DN800
- ▶ PŘÍRUBY DN 80 V PROVEDENÍ S 8 NEBO 4 DÍRAMI



GSK

KIWA



Obsah:

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Litinové tvarovky pro PVC dle DIN-EN 12842

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DIN EN 545 Serie A

Použité standardy:

Management výrobce a distributorů podle DIN EN ISO 9001

Příruby

- DIN-EN 1092-2

Tvarovky pro potrubí z tvárné litiny

- DIN EN 545 Serie A and B
- Výrobní standardy

Povrchová úprava

- EWS epoxidování práškem
- DIN 30677 part 2
- RAL GZ 662
- Dle standardů GSK & KIWA

Použité barvy epoxidu

Modrá RAL5005

Cihlově červená RAL3009

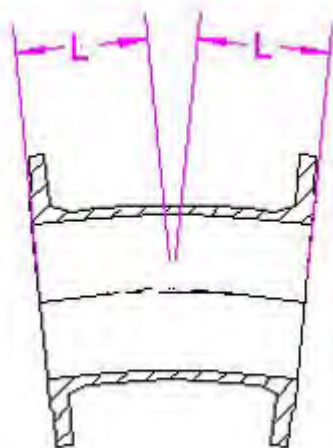
FFK-Pieces 11°

PN10/16

Flanged Bend 11 ¼°

Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
FFK-11°-DN80	130	9,2
FFK-11°-DN100	140	11,5
FFK-11°-DN125	111	21
FFK-11°-DN150	160	18,6
FFK-11°-DN200	180	27,5
FFK-11°-DN250	350	55
FFK-11°-DN300	400	78
FFK-11°-DN350	190	83,5
FFK-11°-DN400	205	108
FFK-11°-DN450	349	135
FFK-11°-DN500	375	200
FFK-11°-DN600	426	268
FFK-11°-DN700	478	343
FFK-11°-DN800	529	489
FFK-11°-DN900	581	622
FFK-11°-DN1000	632	778
FFK-11°-DN1200	735	1220
FFK-11°-DN1400	835	1643
FFK-11°-DN1600	940	2338



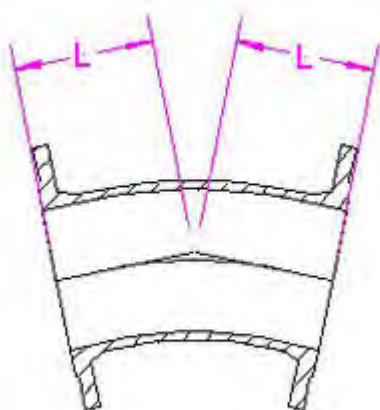
FFK-Pieces 22°

PN10/16

Flanged Bend 22 ½°

Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
FFK-22°-DN80	130	9,2
FFK-22°-DN100	140	11,5
FFK-22°-DN125	105	16
FFK-22°-DN150	160	18,6
FFK-22°-DN200	180	27
FFK-22°-DN250	350	54,5
FFK-22°-DN300	400	77,5
FFK-22°-DN350	210	91
FFK-22°-DN400	239	128,8
FFK-22°-DN450	349	155
FFK-22°-DN500	375	202
FFK-22°-DN600	426	335
FFK-22°-DN700	476	342
FFK-22°-DN800	529	490
FFK-22°-DN900	581	588
FFK-22°-DN1000	632	773
FFK-22°-DN1200	735	1213
FFK-22°-DN1400	835	1635
FFK-22°-DN1600	940	2235



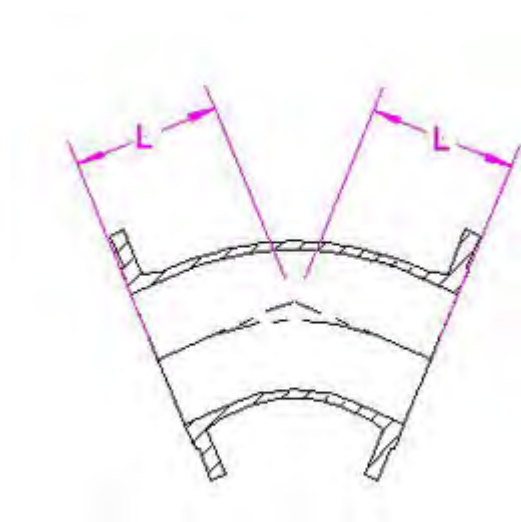
FFK-Pieces 30°

PN10/16

Flanged Bend 30°

Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
FFK-30°-DN80	130	10
FFK-30°-DN100	140	11,6
FFK-30°-DN150	160	18,5
FFK-30°-DN200	180	27
FFK-30°-DN250	210	54,5
FFK-30°-DN300	255	61



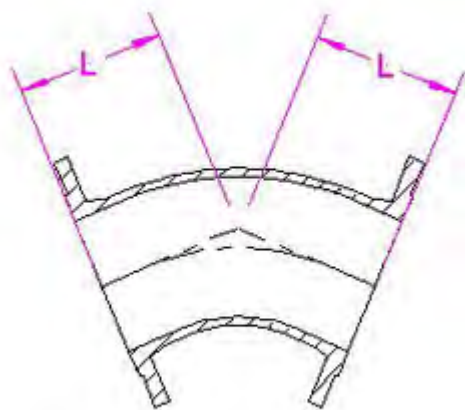
FFK-Pieces 45°

PN10/16

Flanged Bend 45°

Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
FFK-45°-DN80	130	9,3
FFK-45°-DN100	140	11,3
FFK-45°-DN125	150	15
FFK-45°-DN150	160	18,5
FFK-45°-DN200	180	27
FFK-45°-DN250	350	54
FFK-45°-DN300	400	76
FFK-45°-DN350	298	82
FFK-45°-DN400	324	106
FFK-45°-DN450	350	132
FFK-45°-DN500	375	215
FFK-45°-DN600	426	264
FFK-45°-DN700	478	335
FFK-45°-DN800	529	444
FFK-45°-DN900	581	582
FFK-45°-DN1000	632	757
FFK-45°-DN1200	750	1187
FFK-45°-DN1400	775	1599
FFK-45°-DN1600	845	2273



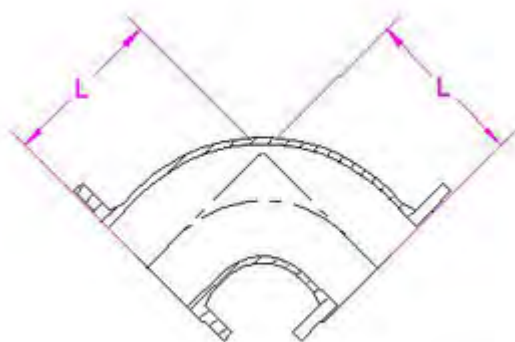
Q-Pieces 90°

PN10/16

Flanged Bend 90°

Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
Q-DN50	150	8
Q-DN65	160	9
Q-DN80	165	9,7
Q-DN100	180	11,9
Q-DN125	200	17,6
Q-DN150	220	20
Q-DN200	260	30,5
Q-DN250	350	49
Q-DN300	400	69
Q-DN350	450	96
Q-DN400	500	126
Q-DN450	550	160
Q-DN500	600	210
Q-DN600	700	325
Q-DN700	800	423
Q-DN800	900	630
Q-DN900	1.000	820,6
Q-DN1000	1.100	998
Q-DN1200	1.300	1573
Q-DN1400	1.270	1943
Q-DN1600	1.270	2524



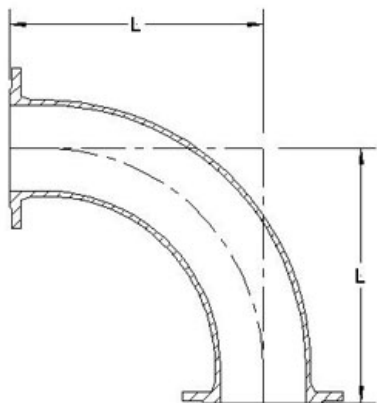


Flanged long radius bend 90°

PN10/16

Acc. to DIN EN 545

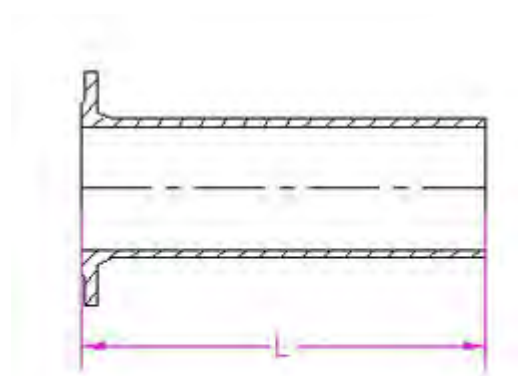
Type/DN	L mm.	kg/pce
DN 80	380	13,8
DN100	400	18
DN150	450	30
DN200	500	45,5
DN250	550	65
DN300	600	89,5
DN350	650	121
DN400	700	157
DN450	750	208
DN500	800	252
DN600	900	420





F-Pieces
PN 10/16
Flange Spigot Pipes
Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
F- 80	350	7,3
F-100	360	8,7
F-125	370	12
F-150	380	13,6
F-200	400	19,7
F-250	420	27,5
F-300	440	38
F-350	450	55
F-400	480	66,6
F-450	500	74,2
F-500	520	94
F-600	560	133,6
F-700	600	218
F-800	600	254
F-900	600	320
F-1.000	600	402
F-1.200	600	567
F-1.400	710	818
F-1.600	780	1143



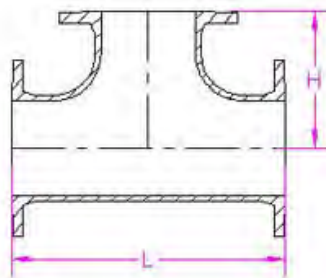
T-Pieces

PN 10/16

All Flange Tee

Acc. to DIN EN 545

Type/DN	L mm.	H mm.	kg/pce
T-DN50/50	300	150	13
T-DN80/50	330	160	14,8
T-DN80/80	330	165	15,6
T-DN100/50	360	170	18,4
T-DN100/80	360	175	18,4
T-DN100/100	360	180	19,3
T-DN125/50	400	185	20
T-DN125/80	400	190	24,8
T-DN125/100	400	195	24,6
T-DN125/125	400	200	28,5
T-DN150/50	440	200	29
T-DN150/80	440	205	28,5
T-DN150/100	440	210	29,5
T-DN150/125	440	215	34
T-DN150/150	440	220	32,5
T-DN200/80	520	235	41,5
T-DN200/100	520	240	42,5
T-DN200/150	520	250	45,5
T-DN200/200	520	260	49
T-DN250/80	700	265	65
T-DN250/100	700	275	67
T-DN250/150	700	300	70
T-DN250/200	700	325	75
T-DN250/250	700	350	81
T-DN300/80	800	290	91
T-DN300/100	800	300	93
T-DN300/150	800	325	95,5
T-DN300/200	800	350	101
T-DN300/250	800	375	108
T-DN300/300	800	400	117



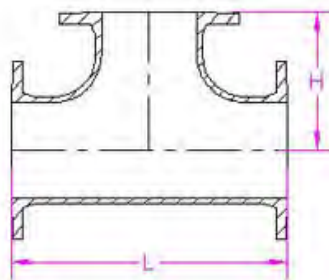
T-Pieces

PN 10/16

All Flange Tee

Acc. to DIN EN 545

Type/DN	L mm.	H mm.	kg/pce
T-DN350/80	850	325	120
T-DN350/100	850	325	121
T-DN350/150	850	325	123
T-DN350/200	850	325	128,2
T-DN350/250	850	325	115
T-DN350/300	850	425	158
T-DN350/350	850	425	153
T-DN400/80	900	350	166,4
T-DN400/100	900	350	168
T-DN400/150	900	350	155
T-DN400/200	900	350	159
T-DN400/250	900	350	161
T-DN400/300	900	450	177
T-DN400/400	900	450	194
T-DN450/80	950	375	187
T-DN450/100	950	375	203
T-DN450/150	950	375	199
T-DN450/200	950	375	193
T-DN450/250	950	375	213
T-DN450/300	950	475	213
T-DN450/350	950	475	221
T-DN450/400	950	475	236,2
T-DN450/450	950	475	237
T-DN500/80	1.000	400	237
T-DN500/100	1.000	400	241
T-DN500/150	1.000	400	241
T-DN500/200	1.000	400	296,6
T-DN500/250	1.000	400	288,6
T-DN500/300	1.000	500	258
T-DN500/500	1.000	500	304
T-DN600/80	1.100	450	349
T-DN600/150	1.100	450	379
T-DN600/200	1.100	450	380
T-DN600/300	1.100	550	439
T-DN600/450	1.100	550	444
T-DN600/500	1.100	550	408
T-DN600/600	1.100	550	491





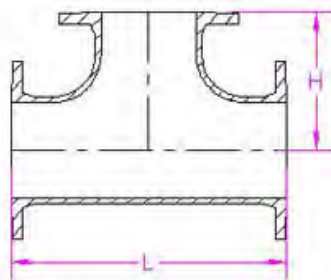
T-Pieces

PN 10/16

All Flange Tee

Acc. to DIN EN 545

Type/DN	L mm.	H mm.	kg/pce
T-DN700/400	870	555	379
T-DN700/700	1.200	600	548
T-DN800/400	910	615	472
T-DN800/450	980	615	582
T-DN800/600	1.350	645	722
T-DN800/800	1.350	675	802
T-DN900/150	720	640	545
T-DN900/200	730	645	525
T-DN900/400	950	675	578
T-DN900/600	1.500	705	942
T-DN900/800	1.500	720	1004,3
T-DN900/900	1.500	750	1140



T-Pieces up to DN1600 are available on request.

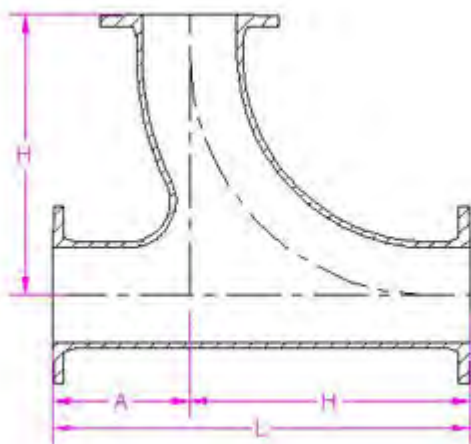
SCH-Pieces

PN 10/16

All Flange Radial Tee

Acc. to DIN EN 545

Type/DN	L mm.	H mm.	A mm.	kg/pce
DN80/80	545	380	165	23
DN100/100	580	400	180	29,5
DN150/150	670	450	220	48,5
DN200/200	760	500	260	72,5
DN250/250	900	550	350	106
DN300/300	1000	600	400	146
DN350/350	1100	650	450	204
DN400/400	1200	700	500	270
DN450/450	1300	750	550	483



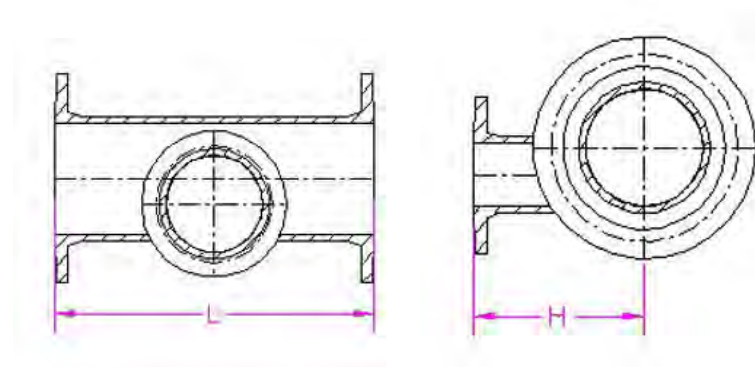
TTO-Pieces

PN 10/16

All Flange level invert Tee

Acc. to DIN EN 545

Type/DN	L mm.	H mm.	kg/pce
DN150/80	440	220	30
DN200/80	520	250	43



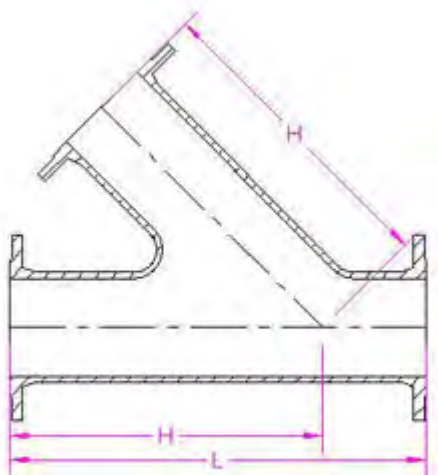
FFC-Pieces

PN 10/16

All Flange Angle Branch

Acc. to DIN EN 545

Type/DN	L mm.	H mm.	kg/pce
DN80/80	500	375	21
DN100/100	540	405	27
DN150/150	640	480	47
DN200/200	735	560	71
DN250/250	830	640	105
DN300/300	930	715	147



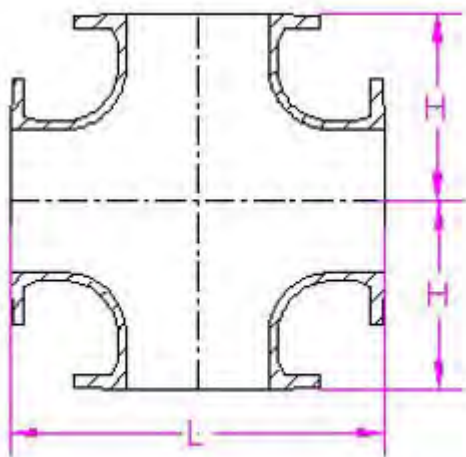
TT-Pieces

PN 10/16

All Flanged Cross

Acc. to Factory Standard

Type/DN	L mm.	H mm.	kg/pce
TT-DN80/80	330	165	20,5
TT-DN100/100	360	180	24,5
TT-DN150/150	440	220	41
TT-DN200/200	520	260	60,5
TT-DN250/250	700	350	106,4
TT-DN300/300	800	400	143
TT-DN350/350	850	425	191
TT-DN500/500	1.000	500	371
TT-DN800/800	1.350	675	980



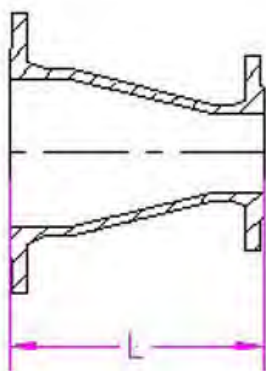
FFR-Pieces

PN 10/16

Flanged Concentric Taper

Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
FFR-DN65/50	200	8
FFR-DN80/50	200	7,3
FFR-DN80/65	200	8,7
FFR-DN100/50	200	9,5
FFR-DN100/65	200	11,2
FFR-DN100/80	200	9,3
FFR-DN125/80	200	11,1
FFR-DN125/100	200	11,2
FFR-DN150/80	200	14
FFR-DN150/100	200	14
FFR-DN150/125	200	16
FFR-DN200/80	300	20
FFR-DN200/100	300	20
FFR-DN200/150	300	23
FFR-DN250/100	300	28
FFR-DN250/150	300	29
FFR-DN250/200	300	30
FFR-DN300/100	300	35
FFR-DN300/150	300	37
FFR-DN300/200	300	39
FFR-DN300/250	300	40
FFR-DN350/200	300	61
FFR-DN350/250	300	67
FFR-DN350/300	300	52



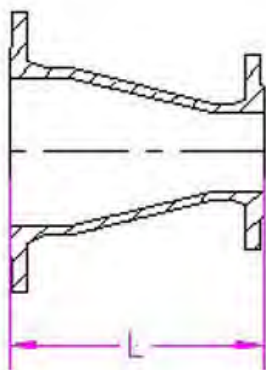
FFR-Pieces

PN 10/16

Flanged Concentric Taper

Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
FFR-DN400/100	300	68,2
FFR-DN400/150	300	74,8
FFR-DN400/200	300	74
FFR-DN400/250	300	77
FFR-DN400/300	300	84
FFR-DN400/350	300	67
FFR-DN450/250	300	88
FFR-DN450/300	300	95
FFR-DN450/350	300	104
FFR-DN450/400	300	81
FFR-DN500/250	600	124
FFR-DN500/300	600	111
FFR-DN500/400	600	130
FFR-DN500/450	600	102
FFR-DN600/300	600	199
FFR-DN600/350	600	167
FFR-DN600/400	600	164
FFR-DN600/450	600	175
FFR-DN600/500	600	190
FFR-DN700/450	600	213



FFR Pieces up to DN1600 are available on request

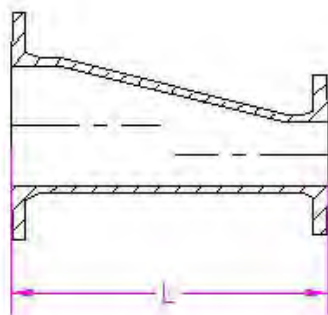
FFRe-Pieces

PN 10/16

Flanged Eccentric Taper

Acc. to Factory Standard

Type/DN	L mm.	kg/pce
FFRe-DN80/50	200	7,3
FFRe-DN80/65	200	8,7
FFRe-DN100/50	200	9,4
FFRe-DN100/80	200	9,3
FFRe-DN150/80	200	16
FFRe-DN150/100	200	15
FFRe-DN200/80	300	25,6
FFRe-DN200/100	300	27
FFRe-DN200/150	300	21,5
FFRe-DN250/150	300	38
FFRe-DN250/200	300	29,5
FFRe-DN300/100	300	42
FFRe-DN300/150	300	46
FFRe-DN300/200	300	51
FFRe-DN300/250	300	39,5
FFRe-DN350/200	300	61
FFRe-DN400/250	300	77
FFRe-DN400/300	300	84
FFRe-DN450/300	300	95
FFRe-DN450/400	300	88
FFRe-DN500/250	600	118
FFRe-DN500/400	600	124
FFRe-DN600/400	600	157
FFRe-DN600/450	600	174
FFRe-DN600/500	600	196



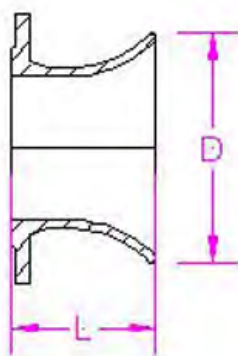
OMS-Pieces

PN 10/16

Flanged Bellmouth

Acc. to DIN EN545

Type/DN	L mm.	D mm.	kg/pce
DN 80	135	160	5,2
DN 100	140	185	6,3
DN 150	155	245	10,1
DN 200	170	310	14,7
DN 250	190	370	21
DN 300	210	435	29
DN 350	225	495	39
DN 400	245	560	51
DN 450	260	620	63
DN 500	280	685	82,5
DN 600	300	810	122
DN 700	340	945	154



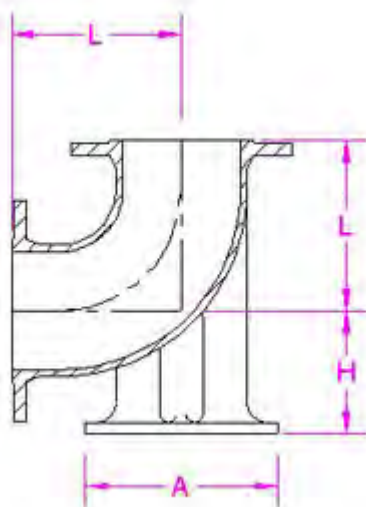
N-Pieces

PN 10/16

Flanged Duckfoot Bend 90°

Acc. to DIN EN 545

Type/DN	L mm.	H mm.	A mm.	kg/pce
N-DN80	165	110	180	14
N-DN100	180	125	200	17,7
N-DN150	220	160	250	30,5
N-DN200	260	190	300	47
N-DN250	350	225	350	76
N-DN300	400	255	400	108
N-DN350	450	290	450	147
N-DN400	500	320	500	196
N-DN450	550	355	550	246
N-DN500	600	385	600	322
N-DN600	700	450	700	502
N-DN700	800	515	800	566
N-DN800	900	580	900	798



N-Pieces up to DN1600 are available on request



X-Pieces
PN 10/16
Blank Flange
Acc. to DIN EN 545

Type/DN	kg/pce
X-DN50	2,6
X-DN65	3,6
X-DN80	3,9
X-DN100	4,8
X-DN125	6,1
X-DN150	8,1
X-DN200	11
X-DN250	16,6
X-DN300	23,5
X-DN350	34,5
X-DN400	46
X-DN450	60
X-DN500	80
X-DN600	125
X-DN700	163
X-DN800	304
X-DN900	323
X-DN1000	350
X-DN1200	635
X-DN1400	993
X-DN1600	1462



Available on request with 1" to 2" thread

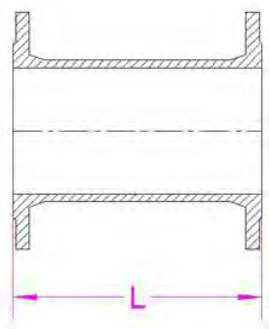
FF-Pieces

PN 10/16

Double Flanged Cast Riser Pipes

Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
FF-DN50	100	5,0
FF-DN50	200	6,0
FF-DN50	300	7,0
FF-DN50	400	8,0
FF-DN50	500	8,0
FF-DN80	100	6,5
FF-DN80	150	7,8
FF-DN80	200	8,4
FF-DN80	250	9,1
FF-DN80	300	9,8
FF-DN80	400	11,1
FF-DN80	450	12,2
FF-DN80	500	12,4
FF-DN80	600	14,8
FF-DN80	1.000	19,5
FF-DN100	100	8,7
FF-DN100	150	9,2
FF-DN100	200	10,1
FF-DN100	250	11,7
FF-DN100	300	11,9
FF-DN100	350	13,0
FF-DN100	400	13,6
FF-DN100	450	15,0
FF-DN100	500	15,4
FF-DN100	600	17,2
FF-DN100	1.000	24,6
FF-DN125	200	13,4
FF-DN125	500	22,1
FF-DN125	1.000	34,5



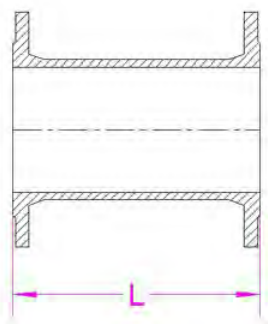
FF-Pieces

PN 10/16

Double Flanged Cast Riser Pipes

Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
FF-DN150	100	12,5
FF-DN150	150	14,8
FF-DN150	200	15,3
FF-DN150	250	18,1
FF-DN150	300	18,1
FF-DN150	400	21,0
FF-DN150	450	23,6
FF-DN150	500	24,8
FF-DN150	600	27,4
FF-DN150	1.000	45,0
FF-DN200	200	23,5
FF-DN200	250	25,3
FF-DN200	300	25,0
FF-DN200	400	30,8
FF-DN200	500	50,5
FF-DN200	600	39,2
FF-DN200	1.000	52,5
FF-DN250	200	29,4
FF-DN250	300	34,6
FF-DN250	350	36,0
FF-DN250	500	50,5
FF-DN250	1.000	81,0
FF-DN300	200	40,0
FF-DN300	500	65,0
FF-DN300	1.000	108,6
FF-DN400	200	65,8
FF-DN400	300	64,0
FF-DN400	500	89,4



FFM-Pieces

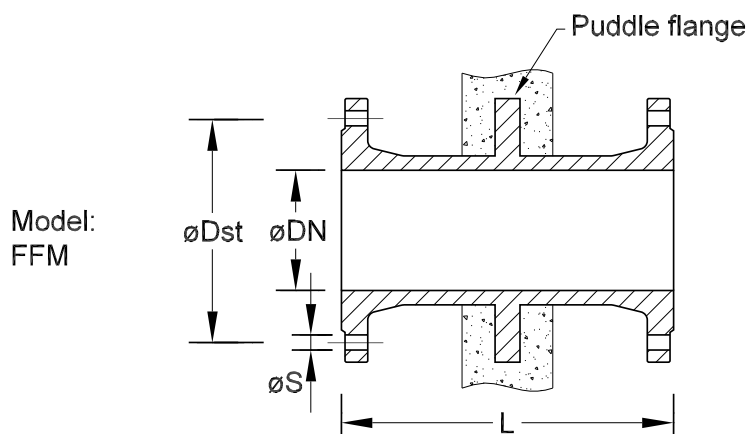
PN 10/16

Double Flanged Pipe with Fixed Puddle Flange

Acc. to Factory Standard

ØDN	Length and weight in mm. and Kg.										ØDst.	No. of drillings	ØS
	100	200	300	400	500	600	700	800	900	1000			
80	8	9	11	12	14	16	17	19	21	22	160	4/8	18
100	9	11	13	15	17	19	21	23	25	27	180	8	18
125	11	13	16	19	21	24	27	29	32	35	210	8	18
150	13	17	20	23	26	30	33	36	39	43	240	8	22
200	18	23	28	32	37	42	46	51	56	60	295	8	22
250	26	32	38	44	51	57	63	69	75	81	350	12	22
300	34	42	50	57	65	73	81	89	97	104	400	12	22
350		69	83	96	123	123	136	149	163	177	460	16	22
400		85	100	115	146	146	161	176	191	206	515	16	26
450		94	112	131	167	167	185	204	222	240	565	20	26
500		114	135	157	200	200	222	243	265	287	620	20	26
600			172	200	255	255	282	310	337	364	725	20	30
700			220	254	290	324	357	392	426	540	840	24	30
800			289	330	372	414	456	498	540	582	950	24	33
900				400	480	500	553	605	656	709	1050	28	33
1000				448	550	612	674	736	798	860	1160	28	36

Position of the puddle flange can be determined at your request





Hatchbox with hydrant quick coupling valve

Acc. to factory standard

PN 10/16

Materials

- Body and cover Epoxy powder coated ductile iron
- Valve connector Stainless steel
- Hydrant valve Cast aluminium – AK11
- Valve spindle Mo 58

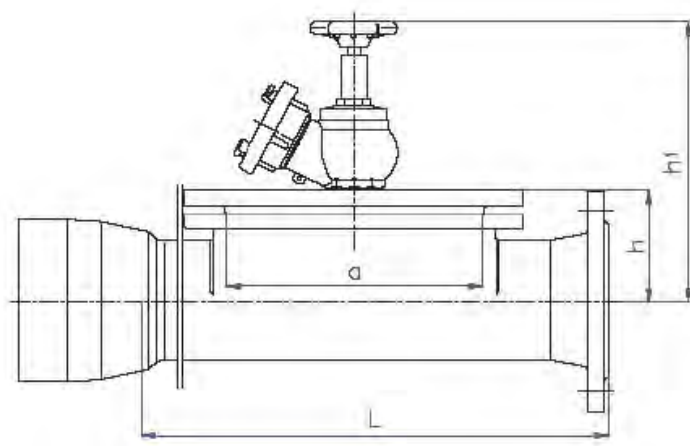
Working pressure

Pmax. = 1,0 Mpa

Connection type in hydrant valve

Hydrant socket (NH) 52

Dimensions				Inspection hole	Weight
DN	PN	Length	Height	a x b	Kg.
100	10/16	500	280	250x100	30
125	10/16	550	293	300x125	38
150	10/16	550	310	300x150	49
200	10	650	285	350x200	70
250	10	700	305	364x250	100
300	10	750	330	400x300	131



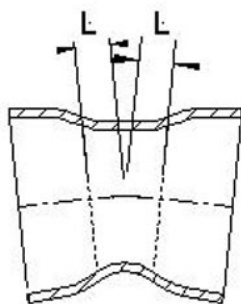
MMK-Pieces Push fit socket

MMK-Pieces 11¼°

Double Socket Bend 11¼°

Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
MMK-11¼- 80	30	5,6
MMK-11¼- 100	30	6,9
MMK-11¼- 125	35	10
MMK-11¼- 150	40	11,2
MMK-11¼- 200	45	18,8
MMK-11¼- 250	55	24,5
MMK-11¼- 300	55	37
MMK-11¼- 350	60	44
MMK-11¼- 400	65	58
MMK-11¼- 450	70	79,2
MMK-11¼- 500	75	94,5
MMK-11¼- 600	85	127



MMK Pieces up to DN1600 available

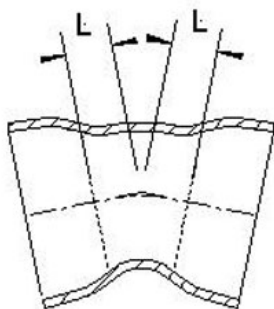
MMK-Pieces Push fit socket

MMK-Pieces $22\frac{1}{2}^\circ$

Double Socket Bend $22\frac{1}{2}^\circ$

Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
MMK- $22\frac{1}{2}^\circ$ - 80	40	5,9
MMK- $22\frac{1}{2}^\circ$ - 100	50	8,1
MMK- $22\frac{1}{2}^\circ$ - 150	60	12
MMK- $22\frac{1}{2}^\circ$ - 200	70	20,5
MMK- $22\frac{1}{2}^\circ$ - 250	80	27
MMK- $22\frac{1}{2}^\circ$ - 300	90	41
MMK- $22\frac{1}{2}^\circ$ - 350	100	50
MMK- $22\frac{1}{2}^\circ$ - 400	110	66
MMK- $22\frac{1}{2}^\circ$ - 450	120	90
MMK- $22\frac{1}{2}^\circ$ - 500	130	107
MMK- $22\frac{1}{2}^\circ$ - 600	150	168



MMK Pieces up to DN1600 available

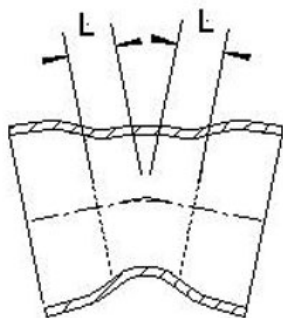
MMK-Pieces Push fit socket

MMK-Pieces 30°

Double Socket Bend 30°

Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
MMK-30°- 80	45	7,1
MMK-30°- 100	50	7,4
MMK-30°- 150	65	12,3
MMK-30°- 200	80	19,7
MMK-30°- 250	95	29
MMK-30°- 300	110	43



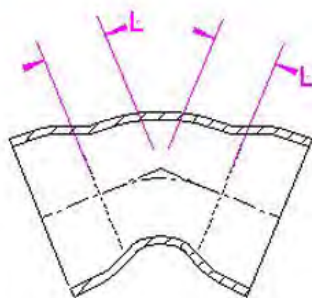
MMK-Pieces Push fit socket

MMK-Pieces 45°

Double Socket Bend 45°

Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
MMK-45° 80	50	7,6
MMK-45° 100	60	7,9
MMK-45° 150	70	13,5
MMK-45° 200	80	22
MMK-45° 250	135	32,5
MMK-45° 300	155	49
MMK-45° 350	175	61
MMK-45° 400	195	82,5
MMK-45° 450	220	103
MMK-45° 500	240	132,2
MMK-45° 600	285	191



MMK Pieces up to DN1600 available

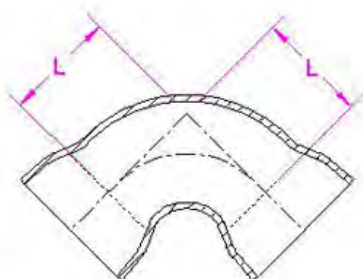
MMQ-Pieces Push fit socket

MMQ-Pieces 90°

Double Socket Bend

Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
MMQ-90°- 80	85	7,1
MMQ-90°- 100	100	9,2
MMQ-90°- 150	130	16,8
MMQ-90°- 200	160	28
MMQ-90°- 250	240	42,5
MMQ-90°- 300	280	63,5
MMQ-90°- 350	370	83
MMQ-90°- 400	420	113
MMQ-90°- 450	470	143
MMQ-90°- 500	520	183
MMQ-90°- 600	620	293,4



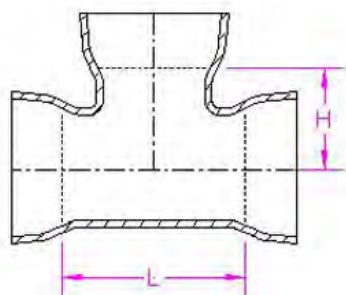
MMQ Pieces up to DN1600 available

MMB-Pieces

All Socket Tee

Acc. to DIN EN 545

Type/DN	L mm.	H mm.	kg/pce
MMB-80/80	175	85	10,9
MMB-100/80	165	90	13
MMB-100/100	195	100	13,8
MMB-150/80	180	120	18,1
MMB-150/100	200	125	20
MMB-150/150	260	130	23
MMB-200/80	180	145	25,5
MMB-200/100	200	150	27
MMB-200/150	260	155	31,5
MMB-200/200	320	160	37,5
MMB-250/80	185	185	35,5
MMB-250/100	205	190	42,5
MMB-250/150	265	190	50,8
MMB-250/200	320	190	48
MMB-250/250	380	190	62
MMB-300/80	220	235	48
MMB-300/100	210	220	49
MMB-300/150	265	220	60
MMB-300/200	325	220	67
MMB-300/250	380	220	80,6
MMB-300/300	440	220	86,2
MMB-350/80	225	260	61,5
MMB-350/100	225	260	64
MMB-350/150	340	265	71
MMB-350/350	515	270	111
MMB-400/80	225	290	77
MMB-400/100	225	290	80
MMB-400/150	340	290	92,5
MMB-400/200	340	290	100
MMB-400/250	575	295	129,4
MMB-400/300	575	295	132,6
MMB-400/400	575	300	144,6

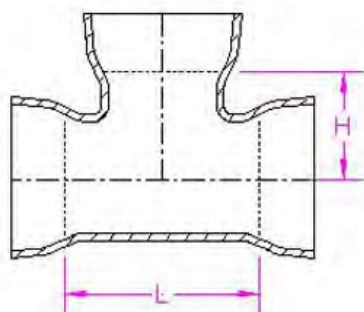


MMB-Pieces

All Socket Tee

Acc. to DIN EN 545

Type/DN	L mm.	H mm.	kg/pce
MMB-450/80	230	315	91,5
MMB-450/100	230	315	95
MMB-450/150	345	320	106
MMB-450/200	345	320	109
MMB-450/250	635	320	156
MMB-450/300	635	325	164
MMB-450/350	635	310	166
MMB-450/400	635	315	174
MMB-450/450	635	330	175
MMB-500/80	230	345	117
MMB-500/100	230	345	121
MMB-500/150	350	345	126
MMB-500/200	350	345	129
MMB-500/250	580	350	172
MMB-500/300	580	350	172
MMB-500/350	580	340	186
MMB-500/400	580	340	190
MMB-500/450	695	345	216
MMB-500/500	695	350	222
MMB-600/80	355	400	171
MMB-600/100	355	400	176
MMB-600/150	355	400	168
MMB-600/300	585	405	226
MMB-600/450	820	400	310
MMB-600/600	820	410	336

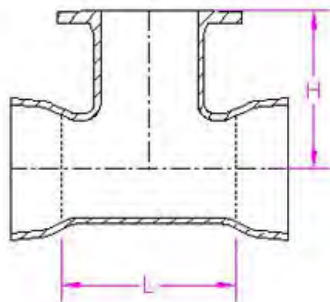


MMA-Pieces

Flange on Double Socket Tee

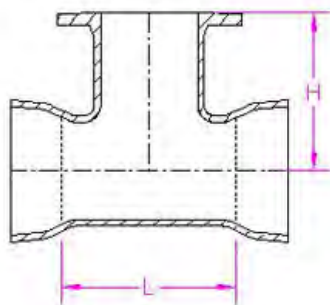
Acc. to DIN EN 545

Type/DN	L mm.	H mm.	kg/pce
MMA-80/DN50	155	155	12
MMA-80/DN80	175	165	12,6
MMA-100/DN50	155	165	14
MMA-100/DN80	165	170	14,3
MMA-100/DN100	195	180	15,9
MMA-125/DN80	175	185	17
MMA-125/DN100	195	195	19
MMA-125/DN125	225	200	22
MMA-150/DN80	180	200	19,7
MMA-150/DN100	200	205	21,5
MMA-150/DN125	230	215	23
MMA-150/DN150	260	220	26,5
MMA-200/DN80	180	225	27
MMA-200/DN100	200	230	29
MMA-200/DN125	235	240	27
MMA-200/DN150	260	245	35
MMA-200/DN200	320	280	41,5
MMA-250/DN80	180	265	43
MMA-250/DN100	205	270	38
MMA-250/DN150	265	280	48,5
MMA-250/DN200	320	290	52
MMA-250/DN250	380	300	61
MMA-300/DN80	185	295	49,5
MMA-300/DN100	210	300	51
MMA-300/DN150	265	310	63
MMA-300/DN200	325	320	66,5
MMA-300/DN250	380	330	83
MMA-300/DN300	440	340	89,5
MMA-350/DN80	185	325	65
MMA-350/DN100	205	330	60
MMA-350/DN150	270	340	74
MMA-350/DN350	495	380	123



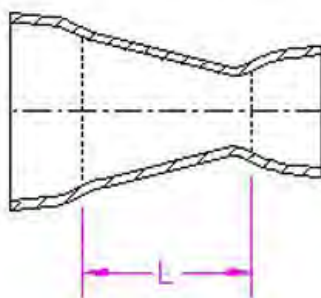
MMA-Pieces Push fit socket
Flange on Double Socket Tee
Acc. to DIN EN 545

Type/DN	L mm.	H mm.	kg/pce
MMA-400/DN80	185	355	75,8
MMA-400/DN100	210	360	75
MMA-400/DN150	270	370	96,2
MMA-400/DN200	325	380	95,5
MMA-400/DN250	385	390	136
MMA-400/DN300	440	400	139,6
MMA-450/DN80	215	390	156
MMA-450/DN100	215	390	89
MMA-450/DN150	270	400	97,9
MMA-450/DN200	345	415	118,8
MMA-450/DN300	390	430	116
MMA-450/DN400	560	450	174
MMA-450/DN450	620	460	191
MMA-500/DN80	215	420	208
MMA-500/DN100	215	420	103
MMA-500/DN150	330	430	91
MMA-500/DN200	330	440	128
MMA-500/DN300	390	460	131
MMA-500/DN400	565	480	185
MMA-500/DN500	680	500	210
MMA-600/DN80	355	470	259
MMA-600/DN100	355	475	167
MMA-600/DN150	355	490	167
MMA-600/DN200	340	500	183
MMA-600/DN300	585	525	196
MMA-600/DN400	570	540	238
MMA-600/DN450	820	570	268
MMA-600/DN500	800	580	269
MMA-600/DN600	800	580	350



MMR-Pieces Push fit socket
Double Socket Tapers
Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
MMR-100/80	85	6,6
MMR-150/80	190	13
MMR-150/100	150	10,8
MMR-200/100	250	19,6
MMR-200/150	145	16,4
MMR-250/100	250	28
MMR-250/150	250	27,2
MMR-250/200	150	23,5
MMR-300/150	370	31
MMR-300/200	250	38,6
MMR-300/250	150	36,3
MMR-350/200	370	46
MMR-350/300	160	42
MMR-400/200	360	67,6
MMR-400/250	360	65,4
MMR-400/300	260	61,4
MMR-450/300	260	79
MMR-450/400	160	72,6
MMR-500/250	360	97
MMR-500/300	360	95
MMR-500/350	360	89
MMR-500/400	260	92
MMR-600/300	460	145
MMR-600/400	460	132
MMR-600/450	360	127
MMR-600/500	260	116

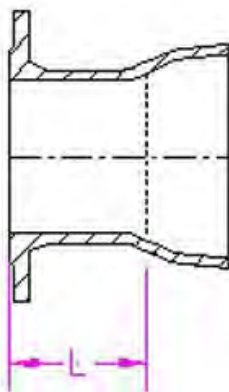




EU-Pieces Push fit socket
Flange Socket Piece

Acc. to DIN EN 545

Type/DN	L mm.	kg/pce
EU- 80	130	7,3
EU- 100	130	8,7
EU- 125	135	12,0
EU- 150	135	13,6
EU- 200	140	19,7
EU- 250	145	27,5
EU- 300	150	38,0
EU- 350	155	47,0
EU- 400	160	66,6
EU- 450	165	74,2
EU- 500	170	94,0
EU- 600	180	133,6



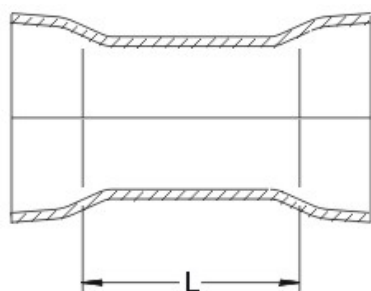
EU Pieces are available up to DN1600

MM Pieces

Double Socket Collar

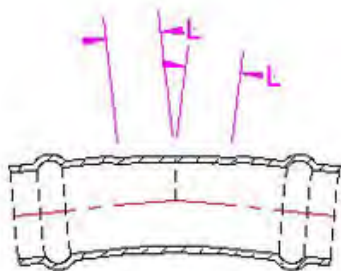
Acc. to DIN EN 545

Type/DN	L mm.	kg/pce.
MM 80	160	8
MM 100	160	10
MM 150	165	15
MM 200	170	25
MM 450	195	81



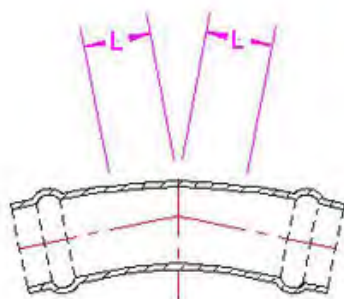
MMK-KS 11 Pieces PVC
Double Socket Bend 11¼°
Acc. to DIN EN 12842

Type/DN	DN	L mm.	kg/pce.
MMK-KS-11¼°- 50	63	20	2,5
MMK-KS-11¼°- 65	75	25	3,7
MMK-KS-11¼°- 80	90	7	4,5
MMK-KS-11¼°- 100	110	12	5,9
MMK-KS-11¼°- 125	125	13	7,5
MMK-KS-11¼°- 125	140	14	8,4
MMK-KS-11¼°- 150	160	15	11,0
MMK-KS-11¼°- 200	200	19	17,5
MMK-KS-11¼°- 200	225	30	23,5
MMK-KS-11¼°- 250	250	50	27,0
MMK-KS-11¼°- 250	280	55	37,8
MMK-KS-11¼°- 300	315	60	49,0



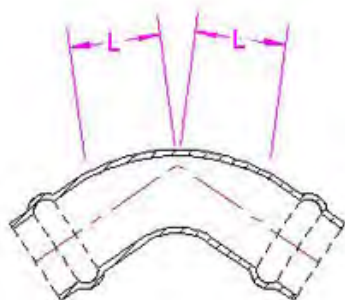
MMK-KS 22 Pieces PVC
Double Socket Bend 22½°
Acc. to DIN EN 12842

Type/DN	DN	L mm.	kg/pce.
MMK-KS- 22½°- 50	63	20	2,7
MMK-KS- 22½°- 65	75	25	3,8
MMK-KS- 22½°- 80	90	18	4,8
MMK-KS- 22½°- 100	110	22	6,3
MMK-KS- 22½°- 125	125	24	6,5
MMK-KS- 22½°- 125	140	28	8,9
MMK-KS- 22½°- 150	160	31	11,6
MMK-KS- 22½°- 200	200	39	16,2
MMK-KS- 22½°- 200	225	30	23,7
MMK-KS- 22½°- 250	250	75	34,0
MMK-KS- 22½°- 250	280	80	36,5
MMK-KS- 22½°- 300	315	85	51,0



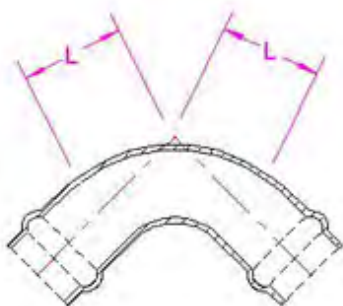
MMK-KS 45° Pieces PVC
Double Socket Bend 45°
Acc. to DIN EN 12842

Type/DN	DN	L mm.	kg/pce.
MMK-KS-45°- 50	63	40	3,0
MMK-KS-45°- 65	75	50	4,2
MMK-KS-45°- 80	90	33	4,8
MMK-KS-45°- 100	110	41	7,1
MMK-KS-45°- 125	125	48	8,3
MMK-KS-45°- 125	140	55	9,5
MMK-KS-45°- 150	160	60	12,9
MMK-KS-45°- 200	200	85	18,5
MMK-KS-45°- 200	225	60	24,2
MMK-KS-45°- 250	250	130	39,0
MMK-KS-45°- 250	280	140	40,0
MMK-KS-45°- 300	315	150	58,0



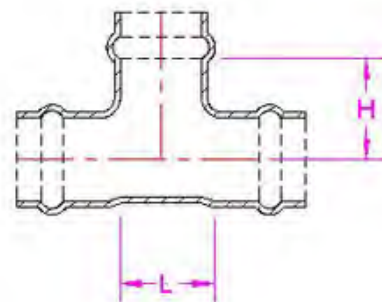
MMQ-KS 90° Pieces PVC
Double Socket Bend 90°
Acc. to DIN EN 12842

Type/DN	DN	L mm.	kg/pce.
MMQ-KS-90°- 50	63	60	3,3
MMQ-KS-90°- 65	75	65	4,5
MMQ-KS-90°- 80	90	80	6,0
MMQ-KS-90°- 100	110	95	8,2
MMQ-KS-90°- 125	125	110	11,0
MMQ-KS-90°- 125	140	135	12,5
MMQ-KS-90°- 150	160	145	16,8
MMQ-KS-90°- 200	200	195	27,2
MMQ-KS-90°- 200	225	320	42,0
MMQ-KS-90°- 250	250	270	42,0
MMQ-KS-90°- 250	280	300	48,0
MMQ-KS-90°- 300	315	320	66,0



MMB-KS Pieces PVC All Socket Tee Acc. to DIN EN 12842

Type/DN	DN	L mm.	H mm.	kg/pce.
MMB-KS- 50 x 50	63 x 63	70	127	4,8
MMB-KS- 65 x 65	75 x 75	84	140	5,5
MMB-KS- 80 x 50	90 x 63	76	142	7,0
MMB-KS- 80 x 80	90 x 90	101	164	9,0
MMB-KS- 100 x 50	110 x 63	81	150	7,0
MMB-KS- 100 x 65	110 x 75	92	156	7,7
MMB-KS- 100 x 80	110 x 90	106	156	8,0
MMB-KS- 100 x 100	110 x 110	124	180	9,0
MMB-KS- 125 x 100	140 x 110	130	184	14,0
MMB-KS- 125 x 125	140 x 140	157	206	17,0
MMB-KS- 150 x 50	160 x 63	93	181	11,0
MMB-KS- 150 x 65	160 x 75	104	188	11,2
MMB-KS- 150 x 80	160 x 90	118	191	12,0
MMB-KS- 150 x 100	160 x 110	136	197	14,0
MMB-KS- 150 x 150	160 x 160	181	228	17,0
MMB-KS- 200 x 80	200 x 90	95	216	20,0
MMB-KS- 200 x 100	200 x 110	112	220	20,3
MMB-KS- 200 x 150	200 x 160	160	253	23,1
MMB-KS- 200 x 200	200 x 200	210	255	28,0
MMB-KS- 200 x 65	225 x 75	110	220	24,0
MMB-KS- 200 x 80	225 x 90	130	222	26,4
MMB-KS- 200 x 100	225 x 110	148	226	26,9
MMB-KS- 200 x 150	225 x 160	193	257	32,0
MMB-KS- 200 x 200	225 x 225	252	284	40,0
MMB-KS- 250 x 150	250 x 160	205	266	52,0
MMB-KS- 250 x 200	250 x 200	250	268	54,0
MMB-KS- 250 x 200	250 x 225	260	310	49,2
MMB-KS- 250 x 250	250 x 250	280	332	51,0
MMB-KS- 250 x 100	280 x 110	160	269	34,0
MMB-KS- 250 x 150	280 x 160	205	295	40,5
MMB-KS- 250 x 250	280 x 280	314	359	48,0
MMB-KS- 300 x 100	315 x 110	172	267	38,0
MMB-KS- 300 x 150	315 x 160	217	299	43,0
MMB-KS- 300 x 200	315 x 200			55,0
MMB-KS- 300 x 300	315 x 315	357	379	63,0

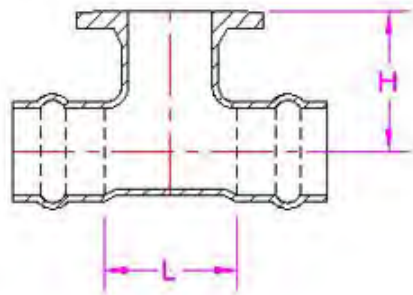


MMA-KS Pieces PVC

Double Socket Tee with Flanged Branch

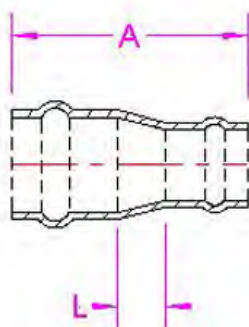
Acc. To DIN EN 12842

Type/DN	DN	L mm.	H mm.	kg/pce.
MMA-KS- 50 x 50	63	63	140	6,5
MMA-KS- 65 x 60	75	81	140	7,6
MMA-KS- 80 x 50	90	69	160	9,5
MMA-KS- 80 x 80	90			10,8
MMA-KS- 100 x 50	110	74	170	11,0
MMA-KS- 100 x 60	110	89	175	10,0
MMA-KS- 100 x 80	110	104	172	12,0
MMA-KS- 100 x 100	110	124	172	12,5
MMA-KS- 125 x 80	140	110	187	16,5
MMA-KS- 125 x 100	140	139	197	16,9
MMA-KS- 150 x 50	160	82	200	12,8
MMA-KS- 150 x 60	160	99	214	14,6
MMA-KS- 150 x 80	160	116	100	20,2
MMA-KS- 150 x 100	160	136	208	21,5
MMA-KS- 150 x 150	160	186	218	28,6
MMA-KS- 200 x 80	200	128	223	27,0
MMA-KS- 200 x 100	200	150	240	29,0
MMA-KS- 200 x 150	200	243	273	34,0
MMA-KS- 200 x 200	200	240	280	40,0
MMA-KS- 200 x 60	225	99	251	27,0
MMA-KS- 200 x 80	225	128	251	28,0
MMA-KS- 200 x 100	225	148	251	28,5
MMA-KS- 200 x 200	225	248	251	40,0
MMA-KS- 250 x 80	225	140	282	37,0
MMA-KS- 250 x 100	250	160	255	38,0
MMA-KS- 250 x 150	250	210	265	43,0
MMA-KS- 250 x 200	250	260	275	56,0
MMA-KS- 250 x 250	250	310	285	66,0
MMA-KS- 250 x 100	280	160	288	35,0
MMA-KS- 300 x 80	315	152	305	50,9
MMA-KS- 300 x 100	315	172	309	47,0
MMA-KS- 300 x 200	315	272	292	77,0
MMA-KS- 300 x 250	315			69,5
MMA-KS- 300 x 300	315			76,0



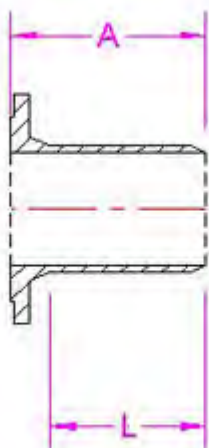
MMR-KS Pieces PVC Double Socket Taper Acc. to DIN EN 12842

Type/DN	DN	L mm.	kg/pce.
MMR-KS- 80/50	90/63	28	4,7
MMR-KS- 80/65	90/75		4,9
MMR-KS- 100/65	110/75	36	4,5
MMR-KS- 100/80	110/90	31	6,6
MMR-KS- 125/100	140/110	41	8,2
MMR-KS- 150/65	160/75	43	7,3
MMR-KS- 150/80	160/90	44	7,5
MMR-KS- 150/100	160/110	53	8,0
MMR-KS- 150/125	160/140	42	12,5
MMR-KS- 200/100	200/110	84	13,0
MMR-KS- 200/100	225/110	84	16,0
MMR-KS- 200/150	225/160	71	17,0
MMR-KS- 250/150	250/160	102	21,4
MMR-KS- 250/200	250/225	72	27,8



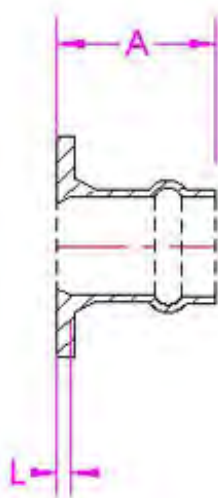
F-KS Pieces PVC
Flange Spigot Piece
Acc. to DIN EN 12842

Type/DN	DN	L mm.	kg/pce.
F-KS- 50	63	93	3,8
F-KS- 65	75	98	5,0
F-KS- 80	90	102	5,0
F-KS- 100	110	110	7,0
F-KS- 150	160	127	10,0
F-KS- 200	200	133	14,5
F-KS- 200	225	139	17,0
F-KS- 250	250	152	25,0
F-KS- 250	280	166	27,8
F-KS- 300	315	176	37,0



E-KS Pieces PVC
Flange Socket Piece
Acc. to DIN EN 12842

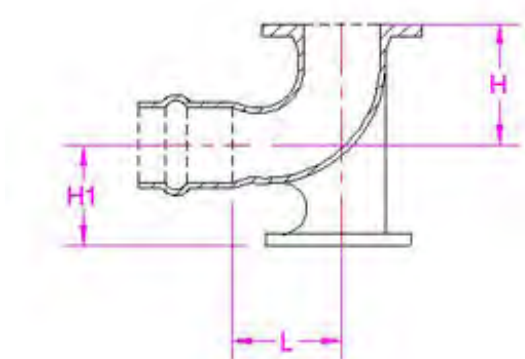
Type/DN	DN	L mm.	kg/pce.
E-KS- 50	63	58	3,4
E-KS- 60	63	59	4,0
E-KS- 60	75	60	4,5
E-KS- 65	75	60	4,5
E-KS- 80	90	61	5,2
E-KS- 100	110	64	5,6
E-KS- 125	140	68	7,7
E-KS- 150	160	71	9,5
E-KS- 200	200	75	16,0
E-KS- 200	225	78	16,0
E-KS- 250	250	81	28
E-KS- 250	280	85	24
E-KS- 300	315	88	35
E-KS- 400	400	95	72



In stock up to DN600

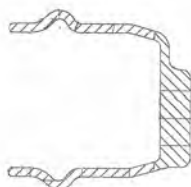
EN-KS Pieces PVC
Hydrant Duckfoot Bend 90°
DIN-EN 12842

Type/ DN	DN	L mm.	H1 mm.	H mm.	kg/pce.
EN-KS 80 x 90	90	140	108	290	12,0
EN-KS 80 x 110	110	165	120	300	15,0
EN-KS 80 x 140	140	185	110	305	19,0
EN-KS 80 x 160	160	123	130	310	20,5
EN-KS 100 x 110	110	185	120	320	22,0



EX-KS Pieces PVC
End Cap
DIN-EN 12842

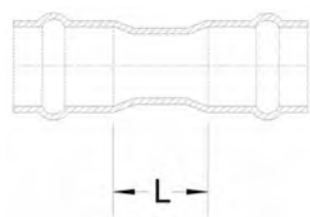
Type/DN	DN	kg/pce.
EX-KS DN50	63	3,5
EX-KS DN80	90	3,0
EX-KS DN100	110	4,0
EX-KS DN150	160	6,0
EX-KS DN200	200	9,0
EX-KS DN200	225	12,0
EX-KS DN225	250	14,0
EX-KS DN250	280	15,0
EX-KS DN300	315	20,5



Available on request with 1" to 2" thread

MM-KS Pieces PVC Double Socket Collar DIN-EN 12842

Type/DN	DN	L mm.	kg/pce.
MMI-KS DN50	63	68	4
MMI-KS DN80	90	74	7
MMI-KS DN100	110	79	10
MMI-KS DN150	160	91	10

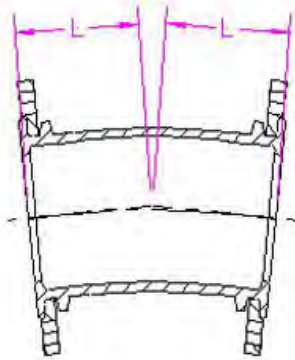


Available on request with 1" to 2" thread

FFK-LOS 11 Pieces

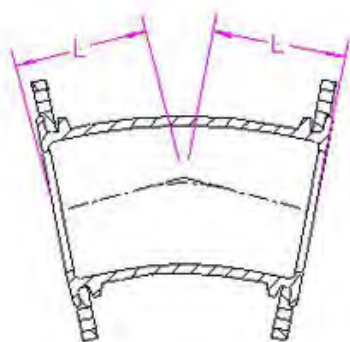
Rotating Flange Bend $11\frac{1}{4}^\circ$

Type/DN	L mm.	kg/pce.
FFK-LOS11- 80	110	7,9
FFK-LOS11- 100	115	9,9
FFK-LOS11- 125	120	14
FFK-LOS11- 150	130	17,5
FFK-LOS11- 200	145	22,9
FFK-LOS11- 250	165	34,3
FFK-LOS11- 300	175	60,2



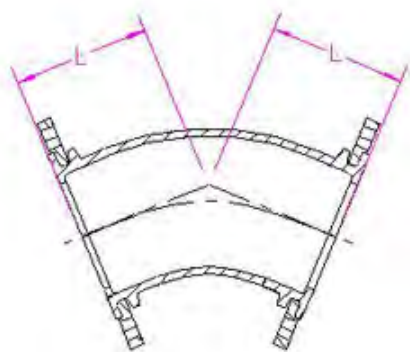
FFK-LOS 22 Pieces Rotating Flange Bend 22½°

Type/DN	L mm.	kg/pce.
FFK-LOS 22- 80	120	8
FFK-LOS 22- 100	130	10,6
FFK-LOS 22- 125	140	14,9
FFK-LOS 22- 150	150	17,9
FFK-LOS 22- 200	170	23,4
FFK-LOS 22- 250	190	35,1
FFK-LOS 22- 300	210	60,2



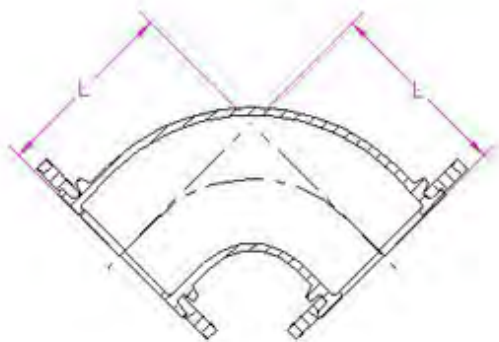
FFK-LOS 45 Pieces Rotating Flange Bend 45°

Type/DN	L mm.	kg/pce.
FFK-LOS 45- 80	130	8,5
FFK-LOS 45- 100	140	11,1
FFK-LOS 45- 125	150	15,7
FFK-LOS 45- 150	160	19,1
FFK-LOS 45- 200	180	24,2
FFK-LOS 45- 250	245	38,9
FFK-LOS 45- 300	275	60,1



FFK-LOS 90 Pieces Rotating Flange Bend 90°

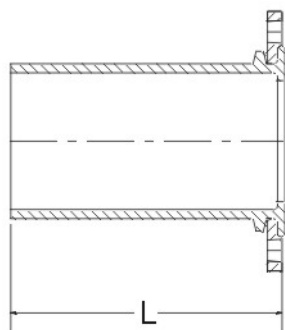
Type/DN	L mm.	kg/pce.
FFK-LOS 90- 80	165	9
FFK-LOS 90- 100	180	11,7
FFK-LOS 90- 125	200	16,4
FFK-LOS 90- 150	220	20,7
FFK-LOS 90- 200	260	29
FFK-LOS 90- 250	350	51,9
FFK-LOS 90- 300	400	68,7





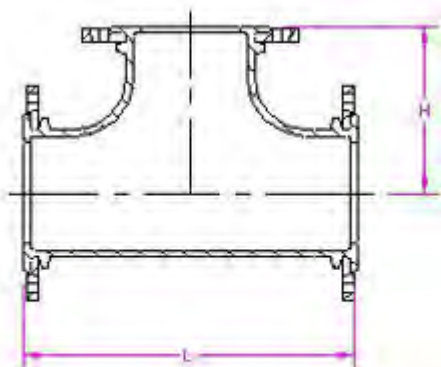
F-LOS Pieces Rotating Flange Spigot

Type/DN	L mm.	kg/pce.
F-LOS- 80	350	7,7
F-LOS- 100	360	9,5
F-LOS- 125		12,3
F-LOS- 150	380	16
F-LOS- 200	400	22,9
F-LOS- 250	420	32,2
F-LOS- 300	400	42



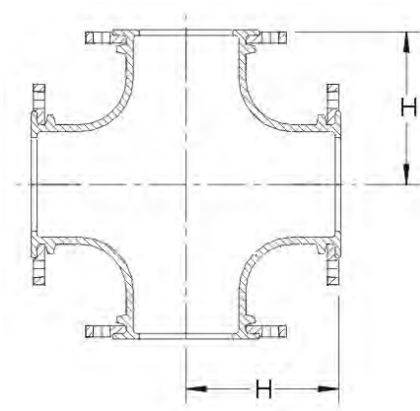
T-LOS Pieces All Flange Tee

Type/DN	L mm.	H mm.	kg/pce.
T-LOS 80/80	330	165	13,7
T-LOS 100/80	330	170	15,6
T-LOS 100/100	360	180	17
T-LOS 125/80	350	185	21
T-LOS 125/100	370	195	22,2
T-LOS 125/125	400	200	24,6
T-LOS 150/80	360	205	25,1
T-LOS 150/100	380	205	25,8
T-LOS 150/150	440	220	32
T-LOS 200/80	380	225	31,4
T-LOS 200/100	400	230	34
T-LOS 200/150	460	245	245
T-LOS 200/200	520	260	42,9
T-LOS 250/80	405	265	45,4
T-LOS 250/100	425	270	47,7
T-LOS 250/150	485	280	53,4
T-LOS 250/200	540	290	59
T-LOS 250/250	600	300	68,6
T-LOS 300/80	425	295	59,2
T-LOS 300/100	450	300	62,5
T-LOS 300/150	505	210	69,2
T-LOS 300/200	565	320	76,8
T-LOS 300/250	620	330	85,4
T-LOS 300/300	680	340	94,8



TT-LOS All Flanged Cross

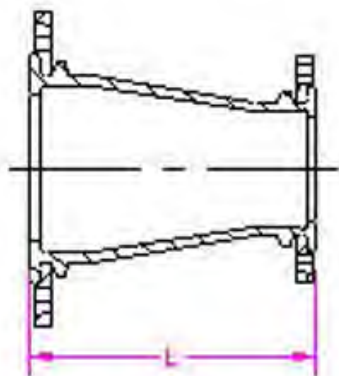
Type/DN	L mm.	H mm.	kg/pce.
TT-LOS 80	330	165	20
TT-LOS 100	360	180	24,2
TT-LOS 150	440	220	48
TT-LOS 200	520	260	58,4
TT-LOS 250	700	350	99,8
TT-LOS 300	800	400	132



FFR-LOS

Flanged Concentric Taper

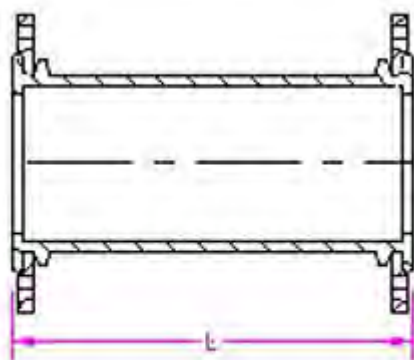
Type/DN	L mm.	kg/pce.
FFR-LOS 80/50	200	6,6
FFR-LOS 80/60	200	7,4
FFR-LOS 80/65	200	7,5
FFR-LOS 100/65	200	8,4
FFR-LOS 100/80	200	9
FFR-LOS 150/80	200	13,3
FFR-LOS 150/100	200	14,8
FFR-LOS 150/125	200	15
FFR-LOS 200/80	300	17,8
FFR-LOS 200/100	300	19,1
FFR-LOS 200/150	300	21,9
FFR-LOS 250/100	300	22,3
FFR-LOS 250/150	300	25,8
FFR-LOS 250/200	300	28,3
FFR-LOS 300/100	300	28,9
FFR-LOS 300/150	300	31,6
FFR-LOS 300/200	300	33,2
FFR-LOS 300/250	300	37,3



FF-LOS

Double Flanged Pipes

Type/DN	L mm.	kg/pce.
FF-DN80 L=100	100	6,5
FF-DN80 L=150	150	7,3
FF-DN80 L=200	200	8
FF-DN80 L=250	250	8,7
FF-DN80 L=300	300	9
FF-DN80 L=400	400	10,4
FF-DN80 L=500	500	11,1
FF-DN80 L=1000	1.000	18,7
FF-DN100 L=100	100	7,5
FF-DN100 L=150	150	8,5
FF-DN100 L=200	200	8,9
FF-DN100 L=250	250	9,8
FF-DN100 L=300	300	10,3
FF-DN100 L=400	400	11,6
FF-DN100 L=500	500	14
FF-DN100 L=1000	1.000	21,8
FF-DN150 L=100	100	13
FF-DN150 L=200	200	15,5
FF-DN150 L=300	300	18
FF-DN150 L=500	500	22,8
FF-DN150 L=1000	1.000	39
FF-DN200 L=500	500	31,2
FF-DN250 L=500	500	41,4
FF-DN300 L=500	500	57,2



FFM-LOS

Revolving Double Flanged Wall Pipe

Type/DN	L mm.	kg/pce.
FFM-LOS 80x800	800	21,5
FFM-LOS 100x800	800	22,3
FFM-LOS 150x800	800	35,8
FFM-LOS 200x800	800	45,5
FFM-LOS 250x800	800	72,4
FFM-LOS 300x800	800	110,2

