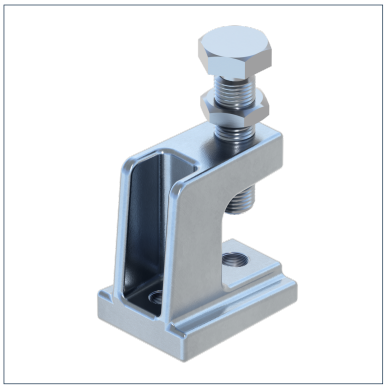
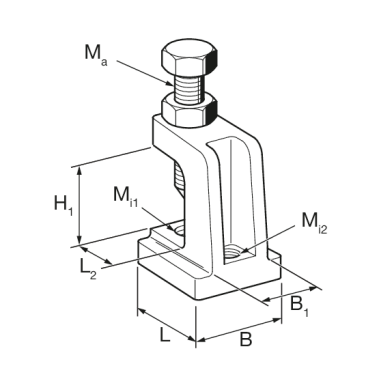
Beam Clamp TCS 1





General Information

Heavy-duty connection element which, in combination with grub screws (M8 up to M12), are suitable for mounting pipes, ducts and equipments to steel beams (I-, T-, U-and angle steel beams). The combination with a Universal Joint provides for vertically aligned attachment to inclined beams. Can serve as single mounting element for installing crossbars and for fixing cantilever structures. Due to their special base profile, Beam Clamps TCS 1 can also be slid along and retained in the opening of Sikla Channels of the 41 series.

Installation

Tighten the clamping bolt of the Beam Clamp first by hand, then tighten down with a spanner according to the mounting structures. The hardened point of the clamping bolt will penetrate the comparatively soft material of the beam, ensuring a solid and highly secure connection. Tighten the locking nut for securing the installation. For installation near a cutting edge of a channel, an additional Holding Bracket HK 41 has to be mounted.

Note: Respect relevant mounting instructions! For FM-construction use thread ≥ M10 only!

Material Properties

Halogen-free	0
UV-resistant	0

Material

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

Forces

Type	-V{X,perm.}	V{X,perm.}	V{Y,perm.}	-V{Z,perm.}
TCS 1 M10/M 8	3.11 kN	3.11 kN	1.83 kN	5.00 kN
TCS 1 M10/M10	3.11 kN	3.11 kN	1.83 kN	5.00 kN
TCS 1 M10/M12	3.11 kN	3.11 kN	1.83 kN	5.00 kN

Note on loadings

The nominal loads indicated apply to new Beam Clamps fixed to undamaged beam flanges only.

Types

Type	Max. flange thickness	Thread connection	Weight	Quantity	Part number
TCS 1 M10/M 8	26.00 mm	M8/M10	0.211 kg/pcs.	50 pcs.	116770
TCS 1 M10/M10	26.00 mm	M10/M10	0.212 kg/pcs.	50 pcs.	116150
TCS 1 M10/M12	26.00 mm	M10/M12	0.225 kg/pcs.	50 pcs.	167332

Beam Clamp TCS 1

Dimensions

Type	B	B1	H1	L	L2	Ma	Mi1	Mi2
TCS 1 M10/M 8	33 mm	21.5 mm	26.2 mm	44 mm	23 mm	M10	M10	M8
TCS 1 M10/M10	33 mm	21.5 mm	26.2 mm	44 mm	23 mm	M10	M10	M10
TCS 1 M10/M12	33 mm	21.5 mm	26.2 mm	44 mm	23 mm	M12	M10	M12

Certification

Approved and accepted by VdS and FM for use with stationary fire extinguishing systems. For different application fields see documents.

Documents

FM Approval - Sikla Beam Clamps TCS

VdS Approval - Sikla Beam Clamp TCS with Safety Strap - G4800040

VdS Approval - Sikla Beam Clamp TCS 1 - G4800039

VdS Approval - Sikla Beam Clamp TCS 1 M10/M10 - G4820023

VdS Approval - Sikla Beam Clamp TCS 1 M10/M12 - G4990027