

VSH FastFix

Flamcofix







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don't just buy
products,
buy solutions.

we are Aalberts integrated piping systems

Aalberts integrated piping systems engineers the most advanced integrated piping systems for the distribution and control of liquids and gases for key verticals, like industrial, utilities, commercial and residential. We offer fully integrated piping systems in valve, connection, fastening and piping technology. We work hand-in-hand with our customers to create the perfect integrated piping system, that meets their requirements. Our piping systems are easy to specify, install, control and maintain, saving important preparation and installation time. We meet the highest quality and industry standards needed in the selected verticals. We are the only business that truly offers its customers a single sourced and complete integrated piping solution, each and every time.

Don't just buy products, buy solutions.

our mission

With our integrated piping systems, supported by our unique Digital Design Service, we ensure that you will always get the best and easiest solution for the installation of an integrated piping system. From the moment that your plan is designed, you can get advice on complete and tailored solutions. With our Revit Plug-in you have digital access to the complete product offering within Aalberts integrated piping systems. This information is always accessible and up to date, allowing the design of an optimal and economically attractive installation that will meet all your demands. So whether the task is project conception, installation, or on-going maintenance, we are the company that truly delivers a complete system and service offering. Our know-how, our can-do attitude, and our relentless innovation come as standard. We will sweat the small stuff in our quest to find the perfect solutions, even if we have to invent them.

This is how we deliver excellence.

our way of working

We operate from various regions around the globe: America, EMEA and APAC. As we have multiple locations in many countries, we are always close to our customers. More than 3500 mission critical employees are persistent to offer the best integrated piping system. We work on our products, solutions and services every day. No matter how big the opportunity is, when we say we've got this, we won't let go until there is nothing left to learn. We improve ourselves by exchanging knowledge and experience to stay ahead of our competitors.

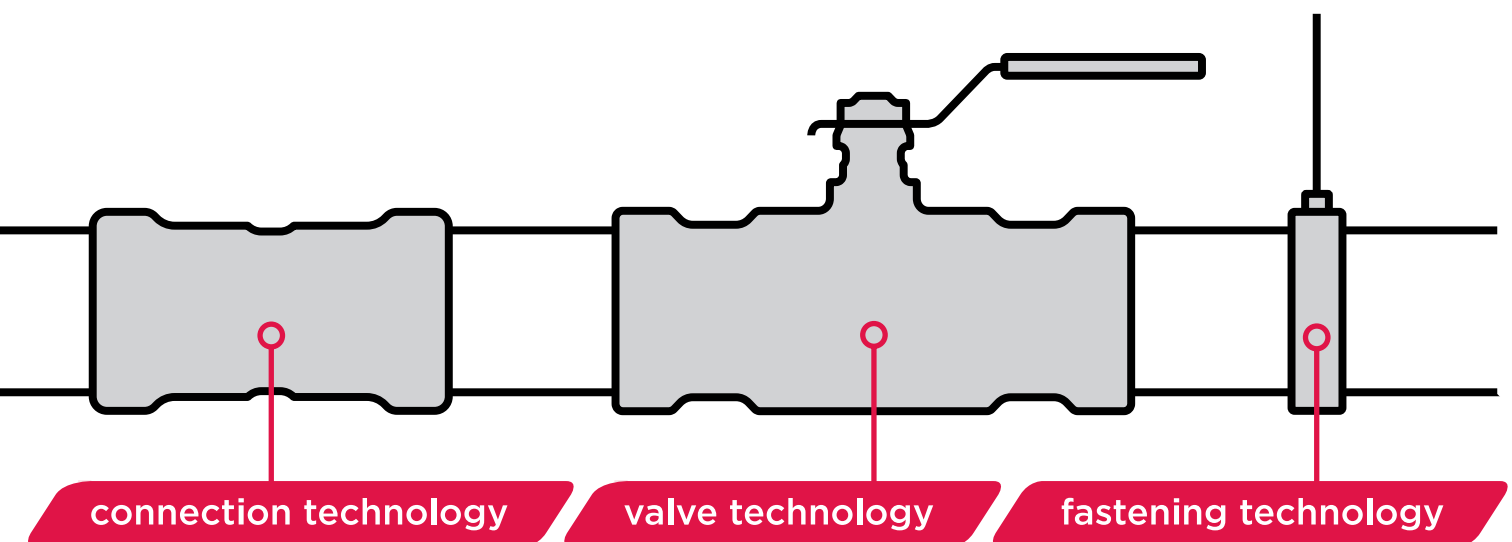
Good is never good enough.

With our sustainable spirit we contribute to circularity every single day. This belief is strongly linked to the way we do business. Rethink, reduce and recycle. We are entrepreneurial and take ownership in everything we do. We are convinced that self-development and diversity is essential.

The Aalberts way, winning with people.

the strength of Aalberts integrated piping systems

- the perfect solution for every project
- smart, fast and efficient installation
- valuable advice from the drawing board to delivery
- a very wide product range



our easy to connect product lines

Aalberts integrated piping systems is the combination of different companies with a strong legacy in their markets. The individual brands are well-known, and each represents a long history. Together they offer the best integrated piping system for now and in the future.

Connection technology

VSH. For over 90 years, VSH delivers fittings and piping systems worldwide. In the 1970s, it launched the popular VSH Super compression fitting, which is still a top seller today. This was followed by the VSH XPress press fitting system, enabling faster, more reliable connections.

Shurjoint. Founded in 1974, Shurjoint began with grooved couplings made from malleable iron. Today, it's a global leader in mechanical piping components, known for innovative design and quality manufacturing.

Valve technology

Pegler Valves. Pegler is a globally respected brand known for high-quality plumbing, heating, and engineering products. Since the 1890s, its reputation has been built on innovation, quality, and strong customer service. Today, Pegler remains a key player in the valve industry, continuously introducing new solutions like the Pegler ProFlow, which offers outstanding performance and precision across its range.

our product lines

We offer product ranges that:

- connect seamlessly
- are available in dimensions from 6 mm up to 104" (DN2600)
- can be used for thick-walled pipe and thin-walled metal or plastic tube
- have press, compression, groove and push connections
- can be expanded with valves and accessories
- are BIM ready

Kuterlite



material	brass
suitable for	carbon steel / stainless steel / copper / plastic
connection	compression
dimensions	6 - 54 mm (DN4 - DN50)

VSH Shurjoint



material	ductile iron / stainless steel
suitable for	thick-walled steel / stainless steel / HDPE
connection	groove
dimensions	½" - 104" (DN15 - DN2600)

VSH FastFix



material	mild carbon steel / stainless steel
finishes	zinc plated / hot dip galvanised
suitable for	all types of piping systems
connection	10 - 406 mm (¼" - 16")
options	with or without sound-absorbing insert & thermal insulation

Pegler Valves



material	brass / bronze / DZR brass / ductile iron / stainless steel
suitable for	carbon steel / stainless steel / copper / plastic
connection	threaded / press / push / flange
dimensions	½" - 12" (DN15 - DN300)

Pegler ProFlow



material	brass / ductile iron
suitable for	carbon steel / stainless steel / copper / plastic
connection	threaded / press / flange
dimensions	½" - 12" (DN15 - DN300)

VSH XPress



material	carbon steel / stainless steel / copper / CuNiFe
suitable for	carbon steel / stainless steel / copper / CuNiFe
connection	press / M-profile
dimensions	12 - 108 mm (DN10 - DN100)

VSH Tectite



material	copper / brass / stainless steel
suitable for	copper / carbon steel / stainless steel
connection	push
dimensions	10 - 54 mm (DN8 - DN50)

VSH PowerPress



material	carbon steel
suitable for	thick-walled steel
connection	press / DW-profile
dimensions	½" - 2" (DN15 - DN50)

VSH UltraPress



material	PPSU / brass
suitable for	plastic
connection	press / U & TH profile
dimensions	14 - 63 mm (DN10 - DN50)

Endex



material	copper / gunmetal / DZR brass
suitable for	copper
connection	solder
dimensions	6 - 54 mm

Yorkshire



material	copper / copper alloy
suitable for	copper
connection	integrated solder ring
dimensions	½" - 12" (DN15 - DN300)

Pegler Prestex



material	brass / DZR brass
suitable for	carbon steel / stainless steel / copper / plastic
connection	threaded / press / push / flange
dimensions	½" - 12" (DN15 - DN300)

Pegler Radiator Valves



Bulldog

Terrier

Belmont

Mistral

material	brass / gunmetal
suitable for	iron / copper / plastic
connection	compression / threaded / push-fit
dimensions	8, 10, 15, 20 mm, ½", ¾" & 1"





VSH FastFix

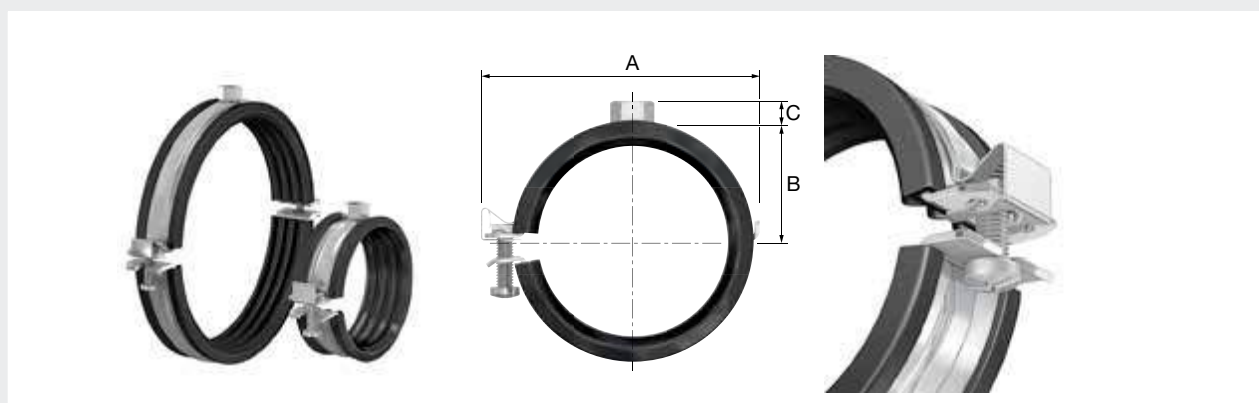
universal
clips

clips for all types of pipe

BSA M8 clips

BSA clips are rubber lined universal clips for mounting pipes to the wall or ceiling. Thanks to the unique locking system, the pipe can be pre-mounted without the use of tools. This means that the pipe's position can be adjusted afterwards if necessary, and the position of a bend or a T joint determined more accurately. At this stage the fixing bolt can be tightened, so that the pipe is held and installation completed.

- With handy and quick 'click-spring' closure.
- Makes pre-mounting without tools possible.
- Noise suppressing rubber strip: 19 dB(A) according to ISO 3822-1.
To achieve maximum sound suppression do not overload the fitting.
- Clip: Electrolytically zinc plated.
- Suitable for temperatures from -40°C up to +120°C.
- BSA clips are compatible with pipe sizes as per DIN 2448 and DIN EN 1057.
- The EPDM rubber inlay is halogen-free.



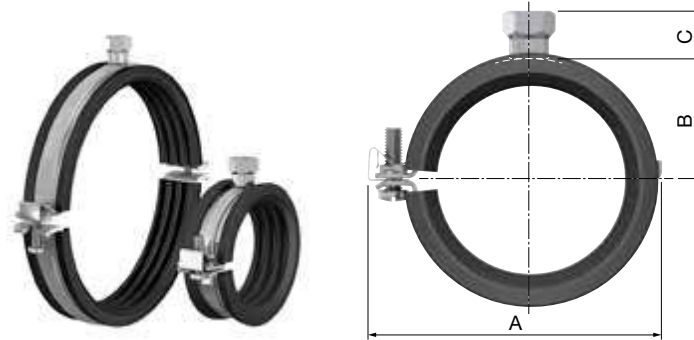
type	article number	pipe Ø		strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	Nom. ["]			A	B	C	
BSA M8 x 12 - 13.5	10-39200	12 - 13.5	¼	25 x 1.75	1300	45	14	8	100
BSA M8 x 14 - 16	10-39201	14 - 16	-	25 x 1.75	1300	47	15	8	100
BSA M8 x 17 - 19	10-39202	17 - 19	⅜	25 x 1.75	1300	50	17	8	100
BSA M8 x 20 - 24	10-39203	20 - 24	½	25 x 1.75	1300	54	19	8	100
BSA M8 x 25 - 28	10-39204	25 - 28	¾	25 x 1.75	1300	59	21	8	100
BSA M8 x 29 - 33	10-39205	29 - 33	-	25 x 1.75	1300	63	23	8	100
BSA M8 x 33 - 37	10-39206	33 - 37	1	25 x 1.75	1300	70	27	8	100
BSA M8 x 38 - 42	10-39207	38 - 42	1¼	25 x 1.75	1300	78	31	8	100
BSA M8 x 44.5 - 49	10-39208	44.5 - 49	1½	25 x 1.75	1300	83	34	8	50
BSA M8 x 50 - 54	10-39209	50 - 54	-	25 x 1.75	1300	90	37	8	50
BSA M8 x 56 - 60	10-39210	56 - 60	2	25 x 1.75	1300	96	40	8	50
BSA M8 x 62 - 64*	10-39550	62 - 64	-	25 x 2.75	2000	119	43	8	25
BSA M8 x 68 - 73*	10-39551	68 - 73	-	25 x 2.75	2000	126	46	8	25
BSA M8 x 75 - 80*	10-39552	75 - 80	2½	25 x 2.75	2000	133	50	8	25
BSA M8 x 82 - 86*	10-39553	82 - 86	-	25 x 2.75	2000	139	53	8	25
BSA M8 x 89 - 91*	10-39554	89 - 91	3	25 x 2.75	2000	145	56	8	25
BSA M8 x 95 - 102*	10-39556	95 - 102	3½	25 x 2.75	2000	157	62	8	25
BSA M8 x 108 - 116*	10-39558	108 - 116	4	25 x 2.75	2000	168	67	8	25

* Closing system provided with 2 closing screws.



BSA M8/10 clips

- Similar to the BSA M8 clips, but with a combined M8/10 connection.
- The EPDM rubber inlay is halogen-free.



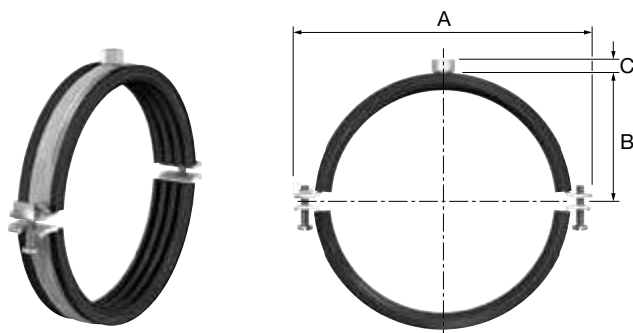
type	article number	Ø pipe		strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]			A	B	C	
BSA M8/10 x 12 - 13.5	10-39300	12 - 13.5	¼	25 x 1.75	1300	45	14	16	100
BSA M8/10 x 14 - 16	10-39301	14 - 16	-	25 x 1.75	1300	47	15	16	100
BSA M8/10 x 17 - 19	10-39302	17 - 19	⅜	25 x 1.75	1300	50	17	16	100
BSA M8/10 x 20 - 24	10-39303	20 - 24	½	25 x 1.75	1300	54	19	16	100
BSA M8/10 x 25 - 28	10-39304	25 - 28	¾	25 x 1.75	1300	59	21	16	100
BSA M8/10 x 29 - 33	10-39305	29 - 33	-	25 x 1.75	1300	63	23	16	100
BSA M8/10 x 33 - 37	10-39306	33 - 37	1	25 x 1.75	1300	70	27	16	100
BSA M8/10 x 38 - 42	10-39307	38 - 42	1¼	25 x 1.75	1300	78	31	16	100
BSA M8/10 x 44.5 - 49	10-39308	44.5 - 49	1½	25 x 1.75	1300	83	34	16	50
BSA M8/10 x 50 - 54	10-39309	50 - 54	-	25 x 1.75	1300	90	37	16	50
BSA M8/10 x 56 - 60	10-39310	56 - 60	2	25 x 1.75	1300	96	40	16	50
BSA M8/10 x 62 - 64*	10-39311	62 - 64	-	25 x 2.75	2000	119	43	16	25
BSA M8/10 x 68 - 73*	10-39312	67 - 73	-	25 x 2.75	2000	126	46	16	25
BSA M8/10 x 75 - 80*	10-39313	75 - 80	2½	25 x 2.75	2000	133	50	16	25
BSA M8/10 x 82 - 86*	10-39314	82 - 86	-	25 x 2.75	2000	139	53	16	25
BSA M8/10 x 89 - 91*	10-39315	89 - 91	3	25 x 2.75	2000	145	56	16	25
BSA M8/10 x 95 - 102*	10-39317	95 - 102	3½	25 x 2.75	2000	157	62	16	25
BSA M8/10 x 108 - 116*	10-39318	108 - 116	4	25 x 2.75	2000	168	67	16	25
BSA M8/10 x 121 - 127*	10-39320	121 - 127	-	25 x 2.75	2000	184	71	16	25
BSA M8/10 x 133 - 141*	10-39321	133 - 141	5	25 x 2.75	2000	195	78	16	25
BSA M8/10 x 159 - 162*	10-39323	159 - 162	-	25 x 2.75	2000	220	93	16	25
BSA M8/10 x 165 - 168*	10-39324	165 - 168	6	25 x 2.75	2000	227	97	16	25

* Closing system provided with 2 closing screws.



BSA M10 clips

- Similar to the BSA M8 clips, but with a M10 connection.
- The EPDM rubber inlay is halogen-free.



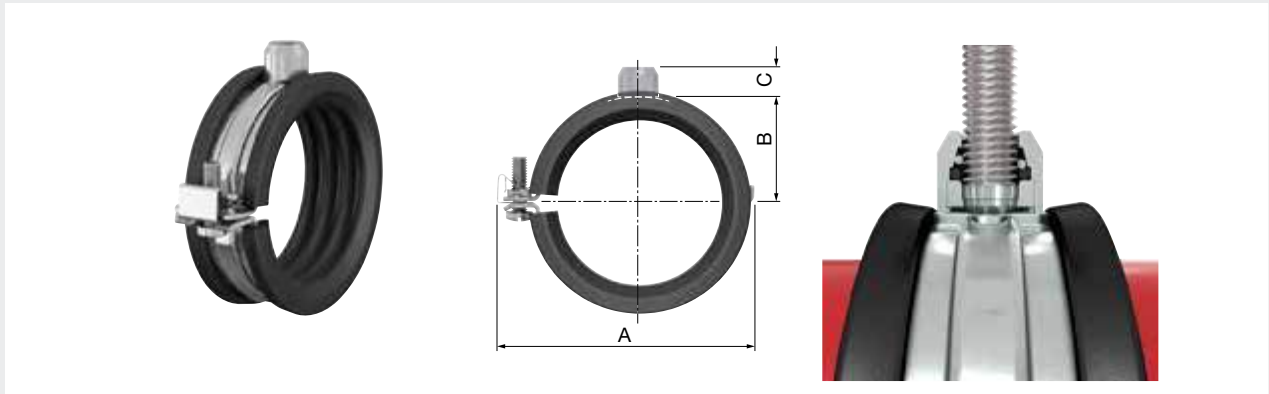
type	article number	Ø pipe		strip dimensi- ons [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]			A	B	C	
BSA M10 x 121 - 127	10-39559	121 - 127	-	25 x 2.75	2000	184	71	10	25
BSA M10 x 133 - 141	10-39560	133 - 141	5	25 x 2.75	2000	195	78	10	25



BSA-C M8 clips

With M8 'click' connection for quick mounting.

- Deburring of threaded rod is not necessary.
- Reduced installation time.
- The correct position can be set by turning the clip.
- Clip: Electrolytically zinc plated.
- Suitable for thread in accordance with ISO 965-2.
- Safety margin for minimum breaking load (V) = 3.
- To obtain the maximum noise reduction, the insert of the bracket must not be overloaded.
- The EPDM rubber inlay is halogen-free.

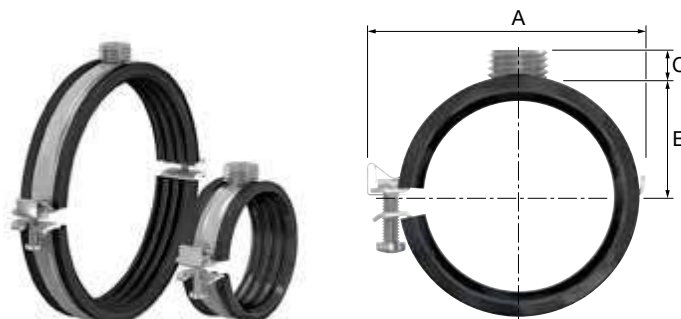


type	article number	Ø pipe			strip dimensi- ons [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]		nom. ["]			A	B	C	
BSA-C M8 x 12 - 13.5	10-39170	12	- 13.5	1/4	25 x 1.75	600	45	14	12	100
BSA-C M8 x 14 - 16	10-39171	14	- 16	-	25 x 1.75	600	47	15	12	100
BSA-C M8 x 17 - 19	10-39172	17	- 19	3/8	25 x 1.75	600	50	17	12	100
BSA-C M8 x 20 - 24	10-39173	20	- 24	1/2	25 x 1.75	600	54	19	12	100
BSA-C M8 x 25 - 28	10-39174	25	- 28	3/4	25 x 1.75	600	59	21	12	100
BSA-C M8 x 29 - 33	10-39175	29	- 33	-	25 x 1.75	600	63	23	12	100
BSA-C M8 x 33 - 37	10-39176	33	- 37	1	25 x 1.75	600	70	27	12	100
BSA-C M8 x 38 - 42	10-39177	38	- 42	1 1/4	25 x 1.75	600	78	31	12	100
BSA-C M8 x 44.5 - 49	10-39178	44.5	- 49	1 1/2	25 x 1.75	600	83	34	12	50
BSA-C M8 x 50 - 54	10-39179	50	- 54	-	25 x 1.75	600	90	37	12	50
BSA-C M8 x 56 - 60	10-39180	56	- 60	2	25 x 1.75	600	96	40	12	50



BSA ½ M/M10 clips

- Similar to the BSA M8 clips, but with a combined G½" M (BSP) / M10 connection.
- The EPDM rubber inlay is halogen-free.



type	article number	Ø pipe		strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]			A	B	C	
BSA ½ M/M10 x 12 - 13,5	10-51900	12 - 13,5	¼	25 x 1.75	1300	45	14	10	50
BSA ½ M/M10 x 14 - 16	10-51901	14 - 16	-	25 x 1.75	1300	47	15	10	50
BSA ½ M/M10 x 17 - 19	10-51902	17 - 19	⅜	25 x 1.75	1300	50	17	10	50
BSA ½ M/M10 x 20 - 24	10-51903	20 - 24	½	25 x 1.75	1300	54	19	10	50
BSA ½ M/M10 x 25 - 28	10-51904	25 - 28	¾	25 x 1.75	1300	59	21	10	50
BSA ½ M/M10 x 29 - 33	10-51905	29 - 33	-	25 x 1.75	1300	63	23	10	50
BSA ½ M/M10 x 33 - 37	10-51906	33 - 37	1	25 x 1.75	1300	70	27	10	50
BSA ½ M/M10 x 38 - 42	10-51907	38 - 42	1¼	25 x 1.75	1300	78	31	10	50
BSA ½ M/M10 x 44,5 - 49	10-51908	44,5 - 49	1½	25 x 1.75	1300	83	34	10	50
BSA ½ M/M10 x 50 - 54	10-51909	50 - 54	-	25 x 1.75	1300	90	37	10	50
BSA ½ M/M10 x 56 - 60	10-51910	56 - 60	2	25 x 1.75	1300	96	40	10	50
BSA ½ M/M10 x 62 - 64*	10-51920	62 - 64	-	25 x 2.75	2000	119	43	10	25
BSA ½ M/M10 x 68 - 73*	10-51921	67 - 73	-	25 x 2.75	2000	126	46	10	25
BSA ½ M/M10 x 75 - 80*	10-51922	75 - 80	2½	25 x 2.75	2000	133	50	10	25
BSA ½ M/M10 x 82 - 86*	10-51923	82 - 86	-	25 x 2.75	2000	139	53	10	25
BSA ½ M/M10 x 89 - 91*	10-51924	89 - 91	3	25 x 2.75	2000	145	56	10	25
BSA ½ M/M10 x 95 - 102*	10-51926	95 - 102	3½	25 x 2.75	2000	157	62	10	25
BSA ½ M/M10 x 108 - 116*	10-51927	108 - 116	4	25 x 2.75	2000	168	67	10	25
BSA ½ M/M10 x 121 - 127*	10-51929	121 - 127	-	25 x 2.75	2000	184	71	10	25
BSA ½ M/M10 x 133 - 141*	10-51930	133 - 141	5	25 x 2.75	2000	195	78	10	25
BSA ½ M/M10 x 159 - 162*	10-51932	159 - 162	-	25 x 2.75	2000	220	93	10	25
BSA ½ M/M10 x 165 - 168*	10-51933	165 - 168	6	25 x 2.75	2000	227	97	10	25

* Closing system provided with 2 closing screws.

** With a combined G½" M (BSP) / M10 connection + G½" F (BSP) sleeve.



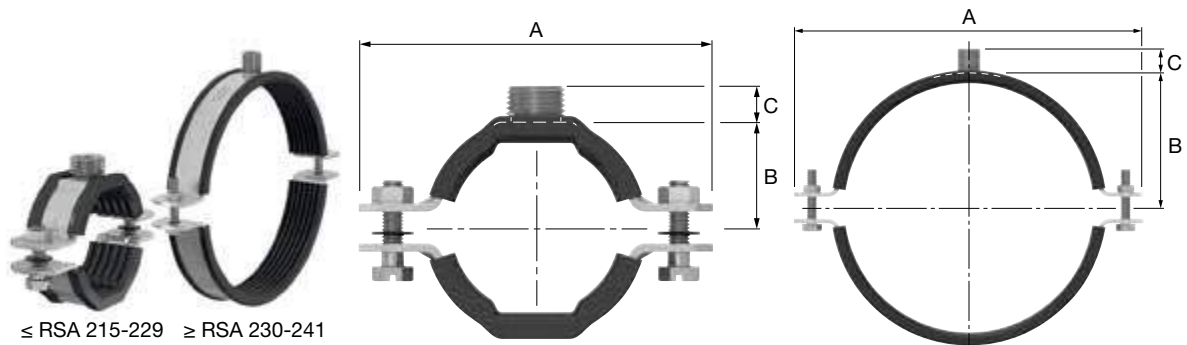
RSA clips

RSA clips are rubber lined universal clips designed for heavy duty applications. The thickness of the strip material and the reinforcement ribs make the most rigid assemblies possible.

- With noise suppressing EPDM rubber strip.
- Suitable for temperatures from -40°C up to +120°C.
- Complete and comprehensive range.
- A special combinut with outer and inner thread makes a broad range of applications possible in combination with threaded rods and pipes.
- Clip: Electrolytically zinc plated.
- Execution:
 - Special welded-on nuts on the clip flanges allow high torque on the fixing bolts and permit heavy loads on the clip whilst easing installation.
 - Bolts with retaining ring.
 - The head of the bolt has a slot, a Pozidriv 2 (PZ2) and hexagon for fast installation with a flat or cross-head screwdriver or a spanner.

RSA G $\frac{3}{4}$ " M (BSP) / M12/16:

- Equipped with two hexagon bolts.
- With halogen-free inlay.

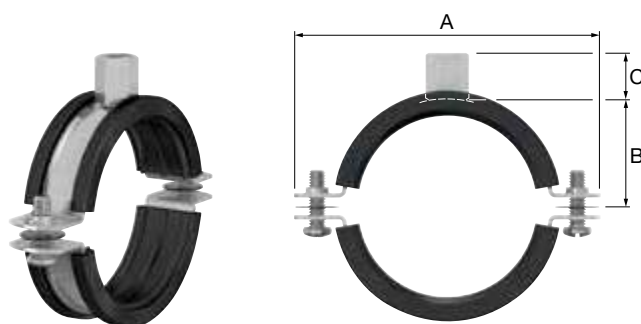


type	article number	Ø pipe		strip dimensions [mm]	connection	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
RSA $\frac{3}{4}$" M/M12/16 x 230 - 241	10-54327	230 - 241.9	-	50 x 5.0	G $\frac{3}{4}$ " M/M12/16	9000	330	133.0	26	1
RSA $\frac{3}{4}$" M/M12/16 x 242 - 260	10-54328	242 - 260.9	-	50 x 5.0	G $\frac{3}{4}$ " M/M12/16	9000	348	142.0	26	1
RSA $\frac{3}{4}$" M/M12/16 x 261 - 273	10-54329	261 - 273.9	10	50 x 5.0	G $\frac{3}{4}$ " M/M12/16	9000	361	148.0	26	1
RSA $\frac{3}{4}$" M/M12/16 x 311 - 324	10-54332	311 - 324.9	12	50 x 5.0	G $\frac{3}{4}$ " M/M12/16	9000	412	174.0	26	1
RSA $\frac{3}{4}$" M/M12/16 x 344 - 356	10-54334	344 - 356.9	14	50 x 5.0	G $\frac{3}{4}$ " M/M12/16	9000	444	190.0	26	1
RSA $\frac{3}{4}$" M/M12/16 x 394 - 406	10-54337	394 - 406.9	16	50 x 5.0	G $\frac{3}{4}$ " M/M12/16	9000	494	215.0	26	1

BSI clips

BSI clips are rubber lined universal clips for mounting pipes to the wall or ceiling.

- Fitted with two bolts with anti-loss ring.
- Bolt with slot and cross head.
- Reinforcement grooves ensure that BSI clips maintain their shape.
- Noise suppressing rubber lining (EPDM): 17 dB(A) according to ISO 3822-1.
To achieve maximum sound suppression do not overload the fitting.
- Safety margin for minimal breaking load (V) = 3.
- Clip: Electrolytically zinc plated.
- Suitable for temperatures from -40°C up to +120°C.
- BSI clips are compatible with pipe sizes according to DIN 2448 and DIN EN 1057.
- With halogen-free inlay.
- Equipped with Philips / slotted head screws.

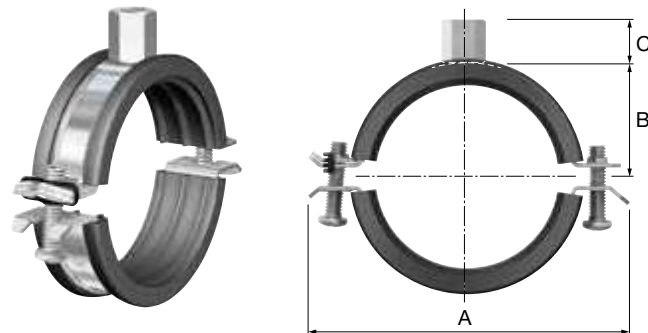


type	article number	Ø pipe		connection	strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
BSI M8/10 x 8 - 10	10-39023	8 - 10	⅛	M8/10	20 x 1.5	1000	53	13	16	50
BSI M8/10 x 12 - 14	10-39000	12 - 14	¼	M8/10	20 x 1.5	1000	58	15	16	50
BSI M8/10 x 15 - 19	10-39001	15 - 19	⅜	M8/10	20 x 1.5	1000	62	18	16	50
BSI M8/10 x 20 - 25	10-39002	20 - 25	½	M8/10	20 x 1.5	1000	69	21	16	50
BSI M8/10 x 26 - 30	10-39003	26 - 30	¾	M8/10	20 x 1.5	1000	74	23	16	50
BSI M8/10 x 32 - 36	10-39004	32 - 36	1	M8/10	20 x 1.5	1000	81	26	16	50
BSI M8/10 x 38 - 43	10-39005	38 - 43	1¼	M8/10	20 x 1.5	1000	87	30	16	50
BSI M8/10 x 44 - 49	10-39006	44 - 49	1½	M8/10	20 x 1.5	1000	94	33	16	50
BSI M8/10 x 50 - 55	10-39007	50 - 55	-	M8/10	20 x 1.5	1000	103	36	16	50
BSI M8/10 x 56 - 61	10-39008	56 - 61	2	M8/10	20 x 1.5	1000	106	39	16	50
BSI M8/10 x 62 - 67	10-39009	62 - 67	-	M8/10	20 x 2.0	1300	113	42	16	50
BSI M8/10 x 68 - 73	10-39010	68 - 73	-	M8/10	20 x 2.0	1300	123	45	16	50
BSI M8/10 x 75 - 80	10-39011	75 - 80	2½	M8/10	20 x 2.0	1300	128	48	16	50
BSI M8/10 x 82 - 86	10-39012	82 - 86	-	M8/10	20 x 2.0	1300	134	51	16	50
BSI M8/10 x 87 - 92	10-39013	87 - 92	3	M8/10	20 x 2.0	1300	141	54	16	50
BSI M8/10 x 95 - 102	10-39014	95 - 102	3½	M8/10	20 x 2.5	2150	158	58	16	50
BSI M8/10 x 108 - 116	10-39015	108 - 116	4	M8/10	20 x 2.5	2150	170	65	16	25
BSI M8/10 x 121 - 127	10-39016	121 - 127	-	M8/10	20 x 2.5	2150	185	70	16	25
BSI M8/10 x 131 - 141	10-39017	131 - 141	5	M8/10	20 x 2.5	2150	195	77	16	25
BSI M8/10 x 159 - 163	10-39018	159 - 163	-	M8/10	20 x 2.5	2150	215	88	16	25
BSI M8/10 x 165 - 169	10-39019	165 - 169	6	M8/10	20 x 2.5	2150	226	91	16	25
BSI M10/12 x 165 - 169	10-39039	165 - 169	6	M10/12	20 x 2.5	2150	226	91	18	25
BSI M8/10 x 192 - 202	10-39020	192 - 202	-	M8/10	20 x 3.0	3000	265	107	16	25
BSI M8/10 x 210 - 220	10-39022	210 - 220	8	M8/10	20 x 3.0	3000	274	117	16	25

BSM clips

BSM clips are rubber lined universal clips for vertical and horizontal mounting.

- Large clamping capacity (2 bolts).
- Quick closing facility and turnable underneath the pipe.
- Inlay with better gliding properties.
- Screws are secured for turning out (vibration/shaking).
- Noise suppression: 17 dB(A) according to ISO 3822-1.
To achieve maximum sound suppression do not overload the fitting.
- Clip: Electrolytically zinc plated.
- Connection: M8/10.
- Suitable for temperatures from -40°C up to +120°C.
- Independently tested and certified according to the high safety and quality standards of the RAL Quality Assurance Association for pipe supports (RAL Gütegemeinschaft Rohrbefestigung).
- With halogen-free inlay.
- Equipped with Philips / slotted head screws.



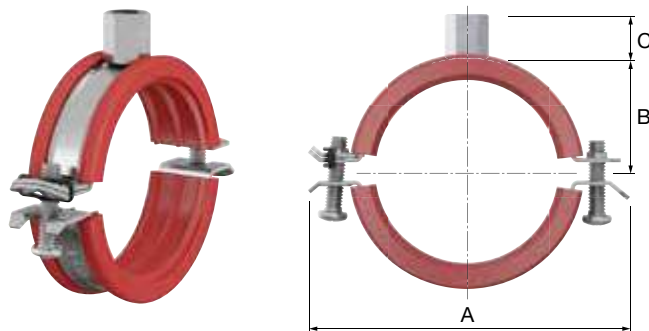
type	article number	Ø pipe		max. working load [N]	strip dimensions [mm]	dimensions [mm]			
		Ext. dia [mm]	nom. ["]			A	B	C	
BSM M8/10 x 12 - 14	10-38170	12 - 14	¼	600	1.5 x 20	60	15.0	14	50
BSM M8/10 x 15 - 18	10-38171	15 - 18	⅜	750	1.5 x 20	64	17.0	14	50
BSM M8/10 x 19 - 22	10-38172	19 - 22	½	750	1.5 x 20	68	19.0	14	50
BSM M8/10 x 23 - 26	10-38173	23 - 26	-	750	1.5 x 20	72	21.0	14	50
BSM M8/10 x 27 - 30	10-38174	27 - 30	¾	750	1.5 x 20	76	23.0	14	50
BSM M8/10 x 32 - 35	10-38175	32 - 35	1	750	1.5 x 20	81	25.5	14	50
BSM M8/10 x 36 - 39	10-38176	36 - 39	-	750	1.5 x 20	85	27.5	14	50
BSM M8/10 x 40 - 44.5	10-38177	40 - 44.5	1¼	750	1.5 x 20	90	30.0	14	50
BSM M8/10 x 48 - 52	10-38178	48 - 52	1½	750	1.5 x 20	98	34.0	14	50
BSM M8/10 x 54 - 58	10-38179	54 - 58	1¾	750	1.5 x 20	104	37.0	14	50
BSM M8/10 x 58 - 61	10-38180	58 - 61	2	850	1.5 x 20	107	38.5	14	50
BSM M8/10 x 63 - 67	10-38181	63 - 67	-	850	2.0 x 20	113	41.5	14	50
BSM M8/10 x 75 - 80	10-38183	75 - 80	2½	850	2.0 x 20	126	48.0	14	50
BSM M8/10 x 88 - 92	10-38185	88 - 92	3	850	2.0 x 20	138	54.0	14	50
BSM M8/10 x 108 - 116	10-38187	108 - 116	4	1500	2.5 x 20	162	66.0	14	25
BSM M8/10 x 121 - 127	10-38188	121 - 127	-	1500	2.5 x 20	173	71.5	14	25



BSM-S clips

BSM-S clips are silicon rubber lined universal clips for use in high temperature applications and usable for vertical and horizontal mounting.

- Suitable for temperatures from -60°C up to +250°C.
- Large clamping capacity (2 bolts).
- Quick closing facility and turnable underneath the pipe.
- Inlay with better gliding properties.
- Screws are secured for turning out (vibration/shaking).
- Noise suppression: 17 dB(A) according to ISO 3822-1.
To achieve maximum sound suppression do not overload the fitting.
- Clip: Electrolytically zinc plated.
- Connection: M8/10.
- Equipped with Philips / slotted head screws.

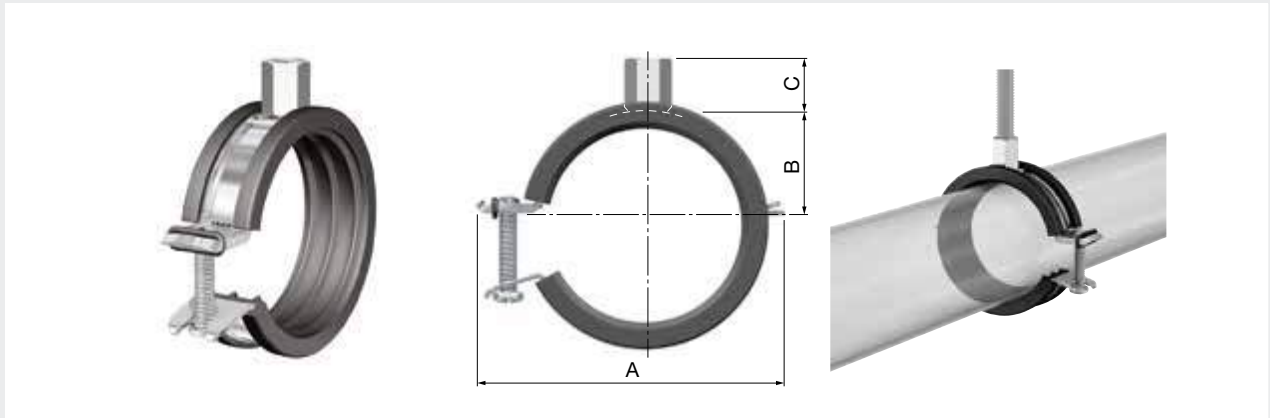


type	article number	Ø pipe		strip dimensi- ons [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]			A	B	C	
BSM-S M8/10 x 12 - 14	10-38300	12 - 14	¼	1.5 x 20	600	60	15.0	14	50
BSM-S M8/10 x 15 - 18	10-38301	15 - 18	⅜	1.5 x 20	750	64	17.0	14	50
BSM-S M8/10 x 19 - 22	10-38302	19 - 22	½	1.5 x 20	750	68	19.0	14	50
BSM-S M8/10 x 23 - 26	10-38303	23 - 26	-	1.5 x 20	750	72	21.0	14	50
BSM-S M8/10 x 27 - 30	10-38304	27 - 30	¾	1.5 x 20	750	76	23.0	14	50
BSM-S M8/10 x 32 - 35	10-38305	32 - 35	1	1.5 x 20	750	81	25.5	14	50
BSM-S M8/10 x 36 - 39	10-38306	36 - 39	-	1.5 x 20	750	85	27.5	14	50
BSM-S M8/10 x 40 - 44,5	10-38307	40 - 44,5	1¼	1.5 x 20	750	90	30.0	14	50
BSM-S M8/10 x 48 - 52	10-38308	48 - 52	1½	1.5 x 20	750	98	34.0	14	50
BSM-S M8/10 x 54 - 58	10-38309	54 - 58	1¾	1.5 x 20	750	104	37.0	14	50
BSM-S M8/10 x 58 - 61	10-38310	58 - 61	2	1.5 x 20	850	107	38.5	14	50
BSM-S M8/10 x 63 - 67	10-38311	63 - 67	-	2.0 x 20	850	113	41.5	14	50
BSM-S M8/10 x 75 - 80	10-38313	75 - 80	2½	2.0 x 20	850	126	48.0	14	50
BSM-S M8/10 x 88 - 92	10-38315	88 - 92	3	2.0 x 20	850	138	54.0	14	50
BSM-S M8/10 x 108 - 116	10-38317	108 - 116	4	2.5 x 20	1500	162	66.0	14	25
BSM-S M8/10 x 121 - 127	10-38318	121 - 127	-	2.5 x 20	1500	173	71.5	14	25

BSH clips

BSH clips are rubber lined universal clips for mounting pipes to the wall or ceiling.

- Clip with handy, quick closing mechanism.
- Close fitting possible.
- Bolt with slot and cross head.
- Suitable for high loads and temperatures.
- Noise suppressing rubber lining: 15 dB(A) according to ISO 3822-1.
To achieve maximum sound suppression do not overload the fitting.
- Safety margin for minimal breaking load (V) = 3.
- Clip: electrolytically zinc plated.
- With halogen-free inlay.
- BSH clips are compatible with pipe sizes as per DIN 2448 and DIN EN 1057.
- Equipped with Philips / slotted head screws.



type	article number	Ø pipe		connec- tion	strip dimensi- ons [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
BSH M8/10 12 - 14	10-38360	12 - 14	1/4	M8/10	20 x 1.5	1000	50	7.0	15	50
BSH M8/10 15 - 18	10-38361	15 - 18	3/8	M8/10	20 x 1.5	1000	54	9.0	15	50
BSH M8/10 19 - 22	10-38362	19 - 22	1/2	M8/10	20 x 1.5	1000	58	11.0	15	50
BSH M8/10 23 - 26	10-38363	23 - 26	-	M8/10	20 x 1.5	1000	62	13.0	15	50
BSH M8/10 27 - 30	10-38364	27 - 30	3/4	M8/10	20 x 1.5	1000	66	15.0	15	50
BSH M8/10 32 - 35	10-38365	32 - 35	1	M8/10	20 x 1.5	1000	71	17.5	15	50
BSH M8/10 36 - 39	10-38366	36 - 39	-	M8/10	20 x 1.5	1000	75	19.5	15	50
BSH M8/10 40 - 44	10-38367	40 - 44	1 1/4	M8/10	20 x 1.5	1000	80	22.0	15	50
BSH M8/10 48 - 52	10-38368	48 - 52	1 1/2	M8/10	20 x 1.5	1000	88	26.0	15	50
BSH M8/10 53 - 58	10-38369	53 - 58	-	M8/10	20 x 1.5	1000	94	29.0	15	50
BSH M8/10 58 - 61	10-38370	58 - 61	2	M8/10	20 x 1.5	1000	97	30.0	15	50
BSH M8/10 62 - 67	10-38379	62 - 67	-	M8/10	20 x 2.0	1300	103	33.5	15	50
BSH M8/10 68 - 74	10-38371	68 - 74	-	M8/10	20 x 2.0	1300	110	37.0	15	50
BSH M8/10 75 - 80	10-38372	75 - 80	2 1/2	M8/10	20 x 2.0	1300	116	40.0	15	50
BSH M8/10 81 - 86	10-38373	81 - 86	-	M8/10	20 x 2.0	1300	122	43.0	15	50
BSH M8/10 87 - 92	10-38374	87 - 92	3	M8/10	20 x 2.0	1300	128	46.0	15	50
BSH M8/10 100 - 106	10-38375	100 - 106	3 1/2	M8/10	20 x 2.5	1300	146	53.0	15	25
BSH M8/10 108 - 116	10-38376	108 - 116	4	M8/10	20 x 2.5	1300	156	58.0	15	25
BSH M8/10 121 - 127	10-38377	121 - 127	-	M8/10	20 x 2.5	1300	167	63.5	15	25

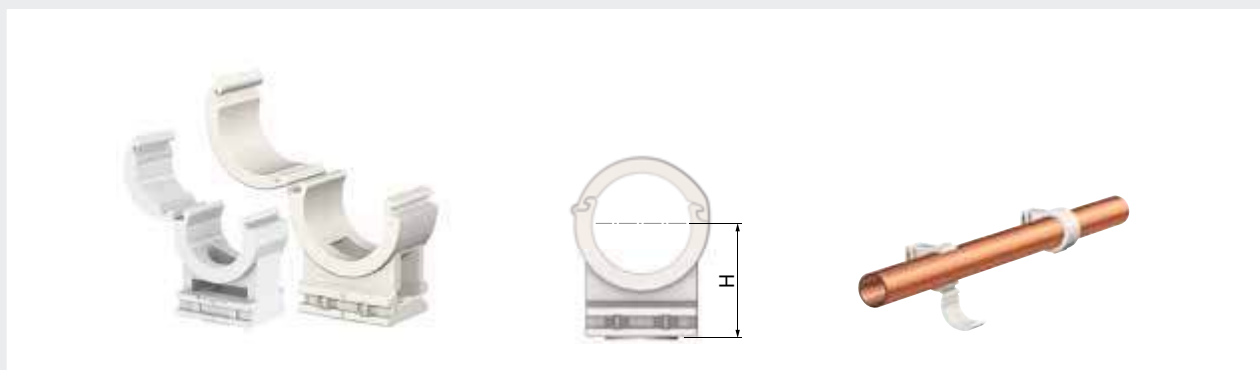


clips for copper and thin-walled steel pipes

Variofit clips - M6

Variofit nylon clips are especially designed for mounting copper and thin-walled steel pipes to the wall or ceiling. Variofit clips can be secured using an M6 rod or with Dowel screws with heads up to 7 mm and can be mounted using VSH FastFix R1 to R8 rails. The ring on the bottom prevents damage to the wall during fitting.

- Adjustable brass fixing nut (movement: +/- 5 mm).
- Hinged snap fastening.
- Suitable for temperatures up to 90°C.
- Pre-assembly of pipe is possible.
- Variofit clips are compatible with pipe sizes as per DIN EN 1057.

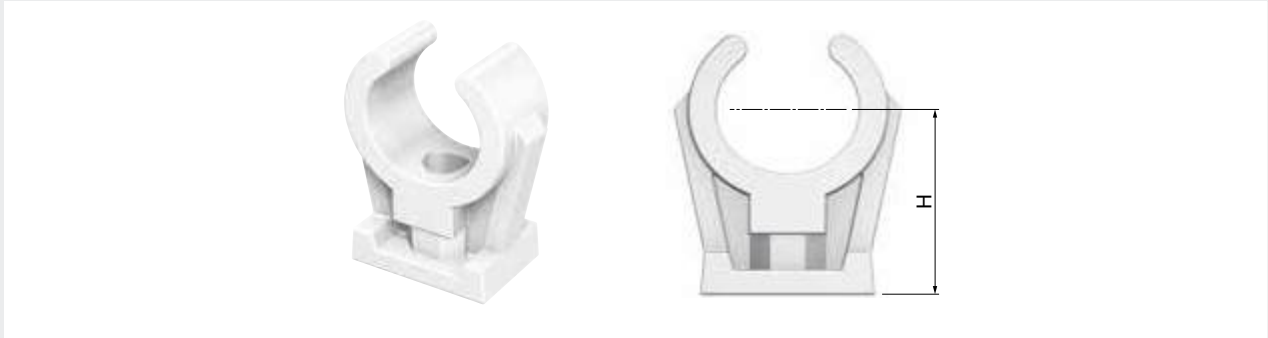


type	article number	ext. pipe Ø [mm]	minimum pull-out force [N]		dimensions [mm] H	
			cap open	cap closed		
Variofit 12	10-15112	12	100	500	20	500
Variofit 15	10-15115	15	100	500	20	500
Variofit 22	10-15122	22	100	700	25	250
Variofit 28	10-15128	28	100	700	25	250

KS clips - M6

For horizontal or vertical fitting of copper, thin-walled or copper pipes.

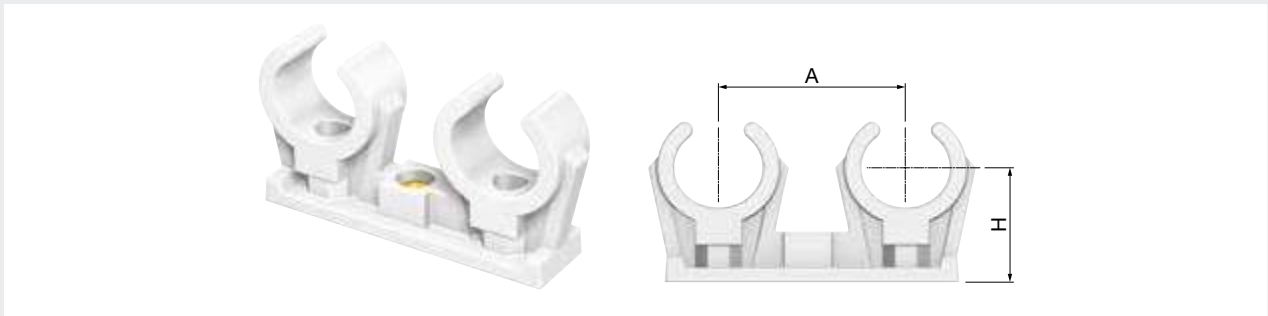
- Fast mounting.
- High quality polypropylene material provides excellent noise damping.
- With brass nut with M6 connection.
- Suitable for temperatures from -30°C up to +120°C.



type	article number	ext. pipe Ø [mm]	dimensions H [mm]	
KS 8	10-62308	8	17.6	100
KS 10	10-62310	10	15.7	100
KS 12	10-62312	12	17.4	100
KS 15	10-62315	15	17.8	100
KS 18	10-62318	18	23.2	100
KS 22	10-62322	22	25.3	100
KS 28	10-62328	28	32.25	25
KS 35	10-62335	35	34.1	25

KSD clips - M6

Similar to the KS clip, but a double format.



type	article number	ext. pipe Ø [mm]	dimensions [mm]		
			A	H	
KSD 10	10-62410	10	29	15.46	50
KSD 12	10-62412	12	33	17.6	50
KSD 15	10-62415	15	35	17.8	50
KSD 18	10-62418	18	38	23.2	50
KSD 22	10-62422	22	43	25.3	50

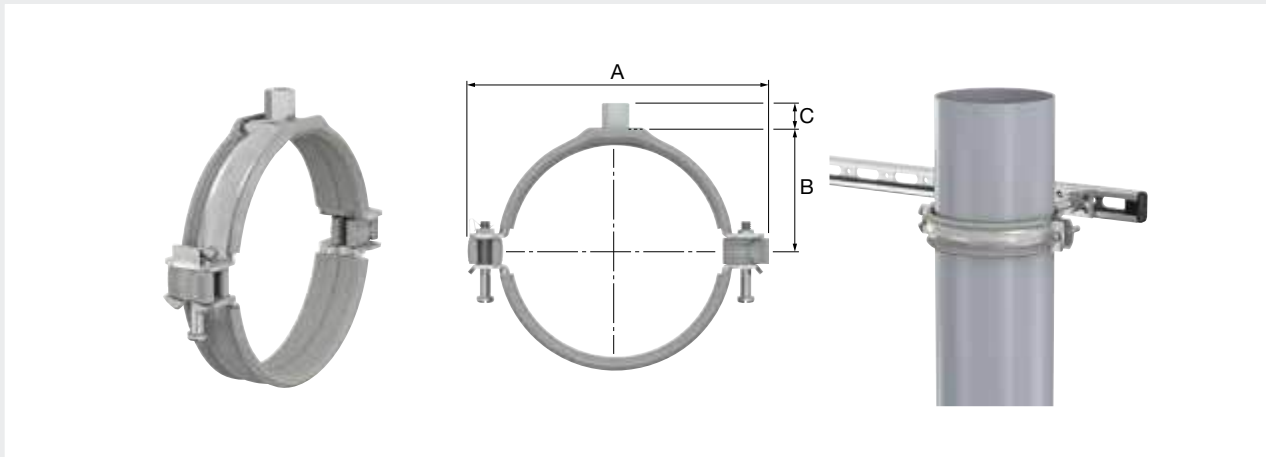
for plastic pipes

BSK-I clips M8/10

Dedicated clips for plastic pipes with special TPE (ThermoPlastic Elastomer) lining.

The BSK-I clip has easily removable plastic spacers between the two clip halves and can be transformed into a clenching clip without the need for tools.

- The clip's edges bend outwards ensure that the pipe will not be damaged when the clamping function is being applied.
- Special TPE lining with excellent low friction properties.
- Transformable from sliding to clamping with easily removable spacer.
- Fast and safe closing around the pipe thanks to the patented click-spring locking system.
To achieve maximum noise reduction do not overload the fitting.
- TPE lining is UV resistant preventing it from degrading over time.
- No additional clamp liners needed for clenching application.
- Noise reduction: 20 dB(A) with spacer, 18 dB(A) without spacer.
- Electrolytically zinc plated.
- Equipped with screws with Pozidriv 2 head.

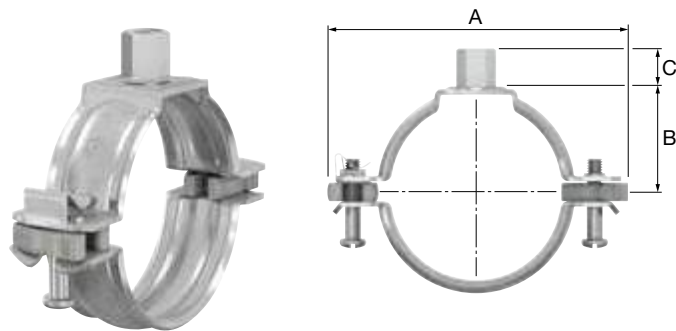


type	article number	ext. pipe Ø [mm]	strip dimensions [mm]	connection	max. working load [N]	dimensions [mm]			
						A	B	C	
BSK-I M8/10 x 16	10-37320	16	28 x 1.5	M8 - M10	1300	66	17	15	50
BSK-I M8/10 x 20	10-37321	20	28 x 1.5	M8 - M10	1300	70	19	15	50
BSK-I M8/10 x 25	10-37322	25	28 x 1.5	M8 - M10	1300	76	21	15	50
BSK-I M8/10 x 32	10-37323	32	28 x 1.5	M8 - M10	1300	83	26	15	50
BSK-I M8/10 x 40	10-37324	40	28 x 1.5	M8 - M10	1300	91	29	15	50
BSK-I M8/10 x 50	10-37325	50	28 x 1.5	M8 - M10	1300	101	34	15	50
BSK-I M8/10 x 56	10-37326	56	28 x 2.0	M8 - M10	1300	107	37	15	50
BSK-I M8/10 x 63	10-37327	63	28 x 2.0	M8 - M10	1300	116	40	15	50
BSK-I M8/10 x 75	10-37328	75	28 x 2.0	M8 - M10	2000	127	47	15	50
BSK-I M8/10 x 90	10-37329	90	28 x 2.0	M8 - M10	2000	140	50	15	50
BSK-I M8/10 x 110	10-37330	110	28 x 2.5	M8 - M10	2000	160	61	15	25
BSK-I M8/10 x 125	10-37331	125	28 x 2.5	M8 - M10	2000	176	68	15	25
BSK-I M8/10 x 160	10-37332	160	28 x 2.5	M8 - M10	2000	212	86	15	25
BSK-I M8/10 x 200	10-37333	200	28 x 2.5	M8 - M10	2000	252	106	15	10
BSK-I M8/10 x 250	10-37334	250	28 x 3.0	M8 - M10	2000	303	132	15	50
BSK-I M8/10 x 315	10-37335	315	28 x 3.0	M8 - M10	2000	368	164	15	50

BSK clips M8/10

Dedicated clips for plastic pipes with easily removable plastic spacers between the clip halves. These spacers can be removed without using any tools transforming the clip from sliding to clamping.

- With the clips' edges bend away from the pipe, the design ensures low friction when used as a sliding clip and no risk of damaging the pipe when used as a clenching clip.
- Excellent low friction properties due to shallow ribbing and edges bend outwards..
- Transformable from sliding to clamping with easily removable spacer.
- Fast and safe closing around the pipe thanks to the patented click-spring locking system.
- Electrolytically zinc plated.
- No additional clamp liners needed for clenching application.

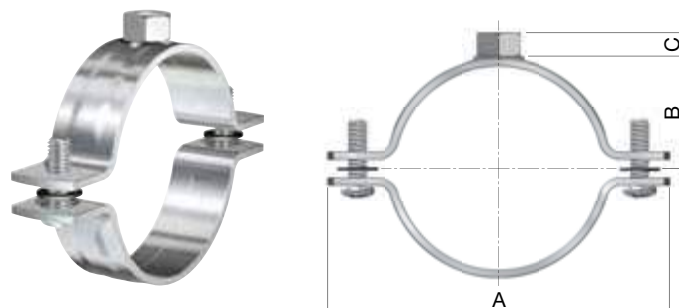


type	article number	ext. pipe Ø [mm]	strip dimensions [mm]	connection	max. working load [N]	dimensions [mm]			
						A	B	C	
BSK M8/10 x 32	10-37220	32	28 × 1.5	M8 - M10	1300	77	22	15	50
BSK M8/10 x 40	10-37221	40	28 × 1.5	M8 / M10	1300	85	26	15	50
BSK M8/10 x 50	10-37222	50	28 × 1.5	M8 - M10	1300	96	31	15	50
BSK M8/10 x 56	10-37223	56	28 × 2.0	M8 - M10	1300	102	34	15	50
BSK M8/10 x 63	10-37224	63	28 × 2.0	M8 - M10	1300	109	38	15	50
BSK M8/10 x 70	10-37225	70	28 × 2.0	M8 - M10	1300	116	41	15	50
BSK M8/10 x 75	10-37226	75	28 × 2.0	M8 - M10	2000	121	44	15	50
BSK M8/10 x 80	10-37227	80	28 × 2.0	M8 - M10	2000	129	45	15	50
BSK M8/10 x 90	10-37228	90	28 × 2.0	M8 - M10	2000	138	50	15	50
BSK M8/10 x 100	10-37229	100	28 × 2.0	M8 - M10	2000	148	55	15	50
BSK M8/10 x 110	10-37230	110	28 × 2.5	M8 - M10	2000	157	61	15	25
BSK M8/10 x 125	10-37231	125	28 × 2.5	M8 - M10	2000	175	68	15	25
BSK M8/10 x 140	10-37232	140	28 × 2.5	M8 - M10	2000	190	76	15	25
BSK M8/10 x 160	10-37233	160	28 × 2.5	M8 - M10	2000	211	86	15	25
BSK M8/10 x 200	10-37234	200	28 × 2.5	M8 - M10	2000	251	106	15	10
BSK M8/10 x 250	10-37235	250	28 × 3.0	M8 - M10	2000	302	132	15	50
BSK M8/10 x 315	10-37236	315	28 × 3.0	M8 - M10	2000	368	164	15	50

clips for steel pipes

BSF M8/10 clips

- With combined M8/10 connection.

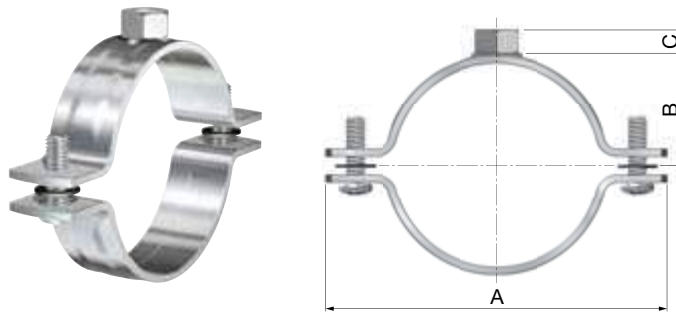


type	article number	Ø pipe		connec- tion	strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
BSF M8/10 x 13 - 17.5	10-38671	13 - 17.5	3/8	M8/10	20 x 2.5	2000	53	11	16	100
BSF M8/10 x 21 - 25.5	10-38672	21 - 25.5	1/2	M8/10	20 x 2.5	2000	61	15	16	100
BSF M8/10 x 26.5 - 30.5	10-38673	26.5 - 30.5	3/4	M8/10	20 x 2.5	2000	68	18	16	100
BSF M8/10 x 33.5 - 38.5	10-38674	33.5 - 38.5	1	M8/10	20 x 2.5	2000	76	22	16	100
BSF M8/10 x 41.5 - 47	10-38675	41.5 - 47	1 1/4	M8/10	20 x 2.5	2000	86	26	16	100
BSF M8/10 x 48 - 54	10-38676	48 - 54	1 1/2	M8/10	20 x 2.5	2000	95	32	16	10
BSF M8/10 x 56 - 62.5	10-38677	56 - 62.5	2	M8/10	20 x 2.5	2000	104	34	16	10
BSF M8/10 x 62.5 - 69.5	10-38678	62.5 - 69.5	-	M8/10	20 x 2.5	2000	111	37	16	10
BSF M8/10 x 69.5 - 76.5	10-38679	69.5 - 76.5	2 1/2	M8/10	20 x 2.5	2000	118	41	16	10
BSF M8/10 x 77.5 - 84	10-38680	77.5 - 84	-	M8/10	20 x 2.5	2000	125	45	16	10
BSF M8/10 x 85 - 92.5	10-38681	85 - 92.5	3	M8/10	20 x 2.5	2000	134	49	16	10
BSF M8/10 x 93 - 100.5	10-38682	93 - 100.5	-	M8/10	25 x 2.5	2500	152	53	16	25
BSF M8/10 x 101.5 - 110	10-38683	101.5 - 110	-	M8/10	25 x 2.5	2500	161	58	16	25
BSF M8/10 x 110 - 117.5	10-38684	110 - 117.5	4	M8/10	25 x 2.5	2500	169	61	16	25
BSF M8/10 x 119.5 - 127.5	10-38685	119.5 - 127.5	-	M8/10	25 x 2.5	2500	179	66	16	25
BSF M8/10 x 127.5 - 133.5	10-38686	127.5 - 133.5	-	M8/10	25 x 2.5	2500	185	69	16	25



BSF M12 clips

- Similar to BSF M8 clips, but with combined M12 connection.

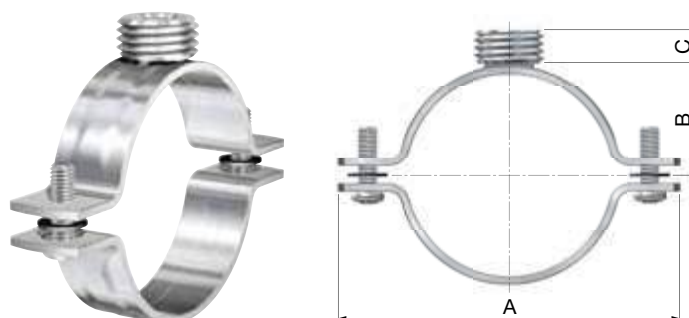


type	article number	Ø pipe		connection	strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
BSF M12 x 93 - 100.5	10-38742	93 - 100.5	-	M12	25 x 2.5	2500	152	53	12	25
BSF M12 x 110 - 117.5	10-38744	110 - 117.5	4	M12	25 x 2.5	2500	169	61	12	25
BSF M12 x 134.5 - 142.5	10-38747	134.5 - 142.5	5	M12	30 x 3.0	3000	197	76	12	25
BSF M12 x 163.5 - 171.5	10-38750	163.5 - 171.5	6	M12	30 x 3.0	3000	226	89	12	25



BSF ½ M/M10 clips

- Similar to the BSF M8 clips, but with a combined G½" M (BSP) / M10 connection.



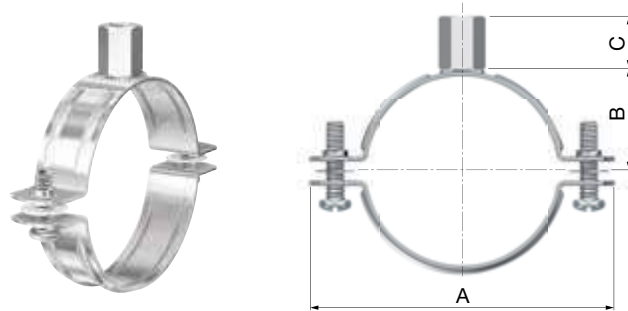
type	article number	Ø pipe		connection	strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
BSF ½ M/M10 x 13 - 17.5	10-51801	13 - 17.5	¾	G½" M/M10	20 x 2.5	2000	53	11	10	50
BSF ½ M/M10 x 21 - 25.5	10-51802	21 - 25.5	½	G½" M/M10	20 x 2.5	2000	61	15	10	50
BSF ½ M/M10 x 26.5 - 30.5	10-51803	26.5 - 30.5	¾	G½" M/M10	20 x 2.5	2000	68	18	10	50
BSF ½ M/M10 x 33.5 - 38.5	10-51804	33.5 - 38.5	1	G½" M/M10	20 x 2.5	2000	76	22	10	50
BSF ½ M/M10 x 41.5 - 47	10-51805	41.5 - 47	1¼	G½" M/M10	20 x 2.5	2000	86	26	10	50
BSF ½ M/M10 x 48 - 54	10-51806	48 - 54	1½	G½" M/M10	20 x 2.5	2000	95	32	10	50
BSF ½ M/M10 x 56 - 62.5	10-51807	56 - 62.5	2	G½" M/M10	20 x 2.5	2000	104	34	10	50
BSF ½ M/M10 x 62.5 - 69.5	10-51808	62.5 - 69.5	-	G½" M/M10	20 x 2.5	2000	111	37	10	50
BSF ½ M/M10 x 69.5 - 76.5	10-51809	69.5 - 76.5	2½	G½" M/M10	20 x 2.5	2000	118	41	10	50
BSF ½ M/M10 x 77.5 - 84	10-51810	77.5 - 84	-	G½" M/M10	20 x 2.5	2000	125	45	10	50
BSF ½ M/M10 x 85 - 92.5	10-51811	85 - 92.5	3	G½" M/M10	20 x 2.5	2000	134	49	10	50
BSF ½ M/M10 x 93 - 100.5	10-51812	93 - 100.5	-	G½" M/M10	25 x 2.5	2500	152	53	10	25
BSF ½ M/M10 x 101.5 - 110	10-51813	101.5 - 110	-	G½" M/M10	25 x 2.5	2500	161	58	10	25
BSF ½ M/M10 x 110 - 117.5	10-51814	110 - 117.5	4	G½" M/M10	25 x 2.5	2500	169	61	10	25
BSF ½ M/M10 x 119.5 - 127.5	10-51815	119.5 - 127.5	-	G½" M/M10	25 x 2.5	2500	179	66	10	25
BSF ½ M/M10 x 127.5 - 133.5	10-51816	127.5 - 133.5	-	G½" M/M10	25 x 2.5	2500	185	69	10	25
BSF ½ M/M10 x 134.5 - 142.5	10-51817	134.5 - 142.5	5	G½" M/M10	30 x 3.0	3000	197	76	10	25
BSF ½ M/M10 x 143.5 - 150.5	10-51818	143.5 - 150.5	-	G½" M/M10	30 x 3.0	3000	205	78	10	25
BSF ½ M/M10 x 151.5 - 159.5	10-51819	151.5 - 159.5	-	G½" M/M10	30 x 3.0	3000	214	83	10	25
BSF ½ M/M10 x 163.5 - 171.5	10-51820	163.5 - 171.5	6	G½" M/M10	30 x 3.0	3000	226	89	10	25
BSF ½ M/M10 x 172.5 - 182	10-51821	172.5 - 182	-	G½" M/M10	30 x 3.0	3000	236	94	10	25
BSF ½ M/M10 x 192.5 - 198	10-51822	192.5 - 198	-	G½" M/M10	30 x 3.0	3000	252	102	10	25



BSU clips

BSU clips are designed for mounting steel pipes to the wall or ceiling.

- With retaining ring.
- Bolt with slot and cross head.
- Close fitting possible.
- Safety margin for minimal breaking load (V) = 3.
- Compatible with pipe sizes as per DIN 2448.
- Clip: Electrolytically zinc plated.
- Equipped with Philips / slotted head screws.



type	article number	Ø pipe		connection	strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
BSU M8/10 x 15 - 18	10-38270	15 - 18	3/8	M8/10	20 x 1.5	1000	50	11	16	50
BSU M8/10 x 20 - 25	10-38271	20 - 25	1/2	M8/10	20 x 1.5	1000	60	16	16	50
BSU M8/10 x 26 - 30	10-38272	26 - 30	3/4	M8/10	20 x 1.5	1000	64	19	16	50
BSU M8/10 x 32 - 36	10-38273	32 - 36	1	M8/10	20 x 1.5	1000	71	22	16	50
BSU M8/10 x 38 - 43	10-38274	38 - 43	1 1/4	M8/10	20 x 1.5	1000	79	25	16	50
BSU M8/10 x 44 - 49	10-38275	44 - 49	1 1/2	M8/10	20 x 1.5	1000	84	28	16	50
BSU M8/10 x 56 - 61	10-38276	56 - 61	2	M8/10	20 x 1.5	1000	93	34	16	50
BSU M8/10 x 62 - 67	10-38286	62 - 67	-	M8/10	20 x 1.5	1000	109	36	16	50
BSU M8/10 x 75 - 80	10-38277	75 - 80	2 1/2	M8/10	20 x 2.0	1300	118	44	16	50
BSU M8/10 x 87 - 92	10-38278	87 - 92	3	M8/10	20 x 2.0	1300	129	50	16	50
BSU M8/10 x 108 - 116	10-38279	108 - 116	4	M8/10	20 x 2.5	2150	160	62	16	25
BSU M8/10 x 121 - 127	10-38287	121 - 127	-	M8/10	20 x 2.5	2150	176	66	16	25
BSU M10/12 x 131 - 141	10-38283	131 - 141	5	M10/12	20 x 2.5	2150	188	75	18	25

RSF clips

RSF clips are designed for heavy duty applications and fixed point constructions. The thickness of the material and the reinforcement ribs make the most rigid assemblies possible.

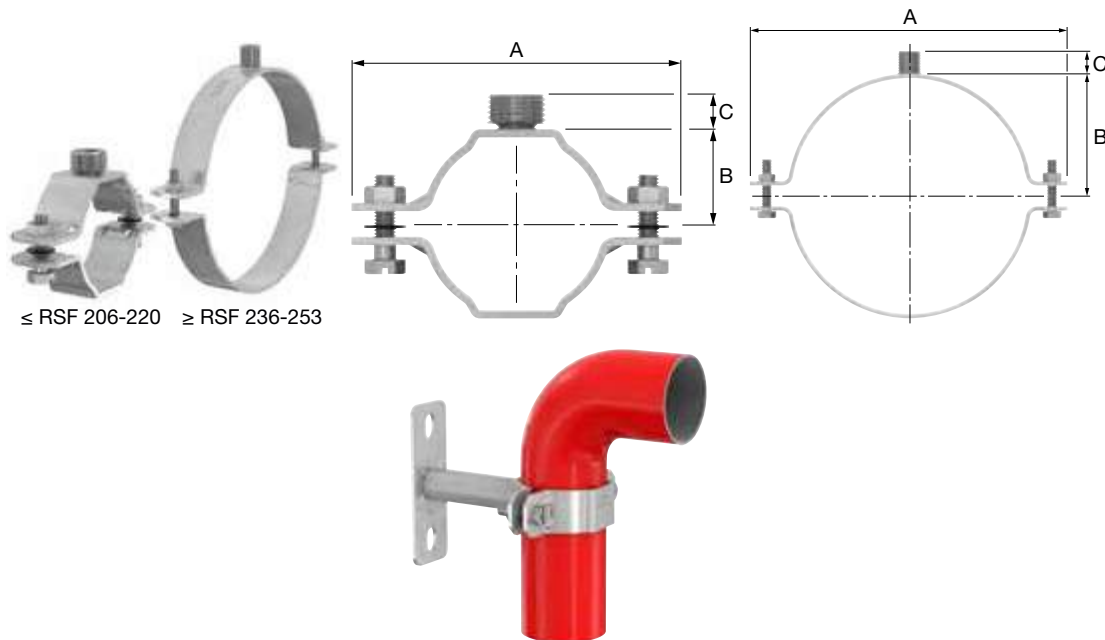
- Complete and comprehensive range.
- A special combinut with outer and inner thread makes a broad range of applications possible in combination with threaded rods and pipes.
- Electrolytically zinc plated.
- Execution:

RSF G½ M (BSP) / M10, G½ M (BSP) / M12 and G¾ M (BSP) / M16:

- Special welded-on nuts on the clip flanges allow high torque on the fixing bolts and permit heavy loads on the clip whilst easing installation.
- Bolt with retaining ring.
- The head of the bolt has a slot, a Pozidriv 2 (PZ2) and hexagon for fast installation with a flat or cross-head screwdriver or a spanner.

RSF G¾ M (BSP) / M12/16:

- Equipped with two hexagon bolts.



type	article number	Ø pipe		strip dimensions [mm]	connection	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
RSF ½ M/M10 x 13,5 - 18	10-54201	13.5 - 18.9	¼ + ⅜	30 x 3.0	G½" M/M10	4000	74	12.0	12	50
RSF ½ M/M10 x 19 - 23	10-54202	19 - 23.9	½	30 x 3.0	G½" M/M10	4000	79	14.5	12	50
RSF ½ M/M10 x 24 - 28	10-54203	24 - 28.9	¾	30 x 3.0	G½" M/M10	4000	84	17.0	12	50
RSF ½ M/M10 x 29 - 33	10-54204	29 - 33.9	1	30 x 3.0	G½" M/M10	4000	89	18.5	12	50
RSF ½ M/M10 x 34 - 39	10-54205	34 - 39.9	-	30 x 3.0	G½" M/M10	4000	95	22.5	12	50
RSF ½ M/M10 x 40 - 44	10-54206	40 - 44.9	1¼	30 x 3.0	G½" M/M10	4000	100	25.0	12	50
RSF ½ M/M10 x 45 - 49	10-54207	45 - 49.9	1½	30 x 3.0	G½" M/M10	4000	105	27.5	12	50
RSF ½ M/M10 x 50 - 55	10-54208	50 - 55.9	-	30 x 3.0	G½" M/M10	4000	111	30.5	12	25
RSF ½ M/M10 x 56 - 61	10-54209	56 - 61.9	2	30 x 3.0	G½" M/M10	4000	117	33.5	12	25
RSF ½ M/M10 x 62 - 68	10-54210	62 - 68.9	-	30 x 3.0	G½" M/M10	4000	124	37.0	12	25
RSF ½ M/M10 x 69 - 76	10-54211	69 - 76.9	2½	30 x 3.0	G½" M/M10	4000	132	41.0	12	25
RSF ½ M/M10 x 77 - 84	10-54212	77 - 84.9	-	30 x 3.0	G½" M/M10	4000	140	45.0	12	25
RSF ½ M/M10 x 85 - 91	10-54213	85 - 91.9	3	40 x 4.0	G½" M/M10	5000	159	49.5	12	25
RSF ½ M/M10 x 92 - 98	10-54214	92 - 98.9	-	40 x 4.0	G½" M/M10	5000	166	53.0	12	25
RSF ½ M/M10 x 99 - 105	10-54215	99 - 105.9	-	40 x 4.0	G½" M/M10	5000	173	56.5	12	25
RSF ½ M/M10 x 106 - 114	10-54216	106 - 114.9	4	40 x 4.0	G½" M/M10	5000	182	61.0	12	20

type	article number	Ø pipe		strip dimensions [mm]	connection	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
RSF ½ M/M12 x 115 - 122	10-54217	115 - 122.9	-	40 x 4.0	G½" M/M12	5000	190	65.0	12	20
RSF ½ M/M12 x 123 - 130	10-54218	123 - 130.9	-	40 x 4.0	G½" M/M12	5000	198	69.0	12	20
RSF ½ M/M12 x 131 - 139	10-54219	131 - 139.9	5	40 x 4.0	G½" M/M12	5000	207	73.5	12	20
RSF ½ M/M12 x 140 - 148	10-54220	140 - 148.9	-	40 x 4.0	G½" M/M12	5000	216	78.0	12	20
RSF ½ M/M12 x 149 - 157	10-54221	149 - 157.9	-	40 x 4.0	G½" M/M12	5000	225	82.5	12	20
RSF ½ M/M12 x 158 - 166	10-54222	158 - 166.9	6	40 x 4.0	G½" M/M12	5000	234	87.0	12	20
RSF ½ M/M12 x 167 - 179	10-54223	167 - 179.9	-	40 x 4.0	G½" M/M12	5000	247	93.5	12	20
RSF ¾ M/M16 x 180 - 192	10-54224	180 - 192.9	-	40 x 4.0	G¾" M/M16	5000	260	100.0	16	10
RSF ¾ M/M16 x 193 - 205	10-54225	193 - 205.9	-	40 x 4.0	G¾" M/M16	5000	273	106.5	16	10
RSF ¾ M/M16 x 206 - 220	10-54226	206 - 220.9	8	40 x 4.0	G¾" M/M16	5000	288	114.0	16	10
RSF ¾ M/M16 x 221 - 235	10-54246	221.0 - 235.0	-	40 x 4.0	G¾" M/M16	5000	303	121.5	16	10
RSF ¾ M/M12/16 x 236 - 253	10-54227	236 - 253.9	-	50 x 5.0	G¾" M/M12/16	9000	330	133.0	26	1
RSF ¾ M/M12/16 x 254 - 273	10-54228	254 - 273.9	10	50 x 5.0	G¾" M/M12/16	9000	348	142.0	26	1
RSF ¾ M/M12/16 x 274 - 286	10-54229	274 - 286.9	-	50 x 5.0	G¾" M/M12/16	9000	361	148.0	26	1
RSF ¾ M/M12/16 x 287 - 305	10-54230	287 - 305.9	-	50 x 5.0	G¾" M/M12/16	9000	380	158.0	26	1
RSF ¾ M/M12/16 x 306 - 324	10-54231	306 - 324.9	12	50 x 5.0	G¾" M/M12/16	9000	399	167.0	26	1
RSF ¾ M/M12/16 x 325 - 337	10-54232	325 - 337.9	-	50 x 5.0	G¾" M/M12/16	9000	412	174.0	26	1
RSF ¾ M/M12/16 x 338 - 356	10-54233	338 - 356.9	14	50 x 5.0	G¾" M/M12/16	9000	431	183.0	26	1
RSF ¾ M/M12/16 x 357 - 369	10-54234	357 - 369.9	-	50 x 5.0	G¾" M/M12/16	9000	444	190.0	26	1
RSF ¾ M/M12/16 x 370 - 387	10-54235	370 - 387.9	-	50 x 5.0	G¾" M/M12/16	9000	462	199.0	26	1
RSF ¾ M/M12/16 x 388 - 406	10-54236	388 - 406.9	16	50 x 5.0	G¾" M/M12/16	9000	481	208.0	26	1

UB U-bolts

U-bolts for fixing pipes directly to rail or other foundations.

- Electrolytically zinc plated.
- Threaded connections from M6 up to M12.
- Supplied with 4 nuts.

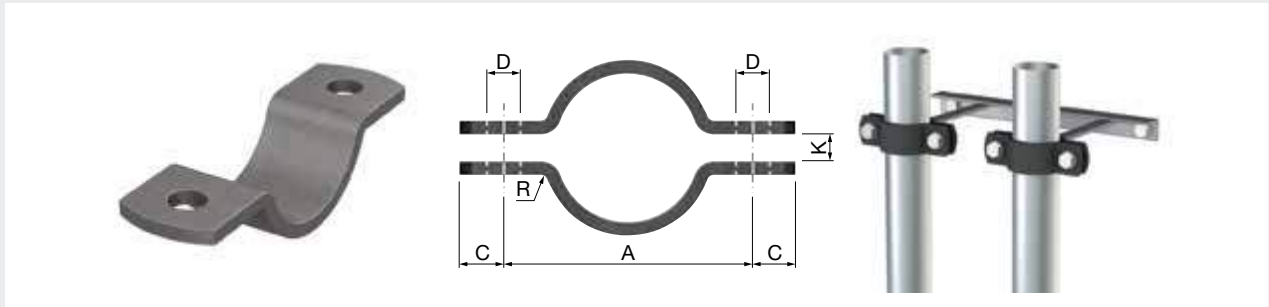


type	article number	Ø pipe		connec- tion	suitable for VSH FastFix and STRUT rail	dimensions [mm]		
		Ext. dia [mm]	nom. ["]			A	B	
UB M6 x 15 - 18	10-81002	15 - 18	$\frac{3}{8}$	M6	R1/R2/R8	36.5	30	100
UB M8 x 23 - 27	10-81004	23 - 27	$\frac{3}{4}$	M8	R0-2/R8/STRUT	45	40	50
UB M8 x 28 - 34	10-81005	28 - 34	1	M8	R0-2/R8/STRUT	49	40	50
UB M8 x 35 - 43	10-81006	35 - 43	1 $\frac{1}{4}$	M8	R0-2/R8/STRUT	53	40	50
UB M10 x 78 - 89	10-81011	78 - 89	3	M10	R1/R2/R8/STRUT	82	50	20
UB M10 x 90 - 102	10-81012	90 - 102	3 $\frac{1}{2}$	M10	R1/R2/R8/STRUT	88	50	20
UB M12 x 170 - 220	10-81020	170 - 220	8	M12	R4/R7/R8/STRUT	150	85	20
UB M16 x 325 - 356	10-81023	325 - 356	14	M16	-	220	70	10

KB fixed point clips (steel)

KB clips are designed for rigid support, such as mounting heavy pipes for rising mains. Suitable for fixed point construction.

- Clip as per DIN 3567.
- Supplied per one half.
- KB clips are compatible with pipe sizes as per DIN 2448 and DIN EN 10220.



type	article number	Ø pipe		boiler tube nom. dia. [mm]	strip dimensions [mm]	needed bolts*	dimensions [mm]					torque* [Nm]	max. axial shear [N]	
		ext. [mm]	nom. ["]				A	C	D	K	R [mm]			
KB 27	10-37901	27	¾	20	30 x 5.0	M10 x 30	66	15	11.5	7	7	50	1000	1
KB 34	10-37903	34	1	25	30 x 5.0	M10 x 30	72	15	11.5	7	7	50	2500	1
KB 43	10-37905	43	1¼	32	30 x 5.0	M10 x 30	82	15	11.5	7	7	50	2500	1
KB 49	10-37907	49	1½	40	30 x 5.0	M10 x 30	88	15	11.5	7	7	50	2500	1
KB 61	10-37909	61	2	50	40 x 6.0	M12 x 35	108	18	14	9	9	90	5000	1
KB 77	10-37910	77	2½	65	40 x 6.0	M12 x 35	122	18	14	9	9	90	5000	1
KB 89	10-37911	89	3	80	40 x 6.0	M12 x 35	136	18	14	9	9	90	5000	1
KB 115	10-37913	115	4	100	50 x 8.0	M16 x 45	178	24	18	11	12	230	10000	1
KB 140	10-37915	140	5	125	50 x 8.0	M16 x 45	204	24	18	11	12	230	10000	1
KB 169	10-37917	169	6	150	50 x 8.0	M16 x 45	232	24	18	11	12	230	10000	1
KB 220	10-37921	220	8	200	50 x 8.0	M16 x 45	284	24	18	11	12	230	10000	1
KB 273	10-37923	273	10	250	60 x 8.0	M20 x 50	348	30	23	14	12	460	15000	1
KB 324	10-37925	324	12	300	60 x 8.0	M20 x 50	398	30	23	14	12	460	15000	1
KB 407	10-37928	407	16	400	70 x 10.0	M 24 x 60	498	36	27	18	15	800	20000	1

* Hex bolt strength class 8.8 according to ISO 4014 (with friction coefficient of 0,14).

clips for air duct fixing

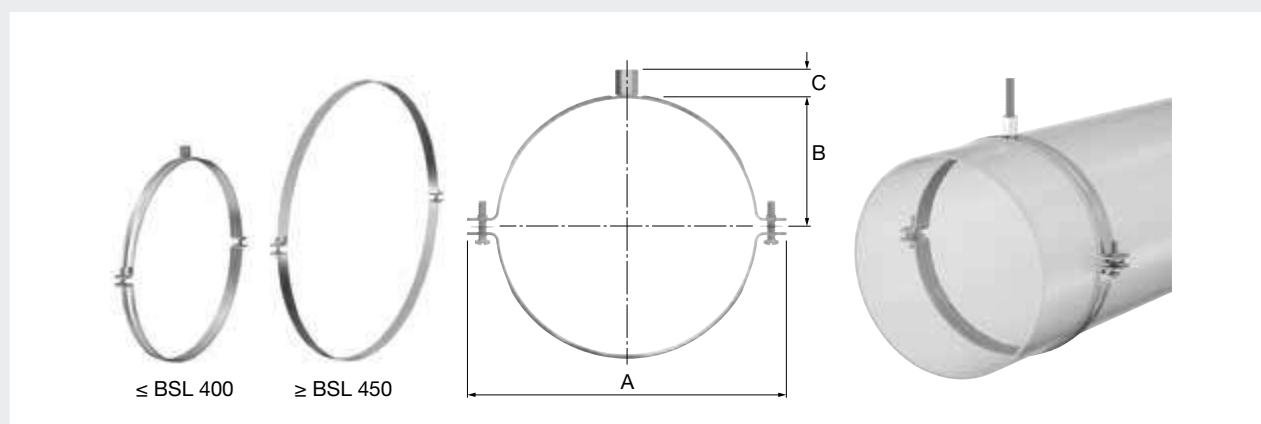
BSL clips

BSL clips are especially designed for mounting circular air duct work to the wall or ceiling.

- Suitable for spiral tubing.
- Possibility of a low built-in height.
- Robust, durable two-piece clip.
- Sendzimir galvanized.
- Execution:

BSL 63 - 400: With M8/10 connection. Side closure: Fastening hook and cross head bolts.

450 - 1250: Side closure: Hexagonal bolts and nuts (M8 x 35).

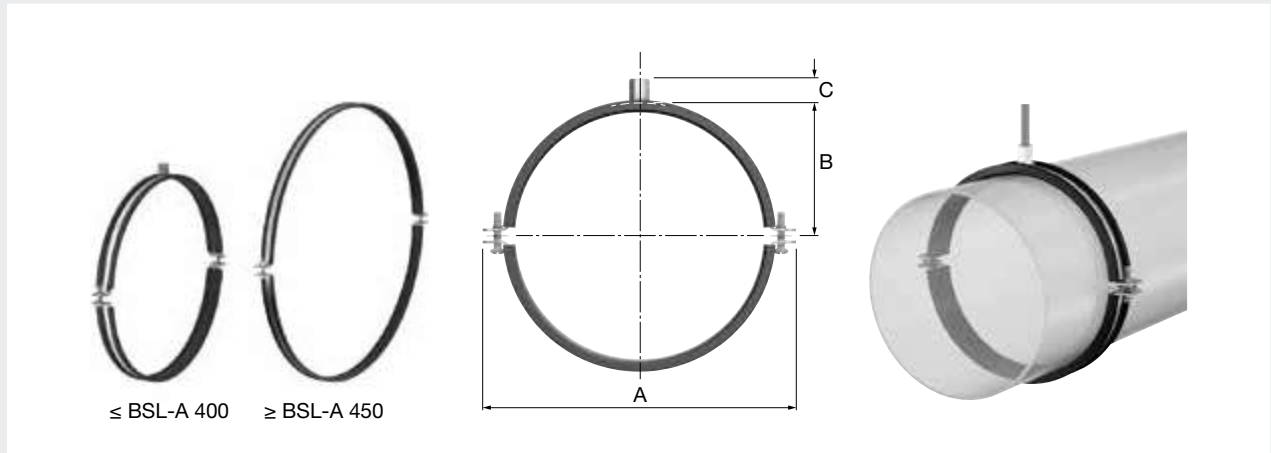


type	article number	Ø pipe int. dia. [mm]	max. working load [N]	strip dimensions [mm]	Side-mounted connections	dimensions [mm]			
						A	B	C	
BSL 63	10-39929	63	850	20 x 2.0	M6 x 25	102	35	15	50
BSL 80	10-39901	80	850	20 x 1.5	M6 x 25	124	43	15	50
BSL 100	10-39903	100	850	20 x 1.5	M6 x 25	144	53	15	25
BSL 112	10-39904	112	850	20 x 1.5	M6 x 25	156	59	15	25
BSL 125	10-39905	125	850	20 x 1.5	M6 x 25	169	66	15	25
BSL 140	10-39906	140	850	20 x 1.5	M6 x 25	184	73	15	25
BSL 150	10-39907	150	850	20 x 1.5	M6 x 25	194	78	15	25
BSL 160	10-39908	160	850	20 x 1.5	M6 x 25	204	84	15	25
BSL 180	10-39909	180	850	20 x 1.5	M6 x 25	224	94	15	25
BSL 200	10-39910	200	850	20 x 1.5	M6 x 25	244	104	15	25
BSL 224	10-39911	224	850	20 x 1.5	M6 x 25	268	116	15	25
BSL 250	10-39912	250	850	20 x 1.5	M6 x 25	294	129	15	25
BSL 280	10-39913	280	850	20 x 1.5	M6 x 25	324	144	15	25
BSL 300	10-39914	300	850	20 x 1.5	M6 x 25	344	154	15	25
BSL 315	10-39915	315	850	20 x 1.5	M6 x 25	359	161	15	25
BSL 355	10-39916	355	850	20 x 1.5	M6 x 40	399	181	15	25
BSL 400	10-39917	400	850	20 x 1.5	M6 x 40	444	204	15	25
BSL 450	10-39918	450	2500	25 x 2.5	M8 x 35*	515	230	15	1
BSL 500	10-39919	500	2500	25 x 2.5	M8 x 35*	565	255	15	1
BSL 560	10-39920	560	2500	25 x 2.5	M8 x 35*	625	285	15	1
BSL 600	10-39928	600	2500	25 x 2.5	M8 x 35*	665	306	15	1
BSL 630	10-39921	630	2500	25 x 2.5	M8 x 35*	695	321	15	1
BSL 710	10-39922	710	2500	25 x 2.5	M8 x 35*	775	361	15	1
BSL 800	10-39923	800	2500	25 x 2.5	M8 x 35*	865	406	15	1
BSL 900	10-39924	900	2500	25 x 2.5	M8 x 35*	965	456	15	1
BSL 1000	10-39925	1000	2500	25 x 2.5	M8 x 35*	1065	506	15	1
BSL 1120	10-39926	1120	2500	25 x 3.0	M8 x 35*	1185	566	15	1
BSL 1250	10-39927	1250	2500	25 x 3.0	M8 x 35*	1315	631	15	1

* Bolt and nut.

BSL-A clips

- Similar to the BSL clip but equipped with noise-suppressing EPDM rubber lining.
- Suitable for temperatures from -40°C up to +100°C.



type	article number	Ø pipe int. dia. [mm]	max. working load [N]	strip dimensions [mm]	Side-mounted connections	dimensions [mm]			
						A	B	C	
BSL-A 80	10-39951	80	850	20 x 1.5	M6 x 25	128	47	15	50
BSL-A 100	10-39953	100	850	20 x 1.5	M6 x 25	150	57	15	25
BSL-A 112	10-39954	112	850	20 x 1.5	M6 x 25	170	63	15	25
BSL-A 125	10-39955	125	850	20 x 1.5	M6 x 25	185	69	15	25
BSL-A 140	10-39956	140	850	20 x 1.5	M6 x 25	195	77	15	25
BSL-A 150	10-39957	150	850	20 x 1.5	M6 x 25	205	82	15	25
BSL-A 160	10-39958	160	850	20 x 1.5	M6 x 25	215	87	15	25
BSL-A 180	10-39959	180	850	20 x 1.5	M6 x 25	240	97	15	25
BSL-A 200	10-39960	200	850	20 x 1.5	M6 x 25	265	107	15	25
BSL-A 224	10-39961	224	850	20 x 1.5	M6 x 25	277	119	15	25
BSL-A 250	10-39962	250	850	20 x 1.5	M6 x 25	303	132	15	25
BSL-A 280	10-39963	280	850	20 x 1.5	M6 x 25	333	147	15	25
BSL-A 300	10-39964	300	850	20 x 1.5	M6 x 25	353	157	15	25
BSL-A 315	10-39965	315	850	20 x 1.5	M6 x 25	368	165	15	25
BSL-A 355	10-39966	355	850	20 x 1.5	M6 x 40	408	185	15	25
BSL-A 400	10-39967	400	850	20 x 1.5	M6 x 40	453	207	15	25
BSL-A 450	10-39968	450	2500	25 x 2.5	M8 x 35*	514	233	15	1
BSL-A 500	10-39969	500	2500	25 x 2.5	M8 x 35*	564	258	15	1
BSL-A 560	10-39970	560	2500	25 x 2.5	M8 x 35*	624	288	15	1
BSL-A 600	10-39978	600	2500	25 x 2.5	M8 x 35*	664	309	15	1
BSL-A 630	10-39971	630	2500	25 x 2.5	M8 x 35*	694	324	15	1
BSL-A 710	10-39972	710	2500	25 x 2.5	M8 x 35*	774	364	15	1
BSL-A 800	10-39973	800	2500	25 x 2.5	M8 x 35*	864	409	15	1
BSL-A 900	10-39974	900	2500	25 x 2.5	M8 x 35*	964	459	15	1
BSL-A 1000	10-39975	1000	2500	25 x 2.5	M8 x 35*	1064	509	15	1
BSL-A 1120	10-39976	1120	2500	25 x 3.0	M8 x 35*	1184	569	15	1
BSL-A 1250	10-39977	1250	2500	25 x 3.0	M8 x 35*	1314	634	15	1

* Bolt and nut.



VSH FastFix

insulating clips

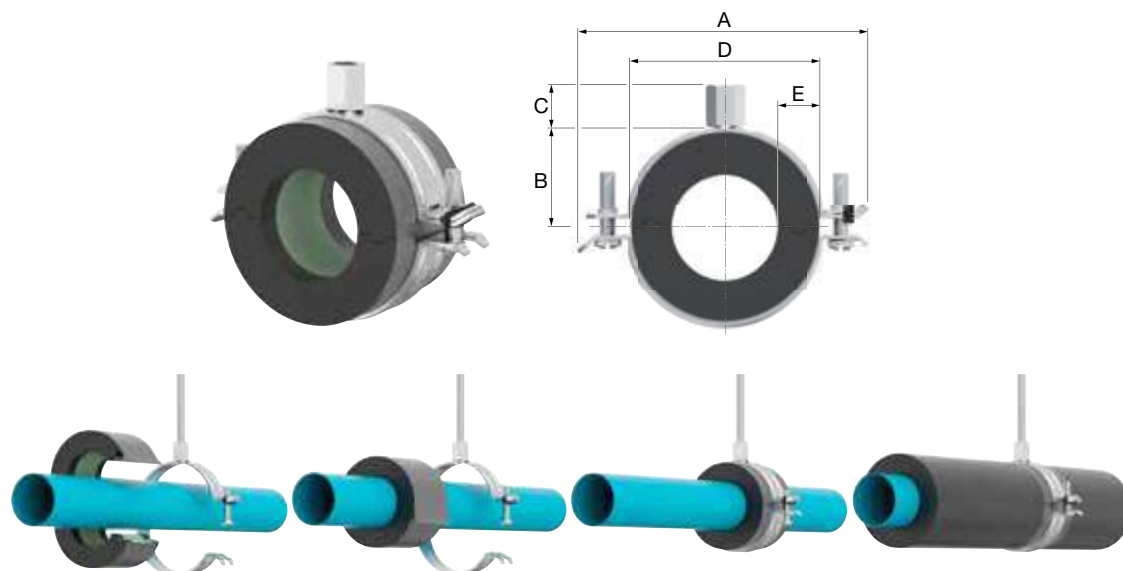


clips with elastomer insulation

CB clips - 13 mm

For mounting pipework with an elastomer insulation to the wall or ceiling to prevent thermal losses.

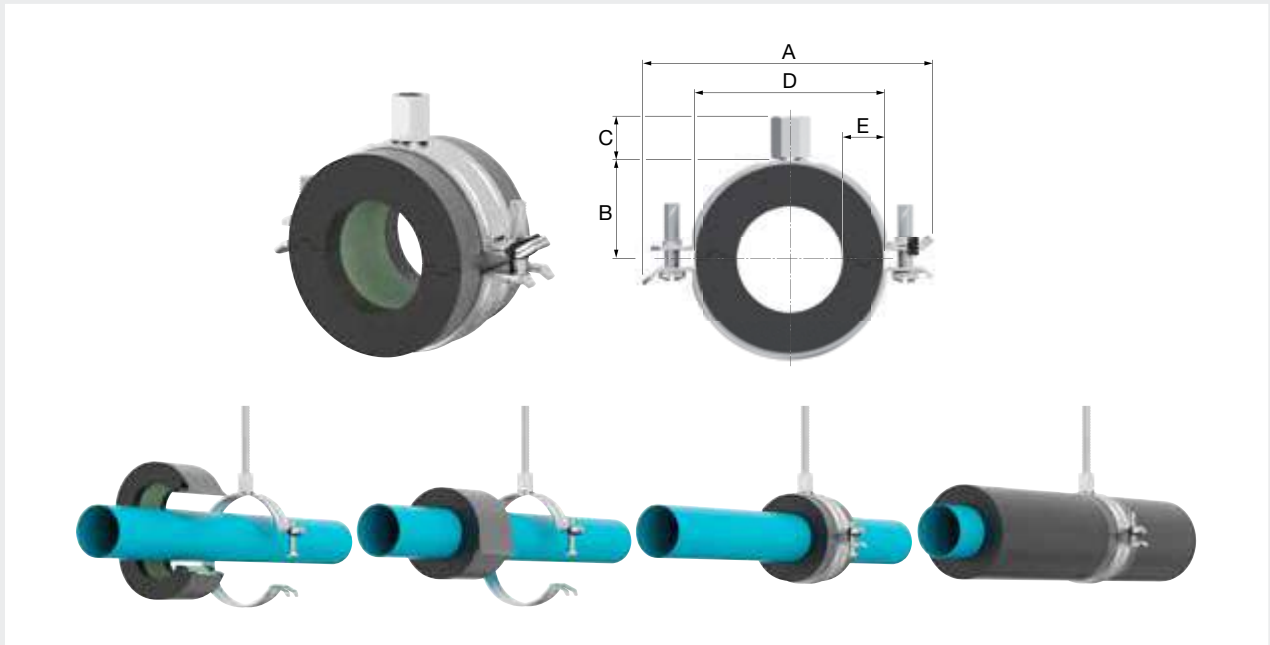
- Clip: Electrolytically zinc plated.
- Insulation: 13 Elastomeric foam with a PIR core and coated with a black PVC foil.
- Easy to bond with pipework insulation. No thermal bridge.
- Connection: M8/10.
- Insulation width: 50 mm.
- All clips are fitted with two cross head screws.
- Clips fitted with quick-locking system and bolts designed not to fall out during installation: all sizes except 114-4".
- Clips fitted with retaining ring: CB 13 x 114-4" and CB 19 x 114-4".
- PIR density 80 kg/m³, PIR pressure resistance 0.52 N/mm²: CB 13 x 10 up to CB 13 x 60-2" and CB 19 x 18 up to CB 19 x 76-2½".
- PIR density 120 kg/m³, PIR pressure resistance 1.3 N/mm²: other sizes.
- Suitable for temperatures from -50°C up to +110°C.
- Thermal conductivity: maximal 0.033 W/(m.K).
- Vapour permeability: 10,000 µ.
- Fire rating B2 according to DIN 4102/1.
- Fire rating B1 according to DIN 4102/1 as part of a system with tubes, elastomer insulation.
- In connection with Kaiflex ST hoses fire class BL-s3, d0.



type	article number	Ø pipe		max. vertical working load [N]	strip dimensions [mm]	dimensions [mm]					
		ext. [mm]	nom. ["]			A	B	C	D	E	
CB 13 x 10	10-39847	10	-	50	20 x 1.5	73	21	15	36	13	10
CB 13 x 12	10-39848	12	-	50	20 x 1.5	73	22	15	38	13	10
CB 13 x 15	10-39870	15	-	50	20 x 1.5	81	23	15	41	13	10
CB 13 x 18	10-39871	18	-	70	20 x 1.5	81	23	15	44	13	10
CB 13 x 22 - ½	10-39872	22	½	80	20 x 1.5	85	25	15	48	13	10
CB 13 x 28 - ¾	10-39873	28	¾	100	20 x 1.5	90	28	15	54	13	10
CB 13 x 35 - 1	10-39874	35	1	130	20 x 1.5	98	32	15	61	13	10
CB 13 x 42 - 1¼	10-39875	42	1¼	160	20 x 2.0	107	36	15	68	13	10
CB 13 x 48-50 - 1½	10-39876	50	1½	180	20 x 2.0	115	40	15	76	13	10
CB 13 x 54	10-39841	54	-	210	20 x 2.0	122	43	15	80	13	10
CB 13 x 60 - 2	10-39877	60	2	230	20 x 2.0	134	49	15	86	13	10
CB 13 x 64	10-39843	64	-	240	20 x 2.0	134	49	15	92	14	10
CB 13 x 76 - 2½	10-39878	76	2½	740	20 x 2.5	155	60	15	111	17	10
CB 13 x 89-90 - 3	10-39879	90	3	850	20 x 2.5	165	65	15	125	17	10
CB 13 x 114 - 4	10-39880	114	4	1100	20 x 2.5	192	77	15	149	17	10

CB clips - 19 mm

- Similar to CB clips - 13 mm, but with 19 mm elastomer insulation.



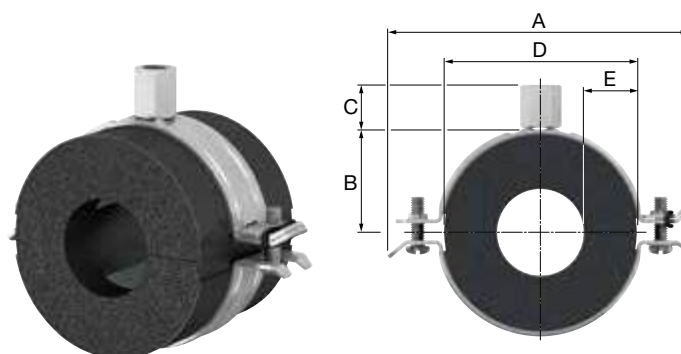
type	article number	Ø pipe		max. vertical working load [N]	strip dimensions [mm]	dimensions [mm]					
		ext. [mm]	nom. ["]			A	B	C	D	E	
CB 19 x 18	10-39886	18	-	70	20 x 1.5	98	32	15	64	19	10
CB 19 x 22 - ½	10-39887	22	½	80	20 x 1.5	98	32	15	64	19	10
CB 19 x 28 - ¾	10-39888	28	¾	100	20 x 1.5	104	35	15	70	19	10
CB 19 x 35 - 1	10-39889	35	1	130	20 x 1.5	115	40	15	80	19	10
CB 19 x 42 - 1¼	10-39890	42	1¼	160	20 x 2.0	122	43	15	86	19	10
CB 19 x 48-50 - 1½	10-39891	50	1½	190	20 x 2.0	128	46	15	92	19	10
CB 19 x 54	10-39897	54	-	210	20 x 2.0	134	49	15	98	19	10
CB 19 x 60 - 2	10-39892	60	2	230	20 x 2.0	140	52	15	104	19	10
CB 19 x 64	10-39898	64	-	240	20 x 2.0	140	52	15	104	20	10
CB 19 x 76 - 2½	10-39893	76	2½	290	20 x 2.5	155	60	15	120	20	10
CB 19 x 89-90 - 3	10-39894	90	3	850	20 x 2.5	177	70	15	140	24	10
CB 19 x 114 - 4	10-39895	114	4	1100	20 x 2.5	211	87	15	174	26	10

CBA-2 clips

For mounting pipework with an elastomer insulation to the wall or ceiling to prevent thermal losses and condensation from chilled water pipes. The CBA insulation clips are a combination of our VSH FastFix CK clips with AF Armafix insulation from Armaflex.

- Easy to bond with pipework insulation. No thermal bridge.
- Adhesive sealing strip for easy closing and lasting of the insulation.
- Elastomer foam with a PET core (100% recycled) with aluminium cover plates (thickness 0.8 mm).
- Part of the Armaflex system warranty.
- Clip: Electrolytically zinc plated.
- Connection: M8/10.
- CBA-2 x 10 - 12 to CBA-2 x 89 - 3: Suited with a quick-locking system and special retaining bolts.
- CBA-2 x 110 - 114 - 4: Fitted with retaining ring to prevent loss of bolts.
- Other clips (CK 16 until 24) fitted with retaining ring.
- Suitable for temperatures from -50°C up to +110°C.
- Insulation thickness between 9.5 and 16 mm.
- PET density: 90 - 105 kg/m³.
- PET pressure resistance: 1.5 N/mm².
- Thermal conductivity: 0.033 W/(m.K).
- Vapour barrier: min 10,000 µ.
- Fire rating B / B₁-s3,d0 according to EN13501-1.

Part of the Armaflex system warranty (up to 10 years warranty under the terms of Armacell).



type	article number	Ø pipe		max. vertical working load [N]	strip dimensions [mm]	dimensions [mm]					
		ext. [mm]	nom. ["]			A	B	C	D	E	
CBA-2 x 10 - 12 - 1/8 - 1/4	10-49000	10 - 13.5	1/8 - 1/4	48	20 x 1.5	73	20.0	15	36	12.0	32
CBA-2 x 15 - 18 - 3/8	10-49001	15 - 18	3/8	70	20 x 1.5	81	22.0	15	43	12.5	24
CBA-2 x 22 - 25 - 1/2	10-49002	21.3 - 25	1/2	94	20 x 1.5	85	24.0	15	47	12.5	24
CBA-2 x 28 - 30 - 3/4	10-49003	26.9 - 30	3/4	126	20 x 1.5	90	26.5	15	53	12.5	16
CBA-2 x 35 - 38 - 1	10-49004	33.7 - 38	1	177	20 x 1.5	98	30.5	15	61	13.0	12
CBA-2 x 42 - 45 - 1 1/4	10-49005	42 - 45	1 1/4	223	20 x 1.5	107	35.0	15	72	13.5	12
CBA-2 x 48 - 1 1/2	10-49006	48 - 51	1 1/2	305	20 x 2.0	115	38.0	15	76	14.0	12
CBA-2 x 54 - 57	10-49007	54 - 57	-	322	20 x 2.0	122	41.5	15	85	14.0	12
CBA-2 x 60 - 64 - 2	10-49008	60 - 64	2	493	20 x 2.0	134	47.5	15	92	14.0	10
CBA-2 x 76 - 80 - 2 1/2	10-49009	76 - 80	2 1/2	801	20 x 2.5	155	57.5	15	109	14.5	12
CBA-2 x 89 - 3	10-49010	89	3	1143	20 x 2.5	165	62.5	15	118	14.5	8
CBA-2 x 110 - 114 - 4	10-49011	110 - 114.3	4	2150	20 x 2.5	192	75.0	15	144	15.0	4

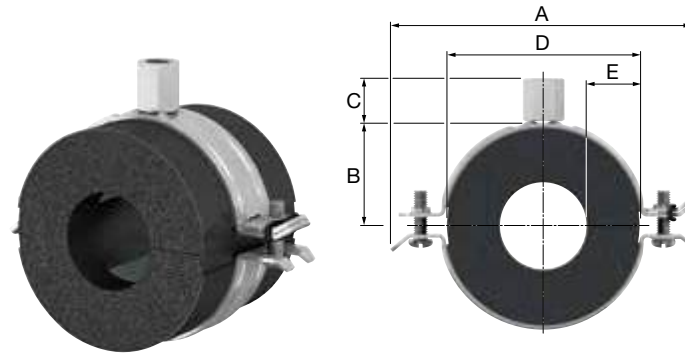
* The max. working load will be determined by the insulation.

CBA-4 clips

Similar to CBA-2 clips, but with:

- Insulation thickness between 15.5 and 25 mm.
- CBA-4 x 10 - 12 to CBA-4 x 89 - 3: Suited with a quick-locking system and special retaining bolts.
- CBA-4 x 110 - 114 - 4 to CBA-4 x 216 - 219 - 8: Fitted with retaining ring to prevent loss of bolts.
- Other clips (CK 16 untill 24) fitted with retaining ring.
- Connection CBA-4 x 10 - 12 - 18 - 1/4 till CBA-4 x 110 - 114 - 4: M8 / M10.
- Connection CBA-4 x 133 - 140 - 5 till CBA-4 x 216 - 219 - 8: M10 / M12.

Part of the Armaflex system warranty (up to 10 years warranty under the terms of Armacell).



type	article number	Ø pipe		max. vertical working load [N]	strip dimensions [mm]	dimensions [mm]					
		ext. [mm]	nom. ["]			A	B	C	D	E	
CBA-4 x 10 - 12 - 1/8 - 1/4	10-49025	10 - 13.5	1/8 - 1/4	48	20 x 1.5	85	24.0	15	48	18.0	26
CBA-4 x 15 - 18 - 3/8	10-49026	15 - 18	3/8	70	20 x 1.5	90	26.5	15	55	18.5	24
CBA-4 x 22 - 25 - 1/2	10-49027	21.3 - 25	1/2	94	20 x 1.5	98	30.5	15	64	19.5	12
CBA-4 x 28 - 30 - 3/4	10-49028	26.9 - 30	3/4	126	20 x 1.5	107	35.0	15	70	20.0	12
CBA-4 x 35 - 38 - 1**	10-49029	33.7 - 38	1	177	20 x 2.0	122	41.5	15	79	20.5	12
CBA-4 x 42 - 45 - 1 1/4	10-49030	42 - 45	1 1/4	223	20 x 2.0	128	44.5	15	88	21.5	12
CBA-4 x 48 - 1 1/2	10-49031	48 - 51	1 1/2	305	20 x 2.0	134	47.5	15	91	21.5	12
CBA-4 x 54 - 57	10-49032	54 - 57	-	322	20 x 2.0	140	50.5	15	101	22.0	16
CBA-4 x 60 - 64 - 2	10-49033	60 - 64	2	493	20 x 2.5	155	57.5	15	109	22.5	12
CBA-4 x 76 - 80 - 2 1/2	10-49034	76 - 80	2 1/2	801	20 x 2.5	167	63.5	15	127	23.5	18
CBA-4 x 89 - 3	10-49035	89	3	1143	20 x 2.5	177	68.0	15	136	23.5	14
CBA-4 x 110 - 114 - 4	10-49036	110 - 114.3	4	1737	20 x 2.5	205	81.5	15	162	24.0	6
CBA-4 x 133 - 140 - 5	10-49037	133 - 140	5	2352	40 x 2.5	245	94.5	18	189	24.5	6
CBA-4 x 165 - 168 - 6	10-49038	165 - 168.3	6	2895	40 x 2.5	270	105.5	18	219	25.5	3
CBA-4 x 216 - 219 - 8	10-49039	216 - 219.1	8	5635	40 x 2.5	344	145.0	18	270	25.5	3

* The max. working load will be determined by the insulation.

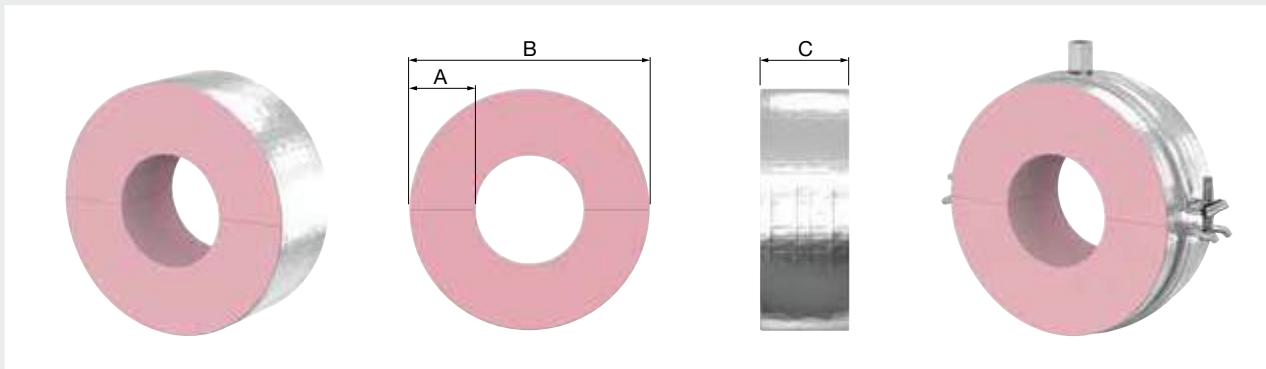
** Pipe with a diameter of 33.7 mm cannot be mounted clamping as standard.

clips with phenolic insulation

Kooltherm insulation - 15 mm

Phenolic insulation blocks to combine with specified VSH FastFix clips. Use of insulation blocks will isolate the pipework from the pipe support and the surrounding environment. It will limit heat transfer from and to the pipework and prevent thermal bridging.

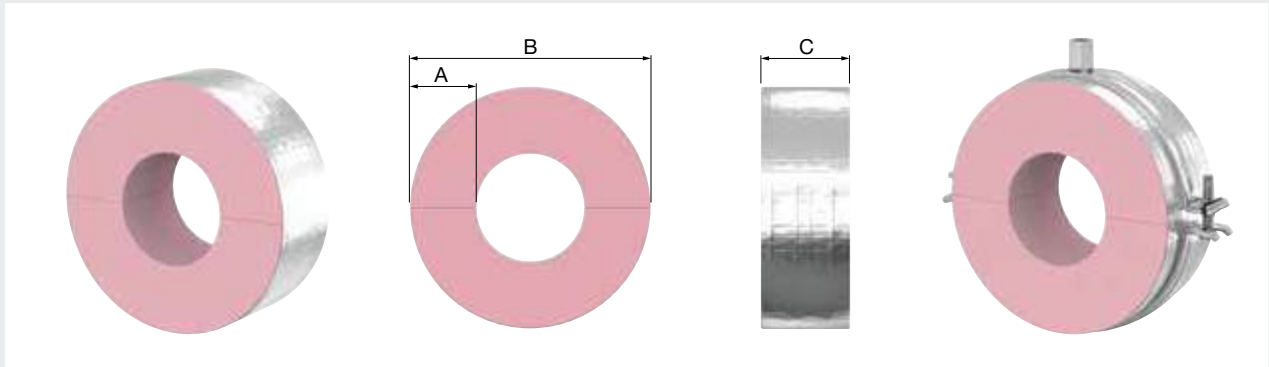
- Insulation thickness: 15 mm.
- Faced with reinforced low vapour permeability aluminium foil.
- Insulation value: <0.031 W/(mk) up to 2", <0.036 W/(mk) up to 5", <0.045 W/(mk) up to 12".
- Density:
 - Kooltherm - 15 - 66 mm: 60 kg/m³
 - Kooltherm - 76 - 114 mm: 80 kg/m³
- Pressure resistance:
 - Kooltherm - 15 - 66 mm: 0,17 N/mm²
 - Kooltherm - 76 - 114 mm: 0,34 N/mm²
- Temperature resistance: from -50°C to +110°C.
- Fire rating: B/ BL - s1, d0.
- Over 90% closed cell structure.
- CE Marked in accordance with BS EN 14314.
- Performance, application method and factory production control assessed and certified by KIWA.
- BDA Agrément® BAP 15-036/01/C.
- Covered by LABC EWW382.
- Insulation FM approved (Class 4924).



type	article number suitable clip	article number insulation	Ø pipe		max. working load [N]	dimensions [mm]			
			ext. [mm]	nom. ["]		A	B	C	
Kooltherm 15x100 - 15 mm	10-37501	10-32750	15	-	90	15	45	100	120
Kooltherm 15x100 - 17 mm	10-37501	10-33300	17	3/8	100	15	47	100	100
Kooltherm 15x100 - 22 mm	10-37502	10-32751	22	1/2	120	15	52	100	96
Kooltherm 15x100 - 28 mm	10-37503	10-32752	28	3/4	150	15	58	100	76
Kooltherm 15x100 - 35 mm	10-37504	10-32753	35	1	190	15	65	100	64
Kooltherm 15x100 - 40 mm	10-37505	10-33304	40	-	230	15	70	100	49
Kooltherm 15x100 - 42 mm	10-37506	10-32754	42	1 1/4	230	15	72	100	54
Kooltherm 15x100 - 48 mm	10-37507	10-32755	48	1 1/2	270	15	78	100	42
Kooltherm 15x100 - 54 mm	10-37508	10-32756	54	-	300	15	84	100	35
Kooltherm 15x100 - 60 mm	10-37509	10-32757	60	2	330	15	90	100	35

Kooltherm insulation - 20 mm

- Similar to Kooltherm insulation - 15 mm.
- Insulation thickness: 20 mm.

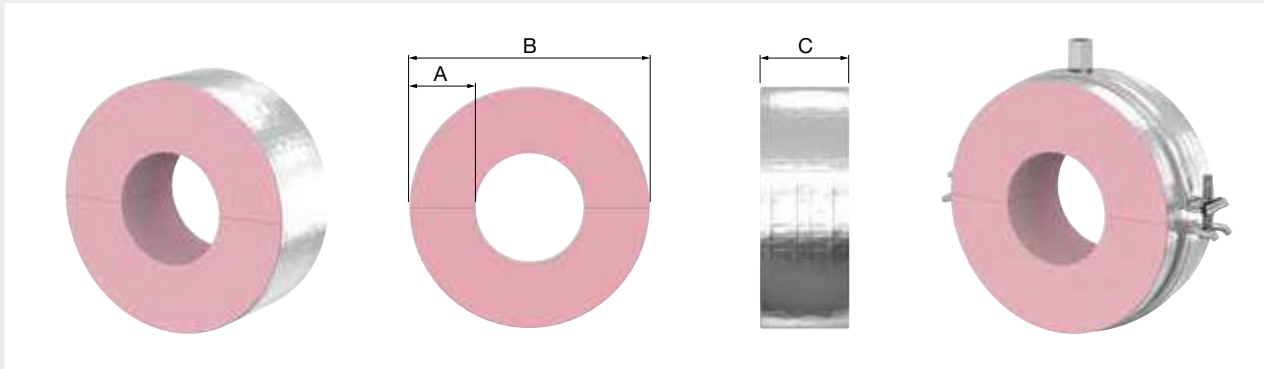


type	article number suitable clip	article number insulation	Ø pipe		max. working load [N]	dimensions [mm]			
			ext. [mm]	nom. ["]		A	B	C	
Kooltherm 20x100 - 15 mm	10-37502	10-32763	15	-	90	20	55	100	80
Kooltherm 20x100 - 20 mm	10-37503	10-33306	20	-	110	20	60	100	64
Kooltherm 20x100 - 22 mm	10-37503	10-32764	22	½	120	20	62	100	67
Kooltherm 20x100 - 25 mm	10-37504	10-33307	25	-	140	20	65	100	49
Kooltherm 20x100 - 28 mm	10-37505	10-32765	28	¾	150	20	68	100	55
Kooltherm 20x100 - 32 mm	10-37506	10-33308	32	-	180	20	72	100	36
Kooltherm 20x100 - 35 mm	10-37506	10-32766	35	1	190	20	75	100	48
Kooltherm 20x100 - 40 mm	10-37507	10-33309	40	-	230	20	80	100	36
Kooltherm 20x100 - 42 mm	10-37507	10-32767	42	1¼	230	20	82	100	40
Kooltherm 20x100 - 48 mm	10-37508	10-32768	48	1½	270	20	88	100	32
Kooltherm 20x100 - 54 mm	10-37509	10-32769	54	-	300	20	94	100	25
Kooltherm 20x100 - 60 mm	10-37510	10-32770	60	2	330	20	100	100	26
Kooltherm 20x100 - 66 mm	10-37511	10-32771	66	-	450	20	106	100	20
Kooltherm 20x100 - 76 mm	10-37512	10-32772	76	2½	620	20	116	100	22
Kooltherm 20x100 - 89 mm	10-37514	10-32773	89	3	730	20	129	100	14
Kooltherm 20x100 - 108 mm	10-37515	10-32774	108	-	900	20	148	100	12
Kooltherm 20x100 - 114 mm	10-37516	10-32775	114	4	940	20	154	100	12
Kooltherm 20x100 - 159 mm	10-37519	10-32778	159	-	3000	20	199	100	9
Kooltherm 20x125 - 168 mm	10-37520	10-32779	168	6	3000	20	208	125	8
Kooltherm 20x125 - 219 mm	10-37523	10-33320	219	-	3000	20	259	125	1

Kooltherm insulation - 25 mm

Phenolic insulation blocks to combine with specified VSH FastFix clips. Use of insulation blocks will isolate the pipework from the pipe support and the surrounding environment. It will limit heat transfer from and to the pipework and prevent thermal bridging.

- Insulation thickness: 25 mm.
Faced with reinforced low vapour permeability aluminium foil.
- Insulation value: <0.031 W/(mk) up to 2", <0.036 W/(mk) up to 5", <0.045 W/(mk) up to 12".
- Density:
Kooltherm - 15 - 66 mm: 60 kg/m³
Kooltherm - 76 - 114 mm: 80 kg/m³
- Pressure resistance:
Kooltherm - 15 - 66 mm: 0,17 N/mm²
Kooltherm - 76 - 114 mm: 0,34 N/mm²
- Temperature resistance: from -50°C to +110°C.
- Fire rating: B/ BL - s1, d0.
- Over 90% closed cell structure.
- CE Marked in accordance with BS EN 14314.
- Performance, application method and factory production control assessed and certified by KIWA.
- BDA Agrément® BAP 15-036/01/C.
- Covered by LABC EWW382.
- Insulation FM approved (Class 4924).

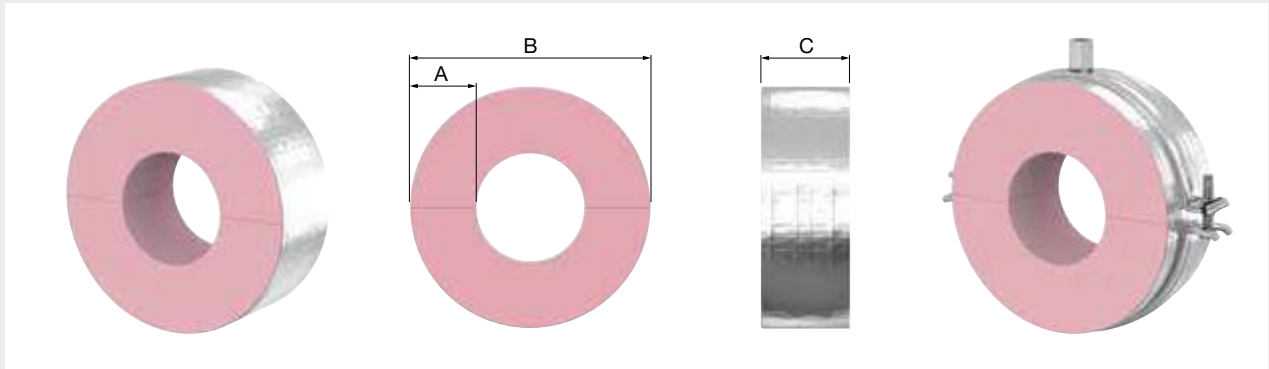


type	article number suitable clip	article number insulation	Ø pipe		max. working load [N]	dimensions [mm]			
			ext. [mm]	nom. ["]		A	B	C	
Kooltherm 25x100 - 15 mm	10-37504	10-32780	15	-	90	25	65	100	55
Kooltherm 25x100 - 22 mm	10-37506	10-32781	22	½	120	25	72	100	45
Kooltherm 25x100 - 28 mm	10-37507	10-32782	28	¾	150	25	78	100	42
Kooltherm 25x100 - 32 mm	10-37507	10-33330	32	-	180	25	82	100	36
Kooltherm 25x100 - 35 mm	10-37508	10-32783	35	1	190	25	85	100	34
Kooltherm 25x100 - 40 mm	10-37509	10-33331	40	1	230	25	90	100	25
Kooltherm 25x100 - 42 mm	10-37509	10-32784	42	1¼	230	25	92	100	31
Kooltherm 25x100 - 48 mm	10-37510	10-32785	48	1½	270	25	98	100	25
Kooltherm 25x100 - 50 mm	10-37510	10-33332	50	-	290	25	100	100	25
Kooltherm 25x100 - 54 mm	10-37511	10-32786	54	-	300	25	104	100	22
Kooltherm 25x100 - 60 mm	10-37511	10-32787	60	2	330	25	110	100	20
Kooltherm 25x100 - 63 mm	10-37511	10-33333	63	-	370	25	113	100	16
Kooltherm 25x100 - 66 mm	10-37512	10-32788	66	-	450	25	116	100	16
Kooltherm 25x100 - 76 mm	10-37513	10-32789	76	2½	620	25	126	100	15
Kooltherm 25x100 - 89 mm	10-38283	10-32790	89	3	730	25	139	100	12
Kooltherm 25x100 - 108 mm	10-37516	10-32791	108	-	900	25	158	100	10
Kooltherm 25x100 - 133 mm	10-37518	10-32793	133	-	1100	25	183	100	10
Kooltherm 25x100 - 140 mm	10-37518	10-32794	140	5	1150	25	190	100	10
Kooltherm 25x100 - 159 mm	10-37520	10-32795	159	-	1300	25	209	100	7
Kooltherm 25x125 - 168 mm	10-37521	10-32796	168	6	3000	25	218	125	7

Kooltherm insulation - 30 mm

Phenolic insulation blocks to combine with specified VSH FastFix clips. Use of insulation blocks will isolate the pipework from the pipe support and the surrounding environment. It will limit heat transfer from and to the pipework and prevent thermal bridging.

- Insulation thickness: 30 mm.
Faced with reinforced low vapour permeability aluminium foil.
- Insulation value: <0.031 W/(mk) up to 2", <0.036 W/(mk) up to 5", <0.045 W/(mk) up to 12".
- Density:
Kooltherm - 15 - 66 mm: 60 kg/m³
Kooltherm - 76 - 114 mm: 80 kg/m³
- Pressure resistance:
Kooltherm - 15 - 66 mm: 0,17 N/mm²
Kooltherm - 76 - 114 mm: 0,34 N/mm²
- Temperature resistance: from -50°C to +110°C.
- Fire rating: B/ BL - s1, d0.
- Over 90% closed cell structure.
- CE Marked in accordance with BS EN 14314.
- Performance, application method and factory production control assessed and certified by KIWA.
- BDA Agrément® BAP 15-036/01/C.
- Covered by LABC EWW382.
- Insulation FM approved (Class 4924).

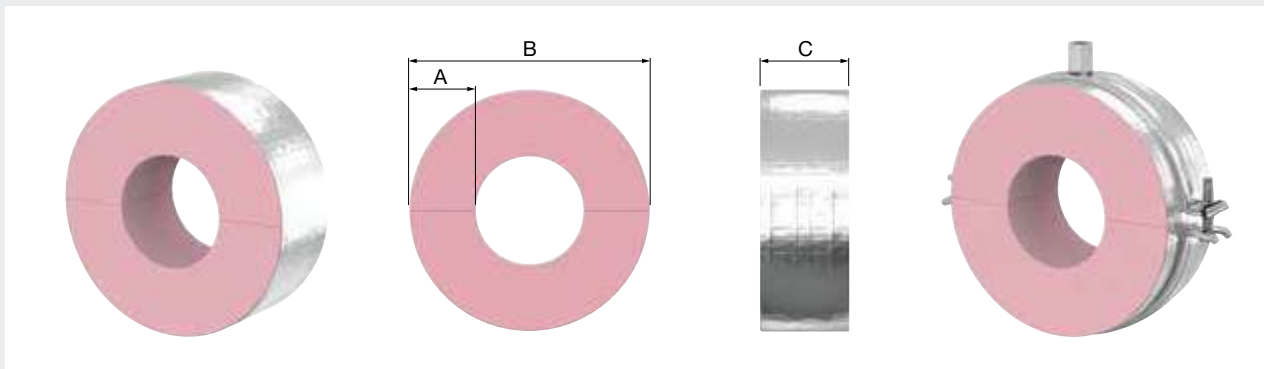


type	article number suitable clip	article number insulation	Ø pipe		max. working load [N]	dimensions [mm]			
			ext. [mm]	nom. ["]		A	B	C	
Kooltherm 30x100 - 15 mm	10-37506	10-32797	15	-	90	30	75	100	42
Kooltherm 30x100 - 22 mm	10-37507	10-32798	22	½	120	30	82	100	36
Kooltherm 30x100 - 28 mm	10-37508	10-32799	28	¾	150	30	88	100	30
Kooltherm 30x100 - 35 mm	10-37509	10-32800	35	1	190	30	95	100	27
Kooltherm 30x100 - 48 mm	10-37511	10-32802	48	1½	270	30	108	100	22
Kooltherm 30x100 - 50 mm	10-37511	10-33354	50	-	290	30	110	100	16
Kooltherm 30x100 - 54 mm	10-37512	10-32803	54	-	300	30	114	100	18
Kooltherm 30x100 - 60 mm	10-37512	10-32804	60	2	330	30	120	100	16
Kooltherm 30x100 - 66 mm	10-37513	10-32805	66	-	450	30	126	100	14
Kooltherm 30x100 - 76 mm	10-37514	10-32806	76	2½	620	30	136	100	12
Kooltherm 30x100 - 84 mm	10-37515	10-33356	84	-	690	30	144	100	9
Kooltherm 30x100 - 133 mm	10-37519	10-32810	133	-	1100	30	193	100	7
Kooltherm 30x100 - 140 mm	10-37519	10-32811	140	5	1150	30	200	100	7
Kooltherm 30x100 - 154 mm	10-37520	10-33361	154	-	1260	30	214	100	4
Kooltherm 30x100 - 159 mm	10-37521	10-32812	159	-	3000	30	219	100	6
Kooltherm 30x125 - 168 mm	10-37521	10-32813	168	6	3000	30	228	125	6
Kooltherm 30x125 - 219 mm	10-37524	10-33364	219	8	3000	30	279	125	1

Kooltherm insulation - 35 mm

Phenolic insulation blocks to combine with specified VSH FastFix clips. Use of insulation blocks will isolate the pipework from the pipe support and the surrounding environment. It will limit heat transfer from and to the pipework and prevent thermal bridging.

- Insulation thicknesses available
 - Standard/stock = 15, 20, 25, 30, 35, 40, 45, 50 mm.
 - Additional thicknesses can be manufactured i.e. 60, 63, 65, 70, 75 mm etc.
 - Faced with reinforced low vapour permeability aluminium foil.
- Insulation value:
 - < 0.03 W/(mk) up to 2",
 - < 0.03W/(mk) up to 5",
 - < 0.04W/(mk) up to 12".
- Length
 - Kooltherm < 168 mm = 100 mm
 - Kooltherm 168-32 mm = 125 mm
 - Kooltherm 323 mm & above = 200 mm
- Density:
 - Kooltherm - <76 mm: 60 kg/m³
 - Kooltherm - <114 mm: 80 kg/m³
- Pressure resistance:
 - Kooltherm - 15 - 66 mm: 0,25 N/mm²
 - Kooltherm - 76 - 114 mm: 0,4 N/mm²
- Temperature resistance: from -50°C to +110°C.
- Fire rating: B/ BL - s1, d0.
- Over 90% closed cell structure.
- CE Marked in accordance with BS EN 14314:2009+A1:2013.

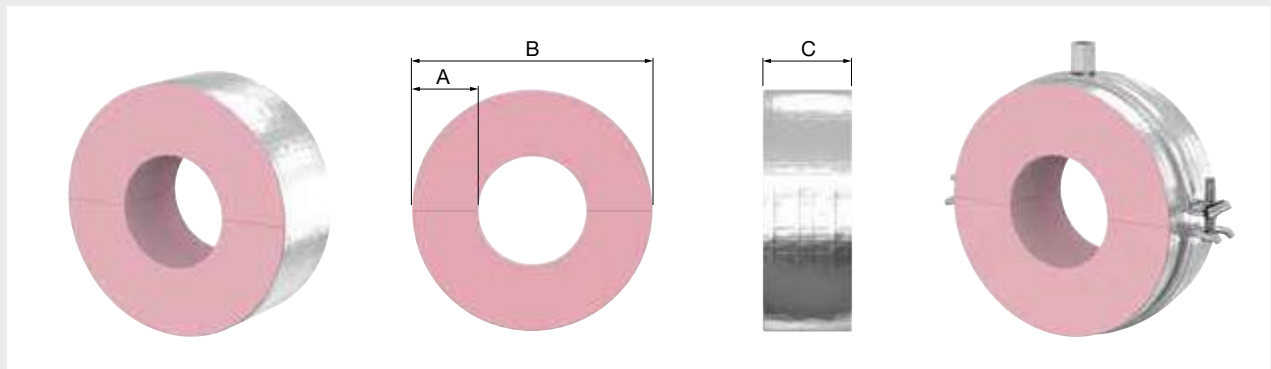


type	article number suitable clip	article number insulation	Ø pipe		max. working load [N]	dimensions [mm]			
			ext. [mm]	nom. ["]		A	B	C	
Kooltherm 35x100 - 15 mm	10-37508	10-33371	15	-	90	35	85	100	25
Kooltherm 35x100 - 28 mm	10-37510	10-33376	28	¾	150	35	98	100	25
Kooltherm 35x100 - 35 mm	10-37511	10-33378	35	1	190	35	105	100	16
Kooltherm 35x100 - 42 mm	10-37511	10-33380	42	1¼	230	35	112	100	16
Kooltherm 35x100 - 48 mm	10-37512	10-33381	48	1½	270	35	118	100	16
Kooltherm 35x100 - 66 mm	10-37514	10-33386	66	-	450	35	136	100	9
Kooltherm 35x100 - 76 mm	10-37515	10-33387	76	2½	620	35	146	100	9
Kooltherm 35x100 - 114 mm	10-37518	10-33393	114	4	940	35	184	100	4
Kooltherm 35x100 - 140 mm	10-37520	10-33397	140	5	1150	35	210	100	4
Kooltherm 35x100 - 154 mm	10-37521	10-33398	154	-	1260	35	224	100	4
Kooltherm 35x125 - 168 mm	10-37523	10-33400	168	6	3000	35	238	125	4
Kooltherm 35x125 - 273 mm	10-37526	10-33406	273	10	3000	35	343	125	1

Kooltherm insulation - 40 mm

Phenolic insulation blocks to combine with specified VSH FastFix clips. Use of insulation blocks will isolate the pipework from the pipe support and the surrounding environment. It will limit heat transfer from and to the pipework and prevent thermal bridging.

- Insulation thicknesses available
 - Standard/stock = 15, 20, 25, 30, 35, 40, 45, 50 mm.
 - Additional thicknesses can be manufactured i.e. 60, 63, 65, 70, 75 mm etc.
 - Faced with reinforced low vapour permeability aluminium foil.
- Insulation value:
 - < 0.03 W/(mk) up to 2",
 - < 0.03W/(mk) up to 5",
 - < 0.04W/(mk) up to 12".
- Length
 - Kooltherm < 168 mm = 100 mm
 - Kooltherm 168-32 mm = 125 mm
 - Kooltherm 323 mm & above = 200 mm
- Density:
 - Kooltherm - <76 mm: 60 kg/m³
 - Kooltherm - <114 mm: 80 kg/m³
- Pressure resistance:
 - Kooltherm - 15 - 66 mm: 0,25 N/mm²
 - Kooltherm - 76 - 114 mm: 0,4 N/mm²
- Temperature resistance: from -50°C to +110°C.
- Fire rating: B/ BL - s1, d0.
- Over 90% closed cell structure.
- CE Marked in accordance with BS EN 14314:2009+A1:2013.

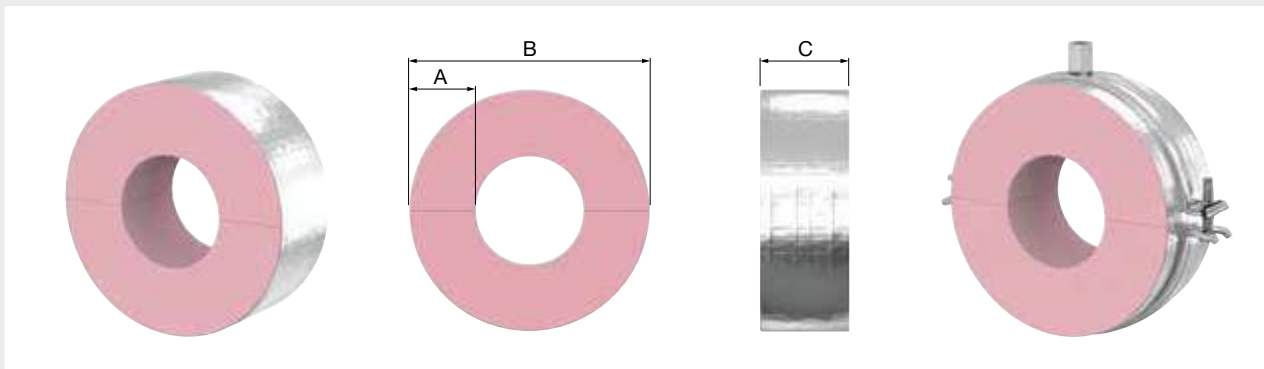


type	article number suitable clip	article number insulation	Ø pipe		max. working load [N]	dimensions [mm]			
			ext. [mm]	nom. ["]		A	B	C	
Kooltherm 40x100 - 15 mm	10-37509	10-32814	15	-	90	40	95	100	25
Kooltherm 40x100 - 22 mm	10-37510	10-32815	22	½	120	40	102	100	20
Kooltherm 40x100 - 28 mm	10-37511	10-32816	28	¾	150	40	108	100	20
Kooltherm 40x100 - 35 mm	10-37512	10-32817	35	1	190	40	115	100	20
Kooltherm 40x100 - 42 mm	10-37512	10-32818	42	1¼	230	40	122	100	16
Kooltherm 40x100 - 48 mm	10-37513	10-32819	48	1½	270	40	128	100	14
Kooltherm 40x100 - 54 mm	10-37514	10-32820	54	-	300	40	134	100	13
Kooltherm 40x100 - 60 mm	10-37515	10-32821	60	2	330	40	140	100	10
Kooltherm 40x100 - 66 mm	10-37515	10-32822	66	-	450	40	146	100	10
Kooltherm 40x100 - 76 mm	10-37516	10-32823	76	2½	620	40	156	100	10
Kooltherm 40x100 - 89 mm	10-37517	10-32824	89	3	730	40	169	100	7
Kooltherm 40x100 - 108 mm	10-37518	10-32825	108	-	900	40	188	100	8
Kooltherm 40x100 - 110 mm	10-37518	10-33419	110	-	900	40	190	100	4
Kooltherm 40x100 - 114 mm	10-37519	10-32826	114	4	940	40	194	100	8
Kooltherm 40x100 - 133 mm	10-37520	10-32827	133	-	1100	40	213	100	6
Kooltherm 40x100 - 140 mm	10-37521	10-32828	140	5	1150	40	220	100	6
Kooltherm 40x100 - 159 mm	10-37523	10-32829	159	-	3000	40	239	100	4
Kooltherm 40x125 - 168 mm	10-37523	10-32830	168	6	3000	40	248	125	4
Kooltherm 40x125 - 219 mm	10-37525	10-33425	219	8	3000	40	299	125	1
Kooltherm 40x200 - 323 mm	10-54236	10-33431	323	12	9000	40	403	200	1

Kooltherm insulation - 45 mm

Phenolic insulation blocks to combine with specified VSH FastFix clips. Use of insulation blocks will isolate the pipework from the pipe support and the surrounding environment. It will limit heat transfer from and to the pipework and prevent thermal bridging.

- Insulation thicknesses available
 - Standard/stock = 15, 20, 25, 30, 35, 40, 45, 50 mm.
 - Additional thicknesses can be manufactured i.e. 60, 63, 65, 70, 75 mm etc.
 - Faced with reinforced low vapour permeability aluminium foil.
- Insulation value:
 - < 0.03 W/(mk) up to 2",
 - < 0.03W/(mk) up to 5",
 - < 0.04W/(mk) up to 12".
- Length
 - Kooltherm < 168 mm = 100 mm
 - Kooltherm 168-32 mm = 125 mm
 - Kooltherm 323 mm & above = 200 mm
- Density:
 - Kooltherm - <76 mm: 60 kg/m³
 - Kooltherm - <114 mm: 80 kg/m³
- Pressure resistance:
 - Kooltherm - 15 - 66 mm: 0,25 N/mm²
 - Kooltherm - 76 - 114 mm: 0,4 N/mm²
- Temperature resistance: from -50°C to +110°C.
- Fire rating: B/ BL - s1, d0.
- Over 90% closed cell structure.
- CE Marked in accordance with BS EN 14314:2009+A1:2013.

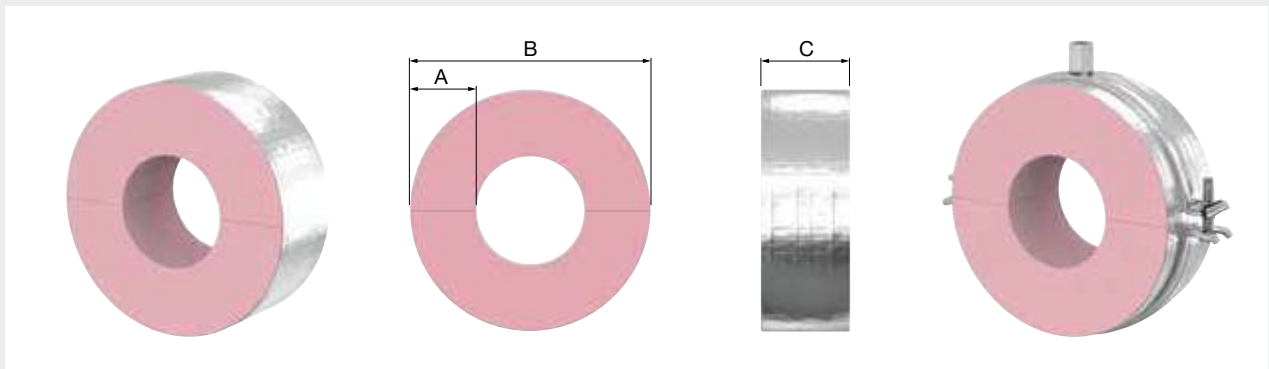


type	article number suitable clip	article number insulation	Ø pipe		max. working load [N]	dimensions [mm]			
			ext. [mm]	nom. [°]		A	B	C	
Kooltherm 45x100 - 35 mm	10-37512	10-33435	35	1	190	45	125	100	16
Kooltherm 45x100 - 48 mm	10-38283	10-33437	48	1½	270	45	138	100	9
Kooltherm 45x100 - 60 mm	10-37515	10-33439	60	2	330	45	150	100	9
Kooltherm 45x100 - 114 mm	10-37520	10-33444	114	4	940	45	204	100	4

Kooltherm insulation - 50 mm

Phenolic insulation blocks to combine with specified VSH FastFix clips. Use of insulation blocks will isolate the pipework from the pipe support and the surrounding environment. It will limit heat transfer from and to the pipework and prevent thermal bridging.

- Insulation thicknesses available
 - Standard/stock = 15, 20, 25, 30, 35, 40, 45, 50 mm.
 - Additional thicknesses can be manufactured i.e. 60, 63, 65, 70, 75 mm etc.
 - Faced with reinforced low vapour permeability aluminium foil.
- Insulation value:
 - < 0.03 W/(mk) up to 2",
 - < 0.03W/(mk) up to 5",
 - < 0.04W/(mk) up to 12".
- Length
 - Kooltherm < 168 mm = 100 mm
 - Kooltherm 168-32 mm = 125 mm
 - Kooltherm 323 mm & above = 200 mm
- Density:
 - Kooltherm - <76 mm: 60 kg/m³
 - Kooltherm - <114 mm: 80 kg/m³
- Pressure resistance:
 - Kooltherm - 15 - 66 mm: 0,25 N/mm²
 - Kooltherm - 76 - 114 mm: 0,4 N/mm²
- Temperature resistance: from -50°C to +110°C.
- Fire rating: B/ BL - s1, d0.
- Over 90% closed cell structure.
- CE Marked in accordance with BS EN 14314:2009+A1:2013.



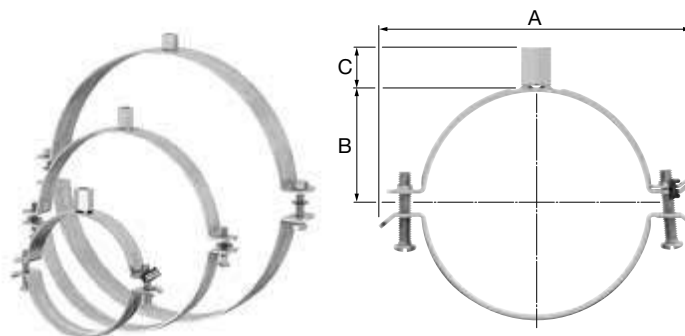
type	article number suitable clip	article number insulation	Ø pipe		max. working load [N]	dimensions [mm]			
			ext. [mm]	nom. ["]		A	B	C	
Kooltherm 50x100 - 22 mm	10-37512	10-32832	22	½	120	50	122	100	1
Kooltherm 50x100 - 25 mm	10-37512	10-33454	25	-	140	50	125	100	16
Kooltherm 50x100 - 28 mm	10-37513	10-32833	28	¾	150	50	128	100	1
Kooltherm 50x100 - 35 mm	10-37514	10-32834	35	1	190	50	135	100	1
Kooltherm 50x100 - 42 mm	10-37515	10-32835	42	1¼	230	50	142	100	1
Kooltherm 50x100 - 48 mm	10-37515	10-32836	48	1½	270	50	148	100	1
Kooltherm 50x100 - 60 mm	10-37516	10-32838	60	2	330	50	160	100	1
Kooltherm 50x100 - 89 mm	10-37518	10-32841	89	3	730	50	189	100	1
Kooltherm 50x100 - 108 mm	10-37520	10-32842	108	-	900	50	208	100	1
Kooltherm 50x100 - 114 mm	10-37520	10-32843	114	4	940	50	214	100	1
Kooltherm 50x100 - 133 mm	10-37523	10-32844	133	-	1100	50	233	100	1
Kooltherm 50x100 - 140 mm	10-37523	10-32845	140	5	1150	50	240	100	1
Kooltherm 50x125 - 168 mm	10-37524	10-32847	168	6	3000	50	268	125	1
Kooltherm 50x125 - 219 mm	10-37525	10-33467	219	8	3000	50	319	125	1

CK clips

CK clips

For mounting insulated pipework to wall and ceiling.

- Electrolytically zinc plated.
- Connection CK 0 - 18: M8/10.
- Connection CK 19 - 26: M10/12.
- CK 0 - 15: Suited with a quick-locking system and special retaining Phillips head screws.
- CK 16 - 18: Fitted with retaining rings to prevent loss of the Phillips head screws.
- CK 19 - 26: Fitted with hex nuts and bolts for high loads.



type	article number	clip int. Ø [mm]	strip dimensions [mm]	max. working load [N]	dimensions [mm]			
					A	B	C	
CK 0	10-37522	35 - 38	20 x 1.5	1000	73	20	15	50
CK 1	10-37500	41 - 44	20 x 1.5	1000	81	22	15	50
CK 2	10-37501	46 - 48	20 x 1.5	1000	85	24	15	50
CK 3	10-37502	50 - 53	20 x 1.5	1000	90	26.5	15	50
CK 4	10-37503	58 - 61	20 x 1.5	1000	98	30.5	15	50
CK 5	10-37504	64 - 67	20 x 1.5	1000	104	33.5	15	50
CK 6	10-37505	67 - 70	20 x 1.5	1000	107	35	15	50
CK 7	10-37506	73 - 76	20 x 2.0	1300	115	38	15	50
CK 8	10-37507	80 - 83	20 x 2.0	1300	122	41.5	15	50
CK 9	10-37508	84 - 89	20 x 2.0	1300	128	44.5	15	50
CK 10	10-37509	90 - 95	20 x 2.0	1300	134	47.5	15	50
CK 11	10-37510	96 - 101	20 x 2.0	1300	140	50.5	15	50
CK 12	10-37511	109 - 115	20 x 2.5	1300	155	57.5	15	50
CK 13	10-37512	118 - 125	20 x 2.5	1300	165	62.5	15	25
CK 14	10-37513	121 - 127	20 x 2.5	1300	167	63.5	15	25
CK 15	10-37514	131 - 136	20 x 2.5	1300	177	68	15	25
CK 16	10-37515	142 - 150	20 x 2.5	2150	192	75	15	25
CK 17	10-37516	158 - 163	20 x 2.5	2150	205	81.5	15	25
CK 18	10-37517	164 - 169	20 x 2.5	2150	211	84.5	15	25
CK 19	10-37518	183 - 189	40 x 2.5	3000	245	94.5	18	25
CK 20	10-37519	194 - 202	40 x 2.5	3000	263	101	18	25
CK 21	10-37520	204 - 211	40 x 2.5	3000	270	105.5	18	25
CK 22	10-37521	222 - 229	40 x 2.5	3000	288	114.5	18	25
CK 23	10-37523	235 - 260	40 x 2.5	3000	319	132.5	18	10
CK 24	10-37524	260 - 285	40 x 2.5	3000	344	145	18	10
CK 25	10-37525	295 - 325	40 x 2.5	3000	384	165	18	10
CK 26	10-37526	339 - 375	40 x 2.5	3000	434	190	18	10



VSH FastFix

wall mounting clips



wall mounting clips for steel pipes

BM wall clips are designed for mounting threaded pipes, sprinkler pipes and thin-walled steel pipes to the wall and are made up of three parts, namely the one-piece clip, the sleeve, and a nut. The sleeve has three characteristics. The leading edge is flared to permit easy location. The trailing edge is domed and acts as a travel stop for the nut. Finally, its overall conical shape ensure secure fixture. Thanks to these technical features, BM clips are very easy to mount correctly.

- One-piece clip with fixing materials.
- The fixing is covered by the clip so that it is not visible.
- Rigid fastening.
- Conical sleeve with locating edge for firm clamping.
- BM wall clips are compatible with pipe sizes as per DIN 2448.
- Safety margin for minimum breaking load (V) = 3.
- Clip: Sendzimir galvanized.
- Sleeve, nut and wood screw: electrolytically zinc plated.

BM-HK Wall clips

- Execution HK: **with short wood screw and plastic plug.**
- Plug sizes:
BM8 Ø 10 x 50
BM10 Ø 12 x 60
- Dowel screws:
HO 8 x 80
HO 10 x 50



type	article number	Ø pipe		connection	max. working load [N]	strip dimensions [mm]	torx	
		nom. ["]	ext. [mm]					
BM-HK M8 x 12	10-36110	-	12	M8	1300	10 x 1.2	6	10
BM-HK M8 x 15	10-36112	-	15	M8	1300	10 x 1.2	6	10
BM-HK M8 x 1/2 - 22	10-36102	1/2	22	M8	1300	10 x 1.2	6	10
BM-HK M8 x 3/4	10-36103	3/4	26.9	M8	1300	10 x 1.2	6	10
BM-HK M8 x 1	10-36104	1	33.7	M8	1300	10 x 1.2	6	10
BM-HK M8 x 28	10-36118	-	28	M8	1300	10 x 1.2	6	10
BM-HK M8 x 35	10-36120	-	35	M8	1300	10 x 1.2	6	10

wall mounting clips for copper pipes

BMK wall clips are designed for mounting copper pipes to the wall and are made up of three parts, namely the one-piece clip, the sleeve, and a nut. The sleeve has three characteristics. The leading edge is flared to permit easy location. The trailing edge is domed and acts as a travel stop for the nut. Finally, its overall conical shape ensure secure fixture. Thanks to these technical features, BM clips are very easy to mount correctly.

- One-piece clip with fixing materials.
- The fixing is covered by the clip so that it is not visible.
- Rigid fastening.
- Conical sleeve with locating edge for firm clamping.
- BM wall clips are compatible with pipe sizes as per EN 1057.
- Safety margin for minimum breaking load (V) = 3.
- Clip: Copper.
- Sleeve, nut and wood screw: Electrolytically zinc plated.

BMK-HK Wall clips

- **With short wood screw and plastic plug.**
- Plug sizes:
BMK 8: Ø 10 x 50
BMK 10: Ø 12 x 60
- Dowel screws:
BMK 8: HO 8 x 80
BMK 10: HO 10 x 50



type	article number	ext. pipe Ø [mm]	connection	max. working load [N]	strip dimensions [mm]	torx	
BMK-HK M8 x 12*	10-38110	12	M8	1000	10 x 1.2	6	10
BMK-HK M8 x 15*	10-38112	15	M8	1000	10 x 1.2	6	10
BMK-HK M8 x 22*	10-38116	22	M8	1000	10 x 1.2	6	10
BMK-HK M8 x 28*	10-38118	28	M8	1000	10 x 1.2	6	10
BMK-HK M8 x 35*	10-38120	35	M8	1000	10 x 1.2	6	10

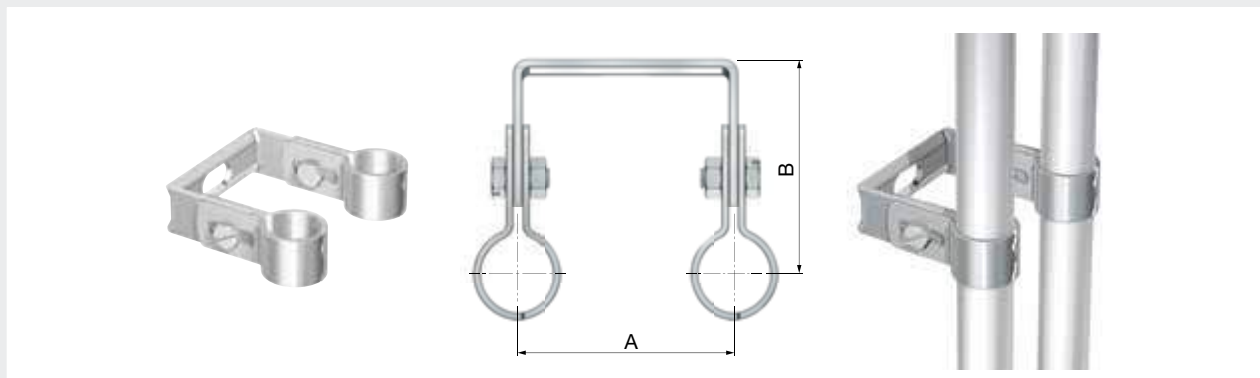
wall mounting clips for double steel pipes

DP clips are designed for mounting steel pipes and thin walled steel pipes to the wall. The double pipe clips are especially designed for mounting return and supply pipework side by side.

- Compatible with pipe sizes as per DIN 2448 and DIN EN 1057.
- Provided with a reinforced backplate with a slot of 18 x 8 mm.
- Depth adjustable and easy adjustment with spanner or screwdriver.

DP Double Pipe clips

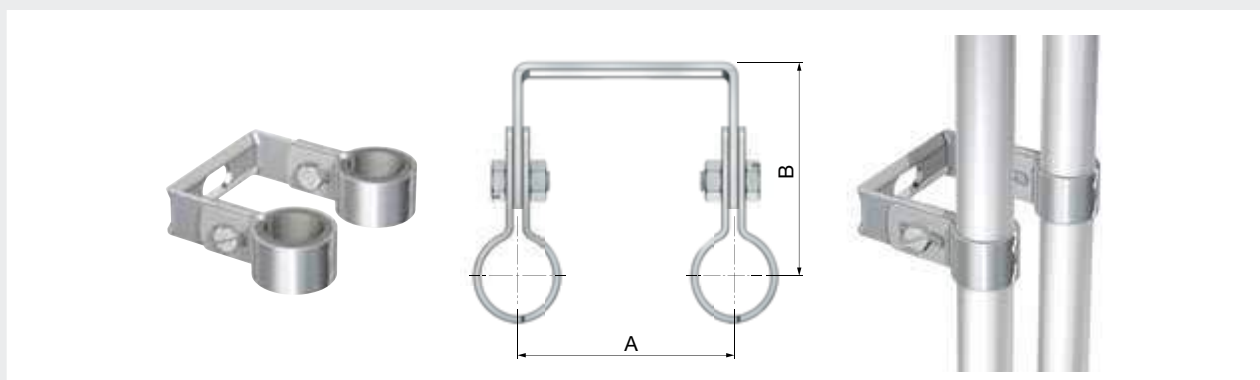
- Without neoprene lining.



type	article number	ext. [mm]	Ø pipe nom. ["]	thin-w. steel pipe outer Ø [mm]	dimensions [mm]		
					A	B	
DP 15 - 60 / 66 - 49	10-38017	16	-	15	60	66 - 49	10
DP ½ - 60 / 69 - 54	10-38019	21.3	½	22	60	69 - 54	10
DP ¾ - 60 / 68 - 57	10-38021	26.9	¾	28	60	68 - 57	10

DP Double Pipe clips with inlay

- With noise suppression neoprene lining glued in clip.
- Colour of neoprene: grey.



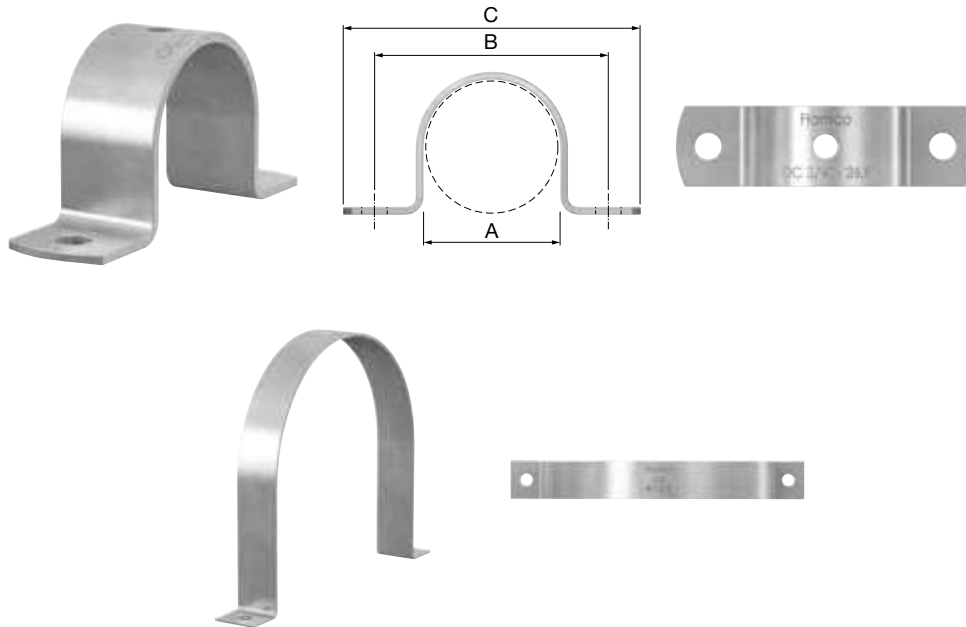
type	article number	ext. [mm]	Ø pipe nom. ["]	thin-w. steel pipe outer Ø [mm]	dimensions [mm]		
					A	B	
DP 15	10-38030	16	-	15	60	54 - 69	10
DP ½	10-38031	21.3	½	22	60	57 - 68	10

wall mounting clips for gas and potable water pipes

OC Omega Clip

Extensive and rigid clip range, especially designed for quick and easy wall mounting without gap.

- Electrolytically zinc plated.



type	article number	Ø pipe		strip dimensions [mm]	suitable thread	dimensions [mm]			
		nom. ["]	ext. [mm]			A	B	C	
OC 1/4	10-51390	1/4	13.5	20 x 2	M6	13.5	37.5	53.5	50
OC 3/8	10-51391	3/8	17.2	20 x 2	M6	17.2	41.2	57.2	50
OC 1/2	10-51392	1/2	21.3	20 x 2	M6	21.3	45.3	61.3	50
OC 3/4	10-51393	3/4	26.9	20 x 2	M6	26.9	50.9	66.9	50
OC 1	10-51394	1	33.7	20 x 2	M6	33.7	57.7	73.7	50
OC 1 1/4	10-51395	1 1/4	42.4	20 x 2	M6	42.4	66.4	82.4	50
OC 1 1/2	10-51396	1 1/2	48.3	20 x 2	M6	48.3	72.3	88.3	50
OC 2	10-51397	2	60.3	20 x 2	M6	60.3	84.3	100.3	50
OC 67	10-51550	-	67	25 x 3	M8	67.0	96.0	121.0	50
OC 75 - 2 1/2	10-51551	2 1/2	75	25 x 3	M8	75.0	113.0	145.0	50
OC 82	10-51552	-	82	25 x 3	M8	82.0	120.0	152.0	50
OC 90 - 3	10-51553	3	90	25 x 3	M8	90.0	128.0	160.0	50
OC 100 - 3 1/2	10-51554	3 1/2	100	25 x 3	M8	100.0	138.0	170.0	50
OC 108	10-51555	-	108	25 x 3	M8	108.0	146.0	178.0	50
OC 115 - 4	10-51556	4	115	25 x 3	M8	115.0	153.0	185.0	50
OC 140 - 5	10-51558	5	140	25 x 3	M10	140.0	164.0	196.0	50
OC 148	10-51559	-	148	25 x 3	M10	148.0	186.0	218.0	50
OC 155	10-51560	-	155	25 x 3	M10	155.0	193.0	225.0	50
OC 168 - 6	10-51561	6	168	25 x 3	M10	168.0	205.0	237.0	50
OC 179	10-51562	-	179	25 x 3	M10	179.0	217.0	249.0	50
OC 190	10-51563	-	190	38 x 3	M10	190.0	228.0	260.0	50
OC 205	10-51564	-	205	38 x 3	M10	205.0	243.0	275.0	50
OC 219 - 8	10-51565	8	219	38 x 3	M10	219.0	257.0	289.0	50
OC 230	10-51566	-	230	38 x 3	M10	230.0	268.0	300.0	50
OC 241	10-51567	-	241	38 x 4	M16	241.0	291.0	332.0	50
OC 263	10-51568	-	263	38 x 4	M16	263.0	313.0	354.0	50
OC 273 - 10	10-51569	10	273	38 x 4	M16	273.0	323.0	364.0	50

type	article number	Ø pipe		strip dimensions [mm]	suitable thread	dimensions [mm]			
		nom. ["]	ext. [mm]			A	B	C	
OC 295	10-51570	-	295	38 x 4	M16	295.0	345.0	386.0	50
OC 323 - 12	10-51571	12	323	38 x 4	M16	323.0	373.0	414.0	50
OC 356 - 14	10-51572	14	356	50 x 4	M20	356.0	406.0	447.0	50
OC 374	10-51573	-	374	50 x 4	M20	374.0	424.0	465.0	50
OC 406 - 16	10-51574	16	406	50 x 4	M20	406.0	456.0	497.0	50
OC 432	10-51575	-	432	50 x 4	M20	432.0	482.0	523.0	50
OC 456 - 18	10-51576	18	456	50 x 4	M20	456.0	506.0	547.0	50
OC 482	10-51577	-	482	50 x 4	M20	482.0	532.0	573.0	50
OC 508 - 20	10-51578	20	508	50 x 4	M20	508.0	558.0	599.0	50



VSH FastFix

sprinkler hangers & clips

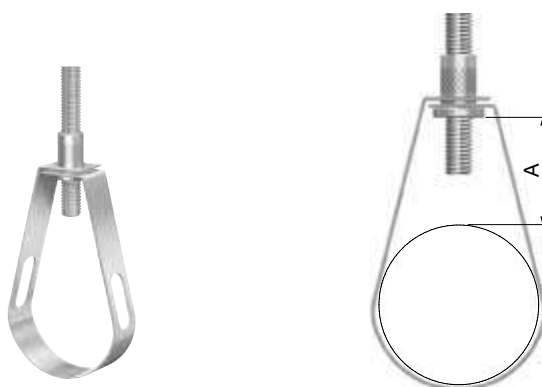


hangers & clips for sprinkler systems•

BCS Pipe Hangers

BCS pipe hangers are designed for mounting sprinkler system pipes to the ceiling.

- Clip: Sendzimir galvanized (8": Electrolytically zinc plated).
Nut: Electrolytically zinc plated.
- Support nut M10 up to 4", M12 up to 8".
- Mounting without any tools.
- Adjustable in height.
- **UL/FM** Approved.



type	article number	Ø pipe		connec- tion	approval		max. working load* [N]	adjustable height [mm]	slotted hole	strip dimensions [mm]	
		ext. [mm]	nom. ["]		UL	FM					
BCS M10 x ¾	10-35770	26.9	¾	M10	4	4	1512	35	-	20 x 1	100
BCS M10 x 1	10-35771	33.7	1	M10	4	4	1824	35	-	20 x 1	100
BCS M10 x 1¼	10-35772	42.4	1¼	M10	4	4	1913	35	-	20 x 1	100
BCS M10 x 1½	10-35773	48.3	1½	M10	4	4	2313	35	-	20 x 1	100
BCS M10 x 2	10-35774	60.3	2	M10	4	4	2815	35	-	20 x 1	100
BCS M10 x 2½	10-35775	76.1	2½	M10	4	4	4181	40	27 x 12	25 x 1.25	100
BCS M10 x 3	10-35776	88.9	3	M10	4	4	4715	40	27 x 12	25 x 1.25	50
BCS M10 x 3½	10-35777	101.6	3½	M10	4	4	5583	49	27 x 12	25 x 1.5	50
BCS M10 x 4	10-35778	114.3	4	M10	4	4	6561	60	27 x 12	25 x 1.5	50
BCS M12 x 5	10-35779	139.7	5	M12	4	4	8896	73	60 x 15	30 x 2	50
BCS M12 x 6	10-35780	168.9	6	M12	4	4	11632	83	60 x 15	30 x 2	50
BCS M12 x 8	10-35781	219.1	8	M12	4	4	16903	85	60 x 15	30 x 3	25

* Min. breaking load according to FM regulations.



RSF clips

RSF clips are designed for heavy duty applications and fixed point constructions. The thickness of the material and the reinforcement ribs make the most rigid assemblies possible.

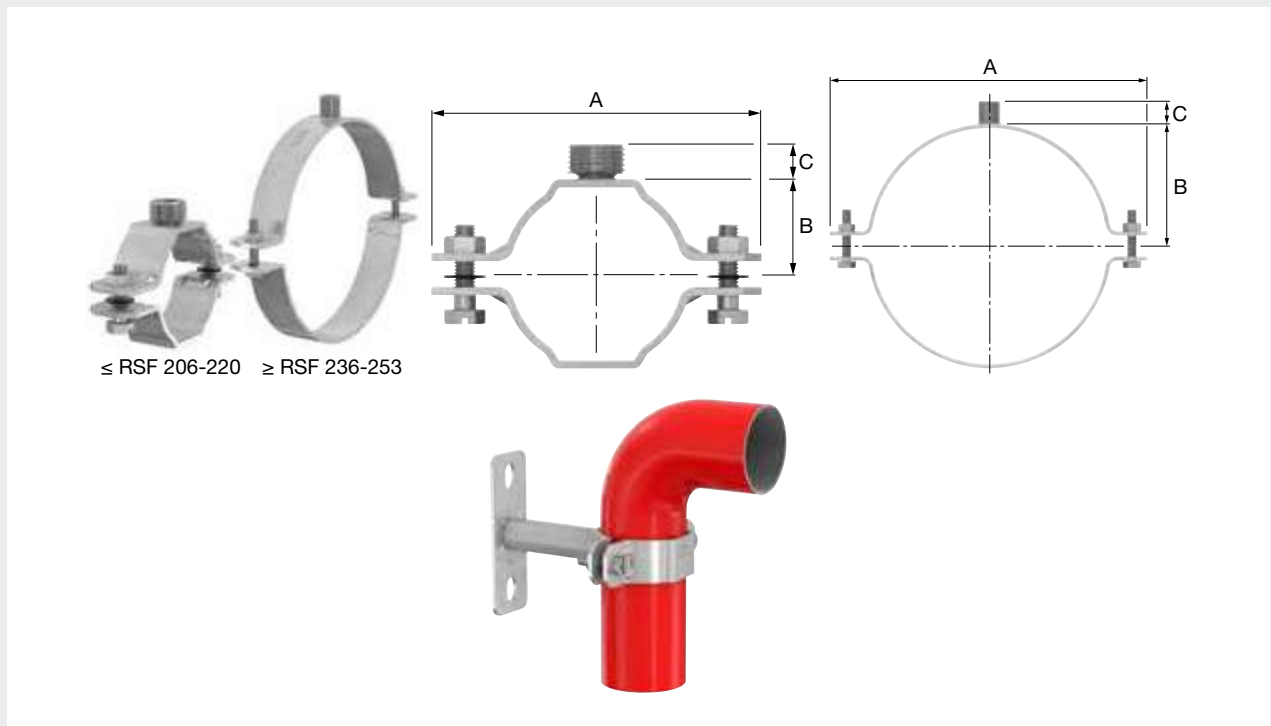
- Complete and comprehensive range.
- A special combinut with outer and inner thread makes a broad range of applications possible in combination with threaded rods and pipes.
- Electrolytically zinc plated.
- Execution:

RSF $G\frac{1}{2}$ M (BSP) / M10, $G\frac{1}{2}$ M (BSP) / M12 and $G\frac{3}{4}$ M (BSP) / M16:

- Special welded-on nuts on the clip flanges allow high torque on the fixing bolts and permit heavy loads on the clip whilst easing installation.
- Bolt with retaining ring.
- The head of the bolt has a slot, a Pozidriv 2 (PZ2) and hexagon for fast installation with a flat or cross-head screwdriver or a spanner.

RSF $G\frac{3}{4}$ M (BSP) / M12/16:

- Equipped with two hexagon bolts.



type	article number	Ø pipe		strip dimensions [mm]	connection	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
RSF $\frac{1}{2}$ M/M10 x 13,5 - 18	10-54201	13.5 - 18.9	$\frac{1}{4} + \frac{3}{8}$	30 x 3.0	$G\frac{1}{2}$ " M/M10	4000	74	12.0	12	50
RSF $\frac{1}{2}$ M/M10 x 19 - 23	10-54202	19 - 23.9	$\frac{1}{2}$	30 x 3.0	$G\frac{1}{2}$ " M/M10	4000	79	14.5	12	50
RSF $\frac{1}{2}$ M/M10 x 24 - 28	10-54203	24 - 28.9	$\frac{3}{4}$	30 x 3.0	$G\frac{1}{2}$ " M/M10	4000	84	17.0	12	50
RSF $\frac{1}{2}$ M/M10 x 29 - 33	10-54204	29 - 33.9	1	30 x 3.0	$G\frac{1}{2}$ " M/M10	4000	89	18.5	12	50
RSF $\frac{1}{2}$ M/M10 x 34 - 39	10-54205	34 - 39.9	-	30 x 3.0	$G\frac{1}{2}$ " M/M10	4000	95	22.5	12	50
RSF $\frac{1}{2}$ M/M10 x 40 - 44	10-54206	40 - 44.9	$1\frac{1}{4}$	30 x 3.0	$G\frac{1}{2}$ " M/M10	4000	100	25.0	12	50
RSF $\frac{1}{2}$ M/M10 x 45 - 49	10-54207	45 - 49.9	$1\frac{1}{2}$	30 x 3.0	$G\frac{1}{2}$ " M/M10	4000	105	27.5	12	50
RSF $\frac{1}{2}$ M/M10 x 50 - 55	10-54208	50 - 55.9	-	30 x 3.0	$G\frac{1}{2}$ " M/M10	4000	111	30.5	12	25
RSF $\frac{1}{2}$ M/M10 x 56 - 61	10-54209	56 - 61.9	2	30 x 3.0	$G\frac{1}{2}$ " M/M10	4000	117	33.5	12	25
RSF $\frac{1}{2}$ M/M10 x 62 - 68	10-54210	62 - 68.9	-	30 x 3.0	$G\frac{1}{2}$ " M/M10	4000	124	37.0	12	25
RSF $\frac{1}{2}$ M/M10 x 69 - 76	10-54211	69 - 76.9	$2\frac{1}{2}$	30 x 3.0	$G\frac{1}{2}$ " M/M10	4000	132	41.0	12	25
RSF $\frac{1}{2}$ M/M10 x 77 - 84	10-54212	77 - 84.9	-	30 x 3.0	$G\frac{1}{2}$ " M/M10	4000	140	45.0	12	25
RSF $\frac{1}{2}$ M/M10 x 85 - 91	10-54213	85 - 91.9	3	40 x 4.0	$G\frac{1}{2}$ " M/M10	5000	159	49.5	12	25
RSF $\frac{1}{2}$ M/M10 x 92 - 98	10-54214	92 - 98.9	-	40 x 4.0	$G\frac{1}{2}$ " M/M10	5000	166	53.0	12	25
RSF $\frac{1}{2}$ M/M10 x 99 - 105	10-54215	99 - 105.9	-	40 x 4.0	$G\frac{1}{2}$ " M/M10	5000	173	56.5	12	25

type	article number	Ø pipe		strip dimensions [mm]	connection	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
RSF ½ M/M10 x 106 - 114	10-54216	106 - 114.9	4	40 x 4.0	G½" M/M10	5000	182	61.0	12	20
RSF ½ M/M12 x 115 - 122	10-54217	115 - 122.9	-	40 x 4.0	G½" M/M12	5000	190	65.0	12	20
RSF ½ M/M12 x 123 - 130	10-54218	123 - 130.9	-	40 x 4.0	G½" M/M12	5000	198	69.0	12	20
RSF ½ M/M12 x 131 - 139	10-54219	131 - 139.9	5	40 x 4.0	G½" M/M12	5000	207	73.5	12	20
RSF ½ M/M12 x 140 - 148	10-54220	140 - 148.9	-	40 x 4.0	G½" M/M12	5000	216	78.0	12	20
RSF ½ M/M12 x 149 - 157	10-54221	149 - 157.9	-	40 x 4.0	G½" M/M12	5000	225	82.5	12	20
RSF ½ M/M12 x 158 - 166	10-54222	158 - 166.9	6	40 x 4.0	G½" M/M12	5000	234	87.0	12	20
RSF ½ M/M12 x 167 - 179	10-54223	167 - 179.9	-	40 x 4.0	G½" M/M12	5000	247	93.5	12	20
RSF ¾ M/M16 x 180 - 192	10-54224	180 - 192.9	-	40 x 4.0	G¾" M/M16	5000	260	100.0	16	10
RSF ¾ M/M16 x 193 - 205	10-54225	193 - 205.9	-	40 x 4.0	G¾" M/M16	5000	273	106.5	16	10
RSF ¾ M/M16 x 206 - 220	10-54226	206 - 220.9	8	40 x 4.0	G¾" M/M16	5000	288	114.0	16	10
RSF ¾ M/M16 x 221 - 235	10-54246	221.0 - 235.0	-	40 x 4.0	G¾" M/M16	5000	303	121.5	16	10
RSF ¾ M/M12/16 x 236 - 253	10-54227	236 - 253.9	-	50 x 5.0	G¾" M/M12/16	9000	330	133.0	26	1
RSF ¾ M/M12/16 x 254 - 273	10-54228	254 - 273.9	10	50 x 5.0	G¾" M/M12/16	9000	348	142.0	26	1
RSF ¾ M/M12/16 x 274 - 286	10-54229	274 - 286.9	-	50 x 5.0	G¾" M/M12/16	9000	361	148.0	26	1
RSF ¾ M/M12/16 x 287 - 305	10-54230	287 - 305.9	-	50 x 5.0	G¾" M/M12/16	9000	380	158.0	26	1
RSF ¾ M/M12/16 x 306 - 324	10-54231	306 - 324.9	12	50 x 5.0	G¾" M/M12/16	9000	399	167.0	26	1
RSF ¾ M/M12/16 x 325 - 337	10-54232	325 - 337.9	-	50 x 5.0	G¾" M/M12/16	9000	412	174.0	26	1
RSF ¾ M/M12/16 x 338 - 356	10-54233	338 - 356.9	14	50 x 5.0	G¾" M/M12/16	9000	431	183.0	26	1
RSF ¾ M/M12/16 x 357 - 369	10-54234	357 - 369.9	-	50 x 5.0	G¾" M/M12/16	9000	444	190.0	26	1
RSF ¾ M/M12/16 x 370 - 387	10-54235	370 - 387.9	-	50 x 5.0	G¾" M/M12/16	9000	462	199.0	26	1
RSF ¾ M/M12/16 x 388 - 406	10-54236	388 - 406.9	16	50 x 5.0	G¾" M/M12/16	9000	481	208.0	26	1



VSH FastFix

mounting rails & accessories



VSH FastFix rail

VSH FastFix rail is exceptionally versatile when it comes to one or more suspensions or wall fixings. These can be achieved quickly and skilfully whilst several suspensions can be mounted alongside each other on one rail. VSH FastFix rails are available in several types with differing strength characteristics. Rail accessories, such as sliding nuts and hammer head bolts make mounting easy, and can be adjusted after installation. A comprehensive system giving excellent results - fast!

R VSH FastFix Rail

- Material: St 02 Z 275 NA. as per DIN 17162 TL. 1.
- Easy and quick mounting.
- With slotted holes for adjustable mounting.
- Safety margin for minimal breaking load (V) = 3.

Independently tested and certified according to the high safety and quality standards of the RAL Quality Assurance Association for pipe supports (RAL Gütegemeinschaft Rohrbefestigung). Order in required number of metres.



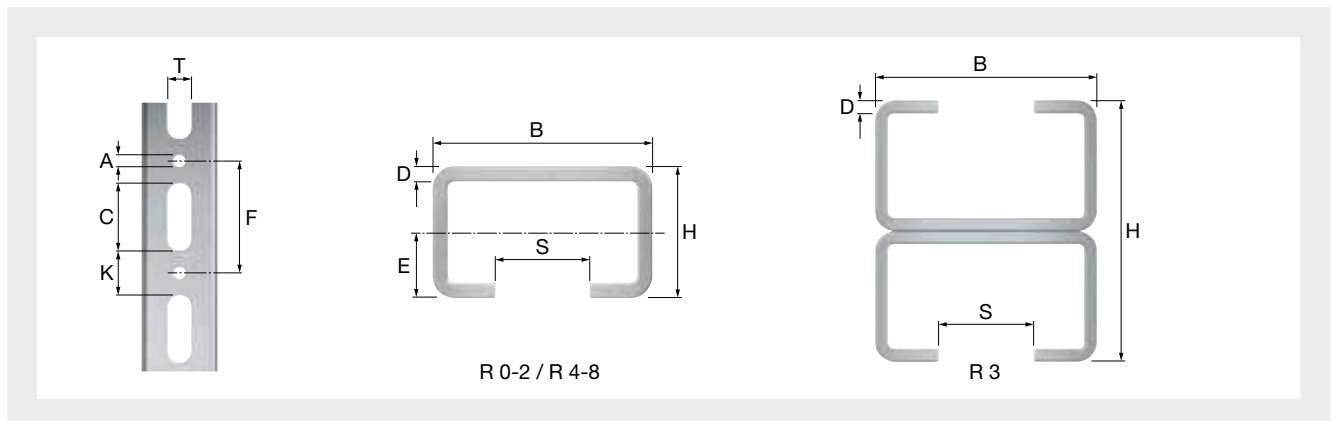
type	article number (priced per metre)	stock length [m]	Ø [cm²]	point load [N]		Mb [Ncm]*	Ix [cm⁴]	Wx [cm³]	Mass [kg/m]	
				max. working load	rupture load					
R0 Sendzimir zinc-plated	10-50020	2	0.86	2000	6000	6850	0.388	0.428	0.66	520 m
R1 Sendzimir zinc-plated**	10-50010	2	1.09	2000	6000	6140	0.315	0.394	0.85	520 m
R1 Sendzimir zinc-plated**	10-50310	3	1.09	2000	6000	6140	0.315	0.394	0.85	780 m
R1 Sendzimir zinc-plated**	10-50060	6	1.09	2000	6000	6140	0.315	0.394	0.85	1200 m
R1 Black coated (RAL 9005)**	10-50000	2	1.09	2000	6000	6140	0.315	0.394	0.85	520 m
R2 Sendzimir zinc-plated**	10-50011	2	1.45	2500	7500	10473	0.705	0.672	1.27	440 m
R2 Sendzimir zinc-plated**	10-50311	3	1.45	2500	7500	10473	0.705	0.672	1.27	660 m
R2 Sendzimir zinc-plated**	10-50061	6	1.45	2500	7500	10473	0.705	0.672	1.27	720 m
R2 Black coated (RAL 9005)**	10-50001	2	1.45	2500	7500	10473	0.705	0.672	1.27	440 m
R3 Sendzimir zinc-plated	10-50012	2	2.91	2500	7500	35000	4.040	2.019	2.54	240 m
R4 Sendzimir zinc-plated	10-50013	2	2.92	2500	7500	49000	7.139	3.080	2.35	352 m
R4 Sendzimir zinc-plated	10-50313	3	2.92	2500	7500	47700	6.914	2.981	2.35	480 m
R4 Sendzimir zinc-plated	10-50014	4	2.92	2500	7500	47700	6.914	2.981	2.35	384 m
R6 Sendzimir zinc-plated	10-50017	2	4.57	3000	9000	100000	19.004	6.295	3.60	208 m
R6 Sendzimir zinc-plated	10-50027	3	4.57	3000	9000	98300	18.548	6.144	3.60	208 m
R6 Sendzimir zinc-plated	10-50037	6	4.57	3000	9000	98300	18.548	6.144	3.60	240 m
R7 Sendzimir zinc-plated**	10-50029	2	2.46	2000	6000	41500	5.381	2.605	1.98	456 m
R7 Sendzimir zinc-plated**	10-50019	3	2.46	2000	6000	40613	5.381	2.606	1.98	684 m
R7 Sendzimir zinc-plated**	10-50039	6	2.46	2000	6000	40613	5.381	2.606	1.98	504 m
R8 Sendzimir zinc-plated	10-50218	2	1.50	1500	4500	14600	0.970	0.915	1.32	304 m
R8 Sendzimir zinc-plated	10-50318	3	1.50	1500	4500	14400	0.957	0.900	1.32	456 m

* Maximum point load.

** Independently tested and certified according to the high safety and quality standards of the RAL Quality Assurance Association for pipe supports (RAL Gütegemeinschaft Rohrbefestigung).



Dimensions R VSH FastFix Rail



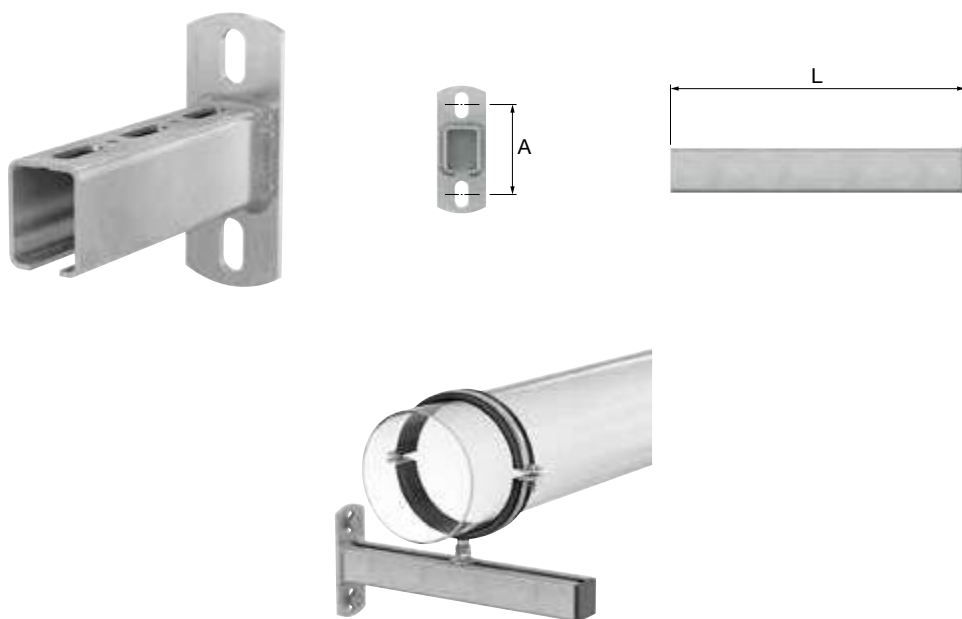
type	dimensions [mm]									
	H	B	A	C	D	E	F	K	S	T
R0	18	28.0	5,3	20	1.25	9.0	50	30	14.0	8.5
R1	15	30.5	9	30	2.00	8.0	50	20	14.5	10.5
R2	20	34.0	9	30	2.40	10.5	50	20	14.5	10.5
R3	40	34.0	-	30	2.40	-	50	20	14.5	10.5
R4	46	35.0	9	30	2.50	23.2	50	20	14.5	13.5
R6	60	40.0	9	30	3.00	30.2	50	20	14.5	13.5
R7	41	41.0	9	30	2.00	20.7	50	20	14.5	13.5
R8	21	41.0	9	30	1.80	10.6	50	20	14.5	13.5

rail consoles

R . x... rail console

For suspension or support directly against a wall.

- Electrolytically zinc plated.
- Stable fastening.



type	article number	VSH FastFix Rail	A	dimensions [mm]			max. load at end point (L) [N]	
				L	base plate [mm]	slotted hole		
R1 x 150	10-71665	R1	80	150	115 x 40	11 x 22	400	1
R1 x 200	10-71670	R1	80	200	115 x 40	11 x 22	300	1
R1 x 300	10-71666	R1	80	300	115 x 40	11 x 22	200	1
R1 x 400	10-71667	R1	80	400	115 x 40	11 x 22	150	1
R2 x 200	10-71675	R2	80	200	115 x 40	11 x 22	500	1
R4 x 150	10-71680	R4	90	150	130 x 50	13 x 26	3000	1
R4 x 250	10-71682	R4	90	250	130 x 50	13 x 26	1800	1
R4 x 350	10-71684	R4	90	350	130 x 50	13 x 26	1250	1
R6 x 480	10-71690	R6	134	480	200 x 100	13 x 26	2000	1
R6 x 750	10-71692	R6	134	750	200 x 100	13 x 26	1250	1
R7 x 200	10-71694	R7	90	200	130 x 50	13 x 26	2000	1
R7 x 300	10-71695	R7	90	300	130 x 50	13 x 26	1250	1
R7 x 400	10-71696	R7	90	400	130 x 50	13 x 26	1000	1
R7 x 500	10-71697	R7	90	500	130 x 50	13 x 26	750	1
R7 x 600	10-71698	R7	90	600	130 x 50	13 x 26	500	1
R7 x 700*	10-71699	R7	440	700	490 x 44	13 x 30	400	1

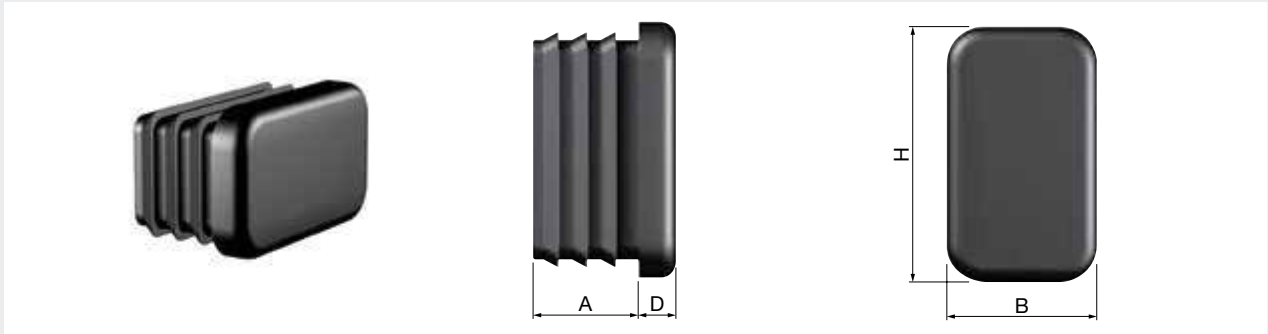
* With shore.

rail end caps

RD rail end cap

For a neat finish to VSH FastFix rail R1-8 and rail consoles. (For a neat finish to VSH FastFix rail R3, we advise two RD 2 rail end caps.)

- Black plastic.
- Easy to fit and self-securing.



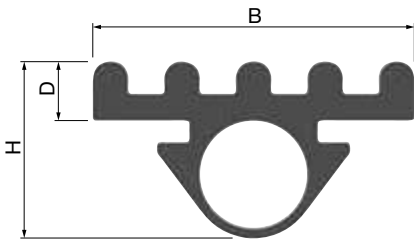
type	article number	suitable for rail	dimensions [mm]				
			A	B	D	H	
RD 1	10-50501	R1	12	15	5	30	100
RD 2	10-50502	R2 / R3	12	20	5	35	100
RD 4	10-50504	R4	14	35	5	46	100
RD 6	10-50506	R6	14	41	5	60	100
RD 7	10-50507	R7	14	40	5	40	100
RD 8	10-50508	R8	14	20	5	40	100

noise-suppression strips

Suitable for VSH FastFix rail and threaded rods.

- Rubber: EPDM.
- At normal frequency and pressure range, noise suppression 20 dB(A).
- Suitable for temperatures from -40°C up to +120°C.
- Electrical values: specific resistance: $2 \times 10^9 \Omega\text{cm}^2$.
- Surface resistance: $2 \times 10^9 \Omega$.
- Breaking elongation: 400%.
- Tensile strength: 500 N/cm².
- Impact resilience: 35%.

SR 4 Strips



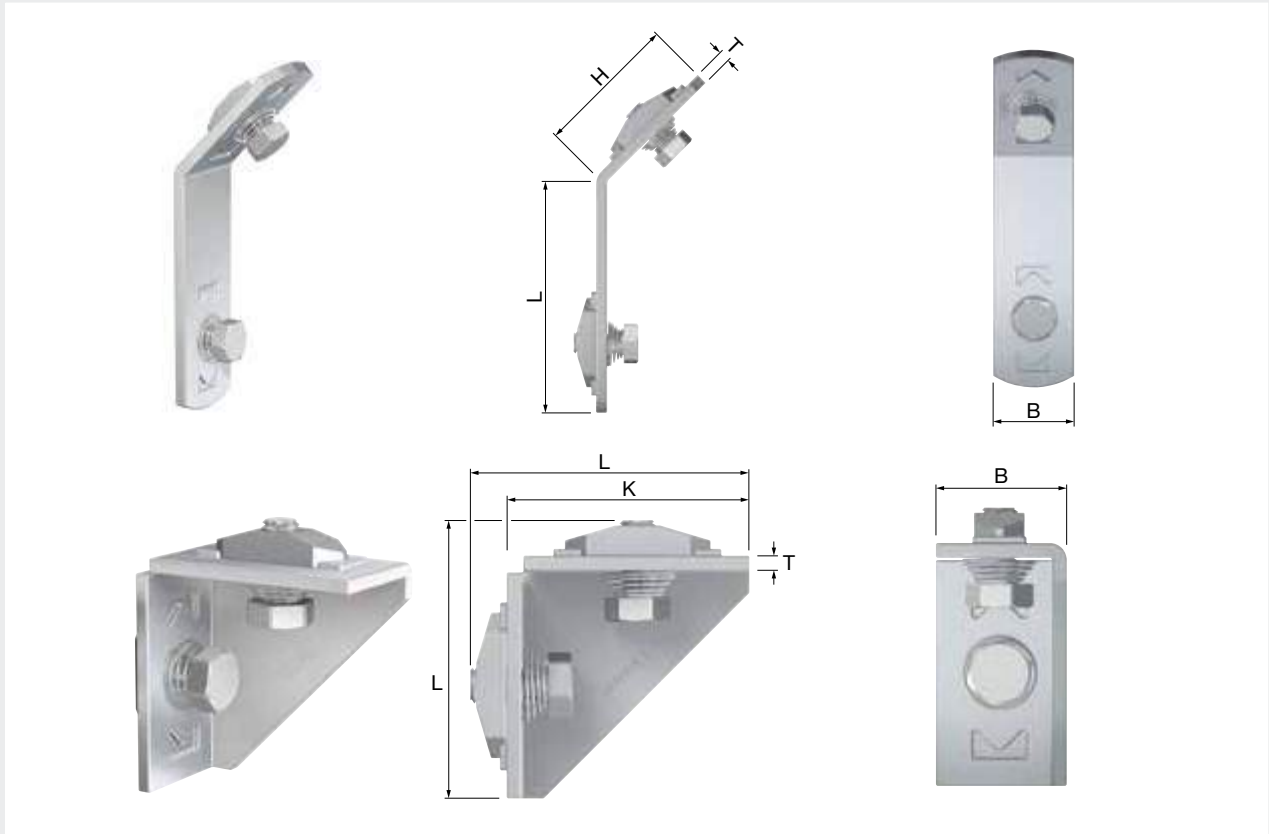
type	article number	dimensions [mm]			suitable for	
		B	H	D		
SR 4	10-71114	30	16.5	7	threaded rod M8 / Rail R1 - R8	20 m

mounting angles

ClickConnection RH

For VSH FastFix rail R0 – 8.

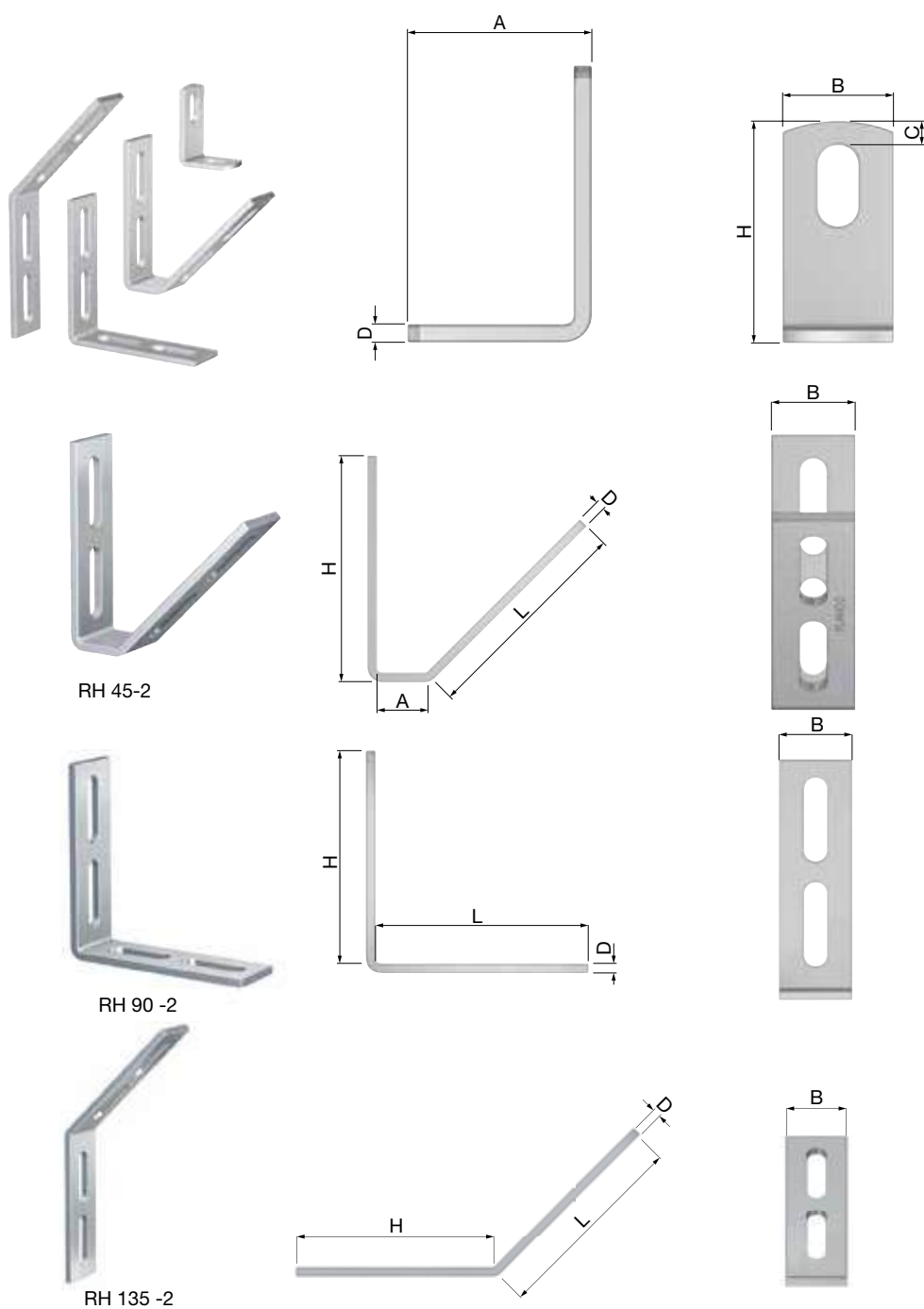
- Easy mounting by pushing and turning the unit in the rail for 45° clockwise.
- Reduced installation time.
- No loose parts like studs, washers and nuts.
- Electrolytically zinc plated.
- Maximum torque: 35 Nm
- Safety margin for minimum breaking load (V) = 3.



type	article number	max. working load [N]		dimensions [mm]					
		tensile	shear	L	K	B	T	H	
ClickConnection RH 45°	10-71800	3000	1000	100	-	35	5	60	25
ClickConnection RH 90°	10-71801	3000	1000	73	65	35	4	-	25

RH Rail Angle

- Electrolytically zinc plated.



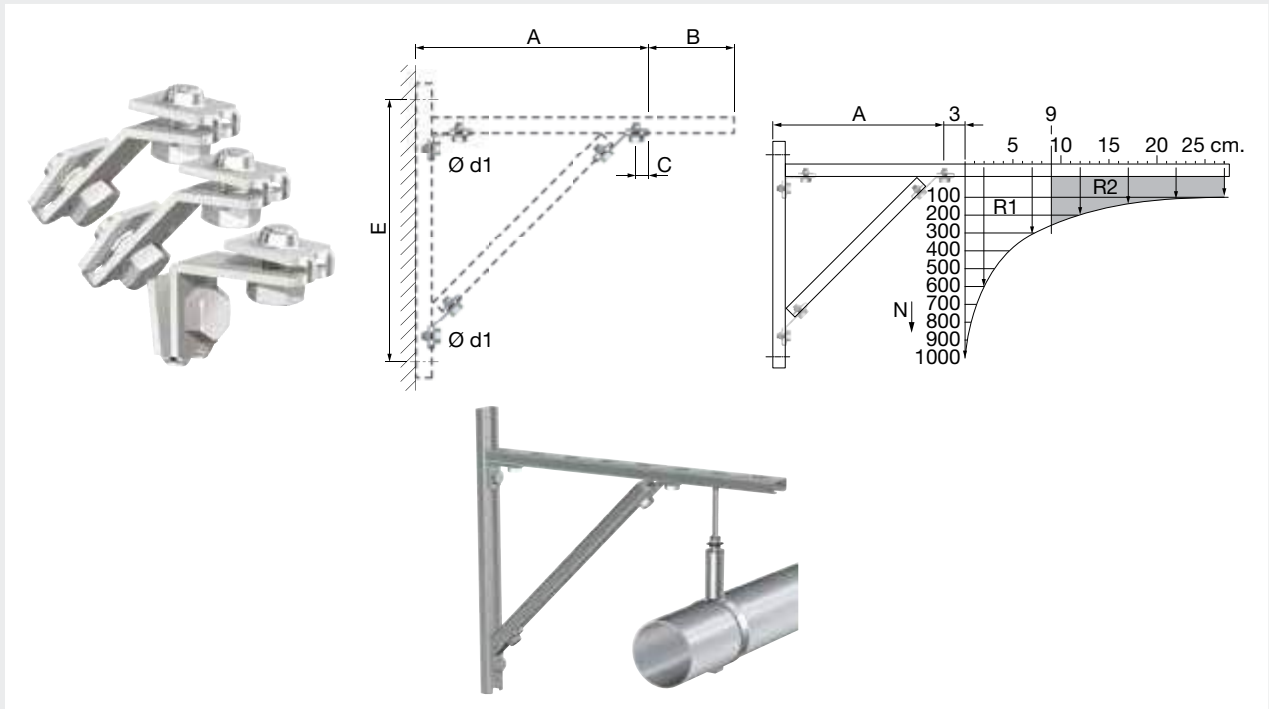
type	article number	suitable for rail	dimensions [mm]						slotted hole	
			A	B	C	D	H	L		
RH 90 - 1	10-71606	R0 - R8	40	30	6.5	4	60	-	11 x 22	50
RH 45 - 2	10-71620	R0 - R8	25	35	-	5	110	110	11 x 40	25
RH 90 - 2	10-71621	R0 - R8	-	35	-	5	110	110	11 x 40	25
RH 135 - 2	10-71622	R0 - R8	-	35	-	5	115	115	11 x 40	25

angle support

HS 1 Angle Support Set

For making a customised (adjustable) suspension or support in combination with VSH FastFix rail R1 or R2.

- Electrolytically zinc plated.
- Consists of one 90° corner bracket, two 135° corner brackets and six M10 x 15 bolts.
- The rail can be ordered separately.



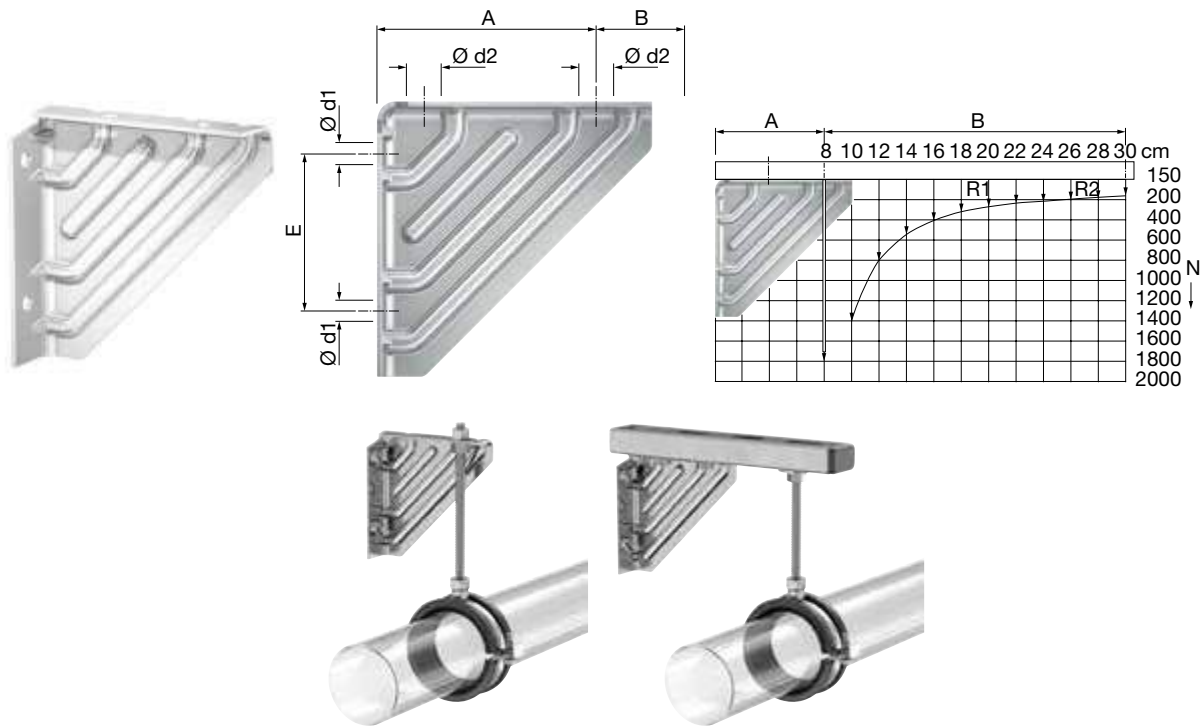
type	article number	suitable for rail	
HS 1	10-71600	R1 - R2	25

HS 1 - Technical specifications

type	suitable for rail	dimensions [mm]					max. working load [N]	
		A	B max.	E	Ø d1	C	A	A+B
HS 1	R1	140 - 530	90	A+60	10	30	1000	260
	R2	155 - 780	270	A+60	10	30	1000	100

HS 2 Angle Support

- For making a customised (adjustable) suspension or support in combination with VSH FastFix rail R0, R1 or R2, or with D 6 or D 8 threaded rod.
- Electrolytically zinc plated.
 - Material thickness: 2 mm.
 - Consists of an angled corner plate with reinforcing ribs and mounting holes.



type	article number	suitable for threaded rod or rail	
HS 2	10-71602	D 6 - D 8 - R1 - R2	25

HS 2 - Technical specifications

type	dimensions [mm]					max. working load [N]	
	A	B max.	E	Ø d1	Ø d2	A	A+ B max.
HS 2	80	220	56	6	9	1800	156

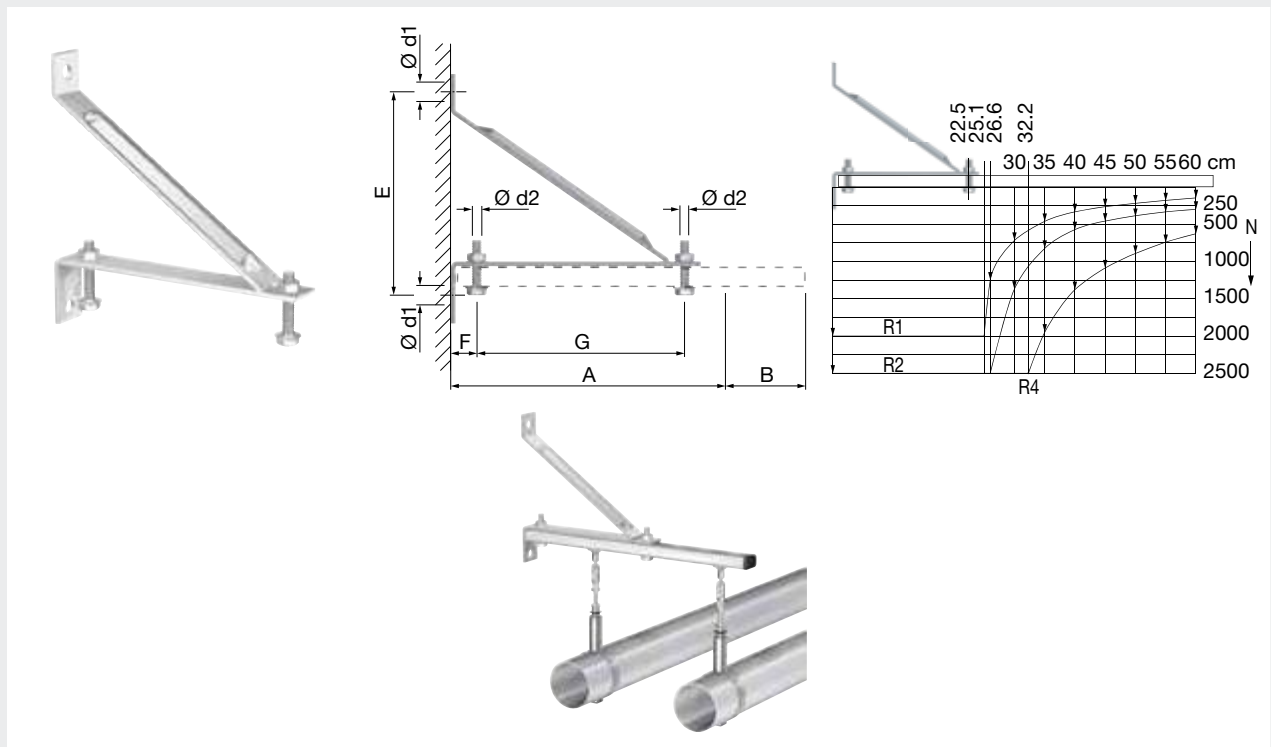
HS 3 Angle Support

The HS 3 Angle Support creates the opportunity to construct a strong suspending or supporting structure to horizontally mount multiple pipes to walls. The supporting structure must be used in combination with VSH FastFix Rail, making it possible to mount the pipes efficiently.

The angle support can be supplied in two versions:

- For VSH FastFix Rail R1 and R2: angle support, two M10 x 35 mm bolts and two washers.
- For VSH FastFix Rail R4: angle support, two M10 x 80 mm bolts and two clamping plates.
- Electrolytically zinc plated.

***When using the HS 3 angle support in combination with VSH FastFix Rail R6, R7 or R8, additional clamping plates SP 10 SR (10-80634) are needed.**



type	article number	suitable for rail	
HS 3	10-71603	R1 - 2	20
HS 3	10-71604	R4*	20

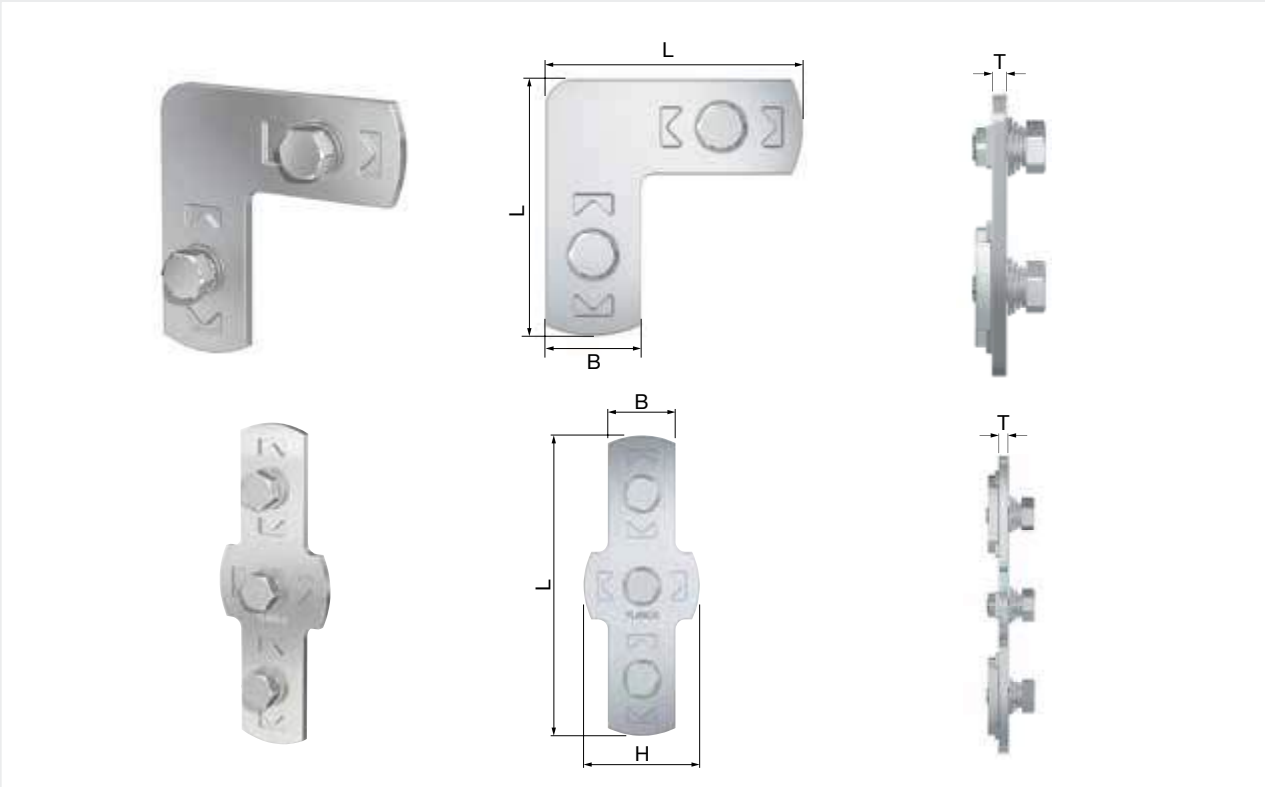
HS 3 - Technical specifications

type	suitable for rail	dimensions [mm]							max. working load [N]	
		A	B max.	E	F	G	$\varnothing d1$	$\varnothing d2$	A	A+B max.
HS 3	R1	260	340	210	25	200	13	11	2000	194
HS 3	R2	260	340	210	25	200	13	11	2500	260
HS 3	R4	260	340	210	25	200	13	11	2500	625

mounting plates and corners

ClickConnection L/X

- For VSH FastFix rail R0 - 8.
- Easy mounting by pushing and turning the unit in the rail for 45° clockwise.
 - Reduced installation time.
 - No loose parts like studs, washers and nuts.
 - Electrolytically zinc plated.
 - Maximum torque: 35 Nm.
 - Safety margin for minimum breaking load (V) = 3.

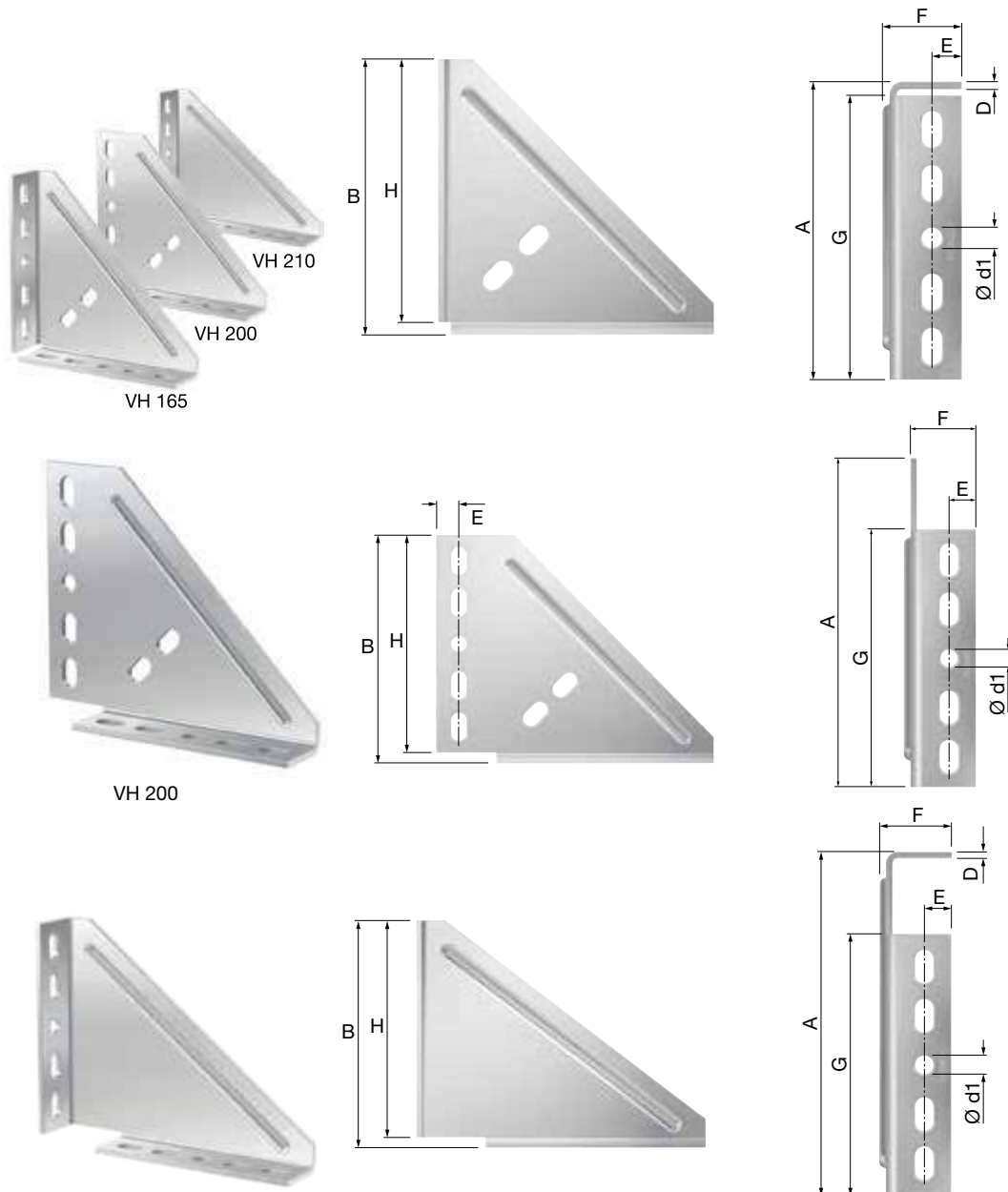


type	article number	max. working load [N]		dimensions [mm]				
		tensile	shear	L	B	T	H	
ClickConnection L	10-71802	3000	1000	95	35	5	-	10
ClickConnection X	10-71803	3000	1000	155	35	5	60	10

VH Corner Brackets

For making an adjustable suspension or support construction on the wall, ceiling or floor.

- Electrolytically zinc plated.
- The hole pattern is such that the rail can be fixed with two bolts.

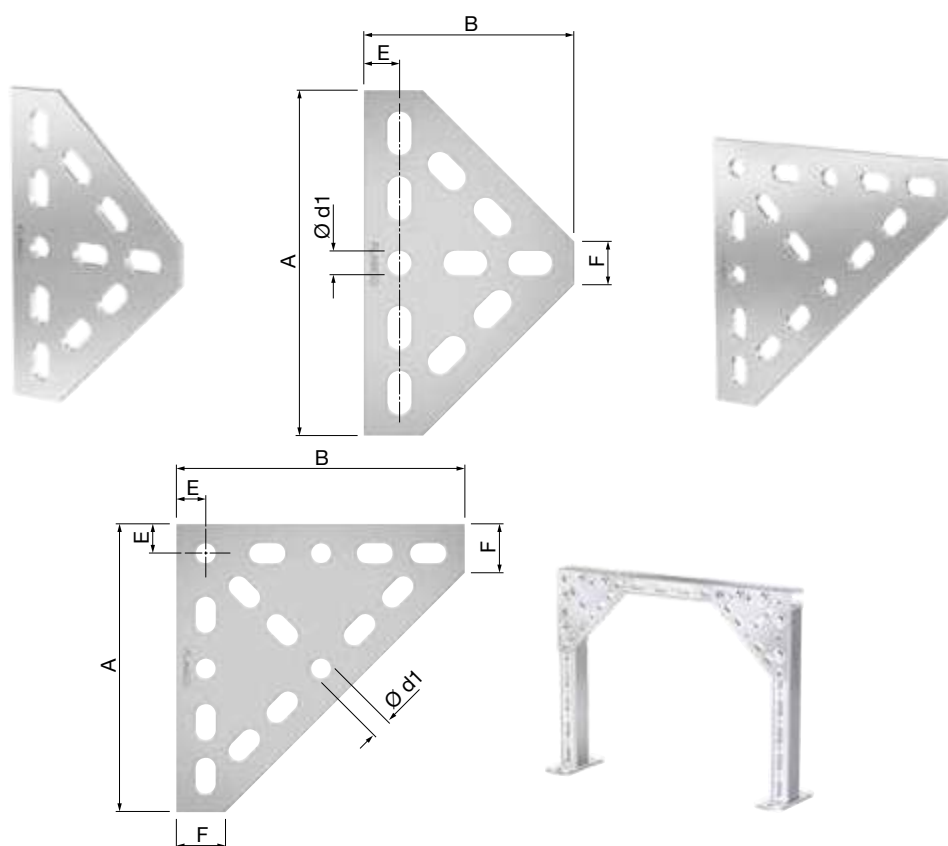


type	article number	dimensions [mm]								slotted hole [mm]	
		A	B	D	E	F	G	H	Ø d1		
VH 165 x 165 x 4	10-71612	165	165	4	16.5	40	157.5	157.5	11	11 x 20	10
VH 200 x 165 x 4	10-71613	200	165	4	16.5	40	157.5	157.5	11	11 x 20	10
VH 210 x 165 x 4	10-71614	210	165	4	16.5	40	160.5	157.5	11	11 x 20	10

VP Corner Plates

For making an adjustable suspension or support construction on the wall, ceiling or floor.

- Electrolytically zinc plated.
- The hole pattern is such that the rail can be fixed with two bolts (M10).



type	dimensions [mm]					material thickness [mm]	slotted hole		article number
	A	B	E	F	Ø d1				
VP 160 x 100 x 4	160	100	16.5	20.0	11	4	11 x 22	25	10-71610
VP 160 x 160 x 4	160	160	16.5	27.5	11	4	11 x 22	25	10-71611

rail support saddles

ClickConnection RZ-V

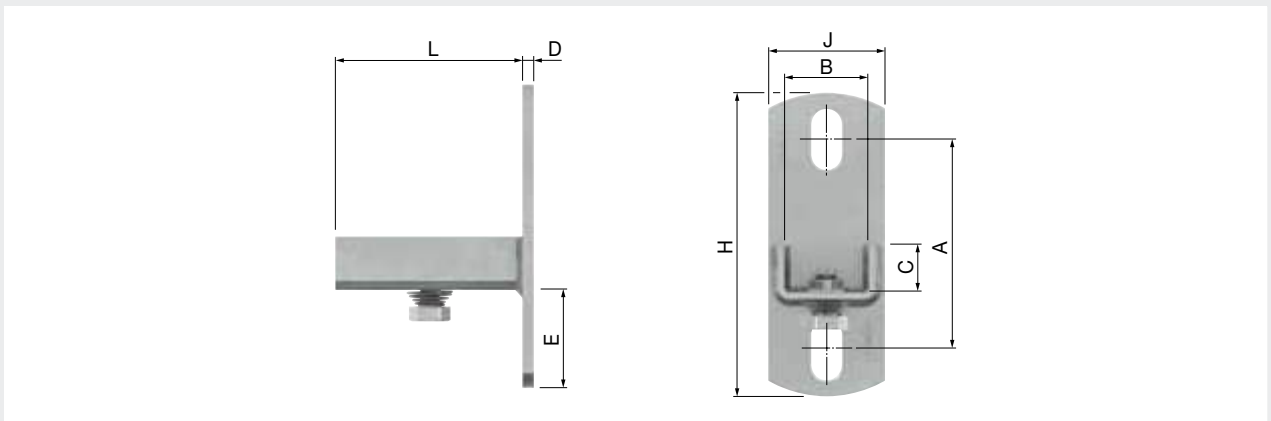
For VSH FastFix rail R0 - 4.

- Electrolytically zinc plated.
- Maximum torque: 80 Nm.
- Safety margin for minimum breaking load (V) = 3.



type	max. working load [N]		max. tightening torque [Nm]	max. moment [Ncm]		article number
	tensile	shear				
ClickConnection RZ-V90	3000	1000	35	8000	10	10-71806

ClickConnection RZ-V - Dimensions



type	dimensions [mm]								slotted hole
	A	B	C	D	E	H	J	L	
ClickConnection RZ-V90	90	35,5	20	5	42	130	50	80	13 x 26

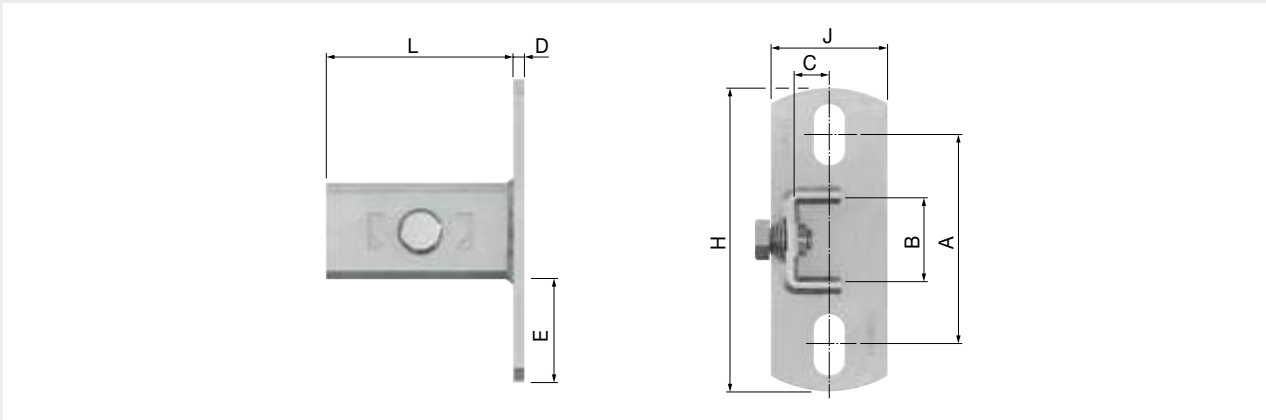
ClickConnection RZ-H

- For VSH FastFix rail R0 - 4.
- Electrolytically zinc plated.
 - Maximum torque: 80 Nm.
 - Safety margin for minimum breaking load (V) = 3.



type	max. working load [N]		max. tightening torque [Nm]	max. moment [Ncm]		article number
	tensile	shear				
ClickConnection RZ-H90	3000	1000	35	8000	10	10-71807

ClickConnection RZ-H - Dimensions

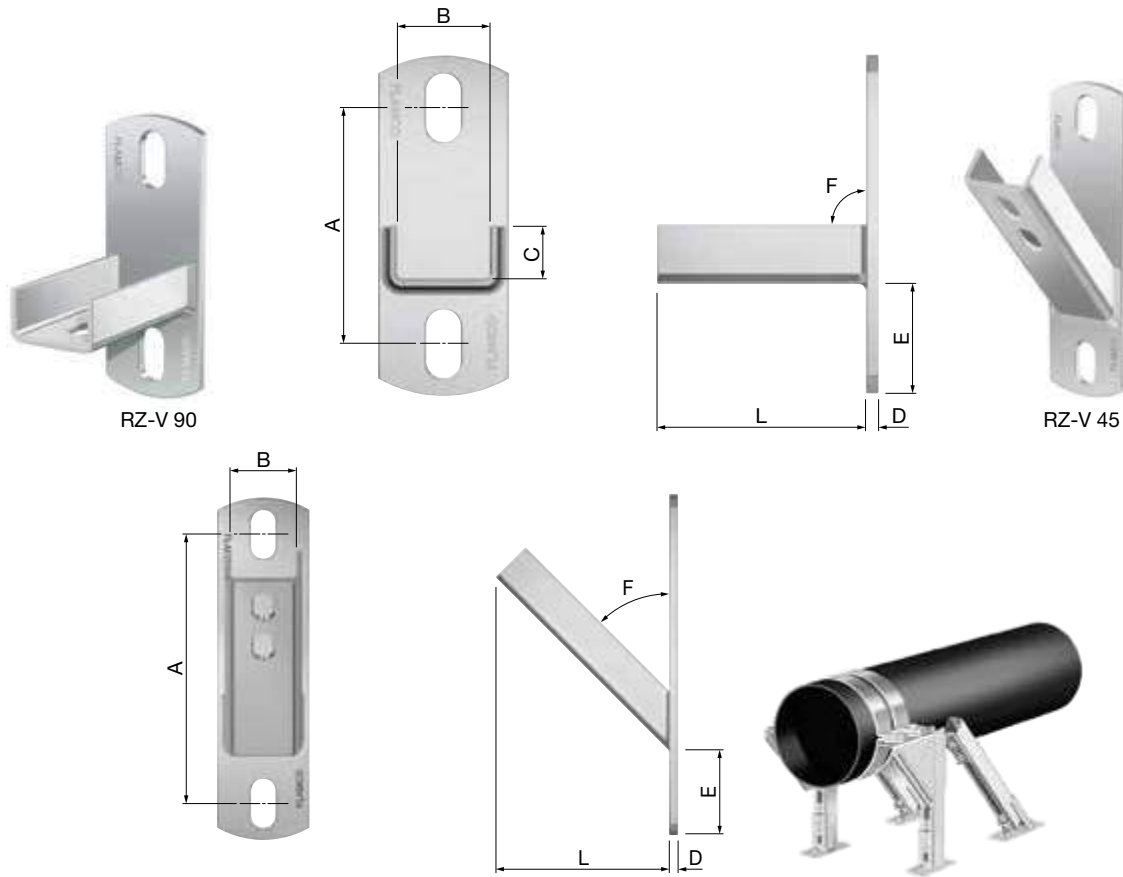


type	dimensions [mm]								slotted hole
	A	B	C	D	E	H	J	L	
ClickConnection RZ-H90	90	35,5	15	5	44,25	130	50	80	13 x 26

RZ-V Rail Support Saddles

For mounting VSH FastFix rails R0 - 4 on the wall, ceiling or floor.

- Electrolytically zinc plated.
- One bolt rail fastening because of hole pattern.
- Adjustable through slotted holes.
- Can also be used for fixed point constructions.

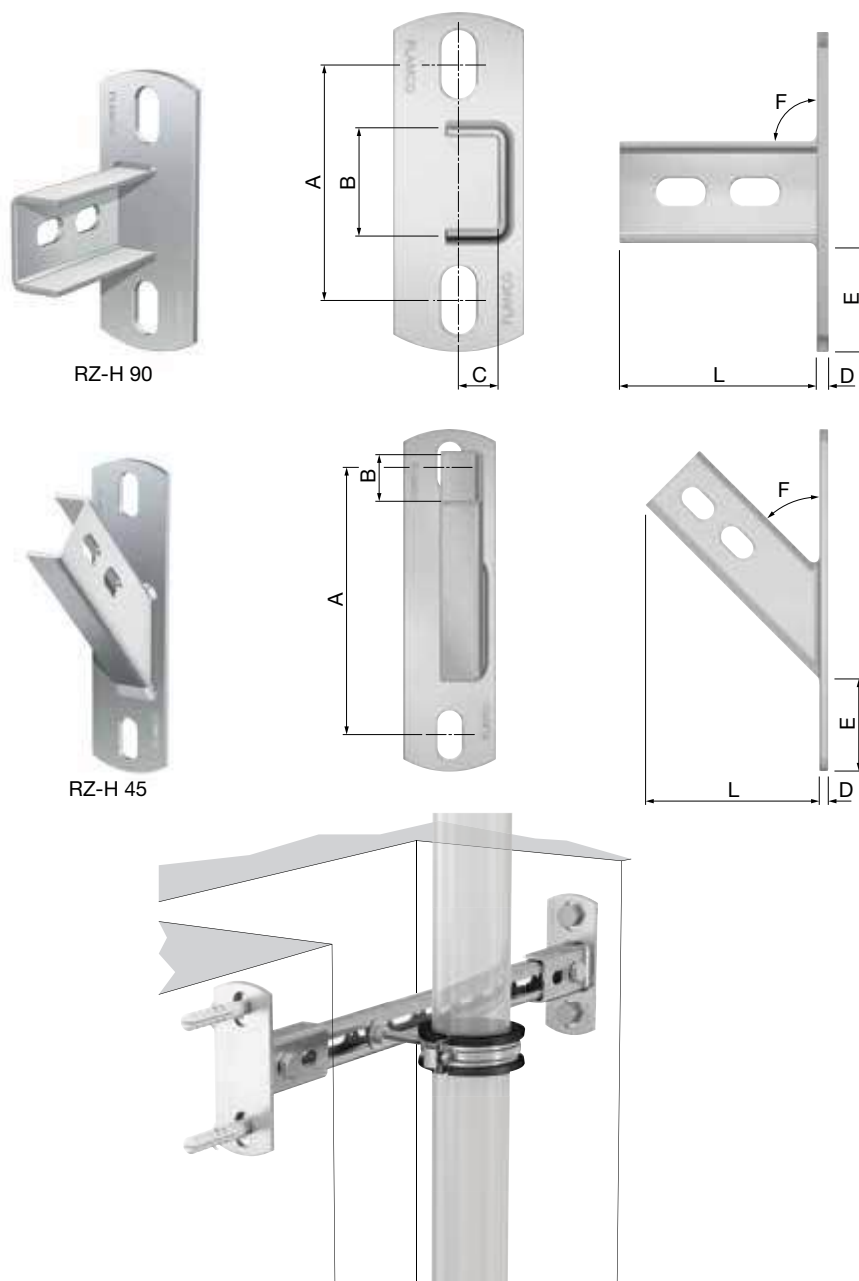


type	article number	suitable for rail	dimensions [mm]							slotted hole			
			A	B	C	D	E	F [°]	L	base plate [mm]	base plate [mm]	saddle [mm]	
RZ-V 90	10-71631	R0 - R4	90	35.5	20	5	45	90	80	130 x 50	13 x 26	11 x 20	10
RZ-V 45	10-71636	R0 - 4	145	35.5	20	5	45	45	94	185 x 50	13 x 26	11 x 20	10

RZ-H Rail Support Saddles

For mounting VSH FastFix rails R0 - 4 on the wall, ceiling or floor.

- Electrolytically zinc plated.
- One bolt rail fastening because of hole pattern.
- Adjustable through slotted holes.



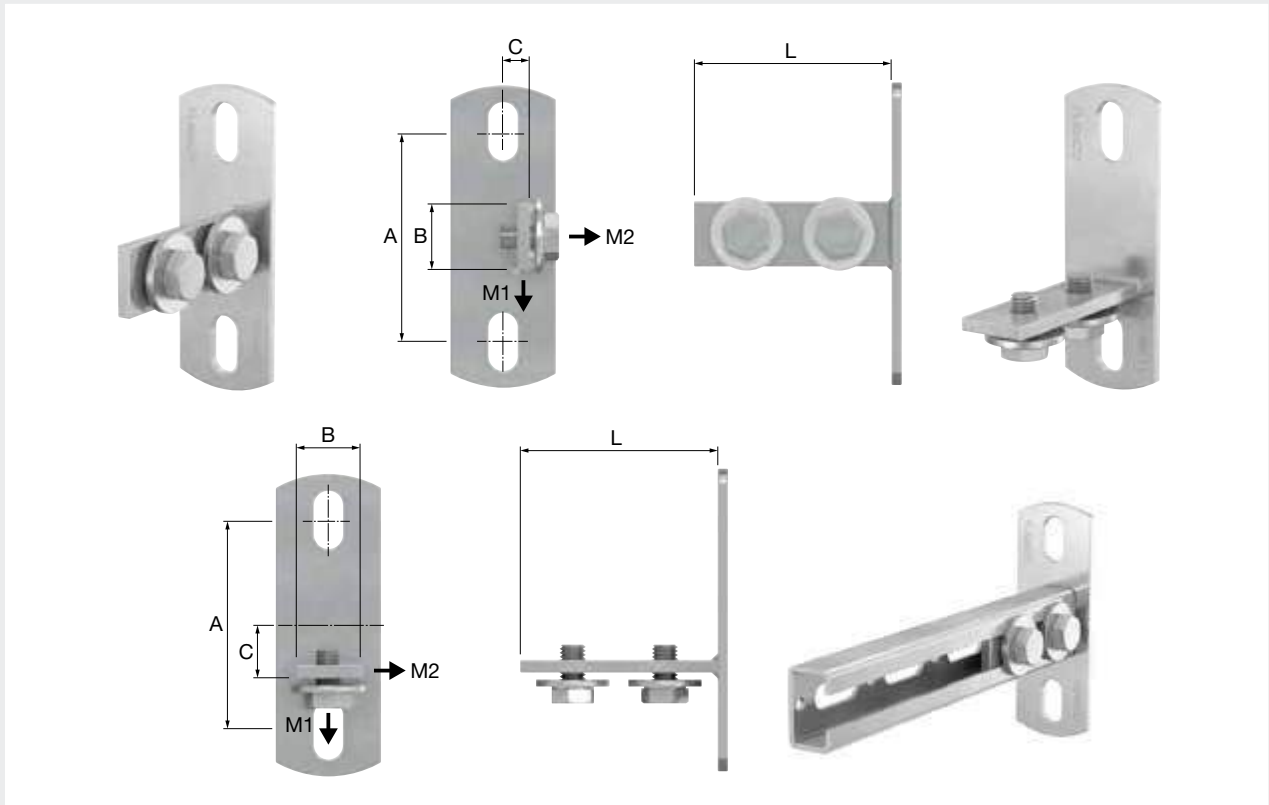
type	article number	suitable for rail	dimensions [mm]							base plate	slotted hole [mm]		
			A	B	C	D	E	F [°]	L		base plate	saddle	
RZ-H 90	10-71630	R0 - 4	90	35.5	15	5	45	90	80	130 x 50	13 x 26	11 x 20	10
RZ-H 45	71635	R0 - 4	145	35.5	15	5	45	45	94	185 x 50	13 x 26	11 x 20	10

rail support flanges

KF Rail Support Flanges

VSH FastFix rail can be mounted rigidly to wall, ceiling and floor with the KF Rail Support Flanges. The KF-H and KF-V create the possibility to mount the rail facing upwards, downwards or sideways at maximum working loads.

- Electrolytically zinc-plated.
- Including bolts M10 and washers.



type	article number	suitable for rail	
KF-H	10-71640	R0 - R8	10
KF-V	10-71641	R0 - 4, R7, R8	10

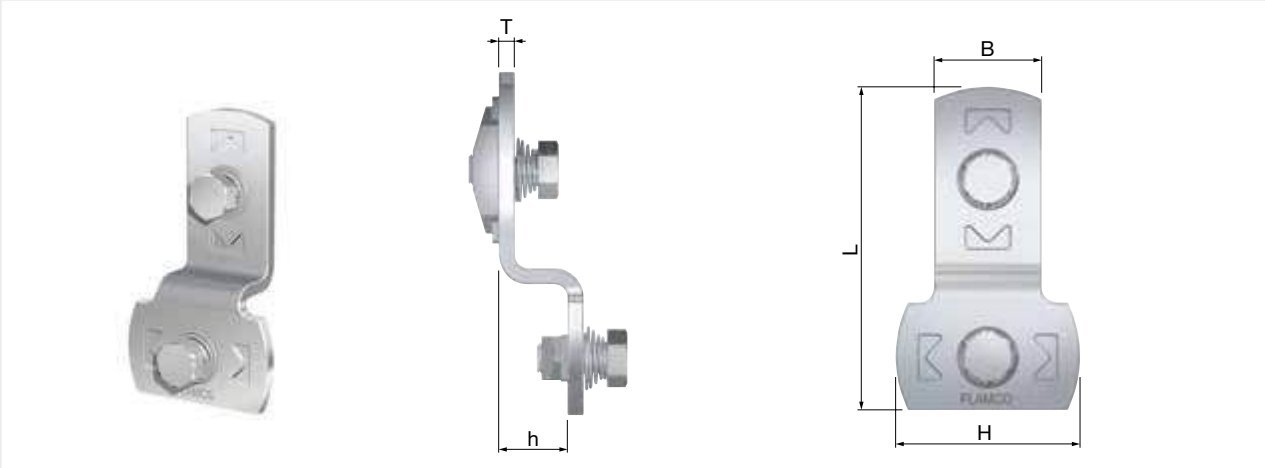
KF - Technical specifications

type	dimensions [mm]						max. working load			bolts
	A	B	C	L	base plate [mm]	slotted hole [mm]	bending moment (M1) [Ncm]	bending moment (M2) [Ncm]	shear [N]	
KF-H	80	25	10	75	115 x 40	11 x 22	3750	1750	1300	M10
KF-V	80	25	20	75	115 x 40	11 x 22	1750	3750	1300	M10

rail clamp squares

ClickConnection PS31

- For VSH FastFix rail R0, R1, R2 and R8.
- Easy mounting by pushing and turning the unit in the rail for 45° clockwise.
 - Reduced installation time.
 - No loose parts like studs, washers and nuts.
 - Electrolytically zinc plated.
 - Safety margin for minimum breaking load (V) = 3.



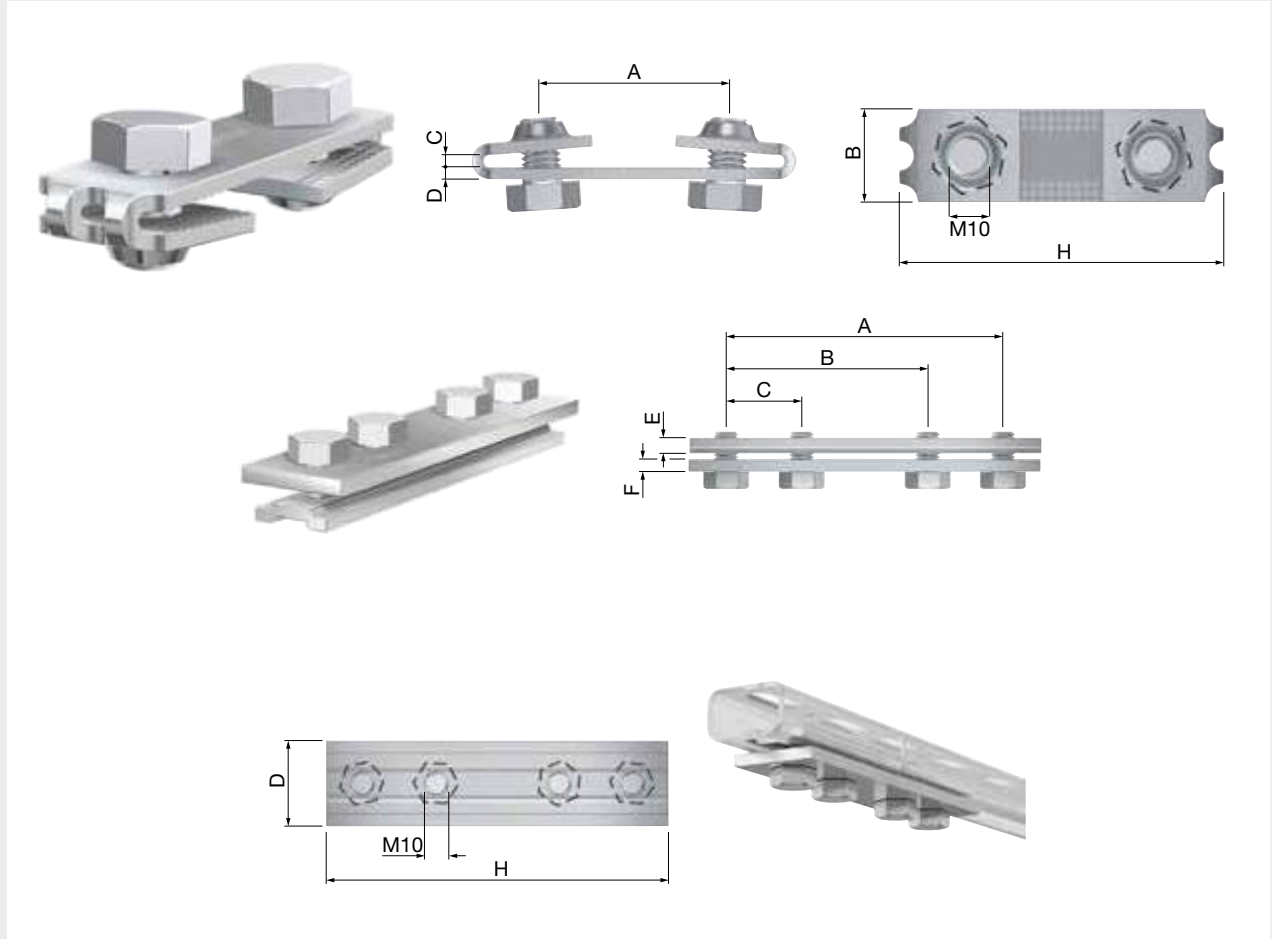
type	article number	max. working load [N]		dimensions [mm]					
		tensile	shear	L	B	T	H	h	
ClickConnection PS31	10-71805	3000	1000	105	35	5	60	21	20

rail extensions

RL Rail Extender

For the in-line connection of two VSH FastFix rails.

- Electrolytically zinc plated.
- Including pre-assembled M10 bolts.

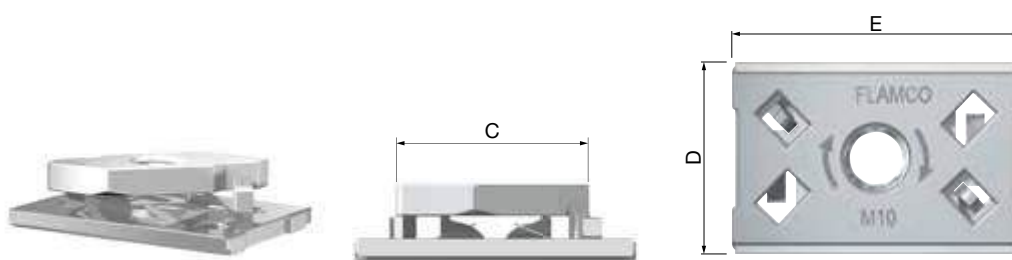


type	article number	suitable for rail	dimensions [mm]							
			A	B	C	D	E	F	H	
RL 80	10-71605	R0 - R8	45	24	3	3	-	-	80	50
RL 140	10-71608	R0 - R8	110	80	30	35	6.2	5	140	50

rail nuts, hammer head bolts and sets

ClickFit M

- For quick mounting of rail nut, hammer head bolts and sets.
- Suitable for any type of VSH FastFix rail.
- Easy mounting by pushing and turning the unit in the rail for 45° clockwise.
- No-return stop (steel).
- Fire resistant (no plastic).
- Reduced installation time.
- No loose parts like studs, washers and nuts.
- Suitable for threaded rod ISO 965-2.
- Electrolytically zinc plated.
- Safety margin for minimum breaking load (V) = 3.

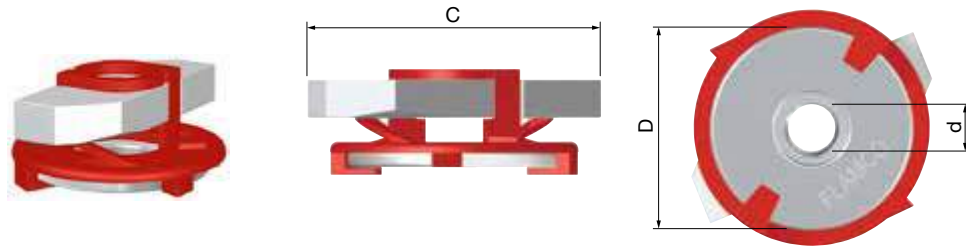


type	article number	connection	max. working load [N]	max. tightening torque [Nm]	rail nut (C) [mm]	locking plate (D x E) [mm]	
ClickFit M6	10-80306	M6	2100	10	39 x 13.8	30 x 45	100
ClickFit M8	10-80307	M8	2100	15	39 x 13.8	30 x 45	100
ClickFit M10	10-80308	M10	2100	15	39 x 13.8	30 x 45	100

ClickEasy

For quick mounting of rail nut, hammer head bolts and sets.

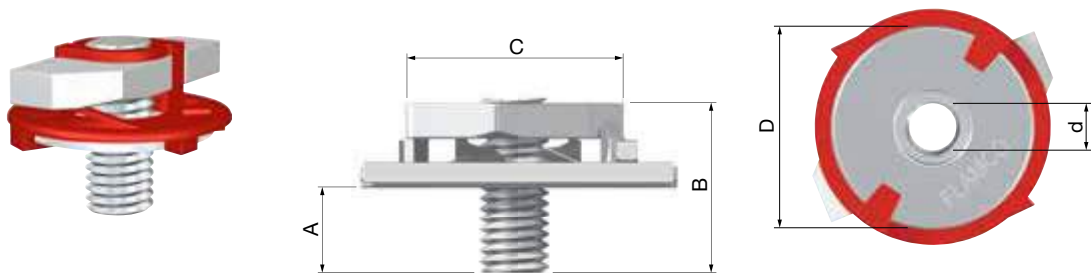
- Suitable for any type of VSH FastFix rail.
- Non-return stop (plastic).
- Reduced installation time.
- No loose parts like studs, washers and nuts.
- Electrolytically zinc plated.
- Safety margin for minimum breaking load (V) = 3.



type	article number	connection	max. working load [N]	max. tightening torque [Nm]	rail nut (C) [mm]	Ø (D x d) [mm]	
ClickEasy M6	10-80360	M6	1800	5	36 x 13.8	28 x 6.6	50
ClickEasy M8	10-80361	M8	1800	10	36 x 13.8	28 x 8.6	50
ClickEasy M10	10-80362	M10	1800	15	36 x 13.8	28 x 10.6	50

ClickEasy HB

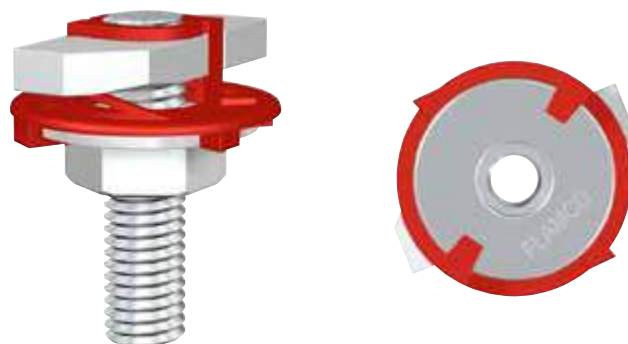
Similar to the ClickEasy, but fitted with threaded pin.



type	article number	con- nection	max. working load [N]	max. tightening torque [Nm]	Rail nut C	Ø D x d [mm]	threaded rod	dimensions [mm]		
								A	B	
ClickEasy HB 8	10-80366	M8	1800	10	36 x 13.8	28 x 8.6	M8 x 18	6	18	50

ClickEasy HBS

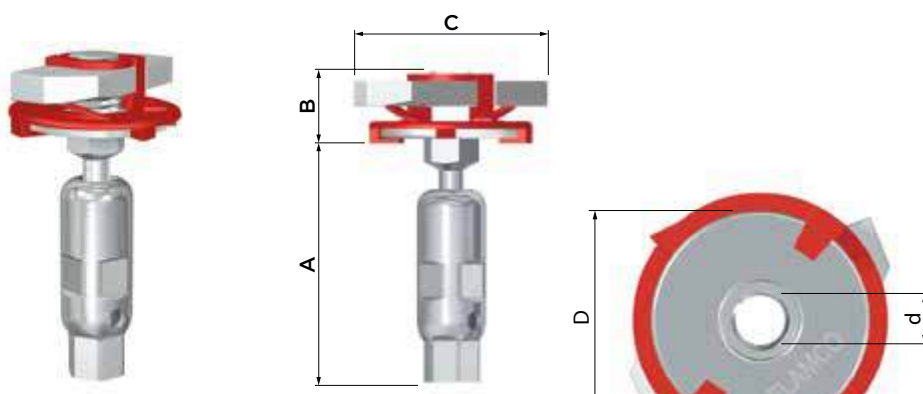
Similar to the ClickEasy, but fitted with threaded pin and locknut.



type	article number	connection	max. working load [N]	max. tightening torque [Nm]	rail nut (C) [mm]	washer (D x d) [mm]	threaded rod	dimensions [mm]		
								A	B	
ClickEasy HBS 8 x 25	10-80374	M8	1800	10	36 x 13.8	28 x 8.6	M8 x 25	11	25	50
ClickEasy HBS 8 x 30	10-80375	M8	1800	10	36 x 13.8	28 x 8.6	M8 x 30	16	30	50
ClickEasy HBS 8 x 40	10-80376	M8	1800	10	36 x 13.8	28 x 8.6	M8 x 40	26	40	50
ClickEasy HBS 8 x 50	10-80377	M8	1800	10	36 x 13.8	28 x 8.6	M8 x 50	36	50	50
ClickEasy HBS 8 x 80	10-80384	M8	1800	10	36 x 13.8	28 x 8.6	M8 x 80	66	80	50
ClickEasy HBS 8 x 100	10-80386	M8	1800	10	36 x 13.8	28 x 8.6	M8 x 100	86	100	50
ClickEasy HBS 10 x 30	10-80379	M10	1800	15	36 x 13.8	28 x 10.6	M10 x 30	16	30	50
ClickEasy HBS 10 x 40	10-80380	M10	1800	15	36 x 13.8	28 x 10.6	M10 x 40	26	40	50
ClickEasy HBS 10 x 50	10-80381	M10	1800	15	36 x 13.8	28 x 10.6	M10 x 50	36	50	50

ClickEasy K

Similar to the ClickEasy, but fitted with K(S) ball hanger.



type	article number	connection	max. working load [N]	max. torque [Nm]	rail nut (C) [mm]	locking washer (D x d) [mm]	ball hanger	dimensions [mm]		
								A	B	
ClickEasy K 8	10-80391	M8	1800	10	36 x 13.8	28 x 8.6	KS 8 x 8	50	13	50
ClickEasy K 10	10-80392	M10	1800	10	36 x 13.8	28 x 10.6	KS 10 x 10	50	13	50

M..s Sliding Nuts

For easy mounting of a suspension in VSH FastFix rail.

- Electrolytically zinc plated.

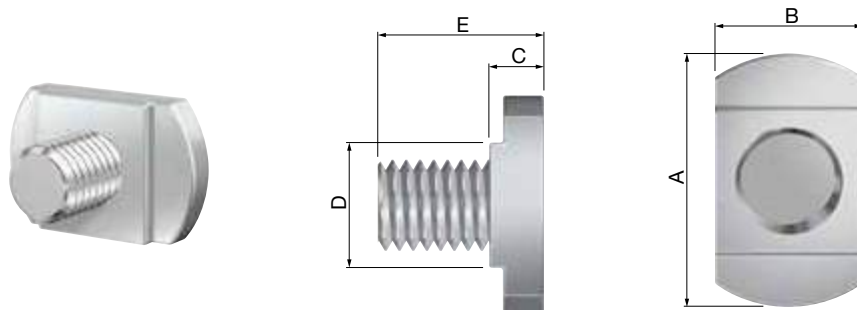


type	article number	suitable for rail	connection	dimensions [mm]				
				A	B	C	D	
M6s	10-80301	R0 - R8	M6	23	15	5	14	1000
M8s	10-80302	R0 - R8	M8	23	15	5	14	1000
M10s	10-80303	R0 - R8	M10	23	15	5	14	1000
M12s	10-80304	R0 - R8	M12	25	22	6	14	250

HB Hammer Head Bolts

For easy mounting of a suspension in VSH FastFix rail.

- Electrolytically zinc plated.

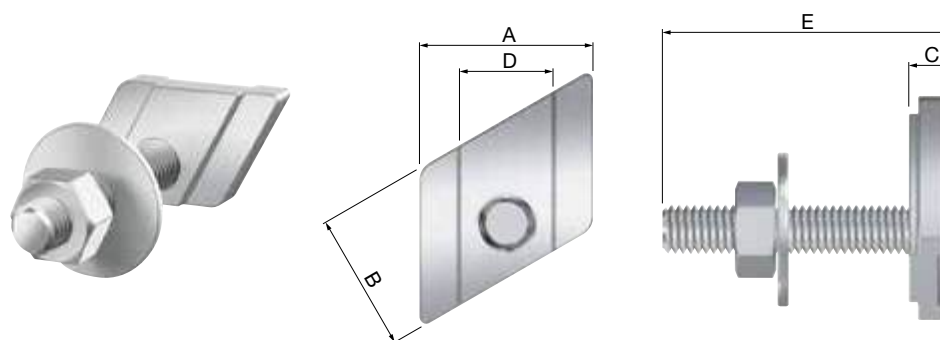


type	article number	suitable for rail	connection	dimensions [mm]					
				A	B	C	D	E	
HB 6	10-70401	R0 - R8	M6	24	14	5	14	14	500
HB 8	10-70402	R0 - R8	M8	24	14	5	14	15	500
HB 10	10-70403	R0 - R8	M10	24	14	5	14	17	500

HBS Hammer Head Bolt Sets

The hammer head bolt set makes simple and fast mounting possible of VSH FastFix pipe mounting material to all types of VSH FastFix rail.

- Supplied complete with nut and washer.
- Electrolytically zinc plated.
- Safety margin for minimal breaking load (V) = 3.



type	article number	connection	max. working load [N]	dimensions [mm]					
				A	B	C	D	E	
HBS 8 x 25	10-70450	M8	3000	25	20	6.5	13.5	25	10
HBS 8 x 30	10-70451	M8	3000	25	20	6.5	13.5	30	10
HBS 8 x 40	10-70452	M8	3000	25	20	6.5	13.5	40	10
HBS 8 x 50	10-70453	M8	3000	25	20	6.5	13.5	50	10
HBS 8 x 60	10-70454	M8	3000	25	20	6.5	13.5	60	10
HBS 8 x 100	10-70458	M8	3000	25	20	6.5	13.5	100	10
HBS 10 x 25	10-70462	M10	3000	25	20	6.5	13.5	25	10
HBS 10 x 40	10-70463	M10	3000	25	20	6.5	13.5	40	10
HBS 10 x 60	10-70464	M10	3000	25	20	6.5	13.5	60	10

nuts

For easy mounting of a suspension in VSH FastFix rail.

- Electrolytically zinc plated.

M Nuts



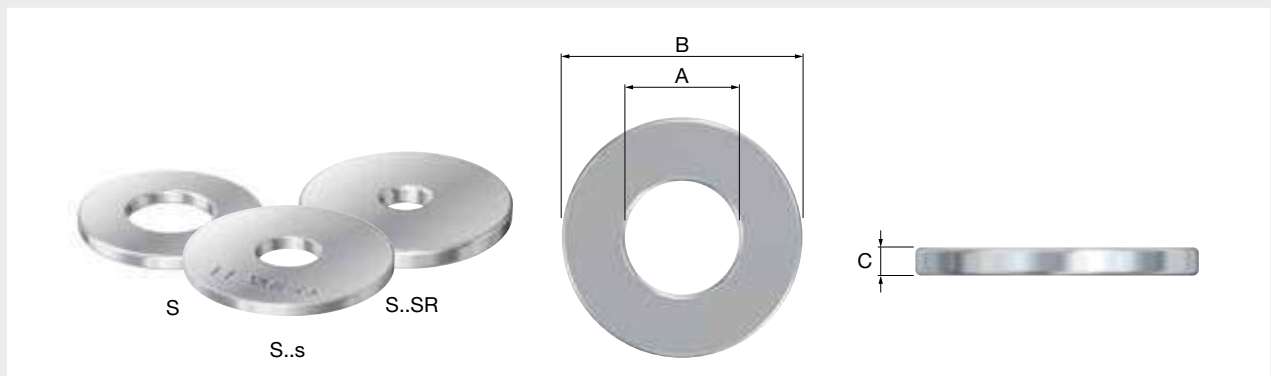
type	article number	spanner size (SW)	connection	nut height ^h [mm]	
M6	10-70201	10	M6	5	1000
M8	10-70202	13	M8	6.5	1000
M10	10-70203	17	M10	8	1000
M12	10-70204	19	M12	10	500
M16	10-70205	24	M16	13	250
M20	10-70206	30	M20	16	100

washers

For easy mounting of a suspension in VSH FastFix rail.

- Electrolytically zinc plated.

S Washers



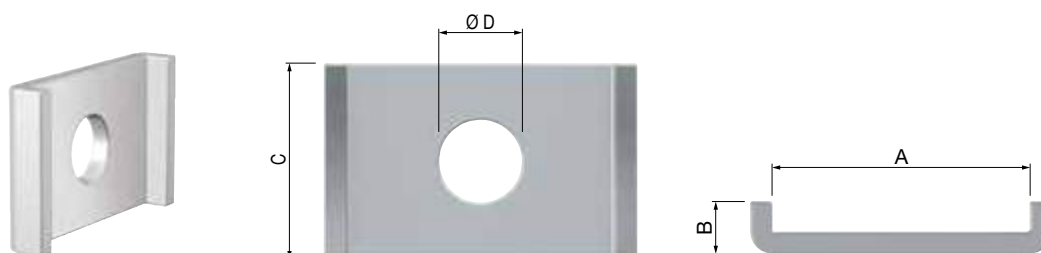
type	article number	connection (A)	dimensions [mm]		
			B	C	
S 6	10-70801	M6	14	0.8	250
S 8	10-70802	M8	18	1.5	250
S 10	10-70803	M10	22	1.5	250
S 12	10-70804	M12	28	2.0	1000
S 16	10-70805	M16	33	2.0	250
S 20	10-70806	M20	40	2.5	250
S 6s	10-70811	M6	25	2.0	1000
S 8s	10-70812	M8	28	2.0	1000
S 10s	10-70813	M10	28	2.0	1000
S 8 SR	10-70832	M8	40	4.0	100
S 10 SR	10-70833	M10	40	4.0	100
S 12 SR	10-70834	M12	40	5.0	100

clamping plates

For easy mounting of a suspension in VSH FastFix rail.

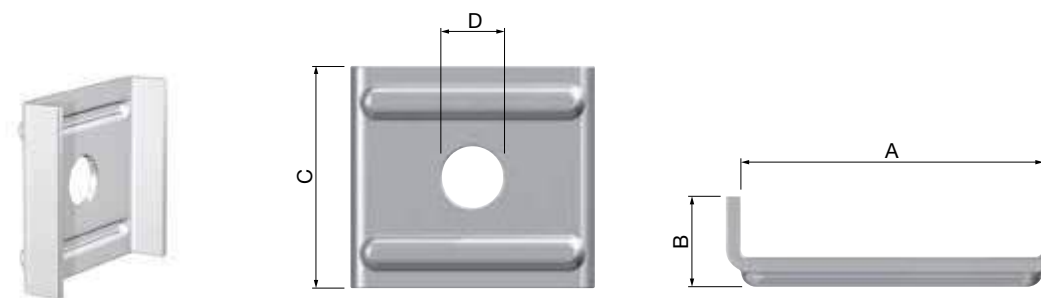
- Electrolytically zinc plated.

SP Clamping Plates



type	article number	suitable for rail	connection	dimensions [mm]				
				A	B	C	D	
SP 8	10-80608	R2 - 4	M8	34	7	25	8.5	100
SP 10	10-80610	R2 - 4	M10	34	7	25	10.5	100
SP 12	10-80612	R2 - 4	M12	34	7	25	12.5	100

SP..SR Clamping Plates



type	article number	suitable for rail	connection	dimensions [mm]				
				A	B	C	D	
SP 8 SR	10-80632	R6 - 8	M8	40	12	40	8.5	50
SP 10 SR	10-80634	R6 - 8	M10	40	12	40	11.5	50
SP 12 SR	10-80636	R6 - 8	M12	40	12	40	12,5	50

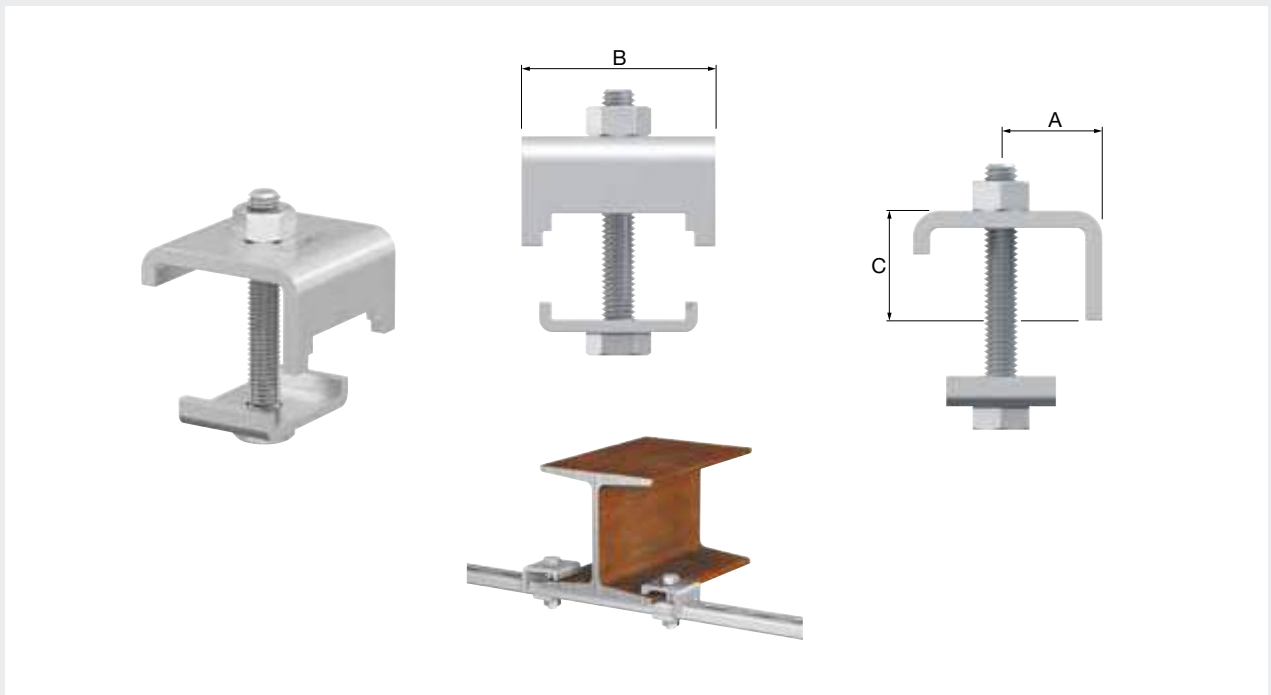
rail girder clips

RB Rail Girder clips

For mounting VSH FastFix rail to steel profiles without drilling or welding.
Can be used in combination with VSH FastFix rails R1-8.

- Electrolytically zinc plated.
- Load depends on j76 rail.
- Supplied complete with upper plate and lower plate, nut and bolt.

N.B.: Two RB clips per fixing.



type	article number	suitable for rail	bolt	max. clamp height C	dimensions [mm]			
					A	B	clamping plate	
RB 1	10-80601	R1	M8 x 55	15	20	44	36 x 25	50
RB 2	10-80602	R2	M8 x 55	15	20	44	40 x 25	50
RB 3 / 4	10-80604	R3 - 4	M10 x 80	15	20	44	40 x 25	50
RB 6	10-80603	R6	M10 x 100	15	20	50	44 x 40	50
RB 7 / 8	10-80605	R7 - 8	M10 x 80	15	20	50	44 x 40	10



VSH FastFix

mounting accessories



threaded rods and tubes

D Threaded Ends



Pre-cut pieces of threaded rod in various lengths as connection pieces between clips, rails, backplates, anchors, etc.

- Electrolytically zinc-plated (in compliance with European directive 2002/95/EC "ROHS").
- DIN 976/A, tolerance class 6g.
- Steel Fe37 - 1.0037, quality 4.8.
- Length tolerance from 25 to 400 mm: +0/-1mm.

type	article number	connection	L. [mm]	
D 8 x 25	10-70750	M8	25	100
D 8 x 40	10-70751	M8	40	100
D 8 x 70	10-70752	M8	70	100
D 8 x 80	10-70753	M8	80	100
D 8 x 100	10-70754	M8	100	100
D 8 x 150	10-70760	M8	150	100
D 8 x 200	10-70761	M8	200	100
D 10 x 25	10-70755	M10	25	100
D 10 x 40	10-70756	M10	40	100
D 10 x 50	10-70765	M10	50	100
D 10 x 60	10-70757	M10	60	100
D 10 x 80	10-70758	M10	80	100
D 10 x 100	10-70759	M10	100	100
D 10 x 120	10-70762	M10	120	100
D 10 x 150	10-70763	M10	150	100
D 10 x 200	10-70764	M10	200	100

Threaded Tube Female



- Female thread.
- In accordance with ISO 228-1.

type	article number	connection	L. [mm]	
Threaded pipe ½ x 1 m	10-51615	G½" F	1000	5

Threaded Tube Male



- Male thread.
- In accordance with ISO 228-1.

type	article number	Size	L. [mm]	
Threaded pipe ½ x 2 m	10-51611	G½" M	2000	10
Threaded pipe ¾ x 2 m	10-51612	G¾" M	2000	5
Threaded pipe 1 x 2 m	10-51613	G1" M	2000	5

D Threaded Rods



For all fixing and constructions requiring threaded rod.

- Produced according to current standards with 60° top angle for maximum load.
- Electrolytically zinc plated, except order code 70095.
- Steel grade 4.8.
- Material S235JR EN 10250/2.
- In accordance with DIN 976-1.

type	article number	connection	length [m]	max. working load [N]	
D 6	10-70011	M6	1	2500	100m
D 8	10-70012	M8	1	4500	50m
D 8	10-70042	M8	3	4500	75m
D 8	10-70032	M8	2	4500	50m
D 10	10-70013	M10	1	7000	25m
D 10	10-70033	M10	2	7000	40m
D 10	10-70043	M10	3	7000	60m
D 12	10-70014	M12	1	10000	20m
D 12	10-70034	M12	2	10000	30m
D 12	10-70044	M12	3	10000	45m
D 16	10-70015	M16	1	18000	10m

mounting strips

LB Mounting Strip

- The plastic coating is stuck to the steel core, so that it cannot slide.
- Can be cut easily to the right length.
- Quick and easy to install.
- High mechanical tensile strength.
- Maximum working temperature: 120°C.
- Distance between the holes (centres): 15 mm.



type	article number	in cassette	roll [m]	dimensions [mm]		max. working load [N]	
				width	perforations [mm]		
LB 17 galv.	10-71015		10	17	Ø 6.5	800	1
LB 17 galv.	10-71020	-	25	17	Ø 6.5	800	1
LB 19 coated	10-71016		10	19	Ø 6.5	800	1

EB Female Suspension Eye



Forged cast iron, zinc plated.

type	article number	connection	
EB 25 - 8	10-33267	M8	250

nuts

For easy mounting of a suspension in VSH FastFix rail.

- Electrolytically zinc plated.

M Nuts



type	article number	spanner size (SW)	connection	nut heighth^ [mm]	
M6	10-70201	10	M6	5	1000
M8	10-70202	13	M8	6.5	1000
M10	10-70203	17	M10	8	1000
M12	10-70204	19	M12	10	500
M16	10-70205	24	M16	13	250
M20	10-70206	30	M20	16	100

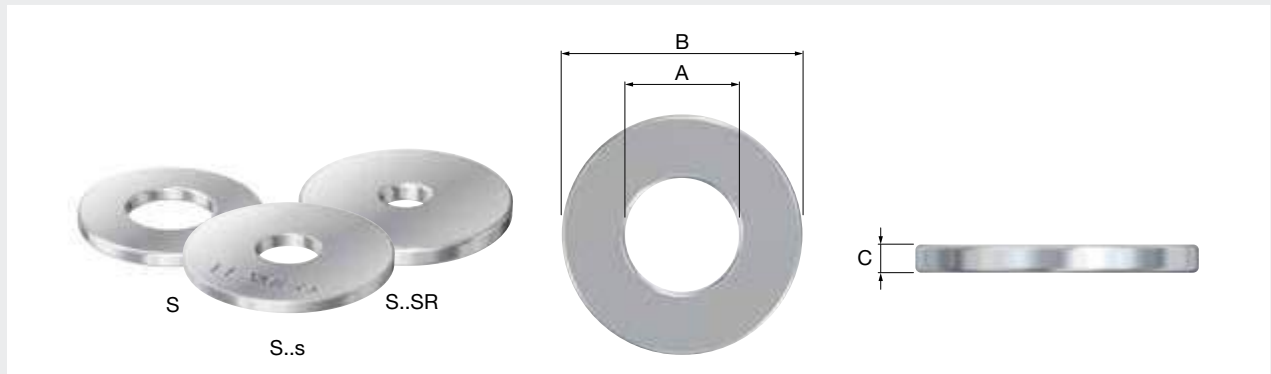
washers

For easy mounting of a suspension in VSH FastFix rail.

- Electrolytically zinc plated.



S Washers



type	article number	connection (A)	dimensions [mm]		
			B	C	
S 6	10-70801	M6	14	0.8	250
S 8	10-70802	M8	18	1.5	250
S 10	10-70803	M10	22	1.5	250
S 12	10-70804	M12	28	2.0	1000
S 16	10-70805	M16	33	2.0	250
S 20	10-70806	M20	40	2.5	250
S 6s	10-70811	M6	25	2.0	1000
S 8s	10-70812	M8	28	2.0	1000
S 10s	10-70813	M10	28	2.0	1000
S 8 SR	10-70832	M8	40	4.0	100
S 10 SR	10-70833	M10	40	4.0	100
S 12 SR	10-70834	M12	40	5.0	100

anchors, plugs and screws

SCS Self Tapping Concrete Screw

- For installation on top of the rail.
- Suitable for installation in i.a. cracked and non-cracked concrete, pavers, natural stone, sand-lime bricks and clay bricks.
- Complies with the requirements of VdS CEA 4001.
- With hexagonal head.
- Electrolytically zinc plated.



type	article number	dimensions [mm]		spanner size (SW)	drill Ø [mm]	drill depth [mm]	Rec. tension load* [kN]	
		Ø	L.					
SCS 7.5 x 50	10-82050	7.5	50	13	6	55	3.7	100
SCS 7.5 x 60	10-82051	7.5	60	13	6	55 / 65	3.7 / 5.3	100
SCS 7.5 x 80	10-82052	7.5	80	13	6	55 / 65	3.7 / 5.3	50

* In non-cracked concrete C20/25.



SCS - Fire performance

type	max. working load [N]			
	30 min.	60 min.	90 min.	120 min.
SCS 7.5 x 50	500	500	500	400
SCS 7.5 x 80	1100	800	500	400
SCS 7.5 x 60	1100	800	500	400

SCS-I Self-tapping Concrete Screw

- Suitable for installation in cracked and non-cracked concrete, pavers, natural stone, sand-lime bricks and clay bricks.
- Complies with the requirements of VdS CEA 4001.
- Electrolytically zinc plated.
- With internal thread.
- With removable combination nut (M8/10).



type	article number	dimensions [mm]		spanner size (SW)	drill Ø [mm]	drill depth [mm]	Rec. tension load* [kN]	
		Ø	L.					
SCS-I 7.5 x 35	10-82044	7.5	35	13	6	45	1.9	50
SCS-I 7.5 x 60	10-82054	7.5	60	13	6	65	5.3	40

* In non-cracked concrete C20/25.



SCS-I - Fire performance

type	max. working load [N]			
	30 min.	60 min.	90 min.	120 min.
SCS-I 7.5 x 35	900	800	600	400
SCS-I 7.5 x 60	900	800	600	400

SCS-P Self-tapping Concrete Screw

- For installation inside the rail.
- Suitable for installation in cracked and non-cracked concrete, pavers, natural stone, sand-lime bricks and clay bricks.
- Complies with the requirements of VdS CEA 4001.
- With panhead.
- Electrolytically zinc plated.



type	article number	dimensions [mm]		torx	drill Ø [mm]	drill depth [mm]	Rec. tension load* [kN]	
		Ø	L.					
SCS-P 7.5 x 25**	10-82058	7.5	25	30	6	30	1.2	200
SCS-P 7.5 x 45	10-82059	7.5	45	30	6	55	3.7	100

* In non-cracked concrete C20/25.

** No part of the certification.



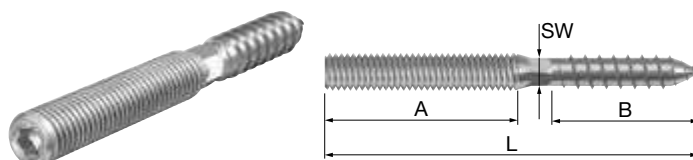
SCS-P - Fire performance

type	max. working load [N]			
	30 min.	60 min.	90 min.	120 min.
SCS-P 7.5 x 45	900	800	600	400

HO Dowel Screws

Metric thread to wood thread dowel screws for fixing BM wall clips and BS universal clips.

- Without plug.
- Electrolytically zinc plated.
- As per DIN 13, part 12, rolled thread.
- With torx.
- Without collar.
- With hexagonal midsection.
- Steel grade 4.8.

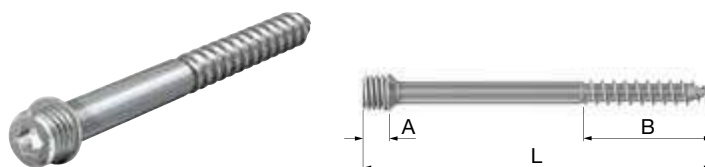


type	article number	threaded connection (D)	dimensions [mm]					torx	
			L	A	B	spanner (SW)	Ø (wood thread) [mm]		
HO 8 x 50	10-70607	M8	50	15	30	6	7	25	100
HO 8 x 80	10-70601	M8	80	40	30	6	7	25	100
HO 8 x 100	10-51702	M8	100	40	40	6	7	25	100
HO 8 x 120	10-70604	M8	120	50	50	6	7	25	100
HO 8 x 140	10-51704	M8	140	50	60	6	7	25	100
HO 8 x 160	10-51705	M8	160	50	50	6	7	25	100
HO 8 x 200	10-51715	M8	200	50	45	6	8	25	50
HO 10 x 80	10-51707	M10	80	20	50	8	9	25	100
HO 10 x 100 (without torx)	10-51708	M10	100	30	60	8	9	-	100
HO 10 x 120	10-70605	M10	120	40	55	8	10	25	100
HO 10 x 140	10-51710	M10	140	50	60	8	9	25	100
HO 10 x 160	10-51711	M10	160	40	60	8	9	25	100
HO 12 x 120	10-70603	M12	120	45	60	9	11	30	100

* With two-sided midsection.

HO-K Dowel Screws With Collar

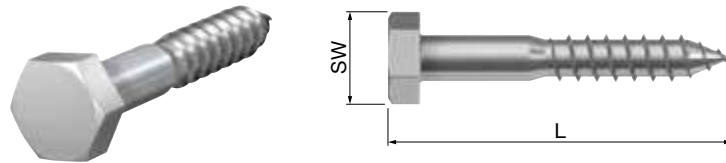
- Electrolytically zinc plated.
- As per DIN 13, part 12, rolled thread.
- With torx.
- With collar.
- With rounded midsection.



type	article number	connection	dimensions [mm]			Ø	
			L	A	B		
HO-K 10 x 120	10-51733	M10	120	7	55	7.5	100

HZ Lag Bolts

- With hexagonal head.
- Electrolytically zinc plated.
- As per DIN 13, part 12, rolled thread.
- Steel grade 4.8.
- In accordance with DIN 571.



type	article number	spanner [SW]	dimensions [mm]		
			L	Ø	
HZ 8 x 50	10-70606	13	50	8	50

AS Wedge Anchors

- Suitable for use in non-cracked concrete and natural stone.
- AS 8 x 75 to AS 8 x 115 with marking for standard and reduced anchoring depth.
- AS 8 x 75 to AS 8 x 115 with ETA approval. With extra large S 8s 8 x 28 washer as standard.
- Electrolytically zinc plated.



type	article number	connection	dimensions [mm]		drill hole Ø [mm]	
			L	spanner size (SW)		
AS 8 x 50**	10-82030	M8	50	13	8	100
AS 8 x 75	10-82035	M8	75	13	8	100

** Without ETA approval.



AS - Technical specifications

type	standard anchorage depth					reduced anchorage depth				
	drill depth [mm]	setting depth [mm]	anchorage depth [mm]	shear Load [kN]	pull-out Load [kN]	drill depth [mm]	setting depth [mm]	anchorage depth [mm]	shear Load [kN]	pull-out Load [kN]
AS 8 x 50	45	35	24	5	5	-	-	-	-	-
AS 8 x 75	65	59.5	48	5.3	5	50	46.5	35	5.3	4.2

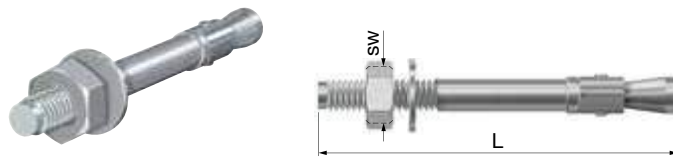
AS - Fire performance

type	setting depth [mm]	max. working load [N]			
		30 min.	60 min.	90 min.	120 min.
AS 8 x 75	59.5	800	660	520	450

AS-S Seismic Wedge Anchors

Certified for seismic loading, performance categories C1 and C2 (at standard anchoring depth).

- Approved for use in cracked and non-cracked concrete, steel beams, base plates channels, tracks and wood structures.
- Suitable for use in compression resistant natural stone (without approval).
- Two effective anchoring depths for greater flexibility.
- Electrolytically zinc plated.



type	article number	connection	dimensions [mm]		drill hole Ø [mm]	
			L	spanner size (SW)		
AS-S 8 x 75	10-82070	M8	75	13	8	100
AS-S 8 x 95	10-82071	M8	95	13	8	100
AS-S 8 x 115	10-82072	M8	115	13	8	100
AS-S 10 x 90*	10-82073	M10	90	13	10	50
AS-S 10 x 130*	10-82074	M10	130	13	10	50

* FM approved.



AS-S - Technical specifications

type	standard anchorage depth					reduced anchorage depth				
	drill depth [mm]	setting depth [mm]	anchorage depth [mm]	shear Load [kN]	pull-out Load [kN]	drill depth [mm]	setting depth [mm]	anchorage depth [mm]	shear Load [kN]	pull-out Load [kN]
AS-S 8 x 75	60	52	46	7	5	49	41	35	7	5
AS-S 8 x 95	60	52	46	7	5	49	41	35	7	5
AS-S 8 x 115	60	52	46	7	5	49	41	35	7	5
AS-S 10 x 90	75	68	60	11.5	9	55	48	40	10.4	7.5
AS-S 10 x 130	75	68	60	11.5	9	55	48	40	10.4	7.5

AS-S - Fire performance

type	standard setting depth [mm]	max. working load [N]				reduced setting depth [mm]	max. working load [N]			
		30 min.	60 min.	90 min.	120 min.		30 min.	60 min.	90 min.	120 min.
AS-S 8 x 75	52	1500	1100	800	700	41	1500	1100	800	600
AS-S 8 x 95	52	1500	1100	800	700	41	1500	1100	800	600
AS-S 8 x 115	52	1500	1100	800	700	41	1500	1100	800	600
AS-S 10 x 90	68	2600	1900	1400	1200	48	2600	1900	1300	1000
AS-S 10 x 130	68	2600	1900	1400	1200	48	2600	1900	1300	1000

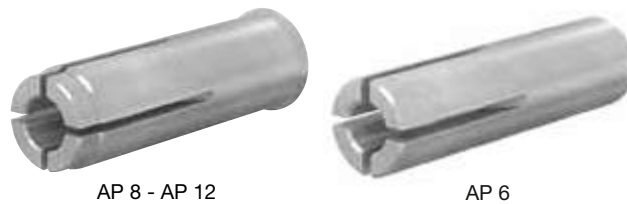
AP Drop In Anchors

For indoor use. Suitable for:

- Reinforced and non-reinforced concrete according to EN 206-1: 200.
- Suitable for cracked and non-cracked concrete.
- Concrete with strength classes from C20/25 to C50/60.
- Suitable for environments that require fire safety.
- With collar (AP 8 - AP 12) to prevent the anchor being struck too deep into the hole.
- With metric internal thread for use in combination with threaded rods and bolts.
- Electrolytically zinc plated.
- For use in combination with an APP pin only.

AP 10 - 12: With FM approval.

AP 10 - 12: In full compliance with the guideline VdS CEA 4001: 2014-04 (05) for applications of water extinguishing systems on concrete elements.



type	article number	connection	drill Ø [mm]	drill depth [mm]	rec. tensile load* [kN]	min. mutual distance at max. workload [mm]	min. distance to concrete edge at max. workload [mm]	
AP 6	10-82000	M6	8	30	3.0	55	95	100
AP 8	10-82001	M8	10	33	3.0	60	95	100
AP 10**	10-82002	M10	12	44	4.8	100	135	100
AP 12**	10-82003	M12	15	54	6.4	120	165	50

* In non-cracked concrete C20/25 - C50/60.

** FM approval.



AP - Fire performance

type	setting depth [mm]	max. working load [N]			
		30 min.	60 min.	90 min.	120 min.
AP 6	30	400	300	300	300
AP 8	30	900	800	600	500
AP 10	40	1600	1300	1000	800
AP 12	50	2300	1900	1400	1200

APP Pin

For AP push-in anchor.



type	article number	connection	
APP 8	10-82006	M8	1
APP 10	10-82007	M10	1

AB Brass Drop In Anchor



For indoor and outdoor applications.

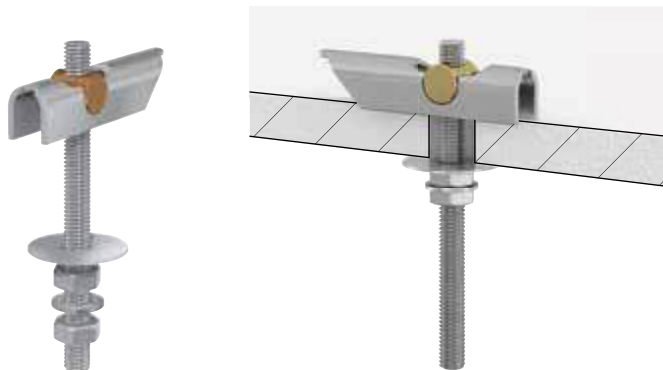
- Corrosion resistant.
- Can be applied without using a hammering pin. The anchor expands when screwing in bolts / threaded rod.
- With metric internal thread.

type	article number	connection	
AB 8	10-82011	M8	100
AB 10	10-82012	M10	100

AT Tipping Dowels

Special dowel for fastening to cavity walls and ceilings, suspended ceilings and corrugated roofing sheets. The turnable treaded rod allows each fastening point to be levelled individually.

- With large washer.



type	article number	connection	L. [mm]	drill Ø [mm]	max.working load [N]	
AT 8 x 100	10-82025	M8	100	22	4000	50
AT 10 x 100*	10-82026	M10	100	25	6500	25

* With FM-approval.



PP Plastic Plug



type	article number	dimensions [mm]		drill Ø [mm]	drill depth [mm]	Suitable for	
		Ø	L.				
PP 10 x 50	10-70702	10	50	10	60	M8	100
PP 12 x 60	10-70703	12	60	12	70	M10	100

mounting tools

For the easy tightening of wood screw studs, coach screws and studs.

Drive Tool



- Electrolytically zinc plated.
- One assembly spanner with four different thread sizes.
- Rotating lever.

type	article number	connection	
Drive tool	10-71400	M6/M8/M10/M12	50

VSH FastFix threaded end bit set

Threaded end bit set supplied in a soft case.



type	article number	connection	
threaded end bit set	10-71401	M6/M8/M10/M12	20

connectors

AD Adapters

For a rigid construction with a BS universal clip.

- Electrolytically zinc plated.
- Can be used in conjunction with a GP ½" backplate.

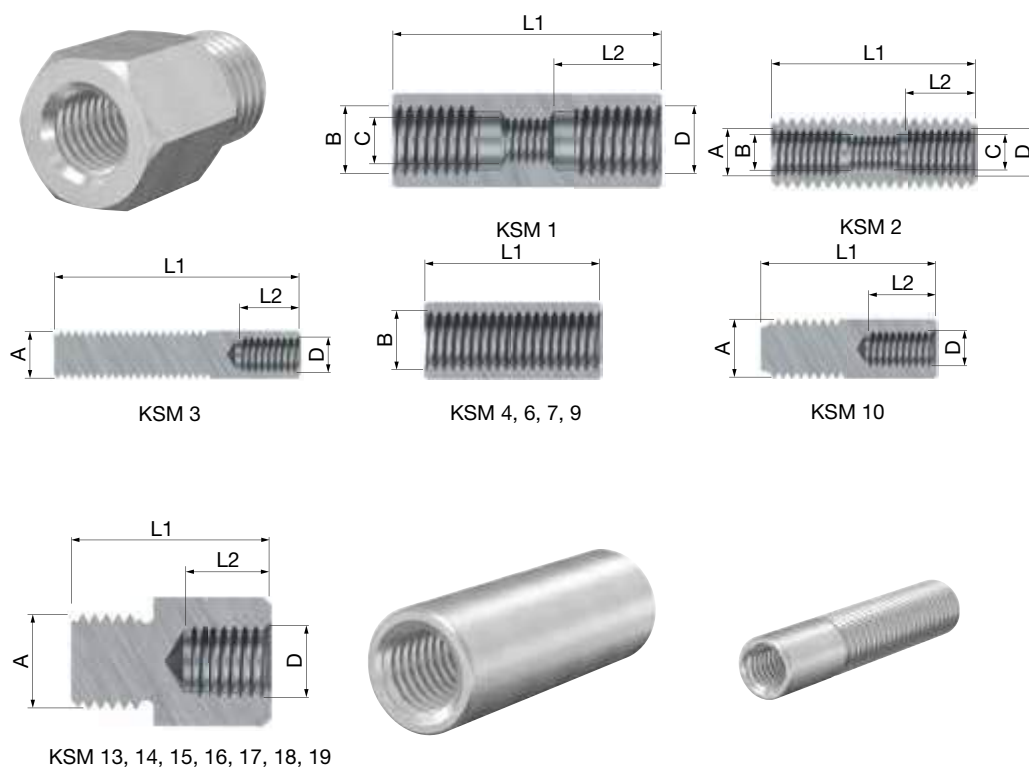


type	article number	connection		dimensions [mm]		
		D1	D2	B	L	
AD 8 x ½	10-70914	M8 M	½" F	26	31	100
AD 10 x ½	10-70915	M10 M	½" F	26	33	100
AD ½ x ¾	10-70922	½" F	¾" F	31.5	26	100

KSM Connectors

For connecting BK pipe hangers under each other, two threaded rods, or BS universal clips.

- Electrolytically zinc plated.
- As per DIN 13, part 12, rolled thread.



type	article number	connection				dimensions [mm]		shape	
		A (M)	B (F)	C (F)	D (F)	L 1	L 2		
KSM 2	10-70902	M12	M8	M6	M8	35	10	round	25
KSM 3	10-70903	M8	-	-	M6	42	8	round	25
KSM 4	10-70904	-	M10	-	-	30	-	hex.	25
KSM 6	10-70906	-	M6	-	-	20	-	hex.	25
KSM 7	10-70907	-	M8	-	-	25	-	hex.	25
KSM 9	10-70909	-	M12	-	-	30	-	hex.	25
KSM 10	10-70910	M10	-	-	M6	30	10	round	500
KSM 13	10-70913	M8	-	-	M10	22	7	hex.	25
KSM 14	10-70917	M10	-	-	M12	25	7	hex.	25
KSM 15	10-70918	M12	-	-	M10	23	7	hex.	25
KSM 17	10-70919	M12	-	-	M16	35	12	hex.	25
KSM 18	10-70920	M16	-	-	M12	34	12	hex.	25
KSM 19	10-70921	M10	-	-	M8	21.5	8	hex.	25

Sleeve



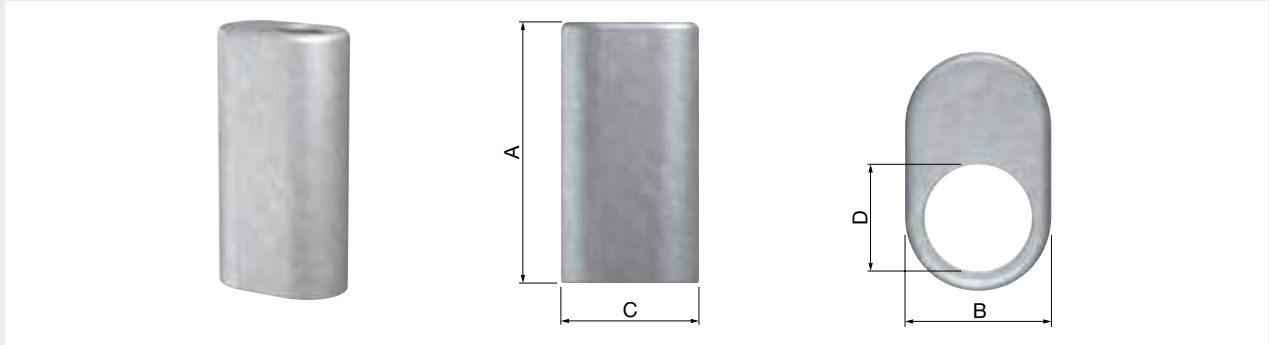
To make connections between clips, backplates and threaded tubes.

type	article number	connection	
Sleeve ½	10-52810	½" F	100

PV parallel connectors

For the easy and fast connection of two threaded rods of the same diameter.

- Zamac.
- Vertical adjustment possible.
- Safety margin for minimum breaking load (V) = 3.

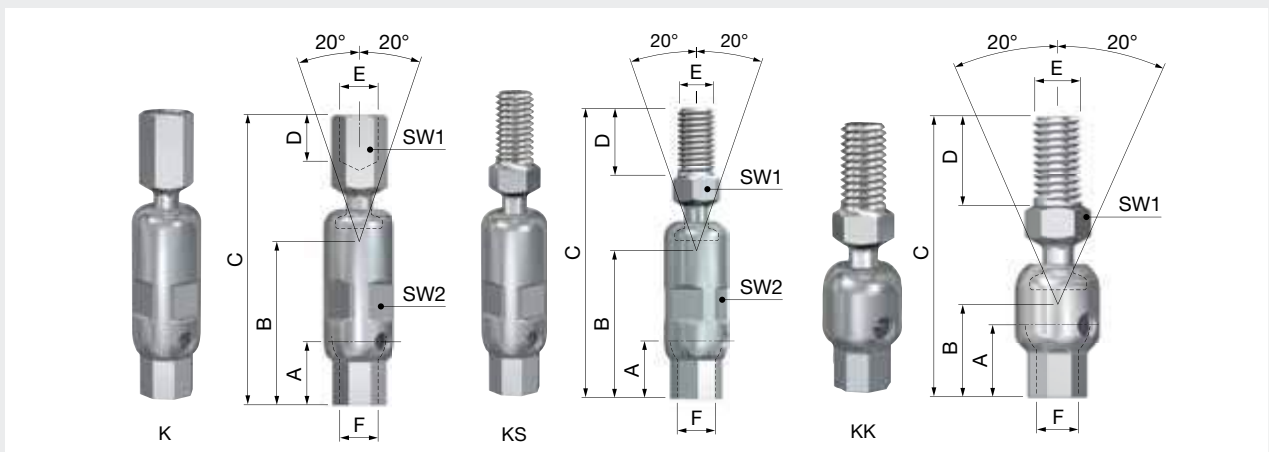


type	article number	connection	dimensions [mm]				max. working load [N]	
			A	B	C	D		
PV 8	10-70951	M8	34	11	18.5	8	2800	50
PV 10	10-70952	M10	35	14	23	10	2800	50

K ball hangers

For a flexible and vertically adjustable suspension.

- Electrolytically zinc plated.
- Maximum swing of the ball element: 2 x 20°.
- Vertically adjustable by turning lowest part of the ball hanger after fitting the pipe.
- Inspection hole for checking length of rod inside the hanger.
- Safety margin for minimum breaking load (V) = 3.



type	article number	connection		dimensions [mm]						max. working load [N]	
		E	F	C	A	B	D	SW1	SW2		
K 6 x 6	10-80103	M6 F	M6 F	58	8	30	8	10	12	1500	50
K 12 x 12	10-80105	M12 F	M12 F	90	8	30	13	19	24	5000	50
KS 8 x 8	10-80111	M8 M	M8 F	63	8	30	15	10	12	2500	50
KS 10 x 10	10-80106	M10 M	M10 F	64	8	30	15	13	13	2500	50

eye bolts

EB female suspension eye



Forged cast iron, zinc plated.

type	article number	connection	
EB 25 - 8	10-33267	M8	250

eye bolts



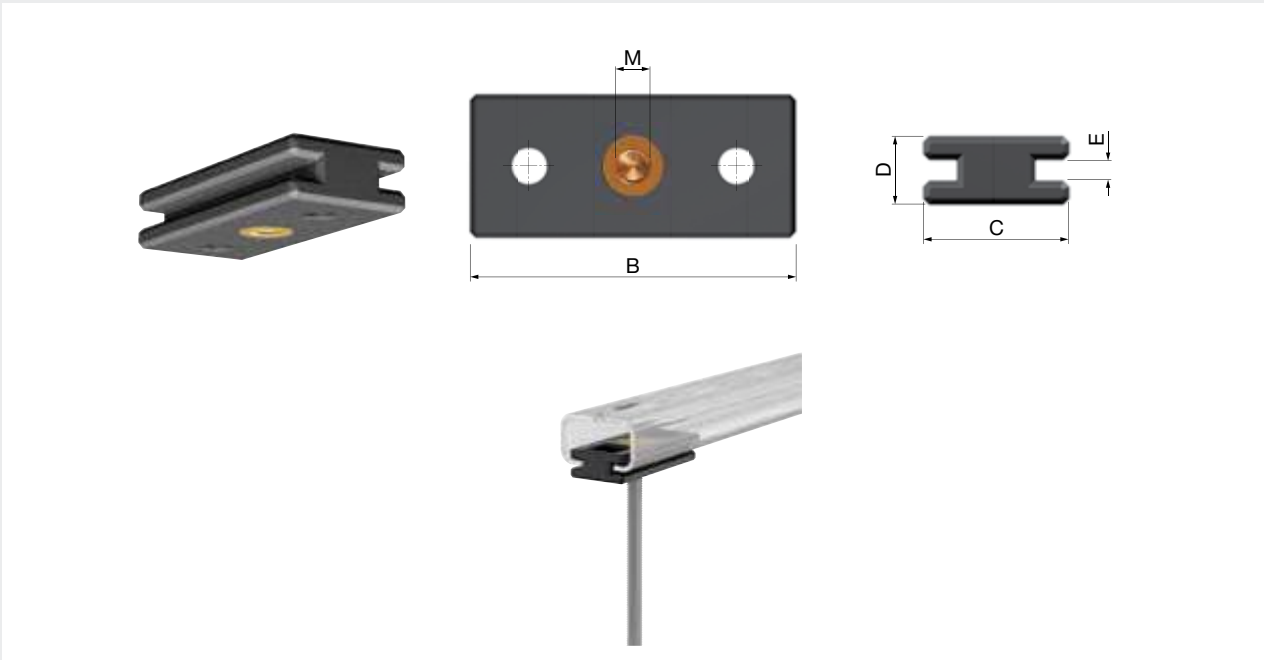
type	article number	version	connection thread	
Copper screw eye	10-52808	Copper	M6 x 24	100
Chrome/nickel alloy screw eyes	10-52806	Chrome/nickel alloy	M6 x 24	100

expansion units

The expansion units are specially designed to allow for thermal expansion along the length of the pipe. This makes for a superb and solid joint which if necessary can move with the pipe.

GK 50 Expansion Units

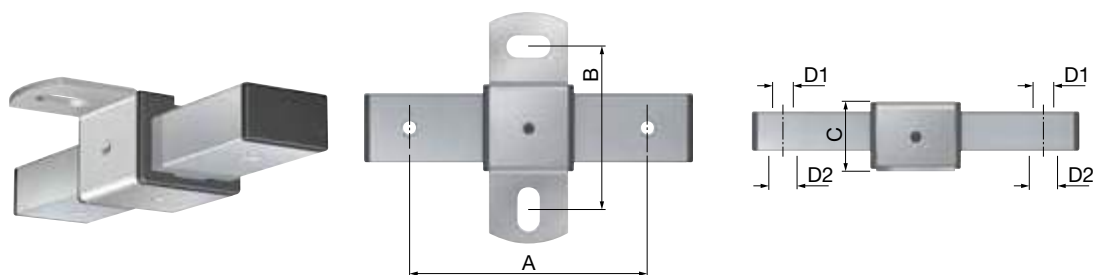
- Sliding block: nylon PA 6.
- Threaded connection: brass.
- Suitable for any type of VSH FastFix rail.
- Maximum axial movement depends on rail length.



type	article number	connection (M)	dimensions [mm]				max. working load [N]	
			B	C	D	E		
GK 50 - M8	10-71722	M8	55	24	11	3.4	500	50

GK 150 Expansion units

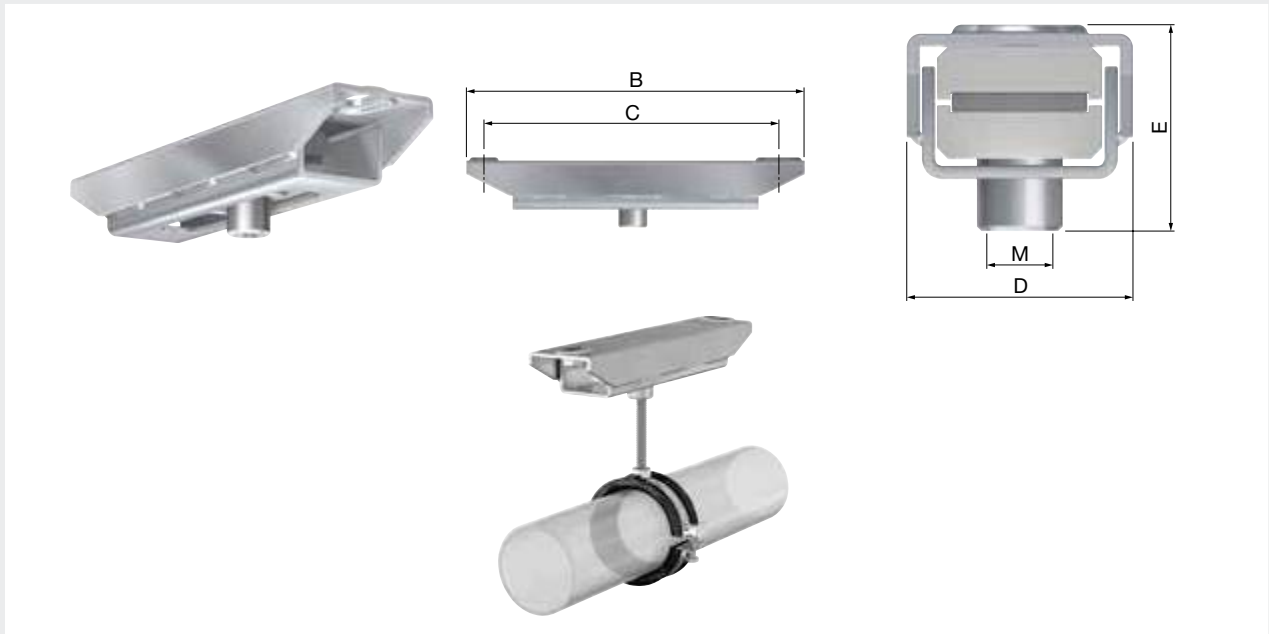
- Backplate S235JR EN 10250/2: electrolytically zinc plated.
- Carriage holder: nylon PA 6.
- Tube S235JR EN 10250/2: electrolytically zinc plated.
- Plate stop: plastic.
- Standard axial movement 60 mm.
- Enlarged axial movement when VSH FastFix rail R2 is used instead of pipe.
- slotted holes for accurate adjustment of the expansion unit.
- Suitable for different threaded connections.



type	article number	connection		dimensions [mm]					max. working load [N]	
		D1	D2	A	B	C	ground plate	slotted hole		
GK 150 - M8/10	10-71724	M8	M10	120	82	35	117 x 140	11 x 22	1500	10

GK 500 expansion units

- Carriage holder S235JR EN 10250/2: electrolytically zinc plated.
- Sliding block: nylon PA 6.
- Pressure plate S235JR EN 10250/2: electrolytically zinc plated.
- Maximum axial movement 90 mm.
- Pressure plate completely enclosed in sliding block.
- slotted holes for accurate adjustment of the expansion unit.



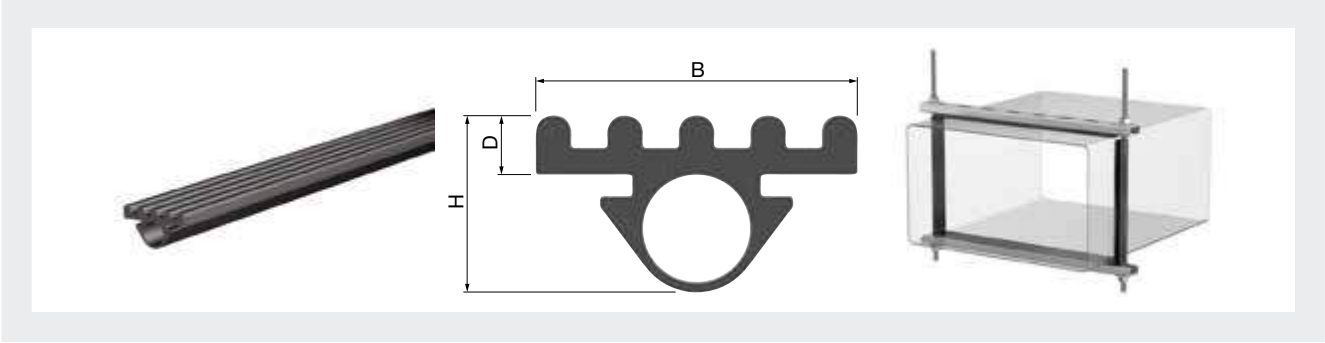
type	article number	connection (M)	dimensions [mm]					max. working-load [N]	
			B	C	D	E	slotted hole		
GK 500 - M10	10-71714	M10	220	195	50	45	11 x 22	5000	10
GK 500 - M12	10-71716	M12	220	195	50	45	11 x 22	5000	10

noise-suppression strips

Suitable for VSH FastFix rail and threaded rods.

- Rubber: EPDM.
- At normal frequency and pressure range, noise suppression 20 dB(A).
- Suitable for temperatures from -40°C up to +120°C.
- Electrical values: specific resistance: $2 \times 10^9 \Omega \text{cm}^2$.
- Surface resistance: $2 \times 10^9 \Omega$.
- Breaking elongation: 400%.
- Tensile strength: 500 N/cm².
- Impact resilience: 35%.

SR 4 Strips



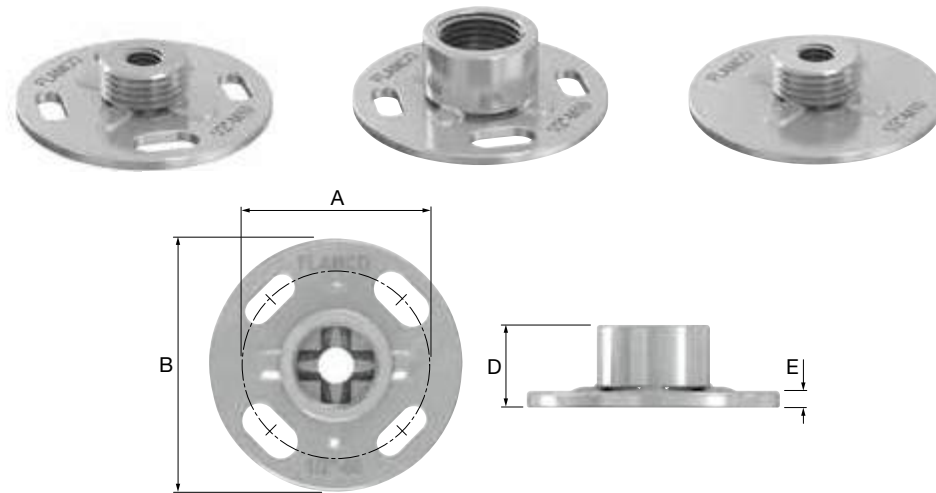
type	article number	dimensions [mm]			suitable for	
		B	H	D		
SR 4	10-71114	30	16.5	7	threaded rod M8 / Rail R1 - R8	20 m

backplates

For a rigid wall or ceiling fastening of a clip by means of a threaded rod/pipe.

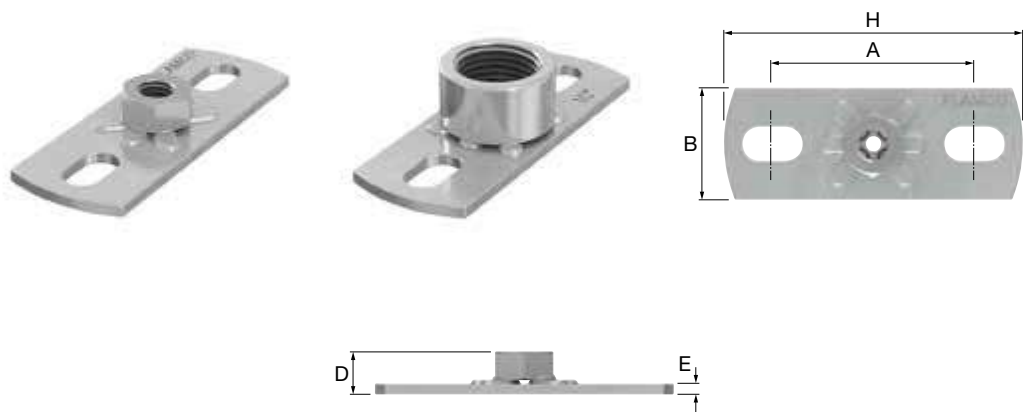
- Electrolytically zinc plated.
- slotted holes for fixing.
- Can also be used in fixed point constuctions, in combination with KB clips or BVP bracket, fixed point.

GP backplates Ø 60



type	article number	connection	dimensions [mm]				slotted hole	
			A	B	D	E		
GP ½ - 60	10-39416	½" F	44	Ø 60	18	3	15 x 8 / 14 x 6	50
GP round with slotted hole	10-39422	½" M/M10 F	44	Ø 60	13	3	15 x 8 / 14 x 6	50
GP round without slotted hole	10-39423	½" M/M10 F	-	Ø 60	13	3	-	50

GP backplates 80 x 30

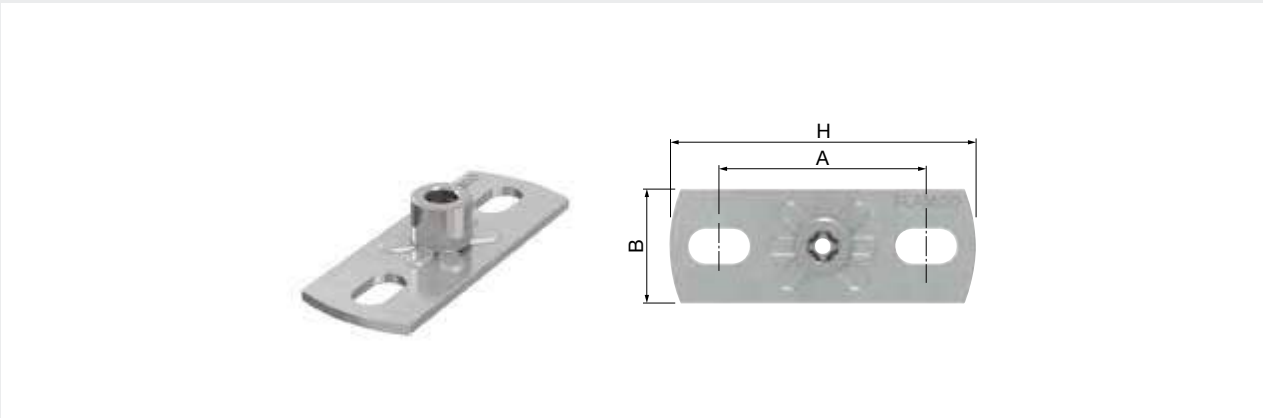


type	article number	connection	dimensions [mm]					slotted hole	
			A	B	H	D	E		
GP 8 / 10 - 80 x 30	10-39410	M8/10	54	30	80	18	3	9 x 16	50
GP 8 - 80 x 30*	10-39417	M8	54	30	80	11	3	9 x 16	50
GP 10 - 80 x 30*	10-39413	M10	54	30	80	13	3	9 x 16	50
GP 12 - 80 x 30	10-39415	M12	54	30	80	15	3	9 x 16	50
GP ½ - 80 x 30*	10-39418	½" F	54	30	80	18	3	9 x 16	50
GP ½ / M10 - 80 x 30*	10-39409	½" M/M10 F	54	30	80	11	3	9 x 16	50

*Also available in stainless steel (Inox V 4 A, 1.4435).

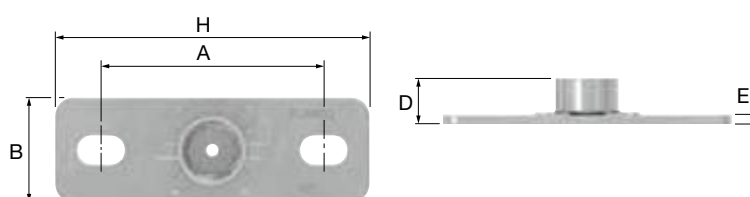
GP-C Backplates 80 x 30

- Safety margin for minimum breaking load (V) = 3.



type	article number	connection	max. working load [N]	max. torque [Ncm]	dimensions [mm]			
					A	B	H	
GP-C M8 - 80 x 30	10-39400	M8	600	1250	54	30	80	50

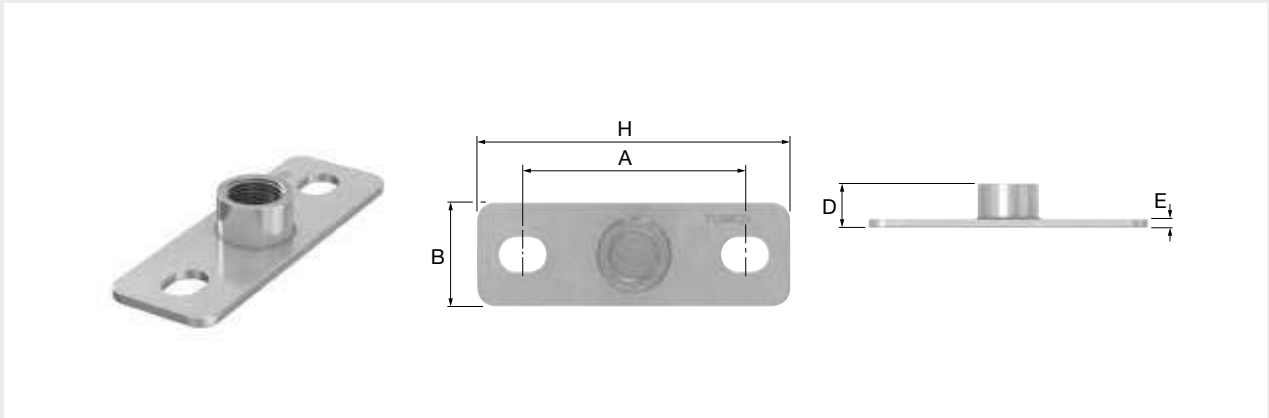
GP backplates 120 x 40



type	article number	connection	max. vert. working load [N]	dimensions [mm]					slotted hole	
				A	B	H	D	E		
GP 8 - 120 x 40	10-39432	M8	2000	85	40	120	12	4	11 x 18	50
GP 10 - 120 x 40	10-39433	M10	2500	85	40	120	14	4	11 x 18	50
GP 1/2" / M10 - 120 x 40	10-39442	1/2" M/M10 F	4500	85	40	120	12	4	11 x 18	50
GP 12 - 120 x 40	10-39434	M12	3000	85	40	120	16	4	11 x 18	50
GP 1/2" - 120 x 40	10-39419	1/2" F	10000	85	40	120	19	4	11 x 18	50
GP 3/4" - 120 x 40	10-39411	3/4" F	6000	85	40	120	19	4	11 x 18	50
GP 1" - 120 x 40	10-39412	1" F	6500	85	40	120	25	4	11 x 18	50

GPS Backplates 120 x 40

- Welded all around.



type	article number	connection	dimensions [mm]					slotted hole	
			A	B	H	D	E		
GPS ½ - 120 x 40	10-39437	G½" F	85	40	120	19	4	13 x 18	50
GPS ¾ - 120 x 40	10-39438	G¾" F	85	40	120	21	4	13 x 18	50
GPS 1 - 120 x 40	10-39439	G1" F	85	40	120	25	4	13 x 18	50

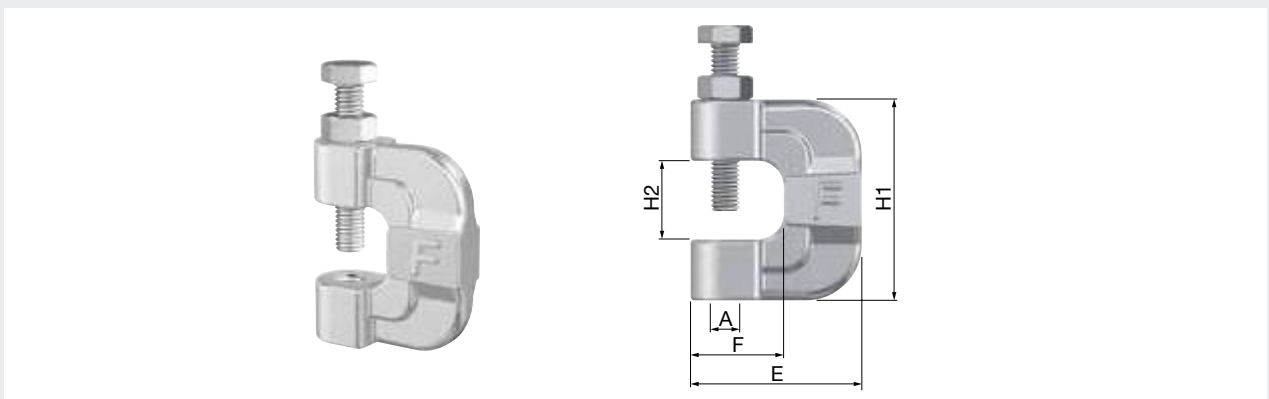
profile fixings

For fixing a single suspension under a steel profile, without the need for drilling or welding. They are available in different threaded connections and some versions may be adjusted vertically after fixing.

KC Profile Clamps

For securing a single mounting next to or under a steel profile without welding or drilling.

- Forged steel C 22/C 35 - DIN 17200.
- Bolt: steel DIN 564-8.8.
- Electrolytically zinc plated.

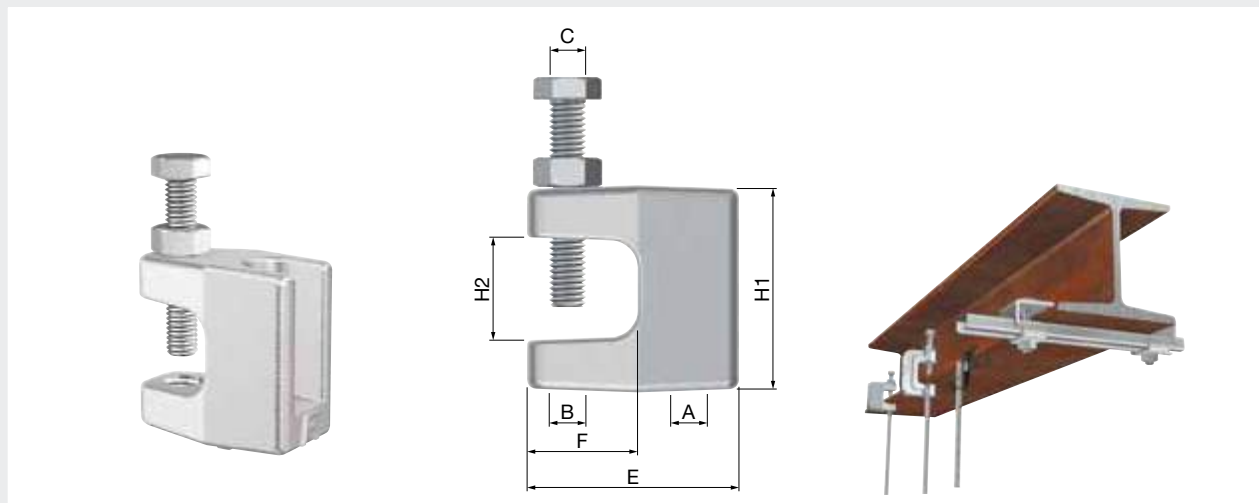


type	article number	connection A	max flange thickness [mm]	bolt	max. working load [N]	dimensions [mm]				treatment	
						H1	H2	E	F		
KC 8	10-71522	M8	18	M8 x 45	3800	54	21	46	25	zinc plated	25

KCK Profile Clamps

For securing a single mounting next to or under a steel profile without welding or drilling.

- Malleable cast iron, KCK GTS 45 - DIN 1692.
- Steel bolt: steel DIN 564-8.8.
- Electrolytically zinc plated.
- Vertically adjustable.
- The bottom provided with two different threaded connections.



type	article number	connection (A - B)	max flange thickness [mm]	bolt	max. working load [N]	dimensions [mm]				treatment	approval	
						H1	H2	E	F			
KCK 6	10-71535	M6 - M8	18	M6 x 35	2100	45	21	46	24	zinc plated	-	25
KCK 8	10-71536	M8 - M10	18	M8 x 45	3800	45	21	46	24	zinc plated	-	25
KCK 10	10-71537	M10 - M8	18	M10 x 45	4500	45	21	46	24	zinc plated	FM	25
KCK 12	10-71538	M12 - M12	18	M10 x 45	5000	45	21	46	24	zinc plated	FM	25



AS Anchor strips

Anchor strips for use with BC profile clamps.

May be required for VdS approval. See VdS certificates of profile clamps (on website) for details.

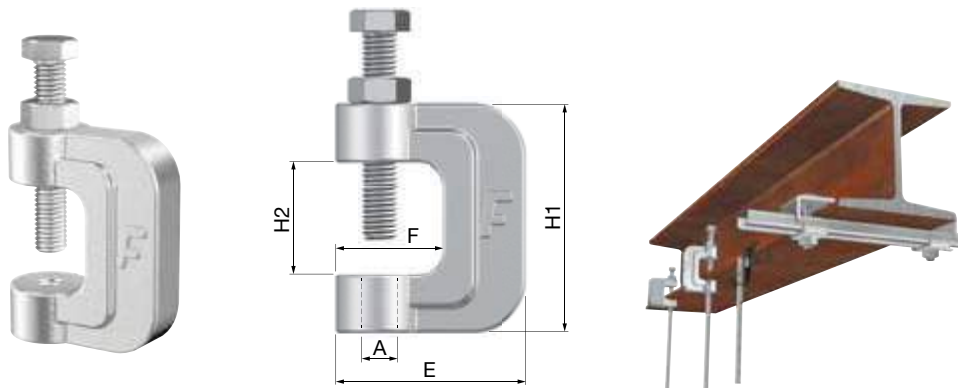


type	article number	suitable for	length	dimensions [mm]		
				width	depth	
AS 1	10-71700	BC	350	25	3	50

KCH Profile Clamps

For securing a single mounting next to or under a steel profile without welding or drilling.

- Forged steel C 22/C 35 - DIN 17200.
- Bolt: steel DIN 564-8.8.
- Electrolytically zinc plated.

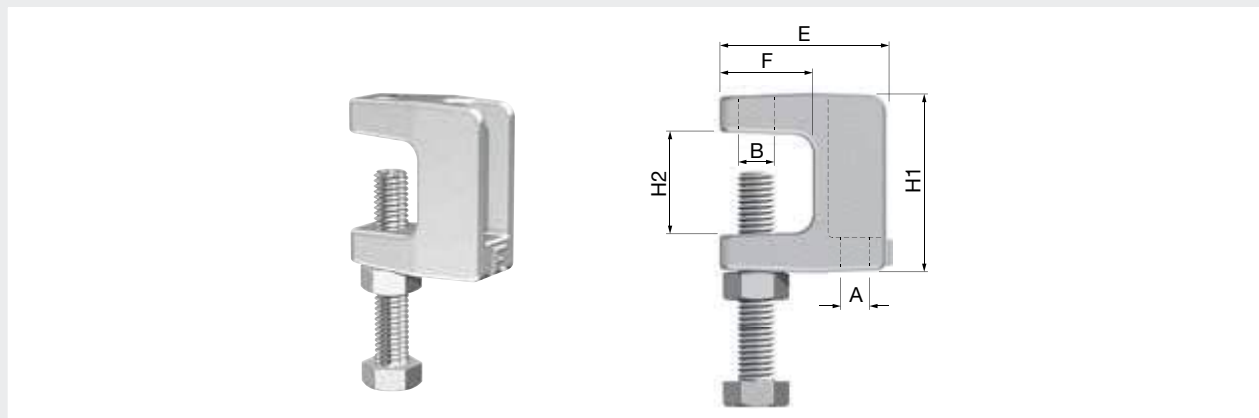


type	article number	connec- tion (A)	max. flange thickness [mm]	bolt	max. working load [N]	dimensions [mm]				
						H1	H2	E	F	
KCH 8	10-71541	M8	30	M10 x 60	3800	65	32	54	30	25
KCH 10	10-71542	M10	30	M10 x 60	6000	65	32	54	30	25
KCH 12	10-71543	M12	30	M12 x 60	6000	65	32	54	30	25
KCH 16	10-71544	M16	30	M12 x 60	6000	65	32	54	30	25

KCL Profile Clamps

For securing a single mounting next to or under a steel profile without welding or drilling.

- Malleable cast iron, KCL GTS 35 - DIN 1692.
- Steel bolt: steel DIN 564-8.8.
- Electrolytically zinc plated.
- Vertically adjustable.
- The bottom is provided with two different threaded connections.

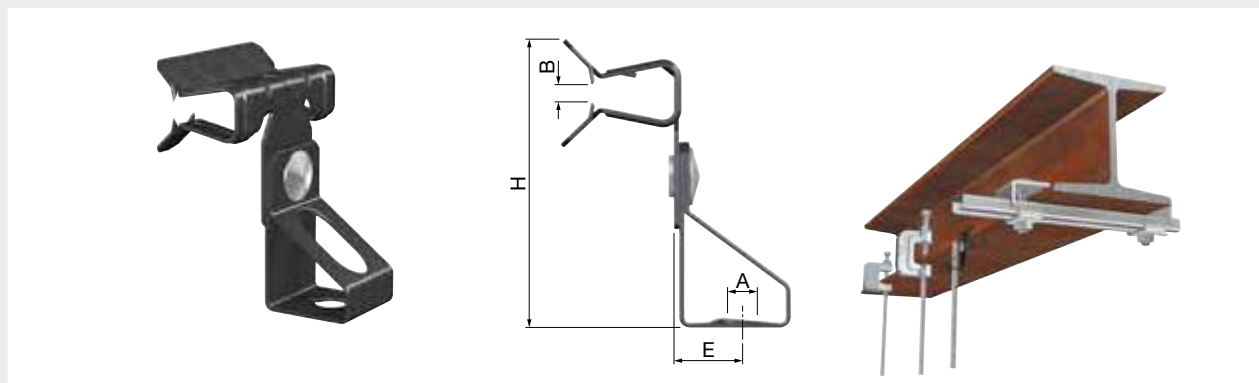


type	article number	connection		max flange thickness [mm]	bolt	max. working load [N]	dimensions [mm]				treatment	
		A	B				H1	H2	E	F		
KCL 6	10-71570	M6	M6	18	M6 x 35	2100	39	21	36	20	zinc plated	25
KCL 8	10-71571	M8	M8	18	M8 x 45	2500	39	21	36	20	zinc plated	25

KVS-D Profile Clamps

For mounting a suspension to a steel profile without drilling or welding.

- Black spring steel.
- Hinged fixture.
- Vertically adjustable.
- Fast assembly with a hammer.



type	article number	connection (A)	flange thickness B	dimensions [mm]		max. working load [N]	treatment	
				H	E			
KVS-D 8 x 4,8 - 9,5	10-71557	M8	4.8 x 9.5	50	10	700	Untreated	250

BC Profile Clamps

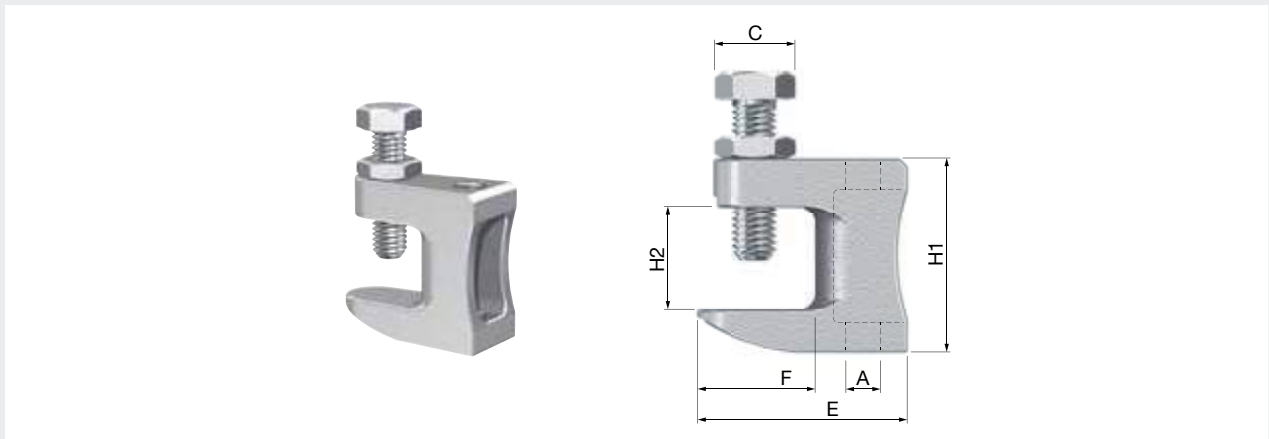
For securing a single mounting next to or under a steel profile without welding or drilling.

- Forged steel.
- Electrolytically zinc plated.

Conditions for VdS approval:

- BC 8 to 11 suitable for pipes up to and including DN 65.
- BC 8 to 11 suitable for pipes up to and including DN 100 when using AS 1 anchor strip (10-71700).
- BC 12 suitable for pipes up to DN 125.
- BC 12 suitable for pipes up to DN 150 when using AS 1 anchor strip (10-71700).

These conditions do not apply if the VdS quality mark is not required.



type	article number	connection A	bolt (C)	max. working load [N]	H1	H2	E	F	
BC 8	10-71506	M8	M8 x 30	1200	37	18	38	21	50
BC 10	10-71507	M10	M10 x 40	2500	42	19	44	23	50
BC 12	10-71508	M12	M10 x 40	3500	54	25	58	35	50
BC 9	10-71510	Ø 9	M8 x 30	1200	37	18	38	21	50
BC 11	10-71511	Ø 11	M10 x 40	2500	42	19	44	23	50

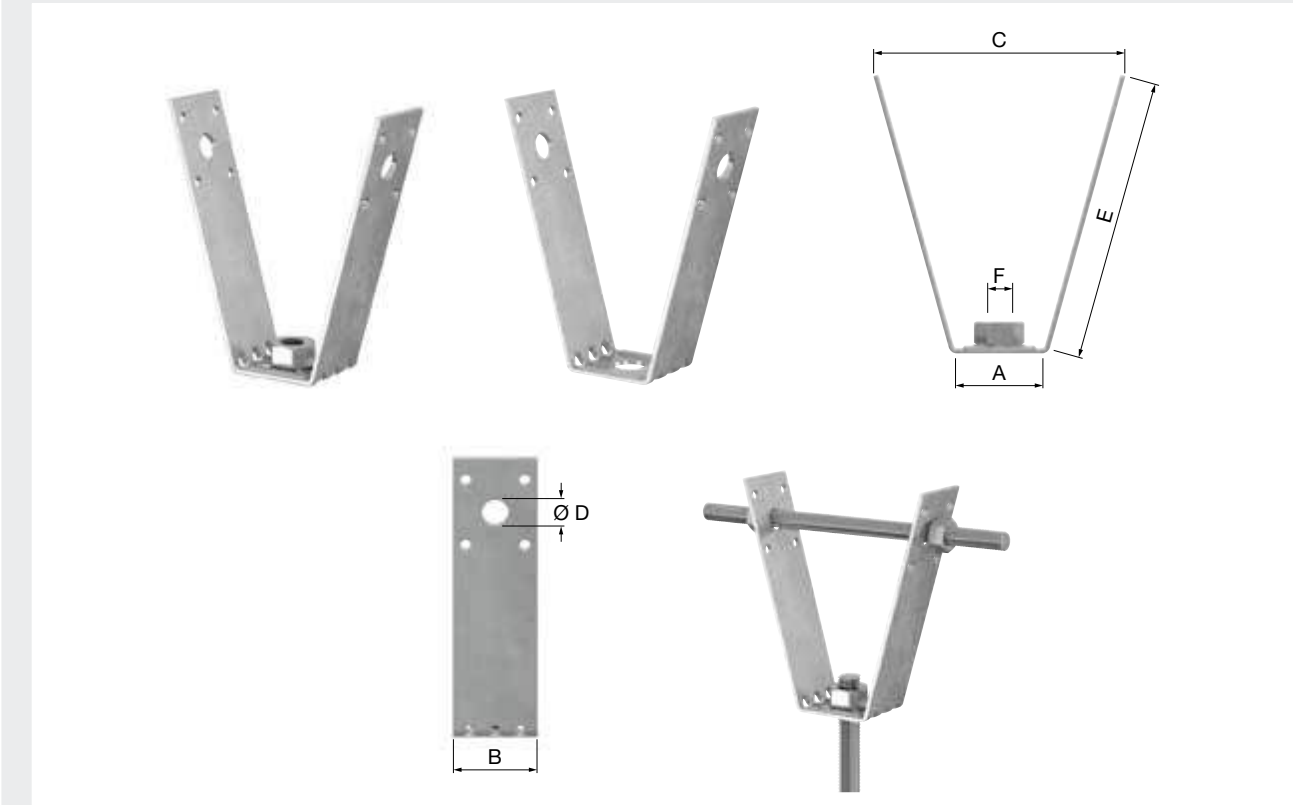
trapezium fixings

For mounting threaded rod to steel roof profiles.

- Electrolytically zinc plated.
- LTM: with welded nut.
- LTV: vertical re-adjustment by turning the lowest part of the threaded bush, after mounting the threaded rod.

Trapezium Fixings

- Threaded rod not included.
- Maximum working load: 1.6 kN (for roof profile thickness of 1 mm).



type	article number	dimensions [mm]					connection (F)	
		A	B	C	D	E		
LTM8	10-71910	32	30	90	10.5	100	M8	10
LTM10*	10-71912	32	30	90	10.5	100	M10	10

* LTM10 FM approved in combination with clips ranging from 3/4" to 3".



Trapezium Pliers



For an easy way to make holes in the roof profile for fastening the LT series trapezium fixings.

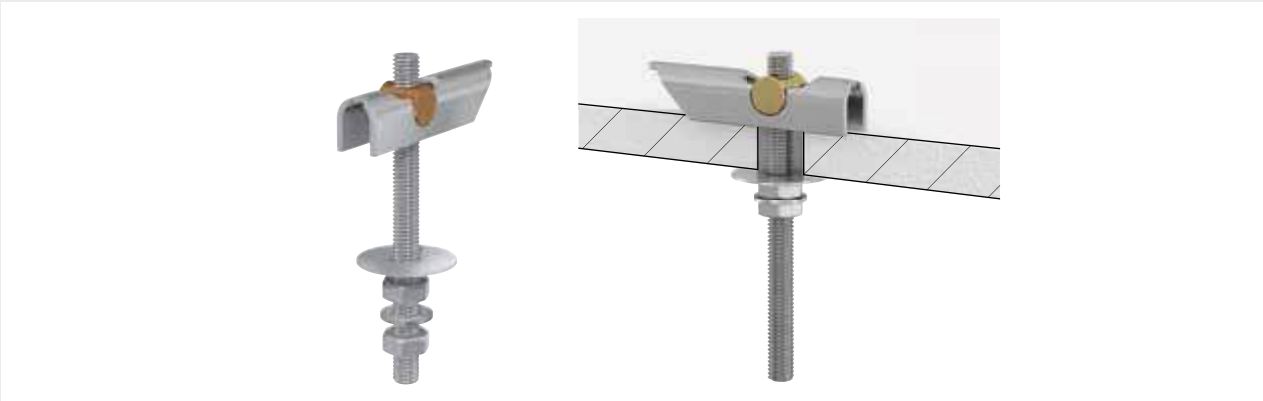
- With hardened cutting tips.
- Spring-loaded to prevent the cutting tips getting stuck in the profiled roofing sheet.
- Ø punch holes: 10 mm.
- Maximum punch width: 100 mm.
- Adjustable height: 35 mm - 105 mm.

type		article number
PT	1	10-27929

AT Tipping Dowels

Special dowel for fastening to cavity walls and ceilings, suspended ceilings and corrugated roofing sheets. The turnable treaded rod allows each fastening point to be levelled individually.

- With large washer.



type	article number	connection	L. [mm]	drill Ø [mm]	max. working load [N]	
AT 8 x 100	10-82025	M8	100	22	4000	50
AT 10 x 100*	10-82026	M10	100	25	6500	25

* With FM-approval.



backplate assemblies

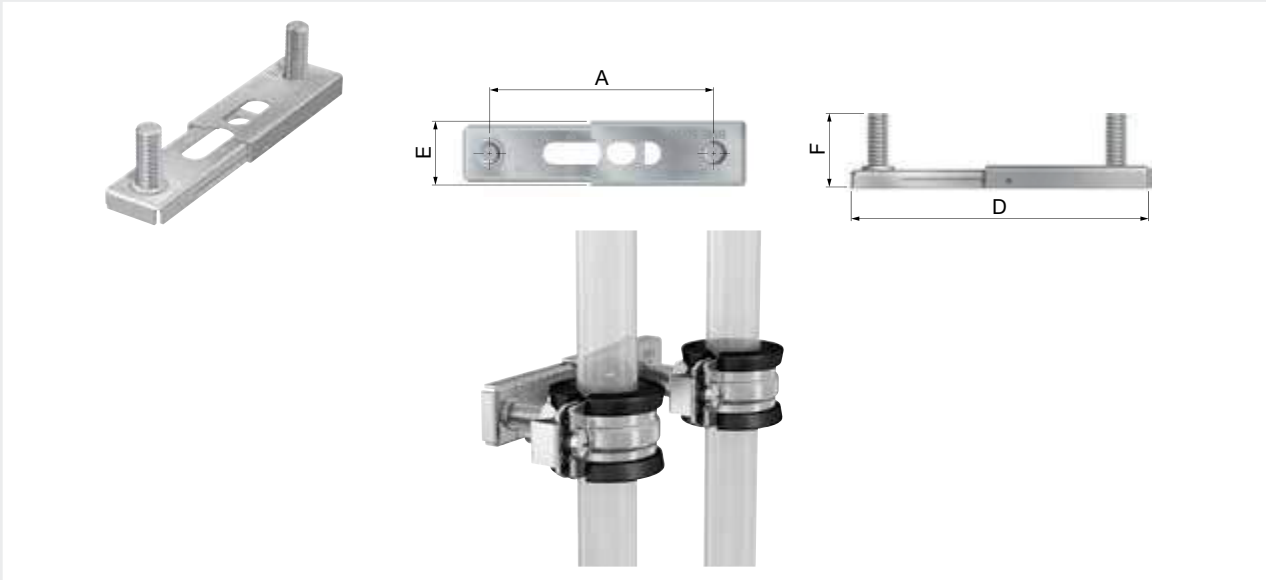
For use in combination with VSH FastFix BS universal clips.

- Electrolytically zinc plated.

BME Backplate Assembly

For double wall clip mounting.

- Rigid pipe installation as a result of fixed centres.
- Relative centres adjustable.

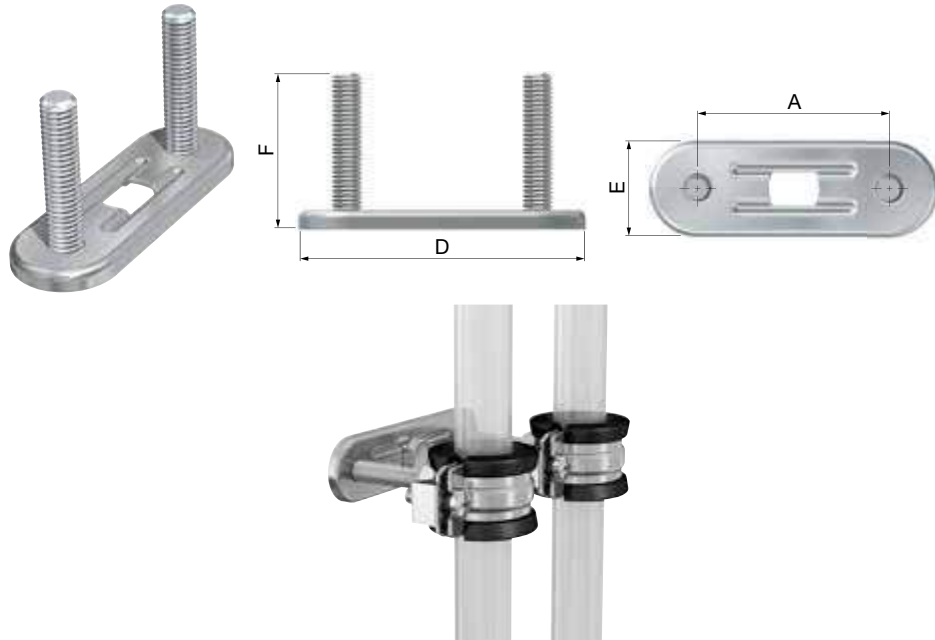


type	article number	connection	dimensions [mm]					
			Ø hole	A	D	E	F	
BME 8 x 50/90	10-39420	M8	8	50 - 90	72 - 112	25	29	100

BMD Backplate Assemblies

For double wall clip mounting.

- Rigid pipe installation as a result of fixed centres.
- Complete with wood screw stud, washer and plastic plug.
- Electrolytically zinc plated.



type	article number	connection	dimensions [mm]					
			Ø hole	A	D	E	F	
BMD 8 x 50	10-39424	M8	8	50	76	25	40	100
BMD 8 x 70	10-39426	M8	8	70	96	25	40	100
BMD 8 x 90	10-39428	M8	8	90	116	25	40	100

fixed point constructions

VG Angle Plate

For construction of heavy fixed points, adjustable suspensions and supports.

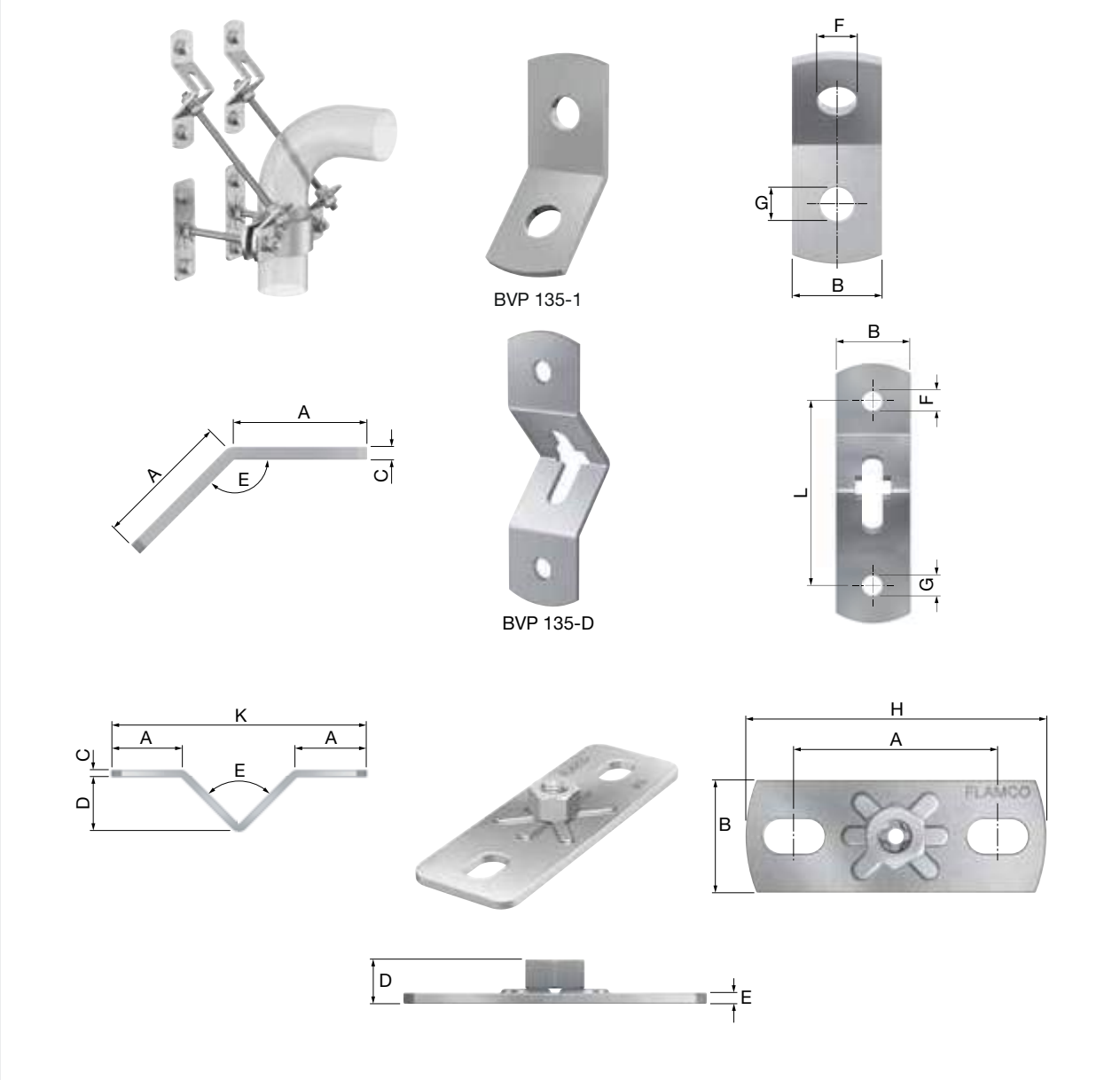
- Specially suited for fixed point constructions in combination with fixed point clips (RSF clips 3" - 12" / KB clips up to 12").
- Supplied with slotted holes suitable for M10.
- Up to three brackets can be mounted side by side on the VG angle plate.
- Electrolytically zinc plated.
- Maximum adjustable height: 170 mm.

type	article number	dimensions [mm]									
		A	B	C	D	E	K	L	M	S	
VG 140 x 100 x 3	10-71616	40	100	18.5	140	25	50	11	10	3	11
VG Fixed point construction Set*	10-71617	-	-	-	-	-	-	-	-	-	-

* Set consists of 4 VG angle plates, 6 tap bolts, 6 nuts and 12 washers.

BVP Fixed Point Construction Set

- Consisting of 2x BVP-1, 2x BVP-D en 2x GP 10 120 x 40.
- Electrolytically zinc plated.
- For fixed point clips from 2".



type	article number	
BVP Fixed Point Construction Set	10-71629	10

Dimensions BVP

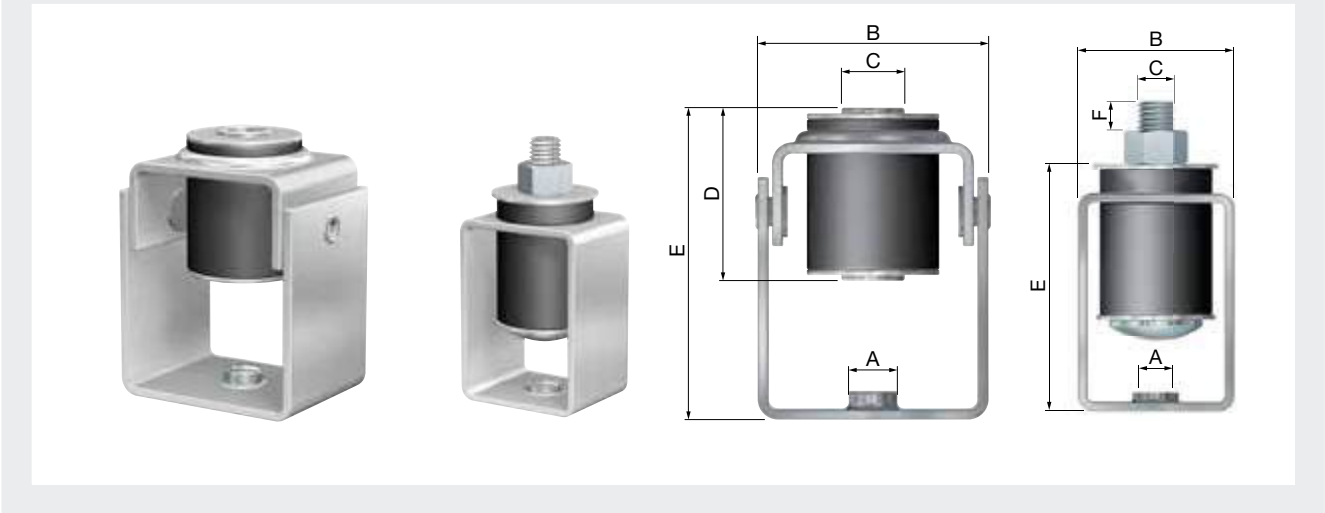
type	dimensions [mm]										
	A	B	C	D	E	F	G	H	K	L	slotted hole
BVP 135-1	40	30	4	-	135°	Ø 11	Ø 13	-	-	-	11 x 13
BVP 135-D	39	40	4	30	90°	Ø 11	Ø 11	-	140	100	11 x 11
GP 10 - 120 x 40	85	40	-	14	4 mm	-	-	120	-	-	11 x 18

noise-suppression fixtures

For a noise reducing suspension.

DA Noise-suppression Fixtures

- Housing: electrolytically zinc plated.
- Noise suppression: 20 dB(A), see TNO-TH 807/410/1 report.
- Suitable for temperatures of -50°C up to +110°C.
- Hardness of rubber: 65 - 70° Shore A.



type	article number	dimensions [mm]						max. working load [N]*	
		A	B	C	D	E	F		
DA 8	10-80801	M8	Ø 40 x 30	Ø 8.5	32	55	-	500	50
DA 12	10-80802	M12	Ø 50 x 40	M12	-	99	21	2000	50

* At 20 dB(A) noise reduction.

pipe identification labelling systems

Label card holders for pipe identification.
The identification of pipe contents in piping installations is of great importance. In case of emergency it is crucial to have quick access to the information about the contents and flow direction of pipes. In addition, pipe identification ensures quick maintenance of the installation.

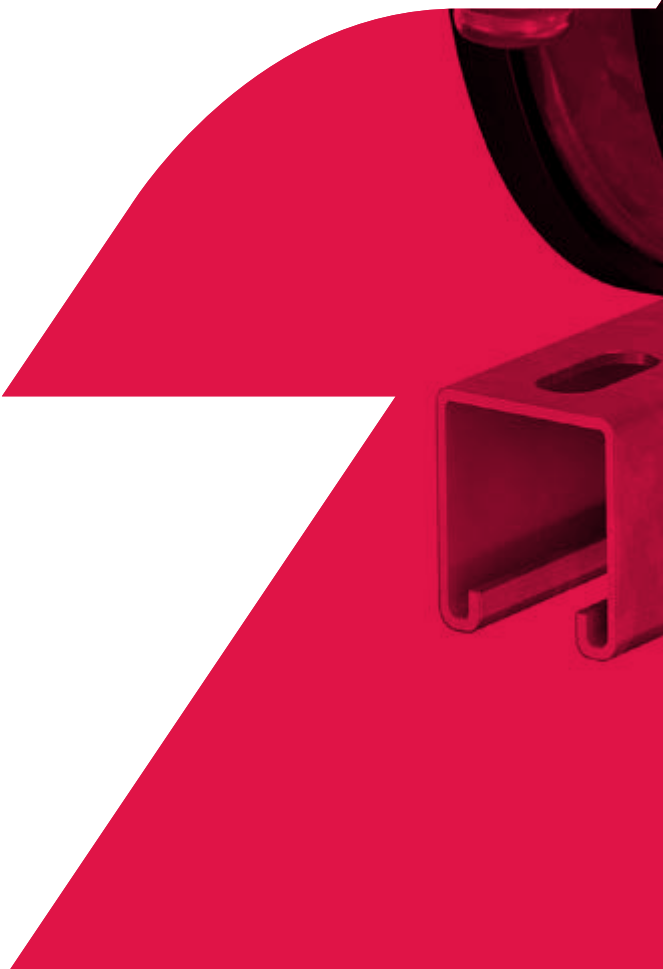
KH Card Holder

Label card holder with transparent cover plate for do-it-yourself labelling for pipe identification.
Suitable for horizontal and vertical pipes in the dimensions DN 8 to DN 50 including 100% insulation (in accordance with EnEV2014 and DIN 4108-4:2013), which corresponds to an external diameter of 10 to 220 mm.

- Including tie wrap for quick and easy assembly.
- Heat resistant PA; corrosion-free.
- For standard labels/stickers with size 70 x 50.8 mm and with a maximum thickness of 0.8 mm.
- Suitable for pipes with surface temperatures of up to +90°C.
- Suitable for ambient temperatures of +40°C.
- KH Label template can be downloaded at '**Extra documentation**' on the website.



type	article number	dimension card [mm]	suitable for: ext. pipe Ø [mm]	
KH 70 x 50.8	10-71101	70 x 50.8	10 - 220	10



VSH FastFix

galvanized mounting materials

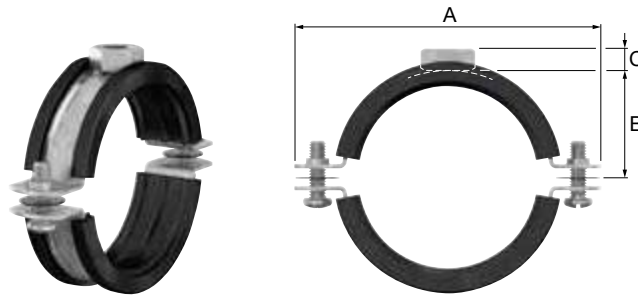


universal clips for all types of pipe

BSI-HDG clips

Hot-dip galvanized rubber lined universal clips for sustainable pipe fixing outdoors and in environments with demanding atmospheric conditions.

- The thickness of the coating and its cathodic protection provide extensive protection against corrosion, even when the clip gets scratched.
- Suitable for both horizontal and vertical fixing of pipes.
- Fitted with retaining rings to prevent loss of bolts.
- Reinforcement ribs for additional strength and maintenance of shape.
- Hot-dip galvanized according to EN-ISO 1461:2009.
- Noise suppressing rubber lining (EPDM): 17 dB(A) according to ISO 3822-1.
- Suitable for temperatures from -40°C up to +120°C.
- Bolts with slot and cross head.
- Safety margin for minimal breaking load (V) = 3.
- Equipped with Philips / slotted head screws.



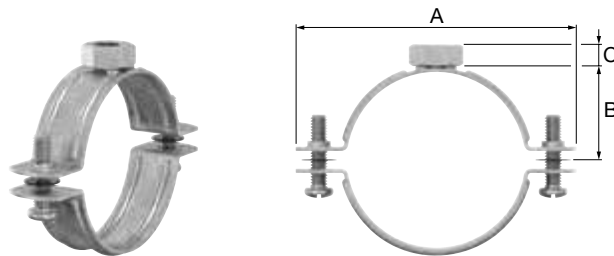
type	article number	Ø pipe		connec- tion	strip dimen- sions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
BSI-HDG M10 x 8 - 10	10-38830	8 - 10	⅜	M10	20 x 1.5	1000	53	13	14	50
BSI-HDG M10 x 12 - 14	10-38831	12 - 14	¼	M10	20 x 1.5	1000	58	15	14	50
BSI-HDG M10 x 15 - 19	10-38832	15 - 19	⅜	M10	20 x 1.5	1000	62	18	14	50
BSI-HDG M10 x 20 - 25	10-38833	20 - 25	½	M10	20 x 1.5	1000	69	21	14	50
BSI-HDG M10 x 26 - 30	10-38834	26 - 30	¾	M10	20 x 1.5	1000	74	23	14	50
BSI-HDG M10 x 32 - 36	10-38835	32 - 36	1	M10	20 x 1.5	1000	81	26	14	50
BSI-HDG M10 x 38 - 43	10-38836	38 - 43	1¼	M10	20 x 1.5	1000	87	30	14	50
BSI-HDG M10 x 44 - 49	10-38837	44 - 49	1½	M10	20 x 1.5	1000	94	33	14	50
BSI-HDG M10 x 50 - 55	10-38838	50 - 55	-	M10	20 x 1.5	1000	103	36	14	50
BSI-HDG M10 x 56 - 61	10-38839	56 - 61	2	M10	20 x 1.5	1000	106	39	10	50
BSI-HDG M10 x 62 - 67	10-38840	62 - 67	-	M10	20 x 2.0	1300	113	42	10	50
BSI-HDG M10 x 68 - 73	10-38841	68 - 73	-	M10	20 x 2.0	1300	123	45	10	50
BSI-HDG M10 x 75 - 80	10-38842	75 - 80	2½	M10	20 x 2.0	1300	128	48	10	50
BSI-HDG M10 x 82 - 86	10-38843	82 - 86	-	M10	20 x 2.0	1300	134	51	10	50
BSI-HDG M10 x 87 - 92	10-38844	87 - 92	3	M10	20 x 2.0	1300	141	54	10	50
BSI-HDG M10 x 95 - 102	10-38845	95 - 102	3½	M10	20 x 2.5	2150	158	58	10	50
BSI-HDG M10 x 108 - 116	10-38846	108 - 116	4	M10	20 x 2.5	2150	170	65	10	25
BSI-HDG M10 x 121 - 127	10-38847	121 - 127	-	M10	20 x 2.5	2150	185	70	10	25
BSI-HDG M10 x 131 - 141	10-38848	131 - 141	5	M10	20 x 2.5	2150	195	77	10	25
BSI-HDG M10 x 159 - 163	10-38849	159 - 163	-	M10	20 x 2.5	2150	215	88	10	25
BSI-HDG M10 x 165 - 169	10-38850	165 - 169	6	M10	20 x 2.5	2150	226	91	10	25
BSI-HDG M10 x 192 - 202	10-38851	192 - 202	-	M10	20 x 3.0	3000	265	107	10	25
BSI-HDG M10 x 210 - 220	10-38852	210 - 220	8	M10	20 x 3.0	3000	274	117	10	25

universal clips for steel pipes

BSU-HDG clips

Hot-dip galvanized universal clips for sustainable pipe fixing outdoors and in environments with demanding atmospheric conditions.

- The thickness of the coating and its cathodic protection provide extensive protection against corrosion, even when the clip gets scratched.
- Suitable for both horizontal and vertical fixing of pipes.
- Fitted with retaining rings to prevent loss of bolts.
- Reinforcement ribs for additional strength and maintenance of shape.
- Hot-dip galvanized according to EN-ISO 1461:2009.
- Suitable for temperatures from -40°C up to +250°C.
- Bolts with slot and cross head.
- Safety margin for minimal breaking load (V) = 3.
- Equipped with Philips / slotted head screws.



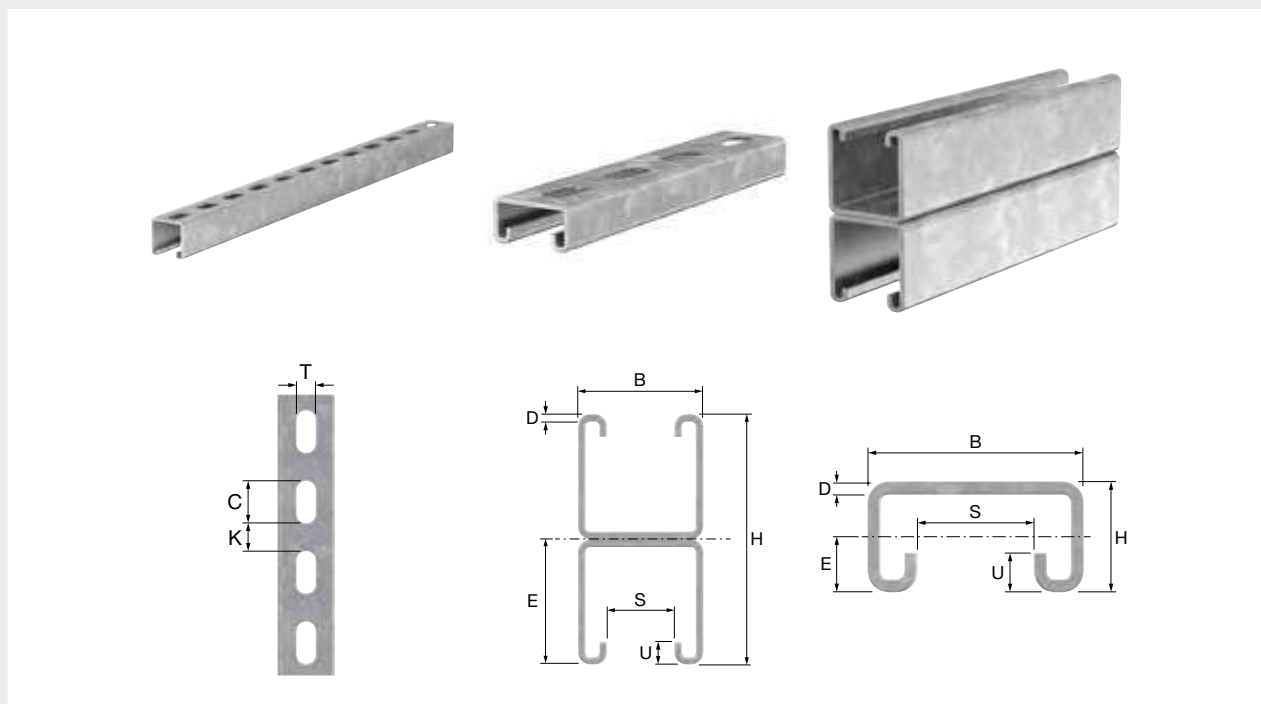
type	article number	Ø pipe		connec- tion	strip dimensi- ons [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
BSU-HDG M10 x 15 - 19	10-38860	15 - 19	3/8	M10	20 x 1.5	1000	53	9	14	50
BSU-HDG M10 x 20 - 25	10-38861	20 - 25	1/2	M10	20 x 1.5	1000	60	12	14	50
BSU-HDG M10 x 26 - 30	10-38862	26 - 30	3/4	M10	20 x 1.5	1000	65	14	14	50
BSU-HDG M10 x 32 - 36	10-38863	32 - 36	1	M10	20 x 1.5	1000	72	17	14	50
BSU-HDG M10 x 38 - 43	10-38864	38 - 43	1 1/4	M10	20 x 1.5	1000	78	21	14	50
BSU-HDG M10 x 44 - 49	10-38865	44 - 49	1 1/2	M10	20 x 1.5	1000	85	24	14	50
BSU-HDG M10 x 50 - 55	10-38866	50 - 55	1 3/4	M10	20 x 1.5	1000	94	27	14	50
BSU-HDG M10 x 56 - 61	10-38867	56 - 61	2	M10	20 x 1.5	1000	97	30	14	50
BSU-HDG M10 x 62 - 67	10-38868	62 - 67	-	M10	20 x 1.5	1000	104	33	10	50
BSU-HDG M10 x 68 - 73	10-38869	68 - 73	2 1/4	M10	20 x 1.5	1000	114	36	10	50
BSU-HDG M10 x 75 - 80	10-38870	75 - 80	2 1/2	M10	20 x 2.0	1300	119	39	10	50
BSU-HDG M10 x 82 - 86	10-38871	82 - 86	2 3/4	M10	20 x 2.0	1300	125	42	10	50
BSU-HDG M10 x 87 - 92	10-38872	87 - 92	3	M10	20 x 2.0	1300	132	45	10	50
BSU-HDG M10 x 95 - 102	10-38873	95 - 102	3 1/2	M10	20 x 2.0	1300	149	49	10	50
BSU-HDG M10 x 108 - 116	10-38874	108 - 116	4	M10	20 x 2.5	2150	161	56	10	25
BSU-HDG M10 x 121 - 127	10-38875	121 - 127	-	M10	20 x 2.5	2150	176	61	10	25
BSU-HDG M10 x 131 - 141	10-38876	131 - 141	5	M10	20 x 2.5	2150	186	68	10	25
BSU-HDG M10 x 159 - 163	10-38877	159 - 163	-	M10	20 x 2.5	2150	206	79	10	25
BSU-HDG M10 x 165 - 169	10-38878	165 - 169	6	M10	20 x 2.5	2150	217	53	10	10
BSU-HDG M10 x 192 - 202	10-38879	192 - 202	-	M10	20 x 2.5	2150	256	98	10	10
BSU-HDG M10 x 210 - 220	10-38880	210 - 220	8	M10	20 x 2.5	2150	265	108	10	10

STRUT rail

STRUT Rail

For quickly and professionally installing outdoor wall mounts and roof constructions. The VSH FastFix rail is available in hot-dip galvanized STRUT execution and combines perfectly with the mpad Rooftop support set.

- Hot-dip galvanized according to BS EN 1461:2009.
- Dimensions and tolerances in accordance with BS 6946:1988.
- With slotted holes 14 x 28 for adjustable mounting.
- Space between the holes: 50 mm.



type	article number	stock length [m]	max. working (point) load [N]	Mb [Ncm]	Ix [cm ⁴]	Wx [cm ³]	
R-STR 41 x 21 x 2.5	10-50948	3	1180	15470	0.99	0.91	10
R-STR 41 x 21 x 2.5	10-50965	6	1180	15470	0.99	0.91	10
R-STR 41 x 41 x 2.5	10-50931	3	3770	49980	6.20	2.94	10
R-STR 41 x 41 x 2.5	10-50874	6	3770	49980	6.20	2.94	10
R-STR-D 41 x 82 x 2.5	10-50864	6	10720	153170	37.20	9.01	10

Dimensions R-STR Rail

type	dimensions [mm]								
	B	C	D	E	H	K	S	T	U
R-STR 41 x 21 x 2.5	41	28	2.5	10	21	22	22	14	7.5
R-STR 41 x 41 x 2.5	41	28	2.5	20	41	22	22	14	7.5
R-STR-D 41 x 82 x 2.5	41	28	2.5	41	82	22	22	14	7.5

STRUT rail consoles

STRUT Rail Consoles

- Hot-dip galvanized according to BS EN 1461:2009.



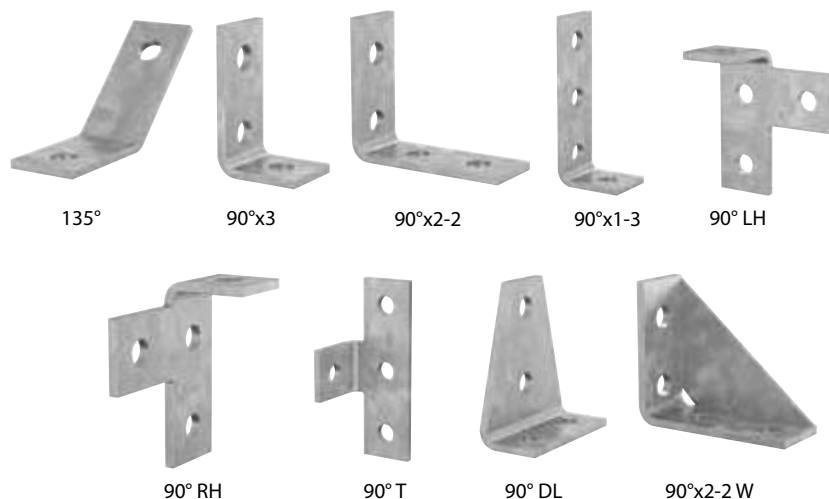
type	article number	dimensions [mm]				max. load at end point [N]	
		W.	H.	Th.	L.		
STRUT R41 x 300	10-83030	41	41	2.5	300	1800	10
STRUT R41 x 600	10-83060	41	41	2.5	600	900	10

STRUT strut rail connectors

STRUT HV Mounting Angles

To connect STRUT rails in every angle.

- Hot-dip galvanized according to BS EN 1461:2009.

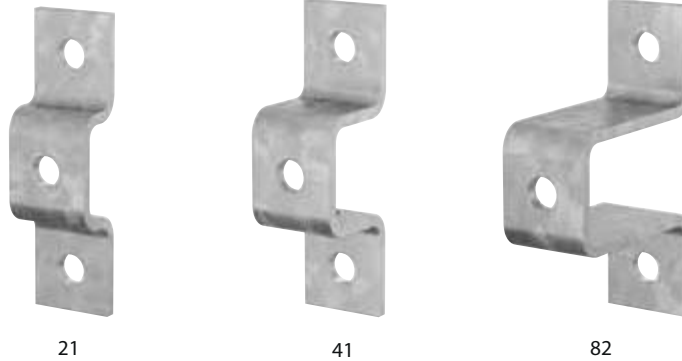


type	article number	number of holes (Ø 14 mm)		shape	
STRUT HV 135° x 1-1	10-83615	2	1 - 1	135°	50
STRUT HV 90° T x 3-1	10-83609	4	3 - 1	T-shape / 90°	25
STRUT HV 90° DL x 3-1	10-83610	4	2 - 2	Delta / 90° / large	25
STRUT HV 90° x 1-2	10-83603	3	1 - 2	90°	50
STRUT HV 90° x 2-2	10-83605	4	2 - 2	90°	50
STRUT HV 90° x 1-3	10-83606	4	1 - 3	90°	50
STRUT HV 90° LH x 2-1-1	10-83607	4	2 - 1 - 1	T-shape / 90° / Left handed	25
STRUT HV 90° RH x 2-1-1	10-83608	4	2 - 1 - 1	T-shape / 90° / Right handed	25
STRUT HV 90° W x 2-2	10-83612	4	2 - 2	Welded reinforcement / 90°	25

STRUT UK Mounting Crosses

To connect two crossing STRUT rails.

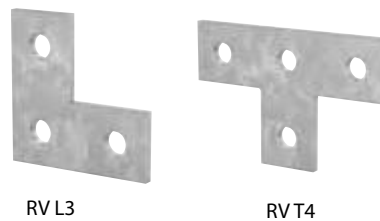
- Hot-dip galvanized according to BS EN 1461:2009.



type	article number	rail type	number of holes (Ø 14 mm)	
STRUT UK 21	10-83800	21	3	25
STRUT UK 41	10-83801	41	5	25
STRUT UK 82	10-83802	82	3	10

STRUT RV Flat Rail Connectors

- Hot-dip galvanized according to BS EN 1461:2009.



type	article number	number of holes (Ø 14 mm)	shape	
STRUT RV L3	10-83506	3	L	50
STRUT RV T4	10-83507	4	T	50

STRUT RL Rail Extensions

- Hot-dip galvanized according to BS EN 1461:2009.



type	article number	rail type	finish	
STRUT RL 21 - 41 EXT	10-83807	21 - 41	external	20

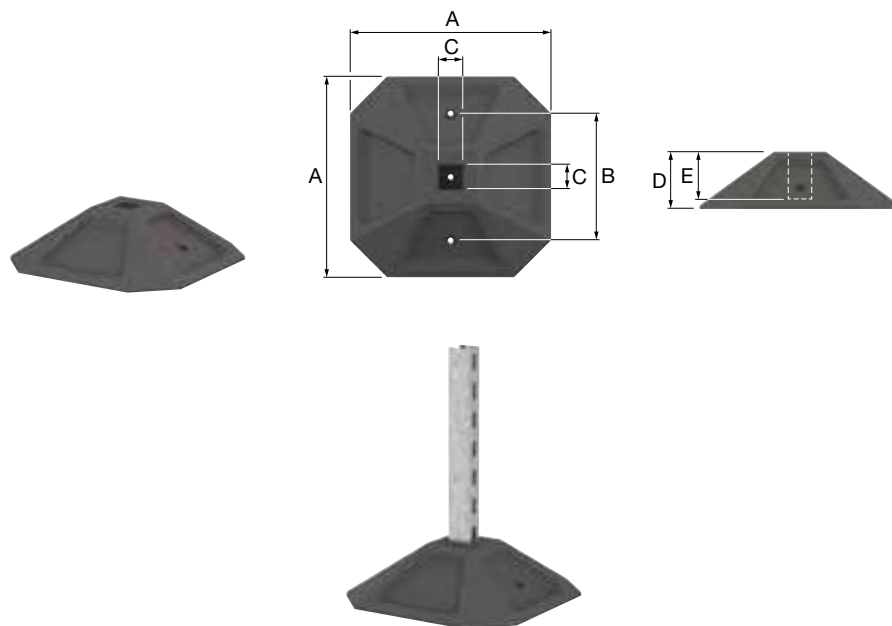
STRUT rooftop support set

STRUT Rooftop Support Set

Rooftop Support set for mounting on flat roofs.

- Suitable for STRUT Rail R-STR 41 x 41.
- Suitable for temperatures from -20°C up to +100°C.
- Foam mat: Antiskid and vibration reducing polyolefins foam.
- Rooftop support: Polycarbonate with added carbon black. UV resistant.
Reacts well to extreme heat and temperature changes (unlike other plastics and fibreglass).
Excellent strength to weight ratio.
- Steel part: Mild steel with hot-dip galvanized finish. Minimal thickness 45 µm.
- Each VSH FastFix mpad1 set consists of the following parts:
foam mat (1)
plastic mounting plate (1)
hot-dip galvanized steel part (1)
stainless steel washer M10 (6)
stainless steel bolt M10 x 20 (2)
stainless steel bolt M10 x 60 (2)
stainless steel nut M10 (2)

Packaging contains 2x VSH FastFix mpad1 sets.



type	article number	max. vertical load [N] (per pair)	dimensions [mm]				weight [kg]	
			A	B	C	D		
STRUT Rooftop Support Set	10-71845	1000	350	250	41	100	10.400	2

STRUT VL floor consoles

STRUT VL Floor Consoles

Fixing STRUT rail to floors, walls and ceiling.

- Hot-dip galvanized according to BS EN 1461:2009.



type	article number	rail type	number of holes (Ø 14 mm)	finish	
STRUT VL E2	10-83305	21 / 41	3	Single layer	25
STRUT VL DE	10-83307	41	6	Single delta	10
STRUT VL DD	10-83308	82	6	Double delta	10

STRUT SP clamping plates

STRUT SP Clamping Plates

- Hot-dip galvanized according to BS EN 1461:2009.



type	article number	hole Ø	bolt	
STRUT SP M8	10-83002	10	M8	200
STRUT SP M10	10-83003	12	M10	200

STRUT tap bolts

STRUT Tap bolts



- In accordance with DIN 933.
- ISO fitted.
- Steel grade: 8.8.
- Hot-dip galvanized according to BS EN 1461:2009.

type	article number	connection	length	
STRUT Tap bolt M8 x 20	10-83940	M8	20	100
STRUT Tap bolt M8 x 35	10-83942	M8	35	100
STRUT Tap bolt M8 x 55	10-83944	M8	55	100
STRUT Tap bolt M10 x 20	10-83941	M10	20	100
STRUT Tap bolt M10 x 35	10-83943	M10	35	100
STRUT Tap bolt M10 x 55	10-83945	M10	55	100

STRUT nuts

STRUT Nuts



For easy mounting of a suspension in a STRUT Rail.

- In accordance with DIN 934-8.
- ISO fitted.
- Hot-dip galvanized according to BS EN 1461:2009.

type	article number	connection	
STRUT Nut M8	10-83935	M8	200
STRUT Nut M10	10-83936	M10	200

STRUT washers

STRUT Washers



For easy mounting of a suspension in a STRUT Rail.

- Hot-dip galvanized according to BS EN 1461:2009.

type	article number	connection	dimensions [mm]			
			A	B	C	
STRUT Washer M8	10-83930	M8	8,4	30	1,5	200
STRUT Washer M10	10-83931	M10	10,5	35	1,5	200

STRUT threaded rods

STRUT Threaded rods



For all fixings and constructions requiring threaded rod.

- Produced according to current standards with 60° top angle for maximum load.
- In accordance with DIN 976.
- ISO fitted.
- Steel grade: 4.8.
- Hot-dip galvanized according to BS EN 1461:2009.

type	article number	con- nection	length	
STRUT Threaded rod M8 x 1000	10-83950	M8	1000	25
STRUT Threaded rod M10 x 1000	10-83951	M10	1000	25

STRUT hammer head bolt set and strut sliding nuts

STRUT HBS Hammer head bolt set



For easy mounting of a suspension in a STRUT Rail.

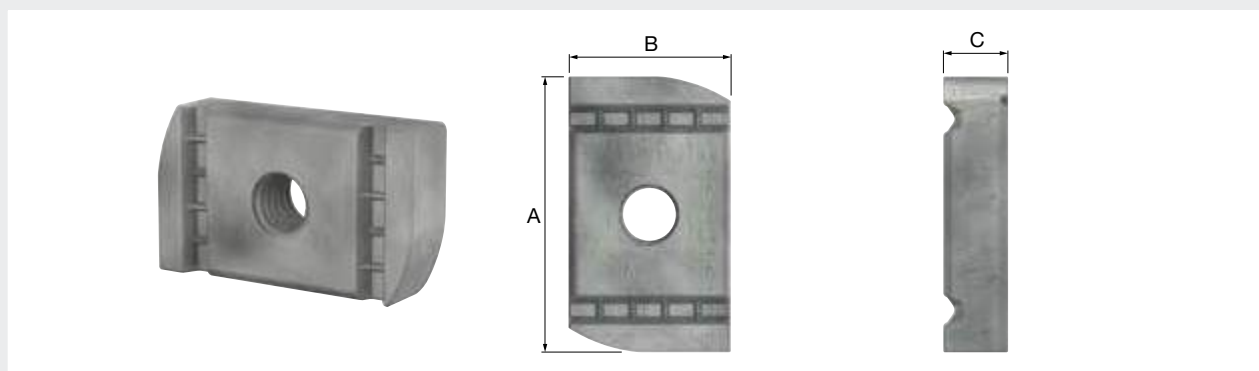
- Hot-dip galvanized according to BS EN 1461:2009.

type	article number	connection	
STRUT HBS M8 x 40	10-83925	M8 x 40	50

STRUT Sliding Nuts

Extra strong version (STRUT) for the easy mounting of a suspension in STRUT rail.

- Hot-dip galvanized according to BS EN 1461:2009.

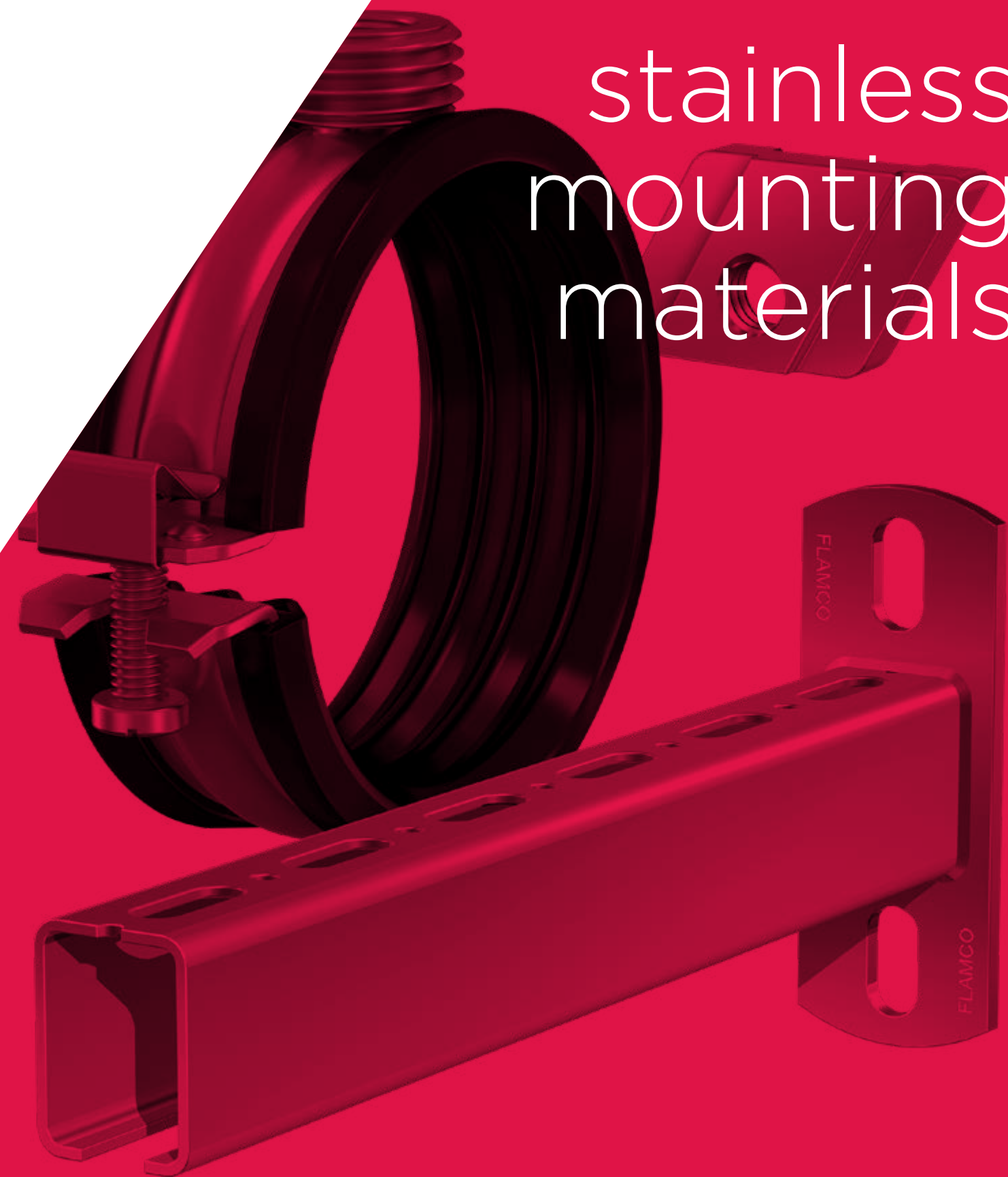


type	article number	connection	dimensions [mm]			
			A	B	C	
STRUT Sliding Nut M8	10-83921	M8	34.5	20	8	100
STRUT Sliding Nut M10	10-83922	M10	34.5	20	9	100



VSH FastFix

stainless
mounting
materials



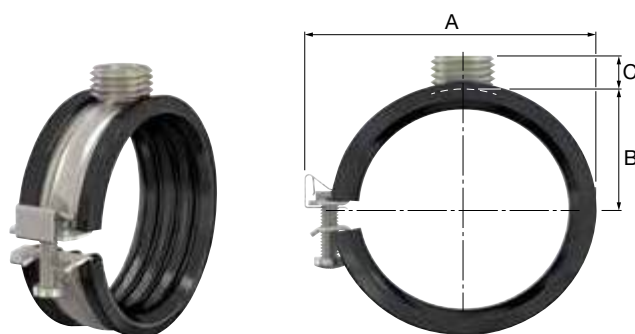
stainless steel clips

For use in situations where stainless steel mounting material is necessary, such as food processing, facilities, laboratories, the chemical industry, etc.

BSA clips - Stainless Steel

Stainless steel universal clips with rubber strips for mounting pipes to the wall or ceiling.

- Stainless steel AISI 316L (1.4404 according to EN 10088).
- Noise-suppressing rubber strip: 19 dB(A) according to ISO 3822-1.
To achieve maximum sound suppression do not overload the fitting.
- Safety margin for minimal breaking load (V) = 3.
- Connection: G½" M (BSP) / M10.
- The EPDM rubber inlay is halogen-free.



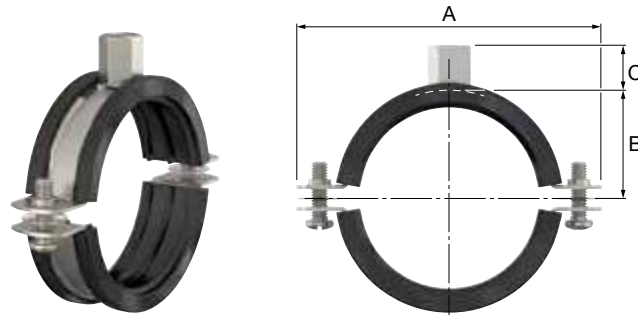
type	article number	Ø pipe		connection	strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		nom. ["]	ext. [mm]				A	B	C	
BSA 14 - 16 SST	10-51951	-	14 - 16	G½" M/M10	25 x 1.75	1000	47	15	10	50
BSA 17 - 19 SST	10-51952	¾	17 - 19	G½" M/M10	25 x 1.75	1000	50	17	10	50
BSA 20 - 24 SST	10-51953	½	20 - 24	G½" M/M10	25 x 1.75	1000	54	19	10	50
BSA 25 - 28 SST	10-51954	¾	25 - 28	G½" M/M10	25 x 1.75	1000	59	21	10	50
BSA 33 - 37 SST	10-51956	1	33 - 37	G½" M/M10	25 x 1.75	1000	70	27	10	50
BSA 38 - 42 SST	10-51957	1¼	38 - 42	G½" M/M10	25 x 1.75	1000	78	31	10	50
BSA 44.5 - 49 SST	10-51958	1½	44.5 - 49	G½" M/M10	25 x 1.75	1000	83	34	10	50
BSA 50 - 54 SST	10-51959	-	50 - 54	G½" M/M10	25 x 1.75	1000	90	37	10	50
BSA 56 - 60 SST	10-51960	2	56 - 60	G½" M/M10	25 x 1.75	1000	96	40	10	50
BSA 62 - 64 SST*	10-51970	-	62 - 64	G½" M/M10	25 x 2.75	1750	119	43	10	25
BSA 75 - 80 SST*	10-51972	2½	75 - 80	G½" M/M10	25 x 2.75	1750	133	50	10	25
BSA 89 - 91 SST*	10-51974	3	89 - 91	G½" M/M10	25 x 2.75	1750	145	56	10	25
BSA 108 - 116 SST*	10-51977	4	108 - 116	G½" M/M10	25 x 2.75	1750	168	67	10	25
BSA 121 - 127 SST*	10-51979	-	121 - 127	G½" M/M10	25 x 2.75	1750	184	71	10	25
BSA 159 - 162 SST*	10-51982	-	159 - 162	G½" M/M10	25 x 2.75	1750	220	93	10	25

* Closing system provided with 2 closing screws.

BRS-A clips - Stainless Steel

Stainless steel universal clips with rubber strips for mounting pipes to the wall or ceiling.

- Stainless steel AISI 316L (1.4404 according to EN 10088).
- Suitable for short-distance mounting.
- Noise-suppressing rubber strip: 17 dB(A) according to ISO 3822-1.
To achieve maximum sound suppression do not overload the fitting.
- Safety margin for minimal breaking load (V) = 3.
- Connection: M8/10.
- Equipped with Philips / slotted head screws.
- With halogen-free inlay.

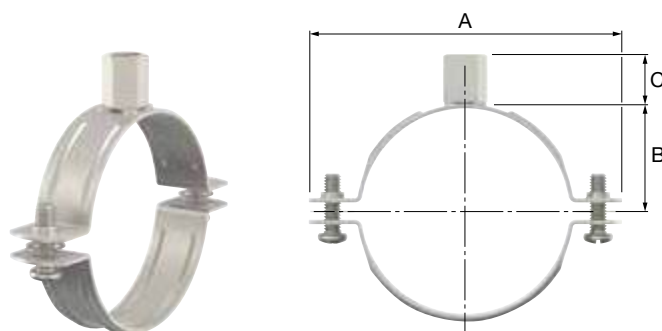


type	article number	Ø pipe		connec- tion	strip dimensi- ons [mm]	max. working load [N]	dimensions [mm]			
		nom. ["]	ext. [mm]				A	B	C	
BRS-A 8 - 10 SST	10-38450	1/8	8 - 10	M8/10	20 x 1.5	1000	53	13	16	50
BRS-A 12 - 14 SST	10-38451	1/4	12 - 14	M8/10	20 x 1.5	1000	58	15	16	50
BRS-A 15 - 19 SST	10-38452	3/8	15 - 19	M8/10	20 x 1.5	1000	62	18	16	50
BRS-A 20 - 25 SST	10-38453	1/2	20 - 25	M8/10	20 x 1.5	1000	69	21	16	50
BRS-A 26 - 30 SST	10-38454	3/4	26 - 30	M8/10	20 x 1.5	1000	74	23	16	50
BRS-A 32 - 36 SST	10-38455	1	32 - 36	M8/10	20 x 1.5	1000	81	26	16	50
BRS-A 38 - 43 SST	10-38456	1 1/4	38 - 43	M8/10	20 x 1.5	1000	87	30	16	50
BRS-A 44 - 49 SST	10-38457	1 1/2	44 - 49	M8/10	20 x 1.5	1000	94	33	16	50
BRS-A 50 - 55 SST	10-38458	1 3/4	50 - 55	M8/10	20 x 1.5	1000	103	36	16	50
BRS-A 56 - 61 SST	10-38459	2	56 - 61	M8/10	20 x 1.5	1000	106	39	16	50
BRS-A 62 - 67 SST	10-38460	-	62 - 67	M8/10	20 x 2.0	1300	113	42	16	50
BRS-A 68 - 73 SST	10-38461	2 1/4	67 - 73	M8/10	20 x 2.0	1300	123	45	16	50
BRS-A 75 - 80 SST	10-38462	2 1/2	75 - 80	M8/10	20 x 2.0	1300	128	48	16	50
BRS-A 82 - 86 SST	10-38463	2 3/4	82 - 86	M8/10	20 x 2.0	1300	134	51	16	50
BRS-A 87 - 92 SST	10-38464	3	87 - 92	M8/10	20 x 2.0	1300	141	54	16	50
BRS-A 95 - 102 SST	10-38465	3 1/2	95 - 102	M8/10	20 x 2.5	2150	158	58	16	50
BRS-A 108 - 116 SST	10-38466	4	108 - 116	M8/10	20 x 2.5	2150	170	65	16	25
BRS-A 121 - 127 SST	10-38467	-	121 - 127	M8/10	20 x 2.5	2150	185	70	16	25
BRS-A 131 - 141 SST	10-38468	5	131 - 141	M8/10	20 x 2.5	2150	195	77	16	25
BRS-A 159 - 163 SST	10-38469	-	159 - 163	M8/10	20 x 2.5	2150	215	88	16	25
BRS-A 165 - 169 SST	10-38470	6	165 - 169	M8/10	20 x 2.5	2150	226	91	16	25
BRS-A 192 - 202 SST	10-38471	-	192 - 202	M8/10	20 x 3.0	2150	265	107	16	25
BRS-A 210 - 220 SST	10-38473	8	210 - 220	M8/10	20 x 3.0	2150	274	117	16	25

BRS clips - Stainless Steel

Stainless steel universal clips for mounting stainless steel pipes to the wall or ceiling.

- Stainless steel AISI 316L (1.4404 according to EN 10088).
- Suitable for short-distance mounting.
- Safety margin for minimal breaking load (V) = 3.
- Connection: M8/10.
- Equipped with Philips / slotted head screws.



type	article number	Ø pipe		connection	strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		nom. ["]	ext. [mm]				A	B	C	
BRS 8 - 10 SST	10-38475	1/8	8 - 10	M8/10	20 x 1.5	1000	43	7	16	50
BRS 12 - 14 SST	10-38476	1/4	12 - 14	M8/10	20 x 1.5	1000	49	9	16	50
BRS 15 - 19 SST	10-38477	3/8	15 - 19	M8/10	20 x 1.5	1000	50	11	16	50
BRS 20 - 25 SST	10-38478	1/2	20 - 25	M8/10	20 x 1.5	1000	60	16	16	50
BRS 26 - 30 SST	10-38479	3/4	26 - 30	M8/10	20 x 1.5	1000	64	19	16	50
BRS 32 - 36 SST	10-38480	1	32 - 36	M8/10	20 x 1.5	1000	71	22	16	50
BRS 38 - 43 SST	10-38481	1 1/4	38 - 43	M8/10	20 x 1.5	1000	79	25	16	50
BRS 44 - 49 SST	10-38482	1 1/2	44 - 49	M8/10	20 x 1.5	1000	84	28	16	50
BRS 50 - 55 SST	10-38483	-	50 - 55	M8/10	20 x 1.5	1000	91	29	16	50
BRS 56 - 61 SST	10-38484	2"	56 - 61	M8/10	20 x 1.5	1000	93	34	16	50
BRS 62 - 67 SST	10-38485	-	62 - 67	M8/10	20 x 2.0	1000	109	36	16	50
BRS 68 - 73 SST	10-38486	-	68 - 73	M8/10	20 x 2.0	1300	115	39	16	50
BRS 75 - 80 SST	10-38487	2 1/2	75 - 80	M8/10	20 x 2.0	1300	118	44	16	50
BRS 82 - 86 SST	10-38488	-	82 - 86	M8/10	20 x 2.0	1300	124	45	16	50
BRS 87 - 92 SST	10-38489	3	87 - 92	M8/10	20 x 2.0	1300	129	50	16	50
BRS 95 - 102 SST	10-38490	3 1/2	95 - 102	M8/10	20 x 2.5	2150	146	54	16	50
BRS 108 - 116 SST	10-38491	4	108 - 116	M8/10	20 x 2.5	2150	160	62	16	25
BRS 121 - 127 SST	10-38492	-	121 - 127	M8/10	20 x 2.5	2150	176	66	16	25
BRS 131 - 141 SST	10-38493	5	131 - 141	M8/10	20 x 2.5	2150	188	75	16	25
BRS 159 - 163 SST	10-38494	-	159 - 163	M8/10	20 x 2.5	2150	211	84	16	25
BRS 165 - 169 SST	10-38495	6	165 - 169	M8/10	20 x 2.5	2150	220	89	16	25
BRS 192 - 202 SST	10-38496	-	192 - 202	M8/10	20 x 3.0	2150	252	104	16	25
BRS 210 - 220 SST	10-38497	8	210 - 220	M8/10	20 x 3.0	2150	270	113	16	25

stainless steel rail

R . Rail - Stainless Steel

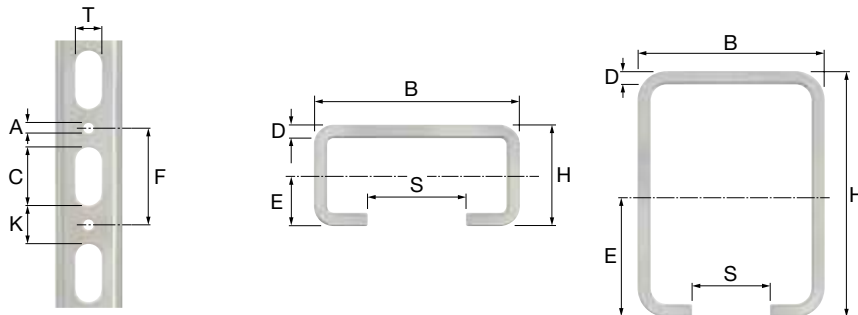


For fast and easy mounting of one or more suspensions or wall fixings.

- Stainless steel AISI 304.
- With slotted holes for adjustable mounting.

type	article number	length [m]	max. working load [N]	
R1 SST	10-50030	2	2000	10
R4 SST	10-50034	2	2500	10

Dimensions R . Rail - Stainless Steel



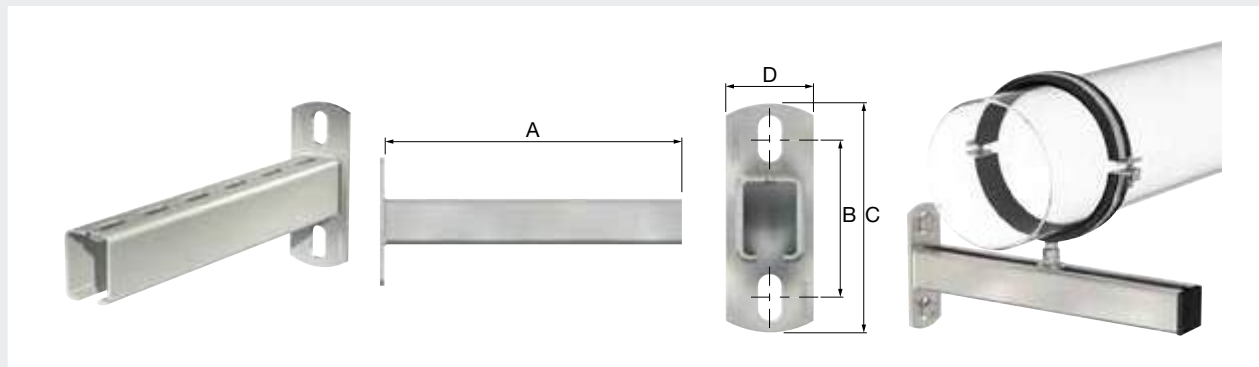
type	dimensions [mm]									
	H	B	A	C	D	E	F	K	S	T
R1	15	30.5	9	30	2.0	8.0	50	20	14.5	10.5
R4	46	35.0	9	30	2.5	23.2	50	20	14.5	13.5

stainless steel rail consoles

R . x ... Rail Consoles - Stainless Steel

For suspension or support directly on the wall.

- Stainless steel AISI 304.



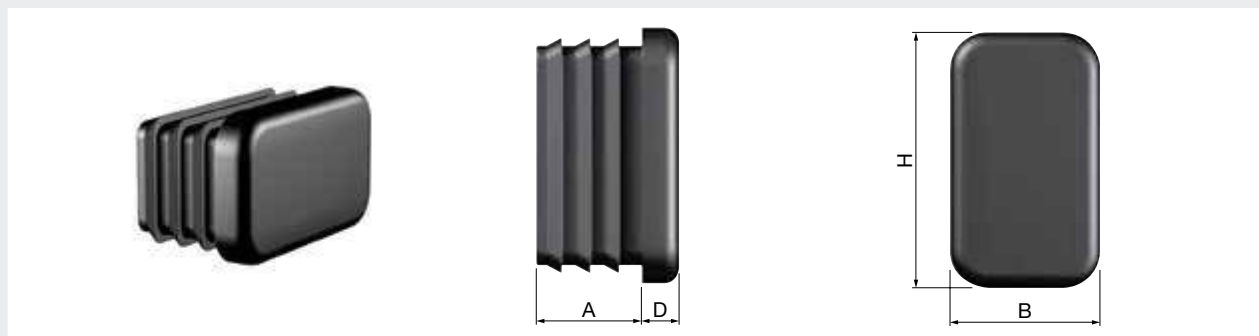
type	article number	dimensions [mm]				
		A	B	C	D	
R1 x 200 SST	10-71672	200	80	115	40	10
R1 x 300 SST	10-71673	300	80	115	40	10
R1 x 400 SST	10-71674	400	80	115	40	10
R4 x 300 SST	10-71683	300	90	130	50	10
R4 x 500 SST	10-71686	500	90	130	50	10

rail end caps

RD Rail End Cap

For a neat finish to VSH FastFix rail R1-8 and rail consoles. (For a neat finish to VSH FastFix rail R3, we advise two RD 2 rail end caps.)

- Black plastic.
- Easy to fit and self-securing.



type	article number	suitable for rail	dimensions [mm]				
			A	B	D	H	
RD 1	10-50501	R1	12	15	5	30	100
RD 2	10-50502	R2 / R3	12	20	5	35	100
RD 4	10-50504	R4	14	35	5	46	100
RD 6	10-50506	R6	14	41	5	60	100
RD 7	10-50507	R7	14	40	5	40	100
RD 8	10-50508	R8	14	20	5	40	100

stainless steel backplates

For mounting of a clip on a wall or ceiling, in conjunction with threaded rod or threaded pipe.

GP backplates - Stainless Steel

- Available in stainless steel AISI 304.



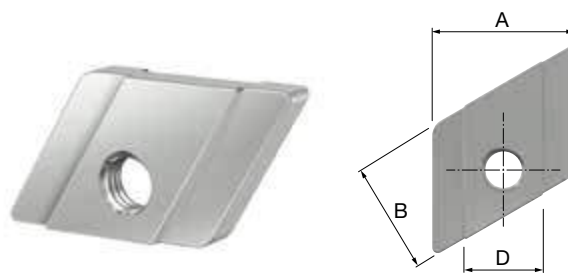
type	article number	connection	dimensions [mm]					slotted hole	
			A	B	H	D	E		
GP 8 - 80 x 30 SST AISI 304	10-39445	M8	54	30	80	11	3	9 x 16	100
GP 10 - 80 x 30 SST AISI 304	10-39446	M10	54	30	80	13	3	9 x 16	100
GP ½ - 80 x 30 SST AISI 316	10-39447	½" F	54	30	80	18	3	9 x 16	50
GP 10 - ½ - 80 x 30 SST AISI 316	10-39448	G½" M/M10	54	30	80	11	3	9 x 16	50

stainless steel rail support nuts

M...s Rail Support Nuts - Stainless Steel

For easy mounting of a suspension in VSH FastFix rail.

- Stainless steel AISI 304.

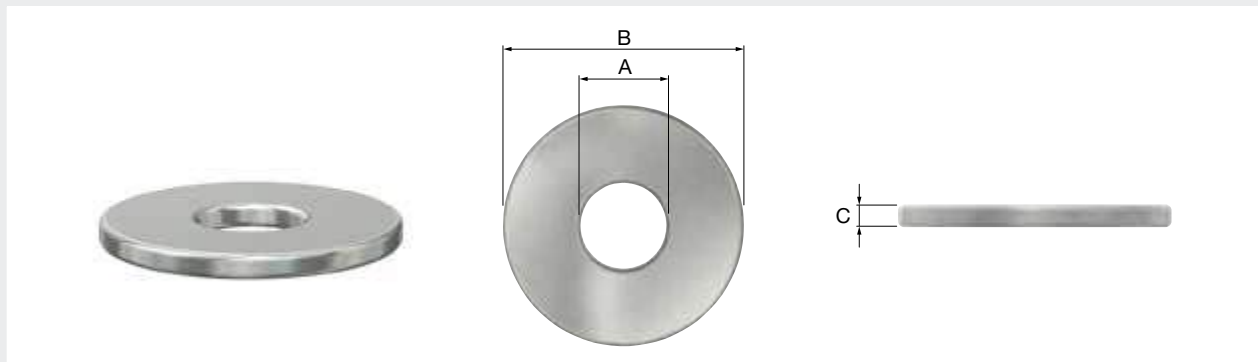


type	article number	connection	dimensions [mm]			
			A	B	D	
M8s SST	10-80322	M8	25	20	13.5	100
M10s SST	10-80323	M10	25	20	13.5	100

stainless steel washers

S Washers - Stainless Steel

- Stainless steel AISI 304.



type	article number	connection (A)	dimensions [mm]		
			B	C	
S 8 SST	10-70822	M8	23	1.5	100
S 10 SST	10-70823	M10	29	2.0	100

stainless steel nuts

M Nuts - Stainless Steel



- Stainless steel AISI 304.

type	article number	connection	
M8 SST	10-70222	M8	100
M10 SST	10-70223	M10	100

stainless steel threaded tube

Threaded tube - Stainless steel



- Stainless steel AISI 316.

type	article number	length	connection	
Threaded pipe ½ V4A	10-51760	1000	G½" M	1

stainless steel threaded products

D Threaded Rods - Stainless Steel



For all suspensions and assemblies with threaded rod.

- Produced according to current standards with 60° top angle for maximum load.
- Stainless steel AISI 304.

type	article number	L. [mm]	connection	max. working load [N]	
D 8 SST	10-70052	1000	M8	4500	50
D 10 SST	10-70053	1000	M10	7000	10

HO Wood Screw Studs - Stainless Steel

- Stainless steel AISI 304.
- Supplied with hexagonal midsection.



type	article number	dimensions [mm]			connection	
		A	B	C		
HO 8 x 80 SST	10-70621	30	37	80	M8	100
HO 8 x 100 SST	10-70624	40	47	100	M8	100
HO 10 x 80 SST	10-70622	20	47	80	M10	100
HO 10 x 100 SST	10-70625	30	57	100	M10	100

stainless steel mounting strips

Stainless steel LB Mounting Strip

- Stainless steel 316.



type	article number	roll [m]	dimensions [mm]		max. working load [N]	
			width	perforations		
LB 26 SST	10-71011	10	26	Ø 8.5	3000	1

stainless steel connectors

Sleeve - Stainless Steel



- Stainless steel AISI 304.

type	article number	connection	
Sleeve ½ SST	10-52815	½" F	100

disclaimer:

The technical data are non-binding and do not reflect the warranted characteristics of the products. They are subject to change. Please consult our General Terms and Conditions. Additional information is available upon request. It is the designer's responsibility to select products suitable for the intended purpose and to ensure that pressure ratings and performance data are not exceeded. The installation instructions should always be read and followed. The system must always be depressurized and drained before any components, whether defective or otherwise, are removed, modified or corrected.

more information?

For a complete and up-to-date product range and our additional services, visit: www.aalberts-ips.co.uk



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