

Domestic connection system

Flexible, endless pipe system

Operating temperatures up to 160 °C

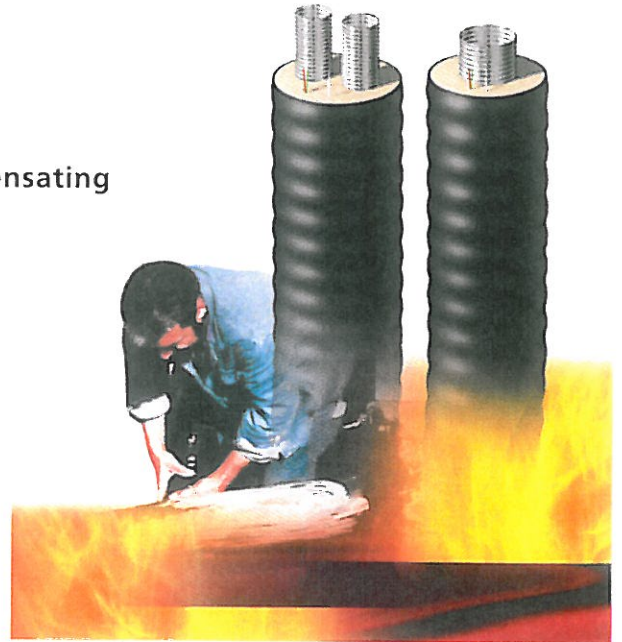
Peak temperatures up to 180 °C, self-compensating

Reliable and easy-to-monitor

Fast and simple installation

System Advantages:

CASAFLEX® significantly reduces the cost of materials, assembly and underground work when making domestic connections



CASAFLEX® «180» Save even at high operating temperatures

CASAFLEX® pipe system

CASAFLEX® is a flexible, self-compensating, heat-insulated pipe system featuring single or twin pipes made of stainless steel.

Structure

CASAFLEX® features a corrugated stainless steel carrier pipe. The pipe is insulated against heat loss by an outstandingly efficient, flexible, CFC-free hard polyurethane (polyisocyanurate) foam. A multilayer barrier film under the outer PE-LD cladding prevents the escape of cellular gases from the hard foam. The diffusion barrier and the design of CASAFLEX® pipe systems ensures minimal heat loss even at high temperatures: operating temperature up to 160 °C, peak temperature up to 180 °C.

Cost/Benefit-Ratio

Track routing with CASAFLEX®-pipe system means: A reduction of planning overhead and lower under-

ground costs for local heating networks and domestic connections.

The flexible pipe systems adapts to any desired routing and thereby makes it possible to connect via the shortest, most cost-effective path from the mains line to the house connection point.

CASAFLEX®, the flexible „endless“ pipe system, can be laid without static calculations in extremely narrow and shallow trenches.

Flexible, self-deairing, self-compensating

The helically corrugated pipe is ideal for liquid flow and give the stainless steel pipe its special qualities, such as self-deairing and self-compensation.

Safe and easily monitored

The use of three detecting conductors as standard means that CASAFLEX® is compatible with leading monitoring systems.

Technical specifications

CASAFLEX®-UNO and CASAFLEX®-DUO

Operating temperature: up to 160 °C
 Peak temperature: up to 180 °C
 Design: PN 16/25



CASAFLEX®-UNO

Type	DN	inches	pipe connector D x s [mm]	outer pipe [mm]	min. bending radius [m]	capacity carrier pipe [l/m]	weight [kg/m]	max. delivery length	
		["]						drum ¹⁾ [m]	coils ²⁾ [m]
22/91 PLUS	20	3/4	26.9 x 2.65	93	0.8	0.44	1.30	570	245/370*
30/91	25	1	33.7 x 3.2	93	0.8	0.80	1.48	570	245/370*
30/111 PLUS	25	1	33.7 x 3.2	113	1.0	0.80	1.93	370	200/260*
39/111	32	1 1/4	42.4 x 3.2	113	1.0	1.35	2.15	370	200/260*
39/126 PLUS	32	1 1/4	42.4 x 3.2	128	1.2	1.35	2.60	230	160/190*
48/111	40	1 1/2	48.3 x 3.2	113	1.0	2.04	2.46	370	200/260*
48/126 PLUS	40	1 1/2	48.3 x 3.2	128	1.2	2.04	2.92	230	160/190*
60/126	50	2	60.3 x 3.6	128	1.2	3.12	3.02	230	160/190*
60/142 PLUS	50	2	60.3 x 3.6	144	1.3	3.12	3.54	210	110/140*
75/142	65	2 1/2	76.1 x 3.6	144	1.5	5.12	4.10	210	110/140*
75/162 PLUS	65	2 1/2	76.1 x 3.6	164	1.8	5.12	4.80	180	90/125*
98/162	80	3	88.9 x 4.0	164	1.8	8.43	5.70	180	90/125*
127/182**	100	4	114.3 x 4.5	184	2.0	14.3	7.40	-	86

1) drum dimensions Ø 3000 x 1600 (large), Type EX20

2) coil dimensions Ø 2800 x 800 (large)

* on request ** PN 16 and 130 °C only



CASAFLEX®-DUO

Type CASAFLEX	DN	inches	pipe connector D x s [mm]	outer pipe D x s ₁ [mm]	min. bending radius [m]	capacity carrier pipe [l/m]	weight [kg/m]	dmax. delivery length	
		["]						drum ¹⁾ [m]	coils ²⁾ [m]
22 + 22/111	20	3/4	26.9 x 2.65	113	1.1	0.44	2.5	370	200/260*
30 + 30/126	25	1	33.7 x 3.2	128	1.4	0.80	3.1	230	160/190*
39 + 39/142	32	1 1/4	42.4 x 3.2	144	1.5	1.35	3.7	210	110/140*

1) drum dimensions Ø 3000 x 1600 (large), Type EX20

2) coil dimensions Ø 2800 x 800 (large)

* on request

The next-generation Solution

CASAFLEX® domestic connection pipe is delivered in customer-specified lengths as a ring. CASAFLEX® can be easily transported and quickly laid. From the technical, construction and economic points of view, it provides a system that is optimal for implementing domestic connections in local and district heating networks.



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