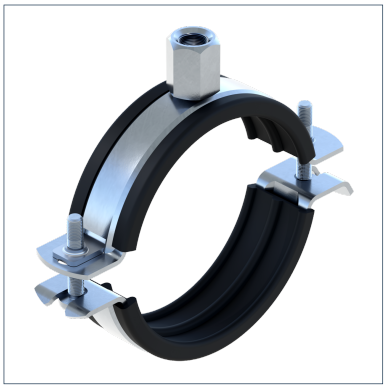
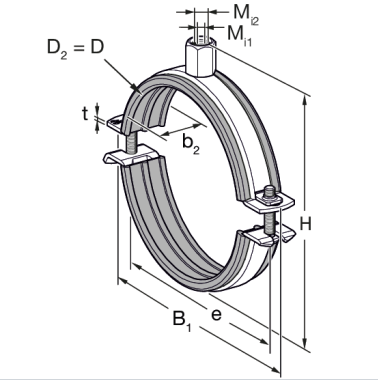
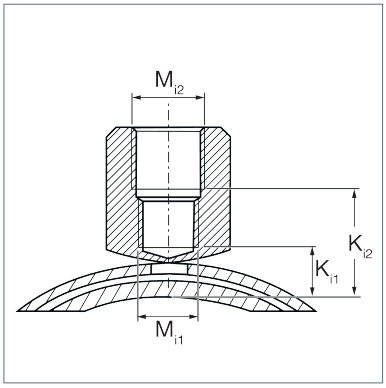
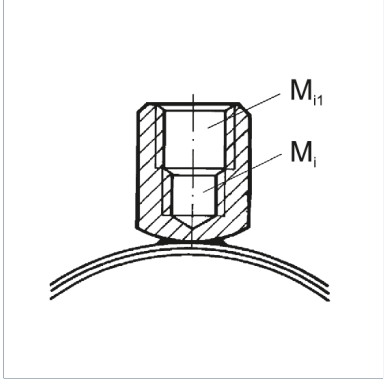
Pipe Clamp RATIO LS









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.

Documents

Pipe Clamp Ratio LS – RAL-GZ 655

Pipe Clamp Ratio LS – RAL-GZ 656