



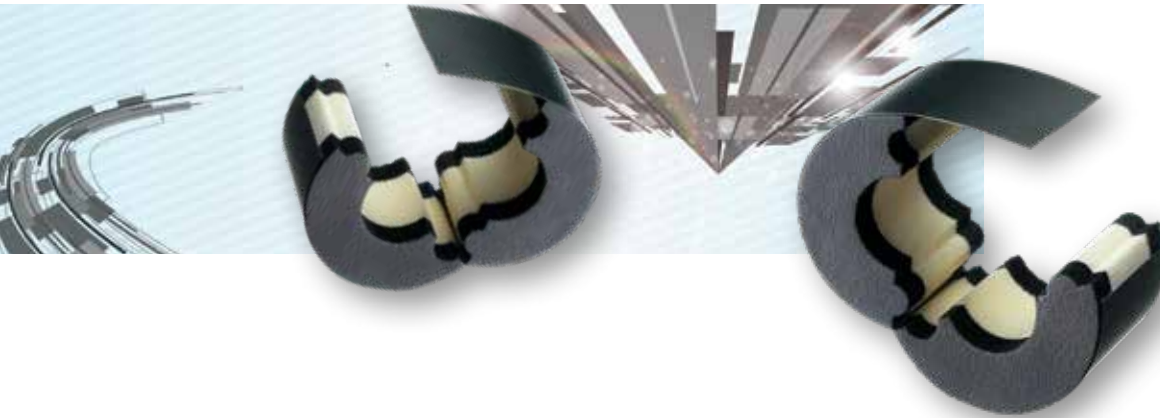
kaiflex® RT-ST

Load bearing protection against thermal bridging and corrosion

Kaiflex RT-ST insulated load bearing pipe sections are vapour sealed and prevent condensation, corrosion and energy loss at critical points.

- Reliably prevents thermal bridging
- Vapour barrier in-built
- Reduces energy losses
- Reliable long term performance
- Easy to apply





Kaiflex RT-ST insulated load bearing pipe sections are vapour sealed and resistant to compression. With excellent thermal performance Kaiflex RT-ST pipe sections prevent condensation, corrosion and energy loss at critical points.

Kaiflex RT-ST consists of high density, compression resistant, PIR foam sections combined with water vapour resistant Kaiflex ST insulation and a protective outer shell covering. Load bearing pipe clamps that would tear or compress standard insulation tubes can be applied directly around Kaiflex RT-ST sections.

Fully compatible with all other Kaiflex products, Kaiflex RT-ST sections feature an interlocking design and represent a durable, reliable and visually attractive solution that prevents avoidable energy loss and helps to keep pipework free of corrosion.



Prevents condensation & corrosion at pipe supports

Pipe supports are natural weak points where condensation and corrosion are more likely. Kaiflex insulation systems keep pipe supports dry and free from corrosion.



Restricts thermal bridging

Thermal bridges are weak points in an insulation system through which energy is lost at a much faster rate. Insulation can effectively break thermal bridges, greatly improving the overall performance.



Load bearing without compression

Insulation applied at pipe supports must be capable of bearing the weight of the insulated pipe without compression. Kaiflex pipe supports incorporate a rigid load bearing element to prevent compression.

Kaiflex RT-ST Technical Data

Material		Two PUR/PIR bearing segments, embedded in elastomeric foam based on synthetic rubber.	
Covering		PVC	
Colour		Black	
Upper temperature limit		+110 °C	
Lower temperature limit		-50 °C	See remark (1)
Thermal conductivity		see Kaiflex ST	
Water vapour permeability	Moisture resistance factor μ	see Kaiflex ST No separate vapour barrier required	
Euroclass [°]		E _L (as part of a system incl. Kaiflex ST tubes: B _L -s3, d0)	Test acc. to DIN EN 13501-1
Density	Insulation insert	80/120 kg/m ³	
Other attributes	Insulation insert Storage temperature Application temperature	CFC-free ≥ +10 °C ≥ +10 °C	
Shelf life		1 year	Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C)

Remark (1) For temperatures below -50 °C please contact our Technical Support Team for advice.

[°] The Euroclass rating applies to metallic or solid mineral substrates.

Kaiflex RT-ST Technical Data · Pipe clamp

Description		2-piece pipe clamp: 2 lock screws. Protective outer shell covering for load bearing pipe clamps.	
Max. permissible load and tensibility		Ø 1.300 N. Maximum permissible load (Fa,z) was determined by application of statistical methods of tensile strengths in compliance with a max. admissible deformation of 1. mm and 2 % of the max. tensible pipe diameter.	
Technical data		Made of steel, electrolytically galvanised.	
Lock screw		Hexagon screws with cross recess, electrolytically galvanised. Four-fold welded on terminal nut.	
Screw thread		M 8 / M 10 nut-and washer-assembly	
Clamping/Tension screws		M 6 or M 8	
Width of clamp strap		20 to 25 mm	
Thickness of clamp strap		1,25 to 3,0 mm	



Kaiflex RT-ST Pipe support · self-adhesive

Colour: Black												
Copper pipe Cu	Iron & steel pipe Fe		Max. support interval m (in acc. with DIN 1988)	13 mm Insulation thickness				19 mm Insulation thickness				
	OD mm	Inch		OD mm	OD mm	Reference	Order No.	Carton content	OD mm	Reference	Order No.	Carton content
10,0	3/8	10,2	2,00	36,0	RT-ST13x010	28613010	52	48,0	RT-ST19x010	28619010	32	
12,0		12,5	2,00	38,0	RT-ST13x012	28613012	48	50,0	RT-ST19x012	28619012	28	
15,0	1/4	13,5	2,00	41,0	RT-ST13x015	28613015	40	53,0	RT-ST19x015	28619015	22	
18,0	5/8	17,2	2,25	44,0	RT-ST13x018	28613018	32	56,0	RT-ST19x018	28619018	20	
22,0	1/2	21,3	2,75	48,0	RT-ST13x022	28613022	32	60,0	RT-ST19x022	28619022	32	
28,0	3/4	26,9	3,00	54,0	RT-ST13x028	28613028	40	66,0	RT-ST19x028	28619028	24	
35,0	1	33,7	3,50	61,0	RT-ST13x035	28613035	30	73,0	RT-ST19x035	28619035	38	
42,0	1 1/4	42,4	3,75	68,0	RT-ST13x042	28613042	46	80,0	RT-ST19x042	28619042	32	
	1 1/2	48,3	4,25	74,0	RT-ST13x048	28613048	34	86,0	RT-ST19x048	28619048	28	
54,0		54,0	4,25	80,0	RT-ST13x054	28613054	32	93,0	RT-ST19x054	28619054	48	
57,0		57,0	4,25	83,0	RT-ST13x057	28613057	28	95,0	RT-ST19x057	28619057	48	
	2	60,3	4,75	86,0	RT-ST13x060	28613060	56	98,0	RT-ST19x060	28619060	44	
64,0		63,5	4,75	92,0	RT-ST13x064	28613064	48		RT-ST19x064	28619064	40	
70,0		70,0	4,75	98,0	RT-ST13x070	28613070	44	110,0	RT-ST19x070	28619070	30	
76,1	2 1/2	76,1	5,50	104,0	RT-ST13x076	28613076	40	116,0	RT-ST19x076	28619076	30	
88,9	3	88,9	6,00	117,0	RT-ST13x089	28613089	30	129,0	RT-ST19x089	28619089	26	
	3 1/2	101,6	6,00	130,0	RT-ST13x102	28613102	22	142,0	RT-ST19x102	28619102	22	
108,0		108,0	6,00	136,0	RT-ST13x108	28613108	22	148,0	RT-ST19x108	28619108	18	
114,0	4	114,3	6,00	144,0	RT-ST13x114	28613114	18	156,0	RT-ST19x114	28619114	16	
133,0		133,0	6,00	163,0	RT-ST13x133	28613133	14	175,0	RT-ST19x133	28619133	12	
	5	139,7	6,00	170,0	RT-ST13x140	28613140	14	182,0	RT-ST19x140	28619140	12	
159,0		160,0	6,00	190,0	RT-ST13x160	28613160	12	202,0	RT-ST19x160	28619160	8	
168,0		168,3	6,00	196,0	RT-ST13x168	28613168	12	208,0	RT-ST19x168	28619168	8	
		219,1	6,00	247,0	RT-ST13x219	28613219	4	259,0	RT-ST19x219	28619219	4	

Length pipe support: <133 mm: 50 mm · ≥133 mm: 100 mm



Kaiflex RT-ST Pipe support · self-adhesive

Colour: Black											
Copper pipe Cu	Iron & steel pipe Fe		Max. support interval m (in acc. with DIN 1988)	32 mm Insulation thickness				Carton content			
	OD mm	Inch		OD mm	OD mm	Reference	Order No.				
10,0	3/8	10,2	2,00								
12,0		12,5	2,00								
15,0	1/4	13,5	2,00	79,0	RT-ST32x015	28632015	18				
18,0	5/16	17,2	2,25	82,0	RT-ST32x018	28632018	28				
22,0	1/2	21,3	2,75	86,0	RT-ST32x022	28632022	24				
28,0	3/4	26,9	3,00	92,0	RT-ST32x028	28632028	24				
35,0	1	33,7	3,50	99,0	RT-ST32x035	28632035	18				
42,0	1 1/4	42,4	3,75	106,0	RT-ST32x042	28632042	40				
	1 1/2	48,3	4,25	112,0	RT-ST32x048	28632048	30				
54,0		54,0	4,25	118,0	RT-ST32x054	28632054	30				
57,0		57,0	4,25	121,0	RT-ST32x057	28632057	28				
	2	60,3	4,75	124,0	RT-ST32x060	28632060	26				
64,0		63,5	4,75	130,0	RT-ST32x064	28632064	24				
70,0		70,0	4,75	136,0	RT-ST32x070	28632070	22				
76,1	2 1/2	76,1	5,50	142,0	RT-ST32x076	28632076	22				
88,9	3	88,9	6,00	155,0	RT-ST32x089	28632089	16				
	3 1/2	101,6	6,00	168,0	RT-ST32x102	28632102	12				
108,0		108,0	6,00	174,0	RT-ST32x108	28632108	12				
114,0	4	114,3	6,00	182,0	RT-ST32x114	28632114	12				
133,0		133,0	6,00	201,0	RT-ST32x133	28632133	8				
	5	139,7	6,00	208,0	RT-ST32x140	28632140	8				
159,0		160,0	6,00	228,0	RT-ST32x160	28632160	6				
168,0		168,3	6,00	234,0	RT-ST32x168	28632168	6				
		219,1	6,00	285,0	RT-ST32x219	28632219	4				

Length pipe support: <133 mm: 50 mm · ≥133 mm: 100 mm

Full Set: Pipe support + clamp



Kaiflex RT-ST Set Pipe support · self-adhesive · with clamp

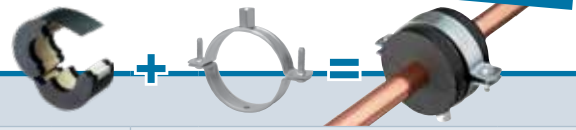
Colour: Black

Copper pipe Cu	Iron & steel pipe Fe		Max. support interval m (in acc. with DIN 1988)	13 mm Insulation thickness				19 mm Insulation thickness			
	OD mm	Inch		OD mm	Support OD mm	Reference	Order No.	Carton content	Support OD mm	Reference	Order No.
10,0	3/8	10,2	2,00	36,0	RT-ST13x010-S	27613010	52	48,0	RT-ST19x010-S	27619010	32
12,0		12,5	2,00	38,0	RT-ST13x012-S	27613012	48	50,0	RT-ST19x012-S	27619012	28
15,0	1/4	13,5	2,00	41,0	RT-ST13x015-S	27613015	40	53,0	RT-ST19x015-S	27619015	22
18,0	3/8	17,2	2,25	44,0	RT-ST13x018-S	27613018	32	56,0	RT-ST19x018-S	27619018	20
22,0	1/2	21,3	2,75	48,0	RT-ST13x022-S	27613022	32	60,0	RT-ST19x022-S	27619022	32
28,0	3/4	26,9	3,00	54,0	RT-ST13x028-S	27613028	40	66,0	RT-ST19x028-S	27619028	24
35,0	1	33,7	3,50	61,0	RT-ST13x035-S	27613035	30	73,0	RT-ST19x035-S	27619035	38
42,0	1 1/4	42,4	3,75	68,0	RT-ST13x042-S	27613042	46	80,0	RT-ST19x042-S	27619042	32
	1 1/2	48,3	4,25	74,0	RT-ST13x048-S	27613048	34	86,0	RT-ST19x048-S	27619048	28
54,0		54,0	4,25	80,0	RT-ST13x054-S	27613054	32	92,0	RT-ST19x054-S	27619054	48
57,0		57,0	4,25	83,0	RT-ST13x057-S	27613057	28	86,0	RT-ST19x057-S	27619057	48
	2	60,3	4,75	86,0	RT-ST13x060-S	27613060	56	98,0	RT-ST19x060-S	27619060	44
64,0		63,5	4,75	92,0	RT-ST13x064-S	27613064	48	104,0	RT-ST19x064-S	27619064	40
70,0		70,0	4,75	98,0	RT-ST13x070-S	27613070	44	110,0	RT-ST19x070-S	27619070	32
76,1	2 1/2	76,1	5,50	104,0	RT-ST13x076-S	27613076	40	116,0	RT-ST19x076-S	27619076	30
88,9	3	88,9	6,00	117,0	RT-ST13x089-S	27613089	30	129,0	RT-ST19x089-S	27619089	26
	3 1/2	101,6	6,00	130,0	RT-ST13x102-S	27613102	22	142,0	RT-ST19x102-S	27619102	22
108,0		108,0	6,00	136,0	RT-ST13x108-S	27613108	22	148,0	RT-ST19x108-S	27619108	18
114,0	4	114,3	6,00								
133,0		133,0	6,00	163,0	RT-ST13x133-S	27613133	14	175,0	RT-ST19x133-S	27619133	12
	5	139,7	6,00	170,0	RT-ST13x140-S	27613140	14	182,0	RT-ST19x140-S	27619140	12
159,0		160,0	6,00					202,0	RT-ST19x160-S	27619160	8
168,0		168,3	6,00	196,0	RT-ST13x168-S	27613168	12	208,0	RT-ST19x168-S	27619168	8
		219,1									

Length pipe support: <133 mm: 50 mm · ≥133 mm: 100 mm

Load bearing protection against thermal bridging and corrosion

Full Set: Pipe support + clamp



Kaiflex RT-ST Set Pipe support · self-adhesive · with clamp

Colour: Black

Copper pipe Cu	Iron & steel pipe Fe		Max. support interval m (in acc. with DIN 1988)	32 mm Insulation thickness				Support OD mm	Reference	Order No.	Carton content
	OD mm	Inch		OD mm							
10,0		1/8	10,2	2,00							
12,0			12,5	2,00							
15,0		1/4	13,5	2,00	79,0	RT-ST32x015-S	27632015	18			
18,0		3/8	17,2	2,25	82,0	RT-ST32x018-S	27632018	28			
22,0		1/2	21,3	2,75	86,0	RT-ST32x022-S	27632022	24			
28,0		3/4	26,9	3,00	92,0	RT-ST32x028-S	27632028	24			
35,0		1	33,7	3,50	99,0	RT-ST32x035-S	27632035	18			
42,0		1 1/4	42,4	3,75	106,0	RT-ST32x042-S	27632042	40			
		1 1/2	48,3	4,25	112,0	RT-ST32x048-S	27632048	30			
54,0			54,0	4,25	118,0	RT-ST32x054-S	27632054	30			
57,0			57,0	4,25							
		2	60,3	4,75	124,0	RT-ST32x060-S	27632060	26			
64,0			63,5	4,75	130,0	RT-ST32x064-S	27632064	24			
70,0			70,0	4,75	136,0	RT-ST32x070-S	27632070	22			
76,1		2 1/2	76,1	5,50	142,0	RT-ST32x076-S	27632076	22			
88,9		3	88,9	6,00							
		3 1/2	101,6	6,00	168,0	RT-ST32x102-S	27632102	12			
108,0			108,0	6,00							
114,0		4	114,3	6,00	182,0	RT-ST32x114-S	27632114	12			
133,0			133,0	6,00	201,0	RT-ST32x133-S	27632133	8			
		5	139,7	6,00	208,0	RT-ST32x140-S	27632140	8			
159,0			160,0	6,00							
168,0			168,3	6,00							
			219,1								

Length pipe support: <133 mm: 50 mm · ≥133 mm: 100 mm

kaiflex[®] RT-ST

Load bearing protection against thermal bridging and corrosion



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