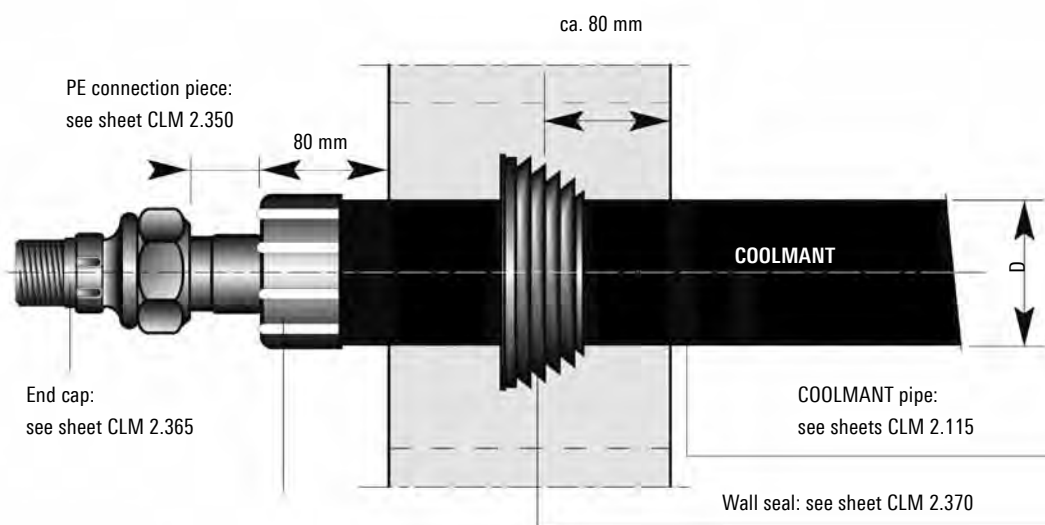


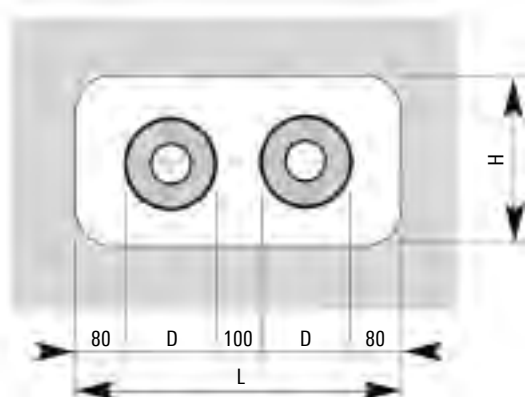
Building entry

Wall opening

Wall leadthrough



Wall opening



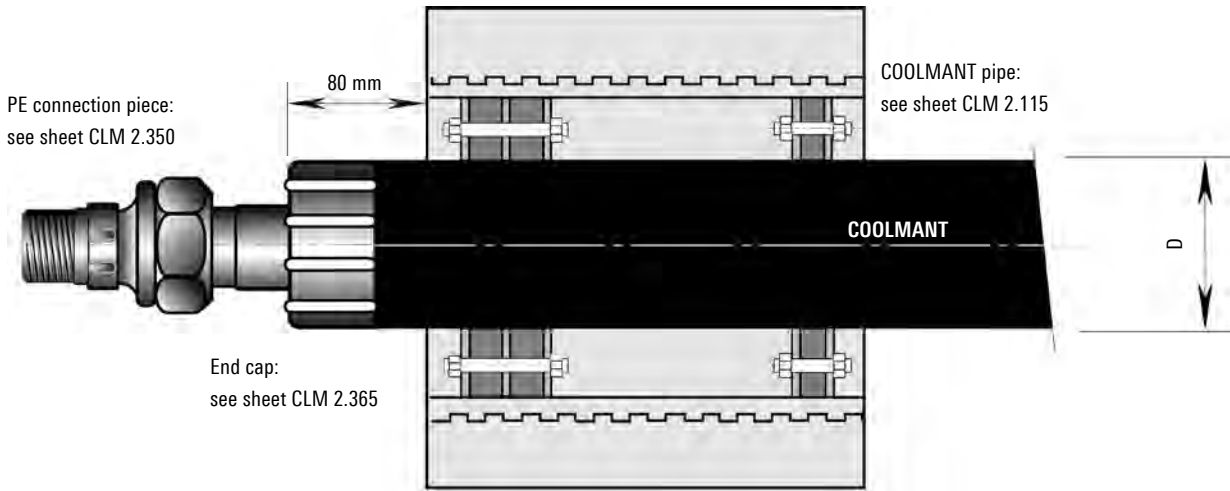
Figures in mm

Outer casing Ø D mm	L min mm	H min mm
225	810	400
250	860	400
280	920	450
315	990	450
355	1070	500
400	1160	550
450	1260	600

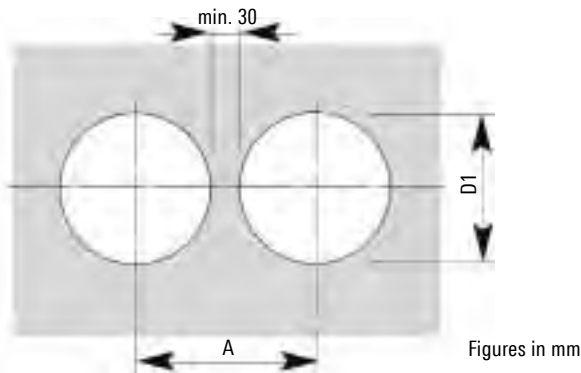
Building entry

Core bores/cement pipe liners

Wall leadthrough



Core bores



Outer casing Ø D mm	D1 mm	A mm
225	300	330
250	350	380
280	350	380
315	400	430
355	450	480
400	500	530
450	600	630

Core bores

Perfect bores are required for installation. As hairline cracks may be present in the concrete or result from drilling, it is advisable to seal the entire length of the borehole wall with suitable sealant (such as AQUAGARD).

Tightness can only be guaranteed if this recommendation is followed.

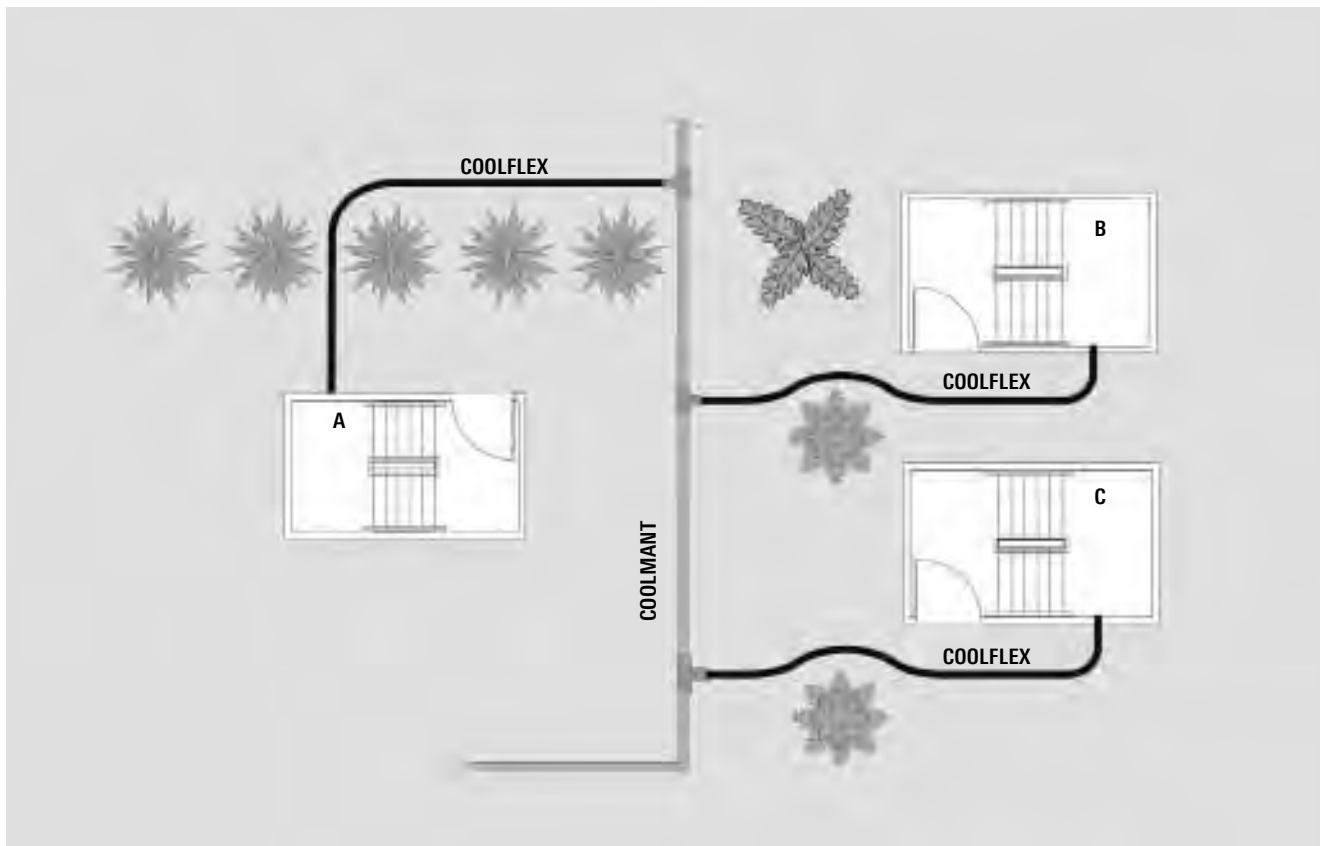
Key

- 1 COOLMANT
- 2 Sealing set, single-seal, width 1 x 40 mm, Shore hardness D35
- 3 Sealing set, double-seal*, width 2 x 40 mm, Shore hardness D35
- 4 Liner pipe: made of fiber cement or coated core bore

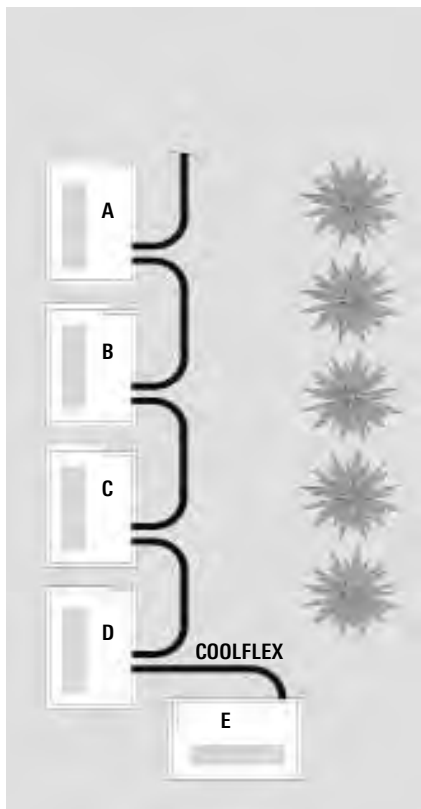
* Suitable for pressure from water up to 0.5 bar

Pipe routing

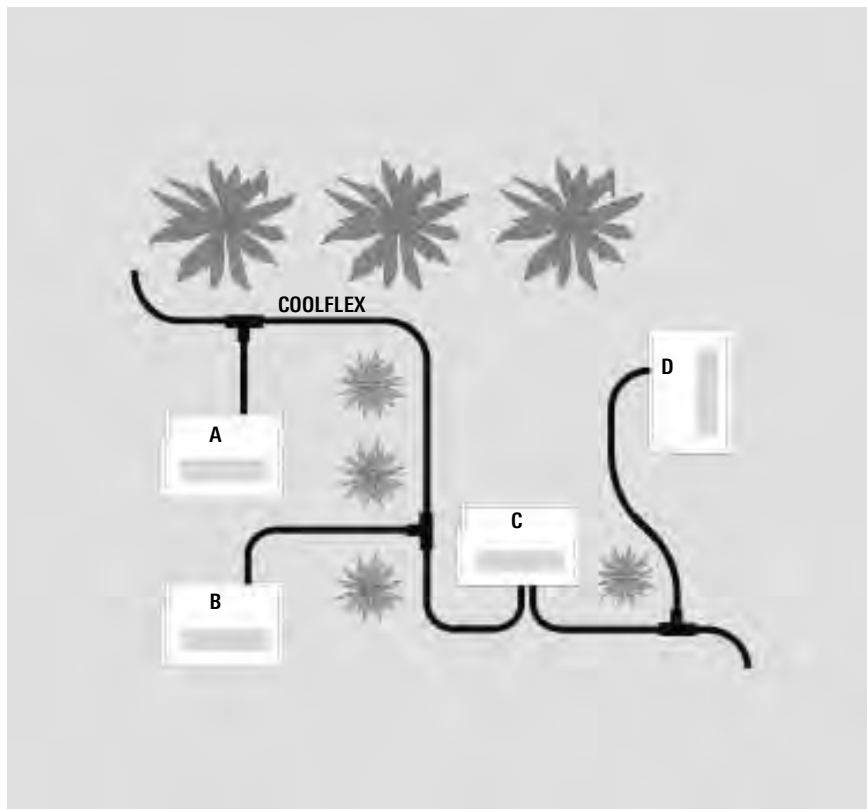
COOLFLEX – COOLMANT connection



Loop-in method

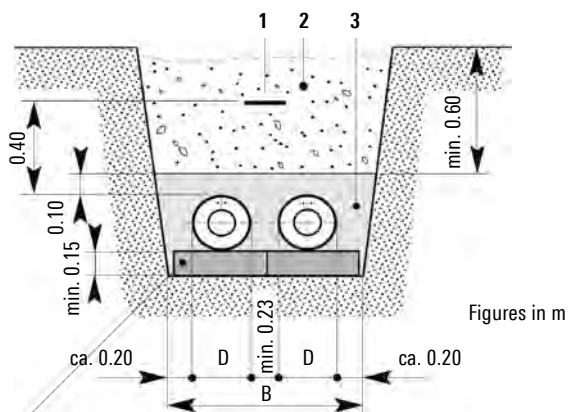


COOLFLEX – COOLFLEX connection



Trench dimensions

Trench profile, 2 COOLMANT pipes (Ø 125 - Ø 315)



- 1 Pipe warning tape; see sheet CLM 2.370
- 2 Excavated material
- 3 Sand, washed, max. grain size 8 mm

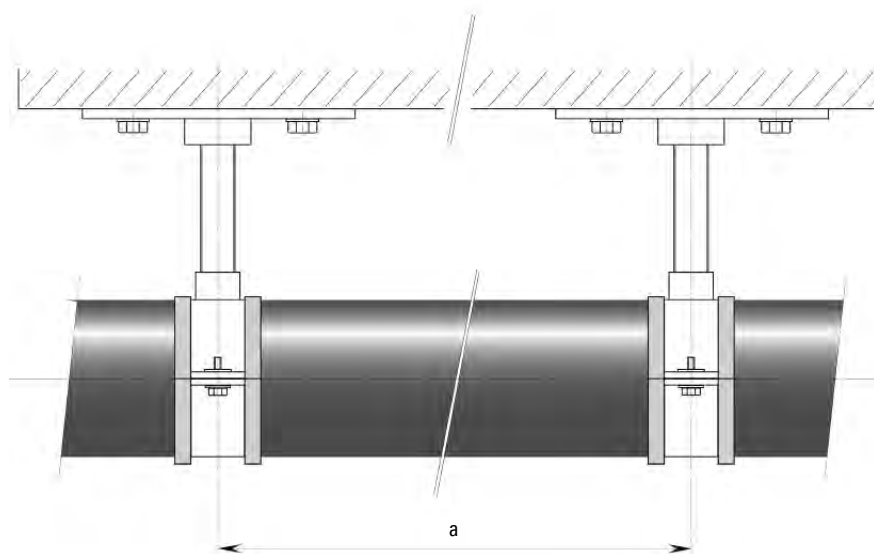
Casing pipe Ø D mm	Width B cm	Depth T cm
225	105	as per trench profile
250	110	as per trench profile
280	120	as per trench profile
315	130	as per trench profile
355	135	as per trench profile
400	145	as per trench profile
450	155	as per trench profile

Installation depth:
 max. installation depth: 2.6 m
 Our approval is required for installation at greater depths.

SLW 30 \triangleq 300 kN total load as per DIN 1072; if subject to higher traffic loads (e.g. SLW 60), a load-distributing superstructure as per RSt075 is required.

With no traffic load, the minimum trench depth T can be reduced by 20 cm.

Surface installation



Special measures are required for surface installation of COOLMANT district cooling pipes:

- Provide supports for changes of direction
- Secure with clamps and pressure distribution plates at specified intervals, in the 90° bend
- Clamps
- Fix ends with fixed points
- Assistance with design engineering and planning from BRUGG

Type	Weight including water kg/m	Minimum Bending radius m	distance between clamps a m
125/225	15.9	–	2.0
140/225	18.8	–	2.2
160/250	24.2	–	2.4
180/280	30.6	–	2.6
200/315	38.0	–	2.8
225/315	45.7	–	3.1
250/355	56.8	–	3.3
280/400	71.4	–	3.6
315/450	90.3	–	3.9