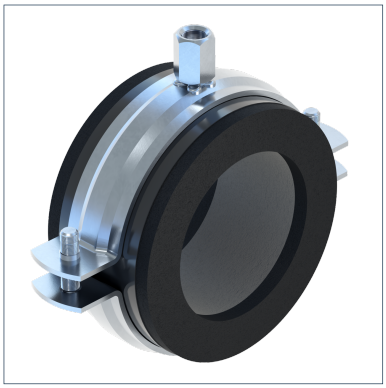
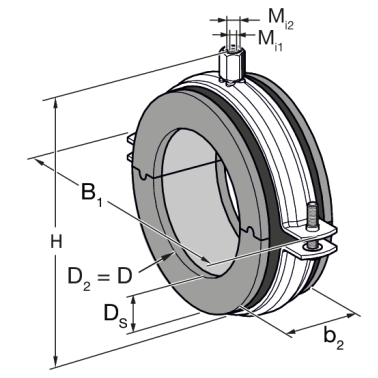
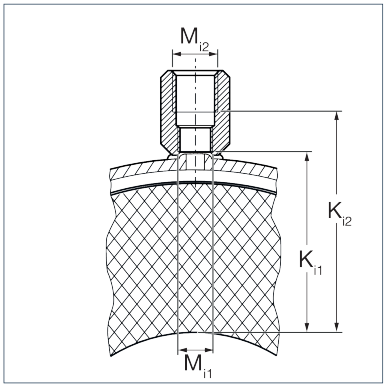
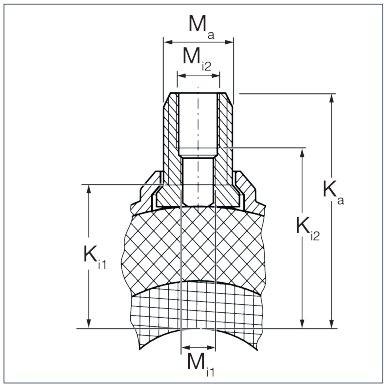
Chilled Water Clamp LKS 13









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 13	13	10 - 89	50
LKS 13	13	102 - 168	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

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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 13- 10	0.25 kN
LKS 13- 12	0.30 kN
LKS 13- 15	0.35 kN
LKS 13- 16	0.40 kN
LKS 13- 18	0.45 kN
LKS 13- 20	0.45 kN
LKS 13- 22	0.45 kN
LKS 13- 25	0.50 kN
LKS 13- 26	0.50 kN
LKS 13- 28	0.55 kN
LKS 13- 30	0.55 kN
LKS 13- 32	0.55 kN
LKS 13- 35	0.60 kN
LKS 13- 38	0.60 kN
LKS 13- 40	0.60 kN
LKS 13- 42	0.60 kN
LKS 13- 44	0.60 kN
LKS 13- 48	0.60 kN
LKS 13- 50	0.95 kN
LKS 13- 54	1.00 kN
LKS 13- 57	1.00 kN
LKS 13- 60	1.05 kN
LKS 13- 64	1.10 kN
LKS 13- 70	1.20 kN
LKS 13- 76	1.25 kN
LKS 13- 80	1.30 kN
LKS 13- 89	1.40 kN

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Type	-V{Z,perm.}
LKS 13-102	1.55 kN
LKS 13-108	1.65 kN
LKS 13-110	1.65 kN
LKS 13-114	1.70 kN
LKS 13-125	1.85 kN
LKS 13-133	1.95 kN
LKS 13-139	3.25 kN
LKS 13-160	3.65 kN
LKS 13-168	3.80 kN

Fire Performance

Class B2 according to DIN 4102

Types

Type	Pipe diameter (outside)	Thread connection	Insulation thickness	Weight	Quantity	Part number
LKS 13-10	10.00 mm	M8/M10	13 mm	0.058 kg/pcs.	48 pcs.	804043
LKS 13-12	12.00 mm	M8/M10	13 mm	0.064 kg/pcs.	48 pcs.	804044
LKS 13-15	15.00 mm	M8/M10	13 mm	0.072 kg/pcs.	48 pcs.	114693
LKS 13-16	16.00 mm	M8/M10	13 mm	0.070 kg/pcs.	48 pcs.	114694
LKS 13-18	18.00 mm	M8/M10	13 mm	0.072 kg/pcs.	48 pcs.	114695
LKS 13-20	20.00 mm	M8/M10	13 mm	0.080 kg/pcs.	36 pcs.	114696
LKS 13-22	22.00 mm	M8/M10	13 mm	0.087 kg/pcs.	36 pcs.	114697
LKS 13-25	25.00 mm	M8/M10	13 mm	0.095 kg/pcs.	30 pcs.	114698
LKS 13-26	26.00 mm	M8/M10	13 mm	0.078 kg/pcs.	30 pcs.	114699
LKS 13-28	28.00 mm	M8/M10	13.5 mm	0.096 kg/pcs.	30 pcs.	114700
LKS 13-30	30.00 mm	M8/M10	13.5 mm	0.096 kg/pcs.	30 pcs.	114701
LKS 13-32	32.00 mm	M8/M10	13.5 mm	0.092 kg/pcs.	30 pcs.	114702
LKS 13-35	35.00 mm	M8/M10	13.5 mm	0.103 kg/pcs.	30 pcs.	114703

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Type	Pipe diameter (outside)	Thread connection	Insulation thickness	Weight	Quantity	Part number
LKS 13-38	38.00 mm	M8/M10	14 mm	0.103 kg/pcs.	30 pcs.	114704
LKS 13-40	40.00 mm	M8/M10	14 mm	0.104 kg/pcs.	30 pcs.	114706
LKS 13-42	42.00 mm	M8/M10	14 mm	0.115 kg/pcs.	24 pcs.	114707
LKS 13-44	44.00 mm	M8/M10	14 mm	0.124 kg/pcs.	24 pcs.	114708
LKS 13-48	48.00 mm	M8/M10	14 mm	0.177 kg/pcs.	24 pcs.	114709
LKS 13-50	50.00 mm	M8/M10	14 mm	0.178 kg/pcs.	24 pcs.	114710
LKS 13-54	54.00 mm	M8/M10	14 mm	0.187 kg/pcs.	24 pcs.	114711
LKS 13-57	57.00 mm	M8/M10	15 mm	0.193 kg/pcs.	24 pcs.	114712
LKS 13-60	60.00 mm	M8/M10	15 mm	0.195 kg/pcs.	24 pcs.	114713
LKS 13-64	64.00 mm	M8/M10	15 mm	0.207 kg/pcs.	18 pcs.	114715
LKS 13-70	70.00 mm	M8/M10	15 mm	0.239 kg/pcs.	18 pcs.	114716
LKS 13-76	76.00 mm	M8/M10	15 mm	0.221 kg/pcs.	18 pcs.	114717
LKS 13-80	80.00 mm	M8/M10	15 mm	0.255 kg/pcs.	18 pcs.	114718
LKS 13-89	89.00 mm	M8/M10	15 mm	0.296 kg/pcs.	18 pcs.	114719
LKS 13-102	102.00 mm	M8/M10	15.5 mm	0.416 kg/pcs.	6 pcs.	114720
LKS 13-108	108.00 mm	M8/M10	15.5 mm	0.429 kg/pcs.	6 pcs.	114721
LKS 13-110	110.00 mm	M8/M10	15.5 mm	0.340 kg/pcs.	6 pcs.	114722
LKS 13-114	114.00 mm	M8/M10	15.5 mm	0.461 kg/pcs.	6 pcs.	114724
LKS 13-125	125.00 mm	M8/M10	16 mm	1.020 kg/pcs.	6 pcs.	114725
LKS 13-133	133.00 mm	M8/M10	16 mm	1.064 kg/pcs.	6 pcs.	114726
LKS 13-139	139.00 mm	M12/M16/1/2"	16 mm	1.083 kg/pcs.	6 pcs.	114727

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Type	Pipe diameter (outside)	Thread connection	Insulation thickness	Weight	Quantity	Part number
LKS 13-160	160.00 mm	M12/M16/1/2"	16 mm	1.189 kg/ pcs.	6 pcs.	114728
LKS 13-168	168.00 mm	M12/M16/1/2"	16 mm	1.265 kg/ pcs.	6 pcs.	114729

Dimensions

Type	B1	b2	D	D2	DS	H	Mi1	Mi2	Ki1	Ki2
LKS 13-10	68.5 mm	50 mm	10 mm	10 mm	13 mm	60.5 mm	M8	M10	17.39 mm	26.03 mm
LKS 13-12	76 mm	50 mm	12 mm	12 mm	13 mm	68.5 mm	M8	M10	17.39 mm	26.03 mm
LKS 13-15	76 mm	50 mm	15 mm	15 mm	13 mm	68.5 mm	M8	M10	17.39 mm	26.03 mm
LKS 13-16	76 mm	50 mm	16 mm	16 mm	13 mm	68.5 mm	M8	M10	17.39 mm	26.03 mm
LKS 13-18	76 mm	50 mm	18 mm	18 mm	13 mm	68.5 mm	M8	M10	17.39 mm	26.03 mm
LKS 13-20	91.5 mm	50 mm	20 mm	20 mm	13 mm	76.5 mm	M8	M10	17.39 mm	26.03 mm
LKS 13-22	91.5 mm	50 mm	22 mm	22 mm	13 mm	76.5 mm	M8	M10	17.39 mm	26.03 mm
LKS 13-25	91.5 mm	50 mm	25 mm	25 mm	13 mm	76.5 mm	M8	M10	17.39 mm	26.03 mm
LKS 13-26	91.5 mm	50 mm	26 mm	26 mm	13 mm	76.5 mm	M8	M10	17.39 mm	26.03 mm
LKS 13-28	99 mm	50 mm	28 mm	28 mm	13.5 mm	84.5 mm	M8	M10	17.89 mm	26.53 mm
LKS 13-30	99 mm	50 mm	30 mm	30 mm	13.5 mm	84.5 mm	M8	M10	17.89 mm	26.53 mm
LKS 13-32	99 mm	50 mm	32 mm	32 mm	13.5 mm	84.5 mm	M8	M10	17.89 mm	26.53 mm
LKS 13-35	105 mm	50 mm	35 mm	35 mm	13.5 mm	90.5 mm	M8	M10	17.89 mm	26.53 mm
LKS 13-38	105 mm	50 mm	38.1 mm	38.1 mm	14 mm	90.5 mm	M8	M10	18.39 mm	27.03 mm
LKS 13-40	112 mm	50 mm	40 mm	40 mm	14 mm	96.5 mm	M8	M10	18.39 mm	27.03 mm
LKS 13-42	112 mm	50 mm	42.1 mm	42.1 mm	14 mm	96.5 mm	M8	M10	18.39 mm	27.03 mm
LKS 13-44	112 mm	50 mm	44.6 mm	44.6 mm	14 mm	96.5 mm	M8	M10	18.39 mm	27.03 mm
LKS 13-48	125 mm	50 mm	48.5 mm	48.5 mm	14 mm	106.5 mm	M8	M10	20 mm	29.17 mm

Chilled Water Clamp LKS 13

Type	B1	b2	D	D2	DS	H	Mi1	Mi2	Ki1	Ki2
LKS 13-50	125 mm	50 mm	50 mm	50 mm	14 mm	106.5 mm	M8	M10	20 mm	29.17 mm
LKS 13-54	125 mm	50 mm	54.2 mm	54.2 mm	14 mm	106.5 mm	M8	M10	20 mm	29.17 mm
LKS 13-57	134 mm	50 mm	57.3 mm	57.3 mm	15 mm	114.5 mm	M8	M10	21 mm	30.17 mm
LKS 13-60	141 mm	50 mm	60.6 mm	60.6 mm	15 mm	123.5 mm	M8	M10	21 mm	30.17 mm
LKS 13-64	141 mm	50 mm	64.3 mm	64.3 mm	15 mm	123.5 mm	M8	M10	21 mm	30.17 mm
LKS 13-70	146.5 mm	50 mm	70.4 mm	70.4 mm	15 mm	125.5 mm	M8	M10	21 mm	30.17 mm
LKS 13-76	151 mm	50 mm	76.5 mm	76.5 mm	15 mm	133.5 mm	M8	M10	21 mm	30.17 mm
LKS 13-80	159.5 mm	50 mm	80 mm	80 mm	15 mm	141.5 mm	M8	M10	21 mm	30.17 mm
LKS 13-89	173 mm	50 mm	89.5 mm	89.5 mm	15 mm	152.5 mm	M8	M10	22.11 mm	29.83 mm
LKS 13-102	186 mm	100 mm	102.3 mm	102.3 mm	15.5 mm	165.5 mm	M8	M10	22.61 mm	30.33 mm
LKS 13-108	193 mm	100 mm	108.8 mm	108.8 mm	15.5 mm	171.5 mm	M8	M10	22.61 mm	30.33 mm
LKS 13-110	193 mm	100 mm	110 mm	110 mm	15.5 mm	171.5 mm	M8	M10	22.61 mm	30.33 mm
LKS 13-114	193 mm	100 mm	115.1 mm	115.1 mm	15.5 mm	171.5 mm	M8	M10	22.61 mm	30.33 mm
LKS 13-125	215 mm	100 mm	125 mm	125 mm	16 mm	194.5 mm	M8	M10	23.11 mm	30.83 mm
LKS 13-133	215 mm	100 mm	134 mm	134 mm	16 mm	194.5 mm	M8	M10	23.11 mm	30.83 mm
LKS 13-139	243 mm	100 mm	140.8 mm	140.8 mm	16 mm	208 mm	M12	M16	19.64 mm	32.65 mm
LKS 13-160	265 mm	100 mm	160.3 mm	160.3 mm	16 mm	229 mm	M12	M16	19.64 mm	32.65 mm
LKS 13-168	276 mm	100 mm	169.7 mm	169.7 mm	16 mm	240 mm	M12	M16	19.64 mm	32.65 mm

Certification