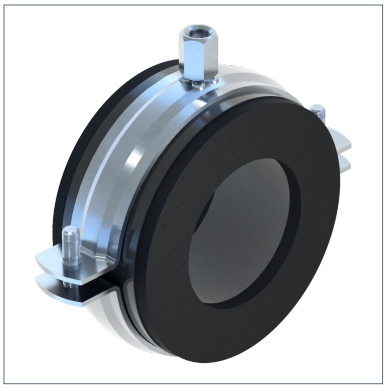
Chilled Water Clamp LKS 19



General Information

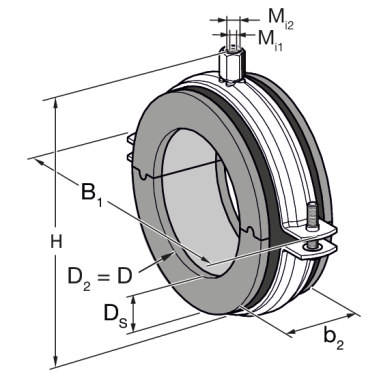
Suitable for secure prevention of condensation water at the pipe support location of refrigeration and cold-water pipelines. An optimal diffusion-tight connection with the pipe insulation is easily and safely achieved by fixing usual insulation materials to the clamp faces using adhesive. Recommended up to -0°C at normal ambient condition.

Installation

The tightening torque is 2 Nm for all sizes.

For types up to 168, the maximum support spans specified in DIN 1988 may be used.

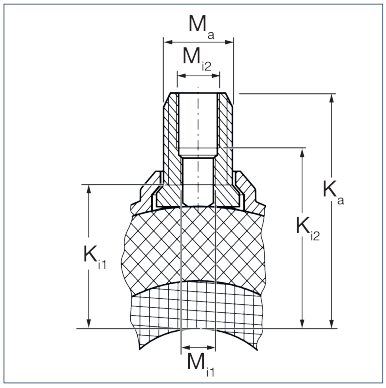
The installation instructions in DIN 4140 must be observed (any gaps must be sealed).



Type	Nominal thickness [mm]	Size	Length PUR element [mm]
LKS 19	19	15 - 89	50
LKS 19	19	102 - 273	100

Temperature

Max. temperature	105 °C
Min. temperature	-40 °C

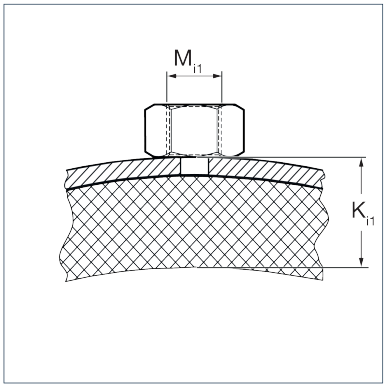


Thermal Conductivity

Thermal conductivity λ {0°C}	λ = 0,024 - 0,026 W/mK
Thermal conductivity λ {10°C}	λ = 0,038 W/mK
Thermal conductivity λ {40°C}	λ = 0,040 W/mK

Mechanical Properties

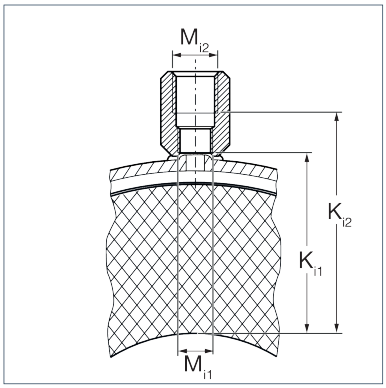
Insertion isolation	18 dB(A)



Material Properties

Halogen-free	1
UV-resistant	0
Water vapour diffusion resistance factor	μ 7000
Storage shelf life	1 year

Chilled Water Clamp LKS 19



Material

Primary element material	steel
Isolating element material	PUR ALU EPDM
Connecting element material	steel
Surface finish	electro galvanized (Fe//Zn)
Corrosion protection class	C2

Forces

Type	-V{Z,perm.}
LKS 19- 15	0,35 kN
LKS 19- 16	0,40 kN
LKS 19- 18	0,45 kN
LKS 19- 20	0,50 kN
LKS 19- 22	0,55 kN
LKS 19- 25	0,60 kN
LKS 19- 26	0,60 kN
LKS 19- 28	0,60 kN
LKS 19- 30	0,60 kN
LKS 19- 32	0,60 kN
LKS 19- 35	0,60 kN
LKS 19- 38	0,60 kN
LKS 19- 40	0,60 kN
LKS 19- 42	0,60 kN
LKS 19- 44	0,60 kN
LKS 19- 48	0,60 kN
LKS 19- 50	1,10 kN
LKS 19- 54	1,15 kN
LKS 19- 57	1,15 kN
LKS 19- 60	1,20 kN
LKS 19- 64	1,25 kN
LKS 19- 70	1,30 kN
LKS 19- 76	1,40 kN
LKS 19- 80	1,45 kN
LKS 19- 89	1,55 kN
LKS 19-102	1,70 kN
LKS 19-108	1,80 kN

Type	-V{Z,perm.}
LKS 19-110	1,80 kN
LKS 19-114	1,85 kN
LKS 19-125	2,00 kN
LKS 19-133	2,10 kN
LKS 19-139	3,50 kN
LKS 19-160	3,85 kN
LKS 19-168	4,05 kN
LKS 19-180	4,25 kN
LKS 19-200	4,65 kN
LKS 19-219	5,05 kN
LKS 19-225	5,15 kN
LKS 19-250	5,65 kN
LKS 19-273	6,10 kN

Fire Performance

Class B2 according to DIN 4102

Types

Type	Pipe diameter (outside)	Thread connection	Insulation thickness	Weight	Quantity	Part number
LKS 19-15	15,00 mm	M8/M10	19 mm	0,091 kg/pcs.	42 pcs.	114730
LKS 19-16	16,00 mm	M8/M10	19 mm	0,086 kg/pcs.	42 pcs.	114731
LKS 19-18	18,00 mm	M8/M10	19,5 mm	0,098 kg/pcs.	42 pcs.	114733
LKS 19-20	20,00 mm	M8/M10	19,5 mm	0,094 kg/pcs.	42 pcs.	114734
LKS 19-22	22,00 mm	M8/M10	19,5 mm	0,103 kg/pcs.	42 pcs.	114735
LKS 19-25	25,00 mm	M8/M10	19,5 mm	0,103 kg/pcs.	42 pcs.	114736
LKS 19-26	26,00 mm	M8/M10	19,5 mm	0,101 kg/pcs.	42 pcs.	114737
LKS 19-28	28,00 mm	M8/M10	20 mm	0,111 kg/pcs.	36 pcs.	114738
LKS 19-30	30,00 mm	M8/M10	20 mm	0,111 kg/pcs.	36 pcs.	114739
LKS 19-32	32,00 mm	M8/M10	20 mm	0,108 kg/pcs.	36 pcs.	114740

Chilled Water Clamp LKS 19

Type	Pipe diameter (outside)	Thread connection	Insulation thickness	Weight	Quantity	Part number
LKS 19-35	35,00 mm	M8/M10	20 mm	0,174 kg/pcs.	24 pcs.	114741
LKS 19-38	38,00 mm	M8/M10	21,5 mm	0,177 kg/pcs.	24 pcs.	114742
LKS 19-40	40,00 mm	M8/M10	21,5 mm	0,178 kg/pcs.	24 pcs.	114743
LKS 19-42	42,00 mm	M8/M10	21,5 mm	0,186 kg/pcs.	24 pcs.	114744
LKS 19-44	44,00 mm	M8/M10	21,5 mm	0,170 kg/pcs.	24 pcs.	114745
LKS 19-48	48,00 mm	M8/M10	21,5 mm	0,204 kg/pcs.	18 pcs.	114746
LKS 19-50	50,00 mm	M8/M10	21,5 mm	0,198 kg/pcs.	18 pcs.	114747
LKS 19-54	54,00 mm	M8/M10	21,5 mm	0,188 kg/pcs.	18 pcs.	114748
LKS 19-57	57,00 mm	M8/M10	22 mm	0,226 kg/pcs.	18 pcs.	114749
LKS 19-60	60,00 mm	M8/M10	22 mm	0,229 kg/pcs.	18 pcs.	114751
LKS 19-64	64,00 mm	M8/M10	22 mm	0,230 kg/pcs.	18 pcs.	114752
LKS 19-70	70,00 mm	M8/M10	22 mm	0,239 kg/pcs.	18 pcs.	114753
LKS 19-76	76,00 mm	M8/M10	22 mm	0,304 kg/pcs.	18 pcs.	114754
LKS 19-80	80,00 mm	M8/M10	22 mm	0,312 kg/pcs.	18 pcs.	114755
LKS 19-89	89,00 mm	M8/M10	22 mm	0,359 kg/pcs.	10 pcs.	114756
LKS 19-102	102,00 mm	M8/M10	22,5 mm	0,451 kg/pcs.	10 pcs.	114757
LKS 19-108	108,00 mm	M8/M10	22,5 mm	0,460 kg/pcs.	10 pcs.	114758
LKS 19-110	110,00 mm	M8/M10	22,5 mm	1,029 kg/pcs.	10 pcs.	114759
LKS 19-114	114,00 mm	M8/M10	22,5 mm	0,505 kg/pcs.	8 pcs.	114760
LKS 19-125	125,00 mm	M8/M10	23 mm	0,563 kg/pcs.	6 pcs.	114761
LKS 19-133	133,00 mm	M8/M10	23 mm	0,571 kg/pcs.	6 pcs.	114762

Chilled Water Clamp LKS 19

Type	Pipe diameter (outside)	Thread connection	Insulation thickness	Weight	Quantity	Part number
LKS 19-139	139,00 mm	M12/M16/1/2"	23 mm	1,251 kg/ pcs.	6 pcs.	114763
LKS 19-160	160,00 mm	M12/M16/1/2"	23 mm	1,310 kg/ pcs.	6 pcs.	114764
LKS 19-168	168,00 mm	M12/M16/1/2"	23 mm	1,356 kg/ pcs.	6 pcs.	114765
LKS 19-180	180,00 mm	M12/M16/1/2"	25 mm	1,534 kg/ pcs.	6 pcs.	114766
LKS 19-200	200,00 mm	M12/M16/1/2"	25 mm	1,609 kg/ pcs.	6 pcs.	114767
LKS 19-219	219,00 mm	M12/M16/1/2"	23 mm	1,700 kg/ pcs.	6 pcs.	114768
LKS 19-225	225,00 mm	M12/M16/1/2"	25 mm	1,756 kg/ pcs.	6 pcs.	114769
LKS 19-250	250,00 mm	M12/M16/1/2"	25 mm	2,026 kg/ pcs.	2 pcs.	114770
LKS 19-273	273,00 mm	M16	23 mm	3,130 kg/ pcs.	2 pcs.	114771

Dimensions

Type	B1	b2	D	D2	DS	H	Mi1	Mi2	Ki1	Ki2
LKS 19-15	91,5 mm	50 mm	15 mm	15 mm	19 mm	76,5 mm	M8	M10	23,39 mm	32,03 mm
LKS 19-16	91,5 mm	50 mm	16 mm	16 mm	19 mm	76,5 mm	M8	M10	23,39 mm	32,03 mm
LKS 19-18	99 mm	50 mm	18 mm	18 mm	19,5 mm	84,5 mm	M8	M10	23,89 mm	32,53 mm
LKS 19-20	99 mm	50 mm	20 mm	20 mm	19,5 mm	84,5 mm	M8	M10	23,89 mm	32,53 mm
LKS 19-22	105 mm	50 mm	22 mm	22 mm	19,5 mm	90,5 mm	M8	M10	23,89 mm	32,53 mm
LKS 19-25	105 mm	50 mm	25 mm	25 mm	19,5 mm	90,5 mm	M8	M10	23,89 mm	32,53 mm
LKS 19-26	105 mm	50 mm	26 mm	26 mm	19,5 mm	90,5 mm	M8	M10	23,89 mm	32,53 mm
LKS 19-28	112 mm	50 mm	28 mm	28 mm	20 mm	96,5 mm	M8	M10	24,39 mm	33,03 mm
LKS 19-30	112 mm	50 mm	30 mm	30 mm	20 mm	96,5 mm	M8	M10	24,39 mm	33,03 mm
LKS 19-32	112 mm	50 mm	32 mm	32 mm	20 mm	96,5 mm	M8	M10	24,39 mm	33,03 mm
LKS 19-35	125 mm	50 mm	35 mm	35 mm	20 mm	106,5 mm	M8	M10	26 mm	35,17 mm

Chilled Water Clamp LKS 19

Type	B1	b2	D	D2	DS	H	Mi1	Mi2	Ki1	Ki2
LKS 19-38	125 mm	50 mm	38 mm	38 mm	21,5 mm	106,5 mm	M8	M10	27,5 mm	36,67 mm
LKS 19-40	134 mm	50 mm	40 mm	40 mm	21,5 mm	114,5 mm	M8	M10	27,5 mm	36,67 mm
LKS 19-42	134 mm	50 mm	42,1 mm	42,1 mm	21,5 mm	114,5 mm	M8	M10	27,5 mm	36,67 mm
LKS 19-44	134 mm	50 mm	44,6 mm	44,6 mm	21,5 mm	114,5 mm	M8	M10	27,5 mm	36,67 mm
LKS 19-48	141 mm	50 mm	48,5 mm	48,5 mm	21,5 mm	123,5 mm	M8	M10	27,5 mm	36,67 mm
LKS 19-50	141 mm	50 mm	50 mm	50 mm	21,5 mm	123,5 mm	M8	M10	27,5 mm	36,67 mm
LKS 19-54	146,5 mm	50 mm	54,2 mm	54,2 mm	21,5 mm	125,5 mm	M8	M10	27,5 mm	36,67 mm
LKS 19-57	146,5 mm	50 mm	57,3 mm	57,3 mm	22 mm	125,5 mm	M8	M10	28 mm	37,17 mm
LKS 19-60	151 mm	50 mm	60,6 mm	60,6 mm	22 mm	133,5 mm	M8	M10	28 mm	37,17 mm
LKS 19-64	151 mm	50 mm	64,3 mm	64,3 mm	22 mm	133,5 mm	M8	M10	28 mm	37,17 mm
LKS 19-70	159,5 mm	50 mm	70,4 mm	70,4 mm	22 mm	141,5 mm	M8	M10	28 mm	37,17 mm
LKS 19-76	173 mm	50 mm	76,5 mm	76,5 mm	22 mm	152,5 mm	M8	M10	29,11 mm	36,83 mm
LKS 19-80	173 mm	50 mm	80 mm	80 mm	22 mm	152,5 mm	M8	M10	29,11 mm	36,83 mm
LKS 19-89	186 mm	50 mm	89,5 mm	89,5 mm	22 mm	165,5 mm	M8	M10	29,11 mm	36,83 mm
LKS 19-102	203 mm	100 mm	102,3 mm	102,3 mm	22,5 mm	181,5 mm	M8	M10	29,61 mm	37,33 mm
LKS 19-108	203 mm	100 mm	108,8 mm	108,8 mm	22,5 mm	181,5 mm	M8	M10	29,61 mm	37,33 mm
LKS 19-110	203 mm	100 mm	110 mm	110 mm	22,5 mm	181,5 mm	M8	M10	29,61 mm	37,33 mm
LKS 19-114	215 mm	100 mm	115,1 mm	115,1 mm	22,5 mm	194,5 mm	M8	M10	29,61 mm	37,33 mm
LKS 19-125	229 mm	100 mm	125 mm	125 mm	23 mm	206,5 mm	M8	M10	29,95 mm	38,25 mm
LKS 19-133	229 mm	100 mm	134 mm	134 mm	23 mm	206,5 mm	M8	M10	29,64 mm	37,8 mm
LKS 19-139	265 mm	100 mm	140,8 mm	140,8 mm	23 mm	229 mm	M12	M16	26,64 mm	39,65 mm
LKS 19-160	276 mm	100 mm	160,3 mm	160,3 mm	23 mm	240 mm	M12	M16	26,64 mm	39,65 mm

Chilled Water Clamp LKS 19

Type	B1	b2	D	D2	DS	H	Mi1	Mi2	Ki1	Ki2
LKS 19-168	287 mm	100 mm	169,7 mm	169,7 mm	23 mm	251 mm	M12	M16	26,64 mm	39,65 mm
LKS 19-180	307 mm	100 mm	180 mm	180 mm	25 mm	271 mm	M12	M16	31,64 mm	44,65 mm
LKS 19-200	321 mm	100 mm	200 mm	200 mm	25 mm	285 mm	M12	M16	29,14 mm	42,15 mm
LKS 19-219	344 mm	100 mm	220,9 mm	220,9 mm	23 mm	308 mm	M12	M16	26,24 mm	39,25 mm
LKS 19-225	355 mm	100 mm	225 mm	225 mm	25 mm	319 mm	M12	M16	32,14 mm	45,15 mm
LKS 19-250	374 mm	100 mm	250 mm	250 mm	25 mm	338 mm	M12	M16	30,64 mm	43,65 mm
LKS 19-273	440 mm	100 mm	275,4 mm	275,4 mm	23 mm	347 mm	M16		29,69 mm	

Certification