

Ductile iron fittings  
**Socket spigot-bends**  
 Dimensions

**EADIPS®/FGR® 70**

Formstücke aus duktilem Gusseisen  
**MK- und MQ-Stücke**  
 Maße

**Replaces 2012-02 edition**
**Amendments**

To Normative references  
 To Dimensions

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## 1. Scope

Because certain ductile iron bends which have a socket at one end and a spigot at the other end and which are intended for water and sewer pipelines are not covered in EN 545 or EN 598, this standard specifies their dimensions.

## 2. Normative references

EN 545

Ductile iron pipes, fittings, accessories and their joints for water pipelines –  
Requirements and test methods  
2010

EN 598

Ductile iron pipes, fittings, accessories and their joints for sewerage applications –  
Requirements and test methods  
2007+A1:2009

DIN 28601

Ductile iron pipes and fittings - Screwed socket joints -  
Assembly, sockets, screw rings, sealing rings and slip rings  
2000-06

DIN 28602

Ductile iron pipes and fittings - Bolted gland joints -  
Assembly, sockets, counter ring, sealing ring, bolts and nuts  
2000-05

DIN 28603

Ductile iron pipes and fittings - Push-in joints –  
Survey, sockets and gaskets  
2002-05

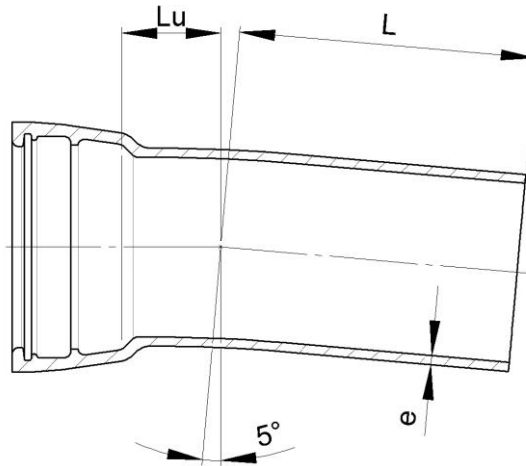
EADIPS®/FGR® 33

Ductile iron pipes and fittings -  
Marking of ductile iron pipes and fittings  
2013-06

### 3. Dimensions

#### 3.1 5° socket spigot-bends

Symbol



Dimensions in mm

DN	e	Lu	L	TYT / HT	SMU	NOVO
80	7,0	75	235	X / -	X	X
100	7,2	75	240	X / -	X	X
125	7,5	80	250	X / -	X	X
150	7,8	85	255	X / -	X	X
200	8,4	95	305	X / -	X	X
250	9,0	105	325	X / -	X	X
300	9,6	115	350	X / -	X	X
400	10,8	135	390	X / -	X	X

X : Available from member companies of the EADIPS®/FGR®

**TYT:** TYTON® push-in joint in accordance with DIN 28603

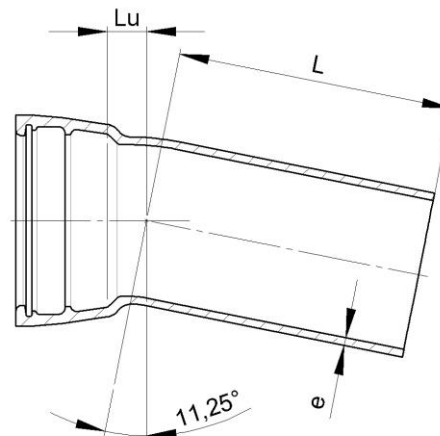
**HT:** vonRoll *hydrotight*

**SMU:** Screwed socket joint (Type UNION) in accordance with DIN 28601

**NOVO:** TYTON® push-in joint with NOVO locking-chamber

### 3.2 11° socket spigot-bends

Symbol



Dimensions in mm

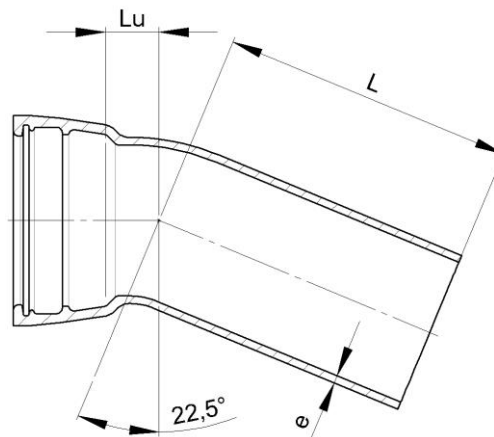
DN	e	Lu	L	TYT / HT	BLS®	SMU	STB	NOVO
80	7,0	30	240	X / X	-	X	-	X
			175	-	X	-	-	X
		75	235	-	-	X	-	-
100	7,2	33	243	X / X	-	X	-	X
		30	185	-	X	-	-	-
		75	240	-	-	X	-	-
125	7,5	36	261	X / X	-	X	-	X
		35	200	-	X	-	-	-
		80	250	-	-	X	-	-
150	7,8	40	284	X / X	-	X	-	X
		35	210	-	X	-	-	-
		85	255	-	-	X	-	-
200	8,4	46	311	X / X	-	X	-	X
		40	230	-	X	-	-	-
		95	305	-	-	X	-	-
250	9,0	50	255	X / -	X	X	-	X
			385	- / X	-	-	-	-
		103	325	-	-	X	-	-
300	9,6	60	260	X / -	-	X	-	X
			270	-	X	-	-	-
		55	400	- / X	-	-	-	-
		115	350	-	-	X	-	-
350	10,2	65	235	X / -	-	-	X	X
400	10,8	70	238	X / -	-	-	X	X
			430	X / -	-	-	-	-
		65	462	X / -	-	-	X	-
			815	- / X	-	-	-	-
500	12,0	85	250	X / -	-	-	X	X
600	13,2	95	287	X / -	-	-	X	X
700	14,4	110	340	X / -	-	-	X	X
800	15,6	125	375	X / -	-	-	X	X

X : Available from member companies of the EADIPS®/FGR®

- TYT:** TYTON® push-in joint in accordance with DIN 28603  
**HT:** vonRoll *hydrotight*  
**BLS®:** Buderus-Lock-System  
**SMU:** Screwed socket joint (Type UNION) in accordance with DIN 28601  
**STB:** Bolted gland joint in accordance with DIN 28602  
**NOVO:** TYTON® push-in joint with NOVO locking-chamber

### 3.3 22° socket spigot-bends

Symbol



Dimensions in mm

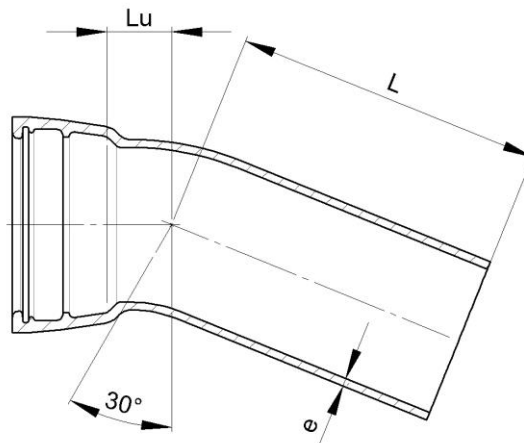
DN	e	Lu	L	TYT / HT	BLS®	SMU	STB	NOVO
80	7,0	38	248	X / X	-	X	-	X
		40	185	-	X	-	-	-
		100	260	-	-	X	-	-
100	7,2	43	253	X / X	-	X	-	X
		40	195	-	X	-	-	-
		105	270	-	-	X	-	-
125	7,5	49	274	X / X	-	X	-	X
		50	215	-	X	-	-	-
		115	285	-	-	X	-	-
150	7,8	55	299	X / X	-	X	-	X
			230	-	X	-	-	-
		120	290	-	-	X	-	-
200	8,4	66	331	X / X	-	X	-	X
		65	255	-	X	-	-	-
		135	345	-	-	X	-	-
250	9,0	75	260	X / -	-	X	-	X
			275	-	X	-	-	-
			410	- / X	-	-	-	-
		150	370	-	-	X	-	-
300	9,6	90	265	X / -	-	X	-	X
			300	-	X	-	-	-
			430	- / X	-	-	-	-
		165	400	-	-	X	-	-
350	10,2	100	270	X / -	-	X	X	-
400	10,8	110	278	X / -	-	X	X	X
			507	X / -	-	X	X	X
			855	- / X	-	-	-	-
500	12,0	135	300	X / -	-	-	X	X
600	13,2	155	357	X / -	-	-	X	X
700	14,4	190	420	X / -	-	-	X	-
800	15,6	205	455	X / -	-	-	X	-

X : Available from member companies of the EADIPS®/FGR®

- TYT:** TYTON® push-in joint in accordance with DIN 28603  
**HT:** vonRoll *hydrotight*  
**BLS®:** Buderus-Lock-System  
**SMU:** Screwed socket joint (Type UNION) in accordance with DIN 28601  
**STB:** Bolted gland joint in accordance with DIN 28602  
**NOVO:** TYTON® push-in joint with NOVO locking-chamber

### 3.4 30° socket spigot-bends

Symbol



Dimensions in mm

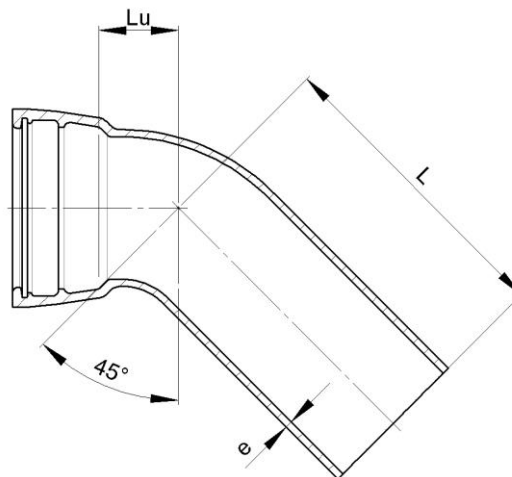
DN	E	Lu	L	TYT / HT	BLS®	SMU	STB	NOVO
80	7,0	44	253	X / X	-	X	-	X
		45	190	-	X	-	-	-
		120	280	-	-	X	-	-
100	7,2	50	260	X / X	-	X	-	X
		205	-	X	-	-	-	-
		130	295	-	-	X	-	-
125	7,5	57	283	X / X	-	X	-	X
		55	220	-	X	-	-	-
		135	305	-	-	X	-	-
150	7,8	65	309	X / X	-	X	-	X
		240	-	X	-	-	-	-
		145	315	-	-	X	-	-
200	8,4	80	345	X / X	-	X	-	X
		270	-	X	-	-	-	-
		165	375	-	-	X	-	-
250	9,0	270	270	X / -	-	X	-	X
		95	295	-	X	-	-	-
		430	- / X	-	-	-	-	-
		185	405	-	-	X	-	-
300	9,6	280	280	X / -	-	X	-	X
		110	320	-	X	-	-	-
		450	- / X	-	-	-	-	-
		200	435	-	-	X	-	-
350	10,2	125	295	X / -	-	X	X	-
400	10,8	140	308	X / -	-	X	X	X
		150	885	- / X	-	-	-	-
500	12,0	170	335	X / -	-	-	X	X
600	13,2	200	412	X / -	-	-	X	X
700	14,4	250	480	X / -	-	-	-	-
800	15,6	260	510	X / -	-	-	-	X

X : Available from member companies of the EADIPS®/FGR®

- TYT:** TYTON® push-in joint in accordance with DIN 28603  
**HT:** vonRoll *hydrotight*  
**BLS®:** Buderus-Lock-System  
**SMU:** Screwed socket joint (Type UNION) in accordance with DIN 28601  
**STB:** Bolted gland joint in accordance with DIN 28602  
**NOVO:** TYTON® push-in joint with NOVO locking-chamber

### 3.5 45° socket spigot-bends

Symbol



Dimensions in mm

DN	e	Lu	L	TYT / HT	BLS®	SMU	STB	NOVO
80	7,0	55	265	X / X	-	X	-	X
			200	-	X	-	-	
100	7,2	65	274	X / X	-	X	-	X
			220	-	X	-	-	
			170	330	-	-	X	-
125	7,5	76	301	X / X	-	X	-	X
			75	240	-	X	-	-
			190	350	-	-	X	-
150	7,8	87	331	X / X	-	X	-	X
			85	260	-	X	-	-
			200	360	-	-	X	-
200	8,4	109	374	X / X	-	X	-	X
			110	300	-	X	-	-
			220	430	-	-	X	-
250	9,0	130	300	X / -	-	X	-	X
			335	-	X	-	-	-
			465	- / X	-	-	-	-
			250	470	-	-	X	-
300	9,6	153	315	X / -	-	X	-	X
			365	-	X	-	-	-
			500	- / X	-	-	-	-
			275	500	-	-	X	-
350	10,2	175	345	X / -	-	X	X	X
			200	368	X / -	-	X	X
400	10,8	185	550	X / -	-	-	-	-
			195	940	- / X	-	-	-
450	11,4	220	420	X / -	-	-	X	-
500	12,0	240	405	X / -	-	-	X	X
600	13,2	285	529	X / -	-	-	X	X
700	14,4	380	610	X / -	-	-	-	X

X : Available from member companies of the EADIPS®/FGR®

**TYT:** TYTON® push-in joint in accordance with DIN 28603

**HT:** vonRoll *hydrotight*

**BLS®:** Buderus-Lock-System

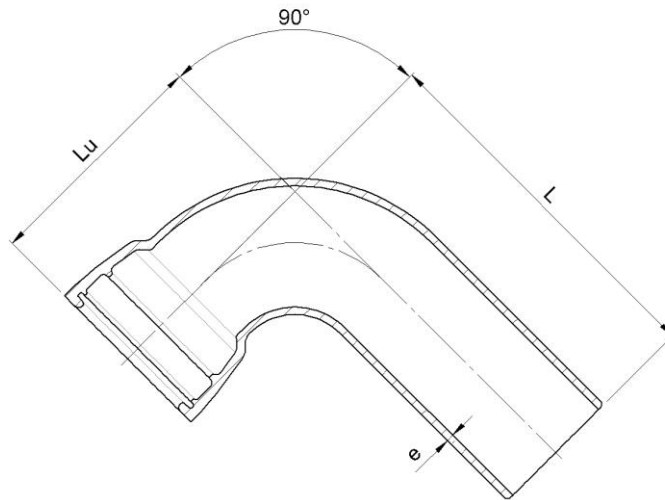
**SMU:** Screwed socket joint (Type UNION) in accordance with DIN 28601

**STB:** Bolted gland joint in accordance with DIN 28602

**NOVO:** TYTON® push-in joint with NOVO locking-chamber

### 3.6 90° socket spigot-bends

Symbol



Dimensions in mm

DN	e	Lu	L	TYT / HT	SMU	STB	NOVO
80	7,0	102	312	X / X	X	-	X
100	7,2	123	333	X / X	X	-	X
		200	365	-	X	-	-
125	7,5	149	374	X / X	X	-	X
		225	395	-	X	-	-
150	7,8	175	419	X / X	X	-	X
		250	420	-	X	-	-
200	8,4	226	491	X / X	X	-	X
		300	510	-	X	-	-
250	9,0	280	583	X / -	X	-	X
		350	570	-	X	-	-
		270	610	- / X	-	-	-
300	9,6	330	660	X / X	X	-	X
		400	635	-	X	-	-
		330	660	- / X	-	-	-
350	10,2	410	580	X / -	-	X	-
400	10,8	430	625	X / -	-	X	X
		420	1175	- / X	-	-	-
500	12,0	550	715	X / -	-	X	X
600	13,2	645	805	X / -	-	X	X
700	14,4	720	900	X / -	-	X	-
800	15,6	800	1080	X / -	-	X	-

X : Available from member companies of the EADIPS®/FGR®

- TYT:** TYTON® push-in joint in accordance with DIN 28603  
**HT:** vonRoll *hydrotight*  
**SMU:** Screwed socket joint (Type UNION) in accordance with DIN 28601  
**STB:** Bolted gland joint in accordance with DIN 28602  
**NOVO:** TYTON® push-in joint with NOVO locking-chamber



#### **4. Material, coatings**

Material and coatings are to be in accordance with EN 545 for water pipelines and in accordance with EN 598 for sewer pipelines.

#### **5. Marking**

Marking is to be in accordance with EN 545, EN 598 and EADIPS®/FGR® 33.