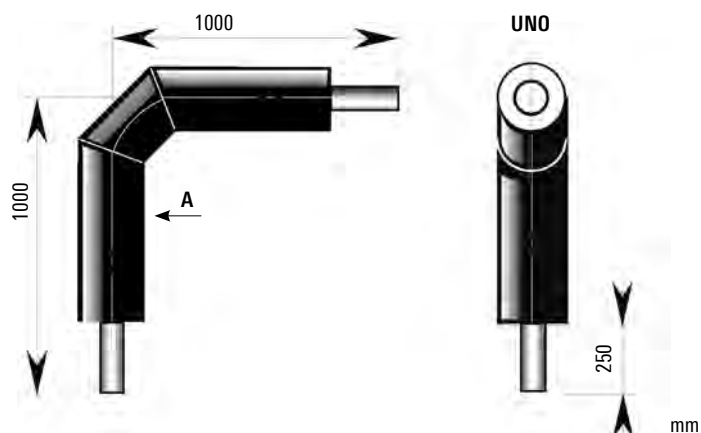


## Bend, 90°



## Dimensions Ø 125 - 315 mm / SDR 11

Type	Inches	PE inner pipe d x s mm	Outer pipe D x s1 mm	Volume Inner pipe l/m
125/225	5	125 x 11.4	225 x 6.9	8.203
140/225	-	140 x 12.7	225 x 6.9	10.315
160/250	6	160 x 14.6	250 x 6.2	13.437
180/280	7	180 x 16.4	280 x 6.9	17.018
200/315	8	200 x 18.2	315 x 7.7	21.021
225/315	9	225 x 20.5	315 x 7.7	26.590
250/355	10	250 x 22.7	355 x 5.6	32.878
280/400	11	280 x 25.4	400 x 6.3	41.259
315/450	12	315 x 28.6	450 x 7.0	52.198

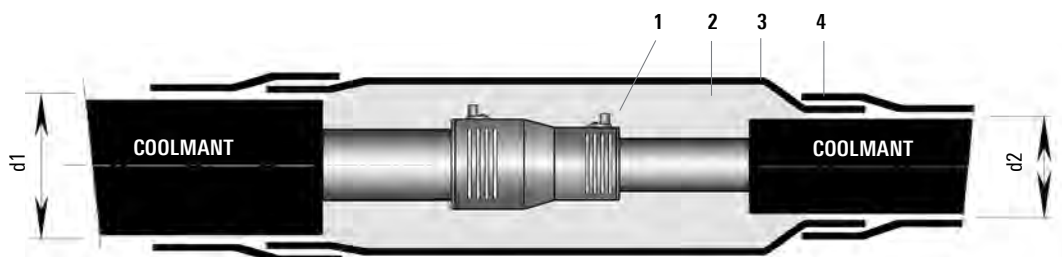
## Dimensions Ø 125 - 315 mm / SDR 17

Type	Inches	PE inner pipe d x s mm	Outer pipe D x s1 mm	Volume Inner pipe l/m
125/225	5	125 x 7.4	225 x 6.9	9.230
140/225	-	140 x 8.3	225 x 6.9	11.960
160/250	6	160 x 9.5	250 x 6.2	15.610
180/280	7	180 x 10.7	280 x 6.9	19.760
200/315	8	200 x 11.9	315 x 7.7	24.380
225/315	9	225 x 13.4	315 x 7.7	30.850
250/355	10	250 x 14.8	355 x 5.6	38.150
280/400	11	280 x 16.6	400 x 6.3	47.840
315/450	12	315 x 18.7	450 x 7.0	60.520

# Joint using PE-HD shrink sleeve

Dimensions Ø 76 - 450 mm

COOLMANT joints and reduction joints



- 1 PE fusion welded joints; see CLM 2.350
- 2 Insulation material, PUR or PE; see CLM 2.345
- 3 Shrink sleeve pipe
- 4 Shrink hose

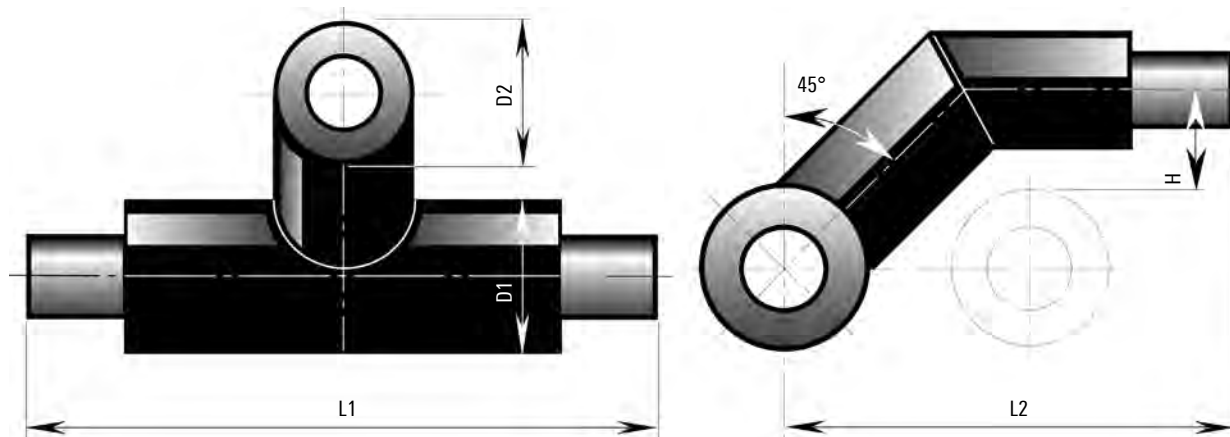
## COOLMANT – COOLMANT

	Ø d2	225	250	280	315	355	400	450
Ø d1	225	x						
	250	x	x					
	280		x	x				
	315		x	x	x			
	355		x	x	x	x		
	400		x		x		x	
	450		x	x	x	x	x	x

PE jointing methods; see CLM 2.350

# T-piece, angled 45°

Dimension Ø 125 - 315 mm / SDR 11/SDR 17



## Dimensions Ø 125 - 350 mm / SDR 11/SDR 17

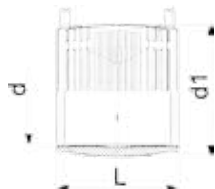
Type	D1 mm	L1 m	D1 mm	L2 m	H mm
125/225	225	1.0	225 - 75	1.0	70
140/225	225	1.0	225 - 75	1.0	70
160/250	250	1.0	250 - 75	1.0	70
180/280	280	1.0	280 - 75	1.0	70
200/315	315	1.0	315 - 75	1.0	70
225/315	315	1.0	315 - 75	1.0	70
250/355	355	1.0	355 - 75	1.0	70
280/400	400	1.0	400 - 75	1.0	70
315/450	450	1.0	450 - 75	1.0	70

Other dimensions can be supplied on request.

# PE jointing methods

Fusion welded

## Sleeves

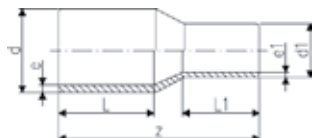


### Cold water, 16 bar

Material: PE 100 / SDR 11

PE pipe mm	Sleeve mm	d1 mm	L mm
125 x 11.4	125	154	158
140 x 12.7	140	172	168
160 x 14.6	160	196	180
180 x 16.4	180	219	194
200 x 18.2	200	244	208
225 x 20.5	225	273	224
250 x 22.7	250	304	244
280 x 25.4	280	340	252
315 x 28.6	315	382	268

## Reduction sleeves

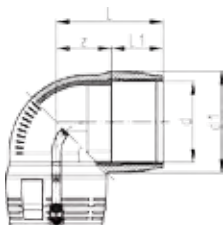


### Cold water, 16 bar

Material: PE 100 / SDR 11

PE pipe mm	Sleeve mm	d mm	d1 mm	L mm	L1 mm	z mm
125 x 11.4/110 x 10.0	125/110	125	110	92	86	212
140 x 12.7/125 x 11.4	140/125	140	125	110	90	235
160 x 14.6/140 x 12.7	160/140	160	140	120	110	260
180 x 16.4/160 x 14.6	180/160	180	160	107	102	255
200 x 18.2/180 x 16.4	200/180	200	180	117	107	265
225 x 20.5/200 x 18.2	225/200	225	200	122	117	280
250 x 22.7/225 x 20.5	250/225	250	225	130	120	332
280 x 25.4/250 x 22.7	280/250	280	250	140	130	340
315 x 28.6/280 x 25.4	315/280	315	280	150	139	365

## Angle piece, 90° equal

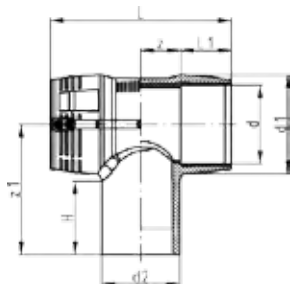


### Cold water, 16 bar

Material: PE 100 / SDR 11

PE pipe mm	Sleeve mm	d1 mm	L mm	L1 mm	z mm
125 x 11.4	125	151	142	74	68
140 x 12.7*	140	only possible with spigot fittings			
160 x 14.6	160	196	178	92	86
180 x 16.4	180	219	195	95	100
200 x 18.2	200	245	265	104	161
225 x 20.5	225	274	305	112	193
250 x 22.7	250	305	335	123	212
280 x 25.4*	280	only possible with spigot fittings			
315 x 28.6*	315	dto.			

## T-pieces equal



### Cold water, 16 bar

Material: PE 100 / SDR 11

PE pipe mm	T-piece mm	d1 mm	L mm	L1 mm	z mm	z1 mm	H mm
125 x 11.4	125	161	276	78	60	207	113
140 x 12.7*	140	only possible with spigot fittings					
160 x 14.6	160	196	325	92	71	206	103
180 x 16.4	180	225	344	90	82	250	110
200 x 18.2	200	245	560	104	176	250	117
225 x 20.5	225	274	610	112	193	270	122
250 x 22.7	250	305	667	123	211	288	127
280 x 25.4*	280	only possible with spigot fittings					
315 x 28.6*	315	dto.					

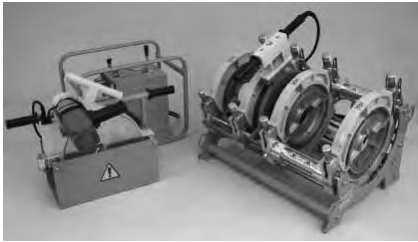
\*on request available, just as further reductions and fittings for pipe class SDR 17

(Source: Georg Fischer AG)

# PE jointing methods

Alternative connections

## Butt-fusion



(Source: PF-Schweisstechnologie GmbH)

## Mechanical pipe couplings



**To join:**  
plastic to plastic, or  
plastic to metal pipes  
Ø 40 - 250 mm

(Source: Straub Werke AG)

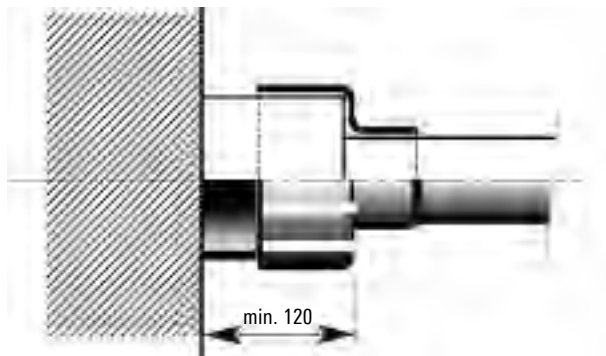
All jointing methods listed on this sheet are available on request.

# End closure

Shrink-type closure, end caps (LD-PE)

## Shrink-on closure

COOLMANT shrink-on closures protect the PUR insulation on the front of the COOLMANT pipes against splashing water in buildings and shafts. **Important:** in contact with water (flooding), the shrink-on closure is not necessarily watertight! The shrink-on closure also stops gas escaping from the PUR insulation.



## Important fitting note

COOLMANT shrink-on closures must be pushed onto the end of the COOLMANT pipes before welding the inner pipes and must be protected against the action of heat during welding.

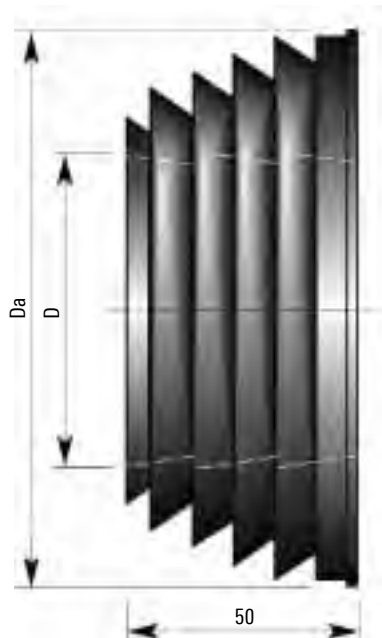
## Material:

Heat-shrunk, cross-linked polyolefin.  
Coated with sealing adhesive

# Wall sealing ring

for wall openings

Wall sealing ring



## COOLMANT

Type CLM	Da
125/225	265
140/225	265
160/250	290
180/280	355
200/315	355
225/315	355
250/335	395
280/400	440
315/450	490

## Pipe warning tape

- To be laid in the ground
- Standard roll length: 250 m
- Installation depth: see sheet CLM 2.505

