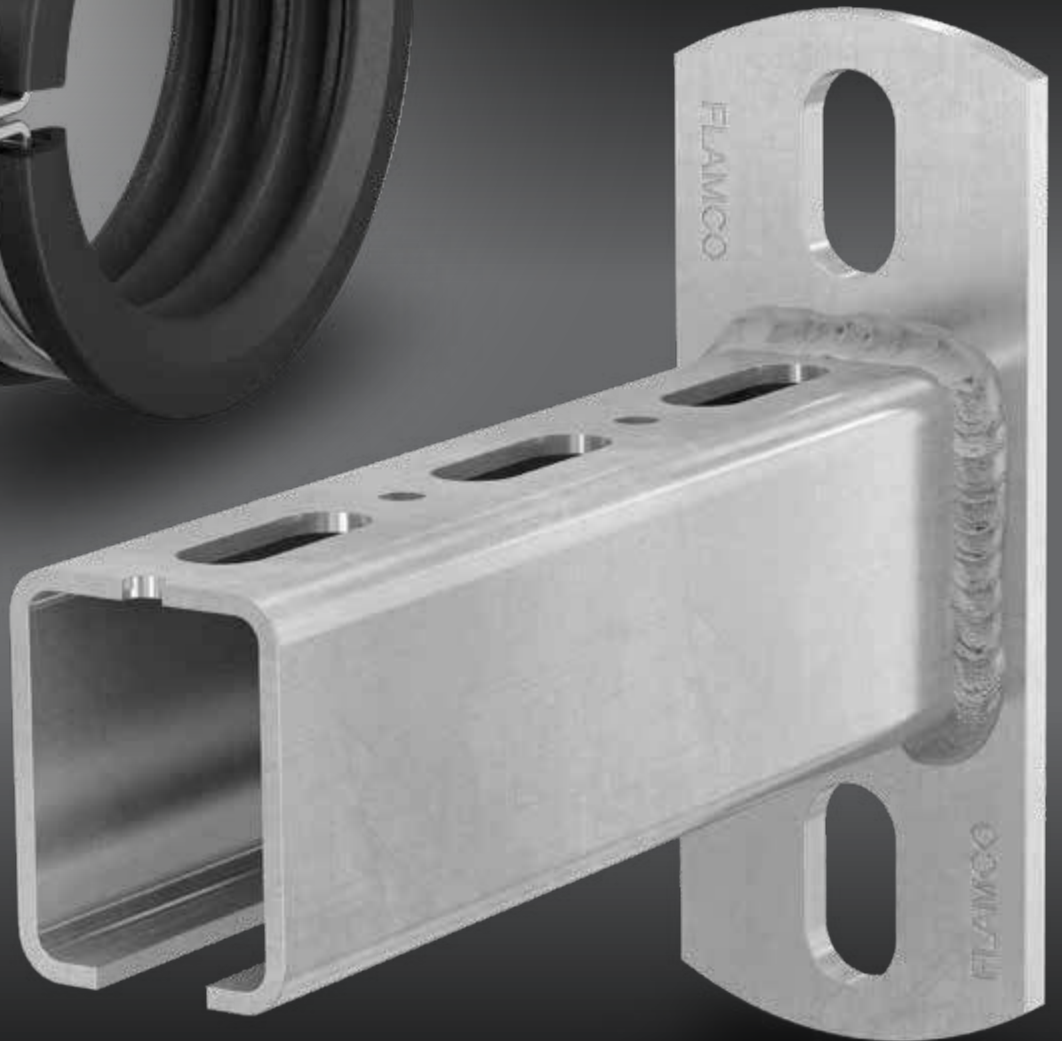
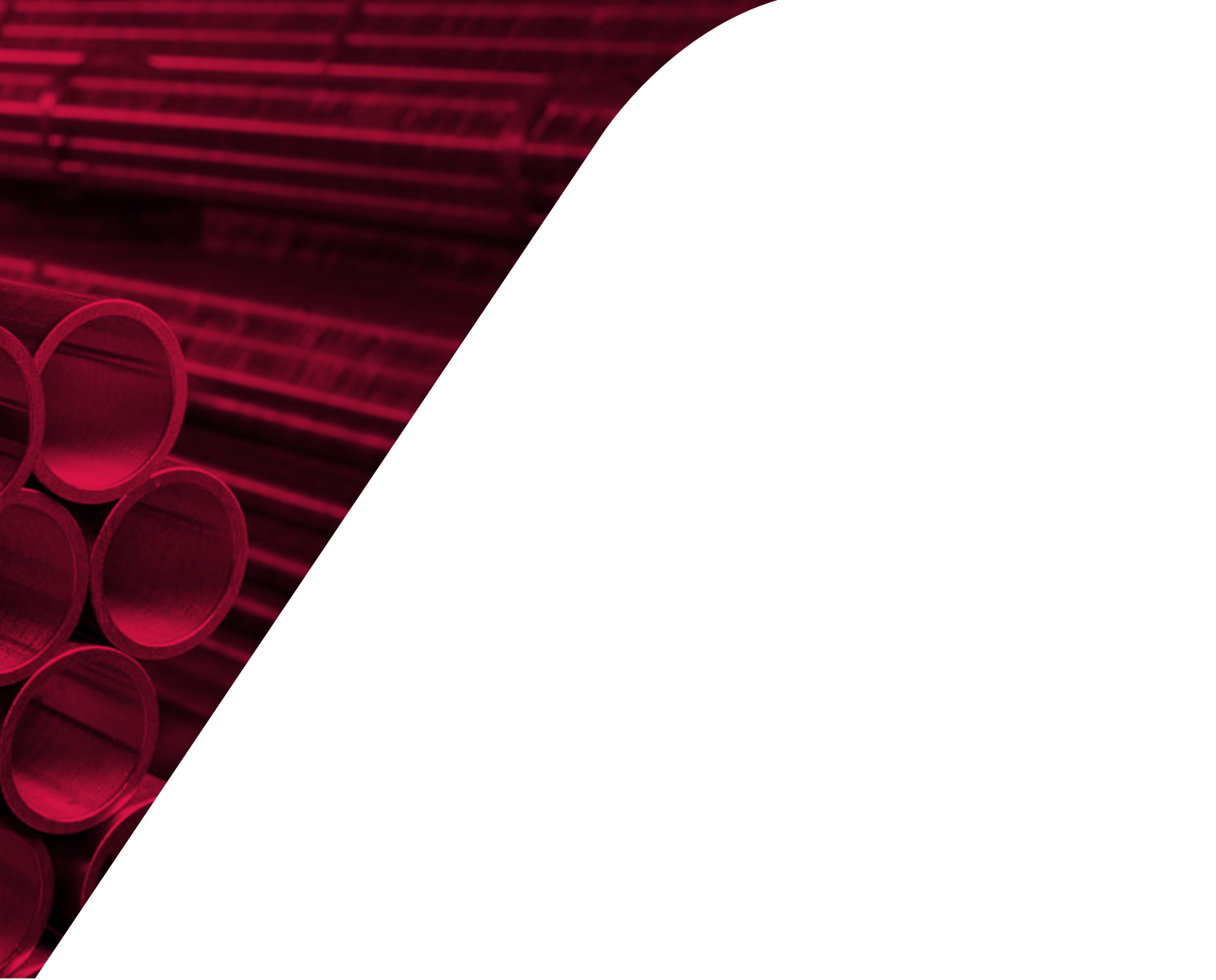


**FastFix**







# contents

Aalberts integrated piping systems	4
<hr/>	
product range	9
<hr/>	
FastFix universal clips	9
FastFix insulating clips	39
FastFix wall mounting clips	51
FastFix sprinkler hangers & clips	57
FastFix mounting rails & accessories	65
FastFix mounting accessories	95
FastFix galvanized mounting materials	135
FastFix stainless mounting materials	149

Aalberts integrated piping systems

don't just buy  
products,  
buy solutions.



piping technology

# 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.

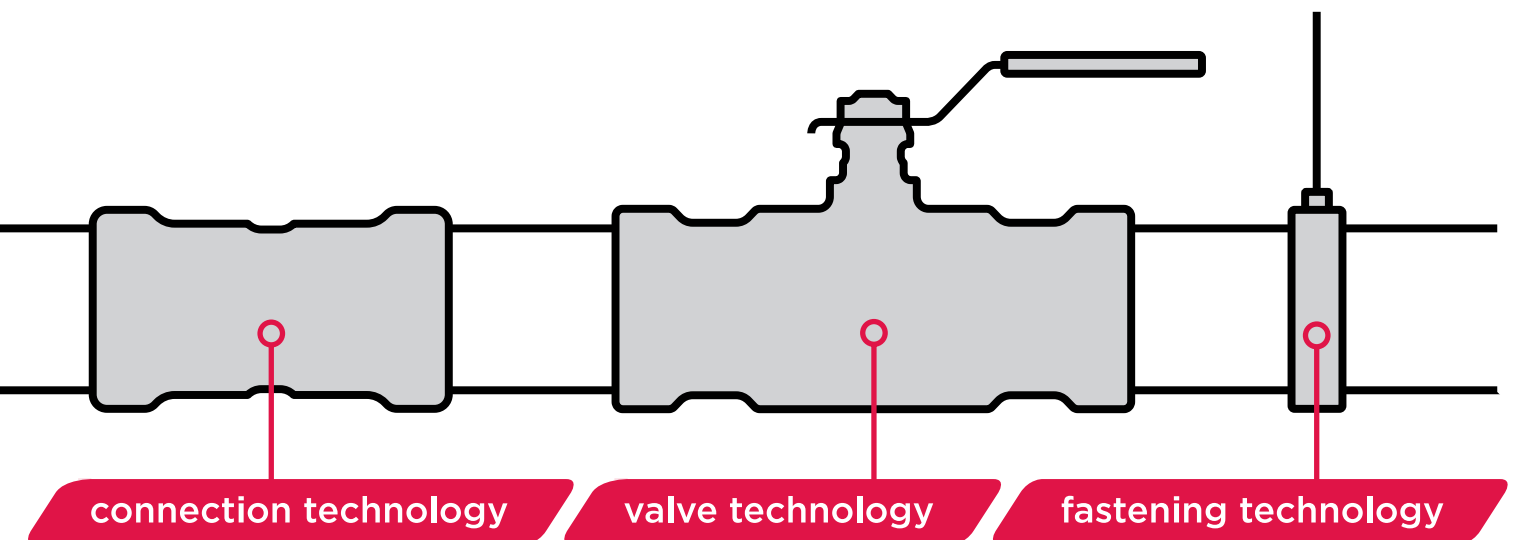
**Good is never good enough.**

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



For more information about Aalberts integrated piping systems, go to [www.aalberts-ips.com](http://www.aalberts-ips.com)

# our easy to connect product lines

Aalberts integrated piping systems is the combination of different companies with individual, well-known brands. Together they offer the best integrated piping system for now and in the future.

## 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

### connection technology

**VSH** delivers piping systems throughout the world for over 90 years. In the 1970's VSH brought the well-known VSH Super compression fitting on the market. Nowadays the range consists of various press, compression and push systems for thin and thick walled metal as well as plastic.

**Shurjoint** history dates back to 1974 when they produced their first grooved couplings, produced from malleable iron. Shurjoint is recognized as a world leader in the design and manufacture of mechanical piping components.

### valve technology

**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 is still a key player in the valve industry, continuously designing new valve solutions.

### fastening technology

The **FastFix** fastening range consists of brackets, rails and accessories for secure and efficient mounting. Designed for practical use across various applications, our products combine reliability with ease of installation. Whether for industrial setups or everyday solutions, we help you build with confidence.

### FastFix



new!

material	mild carbon steel / stainless steel
finishes	zinc plated / hot dip galvanised
suitable for	all types of piping systems
connection	¼" - 16" (DN8 - DN400)
options	with or without sound-absorbing insert & thermal insulation

### VSH CoolPress



new!

material	copper
suitable for	copper
connection	press / specific profile
Abmessungen	¼" - 1½" (DN8 - DN35)

### VSH PowerPress



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

### VSH SudoPress



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

### VSH Shurjoint



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

### VSH Super



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

### VSH SmartPress



material	stainless steel
suitable for	stainless steel (schedule 5S/10S)
connection	press / V-profile (ASP)
dimensions	½" - 2" (DN15 - DN50)

### Pegler Valves



material	brass / bronze / carbon steel / stainless steel
suitable for	steel / carbon steel / stainless steel / copper
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)

### Seppelfricke



material	brass
suitable for	steel / carbon steel / stainless steel / copper
connection	press (V & M profile) / threaded
dimensions	10 - 54 mm (DN8 - DN50)

### VSH XPress



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

### VSH UltraPress



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

### VSH Tectite



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





FastFix

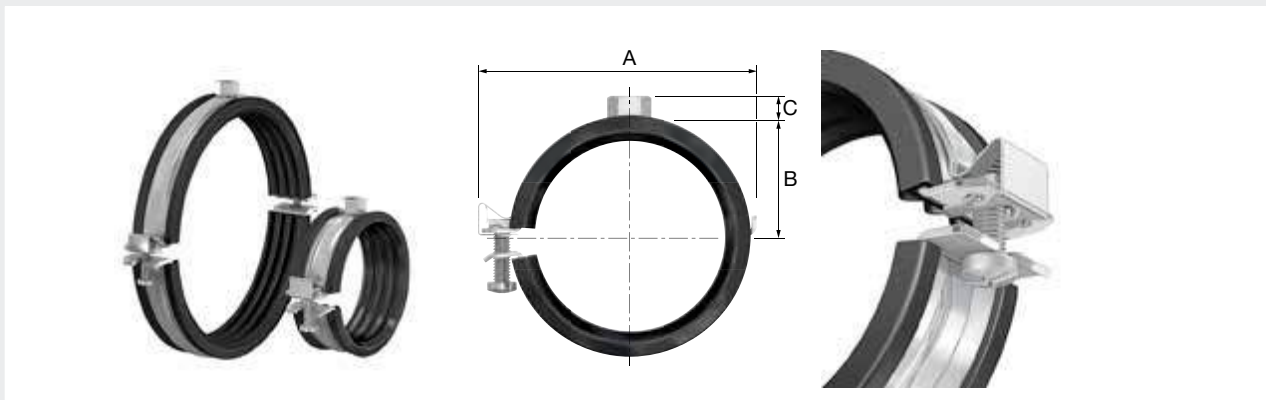
universal  
clips


## 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.



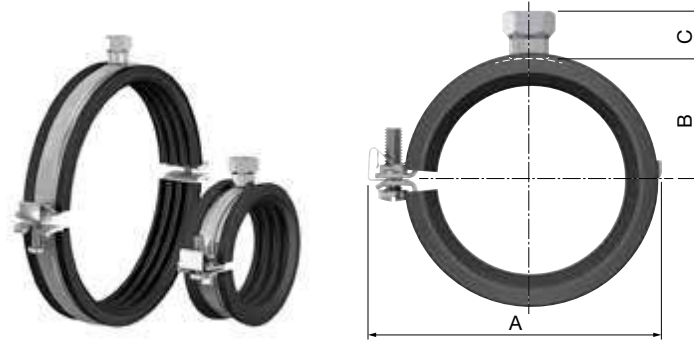
type	article number	pipe Ø		strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	Nom. ["]			A	B	C	
<b>BSA M8 x 12 - 13.5</b>	10-39200	12 - 13.5	¼	25 x 1.75	1300	45	14	8	100
<b>BSA M8 x 14 - 16</b>	10-39201	14 - 16	-	25 x 1.75	1300	47	15	8	100
<b>BSA M8 x 17 - 19</b>	10-39202	17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



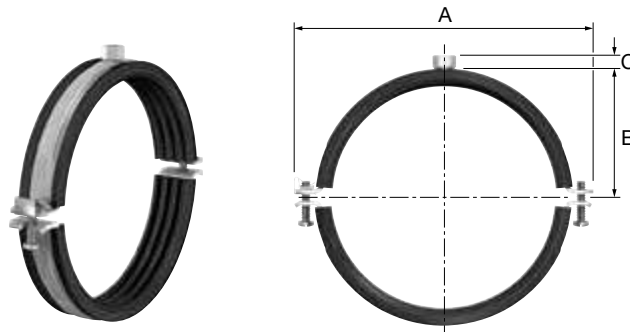
type	article number	Ø pipe		strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]			A	B	C	
<b>BSA M8/10 x 12 - 13.5</b>	10-39300	12 - 13.5	¼	25 x 1.75	1300	45	14	16	100
<b>BSA M8/10 x 14 - 16</b>	10-39301	14 - 16	-	25 x 1.75	1300	47	15	16	100
<b>BSA M8/10 x 17 - 19</b>	10-39302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



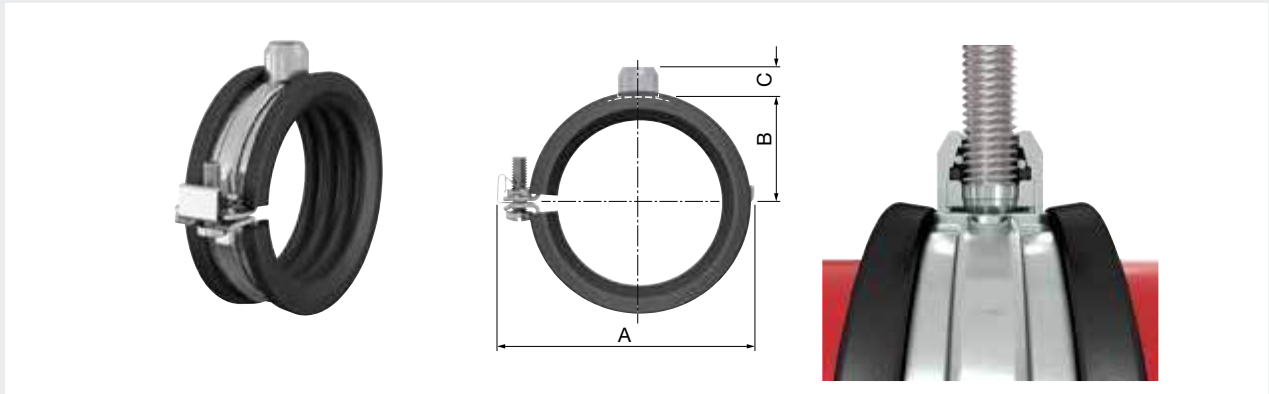
type	article number	Ø pipe		strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]			A	B	C	
<b>BSA M10 x 121 - 127</b>	10-39559	121 - 127	-	25 x 2.75	2000	184	71	10	25
<b>BSA M10 x 133 - 141</b>	10-39560	133 - 141	5	25 x 2.75	2000	195	78	10	25




## 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.

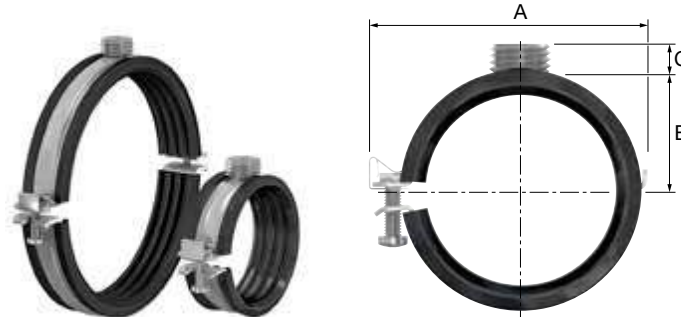



type	article number	Ø pipe			strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
<b>BSA-C M8 x 12 - 13.5</b>	10-39170	12	-13.5	¼	25 x 1.75	600	45	14	12	100
<b>BSA-C M8 x 14 - 16</b>	10-39171	14	-16	-	25 x 1.75	600	47	15	12	100
<b>BSA-C M8 x 17 - 19</b>	10-39172	17	-19	⅜	25 x 1.75	600	50	17	12	100
<b>BSA-C M8 x 20 - 24</b>	10-39173	20	-24	½	25 x 1.75	600	54	19	12	100
<b>BSA-C M8 x 25 - 28</b>	10-39174	25	-28	¾	25 x 1.75	600	59	21	12	100
<b>BSA-C M8 x 29 - 33</b>	10-39175	29	-33	-	25 x 1.75	600	63	23	12	100
<b>BSA-C M8 x 33 - 37</b>	10-39176	33	-37	1	25 x 1.75	600	70	27	12	100
<b>BSA-C M8 x 38 - 42</b>	10-39177	38	-42	1¼	25 x 1.75	600	78	31	12	100
<b>BSA-C M8 x 44.5 - 49</b>	10-39178	44.5	-49	1½	25 x 1.75	600	83	34	12	50
<b>BSA-C M8 x 50 - 54</b>	10-39179	50	-54	-	25 x 1.75	600	90	37	12	50
<b>BSA-C M8 x 56 - 60</b>	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	
<b>BSA ½ M/M10 x 12 - 13,5</b>	10-51900	12 - 13.5	¼	25 x 1.75	1300	45	14	10	50
<b>BSA ½ M/M10 x 14 - 16</b>	10-51901	14 - 16	-	25 x 1.75	1300	47	15	10	50
<b>BSA ½ M/M10 x 17 - 19</b>	10-51902	17 - 19	⅜	25 x 1.75	1300	50	17	10	50
<b>BSA ½ M/M10 x 20 - 24</b>	10-51903	20 - 24	½	25 x 1.75	1300	54	19	10	50
<b>BSA ½ M/M10 x 25 - 28</b>	10-51904	25 - 28	¾	25 x 1.75	1300	59	21	10	50
<b>BSA ½ M/M10 x 29 - 33</b>	10-51905	29 - 33	-	25 x 1.75	1300	63	23	10	50
<b>BSA ½ M/M10 x 33 - 37</b>	10-51906	33 - 37	1	25 x 1.75	1300	70	27	10	50
<b>BSA ½ M/M10 x 38 - 42</b>	10-51907	38 - 42	1¼	25 x 1.75	1300	78	31	10	50
<b>BSA ½ M/M10 x 44,5 - 49</b>	10-51908	44.5 - 49	1½	25 x 1.75	1300	83	34	10	50
<b>BSA ½ M/M10 x 50 - 54</b>	10-51909	50 - 54	-	25 x 1.75	1300	90	37	10	50
<b>BSA ½ M/M10 x 56 - 60</b>	10-51910	56 - 60	2	25 x 1.75	1300	96	40	10	50
<b>BSA ½ M/M10 x 62 - 64 *</b>	10-51920	62 - 64	-	25 x 2.75	2000	119	43	10	25
<b>BSA ½ M/M10 x 68 - 73 *</b>	10-51921	67 - 73	-	25 x 2.75	2000	126	46	10	25
<b>BSA ½ M/M10 x 75 - 80 *</b>	10-51922	75 - 80	2½	25 x 2.75	2000	133	50	10	25
<b>BSA ½ M/M10 x 82 - 86 *</b>	10-51923	82 - 86	-	25 x 2.75	2000	139	53	10	25
<b>BSA ½ M/M10 x 89 - 91 *</b>	10-51924	89 - 91	3	25 x 2.75	2000	145	56	10	25
<b>BSA ½ M/M10 x 95 - 102 *</b>	10-51926	95 - 102	3½	25 x 2.75	2000	157	62	10	25
<b>BSA ½ M/M10 x 108 - 116 *</b>	10-51927	108 - 116	4	25 x 2.75	2000	168	67	10	25
<b>BSA ½ M/M10 x 121 - 127 *</b>	10-51929	121 - 127	-	25 x 2.75	2000	184	71	10	25
<b>BSA ½ M/M10 x 133 - 141 *</b>	10-51930	133 - 141	5	25 x 2.75	2000	195	78	10	25
<b>BSA ½ M/M10 x 159 - 162 *</b>	10-51932	159 - 162	-	25 x 2.75	2000	220	93	10	25
<b>BSA ½ M/M10 x 165 - 168 *</b>	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) / M8/10 connection + G½" F (BSP) sleeve.



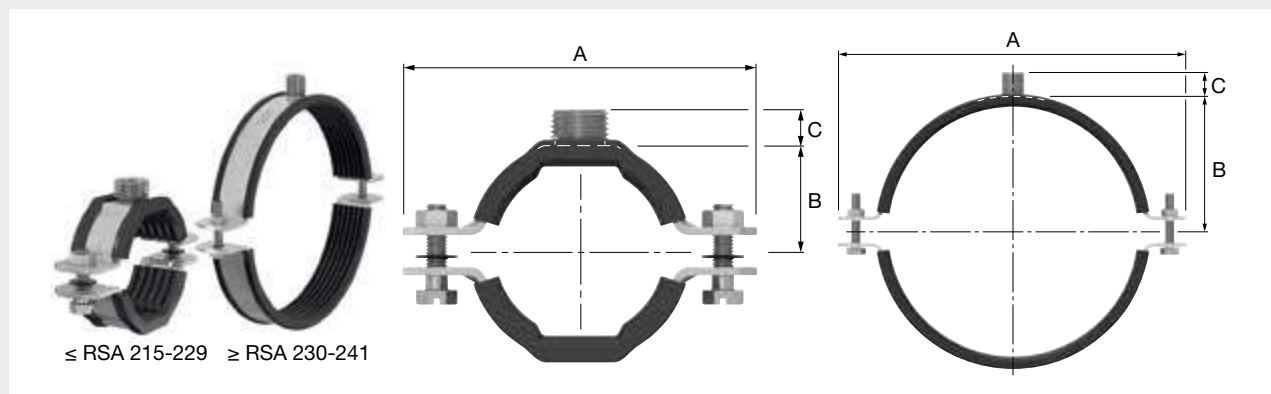
## RSA clips


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:
- RSA 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.  
 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.

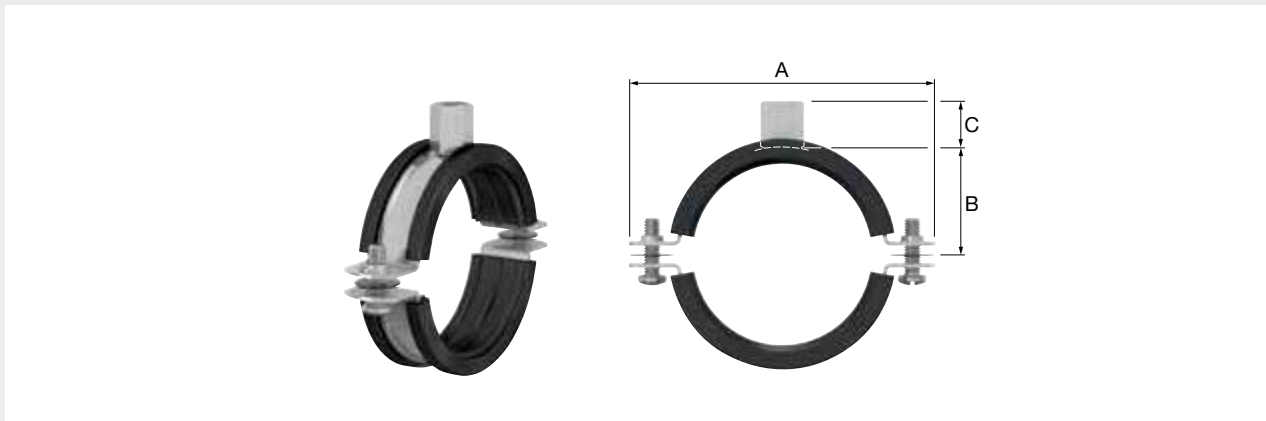



type	article number	Ø pipe		strip dimensions [mm]	connection	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
<b>RSA <math>\frac{3}{4}</math> M/M12/16 x 230 - 241</b>	10-54327	230 - 241.9	-	50 x 5.0	G $\frac{3}{4}$ " M/M12/16	9000	330	133.0	26	1
<b>RSA <math>\frac{3}{4}</math>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



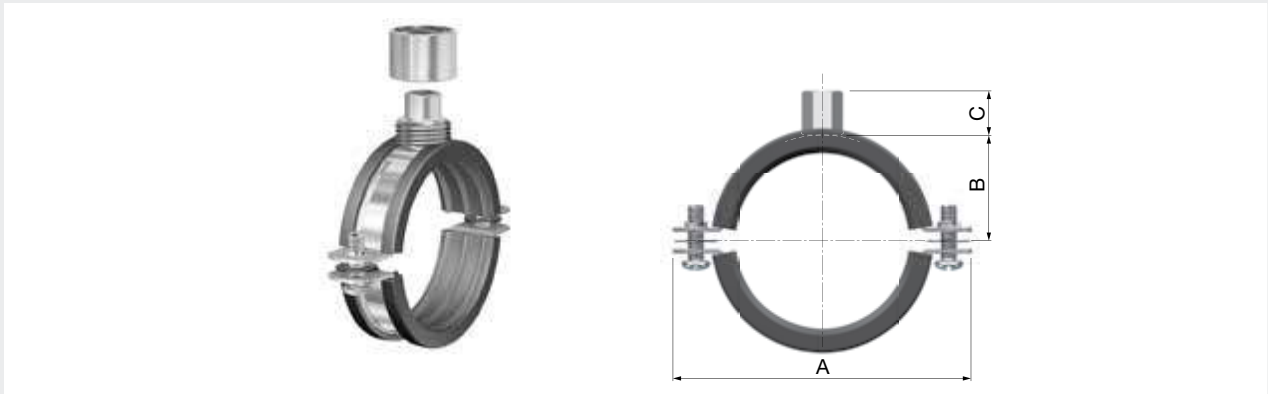
type	article number	Ø pipe		connection	strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
<b>BSI M8/10 x 8 - 10</b>	10-39023	8 - 10	⅛	M8/10	20 x 1.5	1000	53	13	16	50
<b>BSI M8/10 x 12 - 14</b>	10-39000	12 - 14	¼	M8/10	20 x 1.5	1000	58	15	16	50
<b>BSI M8/10 x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




## BSI ½ M+F / M8/10 clips

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

- Close fitting possible.
- Bolt with slot and cross head.
- 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 minimum 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.
- Equipped with Philips / slotted head screws.

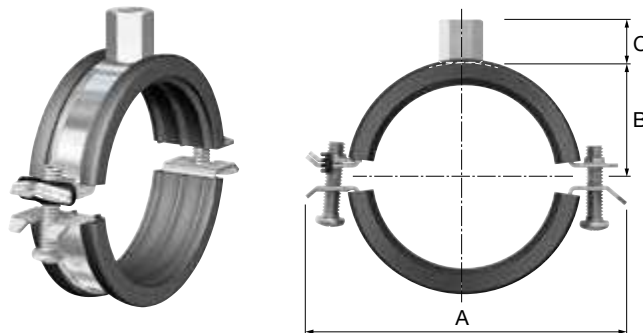



type	article number	Ø pipe		connection	strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
<b>BSI ½ M+F / M8/10 x 15 - 19</b>	10-59001	15 - 19	¾	G½" M/M8/10 + ½"	20 x 1.5	1000	62	18	20.5	50
<b>BSI ½ M+F / M8/10 x 20 - 25</b>	10-59002	20 - 25	½	G½" M/M8/10 + ½"	20 x 1.5	1000	69	21	20.5	50
<b>BSI ½ M+F / M8/10 x 26 - 30</b>	10-59003	26 - 30	¾	G½" M/M8/10 + ½"	20 x 1.5	1000	74	23	20.5	50
<b>BSI ½ M+F / M8/10 x 32 - 36</b>	10-59004	32 - 36	1	G½" M/M8/10 + ½"	20 x 1.5	1000	81	26	20.5	50
<b>BSI ½ M+F / M8/10 x 38 - 43</b>	10-59005	38 - 43	1¼	G½" M/M8/10 + ½"	20 x 1.5	1000	81	26	20.5	50
<b>BSI ½ M+F / M8/10 x 44 - 49</b>	10-59006	44 - 49	1½	G½" M/M8/10 + ½"	20 x 1.5	1000	94	33	20.5	50
<b>BSI ½ M+F / M8/10 x 50 - 55</b>	10-59007	50 - 55	1¾	G½" M/M8/10 + ½"	20 x 1.5	1000	103	36	20.5	50
<b>BSI ½ M+F / M8/10 x 56 - 61</b>	10-59008	56 - 61	2	G½" M/M8/10 + ½"	20 x 1.5	1000	106	39	20.5	50
<b>BSI ½ M+F / M8/10 x 62 - 67</b>	10-59009	62 - 67	-	G½" M/M8/10 + ½"	20 x 2.0	1300	113	42	20.5	50
<b>BSI ½ M+F / M8/10 x 75 - 80</b>	10-59011	75 - 80	2½	G½" M/M8/10 + ½"	20 x 2.0	1300	128	48	20.5	50
<b>BSI ½ M+F / M8/10 x 87 - 92</b>	10-59013	87 - 92	3	G½" M/M8/10 + ½"	20 x 2.0	1300	134	51	20.5	50
<b>BSI ½ M+F / M8/10 x 108 - 116</b>	10-59015	108 - 116	4	G½" M/M8/10 + ½"	20 x 2.5	2150	170	65	20.5	25
<b>BSI ½ M+F / M8/10 x 121 - 127</b>	10-59016	121 - 127	-	G½" M/M8/10 + ½"	20 x 2.5	2150	185	70	20.5	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.



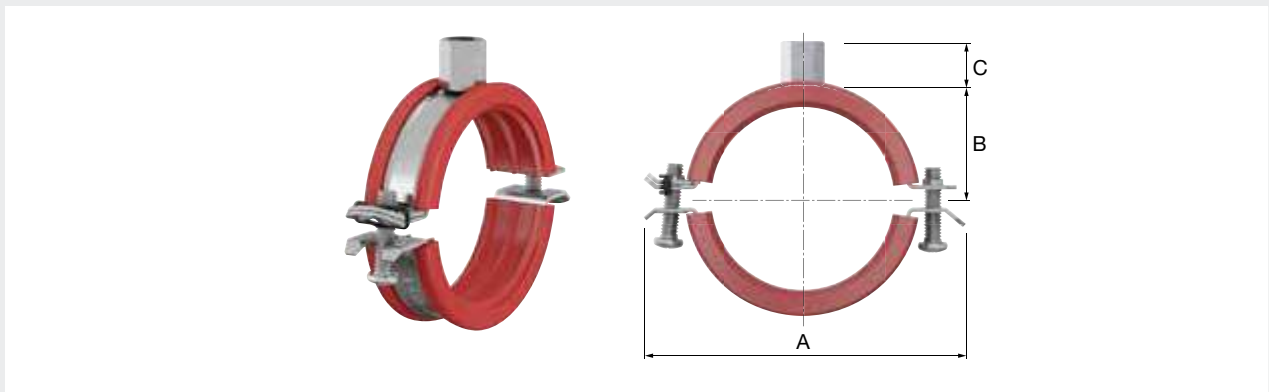
type	article number	Ø pipe		max. working load [N]	strip dimensions [mm]	dimensions [mm]			
		ext. [mm]	nom. ["]			A	B	C	
<b>BSM M8/10 x 12 - 14</b>	10-38170	12 - 14	¼	600	1.5 x 20	60	15.0	14	50
<b>BSM M8/10 x 15 - 18</b>	10-38171	15 - 18	⅜	750	1.5 x 20	64	17.0	14	50
<b>BSM M8/10 x 19 - 22</b>	10-38172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

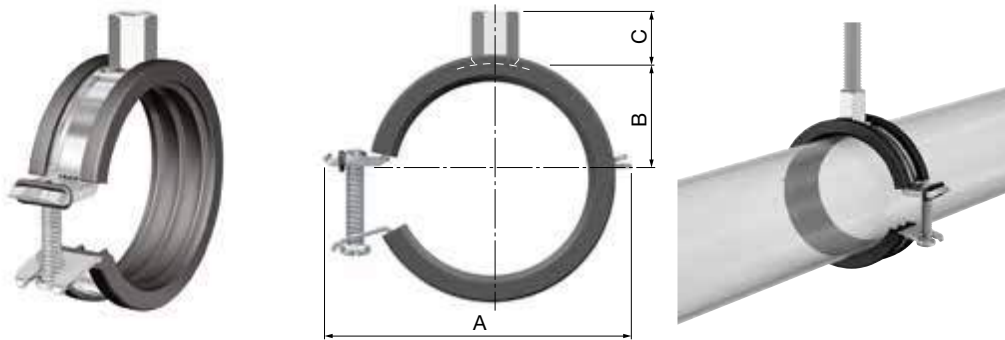



type	article number	Ø pipe		strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]			A	B	C	
<b>BSM-S M8/10 x 12 - 14</b>	10-38300	12 - 14	¼	1.5 x 20	600	60	15.0	14	50
<b>BSM-S M8/10 x 15 - 18</b>	10-38301	15 - 18	⅜	1.5 x 20	750	64	17.0	14	50
<b>BSM-S M8/10 x 19 - 22</b>	10-38302	19 - 22	½	1.5 x 20	750	68	19.0	14	50
<b>BSM-S M8/10 x 23 - 26</b>	10-38303	23 - 26	-	1.5 x 20	750	72	21.0	14	50
<b>BSM-S M8/10 x 27 - 30</b>	10-38304	27 - 30	¾	1.5 x 20	750	76	23.0	14	50
<b>BSM-S M8/10 x 32 - 35</b>	10-38305	32 - 35	1	1.5 x 20	750	81	25.5	14	50
<b>BSM-S M8/10 x 36 - 39</b>	10-38306	36 - 39	-	1.5 x 20	750	85	27.5	14	50
<b>BSM-S M8/10 x 40 - 44,5</b>	10-38307	40 - 44.5	1¼	1.5 x 20	750	90	30.0	14	50
<b>BSM-S M8/10 x 48 - 52</b>	10-38308	48 - 52	1½	1.5 x 20	750	98	34.0	14	50
<b>BSM-S M8/10 x 54 - 58</b>	10-38309	54 - 58	1¾	1.5 x 20	750	104	37.0	14	50
<b>BSM-S M8/10 x 58 - 61</b>	10-38310	58 - 61	2	1.5 x 20	850	107	38.5	14	50
<b>BSM-S M8/10 x 63 - 67</b>	10-38311	63 - 67	-	2.0 x 20	850	113	41.5	14	50
<b>BSM-S M8/10 x 75 - 80</b>	10-38313	75 - 80	2½	2.0 x 20	850	126	48.0	14	50
<b>BSM-S M8/10 x 88 - 92</b>	10-38315	88 - 92	3	2.0 x 20	850	138	54.0	14	50
<b>BSM-S M8/10 x 108 - 116</b>	10-38317	108 - 116	4	2.5 x 20	1500	162	66.0	14	25
<b>BSM-S M8/10 x 121 - 127</b>	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		connection	strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
<b>BSH M8/10 12 - 14</b>	10-38360	12 - 14	¼	M8/10	20 x 1.5	1000	50	7.0	15	50
<b>BSH M8/10 15 - 18</b>	10-38361	15 - 18	⅜	M8/10	20 x 1.5	1000	54	9.0	15	50
<b>BSH M8/10 19 - 22</b>	10-38362	19 - 22	½	M8/10	20 x 1.5	1000	58	11.0	15	50
<b>BSH M8/10 23 - 26</b>	10-38363	23 - 26	-	M8/10	20 x 1.5	1000	62	13.0	15	50
<b>BSH M8/10 27 - 30</b>	10-38364	27 - 30	¾	M8/10	20 x 1.5	1000	66	15.0	15	50
<b>BSH M8/10 32 - 35</b>	10-38365	32 - 35	1	M8/10	20 x 1.5	1000	71	17.5	15	50
<b>BSH M8/10 36 - 39</b>	10-38366	36 - 39	-	M8/10	20 x 1.5	1000	75	19.5	15	50
<b>BSH M8/10 40 - 44</b>	10-38367	40 - 44	1¼	M8/10	20 x 1.5	1000	80	22.0	15	50
<b>BSH M8/10 48 - 52</b>	10-38368	48 - 52	1½	M8/10	20 x 1.5	1000	88	26.0	15	50
<b>BSH M8/10 53 - 58</b>	10-38369	53 - 58	-	M8/10	20 x 1.5	1000	94	29.0	15	50
<b>BSH M8/10 58 - 61</b>	10-38370	58 - 61	2	M8/10	20 x 1.5	1000	97	30.0	15	50
<b>BSH M8/10 62 - 67</b>	10-38379	62 - 67	-	M8/10	20 x 2.0	1300	103	33.5	15	50
<b>BSH M8/10 68 - 74</b>	10-38371	68 - 74	-	M8/10	20 x 2.0	1300	110	37.0	15	50
<b>BSH M8/10 75 - 80</b>	10-38372	75 - 80	2½	M8/10	20 x 2.0	1300	116	40.0	15	50
<b>BSH M8/10 81 - 86</b>	10-38373	81 - 86	-	M8/10	20 x 2.0	1300	122	43.0	15	50
<b>BSH M8/10 87 - 92</b>	10-38374	87 - 92	3	M8/10	20 x 2.0	1300	128	46.0	15	50
<b>BSH M8/10 100 - 106</b>	10-38375	100 - 106	3½	M8/10	20 x 2.5	1300	146	53.0	15	25
<b>BSH M8/10 108 - 116</b>	10-38376	108 - 116	4	M8/10	20 x 2.5	1300	156	58.0	15	25
<b>BSH M8/10 121 - 127</b>	10-38377	121 - 127	-	M8/10	20 x 2.5	1300	167	63.5	15	25




**BSH ½ / M8/10**

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

- One piece clip with handy, quick closing mechanism.
- Close fitting possible.
- Bolt with slot and cross head.
- Suitable for high loads and temperatures.
- Noise-suppressing rubber strip: -15 dB(A) according to ISO 3822-1.  
To achieve maximum sound suppression do not overload the fitting.
- Safety margin for minimum breaking load (V) = 3.
- Clip: electrolytically zinc plated.
- 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		connection	strip dimensions [mm]	max. working load [N]	
		ext. [mm]	nom. ["]				
<b>BSH ½ M+F / M8/10 x 15 - 18</b>	10-38381	15 - 18	¾	G½" M / M8/10 + ½"	20 x 1.5	1000	50
<b>BSH ½ M+F / M8/10 x 19 - 22</b>	10-38382	19 - 22	½	G½" M / M8/10 + ½"	20 x 1.5	1000	50
<b>BSH ½ M+F / M8/10 x 23 - 26</b>	10-38383	23 - 26	-	G½" M / M8/10 + ½"	20 x 1.5	1000	50
<b>BSH ½ M+F / M8/10 x 27 - 30</b>	10-38384	27 - 30	¾	G½" M / M8/10 + ½"	20 x 1.5	1000	50
<b>BSH ½ M+F / M8/10 x 32 - 35</b>	10-38385	32 - 35	1	G½" M / M8/10 + ½"	20 x 1.5	1000	50
<b>BSH ½ M+F / M8/10 x 40 - 44</b>	10-38387	40 - 44	1¼	G½" M / M8/10 + ½"	20 x 1.5	1000	50
<b>BSH ½ M+F / M8/10 x 48 - 52</b>	10-38388	48 - 52	1½	G½" M / M8/10 + ½"	20 x 1.5	1000	50
<b>BSH ½ M+F / M8/10 x 53 - 58</b>	10-38389	53 - 58	-	G½" M / M8/10 + ½"	20 x 1.5	1000	50
<b>BSH ½ M+F / M8/10 x 62 - 67</b>	10-38391	62 - 67	-	G½" M / M8/10 + ½"	20 x 2.0	1300	50
<b>BSH ½ M+F / M8/10 x 75 - 80</b>	10-38392	75 - 80	2½	G½" M / M8/10 + ½"	20 x 2.0	1300	50
<b>BSH ½ M+F / M8/10 x 87 - 92</b>	10-38394	87 - 92	3	G½" M / M8/10 + ½"	20 x 2.0	1300	50
<b>BSH ½ M+F / M8/10 x 108 - 116</b>	10-38396	108 - 116	4	G½" M / M8/10 + ½"	20 x 2.5	1300	25
<b>BSH ½ M+F / M8/10 x 121 - 127</b>	10-38397	121 - 127	-	G½" M / M8/10 + ½"	20 x 2.5	1300	25

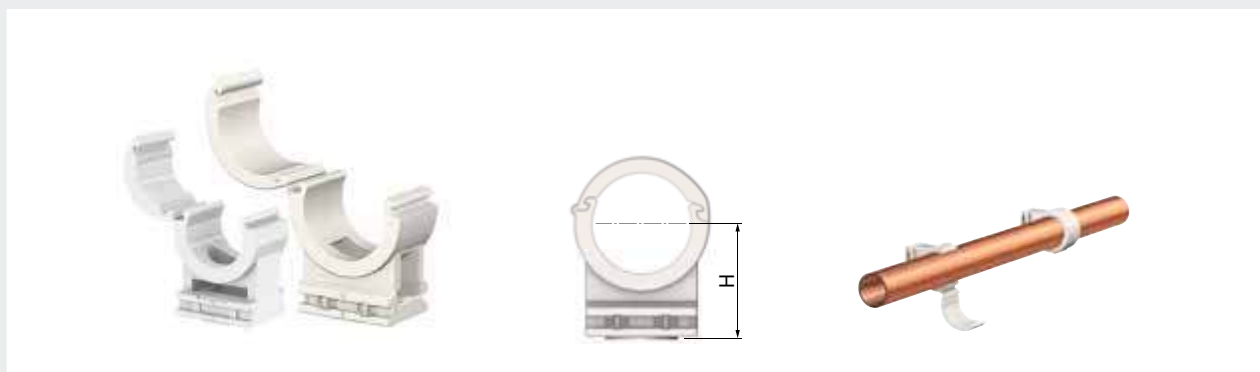



## clips for copper and thin-walled steel pipes

### 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 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.

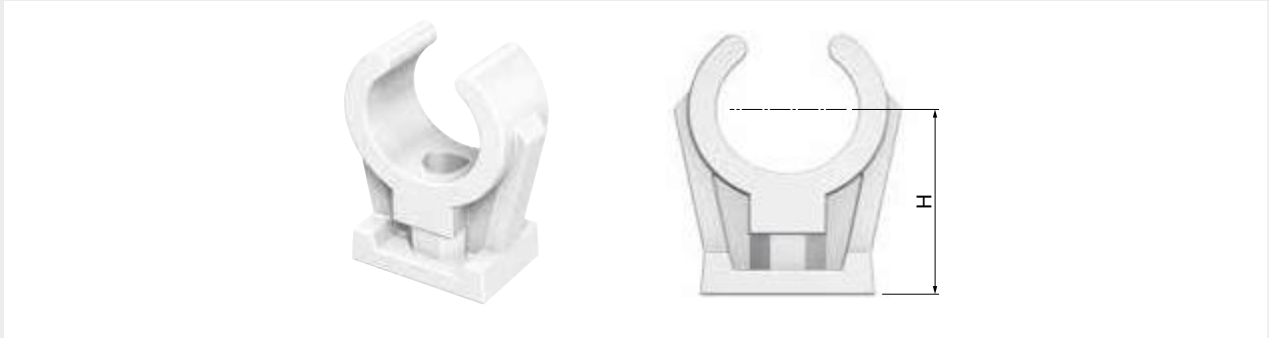



type	article number	ext. pipe Ø [mm]	minimum pull-out force [N]		dimensions [mm] H	
			cap open	cap closed		
<b>Variofit 12</b>	10-15112	12	100	500	20	500
<b>Variofit 15</b>	10-15115	15	100	500	20	500
<b>Variofit 22</b>	10-15122	22	100	700	25	250
<b>Variofit 28</b>	10-15128	28	100	700	25	250

## KS clips - M6

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

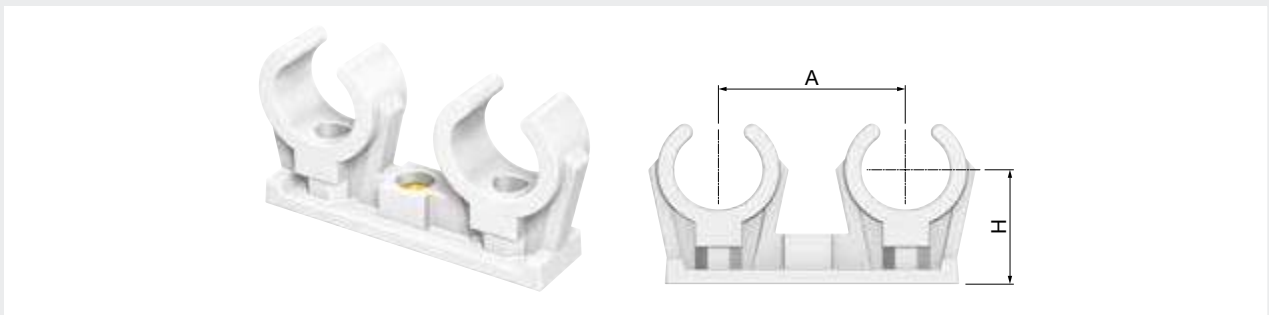
- Fast mounting.
- High quality polypropylene material provides excellent noise damping.
- With brass nut with M6 connection.
- Suitable for temperatures from -30°C up to +120°C.




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

## KSD clips - M6

Similar to the KS clip, but a double format.



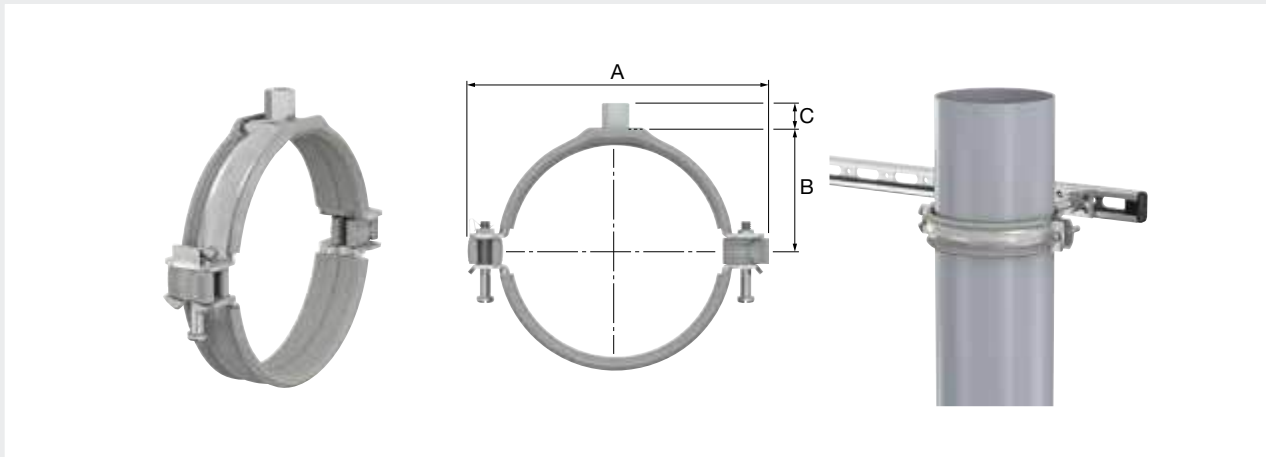
type	article number	ext. pipe Ø [mm]	dimensions [mm]		
			A	H	
<b>KSD 10</b>	10-62410	10	29	15.46	50
<b>KSD 12</b>	10-62412	12	33	17.6	50
<b>KSD 15</b>	10-62415	15	35	17.8	50
<b>KSD 18</b>	10-62418	18	38	23.2	50
<b>KSD 22</b>	10-62422	22	43	25.3	50


## 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.

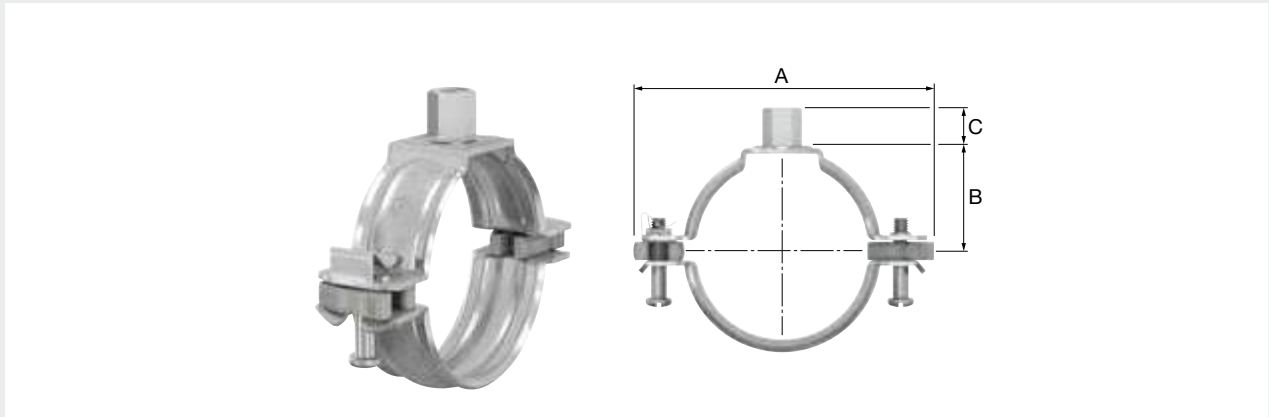



type	article number	ext. pipe Ø [mm]	strip dimensions [mm]	connection	max. working load [N]	dimensions [mm]			
						A	B	C	
<b>BSK-I M8/10 x 16</b>	10-37320	16	28 × 1.5	M8/10	1300	66	17	15	50
<b>BSK-I M8/10 x 20</b>	10-37321	20	28 × 1.5	M8/10	1300	70	19	15	50
<b>BSK-I M8/10 x 25</b>	10-37322	25	28 × 1.5	M8/10	1300	76	21	15	50
<b>BSK-I M8/10 x 32</b>	10-37323	32	28 × 1.5	M8/10	1300	83	26	15	50
<b>BSK-I M8/10 x 40</b>	10-37324	40	28 × 1.5	M8/10	1300	91	29	15	50
<b>BSK-I M8/10 x 50</b>	10-37325	50	28 × 1.5	M8/10	1300	101	34	15	50
<b>BSK-I M8/10 x 56</b>	10-37326	56	28 × 2.0	M8/10	1300	107	37	15	50
<b>BSK-I M8/10 x 63</b>	10-37327	63	28 × 2.0	M8/10	1300	116	40	15	50
<b>BSK-I M8/10 x 75</b>	10-37328	75	28 × 2.0	M8/10	2000	127	47	15	50
<b>BSK-I M8/10 x 90</b>	10-37329	90	28 × 2.0	M8/10	2000	140	50	15	50
<b>BSK-I M8/10 x 110</b>	10-37330	110	28 × 2.5	M8/10	2000	160	61	15	25
<b>BSK-I M8/10 x 125</b>	10-37331	125	28 × 2.5	M8/10	2000	176	68	15	25
<b>BSK-I M8/10 x 160</b>	10-37332	160	28 × 2.5	M8/10	2000	212	86	15	25
<b>BSK-I M8/10 x 200</b>	10-37333	200	28 × 2.5	M8/10	2000	252	106	15	10
<b>BSK-I M8/10 x 250</b>	10-37334	250	28 × 3.0	M8/10	2000	303	132	15	50
<b>BSK-I M8/10 x 315</b>	10-37335	315	28 × 3.0	M8/10	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	
<b>BSK M8/10 x 32</b>	10-37220	32	28 × 1.5	M8/10	1300	77	22	15	50
<b>BSK M8/10 x 40</b>	10-37221	40	28 × 1.5	M8/10	1300	85	26	15	50
<b>BSK M8/10 x 50</b>	10-37222	50	28 × 1.5	M8/10	1300	96	31	15	50
<b>BSK M8/10 x 56</b>	10-37223	56	28 × 2.0	M8/10	1300	102	34	15	50
<b>BSK M8/10 x 63</b>	10-37224	63	28 × 2.0	M8/10	1300	109	38	15	50
<b>BSK M8/10 x 70</b>	10-37225	70	28 × 2.0	M8/10	1300	116	41	15	50
<b>BSK M8/10 x 75</b>	10-37226	75	28 × 2.0	M8/10	2000	121	44	15	50
<b>BSK M8/10 x 80</b>	10-37227	80	28 × 2.0	M8/10	2000	129	45	15	50
<b>BSK M8/10 x 90</b>	10-37228	90	28 × 2.0	M8/10	2000	138	50	15	50
<b>BSK M8/10 x 100</b>	10-37229	100	28 × 2.0	M8/10	2000	148	55	15	50
<b>BSK M8/10 x 110</b>	10-37230	110	28 × 2.5	M8/10	2000	157	61	15	25
<b>BSK M8/10 x 125</b>	10-37231	125	28 × 2.5	M8/10	2000	175	68	15	25
<b>BSK M8/10 x 140</b>	10-37232	140	28 × 2.5	M8/10	2000	190	76	15	25
<b>BSK M8/10 x 160</b>	10-37233	160	28 × 2.5	M8/10	2000	211	86	15	25
<b>BSK M8/10 x 200</b>	10-37234	200	28 × 2.5	M8/10	2000	251	106	15	10
<b>BSK M8/10 x 250</b>	10-37235	250	28 × 3.0	M8/10	2000	302	132	15	50
<b>BSK M8/10 x 315</b>	10-37236	315	28 × 3.0	M8/10	2000	368	164	15	50

### PC plugclips

- For mounting plastic and multilayer tube. Also suitable for mounting underfloor heating pipes and cables.
- Available in single and double version.
- Very small drilling depth of 30 mm and drilling diameter of 6 mm.
- Easy mounting with a few hammer blows.
- Made of high quality plastic (HDPE) in the color white.
- Material is UV resistant and halogen free; suitable for outdoor use.
- Temperature range: -40° C to +90° C, mounting down to -20° C.

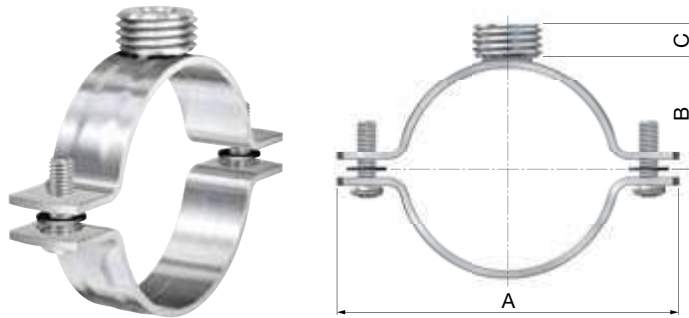



type	article number	Ø pipe ext. [mm]	
<b>PC 13 - 16 single</b>	10-15213	13 - 16	100
<b>PC 16 - 19 single</b>	10-15216	16 - 19	50
<b>PC 20 - 25 single</b>	10-15220	20 - 25	50
<b>PC 25 - 30 single</b>	10-15225	25 - 30	50
<b>PC 13 - 16 double</b>	10-15313	13 - 16	50
<b>PC 20 - 25 double</b>	10-15320	20 - 25	50
<b>PC 25 - 30 double</b>	10-15325	25 - 30	50

## clips for steel pipes

## BSF ½ M/M10 clips

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



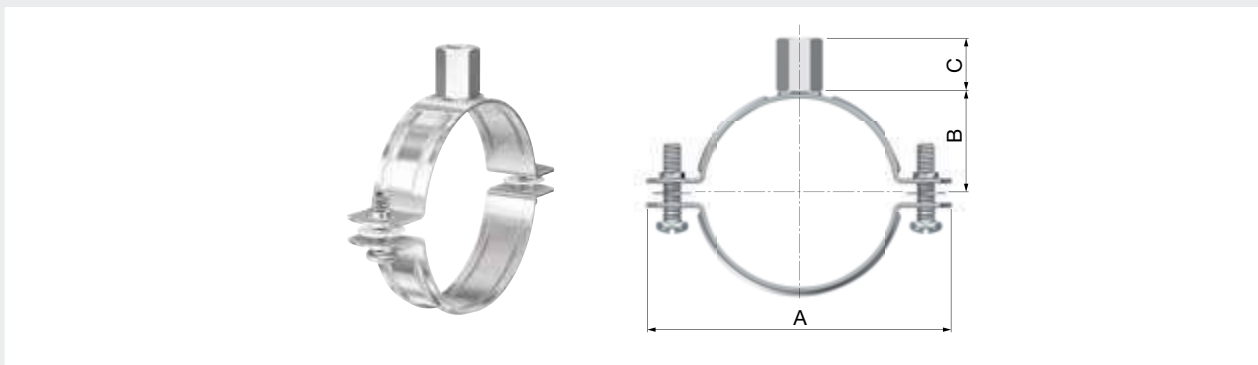
type	article number	Ø pipe		connection	strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
<b>BSF ½ M/M10 x 13 - 17.5</b>	10-51801	13 - 17.5	⅜	G½" M/M10	20 x 2.5	2000	53	11	10	50
<b>BSF ½ M/M10 x 21 - 25.5</b>	10-51802	21 - 25.5	½	G½" M/M10	20 x 2.5	2000	61	15	10	50
<b>BSF ½ M/M10 x 26.5 - 30.5</b>	10-51803	26.5 - 30.5	¾	G½" M/M10	20 x 2.5	2000	68	18	10	50
<b>BSF ½ M/M10 x 33.5 - 38.5</b>	10-51804	33.5 - 38.5	1	G½" M/M10	20 x 2.5	2000	76	22	10	50
<b>BSF ½ M/M10 x 41.5 - 47</b>	10-51805	41.5 - 47	1¼	G½" M/M10	20 x 2.5	2000	86	26	10	50
<b>BSF ½ M/M10 x 48 - 54</b>	10-51806	48 - 54	1½	G½" M/M10	20 x 2.5	2000	95	32	10	50
<b>BSF ½ M/M10 x 56 - 62.5</b>	10-51807	56 - 62.5	2	G½" M/M10	20 x 2.5	2000	104	34	10	50
<b>BSF ½ M/M10 x 62.5 - 69.5</b>	10-51808	62.5 - 69.5	-	G½" M/M10	20 x 2.5	2000	111	37	10	50
<b>BSF ½ M/M10 x 69.5 - 76.5</b>	10-51809	69.5 - 76.5	2½	G½" M/M10	20 x 2.5	2000	118	41	10	50
<b>BSF ½ M/M10 x 77.5 - 84</b>	10-51810	77.5 - 84	-	G½" M/M10	20 x 2.5	2000	125	45	10	50
<b>BSF ½ M/M10 x 85 - 92.5</b>	10-51811	85 - 92.5	3	G½" M/M10	20 x 2.5	2000	134	49	10	50
<b>BSF ½ M/M10 x 93 - 100.5</b>	10-51812	93 - 100.5	-	G½" M/M10	25 x 2.5	2500	152	53	10	25
<b>BSF ½ M/M10 x 101.5 - 110</b>	10-51813	101.5 - 110	-	G½" M/M10	25 x 2.5	2500	161	58	10	25
<b>BSF ½ M/M10 x 110 - 117.5</b>	10-51814	110 - 117.5	4	G½" M/M10	25 x 2.5	2500	169	61	10	25
<b>BSF ½ M/M10 x 119.5 - 127.5</b>	10-51815	119.5 - 127.5	-	G½" M/M10	25 x 2.5	2500	179	66	10	25
<b>BSF ½ M/M10 x 127.5 - 133.5</b>	10-51816	127.5 - 133.5	-	G½" M/M10	25 x 2.5	2500	185	69	10	25
<b>BSF ½ M/M10 x 134.5 - 142.5</b>	10-51817	134.5 - 142.5	5	G½" M/M10	30 x 3.0	3000	197	76	10	25
<b>BSF ½ M/M10 x 143.5 - 150.5</b>	10-51818	143.5 - 150.5	-	G½" M/M10	30 x 3.0	3000	205	78	10	25
<b>BSF ½ M/M10 x 151.5 - 159.5</b>	10-51819	151.5 - 159.5	-	G½" M/M10	30 x 3.0	3000	214	83	10	25
<b>BSF ½ M/M10 x 163.5 - 171.5</b>	10-51820	163.5 - 171.5	6	G½" M/M10	30 x 3.0	3000	226	89	10	25
<b>BSF ½ M/M10 x 172.5 - 182</b>	10-51821	172.5 - 182	-	G½" M/M10	30 x 3.0	3000	236	94	10	25
<b>BSF ½ M/M10 x 192.5 - 198</b>	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	
<b>BSU M8/10 x 15 - 18</b>	10-38270	15 - 18	3/8	M8/10	20 x 1.5	1000	50	11	16	50
<b>BSU M8/10 x 20 - 25</b>	10-38271	20 - 25	1/2	M8/10	20 x 1.5	1000	60	16	16	50
<b>BSU M8/10 x 26 - 30</b>	10-38272	26 - 30	3/4	M8/10	20 x 1.5	1000	64	19	16	50
<b>BSU M8/10 x 32 - 36</b>	10-38273	32 - 36	1	M8/10	20 x 1.5	1000	71	22	16	50
<b>BSU M8/10 x 38 - 43</b>	10-38274	38 - 43	1 1/4	M8/10	20 x 1.5	1000	79	25	16	50
<b>BSU M8/10 x 44 - 49</b>	10-38275	44 - 49	1 1/2	M8/10	20 x 1.5	1000	84	28	16	50
<b>BSU M8/10 x 56 - 61</b>	10-38276	56 - 61	2	M8/10	20 x 1.5	1000	93	34	16	50
<b>BSU M8/10 x 62 - 67</b>	10-38286	62 - 67	-	M8/10	20 x 1.5	1000	109	36	16	50
<b>BSU M8/10 x 75 - 80</b>	10-38277	75 - 80	2 1/2	M8/10	20 x 2.0	1300	118	44	16	50
<b>BSU M8/10 x 87 - 92</b>	10-38278	87 - 92	3	M8/10	20 x 2.0	1300	129	50	16	50
<b>BSU M8/10 x 108 - 116</b>	10-38279	108 - 116	4	M8/10	20 x 2.5	2150	160	62	16	25
<b>BSU M8/10 x 121 - 127</b>	10-38287	121 - 127	-	M8/10	20 x 2.5	2150	176	66	16	25
<b>BSU M10/12 x 131 - 141</b>	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.

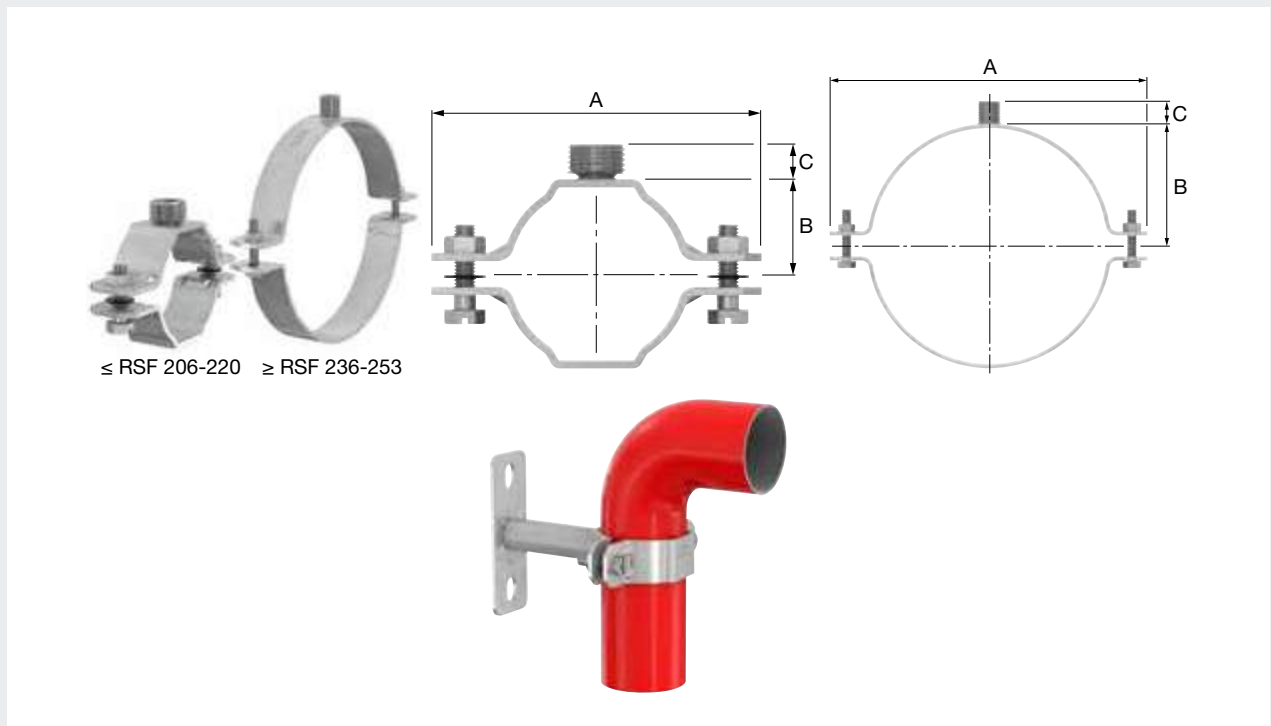
- Complete and comprehensive range.
- A special combinut with outer and inner thread makes a broad range of applications possible in combination with threaded rods and pipes.
- Electrolytically zinc plated.
- Execution:


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

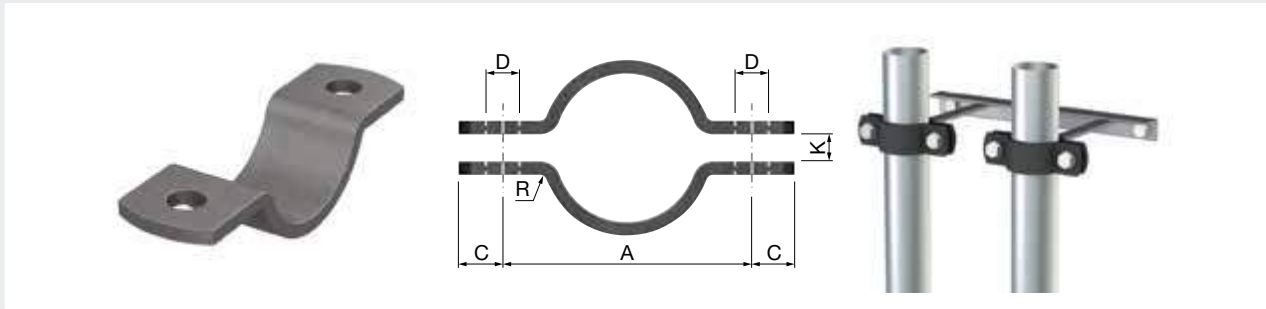



type	article number	Ø pipe		connection	suitable for FastFix and STRUT rail	dimensions [mm]		
		ext. [mm]	nom. ["]			A	B	
<b>UB M6 x 10 - 14</b>	10-81001	10 - 14	¼	M6	R1/R2/R8	35	30	100
<b>UB M6 x 15 - 18</b>	10-81002	15 - 18	⅜	M6	R1/R2/R8	36.5	30	100
<b>UB M6 x 19 - 22</b>	10-81003	19 - 22	½	M6	R1/R2/R8	38.5	30	100
<b>UB M8 x 23 - 27</b>	10-81004	23 - 27	¾	M8	R0-2/R8/STRUT	45	40	50
<b>UB M8 x 28 - 34</b>	10-81005	28 - 34	1	M8	R0-2/R8/STRUT	49	40	50
<b>UB M8 x 35 - 43</b>	10-81006	35 - 43	1¼	M8	R0-2/R8/STRUT	53	40	50
<b>UB M8 x 44 - 49</b>	10-81007	44 - 49	1½	M8	R0/R1/R2/R8	56	40	50
<b>UB M8 x 50 - 61</b>	10-81008	50 - 61	2	M8	R1/R2/R8	62	45	50
<b>UB M8 x 62 - 70</b>	10-81009	62 - 70	-	M8	R1/R2/R8	67	45	50
<b>UB M8 x 71 - 77</b>	10-81010	71 - 77	2½	M8	R0/R1/R2/R8	70	45	50
<b>UB M10 x 78 - 89</b>	10-81011	78 - 89	3	M10	R1/R2/R8/STRUT	82	50	20
<b>UB M10 x 90 - 102</b>	10-81012	90 - 102	3½	M10	R1/R2/R8/STRUT	88	50	20
<b>UB M10 x 109 - 115</b>	10-81014	109 - 115	4	M10	R1/R2/R8	94	50	20
<b>UB M12 x 134 - 140</b>	10-81017	134 - 140	5	M12	R4/R7/R8	130	80	20
<b>UB M12 x 160 - 169</b>	10-81019	160 - 169	6	M12	R4/R7/R8	150	85	20

### 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. Ø [mm]	strip dimensions [mm]	needed bolts*	dimensions [mm]					torque* [Nm]	max. axial shear [N]	
		ext. [mm]	nom. ["]				A	C	D	K	R [mm]			
<b>KB 27</b>	10-37901	27	¾	20	30 x 5.0	M10 x 30	66	15	11.5	7	7	50	1000	1
<b>KB 34</b>	10-37903	34	1	25	30 x 5.0	M10 x 30	72	15	11.5	7	7	50	2500	1
<b>KB 43</b>	10-37905	43	1¼	32	30 x 5.0	M10 x 30	82	15	11.5	7	7	50	2500	1
<b>KB 49</b>	10-37907	49	1½	40	30 x 5.0	M10 x 30	88	15	11.5	7	7	50	2500	1
<b>KB 61</b>	10-37909	61	2	50	40 x 6.0	M12 x 35	108	18	14	9	9	90	5000	1
<b>KB 77</b>	10-37910	77	2½	65	40 x 6.0	M12 x 35	122	18	14	9	9	90	5000	1
<b>KB 89</b>	10-37911	89	3	80	40 x 6.0	M12 x 35	136	18	14	9	9	90	5000	1
<b>KB 115</b>	10-37913	115	4	100	50 x 8.0	M16 x 45	178	24	18	11	12	230	10000	1
<b>KB 140</b>	10-37915	140	5	125	50 x 8.0	M16 x 45	204	24	18	11	12	230	10000	1
<b>KB 169</b>	10-37917	169	6	150	50 x 8.0	M16 x 45	232	24	18	11	12	230	10000	1
<b>KB 220</b>	10-37921	220	8	200	50 x 8.0	M16 x 45	284	24	18	11	12	230	10000	1
<b>KB 273</b>	10-37923	273	10	250	60 x 8.0	M20 x 50	348	30	23	14	12	460	15000	1
<b>KB 324</b>	10-37925	324	12	300	60 x 8.0	M20 x 50	398	30	23	14	12	460	15000	1
<b>KB 407</b>	10-37928	407	16	400	70 x 10.0	M24 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

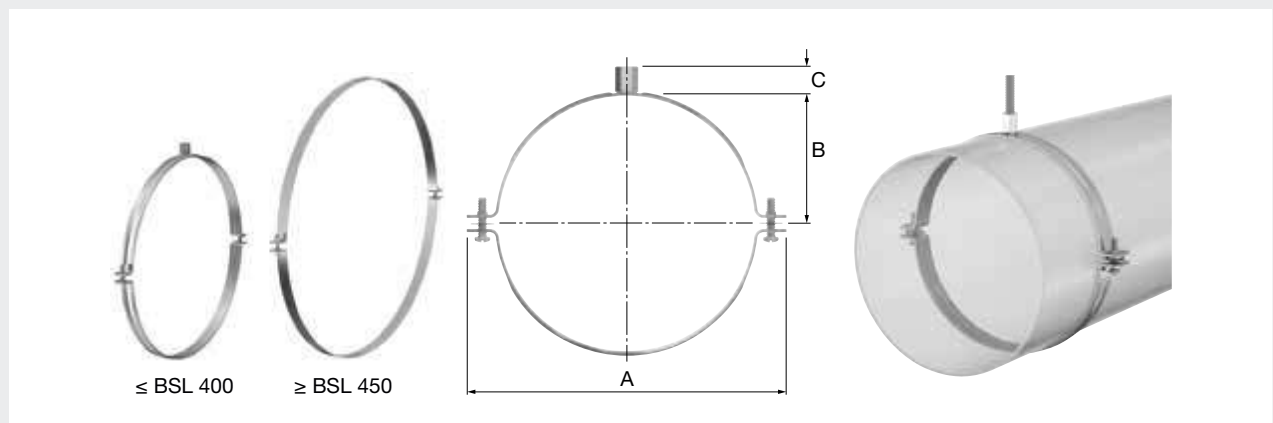
### BSL clips


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).

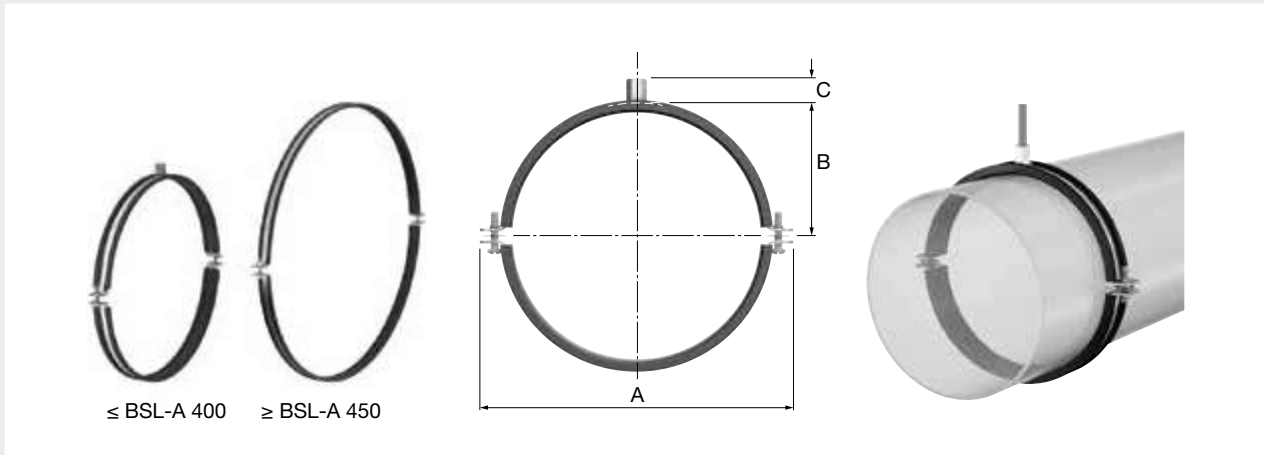



type	article number	Ø pipe int. dia. [mm]	max. working load [N]	strip dimensions [mm]	Side-mounted connections	dimensions [mm]			
						A	B	C	
<b>BSL 63</b>	10-39929	63	850	20 x 2.0	M6 x 25	102	35	15	50
<b>BSL 80</b>	10-39901	80	850	20 x 1.5	M6 x 25	124	43	15	50
<b>BSL 100</b>	10-39903	100	850	20 x 1.5	M6 x 25	144	53	15	25
<b>BSL 112</b>	10-39904	112	850	20 x 1.5	M6 x 25	156	59	15	25
<b>BSL 125</b>	10-39905	125	850	20 x 1.5	M6 x 25	169	66	15	25
<b>BSL 140</b>	10-39906	140	850	20 x 1.5	M6 x 25	184	73	15	25
<b>BSL 150</b>	10-39907	150	850	20 x 1.5	M6 x 25	194	78	15	25
<b>BSL 160</b>	10-39908	160	850	20 x 1.5	M6 x 25	204	84	15	25
<b>BSL 180</b>	10-39909	180	850	20 x 1.5	M6 x 25	224	94	15	25
<b>BSL 200</b>	10-39910	200	850	20 x 1.5	M6 x 25	244	104	15	25
<b>BSL 224</b>	10-39911	224	850	20 x 1.5	M6 x 25	268	116	15	25
<b>BSL 250</b>	10-39912	250	850	20 x 1.5	M6 x 25	294	129	15	25
<b>BSL 280</b>	10-39913	280	850	20 x 1.5	M6 x 25	324	144	15	25
<b>BSL 300</b>	10-39914	300	850	20 x 1.5	M6 x 25	344	154	15	25
<b>BSL 315</b>	10-39915	315	850	20 x 1.5	M6 x 25	359	161	15	25
<b>BSL 355</b>	10-39916	355	850	20 x 1.5	M6 x 40	399	181	15	25
<b>BSL 400</b>	10-39917	400	850	20 x 1.5	M6 x 40	444	204	15	25
<b>BSL 450</b>	10-39918	450	2500	25 x 2.5	M8 x 35 *	515	230	15	1
<b>BSL 500</b>	10-39919	500	2500	25 x 2.5	M8 x 35 *	565	255	15	1
<b>BSL 560</b>	10-39920	560	2500	25 x 2.5	M8 x 35 *	625	285	15	1
<b>BSL 600</b>	10-39928	600	2500	25 x 2.5	M8 x 35 *	665	306	15	1
<b>BSL 630</b>	10-39921	630	2500	25 x 2.5	M8 x 35 *	695	321	15	1
<b>BSL 710</b>	10-39922	710	2500	25 x 2.5	M8 x 35 *	775	361	15	1
<b>BSL 800</b>	10-39923	800	2500	25 x 2.5	M8 x 35 *	865	406	15	1
<b>BSL 900</b>	10-39924	900	2500	25 x 2.5	M8 x 35 *	965	456	15	1
<b>BSL 1000</b>	10-39925	1000	2500	25 x 2.5	M8 x 35 *	1065	506	15	1
<b>BSL 1120</b>	10-39926	1120	2500	25 x 3.0	M8 x 35 *	1185	566	15	1
<b>BSL 1250</b>	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	
<b>BSL-A 80</b>	10-39951	80	850	20 x 1.5	M6 x 25	128	47	15	50
<b>BSL-A 100</b>	10-39953	100	850	20 x 1.5	M6 x 25	150	57	15	25
<b>BSL-A 112</b>	10-39954	112	850	20 x 1.5	M6 x 25	170	63	15	25
<b>BSL-A 125</b>	10-39955	125	850	20 x 1.5	M6 x 25	185	69	15	25
<b>BSL-A 140</b>	10-39956	140	850	20 x 1.5	M6 x 25	195	77	15	25
<b>BSL-A 150</b>	10-39957	150	850	20 x 1.5	M6 x 25	205	82	15	25
<b>BSL-A 160</b>	10-39958	160	850	20 x 1.5	M6 x 25	215	87	15	25
<b>BSL-A 180</b>	10-39959	180	850	20 x 1.5	M6 x 25	240	97	15	25
<b>BSL-A 200</b>	10-39960	200	850	20 x 1.5	M6 x 25	265	107	15	25
<b>BSL-A 224</b>	10-39961	224	850	20 x 1.5	M6 x 25	277	119	15	25
<b>BSL-A 250</b>	10-39962	250	850	20 x 1.5	M6 x 25	303	132	15	25
<b>BSL-A 280</b>	10-39963	280	850	20 x 1.5	M6 x 25	333	147	15	25
<b>BSL-A 300</b>	10-39964	300	850	20 x 1.5	M6 x 25	353	157	15	25
<b>BSL-A 315</b>	10-39965	315	850	20 x 1.5	M6 x 25	368	165	15	25
<b>BSL-A 355</b>	10-39966	355	850	20 x 1.5	M6 x 40	408	185	15	25
<b>BSL-A 400</b>	10-39967	400	850	20 x 1.5	M6 x 40	453	207	15	25
<b>BSL-A 450</b>	10-39968	450	2500	25 x 2.5	M8 x 35 *	514	233	15	1
<b>BSL-A 500</b>	10-39969	500	2500	25 x 2.5	M8 x 35 *	564	258	15	1
<b>BSL-A 560</b>	10-39970	560	2500	25 x 2.5	M8 x 35 *	624	288	15	1
<b>BSL-A 600</b>	10-39978	600	2500	25 x 2.5	M8 x 35 *	664	309	15	1
<b>BSL-A 630</b>	10-39971	630	2500	25 x 2.5	M8 x 35 *	694	324	15	1
<b>BSL-A 710</b>	10-39972	710	2500	25 x 2.5	M8 x 35 *	774	364	15	1
<b>BSL-A 800</b>	10-39973	800	2500	25 x 2.5	M8 x 35 *	864	409	15	1
<b>BSL-A 900</b>	10-39974	900	2500	25 x 2.5	M8 x 35 *	964	459	15	1
<b>BSL-A 1000</b>	10-39975	1000	2500	25 x 2.5	M8 x 35 *	1064	509	15	1
<b>BSL-A 1120</b>	10-39976	1120	2500	25 x 3.0	M8 x 35 *	1184	569	15	1
<b>BSL-A 1250</b>	10-39977	1250	2500	25 x 3.0	M8 x 35 *	1314	634	15	1

\* Bolt and nut.





FastFix

insulating  
clips

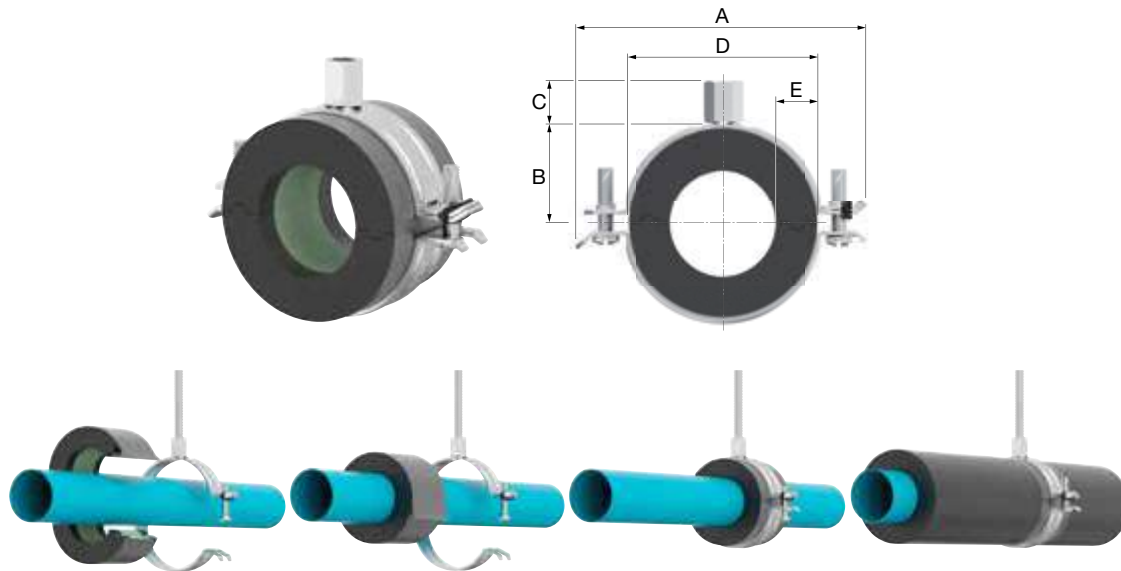



## clips with elastomer insulation

### CB clips - 13 mm

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

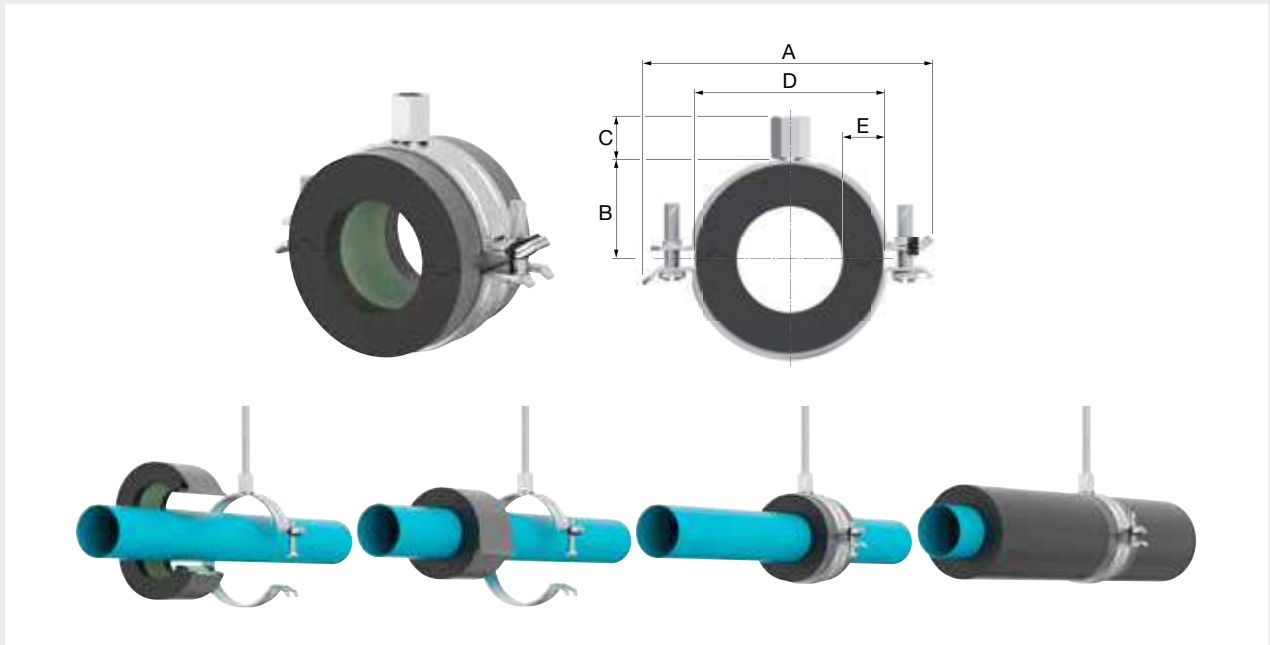
- Clip: Electrolytically zinc plated.
- Insulation: 13 Elastomeric foam with a PIR core and coated with a black PVC foil.
- Easy to bond with pipework insulation. No thermal bridge.
- Connection: M8/10.
- Insulation width: 50 mm.
- All clips are fitted with two cross head screws.
- Clips fitted with 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/m<sup>3</sup>, PIR pressure resistance 0.52 N/mm<sup>2</sup>: 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/m<sup>3</sup>, PIR pressure resistance 1.3 N/mm<sup>2</sup>: 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	
<b>CB 13 x 10</b>	10-39847	10	-	50	20 x 1.5	73	21	15	36	13	10
<b>CB 13 x 12</b>	10-39848	12	-	50	20 x 1.5	73	22	15	38	13	10
<b>CB 13 x 15</b>	10-39870	15	-	50	20 x 1.5	81	23	15	41	13	10
<b>CB 13 x 18</b>	10-39871	18	-	70	20 x 1.5	81	23	15	44	13	10
<b>CB 13 x 22 - ½</b>	10-39872	22	½	80	20 x 1.5	85	25	15	48	13	10
<b>CB 13 x 28 - ¾</b>	10-39873	28	¾	100	20 x 1.5	90	28	15	54	13	10
<b>CB 13 x 35 - 1</b>	10-39874	35	1	130	20 x 1.5	98	32	15	61	13	10
<b>CB 13 x 42 - 1¼</b>	10-39875	42	1¼	160	20 x 2.0	107	36	15	68	13	10
<b>CB 13 x 48-50 - 1½</b>	10-39876	50	1½	180	20 x 2.0	115	40	15	76	13	10
<b>CB 13 x 54</b>	10-39841	54	-	210	20 x 2.0	122	43	15	80	13	10
<b>CB 13 x 60 - 2</b>	10-39877	60	2	230	20 x 2.0	134	49	15	86	13	10
<b>CB 13 x 64</b>	10-39843	64	-	240	20 x 2.0	134	49	15	92	14	10
<b>CB 13 x 76 - 2½</b>	10-39878	76	2½	740	20 x 2.5	155	60	15	111	17	10
<b>CB 13 x 89-90 - 3</b>	10-39879	90	3	850	20 x 2.5	165	65	15	125	17	10
<b>CB 13 x 114 - 4</b>	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.



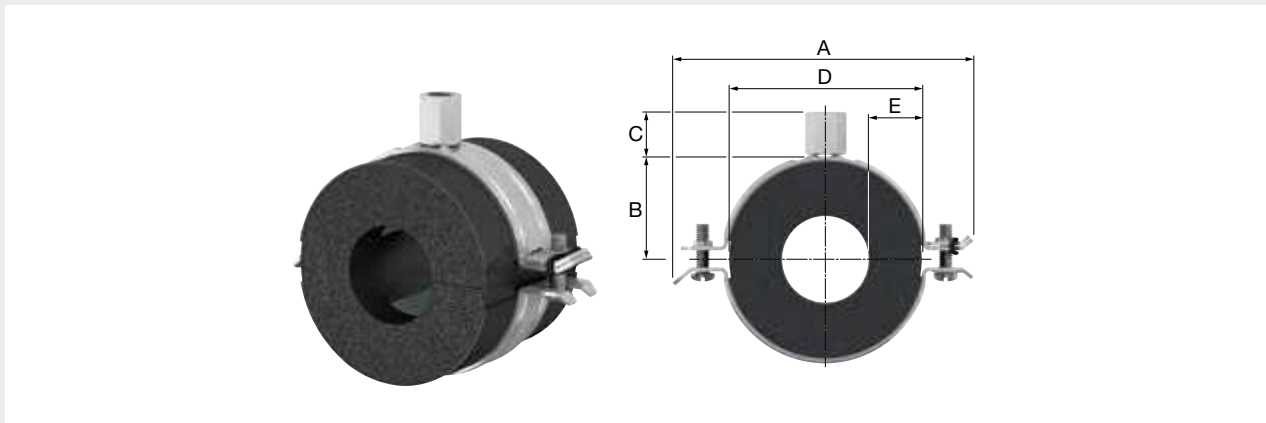
type	article number	Ø pipe		max. vertical working load [N]	strip dimensions [mm]	dimensions [mm]					
		ext. [mm]	nom. ["]			A	B	C	D	E	
<b>CB 19 x 18</b>	10-39886	18	-	70	20 x 1.5	98	32	15	64	19	10
<b>CB 19 x 22 - 1/2</b>	10-39887	22	1/2	80	20 x 1.5	98	32	15	64	19	10
<b>CB 19 x 28 - 3/4</b>	10-39888	28	3/4	100	20 x 1.5	104	35	15	70	19	10
<b>CB 19 x 35 - 1</b>	10-39889	35	1	130	20 x 1.5	115	40	15	80	19	10
<b>CB 19 x 42 - 1 1/4</b>	10-39890	42	1 1/4	160	20 x 2.0	122	43	15	86	19	10
<b>CB 19 x 48-50 - 1 1/2</b>	10-39891	50	1 1/2	190	20 x 2.0	128	46	15	92	19	10
<b>CB 19 x 54</b>	10-39897	54	-	210	20 x 2.0	134	49	15	98	19	10
<b>CB 19 x 60 - 2</b>	10-39892	60	2	230	20 x 2.0	140	52	15	104	19	10
<b>CB 19 x 64</b>	10-39898	64	-	240	20 x 2.0	140	52	15	104	20	10
<b>CB 19 x 76 - 2 1/2</b>	10-39893	76	2 1/2	290	20 x 2.5	155	60	15	120	20	10
<b>CB 19 x 89-90 - 3</b>	10-39894	90	3	850	20 x 2.5	177	70	15	140	24	10
<b>CB 19 x 114 - 4</b>	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 FastFix CK clips with AF Armaflex 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/m<sup>3</sup>.
- PET pressure resistance: 1.5 N/mm<sup>2</sup>.
- Thermal conductivity: 0.033 W/(m.K).
- Vapour barrier: min 10,000 µ.
- Fire rating B / B<sub>1</sub>-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	
<b>CBA-2 x 10 - 12 - 1/8 - 1/4</b>	10-49000	10 - 13.5	1/8 - 1/4	48	20 x 1.5	73	20.0	15	36	12.0	32
<b>CBA-2 x 15 - 18 - 3/8</b>	10-49001	15 - 18	3/8	70	20 x 1.5	81	22.0	15	43	12.5	24
<b>CBA-2 x 22 - 25 - 1/2</b>	10-49002	21.3 - 25	1/2	94	20 x 1.5	85	24.0	15	47	12.5	24
<b>CBA-2 x 28 - 30 - 3/4</b>	10-49003	26.9 - 30	3/4	126	20 x 1.5	90	26.5	15	53	12.5	16
<b>CBA-2 x 35 - 38 - 1</b>	10-49004	33.7 - 38	1	177	20 x 1.5	98	30.5	15	61	13.0	12
<b>CBA-2 x 42 - 45 - 1 1/4</b>	10-49005	42 - 45	1 1/4	223	20 x 1.5	107	35.0	15	72	13.5	12
<b>CBA-2 x 48 - 51 - 1 1/2</b>	10-49006	48 - 51	1 1/2	305	20 x 2.0	115	38.0	15	76	14.0	12
<b>CBA-2 x 54 - 57</b>	10-49007	54 - 57	-	322	20 x 2.0	122	41.5	15	85	14.0	12
<b>CBA-2 x 60 - 64 - 2</b>	10-49008	60 - 64	2	493	20 x 2.0	134	47.5	15	92	14.0	10
<b>CBA-2 x 76 - 80 - 2 1/2</b>	10-49009	76 - 80	2 1/2	801	20 x 2.5	155	57.5	15	109	14.5	12
<b>CBA-2 x 89 - 3</b>	10-49010	89	3	1143	20 x 2.5	165	62.5	15	118	14.5	8
<b>CBA-2 x 110 - 114 - 4</b>	10-49011	110 - 114.3	4	2150	20 x 2.5	192	75.0	15	144	15.0	4

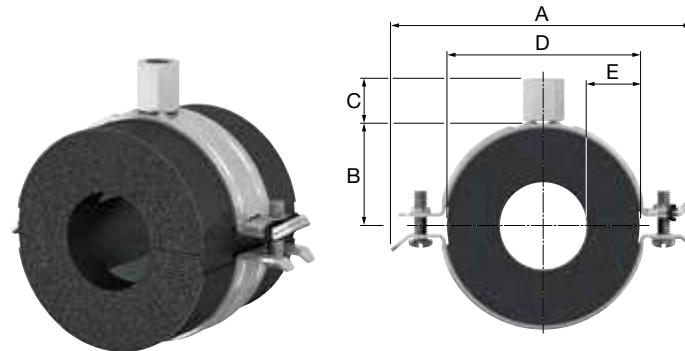
\* The max. working load will be determined by the insulation.


## 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 until 24) fitted with retaining ring.
- Connection CBA-4 x 10 - 12 - 1/8 - 1/4 till CBA-4 x 110 - 114 - 4: M8/10.
- Connection CBA-4 x 133 - 140 - 5 till CBA-4 x 216 - 219 - 8: M10/12.

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

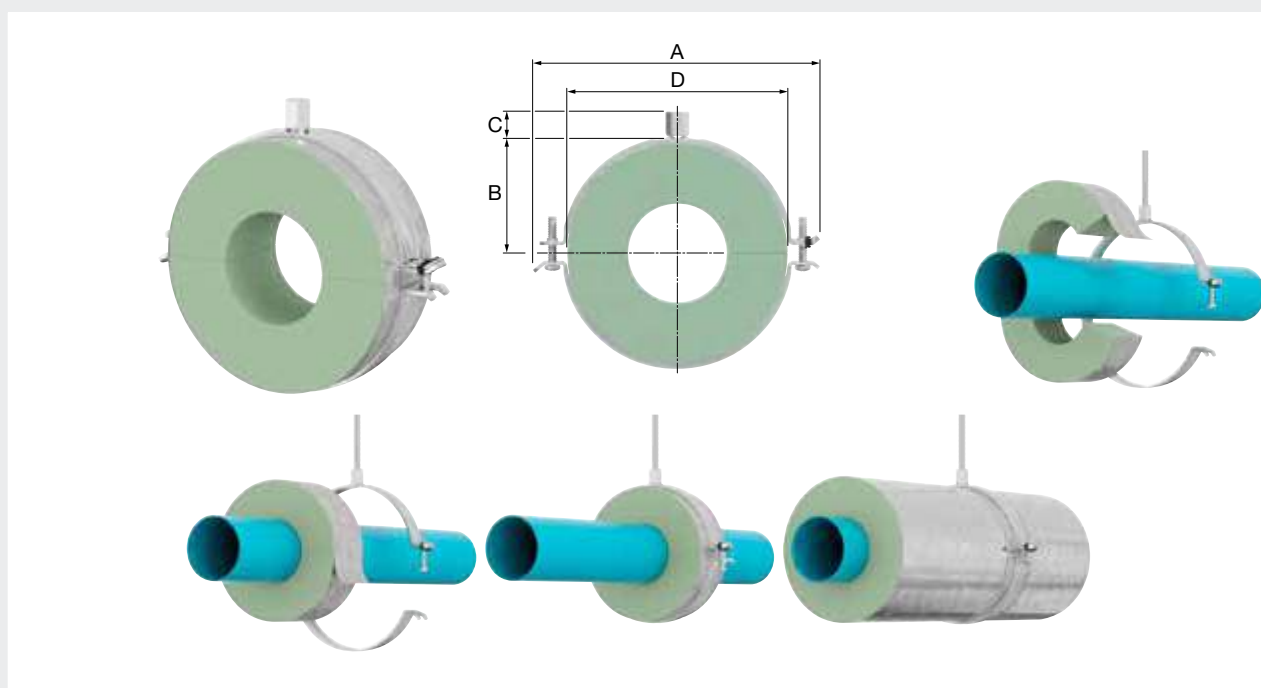
\*\* Pipe with a diameter of 33.7 mm cannot be mounted clamping as standard.


## clips with polyisocyanurate (pir) insulation

### CC clips - 20 mm

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

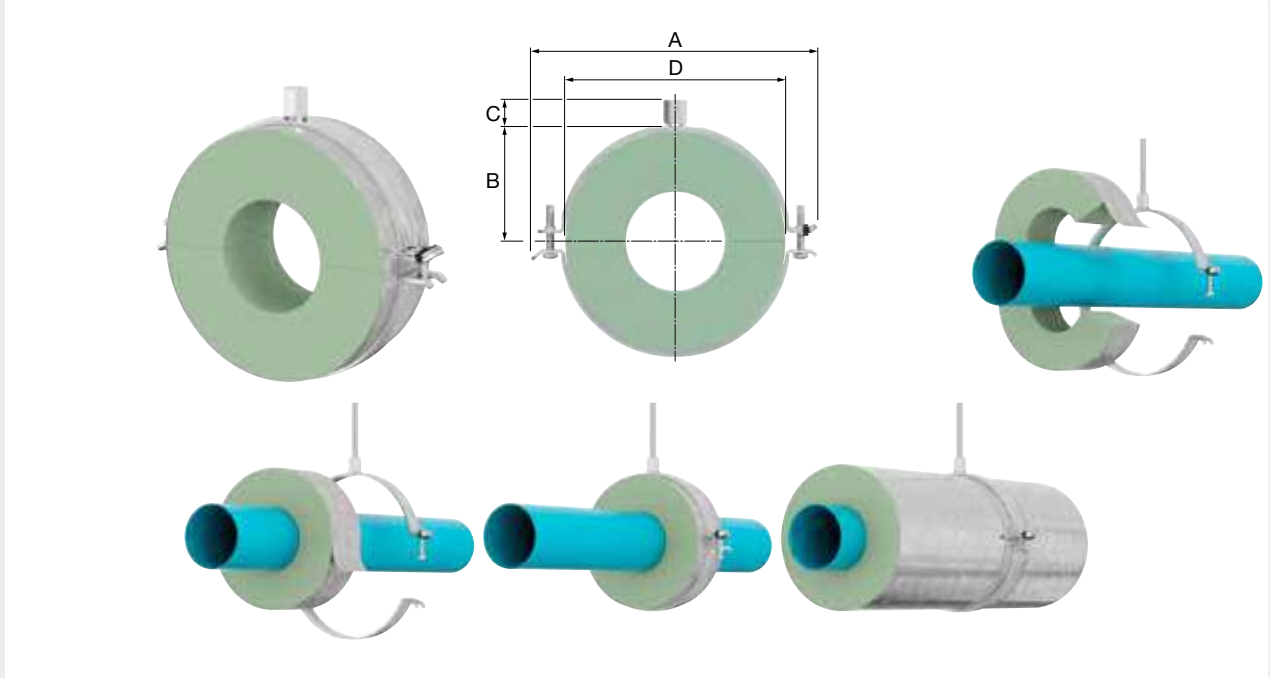
- Clip: Electrolytically zinc plated.
- Insulation: 20 mm hard PIR insulation, coated with an aluminum foil.
- Connection: M8/10.
- Insulation width: 50 mm.
- All clips are fitted with two cross head screws.
- Clips fitted with quick-locking system and bolts designed not to fall out during installation.
- PIR density 80 kg/m<sup>3</sup>, PIR pressure resistance 0.65 N/mm<sup>2</sup>.
- Suitable for temperatures from -200°C up to +120°C.
- Thermal conductivity: maximal 0.029 W/(m.K).
- Vapour permeability: 30,000 μ.




type	article number	Ø pipe		max. vertical working load [N]	strip dimensions [mm]	dimensions [mm]				
		ext. [mm]	nom. ["]			A	B	C	D	
CC 20 x 15	10-39720	15	-	102	20 x 1.5	90	26,5	15	55	10
CC 20 x 18 - 3/8	10-39721	18	3/8	123	20 x 1.5	98	30,5	15	58	10
CC 20 x 22 - 1/2	10-39722	22	1/2	150	20 x 1.5	98	30,5	15	62	10
CC 20 x 28 - 3/4	10-39723	28	3/4	191	20 x 1.5	107	35	15	68	10
CC 20 x 35 - 1	10-39724	35	1	238	20 x 2.0	115	38	15	75	10
CC 20 x 42 - 1 1/4	10-39725	42	1 1/4	286	20 x 2.0	122	41,5	15	82	10
CC 20 x 48 - 1 1/2	10-39726	48	1 1/2	327	20 x 2.0	128	44,5	15	88	10
CC 20 x 54	10-39727	54	-	368	20 x 2.0	134	47,5	15	94	10
CC 20 x 60 - 2	10-39728	60	2	408	20 x 2.0	140	50,5	15	100	10

## CC clips - 30 mm

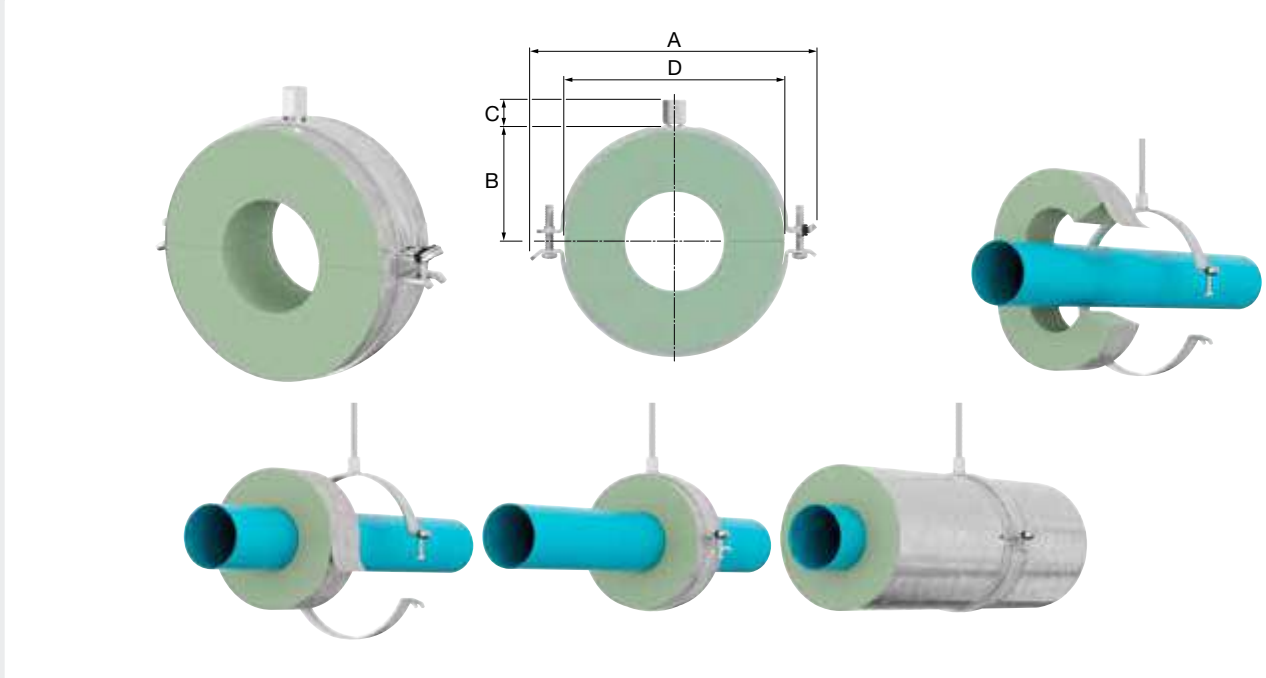
- Similar to CC clips - 20 mm, but with 30 mm PIR insulation with aluminium liner.
- Clips fitted with quick-locking system and bolts designed not to fall out during installation: all sizes up to CC 30 x 76-2½".
- Clips fitted with retaining ring: all sizes above CC 30 x 76-2½".




type	article number	Ø pipe		max. vertical working load [N]	strip dimensions [mm]	dimensions [mm]				
		ext. [mm]	nom. ["]			A	B	C	D	
CC 30 x 15	10-39770	15	-	102	20 x 2.0	115	40	15	74	10
CC 30 x 18 - ⅜	10-39771	18	⅜	119	20 x 2.0	115	40	15	77	10
CC 30 x 22 - ½	10-39772	22	½	146	20 x 2.0	122	43	15	81	10
CC 30 x 28 - ¾	10-39773	28	¾	187	20 x 2.0	128	46	15	87	10
CC 30 x 35 - 1	10-39774	35	1	235	20 x 2.0	134	49	15	94	10
CC 30 x 42 - 1¼	10-39775	42	1¼	289	20 x 2.0	140	52	15	102	10
CC 30 x 48-50 - 1½	10-39776	48	1½	329	20 x 2.5	155	60	15	108	10
CC 30 x 54	10-39777	54	-	368	20 x 2.5	155	60	15	114	10
CC 30 x 60 - 2	10-39779	60	2	410	20 x 2.5	165	65	15	120	10
CC 30 x 70	10-39780	70	-	476	20 x 2.5	167	66	15	130	10
CC 30 x 76 - 2½	10-39781	76	2½	517	20 x 2.5	177	70	15	136	10
CC 30 x 89 - 3	10-39782	89	3	605	20 x 2.5	192	77	15	149	10
CC 30 x 108	10-39783	108	-	735	20 x 2.5	211	87	15	168	10
CC 30 x 114 - 4	10-39784	114	4	778	20 x 2.5	211	87	15	174	10
CC 30 x 133	10-39785	133	-	905	20 x 3.0	245	104	15	193	10
CC 30 x 139 - 5	10-39786	139	5	951	20 x 3.0	245	104	15	200	10

**CC clips - 40 mm**

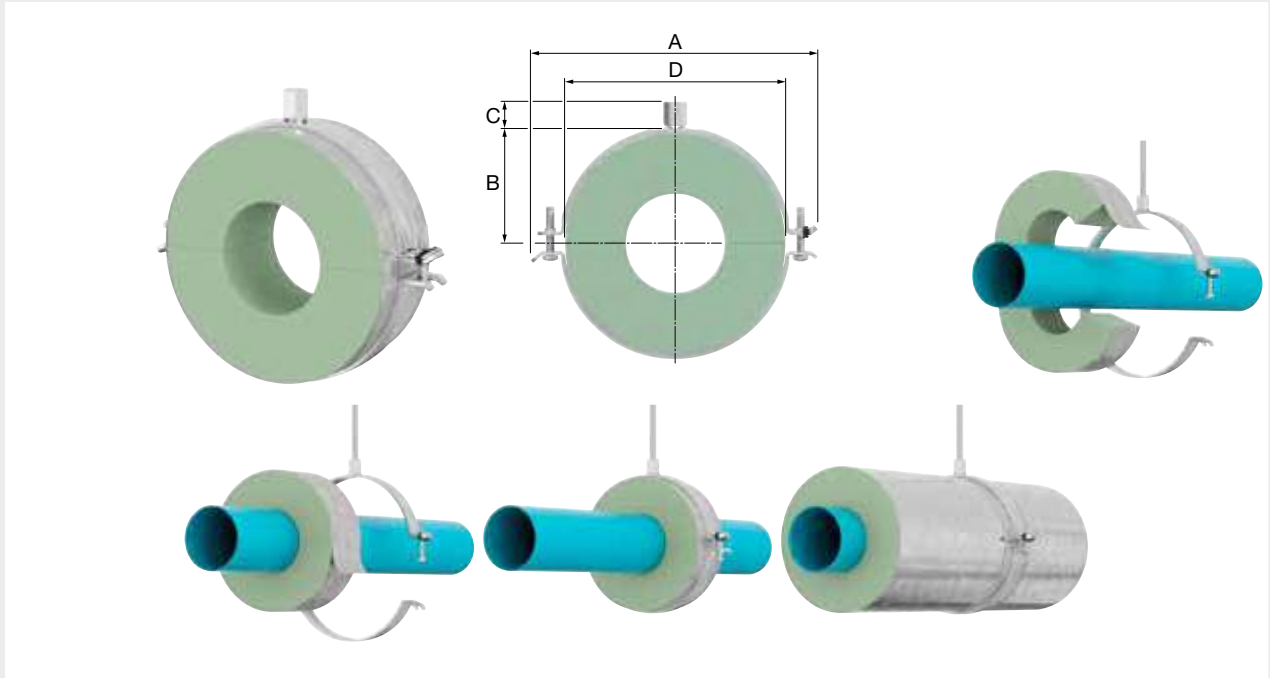
- Similar to CC clips - 20 mm, but with 40 mm PIR insulation with aluminium liner.
- Clips fitted with quick-locking system and bolts designed not to fall out during installation: all sizes up to CC 40 x 60-2".
- Clips fitted with retaining ring: all sizes above CC 40 x 60-2".




type	article number	Ø pipe		max. vertical working load [N]	strip dimensions [mm]	dimensions [mm]				
		ext. [mm]	nom. ["]			A	B	C	D	
CC 40 x 15	10-39850	15	-	102	20 x 2.0	134	49	15	95	10
CC 40 x 18 - 3/8	10-39851	18	3/8	119	20 x 2.0	140	52	15	97	10
CC 40 x 22 - 1/2	10-39852	22	1/2	146	20 x 2.0	140	52	15	101	10
CC 40 x 28 - 3/4	10-39853	28	3/4	187	20 x 2.0	155	60	15	107	10
CC 40 x 35 - 1	10-39854	35	1	235	20 x 2.0	155	60	15	114	10
CC 40 x 42 - 1 1/4	10-39855	42	1 1/4	289	20 x 2.0	165	65	15	122	10
CC 40 x 48 - 1 1/2	10-39856	48	1 1/2	329	20 x 2.5	167	66	15	128	10
CC 40 x 54	10-39857	54	-	368	20 x 2.5	177	70	15	134	10
CC 40 x 60 - 2	10-39859	60	2	410	20 x 2.5	177	70	15	140	10
CC 40 x 70	10-39860	70	-	476	20 x 2.5	192	77	15	150	10
CC 40 x 76 - 2 1/2	10-39861	76	2 1/2	517	20 x 2.5	205	84	15	156	10
CC 40 x 89 - 3	10-39862	89	3	605	20 x 2.5	211	87	15	169	10
CC 40 x 108	10-39863	108	-	735	20 x 2.5	240	96	15	188	10
CC 40 x 114 - 4	10-39864	114	4	778	20 x 2.5	270	104	15	194	10
CC 40 x 140 - 5	10-39866	140	5	951	20 x 3.0	288	117	15	220	10

## CC clips - 50 mm

- Similar to CC clips - 20 mm, but with 50 mm PIR insulation with aluminium liner.
- Clips fitted with quick-locking system and bolts designed not to fall out during installation: all sizes up to CC 50 x 28- $\frac{3}{4}$ ".
- Clips fitted with retaining ring: all sizes above CC 50 x 28- $\frac{3}{4}$ ".



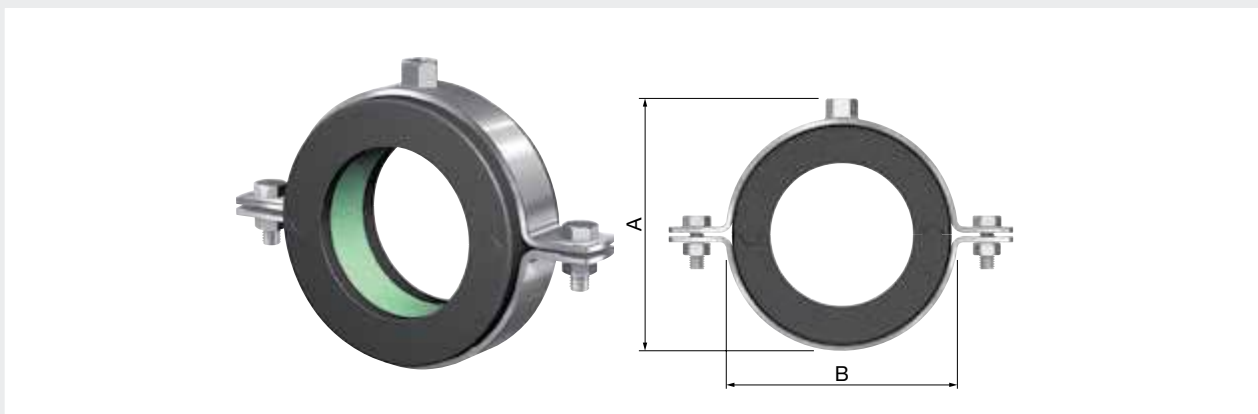
type	article number	Ø pipe		max. vertical working load [N]	strip dimensions [mm]	dimensions [mm]				
		ext. [mm]	nom. ["]			A	B	C	D	
CC 50 x 22 - ½	10-39752	22	½	150	20 x 2.5	165	62.5	15	122	10
CC 50 x 28 - ¾	10-39753	28	¾	191	20 x 2.5	167	63.5	15	128	10
CC 50 x 35 - 1	10-39754	35	1	238	20 x 2.5	177	68	15	135	10
CC 50 x 42 - 1¼	10-39755	42	1¼	286	20 x 2.5	192	75	15	142	10
CC 50 x 48 - 1½	10-39756	48	1½	327	20 x 2.5	192	75	15	148	10
CC 50 x 54	10-39757	54	-	368	20 x 2.5	192	75	15	154	10
CC 50 x 60 - 2	10-39758	60	2	408	20 x 2.5	205	81.5	15	160	10
CC 50 x 76 - 2½	10-39761	76	2½	517	20 x 2.5	211	84.5	15	176	10
CC 50 x 89 - 3	10-39762	89	3	606	20 x 2.0	245	94.5	15	189	10
CC 50 x 114 - 4	10-39763	114	4	776	20 x 3.0	270	105.5	15	214	10
CC 50 x 140 - 5	10-39765	140	5	953	40 x 2.5	319	132.5	18	240	10
CC 50 x 168 - 6	10-39767	168	6	1144	40 x 2.5	344	145	18	268	10


## with elastomer insulation

### CA Clips - 19 mm

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

- Clip and pipework insulation form an integral component.
- 'Hook' shape allows easy pre-mounting of pipe.
- Pipe can still be moved positioned after pre-mounting.
- Easy to glue bond with pipework insulation. No thermal bridge.
- Screw fitted with a retaining ring.
- Clip: Electrolytically zinc plated.
- Insulation: 19 mm elastomeric foam with PIR core and coated with an aluminum foil.
- Connection: M12 with side connection bolt/nut M10.
- Insulation width: 100 mm.
- PIR density 120 kg/m<sup>3</sup>, PIR pressure resistance 1,3 N/mm<sup>2</sup>.
- Suitable for temperatures from -45°C up to +105°C.
- Thermal conductivity: maximal 0.036 W/(m.K).
- Vapour permeability: 7,000 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.



type	article number	Ø pipe		strip dimensions [mm]	max. working load *		dimensions		
		ext. [mm]	nom. ["]		ceiling [N]	wall [N]	A	B	
CA 19 x 140 - 5 **	10-39832	140	5	50 x 4.0	2250	-	213.0	205.0	5
CA 19 x 219 - 8 **	10-39834	219	8	50 x 4.0	3500	-	282.0	274.0	5
CA 19 x 219 - 8 **	10-39834	219	8	50 x 4.0	3500	-	282.0	274.0	5

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

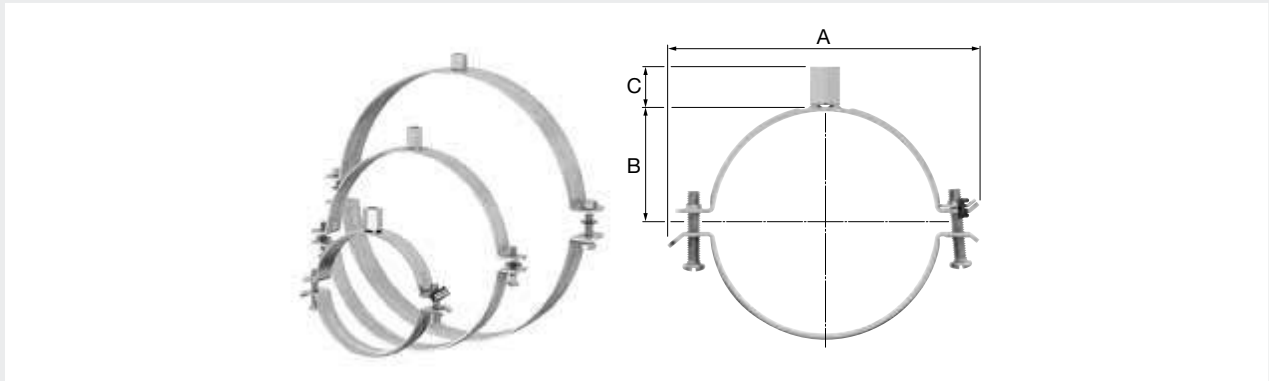
\*\* Closing system provided with 2 closing screws.


## 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	Ø clip int. [mm]	strip dimensions [mm]	max. working load [N]	dimensions			
					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



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

- **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 90



type	article number	Ø pipe		connection	max. working load [N]	strip dimensions [mm]	torx	
		nom. ["]	ext. [mm]					
<b>BM-HK M8 x 12</b>	10-36110	-	12	M8	1300	10 x 1.2	6	10
<b>BM-HK M8 x 15</b>	10-36112	-	15	M8	1300	10 x 1.2	6	10
<b>BM-HK M8 x 1/2 - 22</b>	10-36102	1/2	22	M8	1300	10 x 1.2	6	10
<b>BM-HK M8 x 3/4</b>	10-36103	3/4	26.9	M8	1300	10 x 1.2	6	10
<b>BM-HK M8 x 1</b>	10-36104	1	33.7	M8	1300	10 x 1.2	6	10
<b>BM-HK M8 x 28</b>	10-36118	-	28	M8	1300	10 x 1.2	6	10
<b>BM-HK M8 x 35</b>	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 90



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

\* KIWA certified certificate BRL-K-627/02 for use with potable water.

**kiwa**

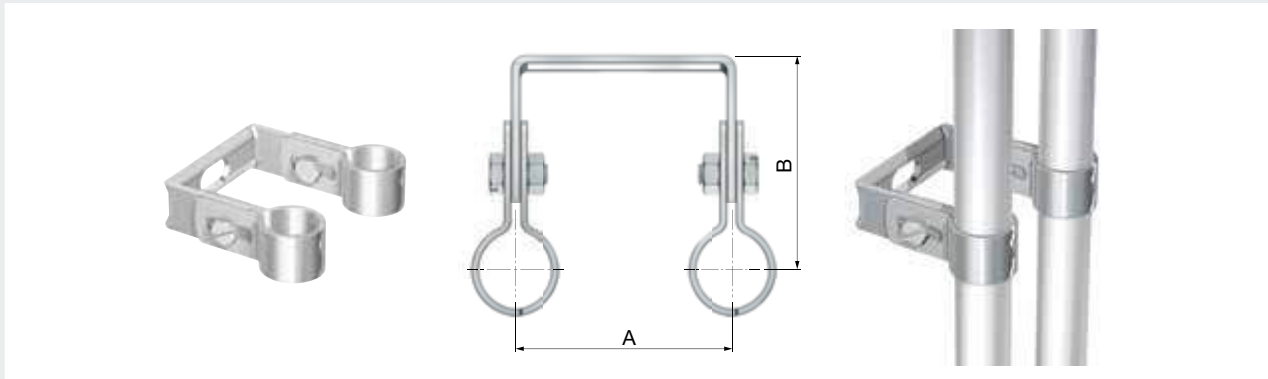
## wall mounting clips for double steel pipes


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

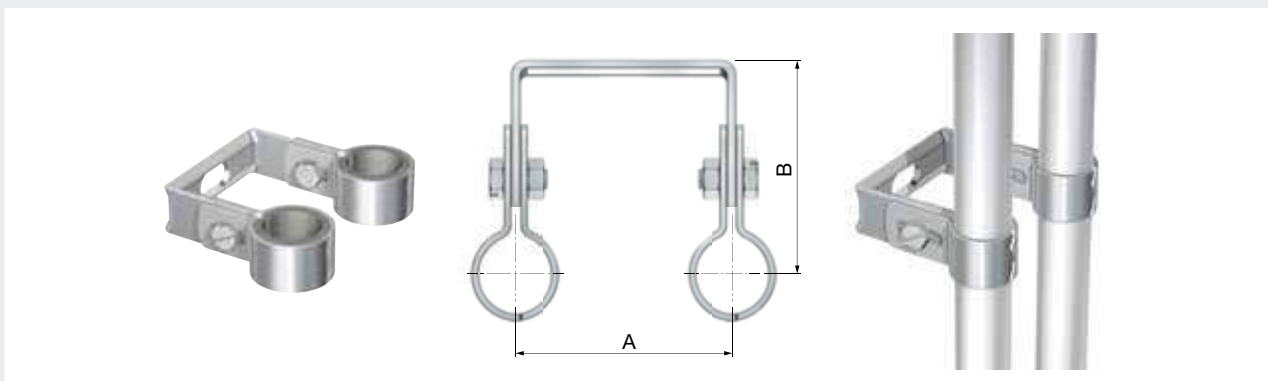
- Without neoprene lining.




type	article number	ext. [mm]	Ø pipe		dimensions [mm]		
			nom. ["]	thin-w. steel pipe outer Ø [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.



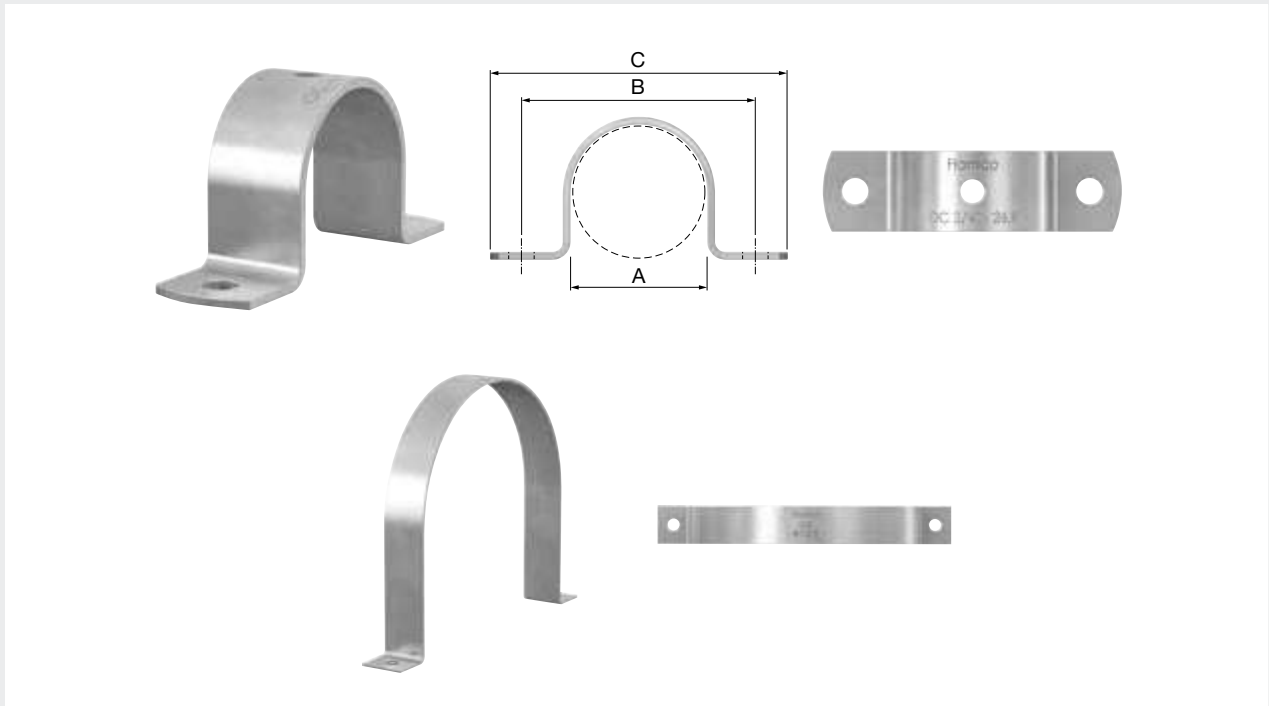
type	article number	ext. [mm]	Ø pipe		dimensions [mm]		
			nom. ["]	thin-w. steel pipe outer Ø [mm]	A	B	
DP 15	10-38030	16	-	15	60	54 - 69	10
DP ½	10-38031	21.3	½	22	60	57 - 68	10


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

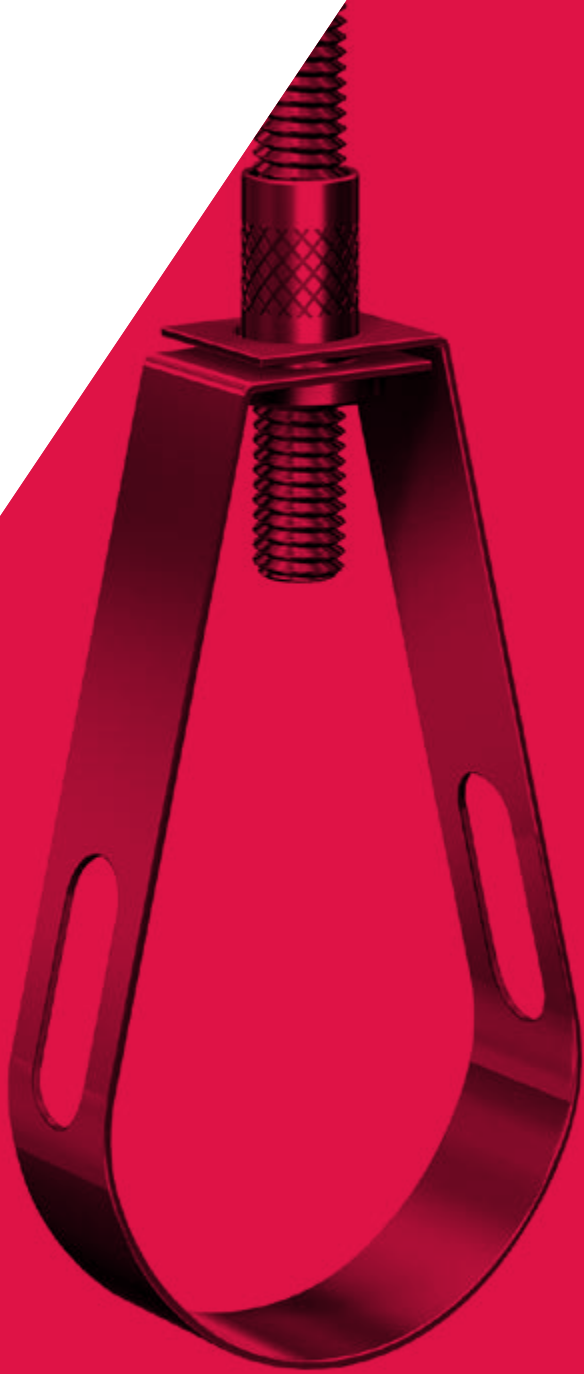
type	article number	Ø pipe		strip dimensions [mm]	suitable thread	dimensions [mm]			
		nom. [°]	ext. [mm]			A	B	C	
<b>OC 295</b>	10-51570	-	295	38 x 4	M16	295.0	345.0	386.0	50
<b>OC 323 - 12</b>	10-51571	12	323	38 x 4	M16	323.0	373.0	414.0	50
<b>OC 356 - 14</b>	10-51572	14	356	50 x 4	M20	356.0	406.0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





**FastFix**

# sprinkler hangers & clips



# specialist sprinkler system supports

**FastFix** clips have been used in sprinkler systems across the world for many years to the satisfaction of installers, customers and approval bodies. A fact you can rely on now and in the future.

In addition, BES and BCS clips are also UL approved. All these clips can be fitted easily, without tools and stand out due to their excellent finish.

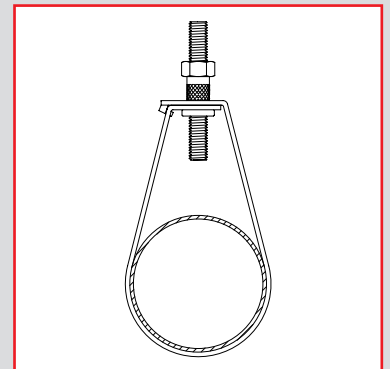
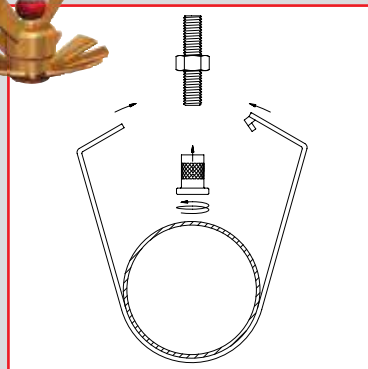
Locknut (VdS only).

The distance from the soffit can be adjusted by screwing the threaded rod in or out.

BES clip.



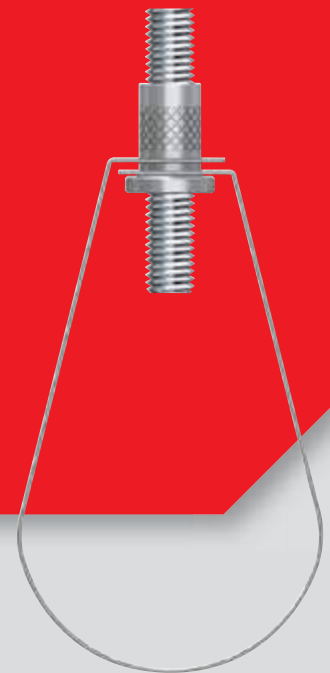
**FastFix** clips have been used in sprinkler systems across the world for many years to the satisfaction of installers, customers and approval bodies. A fact you can rely on now and in the future.





BCS Benefits

- The one piece clip guarantees a high permissible load.
- The height of the mechanism can be adjusted.
- FM/UL approved load bearing.



BCS


## 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 A [mm]	slotted hole	strip dimensions [mm]	
		ext. [mm]	nom. ["]		UL	FM					
<b>BCS M10 x ¾</b>	10-35770	26.9	¾"	M10	4	4	1512	35	-	20 x 1	100
<b>BCS M10 x 1</b>	10-35771	33.7	1"	M10	4	4	1824	35	-	20 x 1	100
<b>BCS M10 x 1¼</b>	10-35772	42.4	1¼"	M10	4	4	1913	35	-	20 x 1	100
<b>BCS M10 x 1½</b>	10-35773	48.3	1½"	M10	4	4	2313	35	-	20 x 1	100
<b>BCS M10 x 2</b>	10-35774	60.3	2"	M10	4	4	2815	35	-	20 x 1	100
<b>BCS M10 x 2½</b>	10-35775	76.1	2½"	M10	4	4	4181	40	27 x 12	25 x 1.25	100
<b>BCS M10 x 3</b>	10-35776	88.9	3"	M10	4	4	4715	40	27 x 12	25 x 1.25	50
<b>BCS M10 x 3½</b>	10-35777	101.6	3½"	M10	4	4	5583	49	27 x 12	25 x 1.5	50
<b>BCS M10 x 4</b>	10-35778	114.3	4"	M10	4	4	6561	60	27 x 12	25 x 1.5	50
<b>BCS M12 x 5</b>	10-35779	139.7	5"	M12	4	4	8896	73	60 x 15	30 x 2	50
<b>BCS M12 x 6</b>	10-35780	168.9	6"	M12	4	4	11632	83	60 x 15	30 x 2	50
<b>BCS M12 x 8</b>	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.

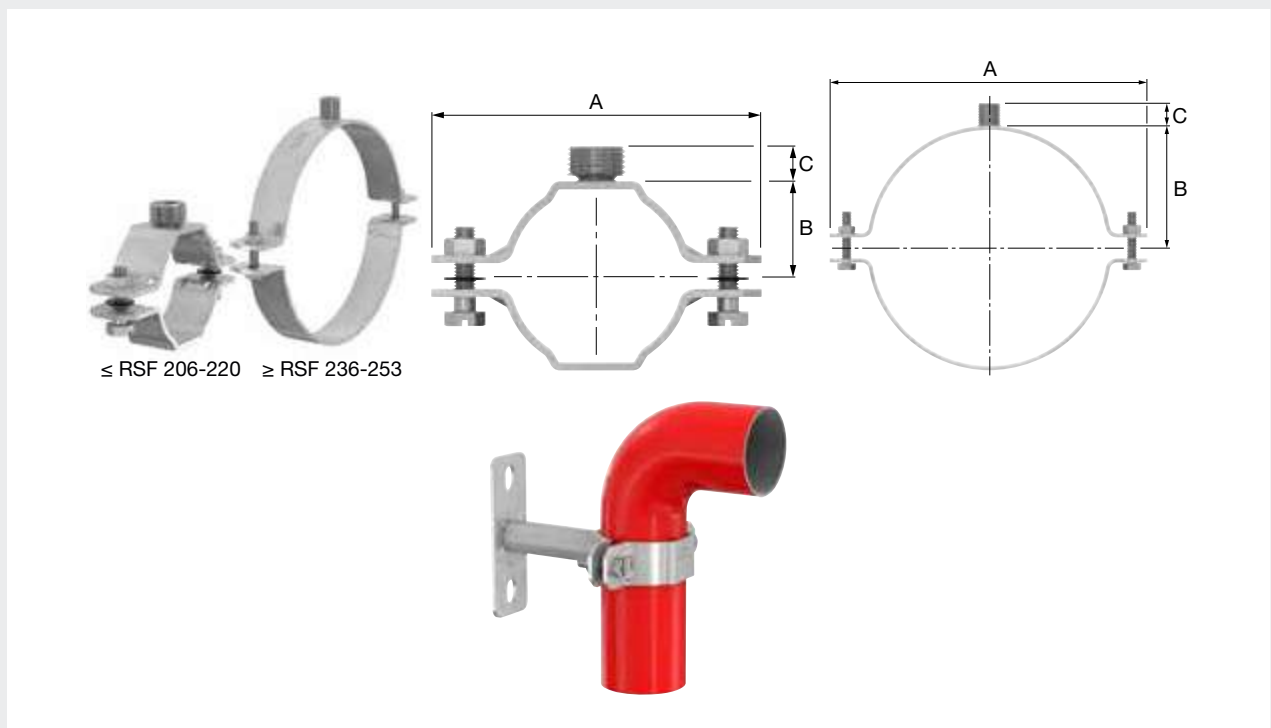
- Complete and comprehensive range.
- A special combinut with outer and inner thread makes a broad range of applications possible in combination with threaded rods and pipes.
- Electrolytically zinc plated.
- Execution:


### 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	
<b>RSF 1/2 M/M10 x 13,5 - 18</b>	10-54201	13.5 - 18.9	1/4 + 3/8	30 x 3.0	G1/2" M/M10	4000	74	12.0	12	50
<b>RSF 1/2 M/M10 x 19 - 23</b>	10-54202	19 - 23.9	1/2	30 x 3.0	G1/2" M/M10	4000	79	14.5	12	50
<b>RSF 1/2 M/M10 x 24 - 28</b>	10-54203	24 - 28.9	3/4	30 x 3.0	G1/2" M/M10	4000	84	17.0	12	50
<b>RSF 1/2 M/M10 x 29 - 33</b>	10-54204	29 - 33.9	1	30 x 3.0	G1/2" M/M10	4000	89	18.5	12	50
<b>RSF 1/2 M/M10 x 34 - 39</b>	10-54205	34 - 39.9	-	30 x 3.0	G1/2" M/M10	4000	95	22.5	12	50
<b>RSF 1/2 M/M10 x 40 - 44</b>	10-54206	40 - 44.9	1 1/4	30 x 3.0	G1/2" M/M10	4000	100	25.0	12	50
<b>RSF 1/2 M/M10 x 45 - 49</b>	10-54207	45 - 49.9	1 1/2	30 x 3.0	G1/2" M/M10	4000	105	27.5	12	50
<b>RSF 1/2 M/M10 x 50 - 55</b>	10-54208	50 - 55.9	-	30 x 3.0	G1/2" M/M10	4000	111	30.5	12	25
<b>RSF 1/2 M/M10 x 56 - 61</b>	10-54209	56 - 61.9	2	30 x 3.0	G1/2" M/M10	4000	117	33.5	12	25
<b>RSF 1/2 M/M10 x 62 - 68</b>	10-54210	62 - 68.9	-	30 x 3.0	G1/2" M/M10	4000	124	37.0	12	25
<b>RSF 1/2 M/M10 x 69 - 76</b>	10-54211	69 - 76.9	2 1/2	30 x 3.0	G1/2" M/M10	4000	132	41.0	12	25
<b>RSF 1/2 M/M10 x 77 - 84</b>	10-54212	77 - 84.9	-	30 x 3.0	G1/2" M/M10	4000	140	45.0	12	25
<b>RSF 1/2 M/M10 x 85 - 91</b>	10-54213	85 - 91.9	3	40 x 4.0	G1/2" M/M10	5000	159	49.5	12	25
<b>RSF 1/2 M/M10 x 92 - 98</b>	10-54214	92 - 98.9	-	40 x 4.0	G1/2" M/M10	5000	166	53.0	12	25
<b>RSF 1/2 M/M10 x 99 - 105</b>	10-54215	99 - 105.9	-	40 x 4.0	G1/2" 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	
<b>RSF ½ M/M10 x 106 - 114</b>	10-54216	106 - 114.9	4	40 x 4.0	G½" M/M10	5000	182	61.0	12	20
<b>RSF ½ M/M12 x 115 - 122</b>	10-54217	115 - 122.9	-	40 x 4.0	G½" M/M12	5000	190	65.0	12	20
<b>RSF ½ M/M12 x 123 - 130</b>	10-54218	123 - 130.9	-	40 x 4.0	G½" M/M12	5000	198	69.0	12	20
<b>RSF ½ M/M12 x 131 - 139</b>	10-54219	131 - 139.9	5	40 x 4.0	G½" M/M12	5000	207	73.5	12	20
<b>RSF ½ M/M12 x 140 - 148</b>	10-54220	140 - 148.9	-	40 x 4.0	G½" M/M12	5000	216	78.0	12	20
<b>RSF ½ M/M12 x 149 - 157</b>	10-54221	149 - 157.9	-	40 x 4.0	G½" M/M12	5000	225	82.5	12	20
<b>RSF ½ M/M12 x 158 - 166</b>	10-54222	158 - 166.9	6	40 x 4.0	G½" M/M12	5000	234	87.0	12	20
<b>RSF ½ M/M12 x 167 - 179</b>	10-54223	167 - 179.9	-	40 x 4.0	G½" M/M12	5000	247	93.5	12	20
<b>RSF ¾ M/M16 x 180 - 192</b>	10-54224	180 - 192.9	-	40 x 4.0	G¾" M/M16	5000	260	100.0	16	10
<b>RSF ¾ M/M16 x 193 - 205</b>	10-54225	193 - 205.9	-	40 x 4.0	G¾" M/M16	5000	273	106.5	16	10
<b>RSF ¾ M/M16 x 206 - 220</b>	10-54226	206 - 220.9	8	40 x 4.0	G¾" M/M16	5000	288	114.0	16	10
<b>RSF ¾ M/M16 x 221 - 235</b>	10-54246	221.0 - 235.0	-	40 x 4.0	G¾" M/M16	5000	303	121.5	16	10
<b>RSF ¾ M/M12/16 x 236 - 253</b>	10-54227	236 - 253.9	-	50 x 5.0	G¾" M/M12/16	9000	330	133.0	26	1
<b>RSF ¾ M/M12/16 x 254 - 273</b>	10-54228	254 - 273.9	10	50 x 5.0	G¾" M/M12/16	9000	348	142.0	26	1
<b>RSF ¾ M/M12/16 x 274 - 286</b>	10-54229	274 - 286.9	-	50 x 5.0	G¾" M/M12/16	9000	361	148.0	26	1
<b>RSF ¾ M/M12/16 x 287 - 305</b>	10-54230	287 - 305.9	-	50 x 5.0	G¾" M/M12/16	9000	380	158.0	26	1
<b>RSF ¾ M/M12/16 x 306 - 324</b>	10-54231	306 - 324.9	12	50 x 5.0	G¾" M/M12/16	9000	399	167.0	26	1
<b>RSF ¾ M/M12/16 x 325 - 337</b>	10-54232	325 - 337.9	-	50 x 5.0	G¾" M/M12/16	9000	412	174.0	26	1
<b>RSF ¾ M/M12/16 x 338 - 356</b>	10-54233	338 - 356.9	14	50 x 5.0	G¾" M/M12/16	9000	431	183.0	26	1
<b>RSF ¾ M/M12/16 x 357 - 369</b>	10-54234	357 - 369.9	-	50 x 5.0	G¾" M/M12/16	9000	444	190.0	26	1
<b>RSF ¾ M/M12/16 x 370 - 387</b>	10-54235	370 - 387.9	-	50 x 5.0	G¾" M/M12/16	9000	462	199.0	26	1
<b>RSF ¾ M/M12/16 x 388 - 406</b>	10-54236	388 - 406.9	16	50 x 5.0	G¾" M/M12/16	9000	481	208.0	26	1





FastFix

mounting  
rails &  
accessories



## FastFix rail

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. 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 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.



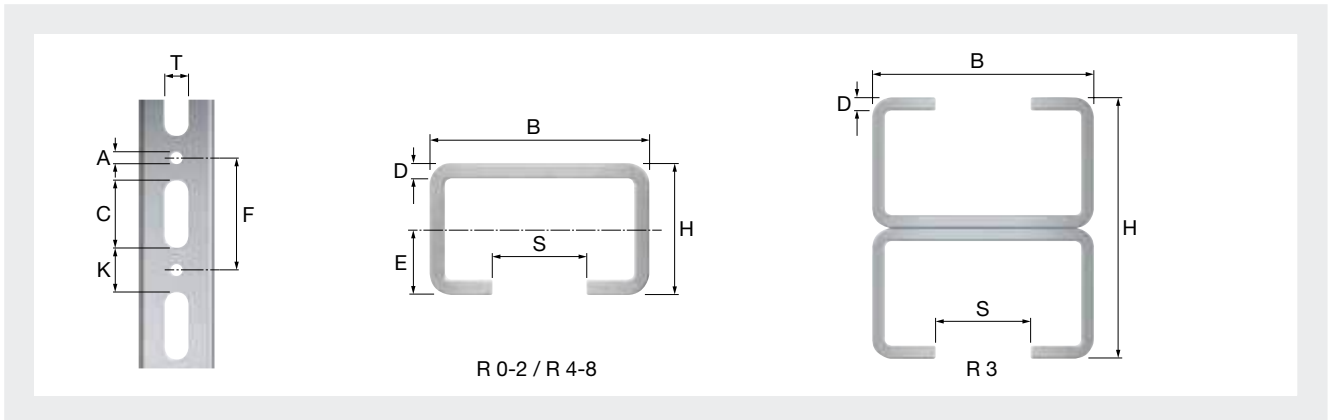
type	article number (priced per metre)	stock length [m]	Ø [cm <sup>2</sup> ]	point load [N]		Mb [Ncm] *	Ix [cm <sup>4</sup> ]	Wx [cm <sup>3</sup> ]	Mass [kg/m]	
				max. working load	rupture load					
<b>R0 Sendzimir zinc-plated</b>	10-50020	2	0.86	2000	6000	6850	0.388	0.428	0.66	520 m
<b>R1 Sendzimir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



type	dimensions [mm]									
	H	B	A	C	D	E	F	K	S	T
<b>R0</b>	18	28.0	5,3	20	1.25	9.0	50	30	14.0	8.5
<b>R1</b>	15	30.5	9	30	2.00	8.0	50	20	14.5	10.5
<b>R2</b>	20	34.0	9	30	2.40	10.5	50	20	14.5	10.5
<b>R3</b>	40	34.0	-	30	2.40	-	50	20	14.5	10.5
<b>R4</b>	46	35.0	9	30	2.50	23.2	50	20	14.5	13.5
<b>R6</b>	60	40.0	9	30	3.00	30.2	50	20	14.5	13.5
<b>R7</b>	41	41.0	9	30	2.00	20.7	50	20	14.5	13.5
<b>R8</b>	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	FastFix Rail	dimensions [mm]				max. load at end point (L) [N]	
			A	L	base plate [mm]	slotted hole		
<b>R1 x 150</b>	10-71665	R1	80	150	115 x 40	11 x 22	400	1
<b>R1 x 200</b>	10-71670	R1	80	200	115 x 40	11 x 22	300	1
<b>R1 x 300</b>	10-71666	R1	80	300	115 x 40	11 x 22	200	1
<b>R1 x 400</b>	10-71667	R1	80	400	115 x 40	11 x 22	150	1
<b>R2 x 200</b>	10-71675	R2	80	200	115 x 40	11 x 22	500	1
<b>R4 x 150</b>	10-71680	R4	90	150	130 x 50	13 x 26	3000	1
<b>R4 x 250</b>	10-71682	R4	90	250	130 x 50	13 x 26	1800	1
<b>R4 x 350</b>	10-71684	R4	90	350	130 x 50	13 x 26	1250	1
<b>R6 x 480</b>	10-71690	R6	134	480	200 x 100	13 x 26	2000	1
<b>R6 x 750</b>	10-71692	R6	134	750	200 x 100	13 x 26	1250	1
<b>R7 x 200</b>	10-71694	R7	90	200	130 x 50	13 x 26	2000	1
<b>R7 x 300</b>	10-71695	R7	90	300	130 x 50	13 x 26	1250	1
<b>R7 x 400</b>	10-71696	R7	90	400	130 x 50	13 x 26	1000	1
<b>R7 x 500</b>	10-71697	R7	90	500	130 x 50	13 x 26	750	1
<b>R7 x 600</b>	10-71698	R7	90	600	130 x 50	13 x 26	500	1
<b>R7 x 700*</b>	10-71699	R7	440	700	490 x 44	13 x 30	400	1

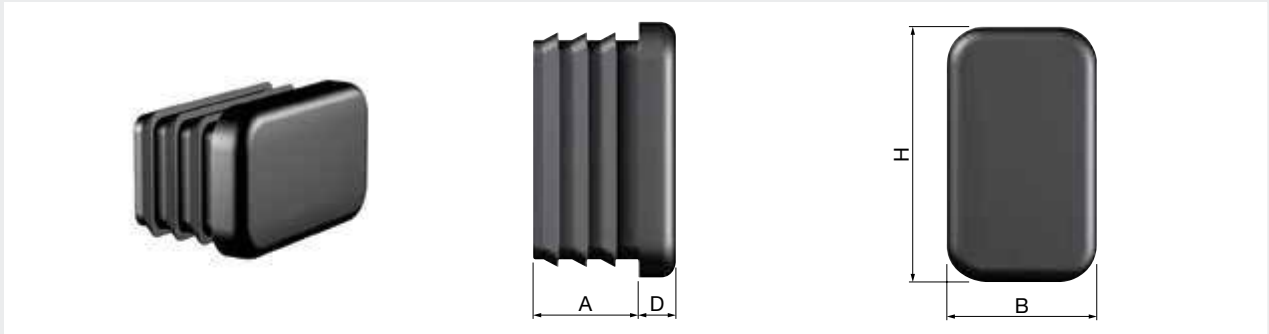
\* With shore.


## rail end caps

### RD rail end cap

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

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



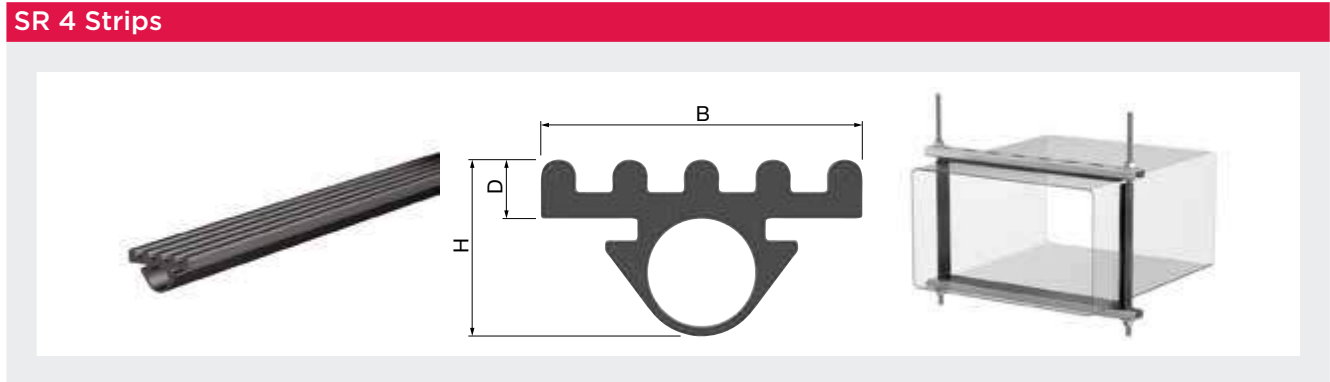
type	article number	suitable for rail	dimensions [mm]				
			A	B	D	H	
<b>RD 1</b>	10-50501	R1	12	15	5	30	100
<b>RD 2</b>	10-50502	R2 / R3	12	20	5	35	100
<b>RD 4</b>	10-50504	R4	14	35	5	46	100
<b>RD 6</b>	10-50506	R6	14	41	5	60	100
<b>RD 7</b>	10-50507	R7	14	40	5	40	100
<b>RD 8</b>	10-50508	R8	14	20	5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


## noise-suppression strips

Suitable for 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/cm<sup>2</sup>.
- Impact resilience: 35%.

### SR 4 Strips



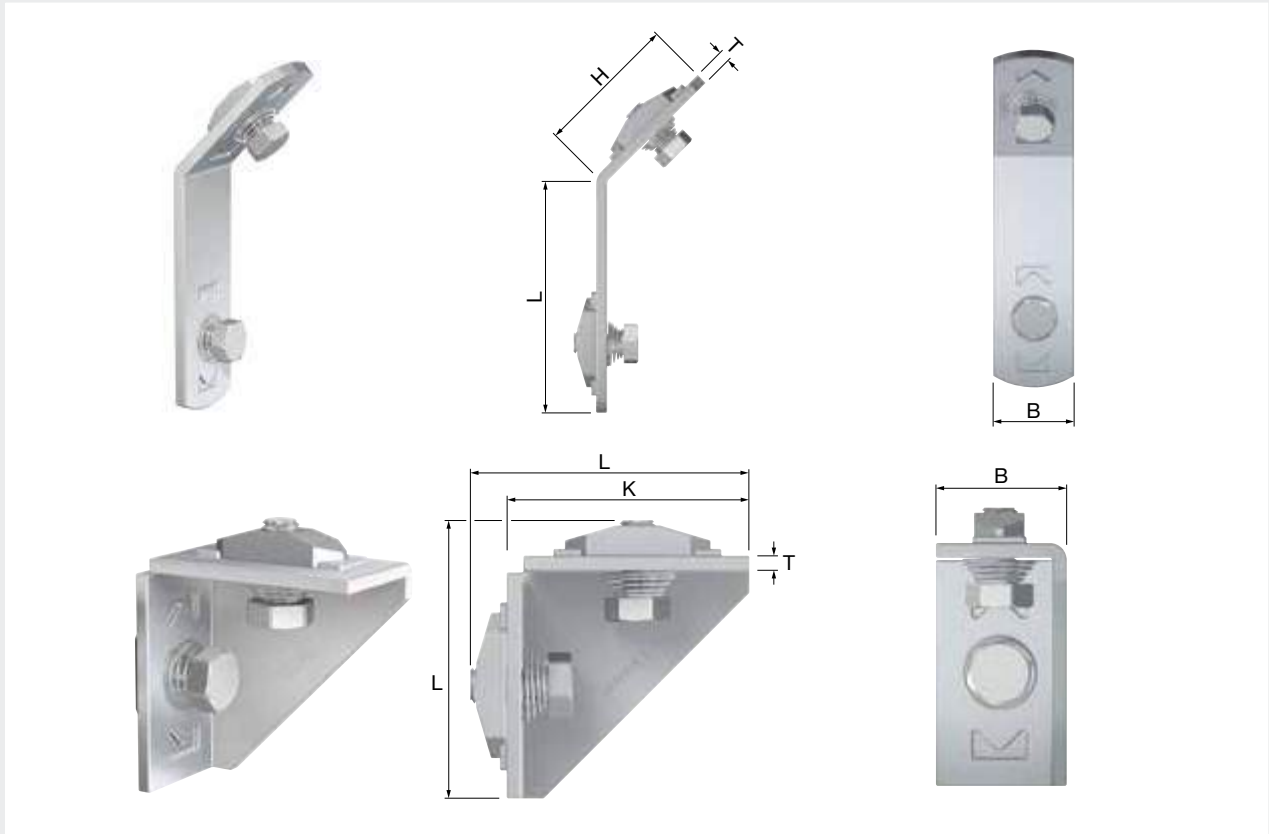
type	article number	dimensions [mm]			suitable for	
		B	H	D		
SR 4	10-71114	30	16.5	7	threaded rod M8 / Rail R1 - R8	20 m


## mounting angles

### ClickConnection RH

For FastFix rail R0 - 8.

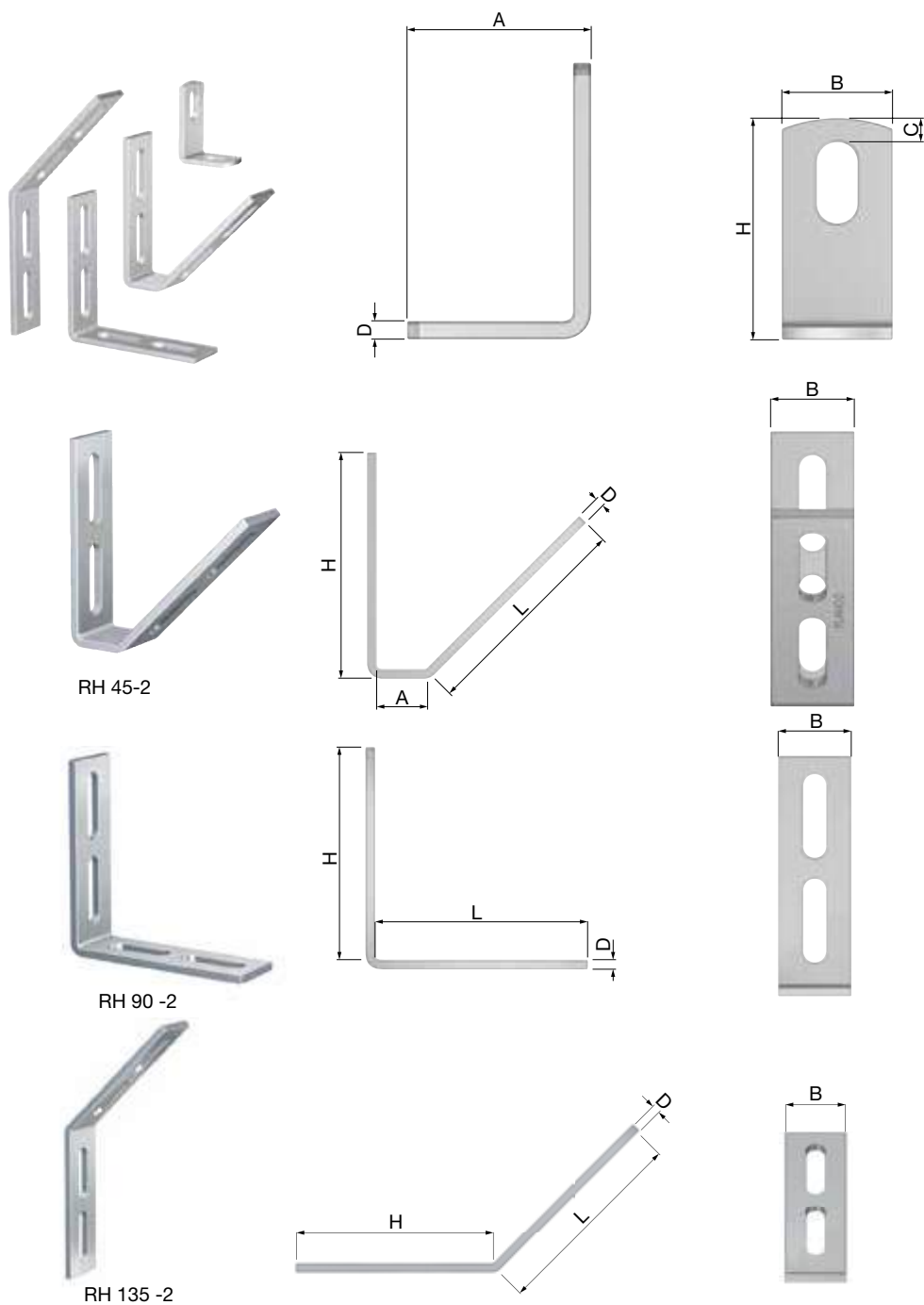
- Easy mounting by pushing and turning the unit in the rail for 45° clockwise.
- Reduced installation time.
- No loose parts like studs, washers and nuts.
- Electrolytically zinc plated.
- Maximum torque: 35 Nm
- Safety margin for minimum breaking load (V) = 3.




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.



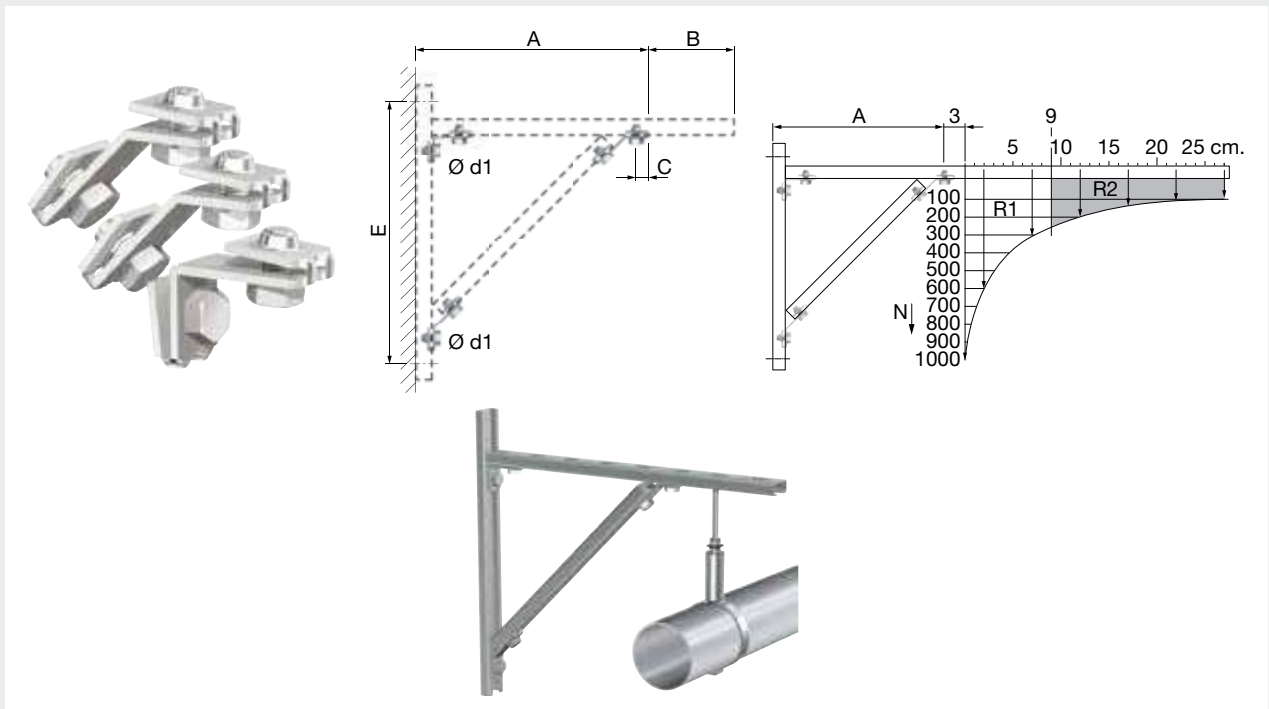
type	article number	suitable for rail	dimensions [mm]							slotted hole	
			A	B	C	D	H	L			
<b>RH 90 - 1</b>	10-71606	R0 - R8	40	30	6.5	4	60	-	11 x 22	50	
<b>RH 45 - 2</b>	10-71620	R0 - R8	25	35	-	5	110	110	11 x 40	25	
<b>RH 90 - 2</b>	10-71621	R0 - R8	-	35	-	5	110	110	11 x 40	25	
<b>RH 135 - 2</b>	10-71622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

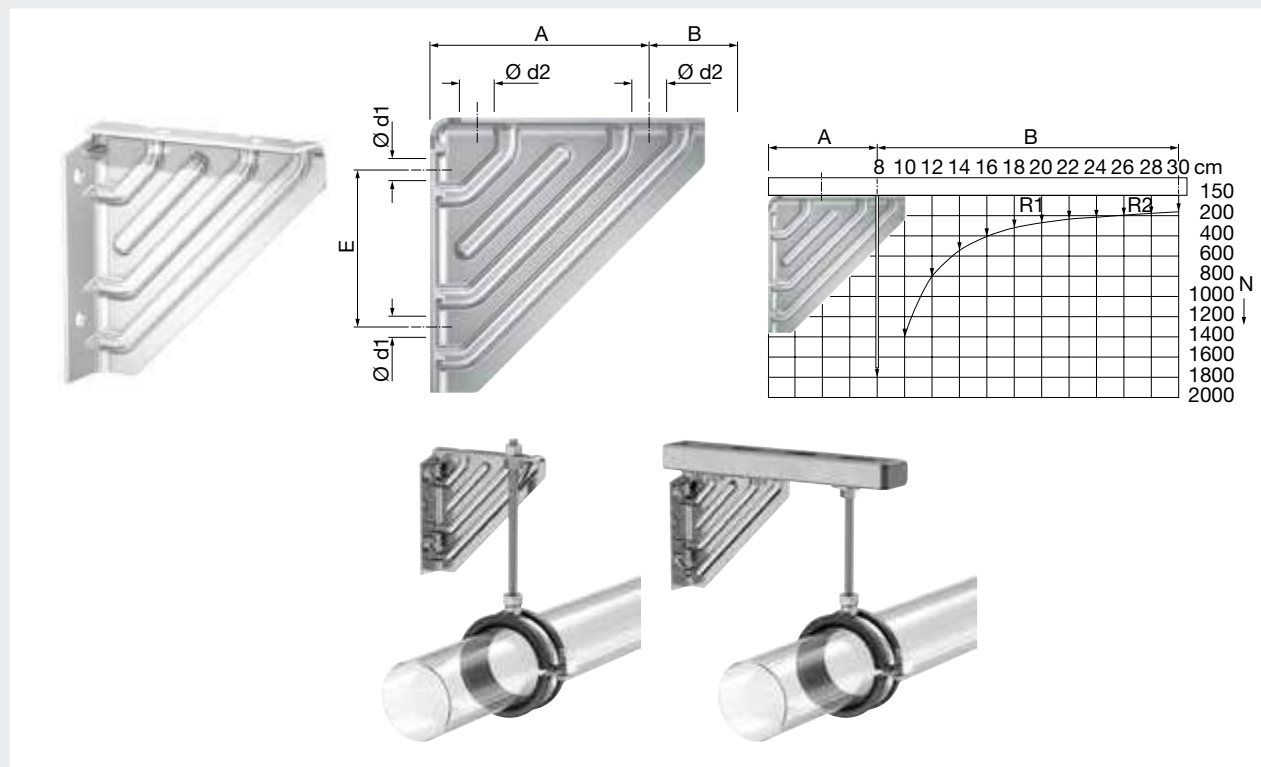
### HS 1 - Technical specifications


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 FastFix rail R0, R1 or R2, or with D6 or D8 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	D6 - D8 - 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

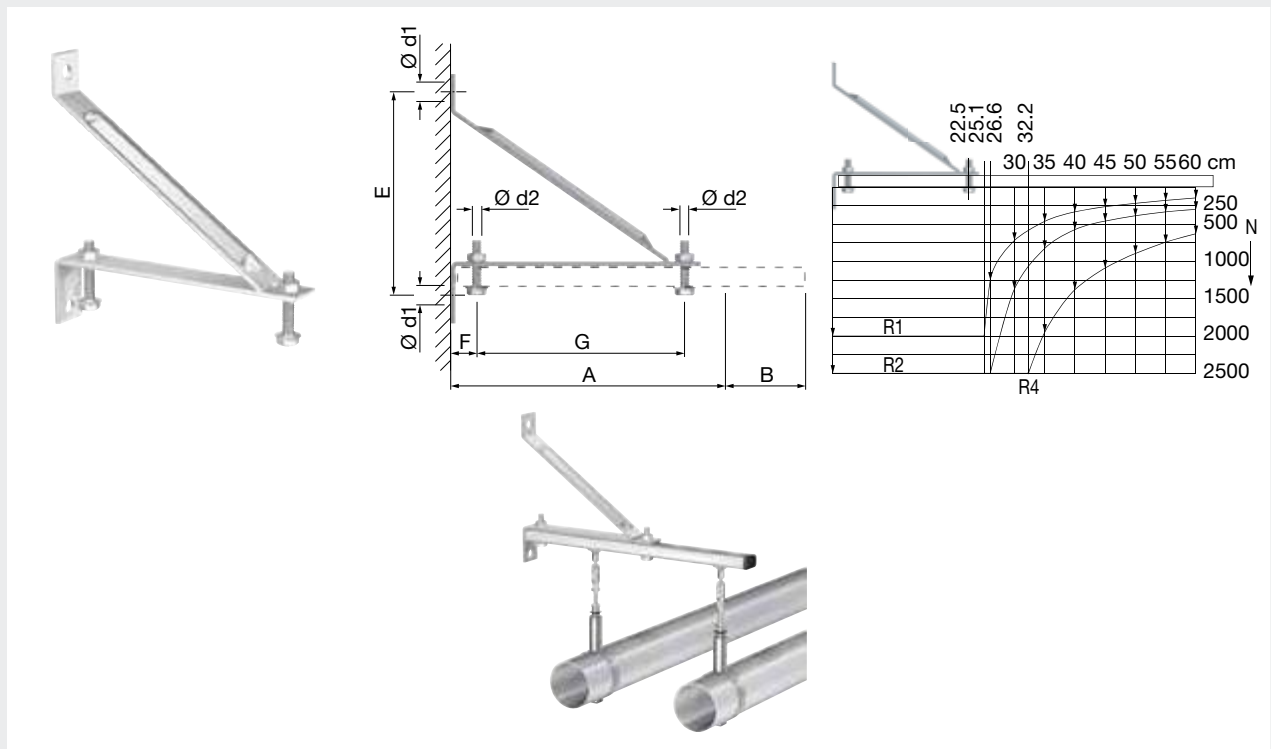
### HS 3 Angle Support


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 FastFix Rail, making it possible to mount the pipes efficiently.

The angle support can be supplied in two versions:

- For FastFix Rail R1 and R2: angle support, two M10 x 35 mm bolts and two washers.
- For 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 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

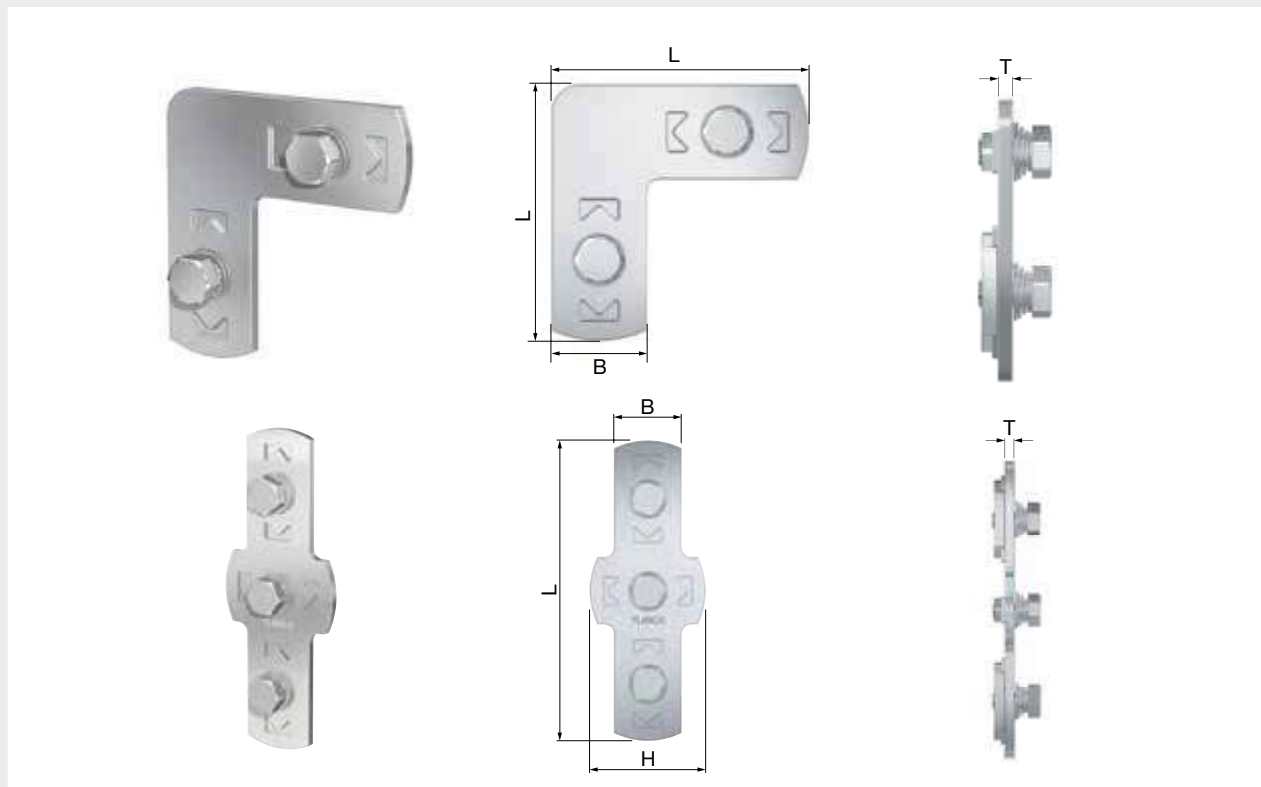
type	suitable for rail	dimensions [mm]							max. working load [N]	
		A	B max.	E	F	G	Ø d1	Ø d2	A	A+B max.
HS 3	R1	260	340	210	25	200	13	11	2000	194
HS 3	R2	260	340	210	25	200	13	11	2500	260
HS 3	R4	260	340	210	25	200	13	11	2500	625


## mounting plates and corners

### ClickConnection L/X

For FastFix rail RO - 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.

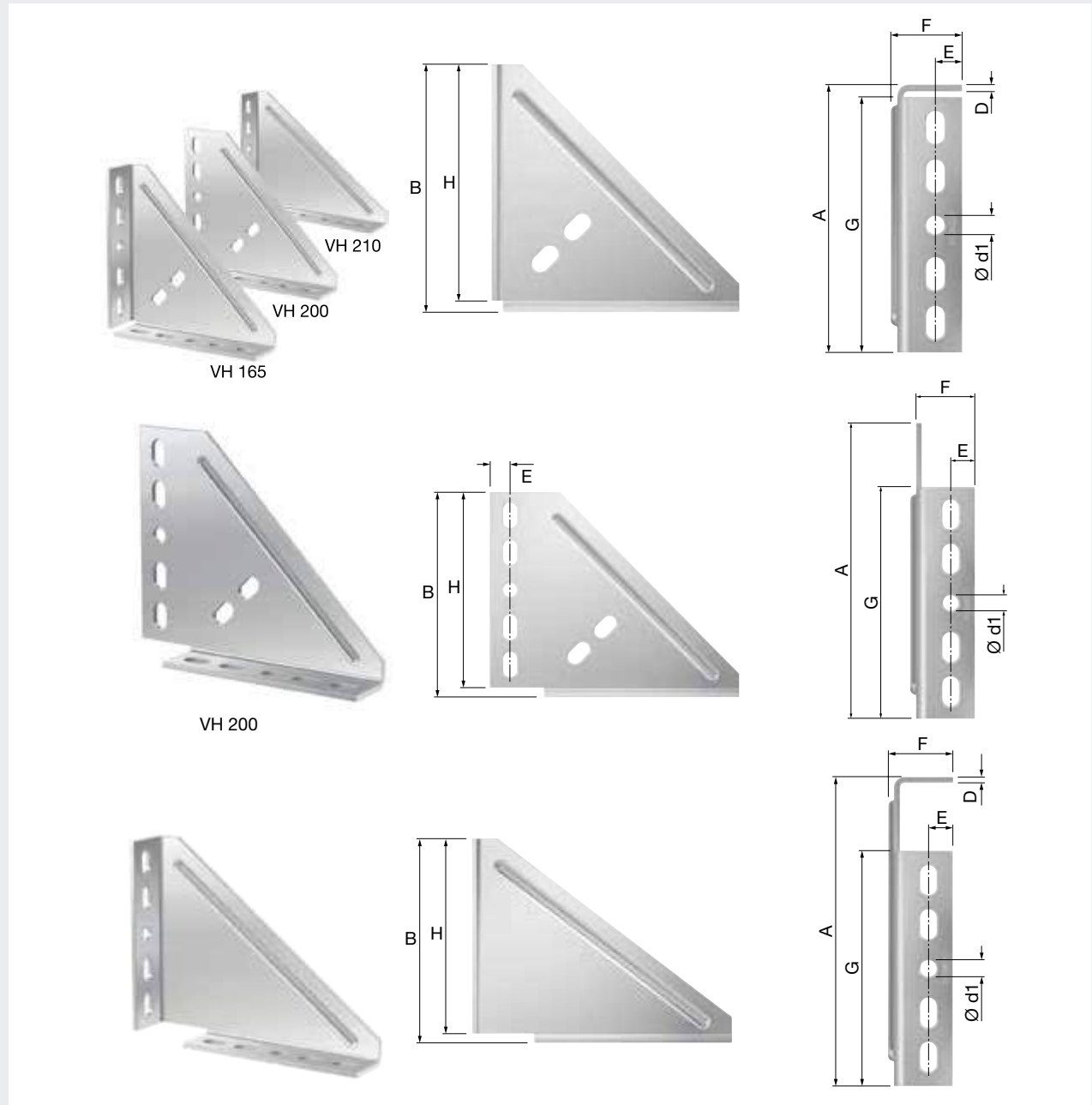



type	article number	max. working load [N]		dimensions [mm]				
		tensile	shear	L	B	T	H	
ClickConnection L	10-71802	3000	1000	95	35	5	-	10
ClickConnection X	10-71803	3000	1000	155	35	5	60	10

## 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.

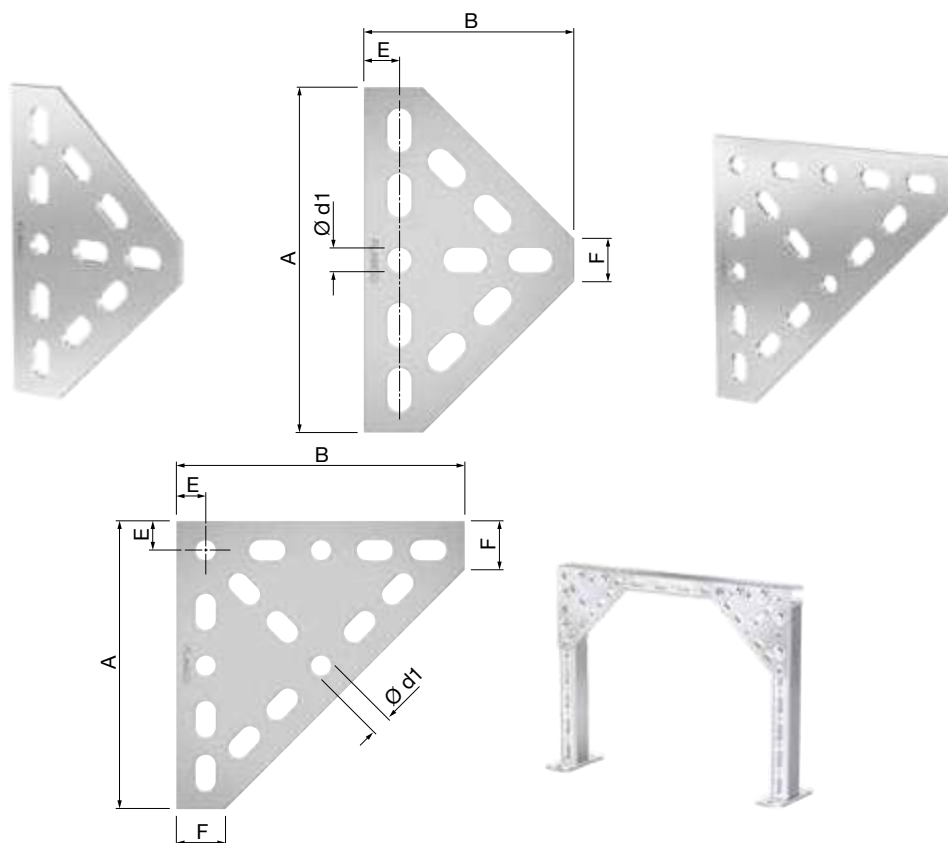



type	article number	dimensions [mm]								slotted hole [mm]	
		A	B	D	E	F	G	H	Ø d1		
VH 165 x 165 x 4	10-71612	165	165	4	16.5	40	157.5	157.5	11	11 x 20	10
VH 200 x 165 x 4	10-71613	200	165	4	16.5	40	157.5	157.5	11	11 x 20	10
VH 210 x 165 x 4	10-71614	210	165	4	16.5	40	160.5	157.5	11	11 x 20	10

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


## rail support saddles

### ClickConnection RZ-V

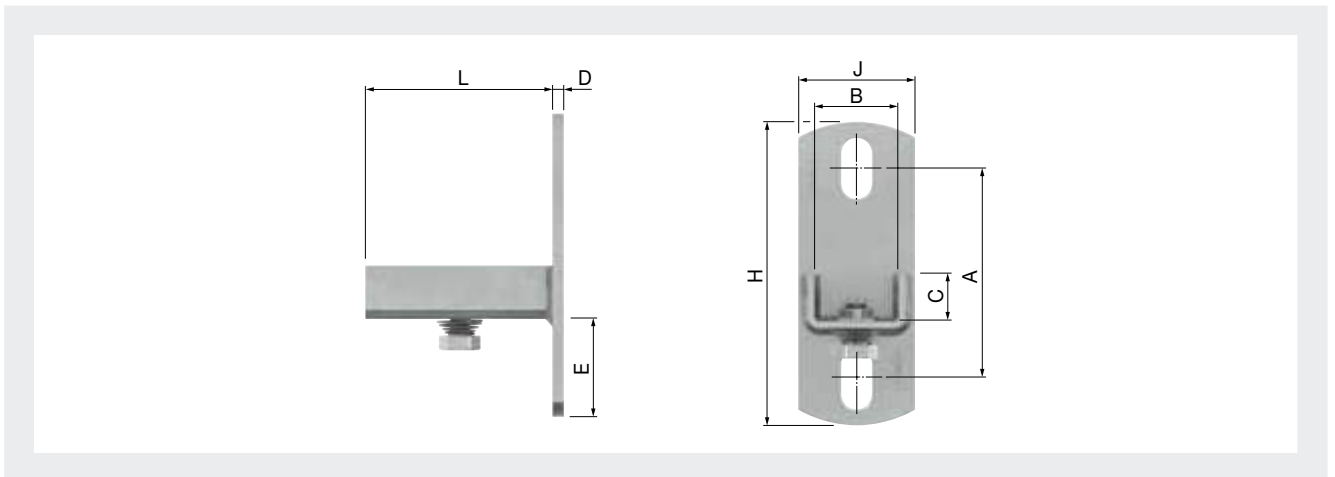
For FastFix rail R0 - 4.

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



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

### ClickConnection RZ-V - Dimensions




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

### ClickConnection RZ-H

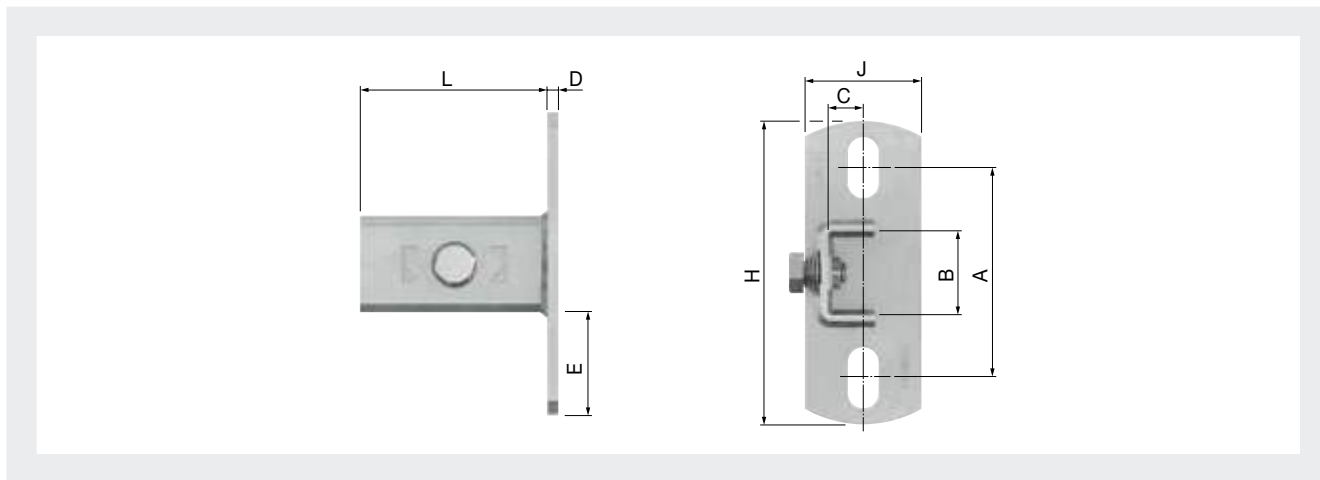
For FastFix rail R0 - 4.

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



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

### ClickConnection RZ-H - Dimensions

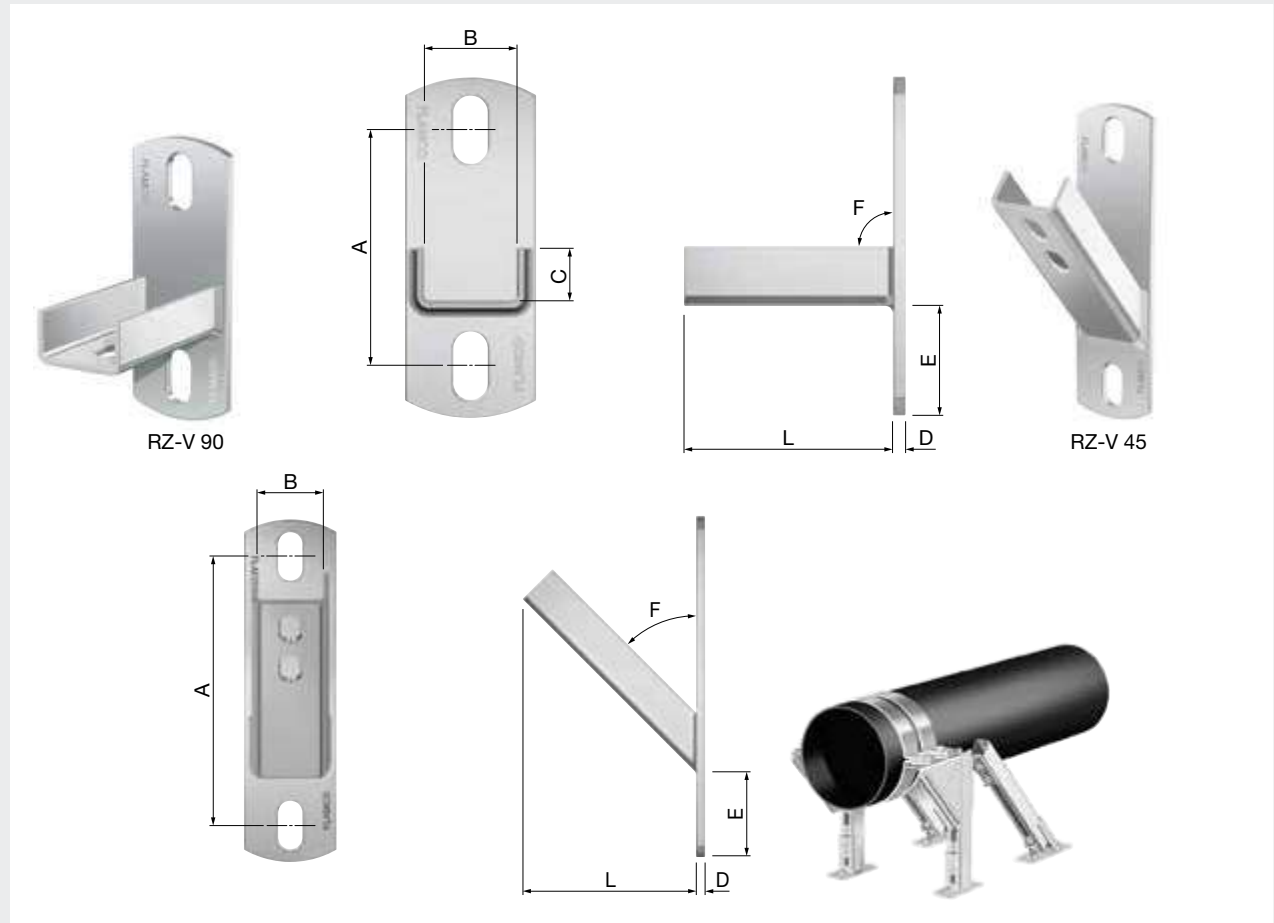


type	dimensions [mm]								
	A	B	C	D	E	H	J	L	slotted hole
ClickConnection RZ-H90	90	35,5	15	5	44,25	130	50	80	13 x 26

## RZ-V Rail Support Saddles

For mounting 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.

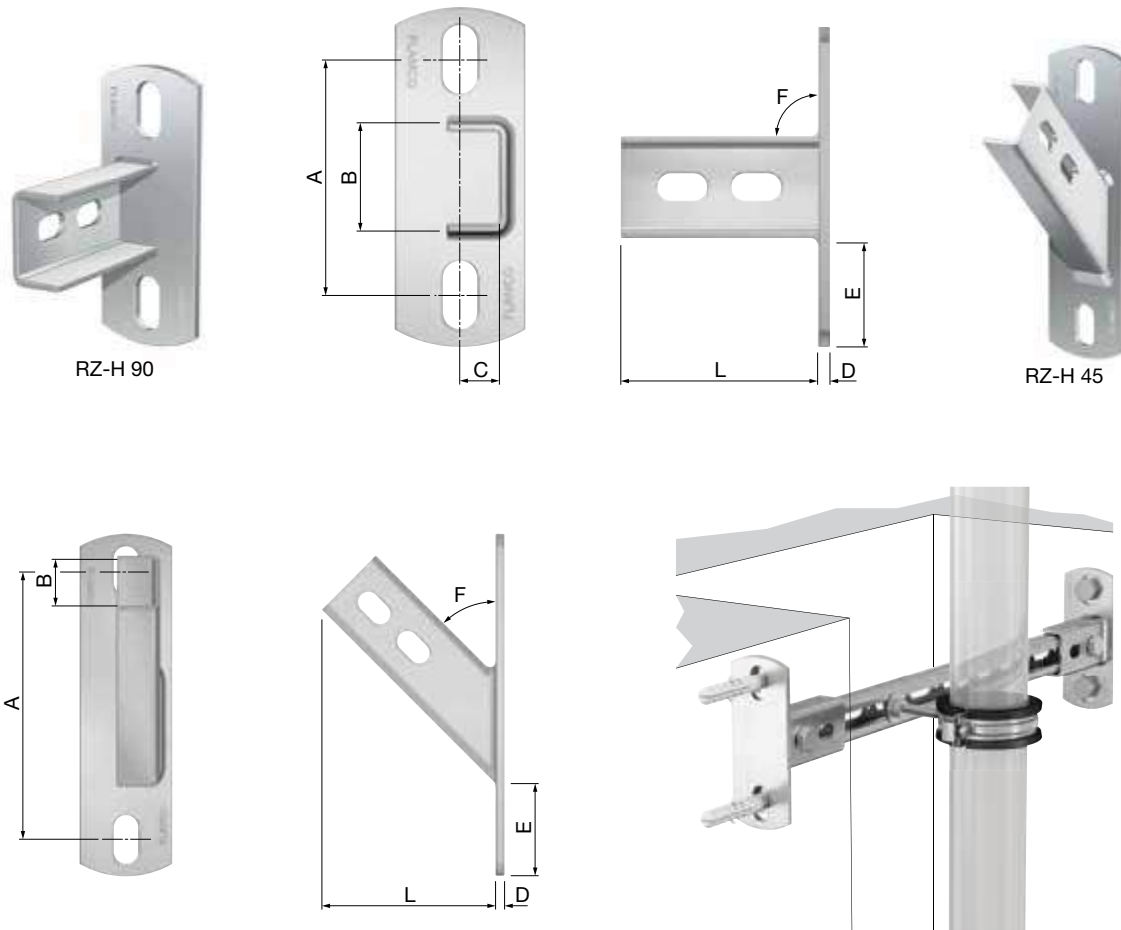



type	article number	suitable for rail	dimensions [mm]							slotted hole			📦
			A	B	C	D	E	F [°]	L	base plate	base plate	saddle	
<b>RZ-V 90</b>	10-71631	R0 - R4	90	35.5	20	5	45	90	80	130 x 50	13 x 26	11 x 20	10
<b>RZ-V 45</b>	10-71636	R0 - R4	145	35.5	20	5	45	45	94	185 x 50	13 x 26	11 x 20	10

## RZ-H Rail Support Saddles

For mounting FastFix rails R0 - R4 on the wall, ceiling or floor.

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



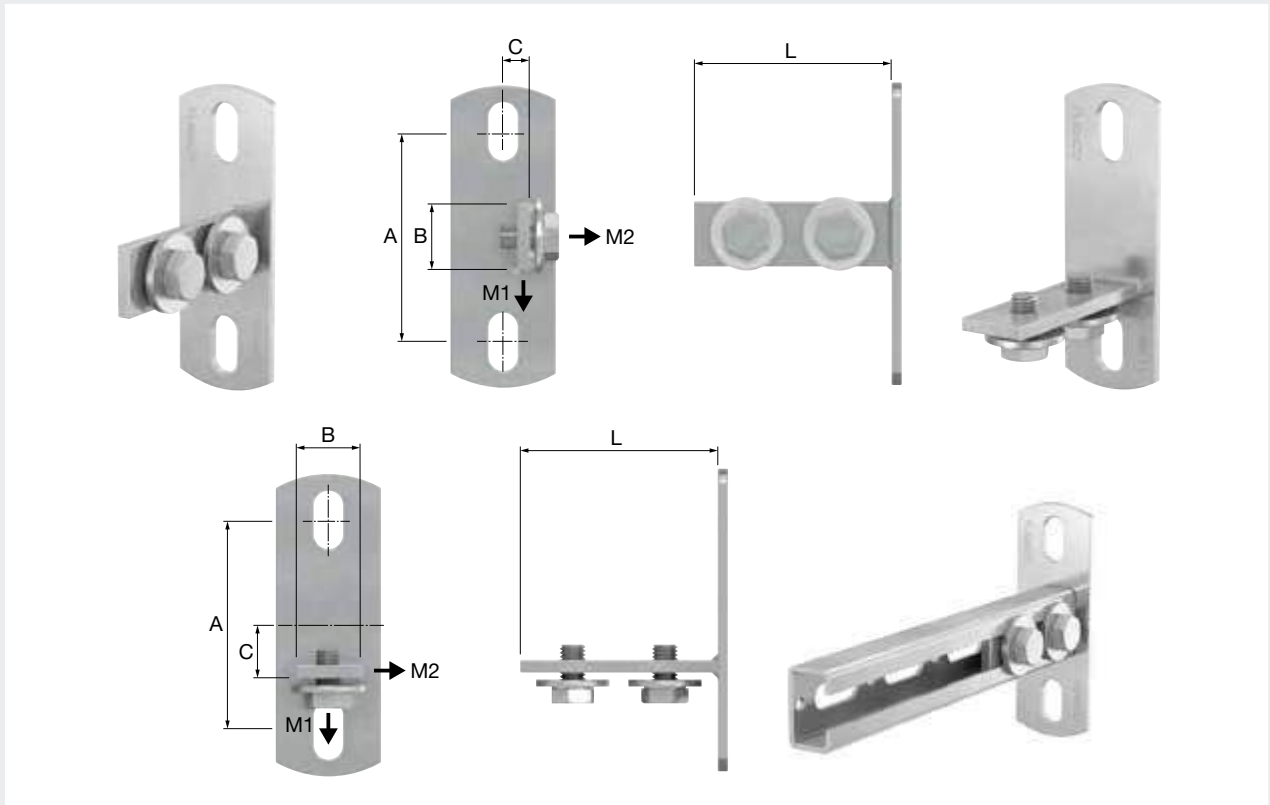
type	article number	suitable for rail	dimensions [mm]							slotted hole [mm]			
			A	B	C	D	E	F [°]	L	base plate	base plate	saddle	
<b>RZ-H 90</b>	10-71630	R0 - R4	90	35.5	15	5	45	90	80	130 x 50	13 x 26	11 x 20	10


## rail support flanges

### KF Rail Support Flanges

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 - 8	10
KF-V	10-71641	R0 - R4, R7, R8	10

### KF - Technical specifications

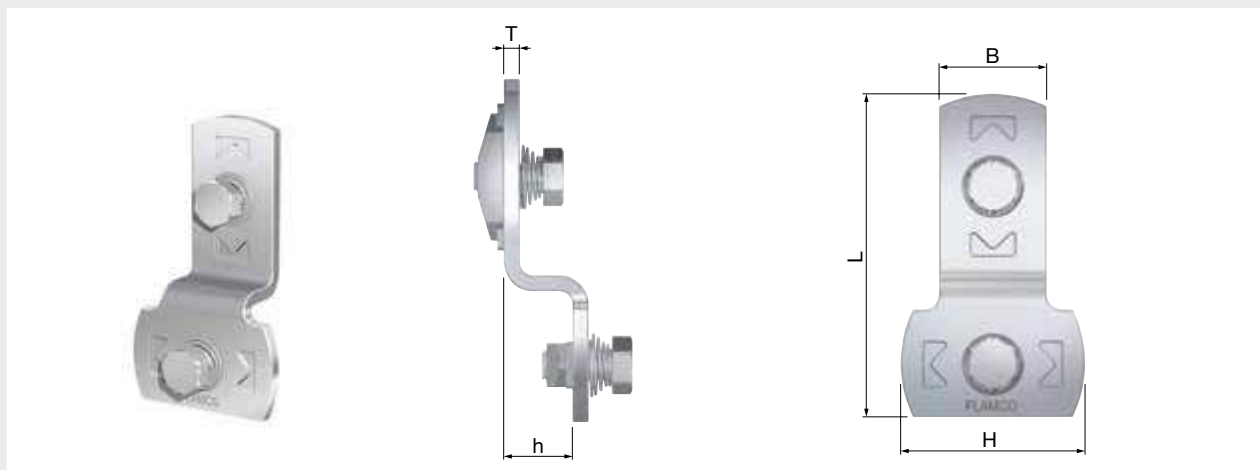
type	dimensions [mm]						max. working load			bolts
	A	B	C	L	base plate [mm]	slotted hole [mm]	bending moment (M1) [Ncm]	bending moment (M2) [Ncm]	shear [N]	
KF-H	80	25	10	75	115 x 40	11 x 22	3750	1750	1300	M10
KF-V	80	25	20	75	115 x 40	11 x 22	1750	3750	1300	M10


## rail clamp squares

### ClickConnection PS31

For 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.



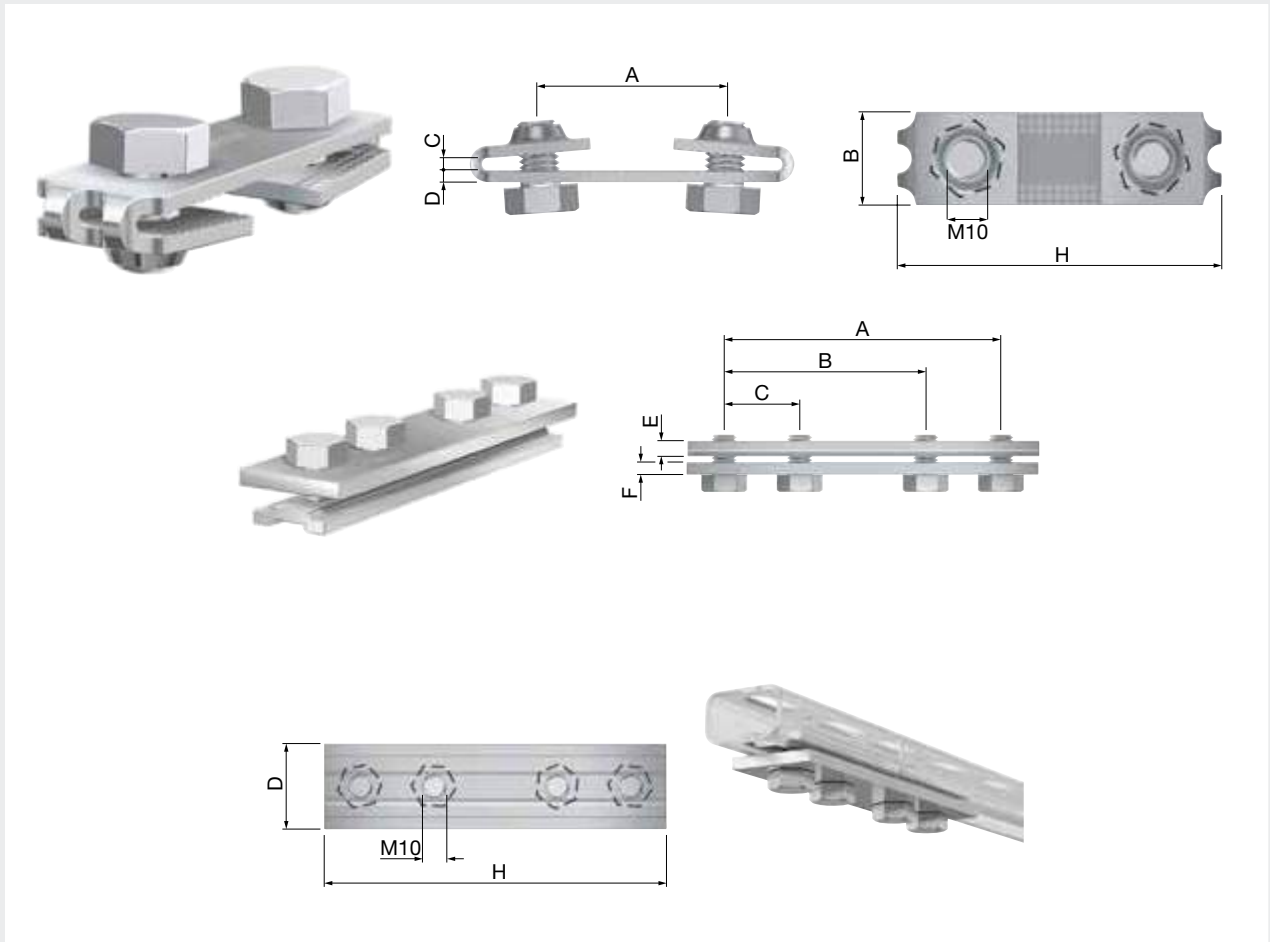
type	article number	max. working load [N]		dimensions [mm]					
		tensile	shear	L	B	T	H	h	
ClickConnection PS31	10-71805	3000	1000	105	35	5	60	21	20


## rail extensions

### RL Rail Extender

For the in-line connection of two FastFix rails.

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

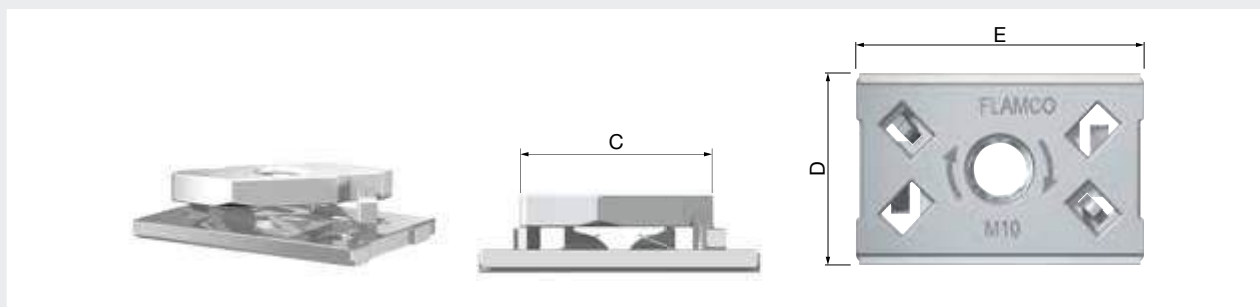



type	article number	suitable for rail	dimensions [mm]							
			A	B	C	D	E	F	H	
RL 80	10-71605	R0 - 8	45	24	3	3	-	-	80	50
RL 140	10-71608	R0 - R8	110	80	30	35	6.2	5	140	50

## 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 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.

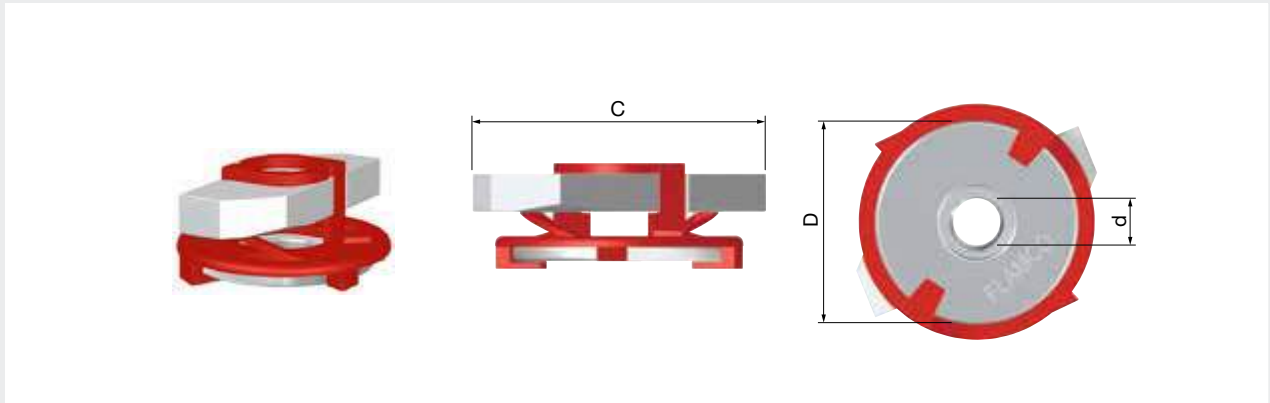



type	article number	connection	max. working load [N]	max. tightening torque [Nm]	rail nut (C) [mm]	locking plate (D x E) [mm]	
<b>ClickFit M6</b>	10-80306	M6	2100	10	39 x 13.8	30 x 45	100
<b>ClickFit M8</b>	10-80307	M8	2100	15	39 x 13.8	30 x 45	100
<b>ClickFit M10</b>	10-80308	M10	2100	15	39 x 13.8	30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

### ClickEasy

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

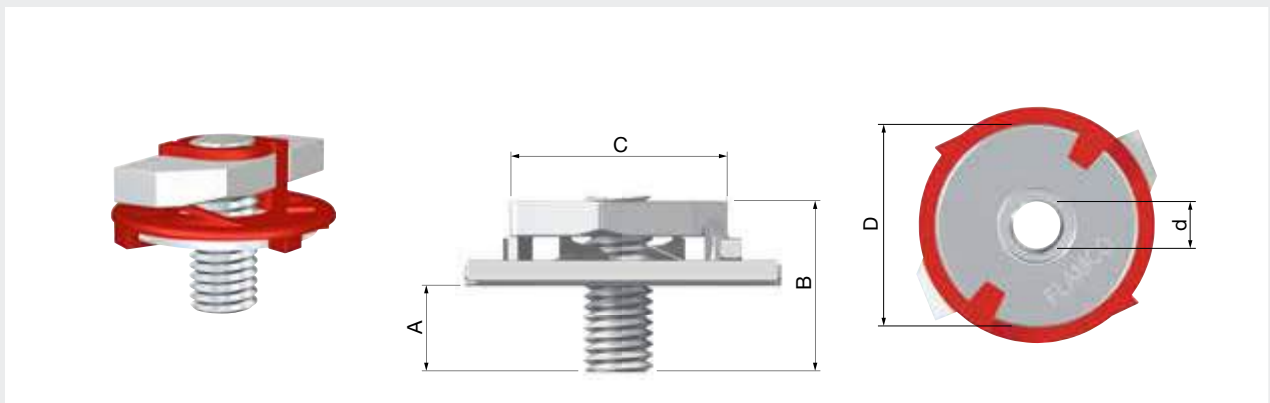
- Suitable for any type of FastFix rail.
- Non-return stop (plastic).
- Reduced installation time.
- No loose parts like studs, washers and nuts.
- Electrolytically zinc plated.
- Safety margin for minimum breaking load (V) = 3.




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

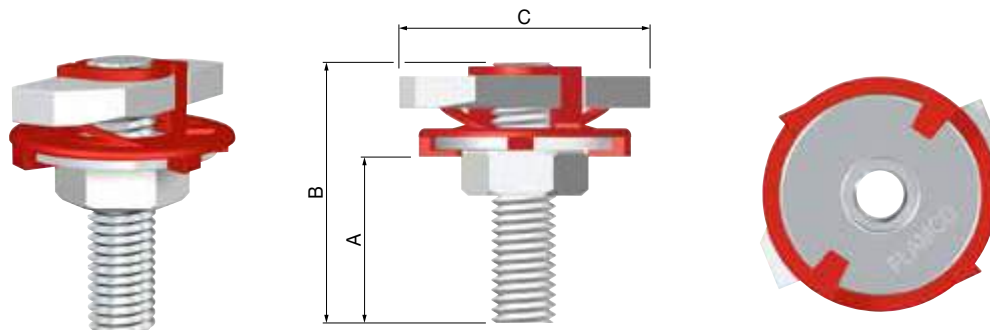
Similar to the ClickEasy, but fitted with threaded pin.




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

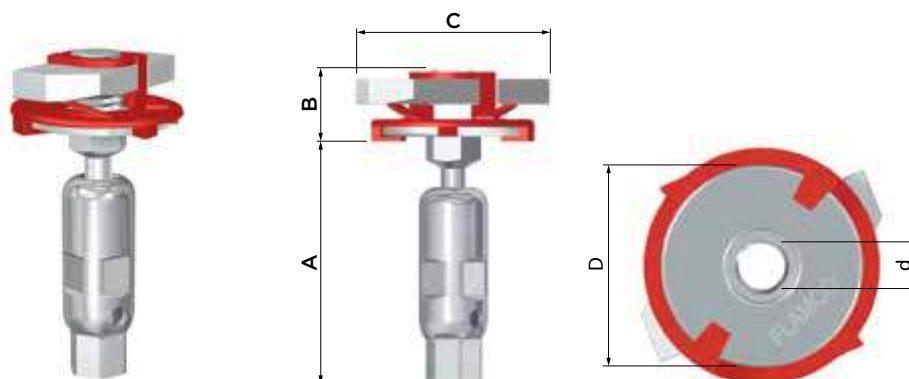
Similar to the ClickEasy, but fitted with threaded pin and locknut.




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 FastFix rail.

- Electrolytically zinc plated.

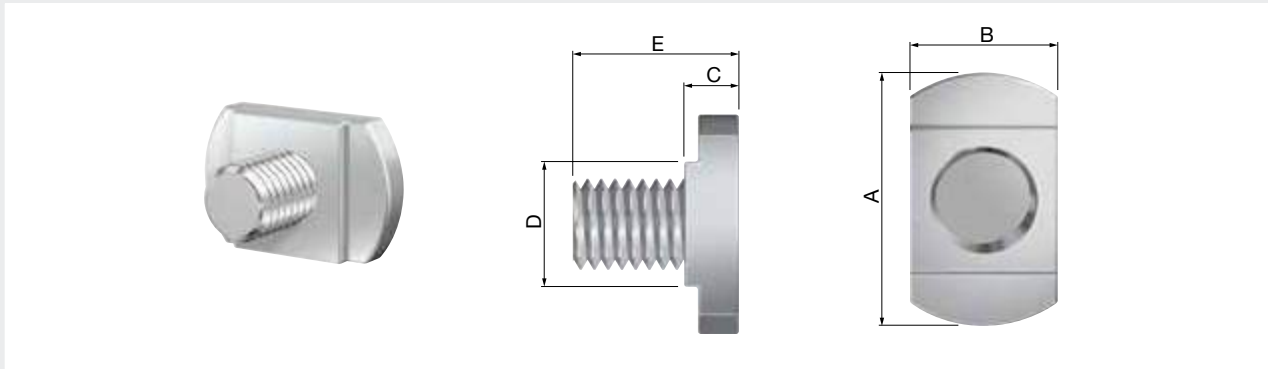



type	article number	suitable for rail	connection	dimensions [mm]				
				A	B	C	D	
<b>M6s</b>	10-80301	R0 - 8	M6	23	15	5	14	1000
<b>M8s</b>	10-80302	R0 - 8	M8	23	15	5	14	1000
<b>M10s</b>	10-80303	R0 - 8	M10	23	15	5	14	1000
<b>M12s</b>	10-80304	R0 - 8	M12	25	22	6	14	250

### HB Hammer Head Bolts

For easy mounting of a suspension in FastFix rail.

- Electrolytically zinc plated.

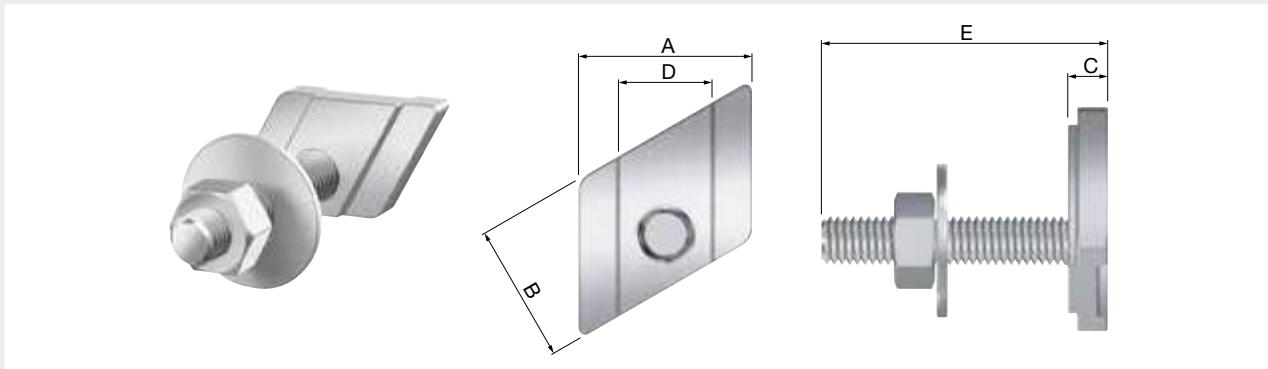



type	article number	suitable for rail	connection	dimensions [mm]					
				A	B	C	D	E	
<b>HB 6</b>	10-70401	R0 - 8	M6	24	14	5	14	14	500
<b>HB 8</b>	10-70402	R0 - 8	M8	24	14	5	14	15	500
<b>HB 10</b>	10-70403	R0 - 8	M10	24	14	5	14	17	500

### HBS Hammer Head Bolt Sets

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

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



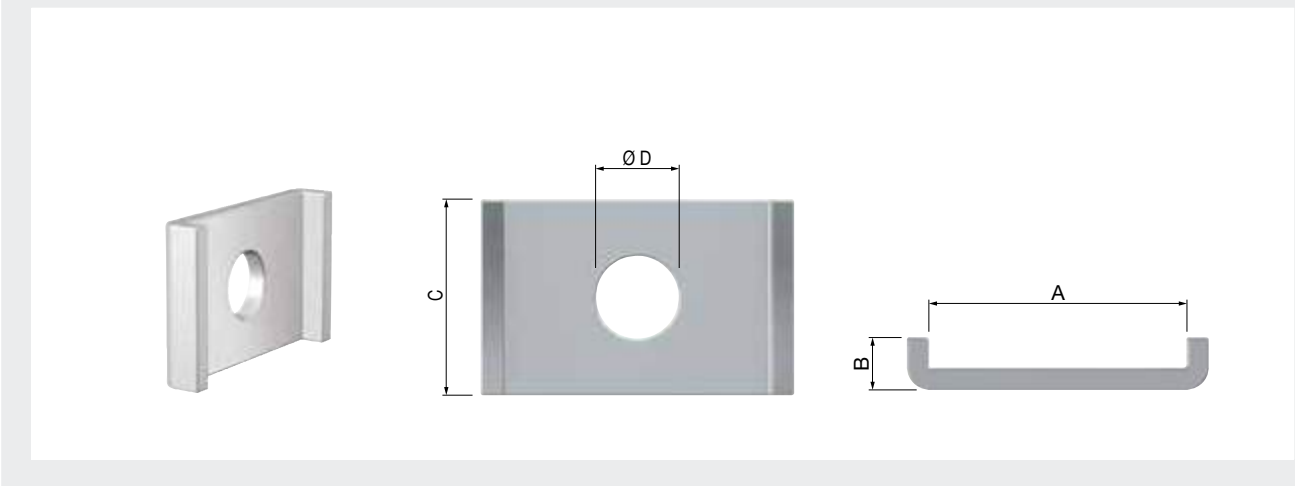
type	article number	connection	max. working load [N]	dimensions [mm]					
				A	B	C	D	E	
<b>HBS 8 x 25</b>	10-70450	M8	3000	25	20	6.5	13.5	25	10
<b>HBS 8 x 30</b>	10-70451	M8	3000	25	20	6.5	13.5	30	10
<b>HBS 8 x 40</b>	10-70452	M8	3000	25	20	6.5	13.5	40	10
<b>HBS 8 x 50</b>	10-70453	M8	3000	25	20	6.5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

## clamping plates

For easy mounting of a suspension in FastFix rail.

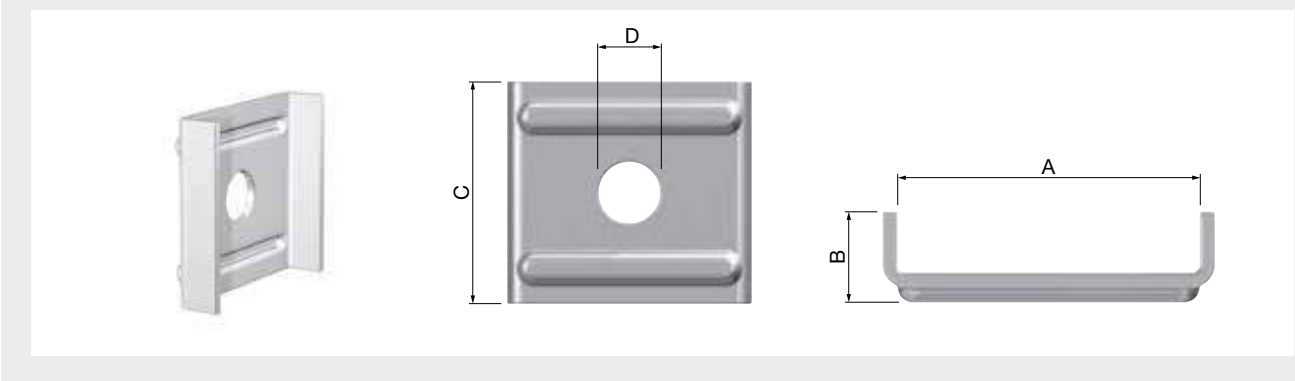
- Electrolytically zinc plated.

### SP Clamping Plates



type	article number	suitable for rail	connection	dimensions [mm]				📦
				A	B	C	D	
SP 8	10-80608	R2 - R4	M8	34	7	25	8.5	100
SP 10	10-80610	R2 - R4	M10	34	7	25	10.5	100
SP 12	10-80612	R2 - R4	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 - R8	M8	40	12	40	8.5	50
SP 10 SR	10-80634	R6 - R8	M10	40	12	40	11.5	50
SP 12 SR	10-80636	R6 - R8	M12	40	12	40	12,5	50

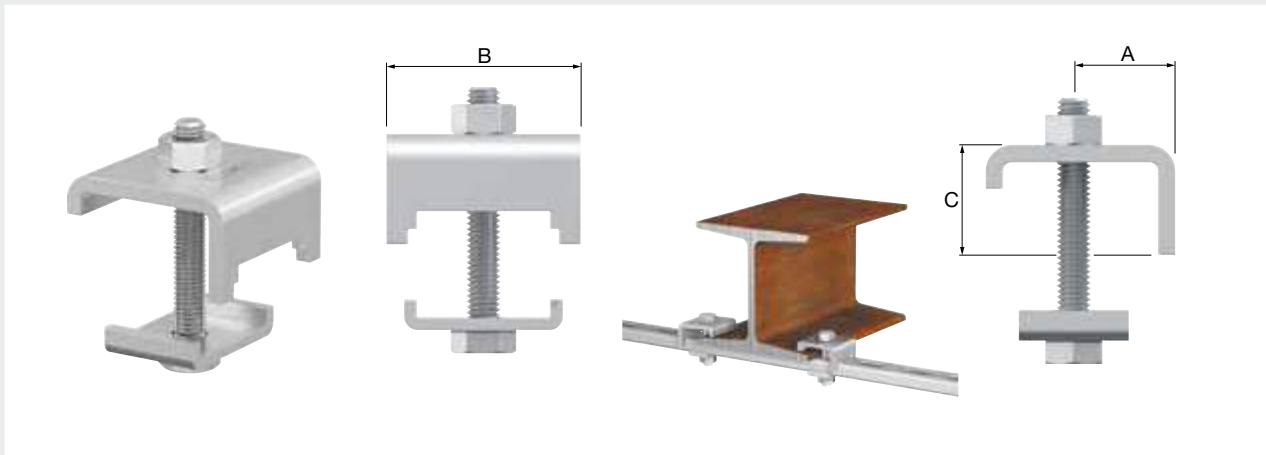
## rail girder clips


### RB Rail girder clips

For mounting FastFix rail to steel profiles without drilling or welding.  
Can be used in combination with 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	
<b>RB 1</b>	10-80601	R1	M8 x 55	15	20	44	36 x 25	50
<b>RB 2</b>	10-80602	R2	M8 x 55	15	20	44	40 x 25	50
<b>RB 3 / 4</b>	10-80604	R3 - R4	M10 x 80	15	20	44	40 x 25	50
<b>RB 6</b>	10-80603	R6	M10 x 100	15	20	50	44 x 40	50
<b>RB 7 / 8</b>	10-80605	R7 - R8	M10 x 80	15	20	50	44 x 40	10





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]	
<b>D 8 x 25</b>	10-70750	M8	25	100
<b>D 8 x 40</b>	10-70751	M8	40	100
<b>D 8 x 70</b>	10-70752	M8	70	100
<b>D 8 x 80</b>	10-70753	M8	80	100
<b>D 8 x 100</b>	10-70754	M8	100	100
<b>D 8 x 150</b>	10-70760	M8	150	100
<b>D 8 x 200</b>	10-70761	M8	200	100
<b>D 10 x 25</b>	10-70755	M10	25	100
<b>D 10 x 40</b>	10-70756	M10	40	100
<b>D 10 x 50</b>	10-70765	M10	50	100
<b>D 10 x 60</b>	10-70757	M10	60	100
<b>D 10 x 80</b>	10-70758	M10	80	100
<b>D 10 x 100</b>	10-70759	M10	100	100
<b>D 10 x 120</b>	10-70762	M10	120	100
<b>D 10 x 150</b>	10-70763	M10	150	100
<b>D 10 x 200</b>	10-70764	M10	200	100

### Threaded Tube Female




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

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

### Threaded Tube Male



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


type	article number	Size	L. [mm]	
<b>Threaded pipe ½ x 2 m</b>	10-51611	G½" M	2000	10
<b>Threaded pipe ¾ x 2 m</b>	10-51612	G¾" M	2000	5
<b>Threaded pipe 1 x 2 m</b>	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]	
<b>D 6</b>	10-70011	M6	1	2500	100 m
<b>D 8</b>	10-70012	M8	1	4500	50 m
<b>D 8</b>	10-70042	M8	3	4500	75 m
<b>D 8</b>	10-70032	M8	2	4500	50 m
<b>D 10</b>	10-70013	M10	1	7000	25 m
<b>D 10</b>	10-70033	M10	2	7000	40 m
<b>D 10</b>	10-70043	M10	3	7000	60 m
<b>D 12</b>	10-70014	M12	1	10000	20 m
<b>D 12</b>	10-70034	M12	2	10000	30 m
<b>D 12</b>	10-70044	M12	3	10000	45 m
<b>D 16</b>	10-70015	M16	1	18000	10 m

## 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		
<b>LB 17 galv.</b>	10-71015	✓	10	17	Ø 6.5	800	1
<b>LB 17 galv.</b>	10-71020	-	25	17	Ø 6.5	800	1
<b>LB 19 coated</b>	10-71016	✓	10	19	Ø 6.5	800	1

### EB Female Suspension Eye

Forged cast iron, zinc plated.



type	article number	connection	
<b>EB 25 - 8</b>	10-33267	M8	250




## nuts

For easy mounting of a suspension in FastFix rail.

- Electrolytically zinc plated.

### M Nuts



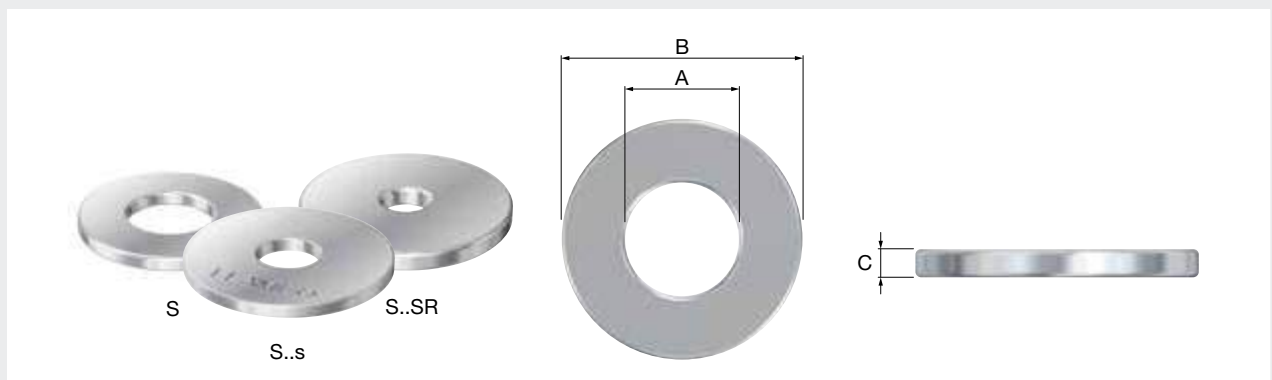
type	article number	spanner size [SW]	connection	nut height [mm]	
<b>M6</b>	10-70201	10	M6	5	1000
<b>M8</b>	10-70202	13	M8	6.5	1000
<b>M10</b>	10-70203	17	M10	8	1000
<b>M12</b>	10-70204	19	M12	10	500
<b>M16</b>	10-70205	24	M16	13	250
<b>M20</b>	10-70206	30	M20	16	100


## washers

For easy mounting of a suspension in FastFix rail.

- Electrolytically zinc plated.

### S Washers




type	article number	connection (A)	dimensions [mm]		
			B	C	
<b>S 6</b>	10-70801	M6	14	0.8	250
<b>S 8</b>	10-70802	M8	18	1.5	250
<b>S 10</b>	10-70803	M10	22	1.5	250
<b>S 12</b>	10-70804	M12	28	2.0	1000
<b>S 16</b>	10-70805	M16	33	2.0	250
<b>S 20</b>	10-70806	M20	40	2.5	250
<b>S 6s</b>	10-70811	M6	25	2.0	1000
<b>S 8s</b>	10-70812	M8	28	2.0	1000
<b>S 10s</b>	10-70813	M10	28	2.0	1000
<b>S 8 SR</b>	10-70832	M8	40	4.0	100
<b>S 10 SR</b>	10-70833	M10	40	4.0	100
<b>S 12 SR</b>	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.					
<b>SCS 7.5 x 50</b>	10-82050	7.5	50	13	6	55	3.7	100
<b>SCS 7.5 x 60</b>	10-82051	7.5	60	13	6	55 / 65	3.7 / 5.3	100
<b>SCS 7.5 x 80</b>	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.
<b>SCS 7.5 x 50</b>	500	500	500	400
<b>SCS 7.5 x 80</b>	1100	800	500	400
<b>SCS 7.5 x 60</b>	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.					
<b>SCS-I 7.5 x 35</b>	10-82044	7.5	35	13	6	45	1.9	50
<b>SCS-I 7.5 x 60</b>	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.



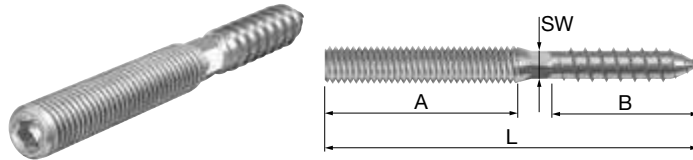
## SCS-P - Fire performance

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.

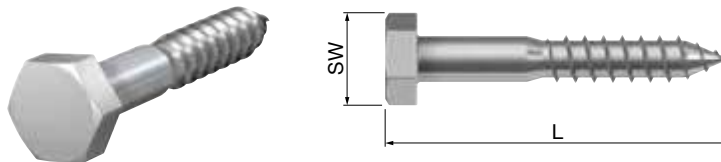


type	article number	threaded connection (D)	dimensions [mm]					torx	
			L	A	B	spanner (SW)	Ø (wood thread)		
HO 8 x 50	10-70607	M8	50	15	30	6	7	25	100
HO 8 x 80	10-70601	M8	80	40	30	6	7	25	100
HO 8 x 100	10-51702	M8	100	40	40	6	7	25	100
HO 8 x 120	10-70604	M8	120	50	50	6	7	25	100
HO 8 x 160	10-51705	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.

### 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	dimensions [mm]			
		spanner [SW]	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

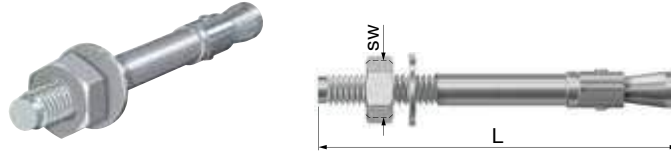
## AS - Fire performance


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



AP 8 - AP 12

AP 6

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.

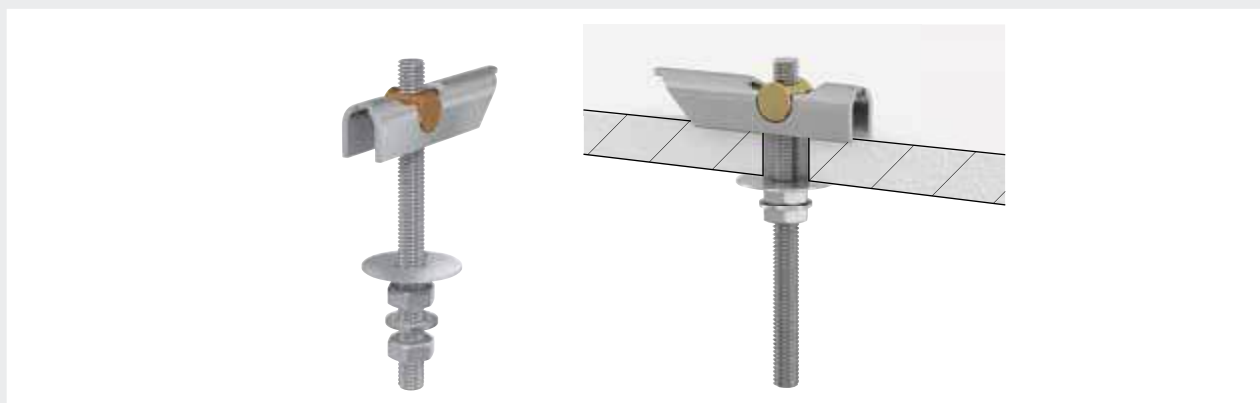
- Corrosion resistant.
- Can be applied without using a hammering pin. The anchor expands when screwing in bolts / threaded rod.
- With metric internal thread.


type	article number	connection	
<b>AB 8</b>	10-82011	M8	100
<b>AB 10</b>	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]	
<b>AT 8 x 100</b>	10-82025	M8	100	22	4000	50
<b>AT 10 x 100 *</b>	10-82026	M10	100	25	6500	25

\* With FM-approval.




## 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/M8/10/M12	50

### Threaded end bit set

Threaded end bit set supplied in a soft case.



type	article number	connection	
threaded end bit set	10-71401	M6/M8/10/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 1/2" backplate.

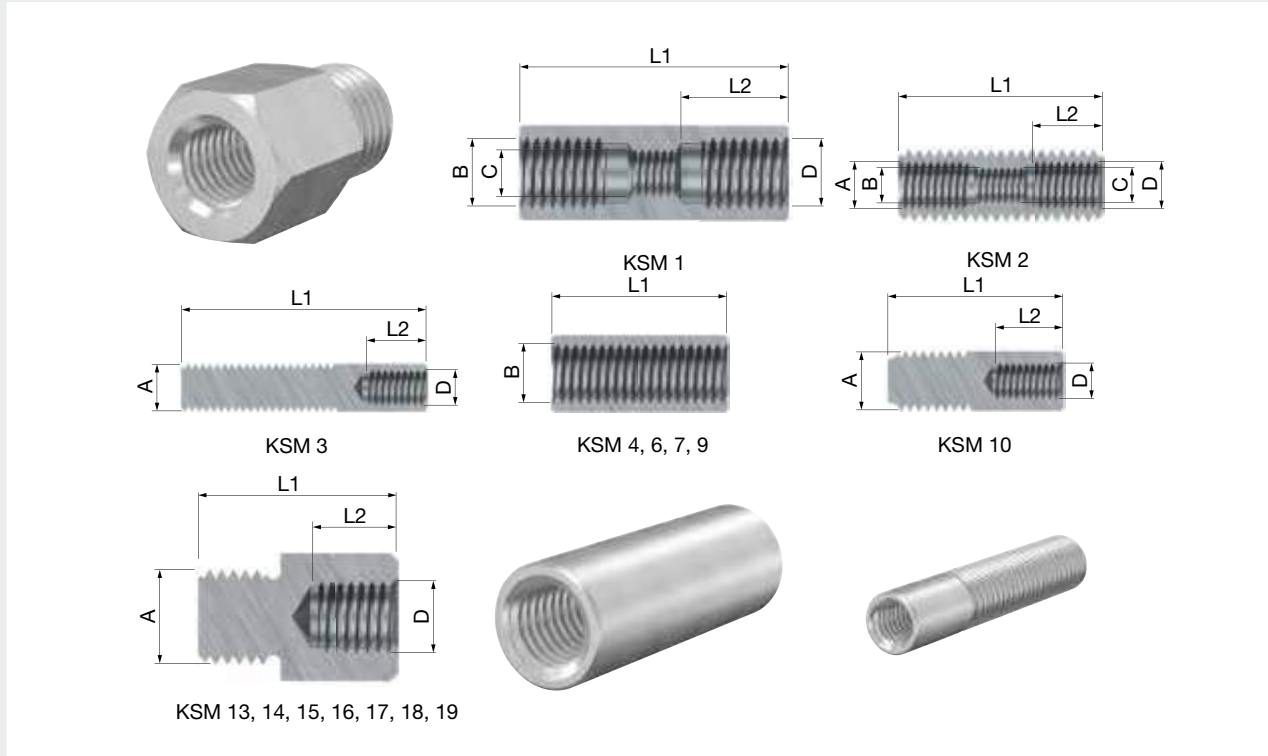


type	article number	connection		dimensions [mm]		
		D1	D2	B	L	
AD 8 x 1/2	10-70914	M8 M	1/2" F	26	31	100
AD 10 x 1/2	10-70915	M10 M	1/2" F	26	33	100
AD 1/2 x 3/4	10-70922	1/2" F	3/4" F	31.5	26	100

**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		
<b>KSM 2</b>	10-70902	M12	M8	M6	M8	35	10	round	25
<b>KSM 3</b>	10-70903	M8	-	-	M6	42	8	round	25
<b>KSM 4</b>	10-70904	-	M10	-	-	30	-	hex.	25
<b>KSM6</b>	10-70906	-	M6	-	-	20	-	hex.	25
<b>KSM 7</b>	10-70907	-	M8	-	-	25	-	hex.	25
<b>KSM 9</b>	10-70909	-	M12	-	-	30	-	hex.	25
<b>KSM10</b>	10-70910	M10	-	-	M6	30	10	round	500
<b>KSM 13</b>	10-70913	M8	-	-	M10	22	7	hex.	25
<b>KSM 14</b>	10-70917	M10	-	-	M12	25	7	hex.	25
<b>KSM 15</b>	10-70918	M12	-	-	M10	23	7	hex.	25
<b>KSM 17</b>	10-70919	M12	-	-	M16	35	12	hex.	25
<b>KSM 18</b>	10-70920	M16	-	-	M12	34	12	hex.	25
<b>KSM 19</b>	10-70921	M10	-	-	M8	21.5	8	hex.	25

**Sleeve**



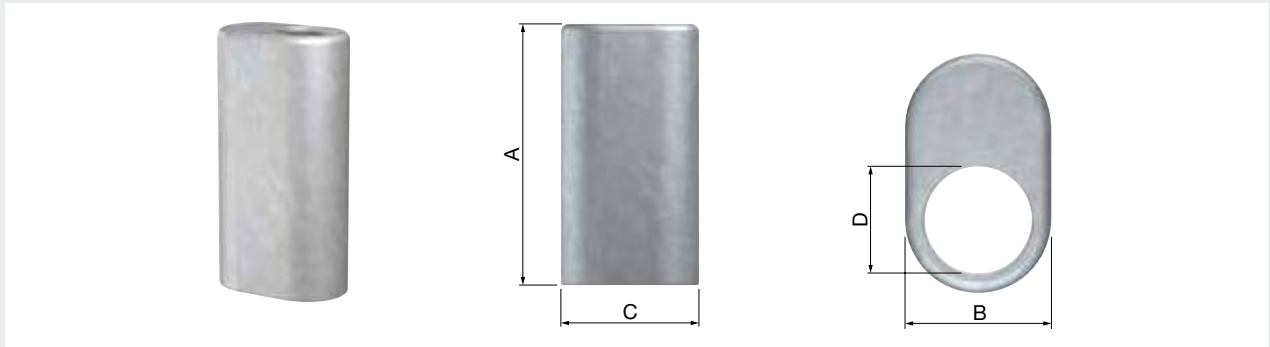
To make connections between clips, backplates and threaded tubes.


type	article number	connection	📦
<b>Sleeve 1/2</b>	10-52810	1/2" 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.

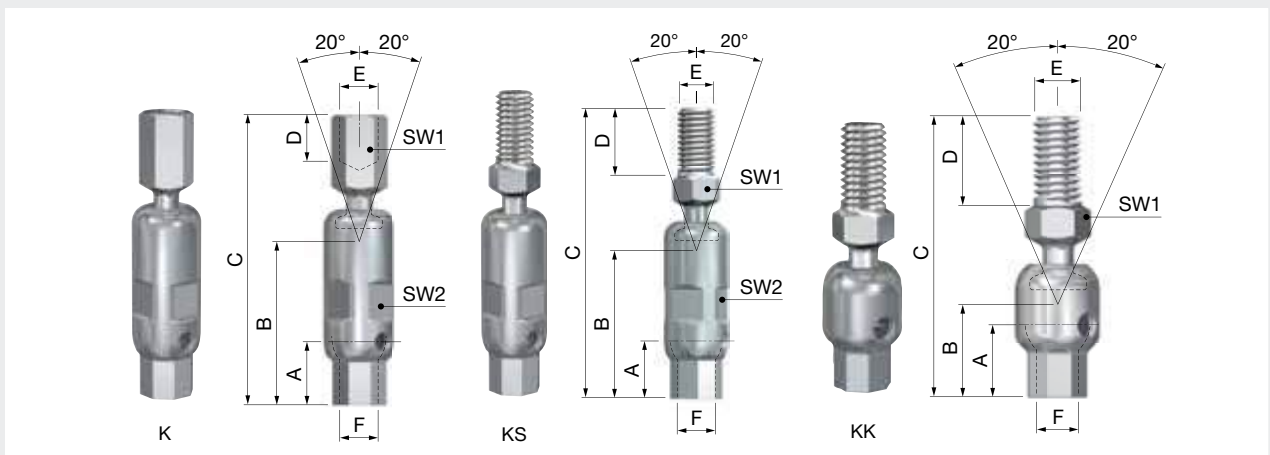



type	article number	connection	dimensions [mm]				max. working load [N]	
			A	B	C	D		
<b>PV 8</b>	10-70951	M8	34	11	18.5	8	2800	50
<b>PV 10</b>	10-70952	M10	35	14	23	10	2800	50

## 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		
<b>K 6 x 6</b>	10-80103	M6 F	M6 F	58	8	30	8	10	12	1500	50
<b>K 12 x 12</b>	10-80105	M12 F	M12 F	90	8	30	13	19	24	5000	50
<b>KS 8 x 8</b>	10-80111	M8 M	M8 F	63	8	30	15	10	12	2500	50
<b>KS 10 x 10</b>	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	
<b>EB 25 - 8</b>	10-33267	M8	250

### eye bolts



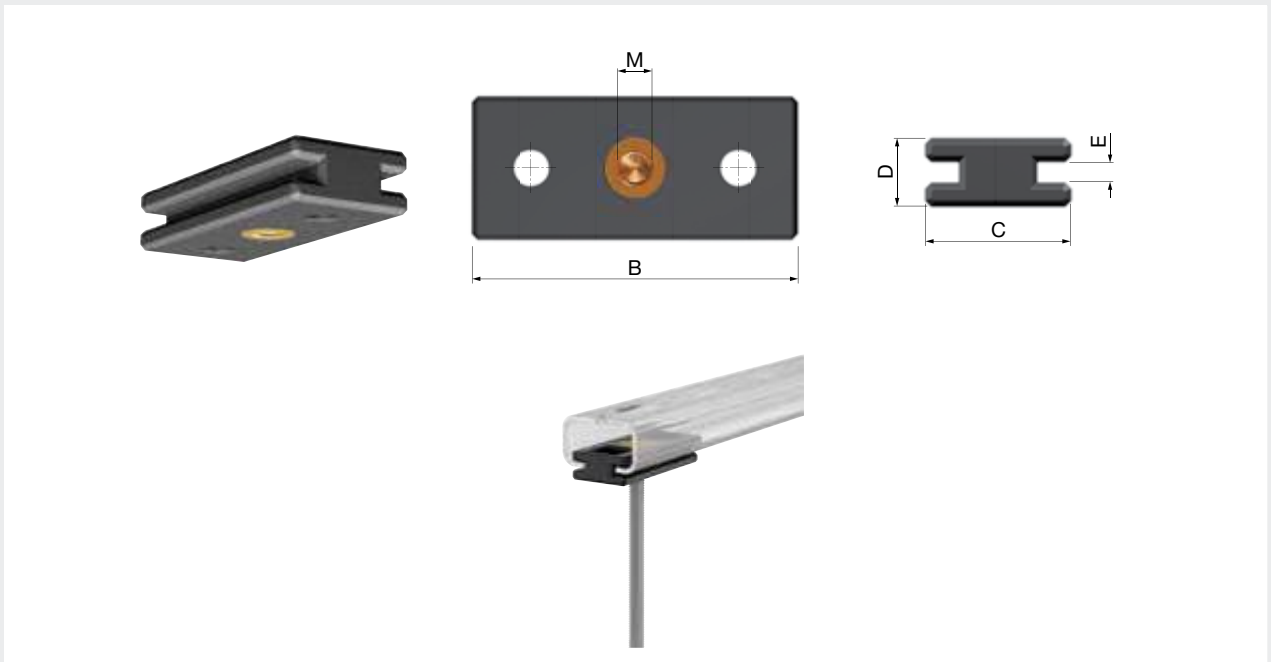
type	article number	version	connection thread	
<b>Copper screw eye</b>	10-52808	Copper	M6 x 24	100
<b>Chrome/nickel alloy screw eyes</b>	10-52806	Chrome/nickel alloy	M6 x 24	100


## 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

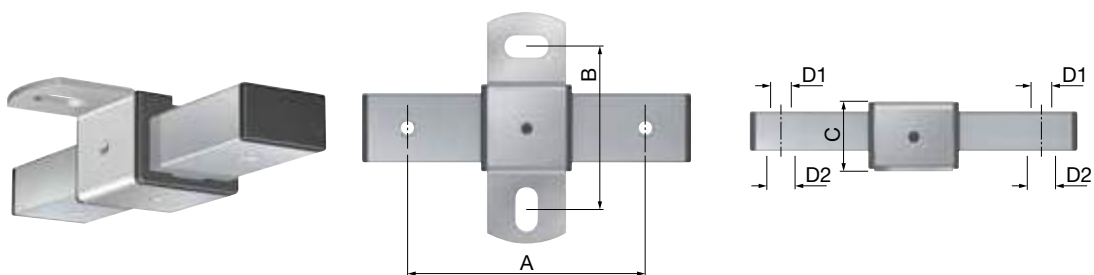
- Sliding block: nylon PA 6.
- Threaded connection: brass.
- Suitable for any type of FastFix rail.
- Maximum axial movement depends on rail length.




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

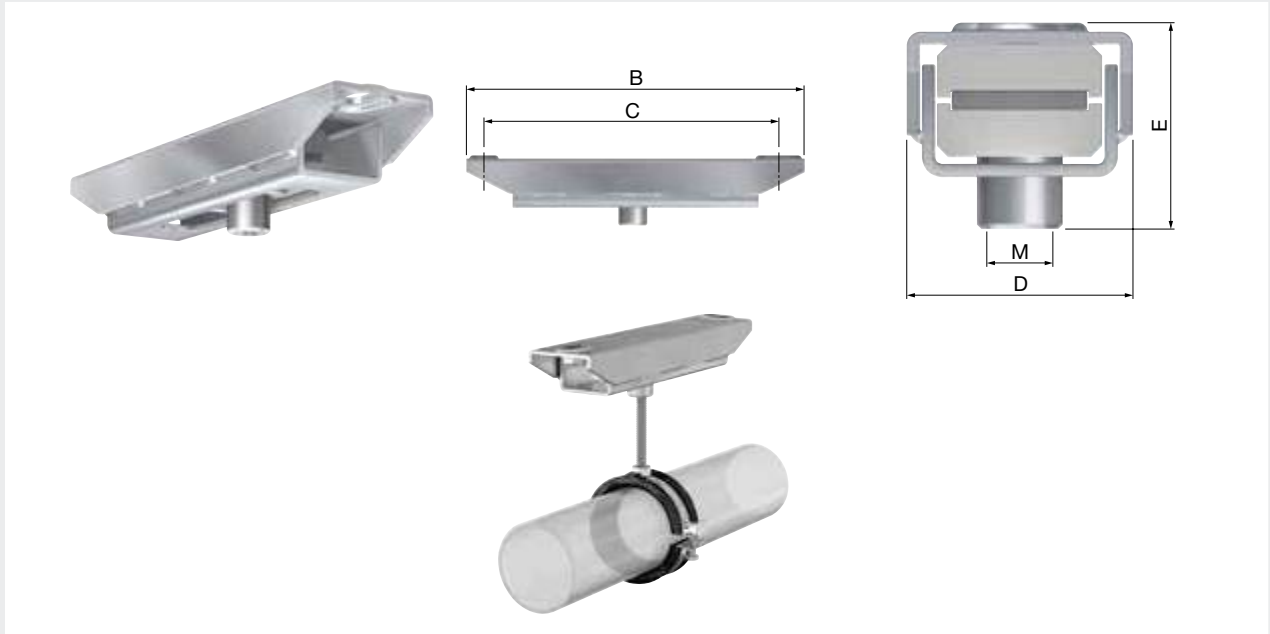
- Backplate S235JR EN 10250/2: electrolytically zinc plated.
- Carriage holder: nylon PA 6.
- Tube S235JR EN 10250/2: electrolytically zinc plated.
- Plate stop: plastic.
- Standard axial movement 60 mm.
- Enlarged axial movement when FastFix rail R2 is used instead of pipe.
- slotted holes for accurate 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		
<b>GK 150 - M8/10</b>	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.



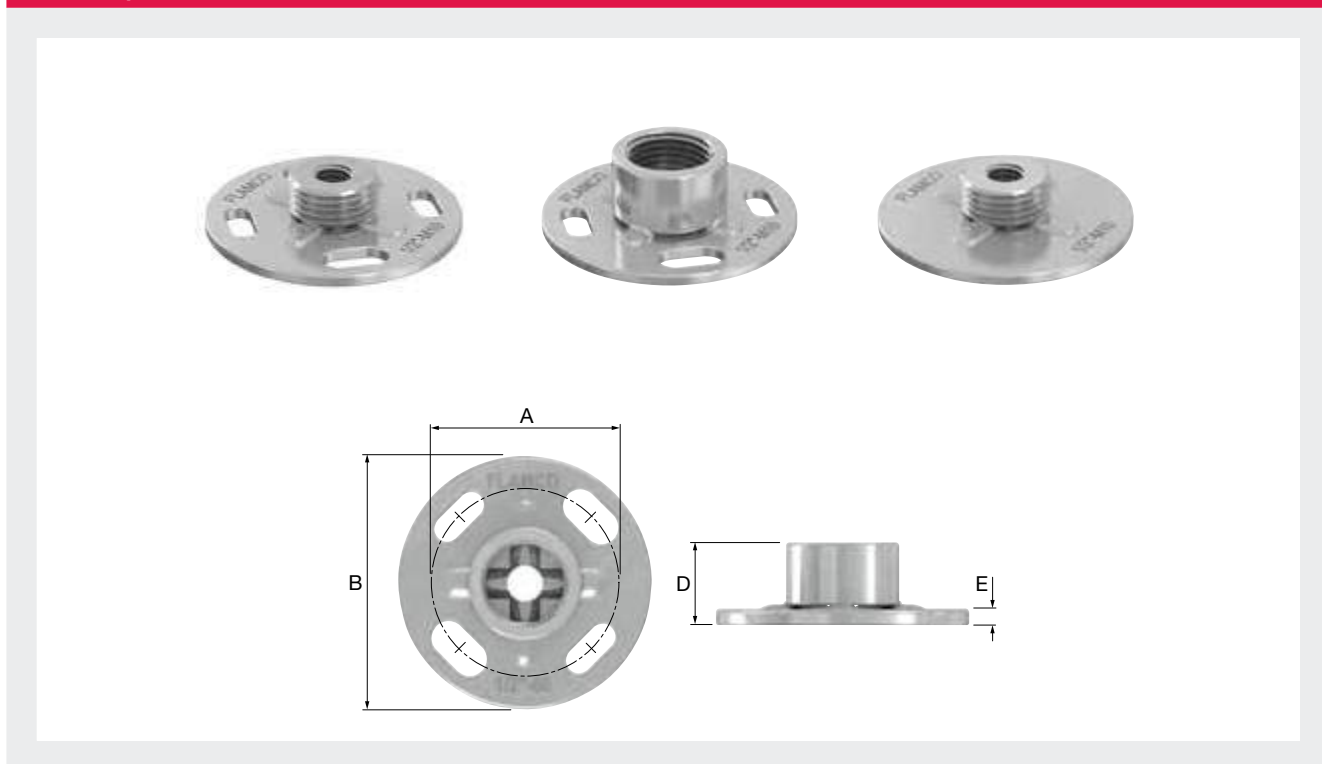
type	article number	connection (M)	dimensions [mm]					slotted hole	max. working-load [N]	
			B	C	D	E				
<b>GK 500 - M10</b>	10-71714	M10	220	195	50	45	11 x 22	5000	10	
<b>GK 500 - M12</b>	10-71716	M12	220	195	50	45	11 x 22	5000	10	


## backplates

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

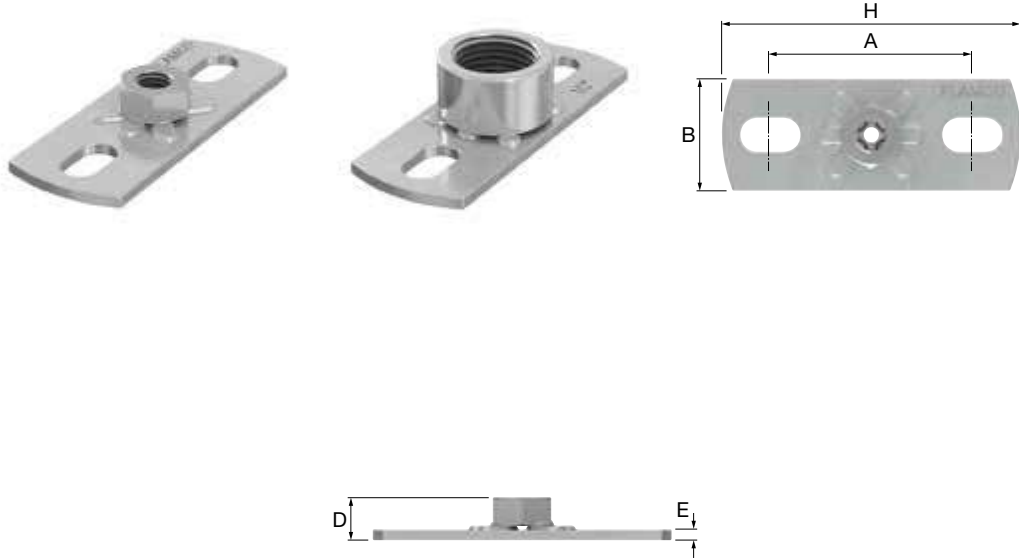
- Electrolytically zinc plated.
- slotted holes for fixing.
- Can also be used in fixed point constuctions, in combination with KB clips or BVP bracket, fixed point.


### GP backplates Ø 60



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

GP backplates 80 x 30

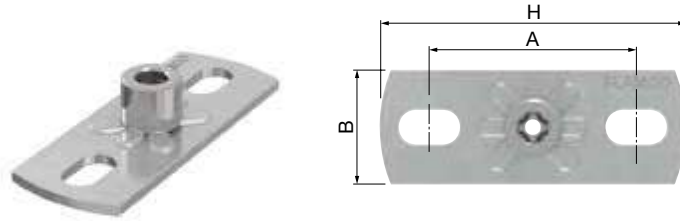



type	article number	connection	dimensions [mm]					slotted hole	
			A	B	H	D	E		
<b>GP 8 / 10 - 80 x 30</b>	10-39410	M8/10	54	30	80	18	3	9 x 16	50
<b>GP 8 - 80 x 30 *</b>	10-39417	M8	54	30	80	11	3	9 x 16	50
<b>GP 10 - 80 x 30 *</b>	10-39413	M10	54	30	80	13	3	9 x 16	50
<b>GP 12 - 80 x 30</b>	10-39415	M12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

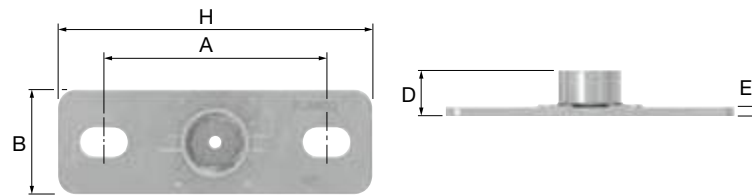
**GP-C Backplates 80 x 30**


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



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

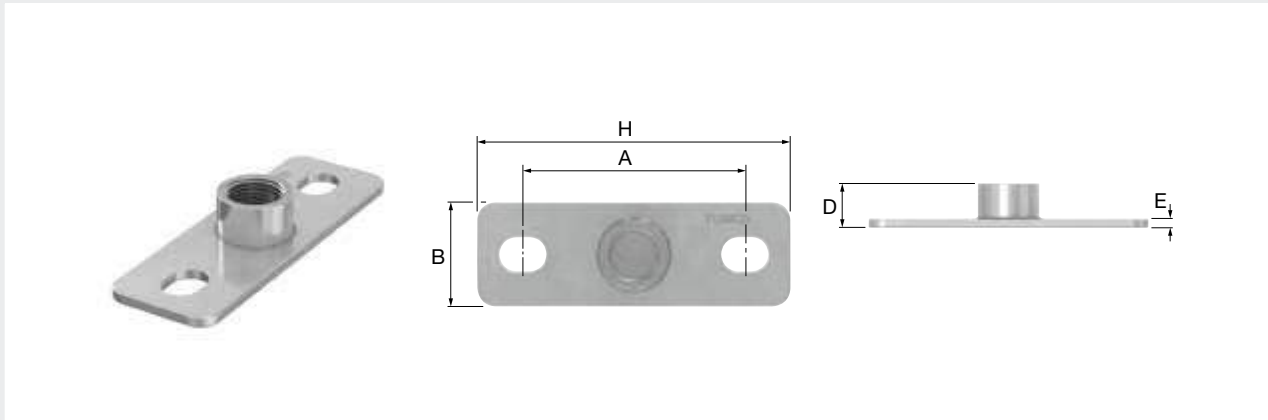
## GP backplates 120 x 40



type	article number	connection	max. vertikal arbetsbelastning [N]	dimensions [mm]					slotted hole	
				A	B	H	D	E		
<b>GP 8 - 120 x 40</b>	10-39432	M8	2000	85	40	120	12	4	11 x 18	50
<b>GP 10 - 120 x 40</b>	10-39433	M10	2500	85	40	120	14	4	11 x 18	50
<b>GP 1/2 / M10 - 120 x 40</b>	10-39442	1/2" M/M10 F	4500	85	40	120	12	4	11 x 18	50
<b>GP 12 - 120 x 40</b>	10-39434	M12	3000	85	40	120	16	4	11 x 18	50
<b>GP 1/2 - 120 x 40</b>	10-39419	1/2" F	10000	85	40	120	19	4	11 x 18	50
<b>GP 3/4 - 120 x 40</b>	10-39411	3/4" F	6000	85	40	120	19	4	11 x 18	50
<b>GP 1 - 120 x 40</b>	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		
<b>GPS 1/2 - 120 x 40</b>	10-39437	G1/2" F	85	40	120	19	4	13 x 18	50
<b>GPS 3/4 - 120 x 40</b>	10-39438	G3/4" F	85	40	120	21	4	13 x 18	50
<b>GPS 1 - 120 x 40</b>	10-39439	G1" F	85	40	120	25	4	13 x 18	50

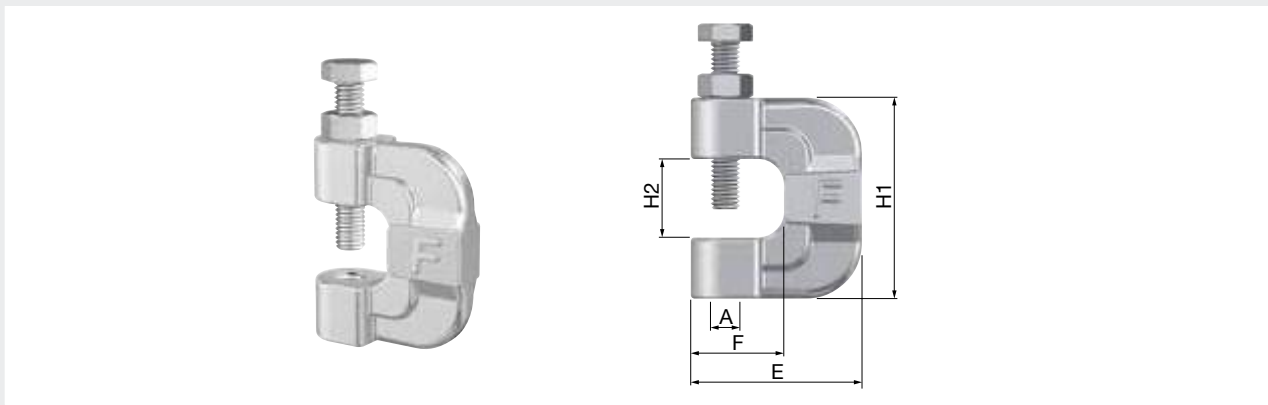
profile fixings

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.

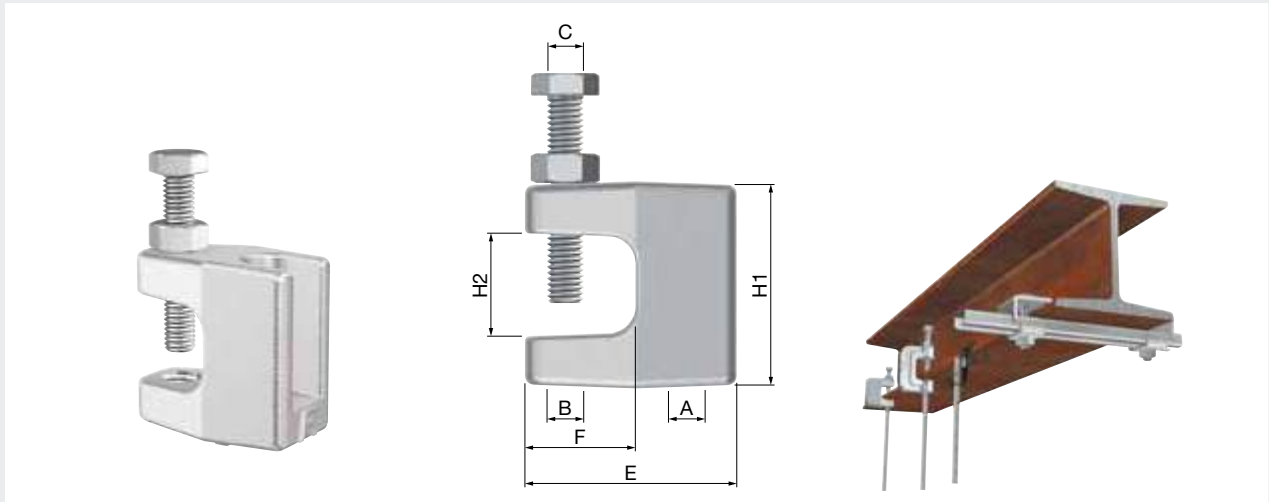



type	article number	connection	max flange thickness [mm]	bolt	max. working load [N]	dimensions [mm]				treatment	
						H1	H2	E	F		
<b>KC 8</b>	10-71522	M8	18	M8 x 45	3800	54	21	46	25	zinc plated	25

## 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			
<b>KCK 6</b>	10-71535	M6 - M8	18	M6 x 35	2100	45	21	46	24	zinc plated	-	25
<b>KCK 8</b>	10-71536	M8/10	18	M8 x 45	3800	45	21	46	24	zinc plated	-	25
<b>KCK 10</b>	10-71537	M10 - M8	18	M10 x 45	4500	45	21	46	24	zinc plated	FM	25
<b>KCK 12</b>	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.

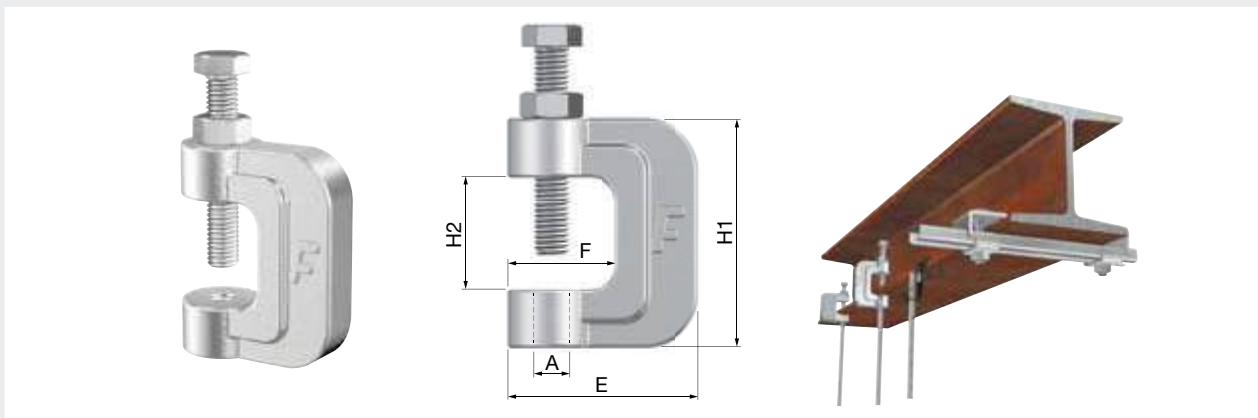



type	article number	suitable for	dimensions [mm]			
			length	width	depth	
AS 1	10-71700	BC	350	25	3	50

### 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.

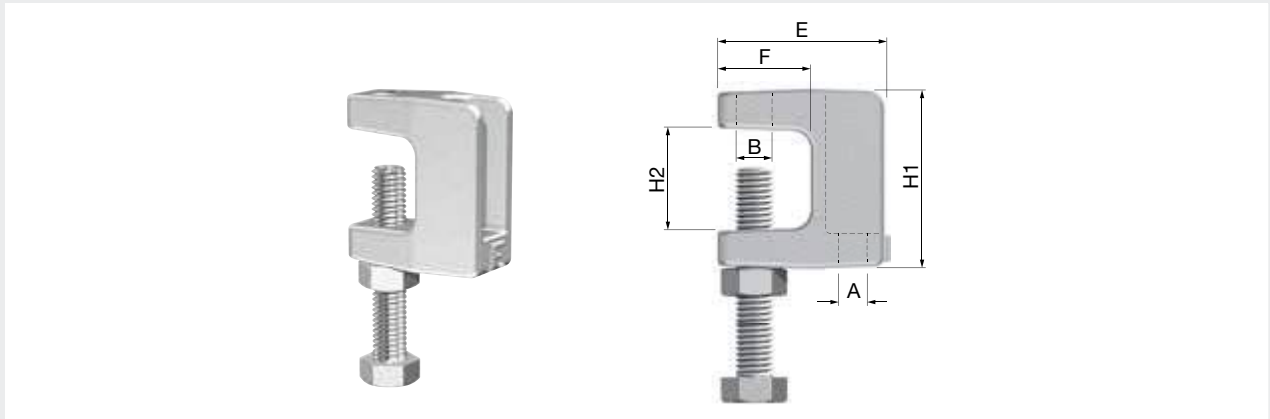



type	article number	connec- tion (A)	max. flange thickness [mm]	bolt	max. working load [N]	dimensions [mm]				
						H1	H2	E	F	
KCH 8	10-71541	M8	30	M10 x 60	3800	65	32	54	30	25
KCH 10	10-71542	M10	30	M10 x 60	6000	65	32	54	30	25
KCH 12	10-71543	M12	30	M12 x 60	6000	65	32	54	30	25
KCH 16	10-71544	M16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

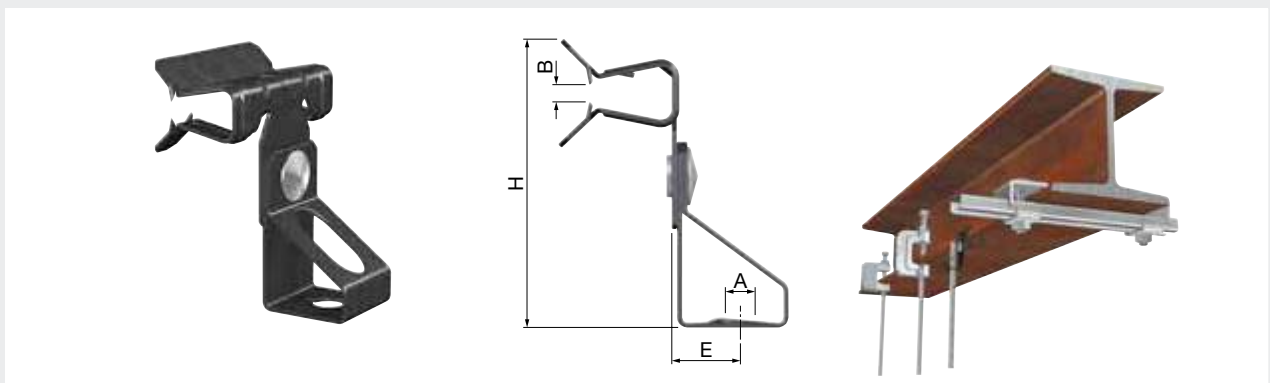



type	article number	connection		max flange thickness [mm]	bolt	max. working load [N]	dimensions [mm]				treatment	
		A	B				H1	H2	E	F		
<b>KCL 6</b>	10-71570	M6	M6	18	M6 x 35	2100	39	21	36	20	zinc plated	25
<b>KCL 8</b>	10-71571	M8	M8	18	M8 x 45	2500	39	21	36	20	zinc plated	25

## 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			
<b>KVS-D8 x 4,8 - 9,5</b>	10-71557	M8	4.8 x 9.5	50	10	700	Untreated	250

## BC Profile Clamps

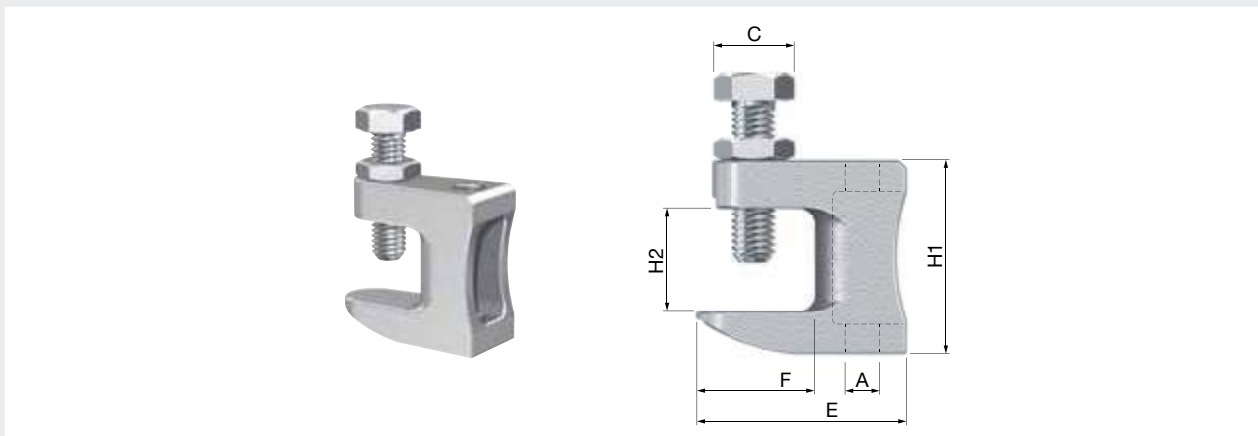
For securing a single mounting next to or under a steel profile without welding or drilling.


- 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]	dimensions [mm]				approval	
					H1	H2	E	F		
<b>BC 8</b>	10-71506	M8	M8 x 30	1200	37	18	38	21	VdS *	50
<b>BC 10</b>	10-71507	M10	M10 x 40	2500	42	19	44	23	VdS * / FM	50
<b>BC 12</b>	10-71508	M12	M10 x 40	3500	54	25	58	35	VdS * / FM	50
<b>BC 9</b>	10-71510	Ø 9	M8 x 30	1200	37	18	38	21	VdS *	50
<b>BC 11</b>	10-71511	Ø 11	M10 x 40	2500	42	19	44	23	FM	50

\* See VdS certificate (on website) for specific VdS validity. AS anchor strip (10-71700) may be required.



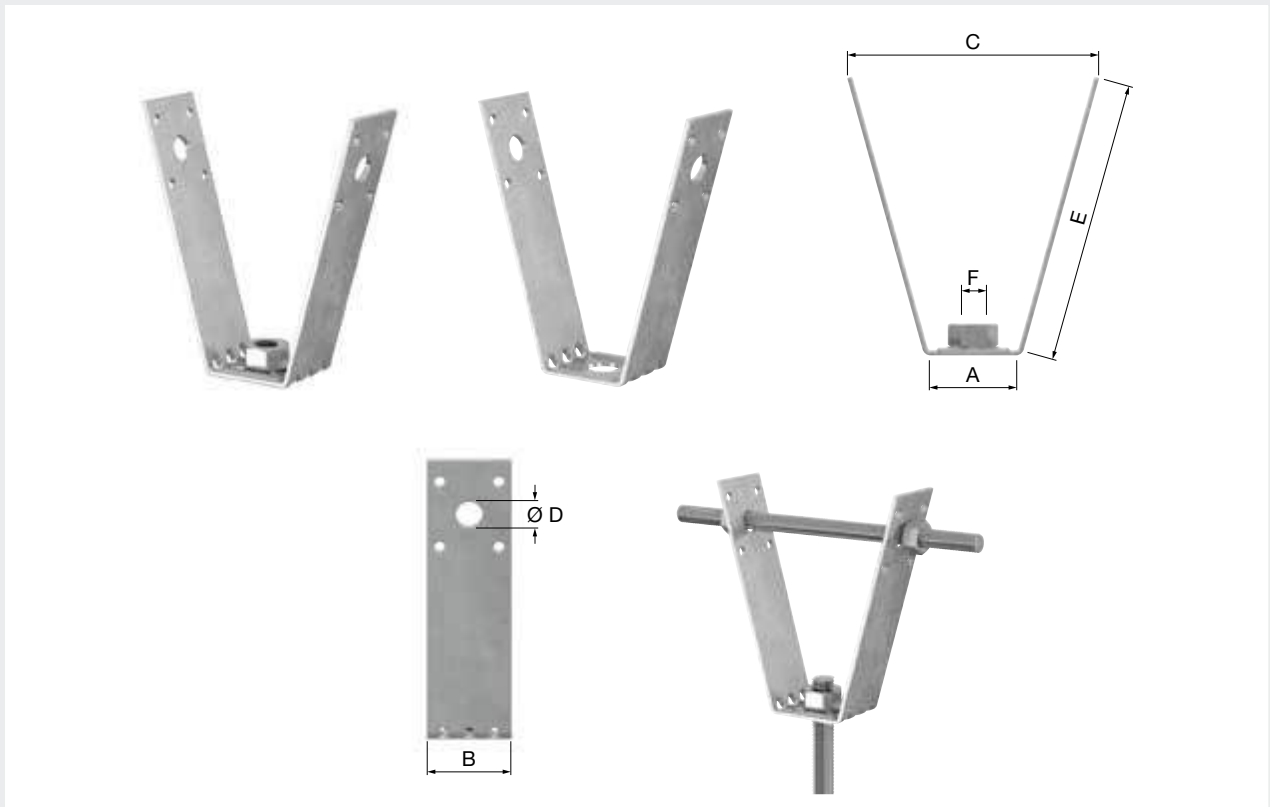
## trapezium fixings


For mounting threaded rod to steel roof profiles.

- Electrolytically zinc plated.
- LT : threadless opening.
- 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		
<b>LTM8</b>	10-71910	32	30	90	10.5	100	M8	10
<b>LTM10*</b>	10-71912	32	30	90	10.5	100	M10	10

\* LTM10 FM approved in combination with clips ranging from ¾" 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	10-27929	1

## backplate assemblies

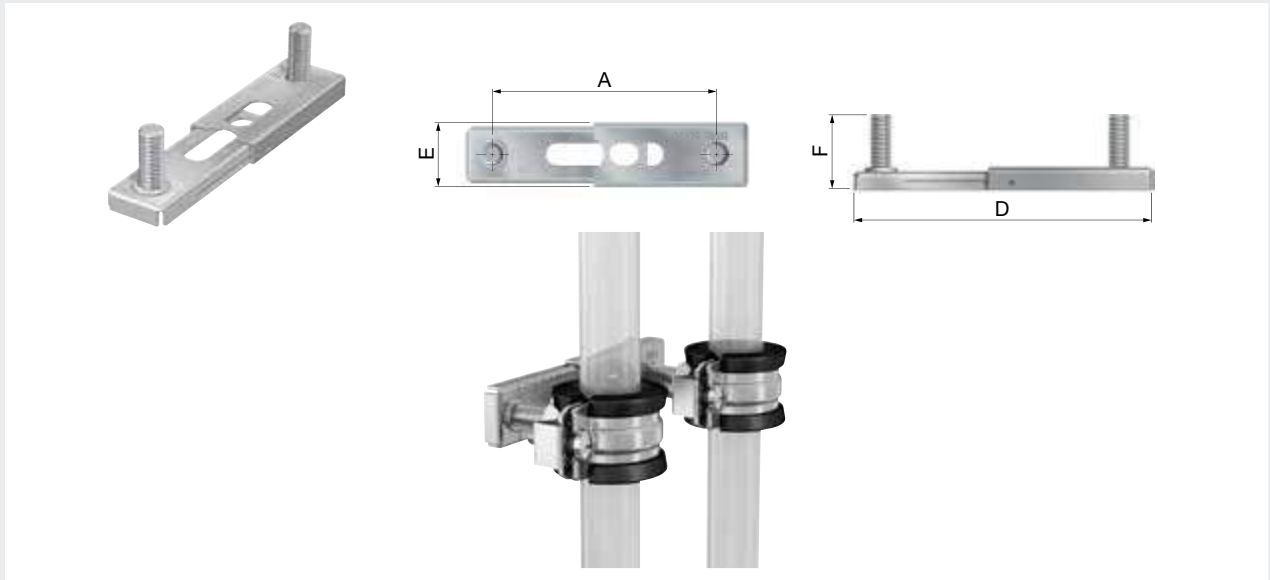
For use in combination with FastFix BS universal clips.


- Electrolytically zinc plated.

### BME Backplate Assembly

For double wall clip mounting.

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

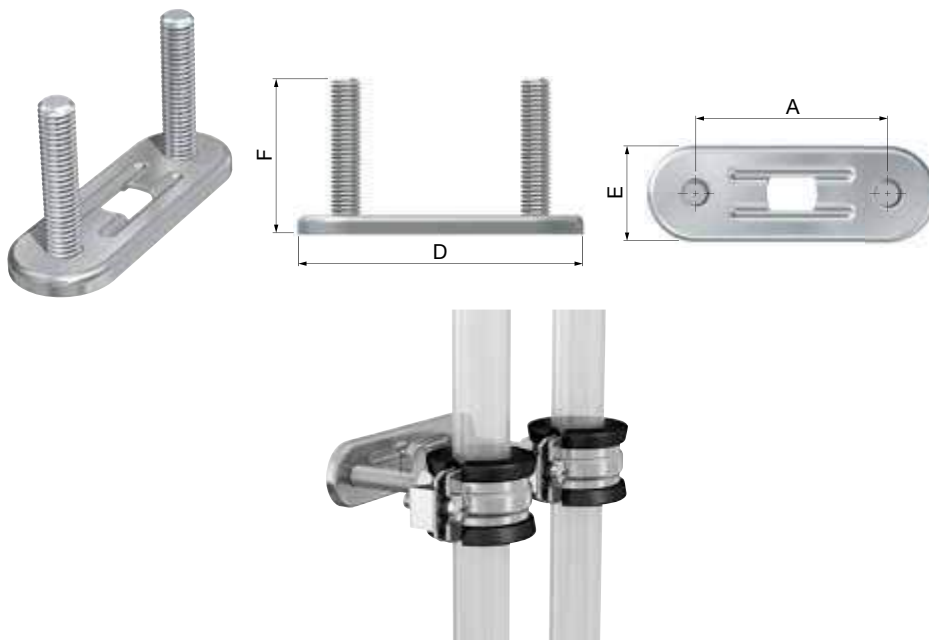



type	article number	connection	dimensions [mm]					
			Ø hole	A	D	E	F	
<b>BME 8 x 50/90</b>	10-39420	M8	8	50 - 90	72 - 112	25	29	100

## 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.



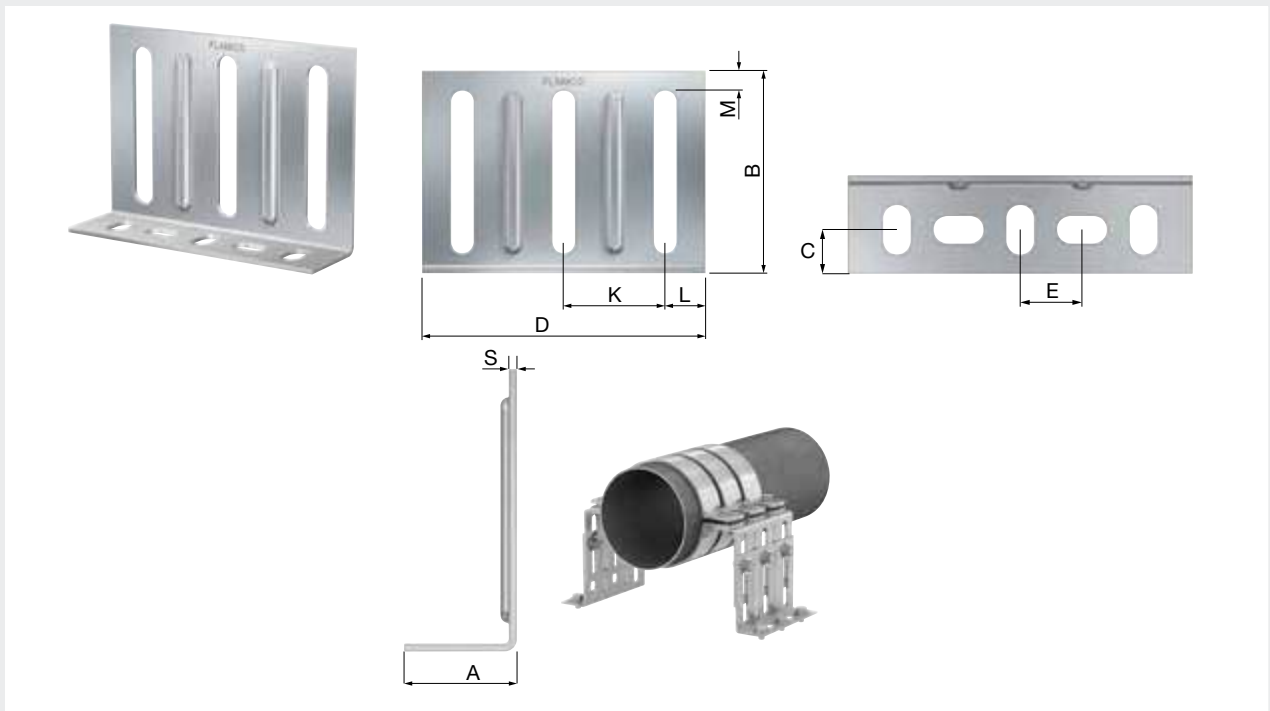
type	article number	connection	dimensions [mm]					
			Ø hole	A	D	E	F	
<b>BMD 8 x 50</b>	10-39424	M8	8	50	76	25	40	100
<b>BMD 8 x 70</b>	10-39426	M8	8	70	96	25	40	100
<b>BMD 8 x 90</b>	10-39428	M8	8	90	116	25	40	100


## 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.
- Sleeves 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.

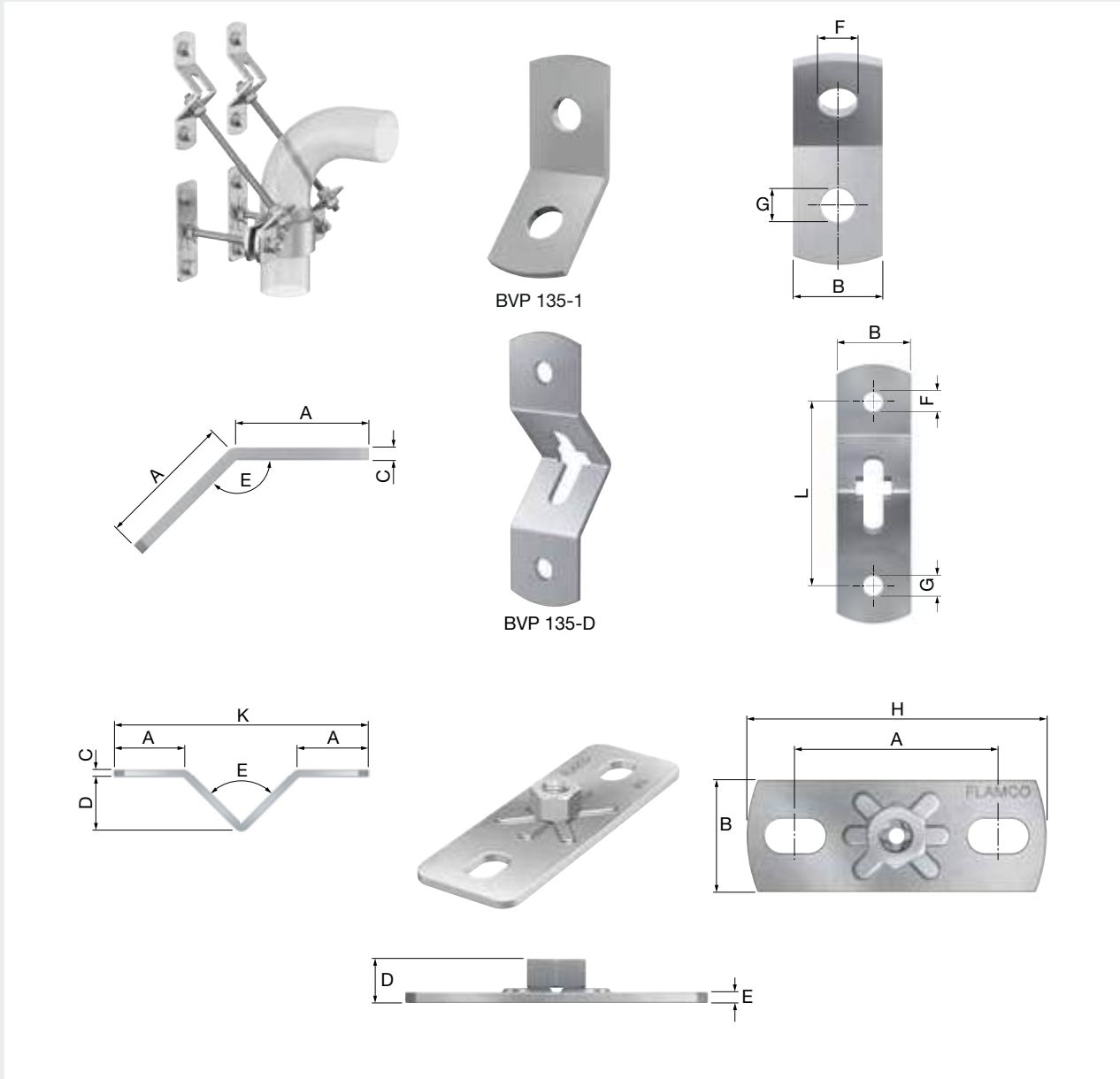



type	article number	dimensions [mm]									
		A	B	C	D	E	K	L	M	S	
<b>VG 140 x 100 x 3</b>	10-71616	40	100	18.5	140	25	50	11	10	3	11

\* 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**

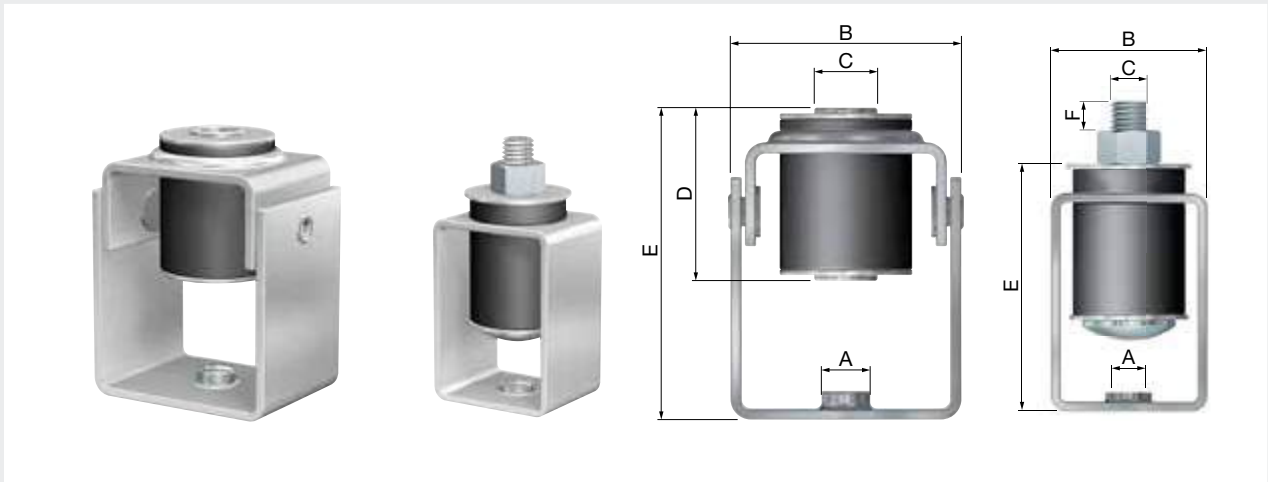
type	dimensions [mm]										
	A	B	C	D	E	F	G	H	K	L	slotted hole
BVP 135-1	40	30	4	-	135°	Ø 11	Ø 13	-	-	-	11 x 13
BVP 135-D	39	40	4	30	90°	Ø 11	Ø 11	-	140	100	11 x 11
GP 10 - 120 x 40	85	40	-	14	4	-	-	120	-	-	11 x 18


## 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		
<b>DA 8</b>	10-80801	M8	Ø 40 x 30	Ø 8.5	32	55	-	500	50
<b>DA 12</b>	10-80802	M12	Ø 50 x 40	M12	-	99	21	2000	50

\* At 20 dB(A) noise reduction.

## piping system identification labels


The identification of pipe contents in piping systems 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

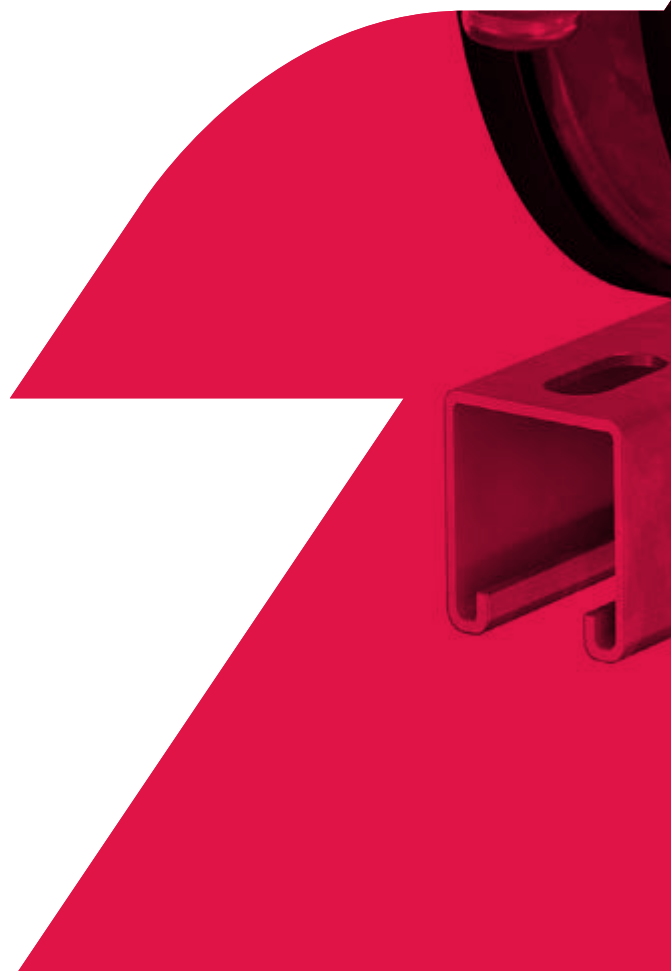
Label card holder with transparent cover plate for do-it-yourself labelling for pipe identification. Suitable for horizontal and vertical pipes in the dimensions DN 8 to DN 50 including 100% insulation (in accordance with EnEV2014 and DIN 4108-4:2013), which corresponds to an external diameter of 10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



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





**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.



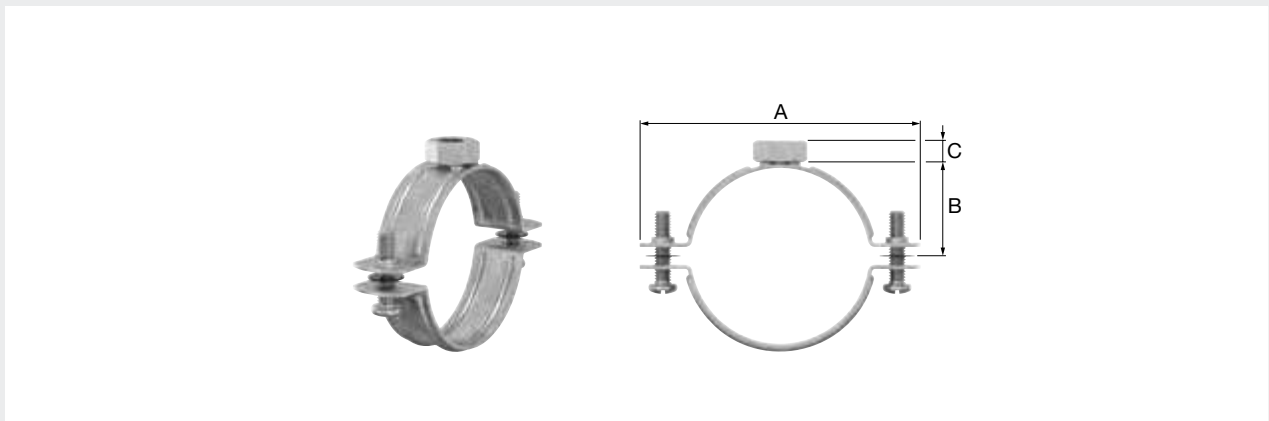
type	article number	Ø pipe		connec- tion	strip dimensi- ons [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. ["]				A	B	C	
<b>BSI-HDG M10 x 8 - 10</b>	10-38830	8 - 10	⅛	M10	20 x 1.5	1000	53	13	14	50
<b>BSI-HDG M10 x 12 - 14</b>	10-38831	12 - 14	¼	M10	20 x 1.5	1000	58	15	14	50
<b>BSI-HDG M10 x 15 - 19</b>	10-38832	15 - 19	⅜	M10	20 x 1.5	1000	62	18	14	50
<b>BSI-HDG M10 x 20 - 25</b>	10-38833	20 - 25	½	M10	20 x 1.5	1000	69	21	14	50
<b>BSI-HDG M10 x 26 - 30</b>	10-38834	26 - 30	¾	M10	20 x 1.5	1000	74	23	14	50
<b>BSI-HDG M10 x 32 - 36</b>	10-38835	32 - 36	1	M10	20 x 1.5	1000	81	26	14	50
<b>BSI-HDG M10 x 38 - 43</b>	10-38836	38 - 43	1¼	M10	20 x 1.5	1000	87	30	14	50
<b>BSI-HDG M10 x 44 - 49</b>	10-38837	44 - 49	1½	M10	20 x 1.5	1000	94	33	14	50
<b>BSI-HDG M10 x 50 - 55</b>	10-38838	50 - 55	-	M10	20 x 1.5	1000	103	36	14	50
<b>BSI-HDG M10 x 56 - 61</b>	10-38839	56 - 61	2	M10	20 x 1.5	1000	106	39	10	50
<b>BSI-HDG M10 x 62 - 67</b>	10-38840	62 - 67	-	M10	20 x 2.0	1300	113	42	10	50
<b>BSI-HDG M10 x 68 - 73</b>	10-38841	68 - 73	-	M10	20 x 2.0	1300	123	45	10	50
<b>BSI-HDG M10 x 75 - 80</b>	10-38842	75 - 80	2½	M10	20 x 2.0	1300	128	48	10	50
<b>BSI-HDG M10 x 82 - 86</b>	10-38843	82 - 86	-	M10	20 x 2.0	1300	134	51	10	50
<b>BSI-HDG M10 x 87 - 92</b>	10-38844	87 - 92	3	M10	20 x 2.0	1300	141	54	10	50
<b>BSI-HDG M10 x 95 - 102</b>	10-38845	95 - 102	3½	M10	20 x 2.5	2150	158	58	10	50
<b>BSI-HDG M10 x 108 - 116</b>	10-38846	108 - 116	4	M10	20 x 2.5	2150	170	65	10	25
<b>BSI-HDG M10 x 121 - 127</b>	10-38847	121 - 127	-	M10	20 x 2.5	2150	185	70	10	25
<b>BSI-HDG M10 x 131 - 141</b>	10-38848	131 - 141	5	M10	20 x 2.5	2150	195	77	10	25
<b>BSI-HDG M10 x 159 - 163</b>	10-38849	159 - 163	-	M10	20 x 2.5	2150	215	88	10	25
<b>BSI-HDG M10 x 165 - 169</b>	10-38850	165 - 169	6	M10	20 x 2.5	2150	226	91	10	25
<b>BSI-HDG M10 x 192 - 202</b>	10-38851	192 - 202	-	M10	20 x 3.0	3000	265	107	10	25
<b>BSI-HDG M10 x 210 - 220</b>	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.



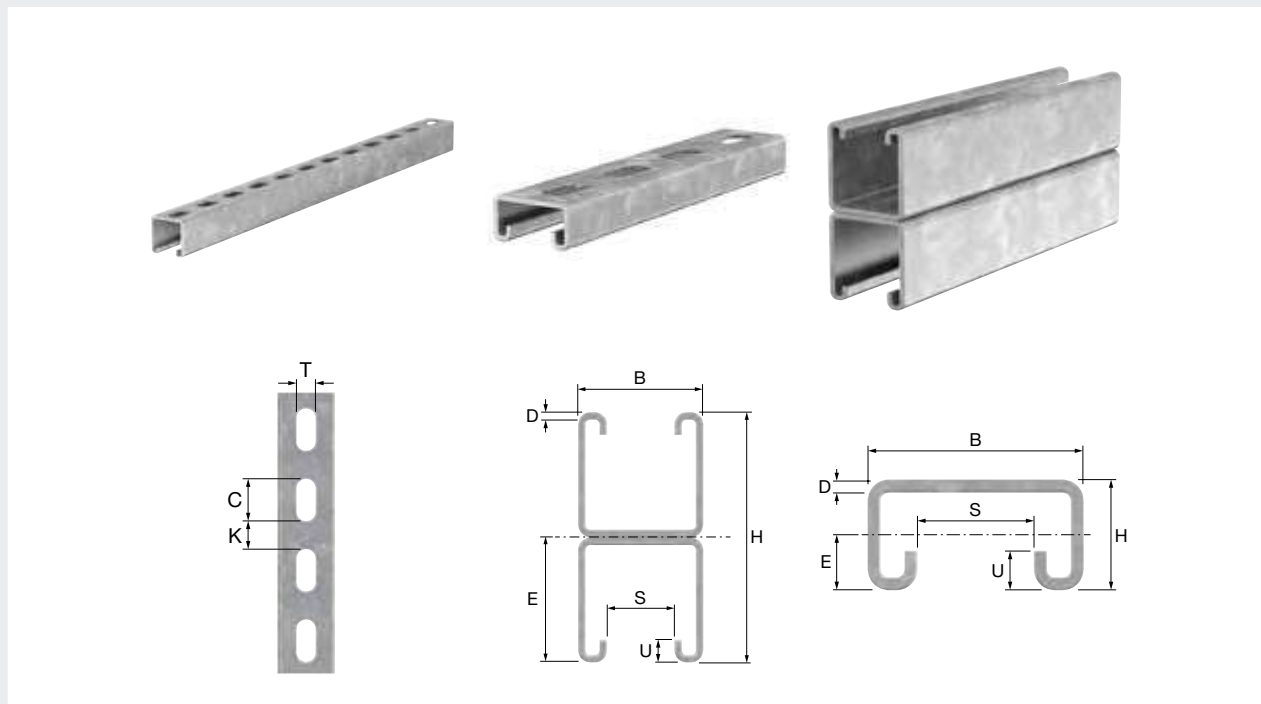
type	article number	Ø pipe		connec- tion	strip dimensi- ons [mm]	max. working load [N]	dimensions [mm]			
		ext. [mm]	nom. [°]				A	B	C	
<b>BSU-HDG M10 x 15 - 19</b>	10-38860	15 - 19	3/8	M10	20 x 1.5	1000	53	9	14	50
<b>BSU-HDG M10 x 20 - 25</b>	10-38861	20 - 25	1/2	M10	20 x 1.5	1000	60	12	14	50
<b>BSU-HDG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



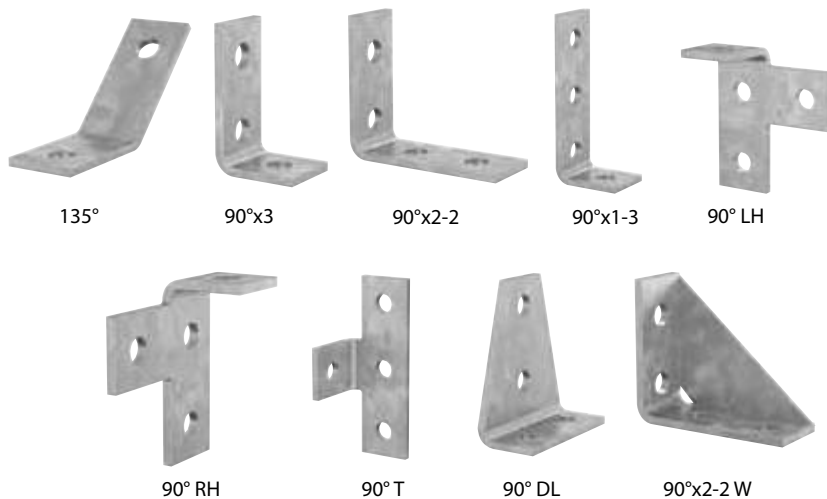
type	article number	dimensions [mm]				max. load at end point [N]	
		W	H	Th	L		
<b>STRUT R41 x 300</b>	10-83030	41	41	2.5	300	1800	10
<b>STRUT R41 x 600</b>	10-83060	41	41	2.5	600	900	10


## STRUT rail connectors

### STRUT HV Mounting Angles

To connect STRUT rails in every angle.

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

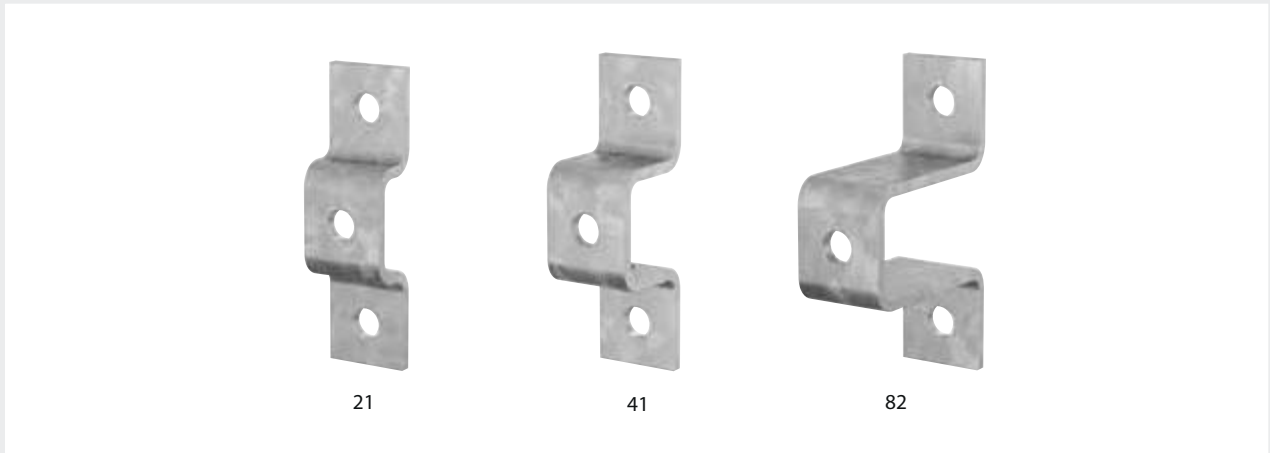



type	article number	number of holes (Ø 14 mm)		shape	
<b>STRUT HV 135° x 1-1</b>	10-83615	2	1 - 1	135°	50
<b>STRUT HV 90° T x 3-1</b>	10-83609	4	3 - 1	T-shape / 90°	25
<b>STRUT HV 90° DL x 3-1</b>	10-83610	4	2 - 2	Delta / 90° / large	25
<b>STRUT HV 90° x 1-2</b>	10-83603	3	1 - 2	90°	50
<b>STRUT HV 90° x 2-2</b>	10-83605	4	2 - 2	90°	50
<b>STRUT HV 90° x 1-3</b>	10-83606	4	1 - 3	90°	50
<b>STRUT HV 90° LH x 2-1-1</b>	10-83607	4	2 - 1 - 1	T-shape / 90° / Left handed	25
<b>STRUT HV 90° RH x 2-1-1</b>	10-83608	4	2 - 1 - 1	T-shape / 90° / Right handed	25
<b>STRUT HV 90° W x 2-2</b>	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)	
<b>STRUT UK 21</b>	10-83800	21	3	25
<b>STRUT UK 41</b>	10-83801	41	5	25
<b>STRUT UK 82</b>	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	
<b>STRUT RV L3</b>	10-83506	3	L	50
<b>STRUT RV T4</b>	10-83507	4	T	50

## STRUT RL Rail Extensions

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



type	article number	rail type	finish	
<b>STRUT RL 21 - 41 EXT</b>	10-83807	21 - 41	external	20

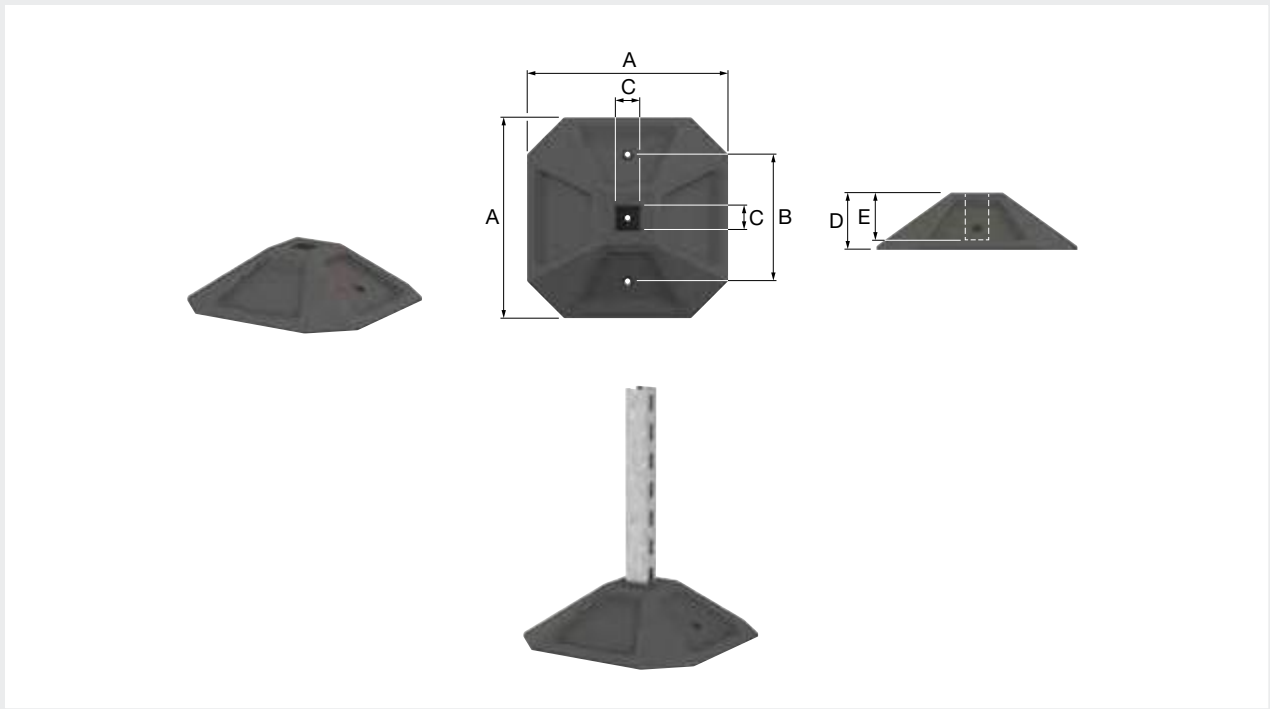
# STRUT rooftop support set


## 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 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 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	
<b>STRUT VL E2</b>	10-83305	21 / 41	3	Single layer	25
<b>STRUT VL DE</b>	10-83307	41	6	Single delta	10
<b>STRUT VL DD</b>	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 [mm]	bolt	
<b>STRUT SP M8</b>	10-83002	10	M8	200
<b>STRUT SP M10</b>	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	
<b>STRUT Tap bolt M8 x 20</b>	10-83940	M8	20	100
<b>STRUT Tap bolt M8 x 35</b>	10-83942	M8	35	100
<b>STRUT Tap bolt M8 x 55</b>	10-83944	M8	55	100
<b>STRUT Tap bolt M10 x 20</b>	10-83941	M10	20	100
<b>STRUT Tap bolt M10 x 35</b>	10-83943	M10	35	100
<b>STRUT Tap bolt M10 x 55</b>	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.

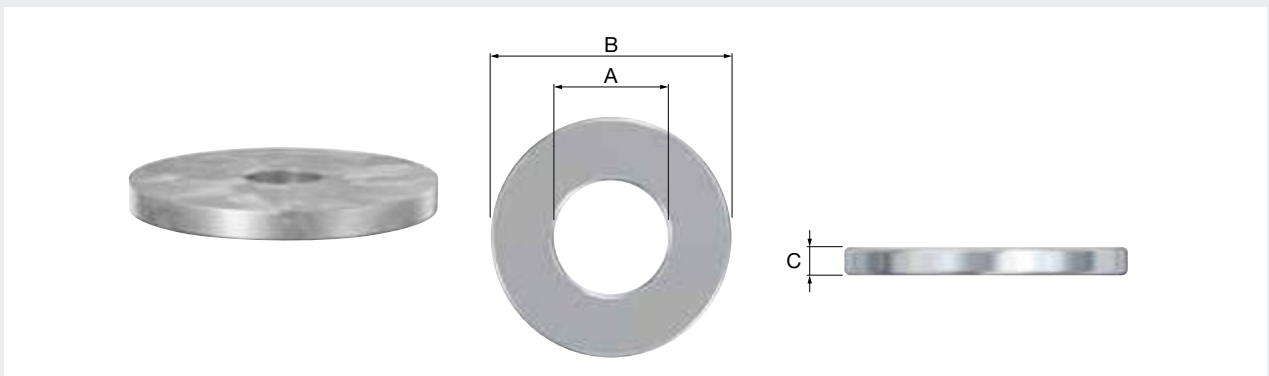
type	article number	connection	
<b>STRUT Nut M8</b>	10-83935	M8	200
<b>STRUT Nut M10</b>	10-83936	M10	200


## STRUT washers

For easy mounting of a suspension in a STRUT Rail.

### STRUT Sluitringen

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



type	article number	connection	dimensions [mm]			
			A	B	C	
<b>STRUT Sluitring 8</b>	10-83930	M8	8,4	30	1,5	200
<b>STRUT Sluitring M10</b>	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	connection	length	
<b>STRUT Threaded rod M8 x 1000</b>	10-83950	M8	1000	25
<b>STRUT Threaded rod M10 x 1000</b>	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.

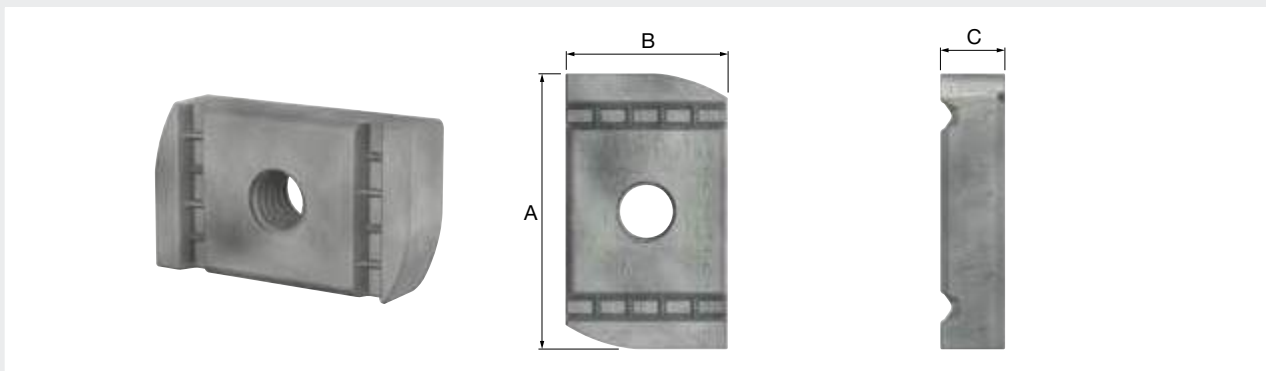
- Hot-dip galvanized according to BS EN 1461:2009.


type	article number	connection	
<b>STRUT HBS M8 x 40</b>	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	
<b>STRUT Sliding Nut M8</b>	10-83921	M8	34.5	20	8	100
<b>STRUT Sliding Nut M10</b>	10-83922	M10	34.5	20	9	100

## STRUT profile fixings

### STRUT RP Profile Fixings

- Hot-dip galvanized according to BS EN 1461:2009.
- Beam clamps should be used in pairs to achieve maximum working load.




EXT



U110



U150

Type	article number	rail type	finish	max. working load (pair) [N]	
<b>STRUT RP EXT</b>	10-83400	21-41	External, with clamping plate in rail slot	2700	100
<b>STRUT RP U110</b>	10-83411	21-41	U-shape (L = 110), M10	4500	25
<b>STRUT RP U150</b>	10-83415	82	U-shape (L = 150), M10	4500	25



The image features a collection of stainless steel mounting hardware against a red and white background. On the left, a large, curved stainless steel bracket is shown in profile, with a bolt and nut assembly attached to its side. In the foreground, a long, rectangular stainless steel bar with several oval-shaped mounting holes is visible. To the right, a smaller stainless steel component, possibly a bracket or a connector, is shown with a circular hole. The word 'FLAMCO' is embossed on the side of the rectangular bar and the smaller component. The overall aesthetic is industrial and clean.

FastFix

stainless  
steel  
mounting  
materials

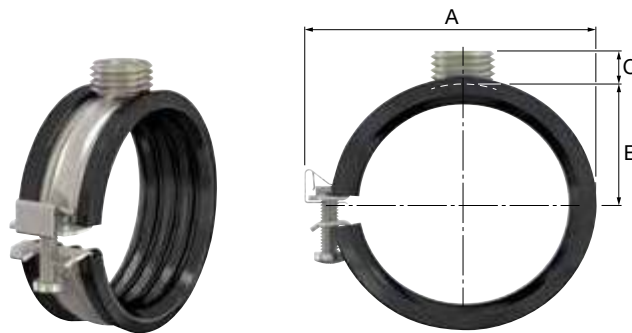
## clips


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 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.



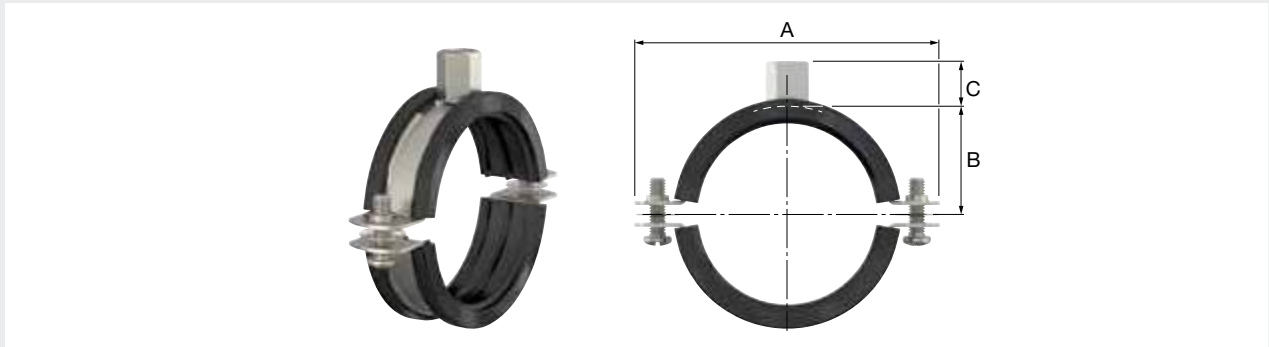
type	article number	Ø pipe		connection	strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		nom. ["]	ext. [mm]				A	B	C	
<b>BSA 14 - 16 SST</b>	10-51951	-	14 - 16	G½" M/M10	25 x 1.75	1000	47	15	10	50
<b>BSA 17 - 19 SST</b>	10-51952	¾	17 - 19	G½" M/M10	25 x 1.75	1000	50	17	10	50
<b>BSA 20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

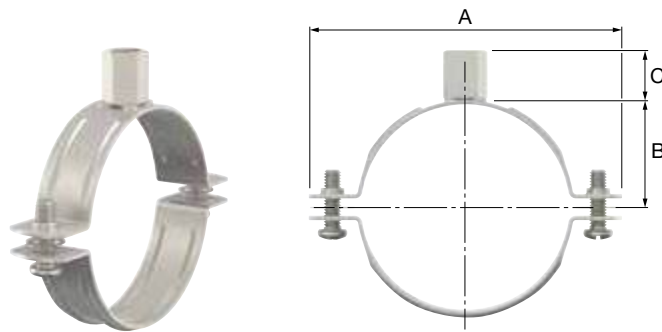



type	article number	Ø pipe		connec- tion	strip dimensions [mm]	max. working load [N]	dimensions [mm]			
		nom. ["]	ext. [mm]				A	B	C	
<b>BRS-A 8 - 10 SST</b>	10-38450	1/8	8 - 10	M8/10	20 x 1.5	1000	53	13	16	50
<b>BRS-A 12 - 14 SST</b>	10-38451	1/4	12 - 14	M8/10	20 x 1.5	1000	58	15	16	50
<b>BRS-A 15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

## BRS clips

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


# rail

## R . Rail

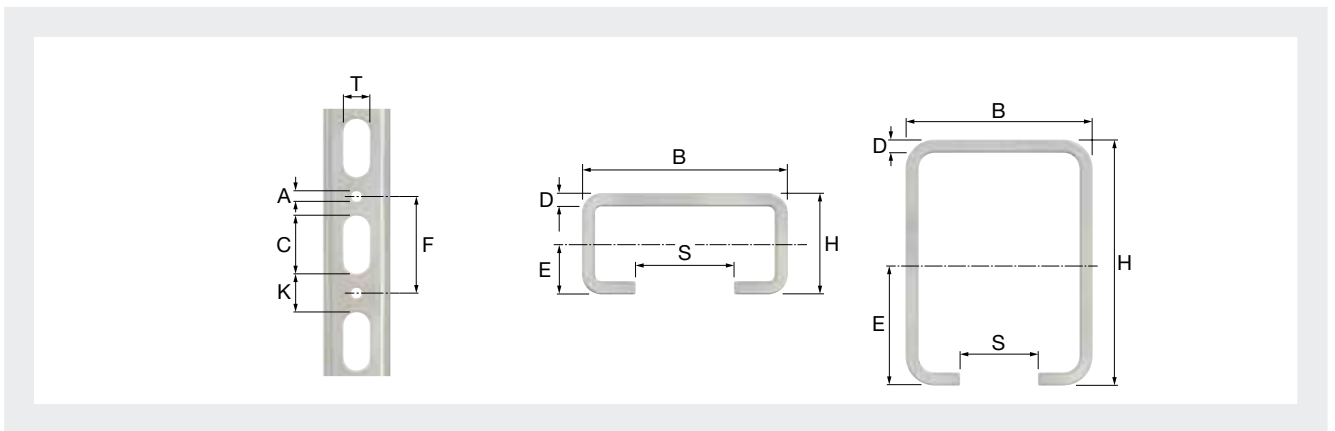


For fast and easy mounting of one or more suspensions or wall fixings.

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

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

### Dimensions R . Rail



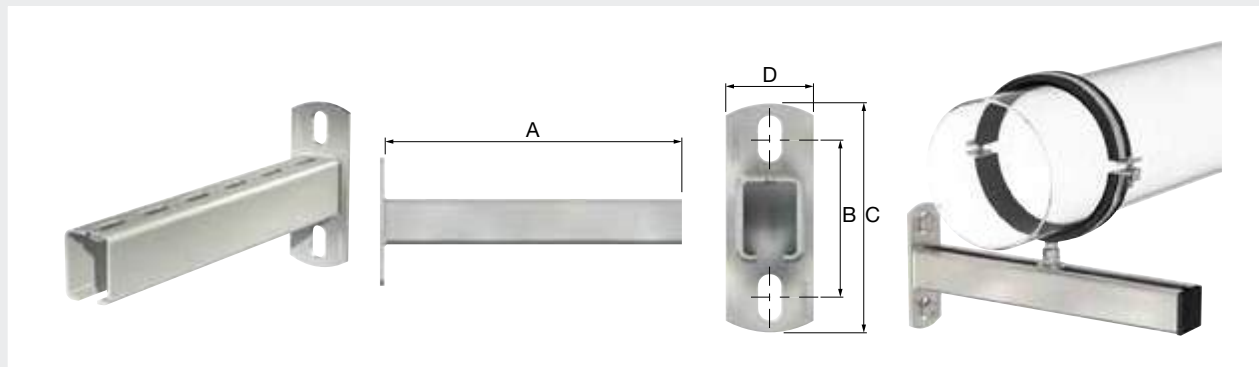
type	dimensions [mm]									
	H	B	A	C	D	E	F	K	S	T
<b>R1</b>	15	30.5	9	30	2.0	8.0	50	20	14.5	10.5
<b>R4</b>	46	35.0	9	30	2.5	23.2	50	20	14.5	13.5

## rail consoles

### R . x ... Rail Consoles

For suspension or support directly on the wall.

- Stainless steel AISI 304.



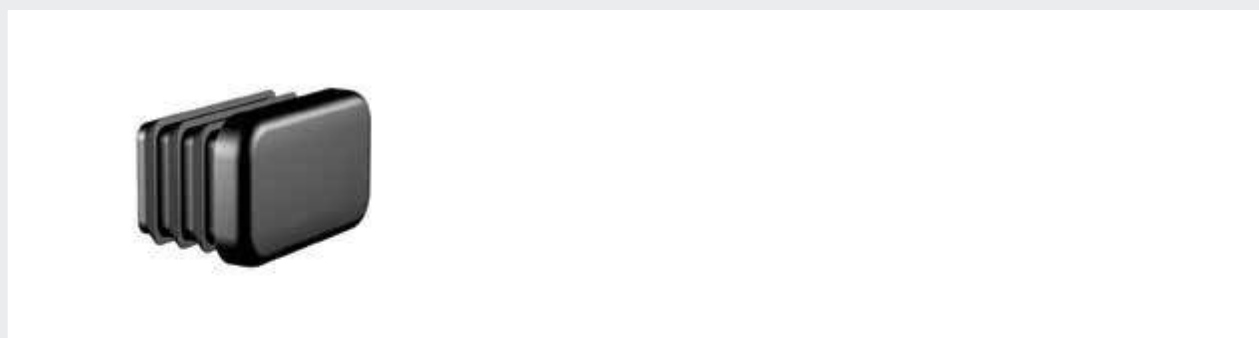
type	article number	dimensions [mm]				📦
		A	B	C	D	
<b>R1 x 200 SST</b>	10-71672	200	80	115	40	10
<b>R1 x 300 SST</b>	10-71673	300	80	115	40	10
<b>R1 x 400 SST</b>	10-71674	400	80	115	40	10
<b>R4 x 300 SST</b>	10-71683	300	90	130	50	10
<b>R4 x 500 SST</b>	10-71686	500	90	130	50	10

## rail end caps

### RD Rail End Cap

For a neat finish to FastFix rail R1 - 8 and rail consoles. (For a neat finish to 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	
<b>RD 1</b>	10-50501	R1	12	15	5	30	100
<b>RD 2</b>	10-50502	R2 / R3	12	20	5	35	100
<b>RD 4</b>	10-50504	R4	14	35	5	46	100
<b>RD 6</b>	10-50506	R6	14	41	5	60	100
<b>RD 7</b>	10-50507	R7	14	40	5	40	100
<b>RD 8</b>	10-50508	R8	14	20	5	40	100


## backplates

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

### GP backplates

- Available in stainless steel AISI 304.



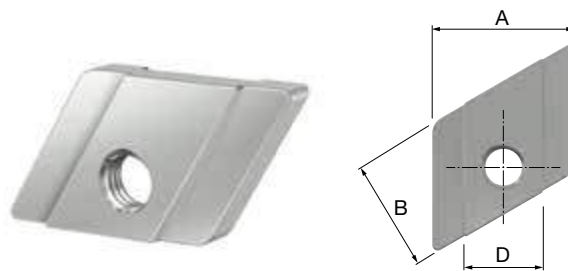
type	article number	connection	dimensions [mm]					slotted hole	
			A	B	H	D	E		
<b>GP 8 - 80 x 30 SST AISI 304</b>	10-39445	M8	54	30	80	11	3	9 x 16	100
<b>GP 10 - 80 x 30 SST AISI 304</b>	10-39446	M10	54	30	80	13	3	9 x 16	100
<b>GP 1/2 - 80 x 30 SST AISI 316</b>	10-39447	1/2" F	54	30	80	18	3	9 x 16	50
<b>GP 10 - 1/2 - 80 x 30 SST AISI 316</b>	10-39448	G1/2" M/M10	54	30	80	11	3	9 x 16	50


## rail support nuts

### M ..s Rail Support Nuts - Stainless Steel

For easy mounting of a suspension in FastFix rail.

- Stainless steel AISI 304.

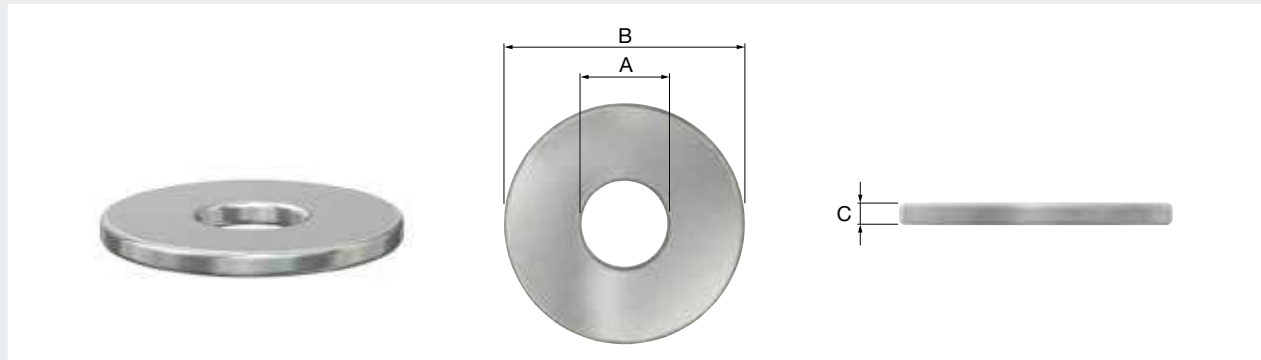



type	article number	connection	dimensions [mm]			
			A	B	D	
<b>M8s SST</b>	10-80322	M8	25	20	13.5	100
<b>M10s SST</b>	10-80323	M10	25	20	13.5	100

## washers

### S Washers - Stainless Steel

- Stainless steel AISI 304.




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

## nuts

### M Nuts - Stainless Steel



- Stainless steel AISI 304.

type	article number	connection	
<b>M8 SST</b>	10-70222	M8	100
<b>M10 SST</b>	10-70223	M10	100

## threaded tube

### Threaded tube - Stainless steel



- Stainless steel AISI 316.

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


## 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]	
<b>D 8 SST</b>	10-70052	1000	M8	4500	50
<b>D 10 SST</b>	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		
<b>HO 8 x 80 SST</b>	10-70621	30	37	80	M8	100
<b>HO 8 x 100 SST</b>	10-70624	40	47	100	M8	100
<b>HO 10 x 80 SST</b>	10-70622	20	47	80	M10	100
<b>HO 10 x 100 SST</b>	10-70625	30	57	100	M10	100

## 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

## 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.eu](http://www.aalberts-ips.eu)

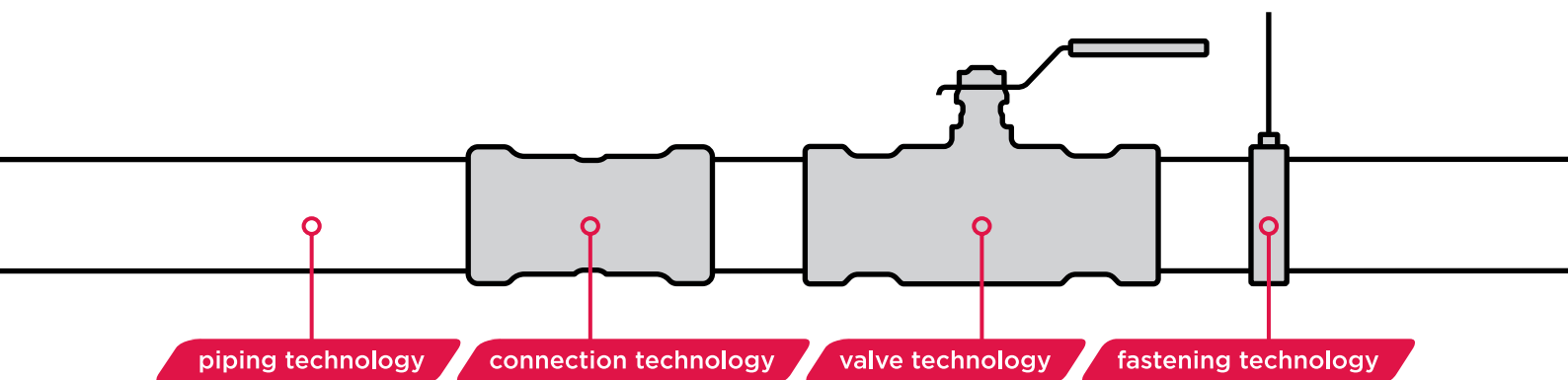
Would you like to make an appointment to meet an account manager in your region or receive advice and support from one of our experts?

Please contact:

**Aalberts integrated piping systems Customer Service**

**+31 (0)35 68 84 330**

**[salesupport.emea@aalberts-ips.com](mailto:salesupport.emea@aalberts-ips.com)**



**Aalberts integrated piping systems B.V.**

Oude Amersfoortseweg 99 / 1212 AA Hilversum

P.O. Box 498 / 1200 AL Hilversum

The Netherlands

[www.aalberts-ips.eu](http://www.aalberts-ips.eu)