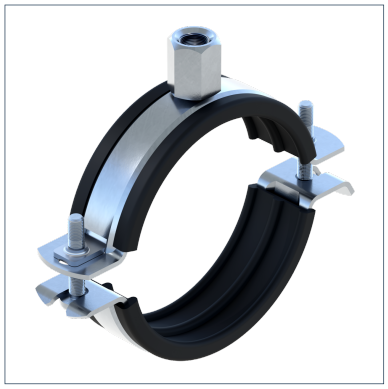
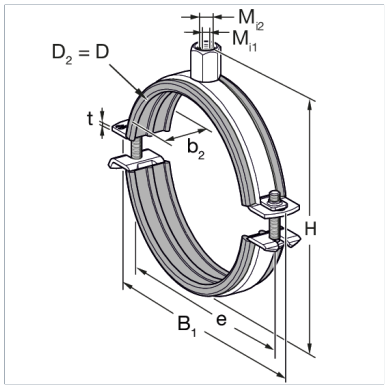
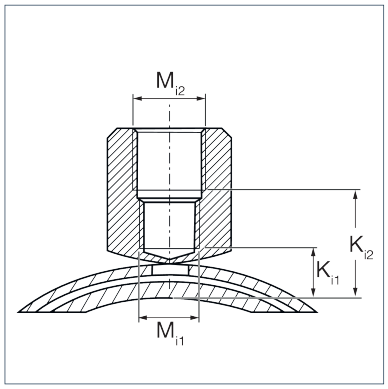
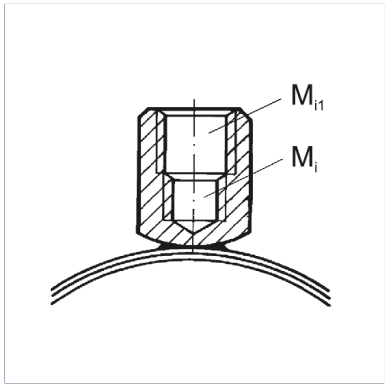
Pipe Clamp RATIO LS









General Information

Two-piece pipe clamp with double threaded nut (M8/M10) for installing pipe systems for M&E services. For soundproof ceiling, floor and wall installations. With time-saving quick-set clip. From 4' on, or when higher static loads occur, or under reversed bending stress, we recommend the use of a Stabil Pipe Clamp with lining.

Installation

After pressing together both parts of the clamp, the clamping bolt head must be located behind the angled profiles; then tighten clamping bolt (2 Nm).

Mechanical Properties

Insertion isolation	17 dB(A)

Material Properties

Halogen-free	0
UV-resistant	0

Material

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

Forces

Type	-V{Z,perm.}
RATIO LS 12 - 20	0.60 kN
RATIO LS 21 - 27	0.60 kN
RATIO LS 28 - 35	0.60 kN
RATIO LS 38 - 45	0.60 kN
RATIO LS 48 - 56	0.60 kN
RATIO LS 57 - 63	0.60 kN
RATIO LS 64 - 71	0.60 kN
RATIO LS 74 - 84	0.60 kN
RATIO LS 83 - 90	0.95 kN
RATIO LS 108 -114	1.15 kN

Note on loadings

The recommended load is calculated using specific statistical methods relating to break load and is designed to restrict deflection to 1.5 mm or 2 % of the maximum applicable clamping diameter.

Fire resistance

Type	Fire Resistance 30 min	Fire Resistance 60 min	Fire Resistance 90 min	Fire Resistance 120 min
RATIO LS 12 - 20	0.22 kN	0.1 kN	0.06 kN	0.03 kN
RATIO LS 21 - 27	0.22 kN	0.1 kN	0.06 kN	0.03 kN
RATIO LS 28 - 35	0.22 kN	0.1 kN	0.06 kN	0.03 kN
RATIO LS 38 - 45	0.22 kN	0.1 kN	0.06 kN	0.03 kN
RATIO LS 48 - 56	0.22 kN	0.1 kN	0.06 kN	0.03 kN
RATIO LS 57 - 63	0.22 kN	0.1 kN	0.06 kN	0.03 kN
RATIO LS 64 - 71	0.22 kN	0.1 kN	0.06 kN	0.03 kN
RATIO LS 74 - 84	0.22 kN	0.1 kN	0.06 kN	0.03 kN
RATIO LS 83 - 90	0.39 kN	0.21 kN	0.13 kN	0.08 kN
RATIO LS 108 -114	0.54 kN	0.27 kN	0.17 kN	0.12 kN

Types

Type	Size min.	Size max.	DN	Thread connection	Weight	Quantity	Part number
RATIO LS 12 - 20	12.00 mm	20.00 mm	DN 10 (3/8")	M8/M10	0.057 kg/ pcs.	100 pcs.	157418
RATIO LS 21 - 27	21.00 mm	27.00 mm	DN 20 (3/4")	M8/M10	0.064 kg/ pcs.	100 pcs.	157427
RATIO LS 28 - 35	28.00 mm	35.00 mm	DN 25 (1")	M8/M10	0.070 kg/ pcs.	100 pcs.	157436
RATIO LS 38 - 45	38.00 mm	45.00 mm	DN 32 (1 1/4")	M8/M10	0.089 kg/ pcs.	50 pcs.	157445
RATIO LS 48 - 56	48.00 mm	56.00 mm	DN 40 (1 1/2")	M8/M10	0.100 kg/ pcs.	50 pcs.	157454
RATIO LS 57 - 63	57.00 mm	63.00 mm	DN 50 (2")	M8/M10	0.110 kg/ pcs.	50 pcs.	157463
RATIO LS 64 - 71	64.00 mm	71.00 mm		M8/M10	0.124 kg/ pcs.	25 pcs.	157472

Pipe Clamp RATIO LS

Type	Size min.	Size max.	DN	Thread connection	Weight	Quantity	Part number
RATIO LS 74 - 84	74.00 mm	84.00 mm	DN 65 (2 1/2")	M8/M10	0.132 kg/ pcs.	25 pcs.	157481
RATIO LS 83 - 90	83.00 mm	90.00 mm	DN 80 (3")	M8/M10	0.169 kg/ pcs.	25 pcs.	157490
RATIO LS 108 -114	108.00 mm	114.00 mm	DN 100 (4")	M8/M10	0.271 kg/ pcs.	25 pcs.	157506

Dimensions

Type	B1	b2	D	D2	e	H	Mi1	Mi2	t	Ki1	Ki2
RATIO LS 12 - 20	58.6 mm	22.8 mm	18.2 mm	18.2 mm	40.3 mm	47.5 mm	M8	M10	1.5 mm	9.06 mm	15.14 mm
RATIO LS 21 - 27	65.3 mm	22.8 mm	26.2 mm	26.2 mm	44.5 mm	55.5 mm	M8	M10	1.5 mm	9.06 mm	15.14 mm
RATIO LS 28 - 35	76.8 mm	22.8 mm	36.2 mm	36.2 mm	56.5 mm	65.5 mm	M8	M10	1.5 mm	9.06 mm	15.14 mm
RATIO LS 38 - 45	88.1 mm	22.8 mm	46.2 mm	46.2 mm	68.5 mm	75.5 mm	M8	M10	1.5 mm	9.06 mm	15.14 mm
RATIO LS 48 - 56	99.5 mm	22.8 mm	58.2 mm	58.2 mm	78.9 mm	87.5 mm	M8	M10	1.5 mm	9.06 mm	15.14 mm
RATIO LS 57 - 63	108.2 mm	22.8 mm	66.2 mm	66.2 mm	88.1 mm	95.5 mm	M8	M10	1.5 mm	9.06 mm	15.14 mm
RATIO LS 64 - 71	116.8 mm	22.8 mm	74.2 mm	74.2 mm	97.1 mm	103.5 mm	M8	M10	1.5 mm	9.06 mm	15.14 mm
RATIO LS 74 - 84	124.5 mm	22.8 mm	83.2 mm	83.2 mm	103.2 mm	112.5 mm	M8	M10	1.5 mm	9.06 mm	15.14 mm
RATIO LS 83 - 90	136 mm	22.8 mm	94.2 mm	94.2 mm	119 mm	125.5 mm	M8	M10	2 mm	9.56 mm	15.64 mm
RATIO LS 108 -114	166 mm	30.5 mm	116.4 mm	116.4 mm	145.5 mm	151.5 mm	M8	M10	2 mm	10.89 mm	16.18 mm

Certification

This product has been awarded the RAL quality marks "pipe supports" and "fire-tested pipe supports" and is subject to continuous external monitoring according to RAL GZ-655.