

10.



Universal Clips

Whether you need ceiling, wall or floor mounted clips, Flamco has the solution. We offer a wide range of universal mounting clips with a variety of closures, connections and finishes. With or without sound absorbing rubber lining. For the smallest to the largest pipes. Flamco universal clips make sure you can mount every pipe, everywhere.

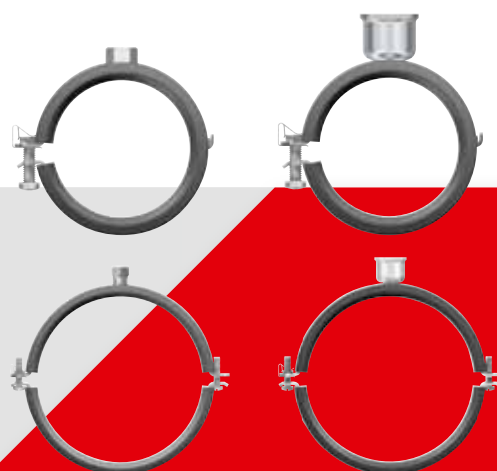
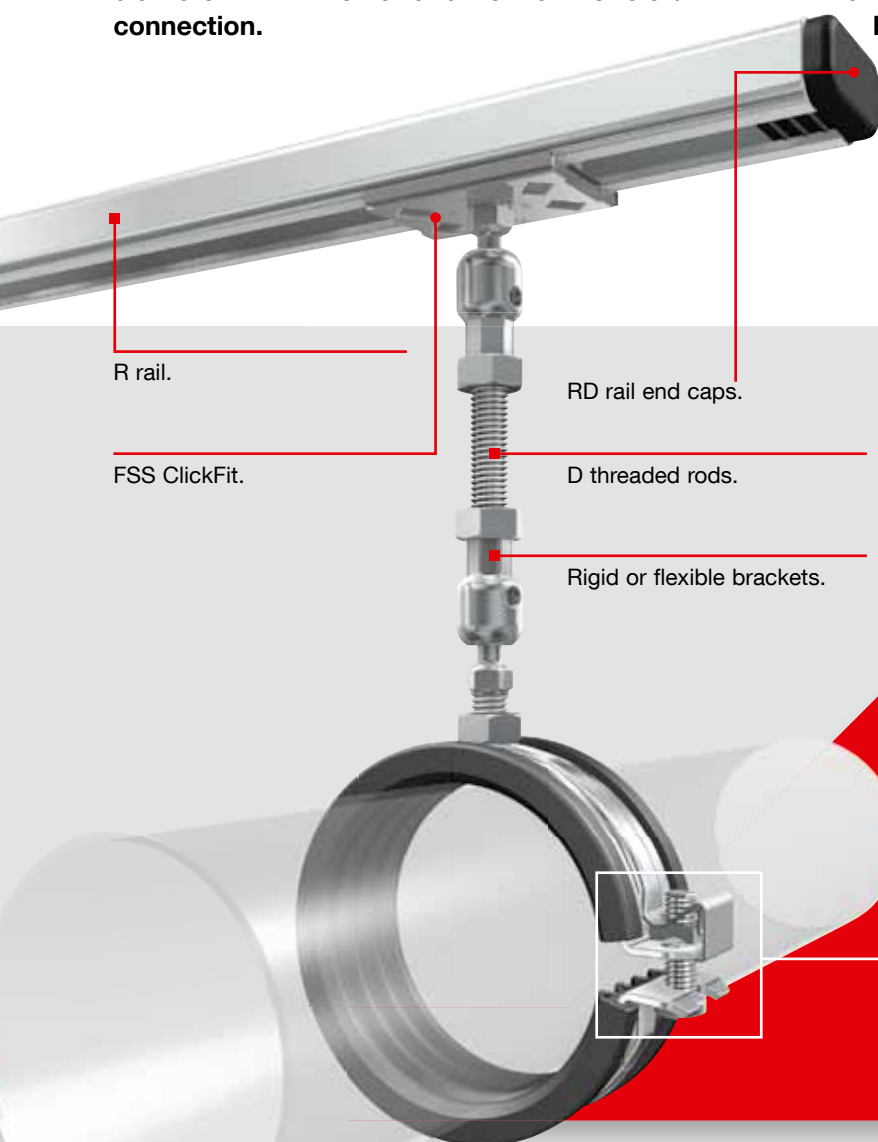


Choose the rubber lined BS clip that suits every type of pipe

Flamco offers you a wide range of BSA clips for all types of pipe. The BSA range extends from diameter 12 mm to 16" and from a M 8 to a ½" connection.

They are also available with various types of rubber for special applications.

Flamco BS clips can be fitted universally and can be mounted either horizontally or vertically.



BSA clips are available with a number of different connections.

The lock bolt has a combined slot/Phillips head.

The click-spring closure makes assembly easy, without the need for tools, and without the possibility of the pipe coming loose from the clip.

Save time with the click-spring closure

Thanks to the upper spring fitting coupled with the bent shape of the lip, the clip remains closed. It is still possible to re-position the pipe at this point. The process is completed by tightening the lock bolt which holds the pipe tightly.



1. When it is open, the pipe can be positioned in the bracket.

2. Click shut: the top of the bolt will automatically slide over the lip.

3. Fasten the pipe in place by tightening the nut.



BSA

Benefits of BSA clips:

- Quick assembly and installation thanks to the patented 'click-spring' closure.
- Very close fitting, making it possible to mount pipes directly to the ceiling.
- Thick and wide material, so the clip is both very stable and rigid.
- Rubber lining with four air chambers for optimum noise suppression (19 dB(A)).
- Rubber lining clamped to the bracket. Should the pipe move in any way, the rubber will not separate from the clip: it will remain in place at all times.
- The rubber has high temperature resistance: from -40 °C to +120 °C.



BSA-S

Extra feature of BSA-S clips:

- Special silicon rubber, temperature-resistant from -60 °C to +250 °C.



BSA-G

Extra feature of BSA-G clips:

- Fitted with smooth rubber for use with plastic pipes.
- The spacer in the click-spring fastening prevents the clip from jamming.



BSA CLICK-IN

Extra features of BSA Click-in:

- Part of the Flamco Smart System.
- No more de-burring of the threaded rod.
- Insert threaded end into nut - no need to screw in.
- All you need to do is twist the bracket to the correct position.
- Fitted in no time.
- Patented system.



BSB

BSB clips

- One-piece clip with noise suppression rubber lining.
- With M 8 threaded connection.
- Dimensions ranging from 1/8" to 2".
- Quick-release system.
- Suitable for short installation dimensions; bolt has a slot/Phillips head.
- A range of sizes, each KIWA-approved.

kiwa



BSI

BSI clips

- With noise suppressing rubber lining.
- Rigidity provided by the reinforcing grooves.
- Combined M 8/10 and M 10/12 connection.
- Suitable for short installation dimensions; bolt has a slot/Phillips head.
- Two bolts with non-slip washer.



BSI-WH

BSI-WH clips

- BSI clip, with an extra hook connection.
- With combined M 8/10 connection.

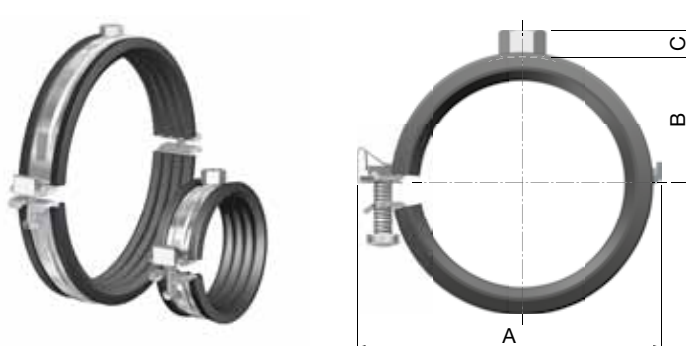


FOR ALL TYPES OF PIPE

BSA M 8 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.

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



Type	Ø Pipe		Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]			A [mm]	B [mm]	C [mm]		
BSA M 8 x 12 - 13.5	12 - 13.5	1/4"	25 x 1.75	1300	45	14	8	100	39200
BSA M 8 x 14 - 16	14 - 16	-	25 x 1.75	1300	47	15	8	100	39201
BSA M 8 x 17 - 19	17 - 19	3/8"	25 x 1.75	1300	50	17	8	100	39202
BSA M 8 x 20 - 24	20 - 24	1/2"	25 x 1.75	1300	54	19	8	100	39203
BSA M 8 x 25 - 28	25 - 28	3/4"	25 x 1.75	1300	59	21	8	100	39204
BSA M 8 x 29 - 33	29 - 33	-	25 x 1.75	1300	63	23	8	100	39205
BSA M 8 x 33 - 37	33 - 37	1"	25 x 1.75	1300	70	27	8	100	39206
BSA M 8 x 38 - 42	38 - 42	1 1/4"	25 x 1.75	1300	78	31	8	100	39207
BSA M 8 x 44.5 - 49	44.5 - 49	1 1/2"	25 x 1.75	1300	83	34	8	50	39208
BSA M 8 x 50 - 54	50 - 54	-	25 x 1.75	1300	90	37	8	50	39209
BSA M 8 x 56 - 60	56 - 60	2"	25 x 1.75	1300	96	40	8	50	39210
BSA M 8 x 62 - 64	62 - 64	-	25 x 2.75	2000	119	43	8	25	39550
BSA M 8 x 68 - 73	68 - 73	-	25 x 2.75	2000	126	46	8	25	39551
BSA M 8 x 75 - 80	75 - 80	2 1/2"	25 x 2.75	2000	133	50	8	25	39552
BSA M 8 x 82 - 86	82 - 86	-	25 x 2.75	2000	139	53	8	25	39553
BSA M 8 x 89 - 91	89 - 91	3"	25 x 2.75	2000	145	56	8	25	39554
BSA M 8 x 95 - 102	95 - 102	3 1/2"	25 x 2.75	2000	157	62	8	25	39556
BSA M 8 x 108 - 116	108 - 116	4"	25 x 2.75	2000	168	67	8	25	39558



BSA M 8/10 Clips

- Similar to the BSA M 8 clips, but with a combined M 8/10 connection.

Type	Ø Pipe		Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]			A [mm]	B [mm]	C [mm]		
BSA M 8/10 x 12 - 13.5	12 - 13.5	1/4"	25 x 1.75	1300	45	14	16	100	39300
BSA M 8/10 x 14 - 16	14 - 16	-	25 x 1.75	1300	47	15	16	100	39301
BSA M 8/10 x 17 - 19	17 - 19	3/8"	25 x 1.75	1300	50	17	16	100	39302
BSA M 8/10 x 20 - 24	20 - 24	1/2"	25 x 1.75	1300	54	19	16	100	39303
BSA M 8/10 x 25 - 28	25 - 28	3/4"	25 x 1.75	1300	59	21	16	100	39304
BSA M 8/10 x 29 - 33	29 - 33	-	25 x 1.75	1300	63	23	16	100	39305
BSA M 8/10 x 33 - 37	33 - 37	1"	25 x 1.75	1300	70	27	16	100	39306
BSA M 8/10 x 38 - 42	38 - 42	1 1/4"	25 x 1.75	1300	78	31	16	100	39307
BSA M 8/10 x 44.5 - 49	44.5 - 49	1 1/2"	25 x 1.75	1300	83	34	16	50	39308
BSA M 8/10 x 50 - 54	50 - 54	-	25 x 1.75	1300	90	37	16	50	39309
BSA M 8/10 x 56 - 60	56 - 60	2"	25 x 1.75	1300	96	40	16	50	39310
BSA M 8/10 x 62 - 64	62 - 64	-	25 x 2.75	2000	119	43	16	25	39311
BSA M 8/10 x 68 - 73	68 - 73	-	25 x 2.75	2000	126	46	16	25	39312
BSA M 8/10 x 75 - 80	75 - 80	2 1/2"	25 x 2.75	2000	133	50	16	25	39313
BSA M 8/10 x 82 - 86	82 - 86	-	25 x 2.75	2000	139	53	16	25	39314
BSA M 8/10 x 89 - 91	89 - 91	3"	25 x 2.75	2000	145	56	16	25	39315
BSA M 8/10 x 95 - 102	95 - 102	3 1/2"	25 x 2.75	2000	157	62	16	25	39317
BSA M 8/10 x 108 - 116	108 - 116	4"	25 x 2.75	2000	168	67	16	25	39318
BSA M 8/10 x 121 - 127	121 - 127	-	25 x 2.75	2000	184	71	16	25	39320
BSA M 8/10 x 133 - 141	133 - 141	5"	25 x 2.75	2000	195	78	16	25	39321
BSA M 8/10 x 159 - 162	159 - 162	-	25 x 2.75	2000	220	93	16	25	39323
BSA M 8/10 x 165 - 168	165 - 168	6"	25 x 2.75	2000	227	97	16	25	39324



BSA M 10 Clips

- Similar to the BSA M 8 clips, but with a M 10 connection.

Type	Ø Pipe		Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]			A [mm]	B [mm]	C [mm]		
BSA M 10 x 108 - 116	108 - 116	4"	25 x 2.75	2000	168	67	10	25	39557
BSA M 10 x 121 - 127	121 - 127	-	25 x 2.75	2000	184	71	10	25	39559
BSA M 10 x 133 - 141	133 - 141	5"	25 x 2.75	2000	195	78	10	25	39560
BSA M 10 x 159 - 162	159 - 162	-	25 x 2.75	2000	220	93	10	25	39562
BSA M 10 x 165 - 168	165 - 168	6"	25 x 2.75	2000	227	97	10	25	39563



BSA M 12 Clips

- Similar to the BSA M 8 clips, but with a M 12 connection.

Type	Ø Pipe		Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]			A [mm]	B [mm]	C [mm]		
BSA M 12 x 17 - 19	17 - 19	3/8"	25 x 1.75	1300	50	17	12	50	39272
BSA M 12 x 20 - 24	20 - 24	1/2"	25 x 1.75	1300	54	19	12	50	39273
BSA M 12 x 25 - 28	25 - 28	3/4"	25 x 1.75	1300	59	22	12	50	39274
BSA M 12 x 33 - 37	33 - 37	1"	25 x 1.75	1300	70	27	12	50	39276
BSA M 12 x 38 - 42	38 - 42	1 1/4"	25 x 1.75	1300	78	31	12	50	39277
BSA M 12 x 44.5 - 49	44.5 - 49	1 1/2"	25 x 1.75	1300	83	34	12	50	39278
BSA M 12 x 50 - 54	50 - 54	-	25 x 1.75	1300	90	37	12	50	39279
BSA M 12 x 56 - 60	56 - 60	2"	25 x 1.75	1300	96	40	12	50	39280
BSA M 12 x 62 - 64	62 - 64	-	25 x 2.75	2000	119	43	12	25	39231
BSA M 12 x 68 - 73	68 - 73	-	25 x 2.75	2000	126	46	12	25	39232
BSA M 12 x 75 - 80	75 - 80	2 1/2"	25 x 2.75	2000	133	50	12	25	39233
BSA M 12 x 82 - 86	82 - 86	-	25 x 2.75	2000	139	53	12	25	39235
BSA M 12 x 89 - 91	89 - 91	3"	25 x 2.75	2000	145	56	12	25	39236
BSA M 12 x 95 - 102	95 - 102	3 1/2"	25 x 2.75	2000	157	62	12	25	39237
BSA M 12 x 108 - 116	108 - 116	4"	25 x 2.75	2000	168	67	12	25	39238
BSA M 12 x 121 - 127	121 - 127	-	25 x 2.75	2000	184	71	12	25	39240
BSA M 12 x 133 - 141	133 - 141	5"	25 x 2.75	2000	195	78	12	25	39241
BSA M 12 x 159 - 162	159 - 162	-	25 x 2.75	2000	220	93	12	25	39243
BSA M 12 x 165 - 168	165 - 168	6"	25 x 2.75	2000	227	97	12	25	39244





BSA M 16 Clips

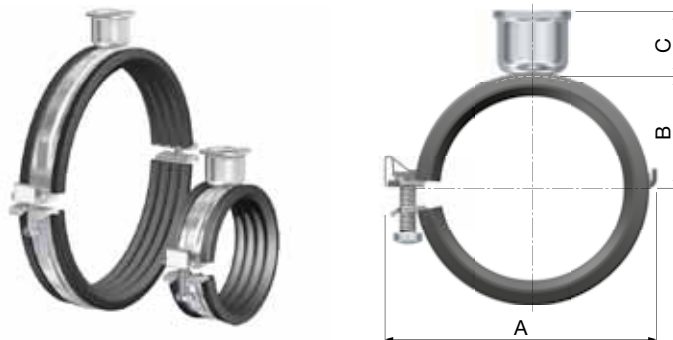
- Similar to the BSA M 8 clips, but with a M 16 connection.

Type	Ø Pipe		Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]			A [mm]	B [mm]	C [mm]		
BSA M 16 x 213 - 219	213 - 219	8"	25 x 3.0	3000	325	122	16	50	39253
BSA M 16 x 267 - 273	267 - 273	10"	50 x 5.0	9000	376	149	16	50	39254
BSA M 16 x 315 - 324	315 - 324	12"	50 x 5.0	9000	427	175	16	50	39255
BSA M 16 x 350 - 356	350 - 356	14"	50 x 5.0	9000	459	191	16	50	39256
BSA M 16 x 400 - 406	400 - 406	16"	50 x 5.0	9000	509	216	16	50	39257



BSA ½ Clips

- Similar to the BSA M 8 clips, but with a ½" connection.
- Designed for heavier installations.

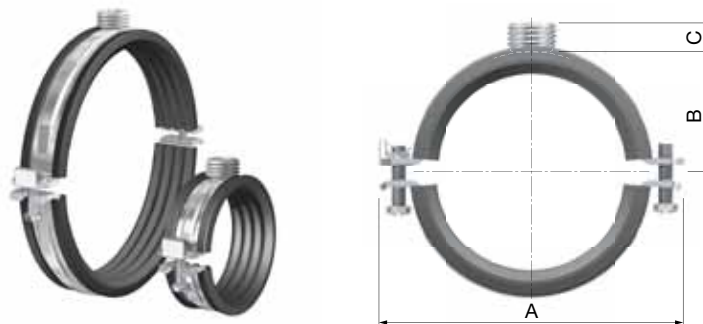


Type	Ø Pipe		Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]			A [mm]	B [mm]	C [mm]		
BSA ½ x 17 - 19	17 - 19	¾"	25 x 1.75	1300	50	17	23	50	39222
BSA ½ x 20 - 24	20 - 24	1/2"	25 x 1.75	1300	54	19	23	50	39223
BSA ½ x 25 - 28	25 - 28	¾"	25 x 1.75	1300	59	21	23	50	39224
BSA ½ x 33 - 37	33 - 37	1"	25 x 1.75	1300	70	27	23	50	39226
BSA ½ x 38 - 42	38 - 42	1 ¼"	25 x 1.75	1300	78	31	23	50	39227
BSA ½ x 44.5 - 49	44.5 - 49	1 ½"	25 x 1.75	1300	83	34	23	50	39228
BSA ½ x 56 - 60	56 - 60	2"	25 x 1.75	1300	96	40	23	50	39230
BSA ½ x 68 - 73	68 - 73	-	25 x 2.75	2000	126	46	23	25	39351
BSA ½ x 75 - 80	75 - 80	2 ½"	25 x 2.75	2000	133	50	23	25	39352
BSA ½ x 89 - 91	89 - 91	3"	25 x 2.75	2000	145	56	23	25	39354
BSA ½ x 95 - 102	95 - 102	3 ½"	25 x 2.75	2000	157	62	23	25	39355
BSA ½ x 108 - 116	108 - 116	4"	25 x 2.75	2000	168	67	23	25	39356
BSA ½ x 133 - 141	133 - 141	5"	25 x 2.75	2000	195	78	23	25	39360
BSA ½ x 159 - 162	159 - 162	-	25 x 2.75	2000	220	93	23	25	39361
BSA ½ x 165 - 168	165 - 168	6"	25 x 2.75	2000	227	97	23	25	39362



BSA 1/2" / M 10 Clips

- Similar to the BSA M 8 clips, but with a combined 1/2" (M) / M 10 (F) connection.



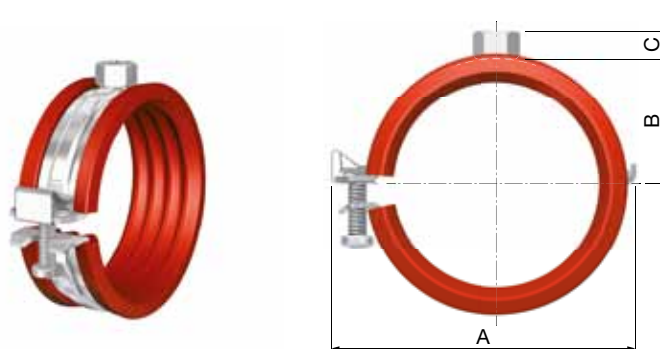
Type	Ø Pipe		Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]			A [mm]	B [mm]	C [mm]		
BSA 1/2" - M 10 x 12 - 13.5	12 - 13.5	1/4"	25 x 1.75	1300	45	14	10	50	51900
BSA 1/2" - M 10 x 14 - 16	14 - 16	-	25 x 1.75	1300	47	15	10	50	51901
BSA 1/2" - M 10 x 17 - 19	17 - 19	3/8"	25 x 1.75	1300	50	17	10	50	51902
BSA 1/2" - M 10 x 20 - 24	20 - 24	1/2"	25 x 1.75	1300	54	19	10	50	51903
BSA 1/2" - M 10 x 25 - 28	25 - 28	3/4"	25 x 1.75	1300	59	21	10	50	51904
BSA 1/2" - M 10 x 29 - 33	29 - 33	-	25 x 1.75	1300	63	23	10	50	51905
BSA 1/2" - M 10 x 33 - 37	33 - 37	1"	25 x 1.75	1300	70	27	10	50	51906
BSA 1/2" - M 10 x 38 - 42	38 - 42	1 1/4"	25 x 1.75	1300	78	31	10	50	51907
BSA 1/2" - M 10 x 44.5 - 49	44.5 - 49	1 1/2"	25 x 1.75	1300	83	34	10	50	51908
BSA 1/2" - M 10 x 50 - 54	50 - 54	-	25 x 1.75	1300	90	37	10	50	51909
BSA 1/2" - M 10 x 56 - 60	56 - 60	2"	25 x 1.75	1300	96	40	10	50	51910
BSA 1/2" - M 10 x 62 - 64	62 - 64	-	25 x 2.75	2000	119	43	10	25	51920
BSA 1/2" - M 10 x 68 - 73	68 - 73	-	25 x 2.75	2000	126	46	10	25	51921
BSA 1/2" - M 10 x 75 - 80	75 - 80	2 1/2"	25 x 2.75	2000	133	50	10	25	51922
BSA 1/2" - M 10 x 82 - 86	82 - 86	-	25 x 2.75	2000	139	53	10	25	51923
BSA 1/2" - M 10 x 89 - 91	89 - 91	3"	25 x 2.75	2000	145	56	10	25	51924
BSA 1/2" - M 10 x 95 - 102	95 - 102	3 1/2"	25 x 2.75	2000	157	62	10	25	51926
BSA 1/2" - M 10 x 108 - 116	108 - 116	4"	25 x 2.75	2000	168	67	10	25	51927
BSA 1/2" - M 10 x 121 - 127	121 - 127	-	25 x 2.75	2000	184	71	10	25	51929
BSA 1/2" - M 10 x 133 - 141	133 - 141	5"	25 x 2.75	2000	195	78	10	25	51930
BSA 1/2" - M 10 x 159 - 162	159 - 162	-	25 x 2.75	2000	220	93	10	25	51932
BSA 1/2" - M 10 x 165 - 168	165 - 168	6"	25 x 2.75	2000	227	97	10	25	51933



BSA-S Clips

BSA-S clips are silicon rubber lined universal clips for use in high temperature applications. 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.

- Suitable for temperatures -60 °C to +250 °C.
- Noise suppressing rubber lining: 17 dB(A)* according to ISO 3822-1
(* To achieve good sound suppression do not overload the fitting).
- Clip electrolytically zinc plated.
- With handy and quick 'click-spring' closure.
- Makes pre-mounting without tools possible.
- BSA-S clips are compatible with pipe sizes as per DIN 2448 and DIN EN 1057.

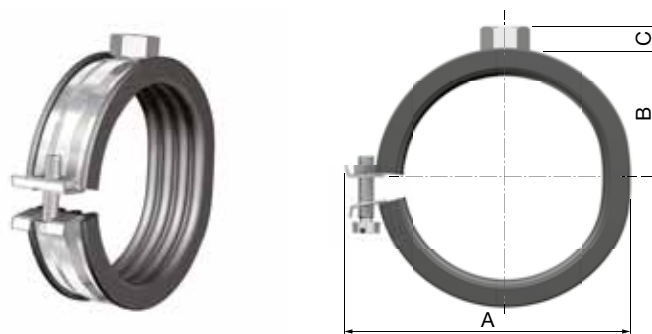


Type	Ø Pipe		Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSA-S M 8 x 12 - 13.5	12 - 13.5	1/4"	M 8	25 x 1.75	1300	45	14	8	50	39110
BSA-S M 8 x 14 - 16	14 - 16	-	M 8	25 x 1.75	1300	47	15	8	50	39111
BSA-S M 8 x 17 - 19	17 - 19	3/8"	M 8	25 x 1.75	1300	50	17	8	50	39112
BSA-S M 8 x 20 - 24	20 - 24	1/2"	M 8	25 x 1.75	1300	54	19	8	50	39113
BSA-S M 8 x 25 - 28	25 - 28	3/4"	M 8	25 x 1.75	1300	59	21	8	50	39114
BSA-S M 8 x 29 - 33	29 - 33	-	M 8	25 x 1.75	1300	63	23	8	50	39115
BSA-S M 8 x 33 - 37	33 - 37	1"	M 8	25 x 1.75	1300	70	27	8	50	39116
BSA-S M 8 x 38 - 42	38 - 42	1 1/4"	M 8	25 x 1.75	1300	78	31	8	50	39117
BSA-S M 8 x 44.5 - 49	44.5 - 49	1 1/2"	M 8	25 x 1.75	1300	83	34	8	50	39118
BSA-S M 8 x 50 - 54	50 - 54	-	M 8	25 x 1.75	1300	90	37	8	50	39119
BSA-S M 8 x 56 - 60	56 - 60	2"	M 8	25 x 1.75	1300	96	40	8	50	39120
BSA-S M 8 x 62 - 64	62 - 64	-	M 8	25 x 2.75	2000	119	43	8	25	39565
BSA-S M 8 x 68 - 73	68 - 73	-	M 8	25 x 2.75	2000	126	46	8	25	39566
BSA-S M 8 x 75 - 80	75 - 80	2 1/2"	M 8	25 x 2.75	2000	133	50	8	25	39567
BSA-S M 8 x 82 - 86	82 - 86	-	M 8	25 x 2.75	2000	139	53	8	25	39568
BSA-S M 8 x 89 - 91	89 - 91	3"	M 8	25 x 2.75	2000	145	56	8	25	39569
BSA-S M 8 x 95 - 102	95 - 102	3 1/2"	M 8	25 x 2.75	2000	157	62	8	25	39570
BSA-S M 10 x 108 - 116	108 - 116	4"	M 10	25 x 2.75	2000	168	67	10	25	39571
BSA-S M 10 x 121 - 127	121 - 127	-	M 10	25 x 2.75	2000	184	71	10	25	39572
BSA-S M 10 x 133 - 141	133 - 141	5"	M 10	25 x 2.75	2000	195	78	10	25	39573
BSA-S M 10 x 159 - 162	159 - 162	-	M 10	25 x 2.75	2000	220	93	10	25	39574
BSA-S M 10 x 165 - 168	165 - 168	6"	M 10	25 x 2.75	2000	227	97	10	25	39575

BSB Clips

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

- One piece clip.
- Noise suppressing rubber lining: 16 dB(A)* according to ISO 3822-1.
(* To achieve good sound suppression do not overload the fitting).
- Clip: electrolytically zinc plated.
- Suitable for temperatures -40 °C to +110 °C.
- BSB carries the KIWA certificate BRL-K 627/01.
- BSB clips are compatible with pipe sizes according to DIN 2448 and DIN EN 1057.
- Safety factor on max. working load(V) = 3.



Type	Ø Pipe		Strip dimensions [mm]	Max. working load [N]	Max. working load [N] -16 dB(A)	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSB M 8 x 1 1/8 - 10	9 - 10	1 1/8"	18 x 1.0	667	40	33	13	8	100	39610
BSB M 8 x 1 1/4 - 12 *	11 - 13	1 1/4"	18 x 1.0	667	40	33	13	8	100	39612
BSB M 8 x 1 1/2 - 15 *	14 - 16	1 1/2"	18 x 1.0	667	40	38	14	8	100	39615
BSB M 8 x 3/8 - 18	17 - 20	3/8"	18 x 1.0	667	40	38	16	8	100	39600
BSB M 8 x 1/2 - 22 *	21 - 24	1/2"	18 x 1.0	667	60	42	17	8	50	39601
BSB M 8 x 3/4 - 28 *	26 - 29	3/4"	18 x 1.0	667	80	48	21	8	100	39602
BSB M 8 x 1 - 35 *	33 - 36	1"	18 x 1.0	667	120	55	23	8	100	39603
BSB M 8 x 1 1/4 - 42 *	41 - 44	1 1/4"	18 x 1.0	667	160	63	28	8	100	39604
BSB M 8 x 1 1/2 - 48	47 - 50	1 1/2"	18 x 1.0	667	200	69	31	8	100	39605
BSB M 8 x 54 *	53 - 56	-	18 x 1.0	667	250	74	34	8	50	39654
BSB M 8 x 2 - 60	60 - 62	2"	18 x 1.0	667	300	77	38	8	50	39606

* Carries with KIWA certificate BRL-K 627/01.

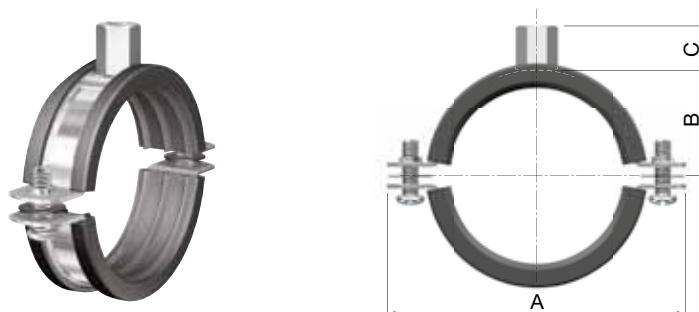
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BSI M 8/10 Clips

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

- Close fitting possible.
- Noise suppressing rubber lining: 17 dB(A)* according to ISO 3822-1
(* To achieve good sound suppression do not overload the fitting).
- Clip: Electrolytically zinc plated.
- Suitable for temperatures -40 °C to +110 °C.
- Bolt with slot and cross head.
- BSI clips are compatible with pipe sizes according to DIN 2448 and DIN EN 1057.
- Safety factor on max. working load(V) = 3.



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



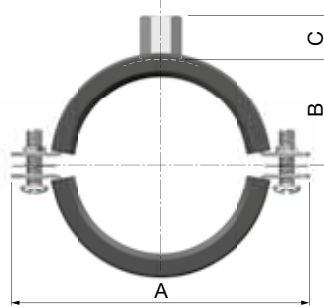
BSI M 10/12 Clips

- Similar to the BSI M 8 clips, but with a combined M 8/10 connection.

Type	Ø Pipe		Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSI M 10/12 x 108 - 116	108 - 116	4"	M 10/12	20 x 2.5	2150	170	65	18	25	39035
BSI M 10/12 x 159 - 163	159 - 163	-	M 10/12	20 x 2.5	2150	215	88	18	25	39038
BSI M 10/12 x 165 - 169	165 - 169	6"	M 10/12	20 x 2.5	2150	226	91	18	25	39039
BSI M 10/12 x 210 - 220	210 - 220	8"	M 10/12	20 x 3.0	3000	274	117	18	25	39034
BSI M 10/12 x 267 - 273	267 - 273	10"	M 10/12	50 x 5.0	9000	-	-	-	-	99044
BSI M 10/12 x 315 - 324	315 - 324	12"	M 10/12	50 x 5.0	9000	-	-	-	-	99045



BSI-WH Clips



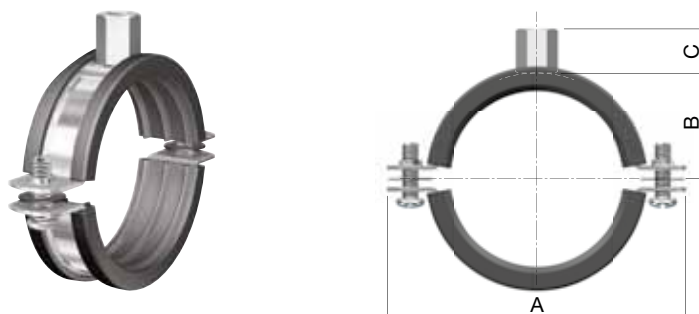
Type	Ø Pipe		Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSI-WH M 8/10 x 12 - 14	12 - 14	1/4"	M 8/10	20 x 1.5	600	58	600	16	50	39025
BSI-WH M 8/10 x 15 - 19	15 - 19	3/8"	M 8/10	20 x 1.5	600	62	18	16	50	39026
BSI-WH M 8/10 x 20 - 25	20 - 25	1/2"	M 8/10	20 x 1.5	600	69	21	16	50	39027
BSI-WH M 8/10 x 26 - 30	26 - 30	3/4"	M 8/10	20 x 1.5	600	74	23	16	50	39028
BSI-WH M 8/10 x 32 - 36	32 - 36	1"	M 8/10	20 x 1.5	600	81	26	16	50	39029
BSI-WH M 8/10 x 38 - 43	38 - 43	1 1/4"	M 8/10	20 x 1.5	600	87	30	16	50	39030
BSI-WH M 8/10 x 44 - 49	44 - 49	1 1/2"	M 8/10	20 x 1.5	600	94	33	16	50	39031
BSI-WH M 8/10 x 50 - 55	50 - 55	-	M 8/10	20 x 1.5	600	103	36	16	50	39032
BSI-WH M 8/10 x 56 - 61	56 - 61	2"	M 8/10	20 x 1.5	600	106	39	16	50	39033
BSI-WH M 8/10 x 62 - 67	62 - 67	-	M 8/10	20 x 2.0	1000	113	42	16	50	38930
BSI-WH M 8/10 x 68 - 73	68 - 73	2 1/4"	M 8/10	20 x 2.0	1000	123	45	16	50	38931
BSI-WH M 8/10 x 75 - 80	75 - 80	2 1/2"	M 8/10	20 x 2.0	1000	128	48	16	50	38932
BSI-WH M 8/10 x 82 - 86	82 - 86	2 3/4"	M 8/10	20 x 2.0	1000	134	51	16	50	38933
BSI-WH M 8/10 x 87 - 92	87 - 92	3"	M 8/10	20 x 2.0	1000	141	54	16	50	38934
BSI-WH M 8/10 x 95 - 102	95 - 102	3 1/2"	M 8/10	20 x 2.5	1000	158	58	16	50	38935
BSI-WH M 8/10 x 108 - 116	108 - 116	4"	M 8/10	20 x 2.5	1000	170	65	16	25	38936



BSI-HDI M 8/10 Clips

BSI-HDI clips are rubber lined, hot dip galvanized universal clips for mounting pipes to the wall or ceiling.

- The clip has one or more strengthening ribs to achieve a strong working load.
- Close fitting possible.
- Stainless steel bolts with slot and cross head and retaining ring.
- Noise-suppressing rubber lining according to DIN 4109.
- (To achieve good sound suppression do not overload the fitting)
- Clip: hot dip galvanizing average > 55µm, min 45 µm.
- Suitable for temperatures - 40 °C to + 120 °C.
- BSI-HDI clips are compatible with pipe sizes according to DIN 2448 and DIN EN 1057.
- Safety factor on max. working load(V) = 3.



Type	Ø Pipe		Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSI-HDI M 8/10 x 8 - 10	8 - 10	1/8"	M 8/10	20 x 1.5	1000	53	13	16	50	38570
BSI-HDI M 8/10 x 12 - 14	12 - 14	1/4"	M 8/10	20 x 1.5	1000	58	15	16	50	38571
BSI-HDI M 8/10 x 15 - 19	15 - 19	3/8"	M 8/10	20 x 1.5	1000	62	18	16	50	38572
BSI-HDI M 8/10 x 20 - 25	20 - 25	1/2"	M 8/10	20 x 1.5	1000	69	21	16	50	38573
BSI-HDI M 8/10 x 26 - 30	26 - 30	3/4"	M 8/10	20 x 1.5	1000	74	23	16	50	38574
BSI-HDI M 8/10 x 32 - 36	32 - 36	1"	M 8/10	20 x 1.5	1000	81	26	16	50	38575
BSI-HDI M 8/10 x 38 - 43	38 - 43	1 1/4"	M 8/10	20 x 1.5	1000	87	30	16	50	38576
BSI-HDI M 8/10 x 44 - 49	44 - 49	1 1/2"	M 8/10	20 x 1.5	1000	94	33	16	50	38577
BSI-HDI M 8/10 x 50 - 55	50 - 55	-	M 8/10	20 x 1.5	1000	103	36	16	50	38578
BSI-HDI M 8/10 x 56 - 61	56 - 61	2"	M 8/10	20 x 1.5	1000	106	39	16	50	38579
BSI-HDI M 8/10 x 62 - 67	62 - 67	-	M 8/10	20 x 2.0	1300	113	42	16	50	38580
BSI-HDI M 8/10 x 68 - 73	68 - 73	2 1/4"	M 8/10	20 x 2.0	1300	123	45	16	50	38581
BSI-HDI M 8/10 x 75 - 80	75 - 80	2 1/2"	M 8/10	20 x 2.0	1300	128	48	16	50	38582
BSI-HDI M 8/10 x 82 - 86	82 - 86	2 3/4"	M 8/10	20 x 2.0	1300	134	51	16	50	38583
BSI-HDI M 8/10 x 87 - 92	87 - 92	3"	M 8/10	20 x 2.0	1300	141	54	16	50	38584
BSI-HDI M 8/10 x 95 - 102	95 - 102	3 1/2"	M 8/10	20 x 2.5	2150	158	58	16	50	38585
BSI-HDI M 8/10 x 108 - 116	108 - 116	4"	M 8/10	20 x 2.5	2150	170	65	16	25	38586
BSI-HDI M 8/10 x 121 - 127	121 - 127	-	M 8/10	20 x 2.5	2150	185	70	16	25	38587
BSI-HDI M 8/10 x 131 - 141	131 - 141	5"	M 8/10	20 x 2.5	2150	195	77	16	25	38588
BSI-HDI M 8/10 x 159 - 163	159 - 163	-	M 8/10	20 x 2.5	2150	215	88	16	25	38589
BSI-HDI M 8/10 x 165 - 169	165 - 169	6"	M 8/10	20 x 2.5	2150	226	91	16	25	38590
BSI-HDI M 8/10 x 192 - 202	192 - 202	-	M 8/10	20 x 3.0	3000	265	107	16	25	38591
BSI-HDI M 8/10 x 210 - 220	210 - 220	8"	M 8/10	20 x 3.0	3000	274	117	16	25	38592



BSH M 8/10 Clips

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

- One piece clip with handy, quick closing mechanism.
- Close fitting possible.
- Noise suppressing rubber lining: 15 dB(A)* according to ISO 3822-1.
(* To achieve good sound suppression do not overload the fitting)
- Electrolytically zinc plated.
- Bolt with slot and cross head.
- Suitable for high loads and temperatures.
- BSH clips are compatible with pipe sizes as per DIN 2448 and DIN EN 1057.
- Safety factor on max. working load(V) = 3.



Type	Ø Pipe		Max. working load [N]	Strip dimensions [mm]		Order Code
	Nom. ["]	Ext. dia. [mm]				
BSH 12 - 14	1/4"	12 - 14	1000	20 x 1.5	50	38360
BSH 15 - 18	3/8"	15 - 18	1000	20 x 1.5	50	38361
BSH 19 - 22	-	19 - 22	1000	20 x 1.5	50	38362
BSH 23 - 26	1/2"	23 - 26	1000	20 x 1.5	50	38363
BSH 27 - 30	3/4"	27 - 30	1000	20 x 1.5	50	38364
BSH 32 - 35	1"	32 - 35	1000	20 x 1.5	50	38365
BSH 36 - 39	-	36 - 39	1000	20 x 1.5	50	38366
BSH 40 - 44	1 1/4"	40 - 44	1000	20 x 1.5	50	38367
BSH 48 - 52	1 1/2"	48 - 52	1000	20 x 1.5	50	38368
BSH 53 - 58	-	53 - 58	1000	20 x 1.5	50	38369
BSH 58 - 61	2"	58 - 61	1000	20 x 1.5	50	38370
BSH 62 - 67	-	62 - 67	1300	20 x 2.0	50	38379
BSH 68 - 74	-	68 - 74	1300	20 x 2.0	50	38371
BSH 75 - 80	2 1/2"	75 - 80	1300	20 x 2.0	50	38372
BSH 81 - 86	-	81 - 86	1300	20 x 2.0	50	38373
BSH 87 - 92	3"	87 - 92	1300	20 x 2.0	50	38374
BSH 100 - 106	3 1/2"	100 - 106	1300	20 x 2.5	50	38375
BSH 108 - 116	4"	108 - 116	1300	20 x 2.5	50	38376
BSH 121 - 127	-	121 - 127	1300	20 x 2.5	50	38377

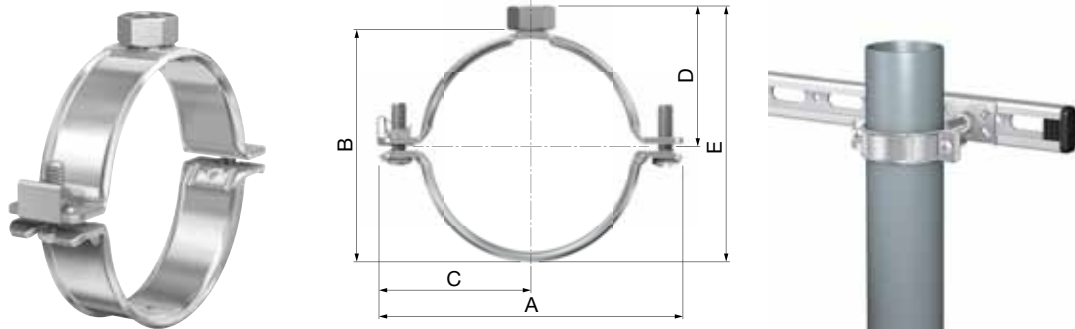


FOR PLASTIC PIPES

BSG M 8 Clips

BSG clips are universal clips for mounting plastic pipes to the wall or ceiling.

- Close fitting possible.
- Clip: electrolytically zinc plated.
- Rounded edges prevent damage to the pipe due to thermal expansion.
- Spring-activated assembly for easy pre-assembly without the use of tools.



Type	Ø Pipe ext. dia. [mm]	Max. working load [N]	Strip dimensions [mm]	Dimensions						Order Code
				A [mm]	B [mm]	C [mm]	D [mm]	E [mm]		
BSG M 8 x 32	32	2000	20 x 2.0	64	42	33	29	50	100	38900
BSG M 8 x 40	40	2000	20 x 2.0	72	50	37	33	58	100	38901
BSG M 8 x 50	50	2000	20 x 2.0	82	60	42	38	68	100	38902
BSG M 8 x 56	56	2000	20 x 2.0	88	66	45	41	74	100	38913
BSG M 8 x 63	63	2000	20 x 2.0	95	73	49	45	81	100	38903
BSG M 8 x 75	75	2000	25 x 2.5	116	87	59	52	95	50	38910
BSG M 8 x 90	90	2000	25 x 2.5	131	102	67	59	110	50	38911
BSG M 8 x 110	110	2000	25 x 2.5	151	122	77	69	130	50	38912
BSG M 8 x 125	125	2000	25 x 2.5	166	137	84	77	145	25	38914
BSG M 8 x 160	160	2000	25 x 2.5	201	172	102	94	180	25	38915
BSG M 8 x 200	200	2000	25 x 2.5	241	212	122	114	220	25	38916

BSG M 10 Clips

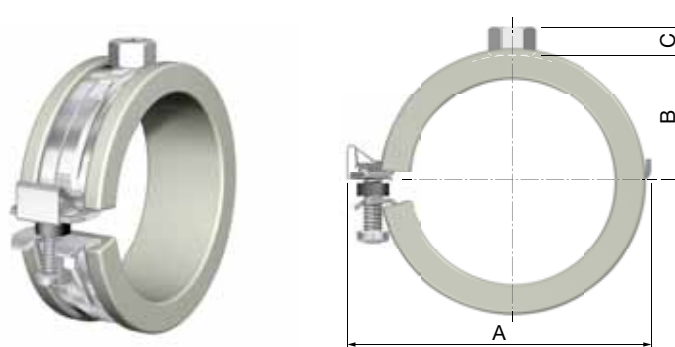
- Similar to the BSG M 8 clips, but with a M 10 connection.

Type	Ø Pipe ext. dia. [mm]	Max. working load [N]	Strip dimensions [mm]	Dimensions						Order Code
				A [mm]	B [mm]	C [mm]	D [mm]	E [mm]		
BSG M 10 x 75	75	2000	25 x 2.5	116	87	59	54	97	50	38904
BSG M 10 x 90	90	2000	25 x 2.5	131	102	67	61	112	50	38905
BSG M 10 x 110	110	2000	25 x 2.5	151	122	77	71	132	50	38906
BSG M 10 x 125	125	2000	25 x 2.5	166	137	84	79	147	25	38907
BSG M 10 x 160	160	2000	25 x 2.5	201	172	102	94	180	25	38908
BSG M 10 x 200	200	2000	25 x 2.5	241	212	122	114	220	25	38909

BSA-G Clips

BSA-G clips are rubber lined universal clips for mounting plastic pipes to the wall or ceiling. The smooth rubber lining incorporates noise suppression qualities and allows the plastic pipe to expand in the clip. The plastic spacing washer prevents overtightening of the clip and the quick closing mechanism makes pre-mounting without tools possible.

- Noise suppression smooth rubber lining.
- Plastic spacing washer.
- Clip: electrolytically zinc plated.
- Quick closing mechanism.



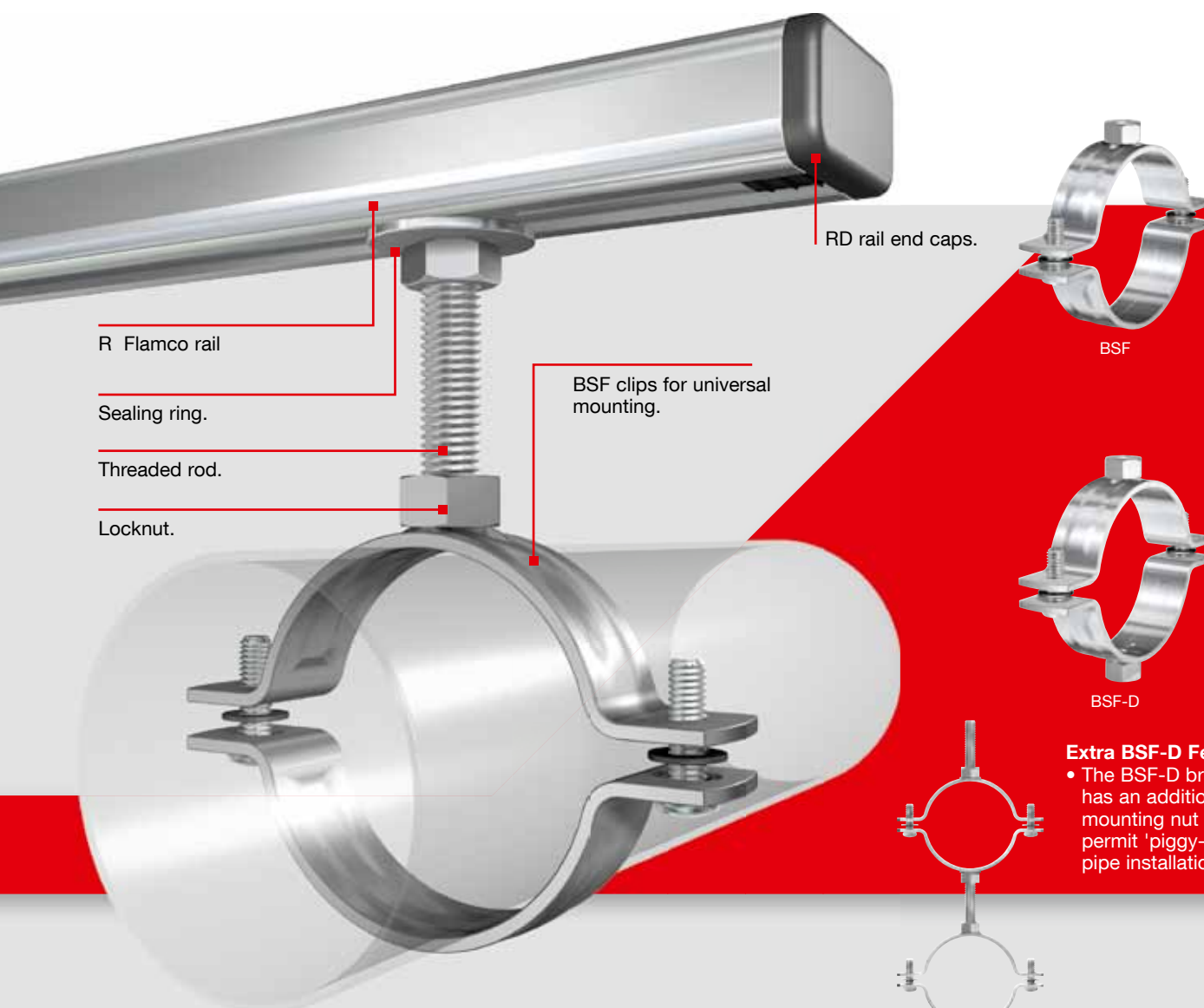
Type	Ø Pipe ext. dia. [mm]	Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
					A [mm]	B [mm]	C [mm]		
BSA-G M 8 x 16	16	M 8	25 x 1.75	1300	50	17	8	50	39151
BSA-G M 8 x 20	20	M 8	25 x 1.75	1300	54	19	8	50	39153
BSA-G M 8 x 25	25	M 8	25 x 1.75	1300	59	21	8	50	39154
BSA-G M 8 x 32	32	M 8	25 x 1.75	1300	63	23	8	50	39155
BSA-G M 8 x 40	40	M 8	25 x 1.75	1300	70	27	8	50	39157
BSA-G M 8 x 50	50	M 8	25 x 1.75	1300	83	34	8	50	39158
BSA-G M 8 x 56	56	M 8	25 x 1.75	1300	90	37	8	50	39159
BSA-G M 8 x 63	63	M 8	25 x 1.75	1300	96	40	8	50	39160
BSA-G M 8 x 75	75	M 8	25 x 2.75	2000	126	46	8	25	39590
BSA-G M 8 x 90	90	M 8	25 x 2.75	2000	145	56	8	25	39593
BSA-G M 10 x 110	110	M 10	25 x 2.75	2000	168	67	10	25	39595
BSA-G M 10 x 125	125	M 10	25 x 2.75	2000	184	71	10	25	39596
BSA-G M 10 x 160	160	M 10	25 x 2.75	2000	220	93	10	25	39598

Clips Without Rubber Lining

Flamco's extensive clip range contains a series of clips without rubber lining. BSF and BSF-D clips are available in a wide range of connections and dimensions from $\frac{3}{8}$ " - 16" and allow installation in situations with minimal clearance.

In addition we supply clips for all kinds of pipe, such as fixed point structures, clips for copper pipes, heavy duty pipes etc..

In our range, you will find just the clip you need.



BSF Clips

- For horizontal or vertical fitting to walls or ceilings.
- Minimal clearance.
- Suitable for heavy duty loading and temperatures.

- Available with M 8, M 10, M 12, M 16, $\frac{1}{2}$ " or $\frac{1}{2}$ "/M 10 connection.
- With no slip washer.
- Dimensions ranging from $\frac{3}{8}$ " to 16".

Extra BSF-D Feature:

- The BSF-D bracket has an additional mounting nut to permit 'piggy-back' pipe installations.

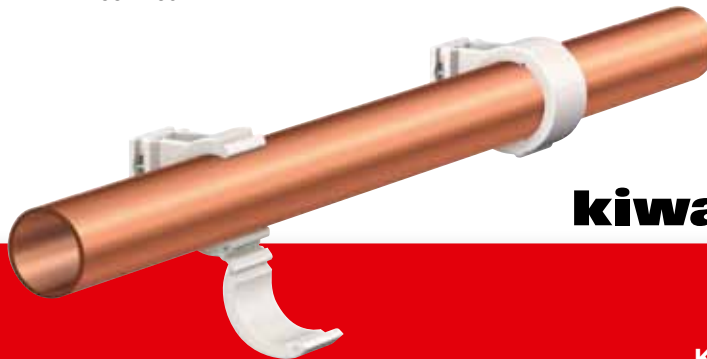
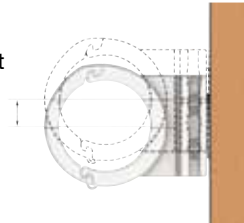


VARIOFIT

Variofit Clips

- For mounting copper or thin-wall steel pipes, or for use in all Flamco rails.
- Hinged 'click' connection with equal centre to centre distance for the Variofit 12 – 15 and 22 – 28.
- KIWA certified.

With a brass lock nut adjustable to approx. 5 mm.



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UB

UB Clips

- Heavy duty clip for attaching steel pipes direct to a Flamco rail or other surface.
- Threaded connections from M 6 to M 16.
- Four nuts included.



KS

KS Clips

- For horizontal or vertical fitting of copper pipes.
- Single and double format.
- Quick assembly and installation
- Suppression of noise due to high quality polypropylene material.
- Available in white and chrome.



KSD



KB

KB Clips

- Suitable for fixed point constructions.
- Suitable for very high loads.
- Specially for mounting heavy pipes e.g. rising mains.





FOR COPPER AND THIN-WALLED STEEL PIPES

Variofit Clips

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 M 6 rod or with wood screws with heads up to 7 mm and can be mounted using Flamco R 1, R 2, R 3 and R 4 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.

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Type	Ø Pipe ext. dia. [mm]	Minimum pull-out force		Dimension H [mm]		Order Code
		Cap open [N]	Cap closed [N]			
Variofit 12	12	100	500	20	500	15112
Variofit 15	15	100	500	20	500	15115
Variofit 22	22	100	700	25	250	15122
Variofit 28	28	100	700	25	250	15128

KS Clips

For horizontal or vertical fitting of copper pipes.

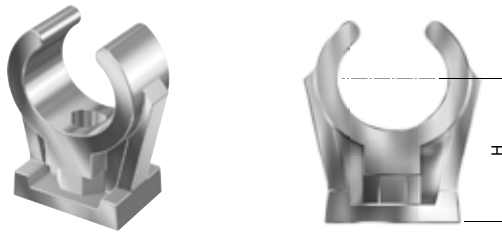
- Fast mounting.
- High quality polypropylene material provides excellent noise damping.
- With brass nut with M 6 connection.
- Suitable for temperatures from -30 °C to 120 °C.



Type	Ø Pipe ext. dia. [mm]	Dimension H [mm]		Order Code
KS 8	8	12	100	62308
KS 10	10	16	100	62310
KS 12	12	17	100	62312
KS 15	15	18	100	62315
KS 18	18	23	100	62318
KS 22	22	26	100	62322
KS 24	24	31	100	62324
KS 28	28	33	25	62328
KS 35 with PUR	35	38	25	62335
KS 42 with PUR	42	42	25	62142

KSC Clips

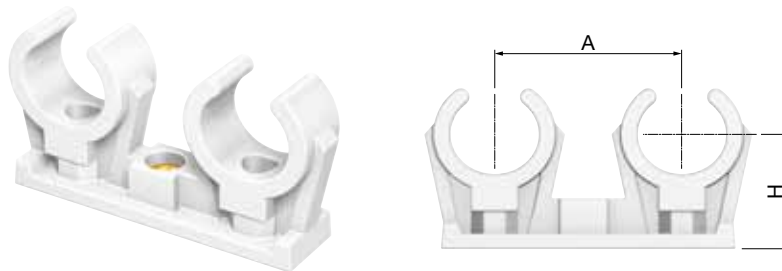
Chromium plated.



Type	Ø Pipe ext. dia. [mm]	Dimension H [mm]		Order Code
KSC 10	10	16	100	62360
KSC 12	12	17	100	62362
KSC 15	15	18	100	62365

KSD Clips

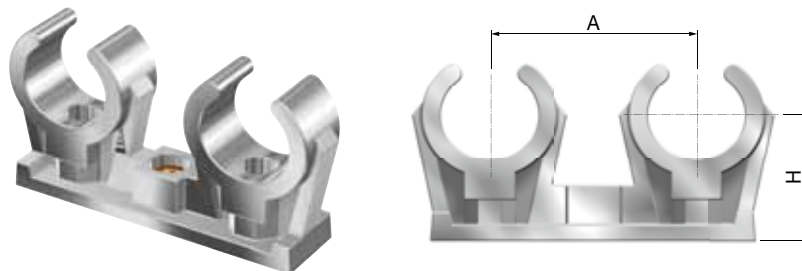
Double clip.



Type	Ø Pipe ext. dia. [mm]	Dimensions			Order Code
		A [mm]	H [mm]		
KSD 8	8	23	15	50	62408
KSD 10	10	29	16	50	62410
KSD 12	12	33	17	50	62412
KSD 15	15	35	18	50	62415
KSD 18	18	38	23	50	62418
KSD 22	22	43	26	50	62422
KSD 28	28	53	33	25	62428

KSDC Clips

Chromium plated double clip.



Type	Ø Pipe ext. dia. [mm]	Dimensions			Order Code
		A [mm]	H [mm]		
KSDC 10	10	29	16	50	62460
KSDC 12	12	33	17	50	62462
KSDC 15	15	35	18	50	62465

Mounting Chilled Water Pipes Made Easy with Flamco Insulated Pipe Clips

In chilled systems pipe clips can contribute to thermal losses thereby compromising the efficiency of the system. Thermal energy is transferred from the pipe to the supporting clips due to thermal conduction.

A simple solution is to use Flamco vapour proof insulated pipe clips that can be bonded as an integral part of the pipe insulation. Flamco produces an extensive range of insulated mounting materials for chilled system pipework. CA, CB and CC clips offer a choice of vapour proof insulating materials, clip type and closing mechanism.



CA Benefits:

- Fitted with elastomer insulation.
- The insulation is an integral part of the clip.
- Hook shape allows easy pre-mounting of pipework.
- The pipe is supported during installation to allow final adjustments.
- Insulation and clip width are identical, with a view to attaining 'precision' bonding.

CB Benefits:

- Suitable for mounting of chilled water pipes with soft thermal insulation.
- Fitted with elastomer insulation and PVC sleeve.
- Universal clip with M8/10 combi nut.
- Ease of installation by quick closing mechanism.
- The bolts are designed not to fall out during installation.

CC Benefits:

- Suitable for mounting chilled water pipes with PIR insulation to the ceiling or wall.
- Hard PIR insulation with aluminium shield.
- Universal clip with M8/10 combi nut.
- Ease of installation by quick closing mechanism.
- The bolts are designed not to fall out during installation.

Table for Selecting the Appropriate CA, CB or CC Clip

Steel pipe EN 10255		Steel pipe (welded / seamless) EN 10220		Copper pipe EN 1057	Plastic pipe	CA			CB		CC	
Pipe dimension						Nominal Insulation thickness			Nom. Insulation thickness		Nom. Insulation thickness	
Ø [inch]	Ø [mm]	Ø [DN]	Ø [mm]	Ø [mm]	Ø [mm]	9	13	19	13	19	30	40
						Order code	Order code	Order code	Order code	Order code	Order code	Order code
		8	13,5	15		39800	39810	39820	39870		39770	39850
3/8	17,2	10	16 17,2	18	16	39801	39811	39821	39871	39886	39771	39851
1/2	21,3	15	20 21,3	22	20	39802	39812	39822	39872	39887	39772	39852
3/4	26,9	20	25 26,9	28	25	39803	39813	39823	39873	39888	39773	39853
1	33,7	25	31,8 33,7	35	32	39804	39814	39824	39874	39889	39774	39854
1 1/4	42,4	32	42,4	42	40	39805	39815	39825	39875	39890	39775	39855
1 1/2	48,3	40	48,3		50	39806	39816	39826	39876	39891	39776	39856
			51	54		39807	39817	39827	39841	39897	39777	39857
			57								39778	39858
2	60,3	50	60,3			39808	39818	39828	39877	39892	39779	39859
			63,5	64	63				39843	39898		
			70								39780	39860
2 1/2	76,1	65	76,1	76,1	75	39809	39819	39829	39878	39893	39781	39861
3	88,9	80	88,9	88,9	90			39830	39879	39894	39782	39862
			108	108							39783	39863
4	114,3	100	114,3		110			39831	39880	39895	39784	39864
			133	133							39785	39865
5	139,7	125	139,7					39832			39786	39866
6	165,1							39833				
8	219	200	219,1					39834				



CA



CB



CC

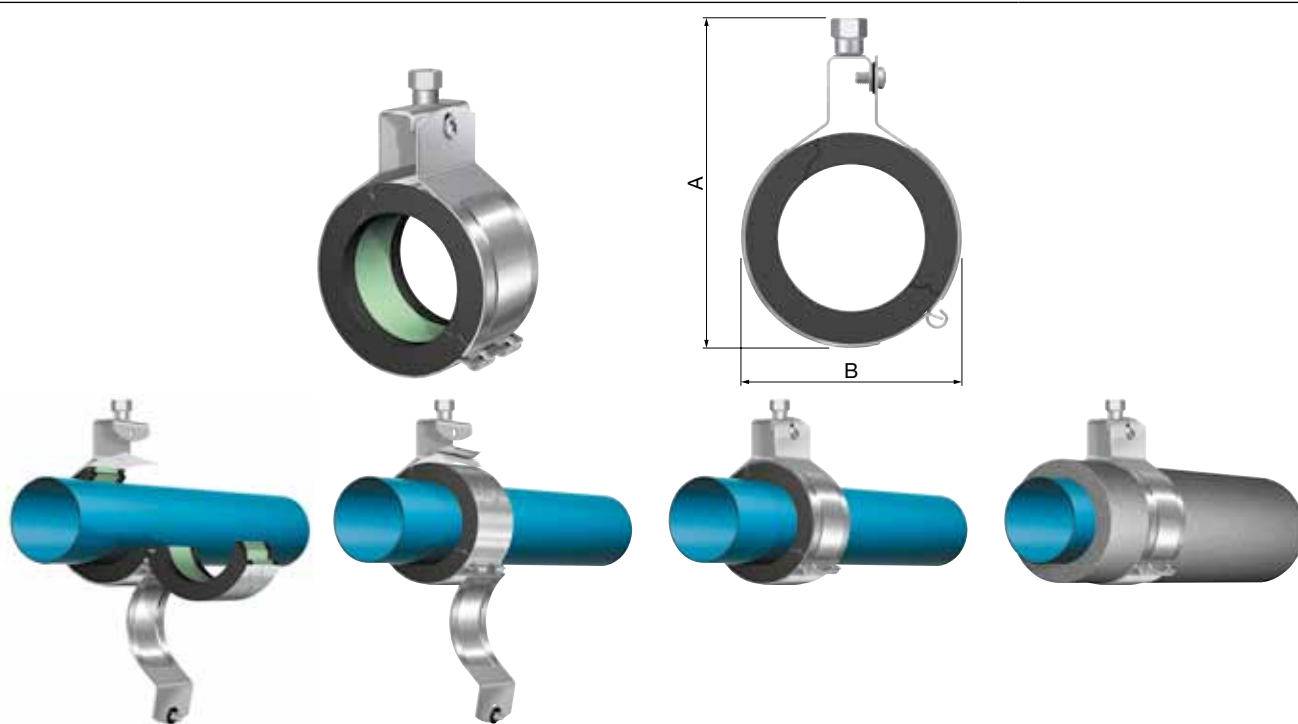


FOR CHILLED WATER PIPES

CA Clips - 9 mm

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

- Clip: electrolytically zinc plated.
- Insulation: 9 mm elastomeric foam with PIR core and coated with an aluminum foil.
- 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.
- Connection: M 8/10 (15 mm up to 2 1/2"), M12 with side connection bolt/nut M 10 (3" up to 8").
- Insulation width: 50 mm, above 140-5": 100 mm.
- Clips fitted with a retaining ring.
- PIR density 120 kg/m³, PIR pressure resistance 1,3 N/mm².
- Temperature resistance: -45 °C up to +105 °C.
- Thermal conductivity: maximal 0.036 w/(m.k).
- Vapour permeability: 7000 µ.
- Fire rating B2 according to DIN 4102/1.
- Fire rating B1 according to 4102/1 as part of a system with tubes, elastomer insulation.

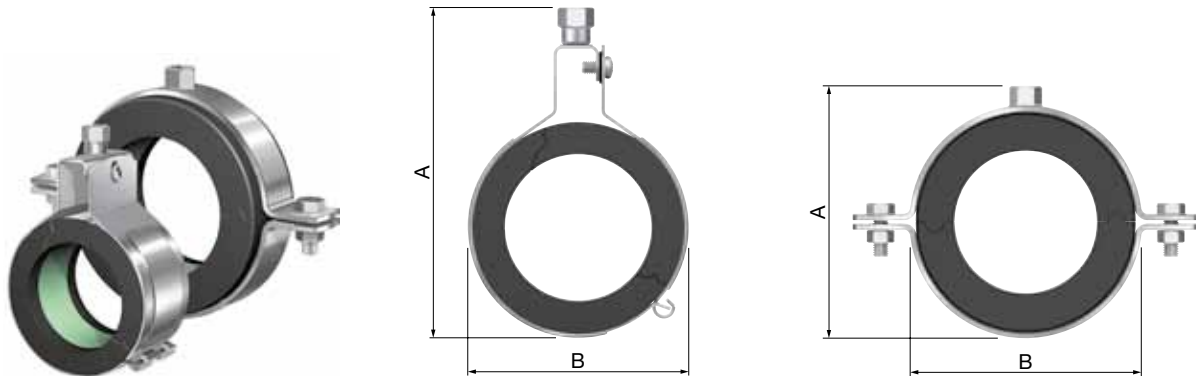


Type	Ø Pipe		Strip dimensions [mm]	Max. working load *		Dimensions			Order Code
	Ext. dia. [mm]	Nom. ["]		Ceiling* [N]	Wall [N]	A [mm]	B [mm]		
CA 9 x 15	15	-	50 x 1.5	145	55	84.5	41.0	25	39800
CA 9 x 18 - 3/8	18	3/8"	50 x 1.5	175	55	84.5	41.0	25	39801
CA 9 x 22 - 1/2	22	1/2"	50 x 1.5	210	50	90.5	47.0	25	39802
CA 9 x 28 - 3/4	28	3/4"	50 x 1.5	270	50	96.5	53.0	25	39803
CA 9 x 35 - 1	35	1"	50 x 1.5	340	50	103.5	60.0	25	39804
CA 9 x 42 - 1 1/4	42	1 1/4"	50 x 1.5	400	45	111.5	68.0	25	39805
CA 9 x 48 - 1 1/2	48	1 1/2"	50 x 1.5	460	40	118.5	75.0	25	39806
CA 9 x 54	54	-	50 x 2.0	520	65	132.0	83.0	25	39807
CA 9 x 60 - 2	60	2"	50 x 2.0	585	60	138.5	90.0	25	39808
CA 9 x 76 - 2 1/2	76	2 1/2"	50 x 2.0	740	50	154.0	104.5	25	39809

* The max. working load will be determined by the PIR insulation. The max. working load of the clip: min. 4900 N.

CA Clips - 13 mm

- Similar to CA clips - 9 mm, but with 13 mm elastomer insulation.



Type	Ø Pipe		Strip dimensions [mm]	Max. working load *		Dimensions			Order Code
	Ext. dia. [mm]	Nom. ["]		Ceiling [N]	Wall [N]	A [mm]	B [mm]		
CA 13 x 15	15	-	50 x 1.5	145	50	90.5	47.0	25	39810
CA 13 x 18 - 3/8	18	3/8"	50 x 1.5	175	50	90.5	47.0	25	39811
CA 13 x 22 - 1/2	22	1/2"	50 x 1.5	210	50	96.5	53.0	25	39812
CA 13 x 28 - 3/4	28	3/4"	50 x 1.5	270	50	103.5	60.0	25	39813
CA 13 x 35 - 1	35	1"	50 x 1.5	340	45	111.5	68.0	25	39814
CA 13 x 42 - 1 1/4	42	1 1/4"	50 x 1.5	400	40	118.5	75.0	25	39815
CA 13 x 48 - 1 1/2	48	1 1/2"	50 x 1.5	460	65	132.0	83.0	25	39816
CA 13 x 54	54	-	50 x 1.5	520	60	138.5	90.0	25	39817
CA 13 x 60 - 2	60	2"	50 x 1.5	585	50	146.0	97.0	25	39818
CA 13 x 76 - 2 1/2	76	2 1/2"	50 x 1.5	740	45	160.5	112.0	25	39819

* The max. working load will be determined by the PIR insulation. The max. working load of the clip: min. 4900 N.

CA Clips - 19 mm

- Similar to CA clips - 9 mm, but with 19 mm elastomer insulation.
- Sizes 3" and above with modified closure.

Type	Ø Pipe		Strip dimensions [mm]	Max. working load *		Dimensions			Order Code
	Ext. dia. [mm]	Nom. ["]		Ceiling [N]	Wall [N]	A [mm]	B [mm]		
CA 19 x 15	15	-	50 x 1.5	145	50	103.5	60.0	25	39820
CA 19 x 18 - 3/8	18	3/8"	50 x 1.5	175	50	103.5	60.0	25	39821
CA 19 x 22 - 1/2	22	1/2"	50 x 1.5	210	45	111.5	68.0	25	39822
CA 19 x 28 - 3/4	28	3/4"	50 x 1.5	270	40	118.5	75.0	25	39823
CA 19 x 35 - 1	35	1"	50 x 1.5	340	65	132.0	83.0	25	39824
CA 19 x 42 - 1 1/4	42	1 1/4"	50 x 1.5	400	60	138.5	90.0	25	39825
CA 19 x 48 - 1 1/2	48	1 1/2"	50 x 1.5	460	50	146.0	97.0	25	39826
CA 19 x 54	54	-	50 x 1.5	520	50	154.0	104.5	25	39827
CA 19 x 60 - 2	60	2"	50 x 1.5	585	45	160.5	112.0	25	39828
CA 19 x 76 - 2 1/2	76	2 1/2"	50 x 1.5	740	40	178.5	130.0	25	39829
CA 19 x 89 - 3 **	89	3"	30 x 4.0	850	-	159.0	146.0	1	39830
CA 19 x 114 - 4 **	114	4"	30 x 4.0	1100	-	187.0	175.0	1	39831
CA 19 x 140 - 5 **	140	5"	50 x 4.0	2250	-	213.0	205.0	1	39832
CA 19 x 168 - 6 **	168	6"	50 x 4.0	2700	-	231.0	223.0	1	39833
CA 19 x 219 - 8 **	219	8"	50 x 4.0	3500	-	282.0	274.0	1	39834

* The max. working load will be determined by the PIR insulation. The max. working load of the clip: min. 4900 N.

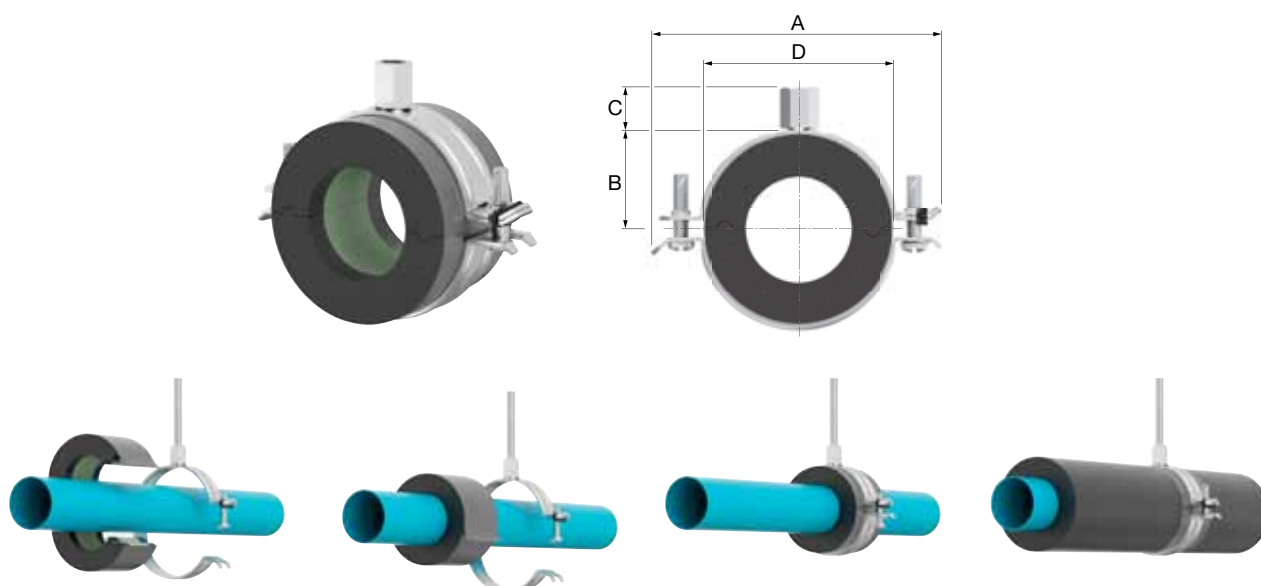
** From 3" modified closure and M 12 threaded connection.



CB Clips - 13 mm

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

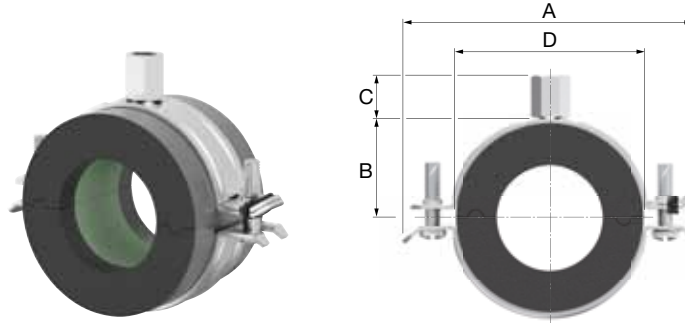
- Clip: electrolytically zinc plated.
- Insulation: 13 Elastomeric foam with a PIR core and coated with a black PVC foil.
- Easy to bond with pipework insulation. No thermal bridge.
- Connection: M 8/10.
- Insulation width: 50 mm.
- All clips are fitted with two cross head screws.
- Clips fitted with quick-locking system and bolts designed not to fall out during installation: all sizes except 114-4".
- Clips fitted with retaining ring: CB 13 x 114-4" and CB 19 x 114-4".
- PIR density 80 kg/m³, PIR pressure resistance 0,52 N/mm²: CB 13 x 15 up to CB 13 x 60-2" and CB 19 x 18 up to CB 19 x 76-2½".
- PIR density 120 kg/m³, PIR pressure resistance 1,3 N/mm²: other sizes.
- Temperature resistance: -45 °C up to +105 °C.
- Thermal conductivity: maximal 0.036 w/(m.k).
- Vapour permeability: 7000 µ.
- Fire rating B2 according to DIN 4102/1.
- Fire rating B1 according to 4102/1 as part of a system with tubes, elastomer insulation.



Type	Ø pipe		Max. vertical working load [N]	Strip dimensions [mm]	Dimensions					Order Code
	Ext. dia. [mm]	Nom. ["]			A [mm]	B [mm]	C [mm]	D [mm]		
CB 13 x 15	15	-	50	20 x 1.5	81	23	15	46	10	39870
CB 13 x 18	18	-	70	20 x 1.5	81	23	15	46	10	39871
CB 13 x 22 - 1/2	22	1/2"	80	20 x 1.5	85	25	15	50	10	39872
CB 13 x 28 - 3/4	28	3/4"	100	20 x 1.5	90	28	15	56	10	39873
CB 13 x 35 - 1	35	1"	130	20 x 1.5	98	32	15	64	10	39874
CB 13 x 42 - 1 1/4	42	1 1/4"	160	20 x 2.0	107	36	15	72	10	39875
CB 13 x 48/50 - 1 1/2	50	1 1/2"	180	20 x 2.0	115	40	15	80	10	39876
CB 13 x 54	54	-	210	20 x 2.0	122	43	15	86	10	39841
CB 13 x 60 - 2	60	2"	230	20 x 2.0	134	49	15	98	10	39877
CB 13 x 64	64	-	240	20 x 2.0	134	49	15	98	10	39843
CB 13 x 76 - 2 1/2	76	2 1/2"	740	20 x 2.5	155	60	15	120	10	39878
CB 13 x 89/90 - 3	90	3"	850	20 x 2.5	165	65	15	130	10	39879
CB 13 x 114 - 4	114	4"	1100	20 x 2.5	192	77	15	154	10	39880

CB Clips - 19 mm

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



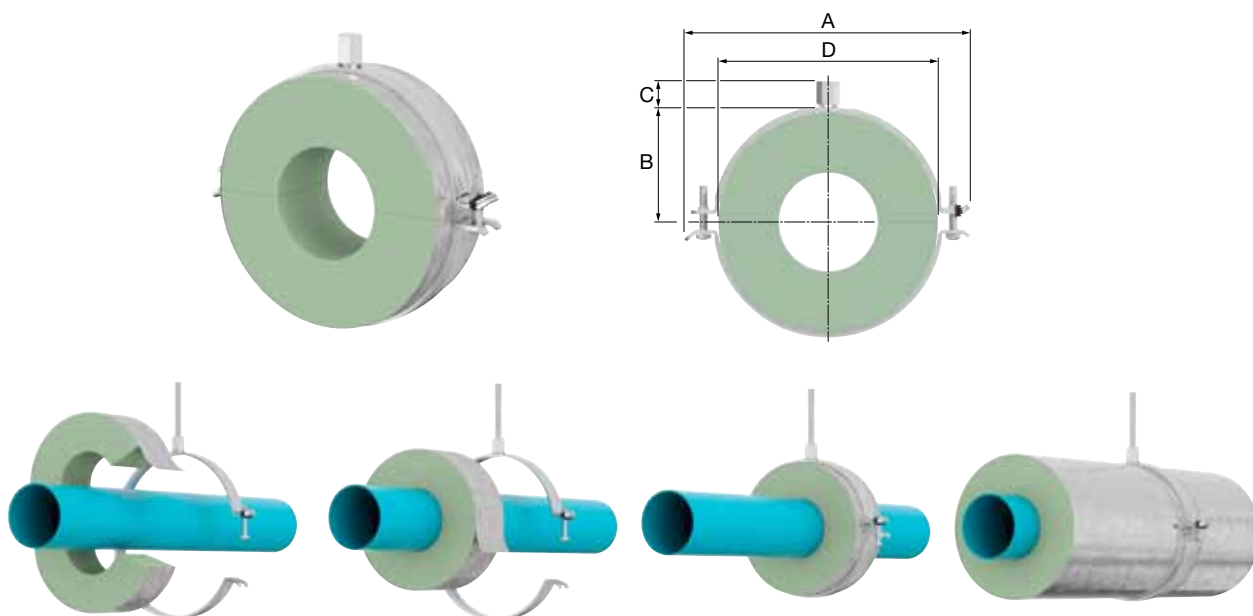
Type	Ø pipe		Max. vertical working load (N)	Strip dimensions [mm]	Dimensions					Order Code
	Ext. dia. (mm)	Nom. (")			A [mm]	B [mm]	C [mm]	D [mm]		
CB 19 x 18	18	-	70	20 x 1.5	98	32	15	64	10	39886
CB 19 x 22 - 1/2	22	1/2"	80	20 x 1.5	98	32	15	64	10	39887
CB 19 x 28 - 3/4	28	3/4"	100	20 x 1.5	104	35	15	70	10	39888
CB 19 x 35 - 1	35	1"	130	20 x 1.5	115	40	15	80	10	39889
CB 19 x 42 - 1 1/4	42	1 1/4"	160	20 x 2.0	122	43	15	86	10	39890
CB 19 x 48/50 - 1 1/2	50	1 1/2"	190	20 x 2.0	128	46	15	92	10	39891
CB 19 x 54	54	-	210	20 x 2.0	134	49	15	98	10	39897
CB 19 x 60 - 2	60	2"	230	20 x 2.0	140	52	15	104	10	39892
CB 19 x 64	64	-	240	20 x 2.0	140	52	15	104	10	39898
CB 19 x 76 - 2 1/2	76	2 1/2"	290	20 x 2.5	155	60	15	120	10	39893
CB 19 x 89/90 - 3	90	3"	850	20 x 2.5	177	70	15	140	10	39894
CB 19 x 114 - 4	114	4"	1100	20 x 2.5	211	87	15	174	10	39895



CC Clips - 30 mm

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

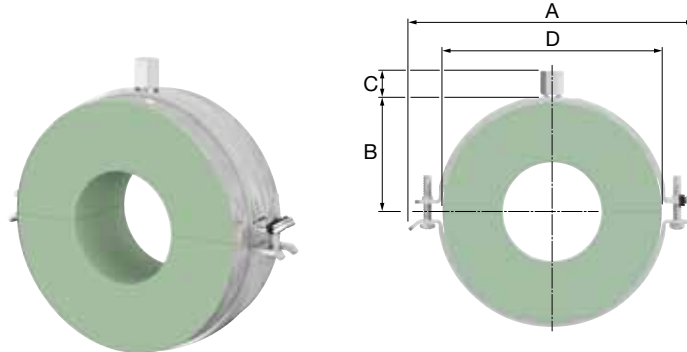
- Clip: electrolytically zinc plated.
- Insulation: 30 mm hard PIR insulation, coated with an aluminum foil.
- Connection: M 8/10.
- Insulation width: 50 mm.
- All clips are fitted with two cross head screws.
- Clips fitted with quick-locking system and bolts designed not to fall out during installation: all sizes up to CC 30 x 76-2½" and CC 40 x 60-2".
- Clips fitted with retaining ring: all sizes above CC 30 x 76-2½" and CC 40 x 60-2".
- PIR density 80 kg/m³, PIR pressure resistance 0,65 N/mm².
- Temperature resistance: -200 °C up to +120 °C.
- Thermal conductivity: maximal 0.029 w/(m.k).
- Vapour permeability: 30.000 µ.
- Fire rating B2 according to DIN 4102/1.
- Fire resistance classification M1.



Type	Ø pipe		Max. vertical working load [N]	Strip dimensions [mm]	Dimensions					Order Code
	Ext. dia. [mm]	Nom. ["]			A [mm]	B [mm]	C [mm]	D [mm]		
CC 30 x 15	15	-	100	20 x 2.0	115	40	15	230	10	39770
CC 30 x 18 - 3/8	18	3/8"	125	20 x 2.0	115	40	15	230	10	39771
CC 30 x 22 - 1/2	22	1/2"	150	20 x 2.0	122	43	15	244	10	39772
CC 30 x 28 - 3/4	28	3/4"	175	20 x 2.0	128	46	15	256	10	39773
CC 30 x 35 - 1	35	1"	200	20 x 2.0	134	49	15	268	10	39774
CC 30 x 42 - 1 1/4	42	1 1/4"	250	20 x 2.0	140	52	15	280	10	39775
CC 30 x 48 - 1 1/2	48	1 1/2"	300	20 x 2.5	155	60	15	310	10	39776
CC 30 x 54	54	-	350	20 x 2.5	155	60	15	310	10	39777
CC 30 x 57	57	-	375	20 x 2.5	165	65	15	330	10	39778
CC 30 x 60 - 2	60	2"	400	20 x 2.5	165	65	15	330	10	39779
CC 30 x 70	70	-	450	20 x 2.5	137	66	15	274	10	39780
CC 30 x 76 - 2 1/2	76	2 1/2"	500	20 x 2.5	177	70	15	354	10	39781
CC 30 x 89 - 3	89	3"	600	20 x 2.5	192	77	15	384	10	39782
CC 30 x 108	108	-	700	20 x 2.5	211	87	15	422	10	39783
CC 30 x 114 - 4	114	4"	750	20 x 2.5	211	87	15	422	10	39784
CC 30 x 133	133	-	775	20 x 3.0	245	104	15	490	10	39785
CC 30 x 139 - 5	139	5"	800	20 x 3.0	245	104	15	490	10	39786

CC Clips - 40 mm

- Similar to CC clips - 30 mm, but with 40 mm PIR insulation.



Type	Ø pipe		Max. vertical working load [N]	Strip dimensions [mm]	Dimensions					Order Code
	Ext. dia. [mm]	Nom. ["]			A [mm]	B [mm]	C [mm]	D [mm]		
CC 40 x 15	15	-	100	20 x 2.0	134	49	15	268	10	39850
CC 40 x 18 - 3/8	18	3/8"	125	20 x 2.0	140	52	15	280	10	39851
CC 40 x 22 - 1/2	22	1/2"	150	20 x 2.0	140	52	15	280	10	39852
CC 40 x 28 - 3/4	28	3/4"	175	20 x 2.0	155	60	15	310	10	39853
CC 40 x 35 - 1	35	1"	200	20 x 2.0	155	60	15	310	10	39854
CC 40 x 42 - 1 1/4	42	1 1/4"	250	20 x 2.0	165	65	15	330	10	39855
CC 40 x 48 - 1 1/2	48	1 1/2"	300	20 x 2.5	167	66	15	334	10	39856
CC 40 x 54	54	-	350	20 x 2.5	177	70	15	354	10	39857
CC 40 x 57	57	-	375	20 x 2.5	177	70	15	354	10	39858
CC 40 x 60 - 2	60	2"	400	20 x 2.5	177	70	15	354	10	39859
CC 40 x 70	70	-	450	20 x 2.5	192	77	15	384	10	39860
CC 40 x 76 - 2 1/2	76	2 1/2"	500	20 x 2.5	205	84	15	410	10	39861
CC 40 x 89 - 3	89	3"	600	20 x 2.5	211	87	15	422	10	39862
CC 40 x 108	108	-	700	20 x 2.5	229	96	15	458	10	39863
CC 40 x 114 - 4	114	4"	750	20 x 2.5	245	104	15	490	10	39864
CC 40 x 133	133	-	775	20 x 3.0	255	108	15	510	10	39865
CC 40 x 139 - 5	139	5"	800	20 x 3.0	272	117	15	544	10	39866

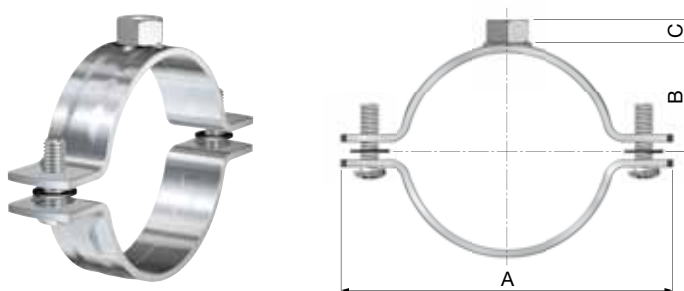


FOR STEEL PIPES

BSF M 8 Clips

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

- With retaining ring.
- Clip: electrolytically zinc plated.
- Close fitting possible.
- Suitable for high loads and temperatures.
- BSF clips are compatible with pipe sizes as per DIN 2448.



Type	Ø Pipe		Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSF M 8 x 13 - 17.5	13 - 17.5	3/8"	M 8	20 x 2.5	2000	53	11	8	100	38701
BSF M 8 x 21 - 25.5	21 - 25.5	1/2"	M 8	20 x 2.5	2000	61	15	8	100	38702
BSF M 8 x 26.5 - 30.5	26.5 - 30.5	3/4"	M 8	20 x 2.5	2000	68	18	8	100	38703
BSF M 8 x 33.5 - 38.5	33.5 - 38.5	1"	M 8	20 x 2.5	2000	76	22	8	100	38704
BSF M 8 x 41.5 - 47	41.5 - 47	1 1/4"	M 8	20 x 2.5	2000	86	26	8	100	38705
BSF M 8 x 48 - 54	48 - 54	1 1/2"	M 8	20 x 2.5	2000	95	32	8	50	38706
BSF M 8 x 56 - 62.5	56 - 62.5	2"	M 8	20 x 2.5	2000	104	34	8	50	38707
BSF M 8 x 62.5 - 69.5	62.5 - 69.5	-	M 8	20 x 2.5	2000	111	37	8	50	38788
BSF M 8 x 69.5 - 76.5	69.5 - 76.5	2 1/2"	M 8	20 x 2.5	2000	118	41	8	50	38789
BSF M 8 x 77.5 - 84	77.5 - 84	-	M 8	20 x 2.5	2000	125	45	8	50	38790
BSF M 8 x 85 - 92.5	85 - 92.5	3"	M 8	20 x 2.5	2000	134	49	8	50	38791
BSF M 8 x 93 - 100.5	93 - 100.5	-	M 8	25 x 2.5	2500	152	53	8	25	38792
BSF M 8 x 101.5 - 110	101.5 - 110	-	M 8	25 x 2.5	2500	161	58	8	25	38793
BSF M 8 x 110 - 117.5	110 - 117.5	4"	M 8	25 x 2.5	2500	169	61	8	25	38794
BSF M 8 x 119.5 - 127.5	119.5 - 127.5	-	M 8	25 x 2.5	2500	179	66	8	25	38795
BSF M 8 x 127.5 - 133.5	127.5 - 133.5	-	M 8	25 x 2.5	2500	185	69	8	25	38796
BSF M 8 x 134.5 - 142.5	134.5 - 142.5	5"	M 8	30 x 3.0	3000	197	76	8	25	38797
BSF M 8 x 143.5 - 150.5	143.5 - 150.5	-	M 8	30 x 3.0	3000	205	78	8	25	38798
BSF M 8 x 151.5 - 159.5	151.5 - 159.5	-	M 8	30 x 3.0	3000	214	83	8	25	38799
BSF M 8 x 163.5 - 171.5	163.5 - 171.5	6"	M 8	30 x 3.0	3000	226	89	8	25	38800
BSF M 8 x 172.5 - 182	172.5 - 182	-	M 8	30 x 3.0	3000	236	94	8	25	38801
BSF M 8 x 192.5 - 198	192.5 - 198	-	M 8	30 x 3.0	3000	252	102	8	25	38802
BSF M 8 x 215 - 220	215 - 220	8"	M 8	30 x 3.0	3000	274	113	8	25	38803

BSF M 8/10 Clips

- Similar to the BSF M 8 clips, but with a combined M 8/10 connection.

Type	Ø Pipe		Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSF M 8/10 x 13 - 17.5	13 - 17.5	3/8"	M 8/10	20 x 2.5	2000	53	11	16	100	38671
BSF M 8/10 x 21 - 25.5	21 - 25.5	1/2"	M 8/10	20 x 2.5	2000	61	15	16	100	38672
BSF M 8/10 x 26.5 - 30.5	26.5 - 30.5	3/4"	M 8/10	20 x 2.5	2000	68	18	16	100	38673
BSF M 8/10 x 33.5 - 38.5	33.5 - 38.5	1"	M 8/10	20 x 2.5	2000	76	22	16	100	38674
BSF M 8/10 x 41.5 - 47	41.5 - 47	1 1/4"	M 8/10	20 x 2.5	2000	86	26	16	100	38675
BSF M 8/10 x 48 - 54	48 - 54	1 1/2"	M 8/10	20 x 2.5	2000	95	32	16	10	38676
BSF M 8/10 x 56 - 62.5	56 - 62.5	2"	M 8/10	20 x 2.5	2000	104	34	16	10	38677
BSF M 8/10 x 62.5 - 69.5	62.5 - 69.5	-	M 8/10	20 x 2.5	2000	111	37	16	10	38678
BSF M 8/10 x 69.5 - 76.5	69.5 - 76.5	2 1/2"	M 8/10	20 x 2.5	2000	118	41	16	10	38679
BSF M 8/10 x 77.5 - 84	77.5 - 84	-	M 8/10	20 x 2.5	2000	125	45	16	10	38680
BSF M 8/10 x 85 - 92.5	85 - 92.5	3"	M 8/10	20 x 2.5	2000	134	49	16	10	38681
BSF M 8/10 x 93 - 100.5	93 - 100.5	-	M 8/10	25 x 2.5	2500	152	53	16	25	38682
BSF M 8/10 x 101.5 - 110	101.5 - 110	-	M 8/10	25 x 2.5	2500	161	58	16	25	38683
BSF M 8/10 x 110 - 117.5	110 - 117.5	4"	M 8/10	25 x 2.5	2500	169	61	16	25	38684
BSF M 8/10 x 119.5 - 127.5	119.5 - 127.5	-	M 8/10	25 x 2.5	2500	179	66	16	25	38685

BSF M 10 Clips

- Similar to the BSF M 8 clips, but with a M 10 connection.

Type	Ø Pipe		Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSF M 10 x 13 - 17.5	13 - 17.5	3/8"	M 10	20 x 2.5	2000	53	11	10	100	38711
BSF M 10 x 21 - 25.5	21 - 25.5	1/2"	M 10	20 x 2.5	2000	61	15	10	100	38712
BSF M 10 x 26.5 - 30.5	26.5 - 30.5	3/4"	M 10	20 x 2.5	2000	68	18	10	100	38713
BSF M 10 x 33.5 - 38.5	33.5 - 38.5	1"	M 10	20 x 2.5	2000	76	22	10	100	38714
BSF M 10 x 41.5 - 47	41.5 - 47	1 1/4"	M 10	20 x 2.5	2000	86	26	10	100	38715
BSF M 10 x 48 - 54	48 - 54	1 1/2"	M 10	20 x 2.5	2000	95	32	10	50	38716
BSF M 10 x 56 - 62.5	56 - 62.5	2"	M 10	20 x 2.5	2000	104	34	10	50	38717
BSF M 10 x 62.5 - 69.5	62.5 - 69.5	-	M 10	20 x 2.5	2000	111	37	10	50	38718
BSF M 10 x 69.5 - 76.5	69.5 - 76.5	2 1/2"	M 10	20 x 2.5	2000	118	41	10	50	38719
BSF M 10 x 77.5 - 84	77.5 - 84	-	M 10	20 x 2.5	2000	125	45	10	50	38720
BSF M 10 x 85 - 92.5	85 - 92.5	3"	M 10	20 x 2.5	2000	134	49	10	50	38721
BSF M 10 x 93 - 100.5	93 - 100.5	-	M 10	25 x 2.5	2500	152	53	10	25	38722
BSF M 10 x 101.5 - 110	101.5 - 110	-	M 10	25 x 2.5	2500	161	58	10	25	38723
BSF M 10 x 110 - 117.5	110.0 - 117.5	4"	M 10	25 x 2.5	2500	169	61	10	25	38724
BSF M 10 x 119.5 - 127.5	119.5 - 127.5	-	M 10	25 x 2.5	2500	179	66	10	25	38725
BSF M 10 x 127.5 - 133.5	127.5 - 133.5	-	M 10	25 x 2.5	2500	185	69	10	25	38726
BSF M 10 x 134.5 - 142.5	134.5 - 142.5	5"	M 10	30 x 3.0	3000	197	76	10	25	38727
BSF M 10 x 143.5 - 150.5	143.5 - 150.5	-	M 10	30 x 3.0	3000	205	78	10	25	38728
BSF M 10 x 151.5 - 159.5	151.5 - 159.5	-	M 10	30 x 3.0	3000	214	83	10	25	38729
BSF M 10 x 163.5 - 171.5	163.5 - 171.5	6"	M 10	30 x 3.0	3000	226	89	10	25	38730
BSF M 10 x 172.5 - 182	172.5 - 182	-	M 10	30 x 3.0	3000	236	94	10	25	38731
BSF M 10 x 192.5 - 198	192.5 - 198	-	M 10	30 x 3.0	3000	252	102	10	25	38732
BSF M 10 x 215 - 220	215 - 220	8"	M 10	30 x 3.0	3000	274	113	10	25	38733

BSF M 12 Clips

- Similar to the BSF M 8 clips, but with a M 12 connection.

Type	Ø Pipe		Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSF M 12 x 93 - 100.5	93 - 100.5	-	M 12	25 x 2.5	2500	152	53	12	25	38742
BSF M 12 x 101.5 - 110	101.5 - 110	-	M 12	25 x 2.5	2500	161	58	12	25	38743
BSF M 12 x 110 - 117.5	110 - 117.5	4"	M 12	25 x 2.5	2500	169	61	12	25	38744
BSF M 12 x 119.5 - 127.5	119.5 - 127.5	-	M 12	25 x 2.5	2500	179	66	12	25	38745
BSF M 12 x 127.5 - 133.5	127.5 - 133.5	-	M 12	25 x 2.5	2500	185	69	12	25	38746
BSF M 12 x 134.5 - 142.5	134.5 - 142.5	5"	M 12	30 x 3.0	3000	197	76	12	25	38747
BSF M 12 x 143.5 - 150.5	143.5 - 150.5	-	M 12	30 x 3.0	3000	205	78	12	25	38748
BSF M 12 x 151.5 - 159.5	151.5 - 159.5	-	M 12	30 x 3.0	3000	214	83	12	25	38749
BSF M 12 x 163.5 - 171.5	163.5 - 171.5	6"	M 12	30 x 3.0	3000	226	89	12	25	38750
BSF M 12 x 172.5 - 182	172.5 - 182	-	M 12	30 x 3.0	3000	236	94	12	25	38751
BSF M 12 x 192.5 - 198	192.5 - 198	-	M 12	30 x 3.0	3000	252	102	12	25	38752
BSF M 12 x 215 - 220	215 - 220	8"	M 12	30 x 3.0	3000	274	113	12	25	38753

BSF M 16 Clips

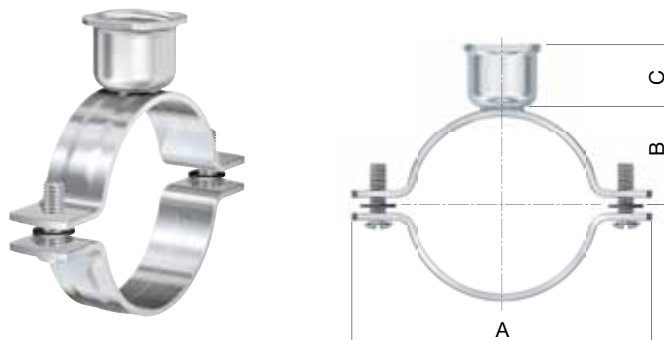
- Similar to the BSF M 8 clips, but with a M 16 connection.

Type	Ø Pipe		Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSF M 16 x 267 - 273	267 - 273	10"	M 16	50 x 5.0	10000	363	142	12	1	38754
BSF M 16 x 315 - 324	315 - 324	12"	M 16	50 x 5.0	10000	414	167	12	1	38755
BSF M 16 x 350 - 356	350 - 356	14"	M 16	50 x 5.0	10000	446	183	12	1	38756
BSF M 16 x 400 - 406	400 - 406	16"	M 16	50 x 5.0	10000	496	208	12	1	38757



BSF ½ Clips

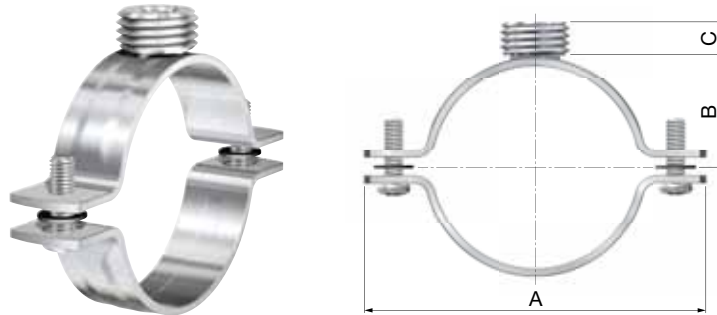
- Similar to the BSF M 8 clips, but with a ½" (F) connection.
- Designed for heavier installations.



Type	Ø Pipe		Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSF ½ x 13 - 17.5	13 - 17.5	3/8"	½"	20 x 2.5	2000	53	11	23	100	38761
BSF ½ x 21 - 25.5	21 - 25.5	1/2"	½"	20 x 2.5	2000	61	15	23	100	38762
BSF ½ x 26.5 - 30.5	26.5 - 30.5	3/4"	½"	20 x 2.5	2000	68	18	23	100	38763
BSF ½ x 33.5 - 38.5	33.5 - 38.5	1"	½"	20 x 2.5	2000	76	22	23	50	38764
BSF ½ x 41.5 - 47	41.5 - 47	1 1/4"	½"	20 x 2.5	2000	86	26	23	50	38765
BSF ½ x 48 - 54	48 - 54	1 1/2"	½"	20 x 2.5	2000	95	32	23	50	38766
BSF ½ x 56 - 62.5	56 - 62.5	2"	½"	20 x 2.5	2000	104	34	23	50	38767
BSF ½ x 62.5 - 69.5	62.5 - 69.5	-	½"	20 x 2.5	2000	111	37	23	50	38768
BSF ½ x 69.5 - 76.5	69.5 - 76.5	2 1/2"	½"	20 x 2.5	2000	118	41	23	50	38769
BSF ½ x 77.5 - 84	77.5 - 84	-	½"	20 x 2.5	2000	125	45	23	50	38770
BSF ½ x 85 - 92.5	85 - 92.5	3"	½"	20 x 2.5	2000	134	49	23	50	38771
BSF ½ x 93 - 100.5	93 - 100.5	-	½"	25 x 2.5	2500	152	53	23	25	38772
BSF ½ x 101.5 - 110	101.5 - 110	-	½"	25 x 2.5	2500	161	58	23	25	38773
BSF ½ x 110 - 117.5	110 - 117.5	4"	½"	25 x 2.5	2500	169	61	23	25	38774
BSF ½ x 119.5 - 127.5	119.5 - 127.5	-	½"	25 x 2.5	2500	179	66	23	25	38775
BSF ½ x 127.5 - 133.5	127.5 - 133.5	-	½"	25 x 2.5	2500	185	69	23	25	38776
BSF ½ x 134.5 - 142.5	134.5 - 142.5	5"	½"	30 x 3.0	3000	197	76	23	25	38777
BSF ½ x 143.5 - 150.5	143.5 - 150.5	-	½"	30 x 3.0	3000	205	78	23	25	38778
BSF ½ x 151.5 - 159.5	151.5 - 159.5	-	½"	30 x 3.0	3000	214	83	23	25	38779
BSF ½ x 163.5 - 171.5	163.5 - 171.5	6"	½"	30 x 3.0	3000	226	89	23	25	38780
BSF ½ x 172.5 - 182	172.5 - 182	-	½"	30 x 3.0	3000	236	94	23	25	38781
BSF ½ x 192.5 - 198	192.5 - 198	-	½"	30 x 3.0	3000	252	102	23	25	38782
BSF ½ x 215 - 220	215 - 220	8"	½"	30 x 3.0	3000	274	113	23	25	38783

BSF ½ / M 10 Clips

- Similar to the BSF M 8 clips, but with a combined ½" (M) / M 10 (F) connection.



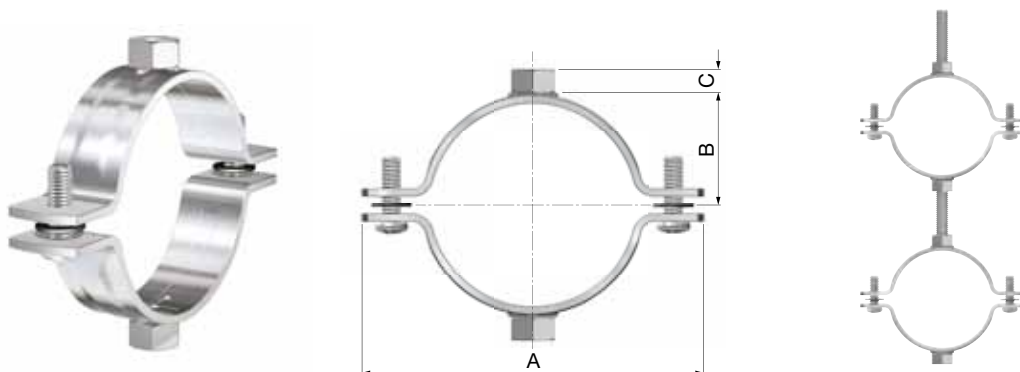
Type	Ø Pipe		Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSF ½ - M 10 x 13 - 17.5	13 - 17.5	3/8"	½ / M10	20 x 2.5	2000	53	11	10	50	51801
BSF ½ - M 10 x 21 - 25.5	21 - 25.5	1/2"	½ / M10	20 x 2.5	2000	61	15	10	50	51802
BSF ½ - M 10 x 26.5 - 30.5	26.5 - 30.5	3/4"	½ / M10	20 x 2.5	2000	68	18	10	50	51803
BSF ½ - M 10 x 33.5 - 38.5	33.5 - 38.5	1"	½ / M10	20 x 2.5	2000	76	22	10	50	51804
BSF ½ - M 10 x 41.5 - 47	41.5 - 47	1 1/4"	½ / M10	20 x 2.5	2000	86	26	10	50	51805
BSF ½ - M 10 x 48 - 54	48 - 54	1 1/2"	½ / M10	20 x 2.5	2000	95	32	10	50	51806
BSF ½ - M 10 x 56 - 62.5	56 - 62.5	2"	½ / M10	20 x 2.5	2000	104	34	10	50	51807
BSF ½ - M 10 x 62.5 - 69.5	62.5 - 69.5	-	½ / M10	20 x 2.5	2000	111	37	10	50	51808
BSF ½ - M 10 x 69.5 - 76.5	69.5 - 76.5	2 1/2"	½ / M10	20 x 2.5	2000	118	41	10	50	51809
BSF ½ - M 10 x 77.5 - 84	77.5 - 84	-	½ / M10	20 x 2.5	2000	125	45	10	50	51810
BSF ½ - M 10 x 85 - 92.5	85 - 92.5	3"	½ / M10	20 x 2.5	2000	134	49	10	50	51811
BSF ½ - M 10 x 93 - 100.5	93 - 100.5	-	½ / M10	25 x 2.5	2500	152	53	10	25	51812
BSF ½ - M 10 x 101.5 - 110	101.5 - 110	-	½ / M10	25 x 2.5	2500	161	58	10	25	51813
BSF ½ - M 10 x 110 - 117.5	110 - 117.5	4"	½ / M10	25 x 2.5	2500	169	61	10	25	51814
BSF ½ - M 10 x 119.5 - 127.5	119.5 - 127.5	-	½ / M10	25 x 2.5	2500	179	66	10	25	51815
BSF ½ - M 10 x 127.5 - 133.5	127.5 - 133.5	-	½ / M10	25 x 2.5	2500	185	69	10	25	51816
BSF ½ - M 10 x 134.5 - 142.5	134.5 - 142.5	5"	½ / M10	30 x 3.0	3000	197	76	10	25	51817
BSF ½ - M 10 x 143.5 - 150.5	143.5 - 150.5	-	½ / M10	30 x 3.0	3000	205	78	10	25	51818
BSF ½ - M 10 x 151.5 - 159.5	151.5 - 159.5	-	½ / M10	30 x 3.0	3000	214	83	10	25	51819
BSF ½ - M 10 x 163.5 - 171.5	163.5 - 171.5	6"	½ / M10	30 x 3.0	3000	226	89	10	25	51820
BSF ½ - M 10 x 172.5 - 182	172.5 - 182	-	½ / M10	30 x 3.0	3000	236	94	10	25	51821
BSF ½ - M 10 x 192.5 - 198	192.5 - 198	-	½ / M10	30 x 3.0	3000	252	102	10	25	51822
BSF ½ - M 10 x 215 - 220	215 - 220	8"	½ / M10	30 x 3.0	3000	274	113	10	25	51823



BSF-D Clips

The BSF-D clip provides the possibility of mounting pipes directly under or next to each other, both horizontally and vertically.

- Safety factor on max. working load(V) = 3.



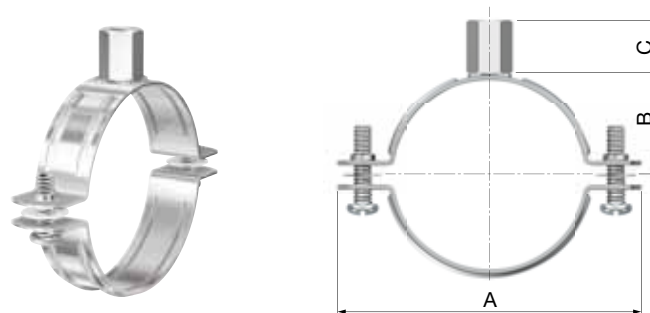
Type	Ø Pipe		Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSF-D M 8 x 13 - 17.5	13 - 17.5	3/8"	M 8	20 x 2.5	1650	53	11	8	50	38500
BSF-D M 8 x 21 - 25.5	21 - 25.5	1/2"	M 8	20 x 2.5	1650	61	15	8	50	38501
BSF-D M 8 x 26.5 - 30.5	26.5 - 30.5	3/4"	M 8	20 x 2.5	1650	68	18	8	50	38502
BSF-D M 8 x 33.5 - 38.5	33.5 - 38.5	1"	M 8	20 x 2.5	1650	76	22	8	50	38503
BSF-D M 8 x 41.5 - 47	41.5 - 47	1 1/4"	M 8	20 x 2.5	1650	86	26	8	50	38504
BSF-D M 8 x 48 - 54	48 - 54	1 1/2"	M 8	20 x 2.5	1650	95	32	8	50	38505
BSF-D M 8 x 56 - 62.5	56 - 62.5	2"	M 8	20 x 2.5	1650	104	34	8	50	38506
BSF-D M 8 x 62.5 - 69.5	62.5 - 69.5	-	M 8	20 x 2.5	1650	111	37	8	50	38507
BSF-D M 8 x 69.5 - 76.5	69.5 - 76.5	2 1/2"	M 8	20 x 2.5	1650	118	41	8	50	38508
BSF-D M 8 x 77.5 - 84	77.5 - 84	-	M 8	20 x 2.5	1650	125	45	8	50	38509
BSF-D M 8 x 85 - 92.5	85 - 92.5	3"	M 8	20 x 2.5	1650	134	49	8	50	38510
BSF-D M 8 x 93 - 100.5	93 - 100.5	-	M 8	25 x 2.5	3000	152	53	8	25	38511
BSF-D M 8 x 101.5 - 110	101.5 - 110	-	M 8	25 x 2.5	3000	161	58	8	25	38512
BSF-D M 8 x 110 - 117.5	110 - 117.5	4"	M 8	25 x 2.5	3000	169	61	8	25	38513
BSF-D M 8 x 119.5 - 127.5	119.5 - 127.5	-	M 8	25 x 2.5	3000	179	66	8	25	38514
BSF-D M 8 x 127.5 - 133.5	127.5 - 133.5	-	M 8	25 x 2.5	3000	185	69	8	25	38515
BSF-D M 8 x 134.5 - 142.5	134.5 - 142.5	5"	M 8	30 x 3.0	4000	197	76	8	25	38516
BSF-D M 8 x 143.5 - 150.5	143.5 - 150.5	-	M 8	30 x 3.0	4000	205	78	8	25	38517
BSF-D M 8 x 151.5 - 159.5	151.5 - 159.5	-	M 8	30 x 3.0	4000	214	83	8	25	38518
BSF-D M 8 x 163.5 - 171.5	163.5 - 171.5	6"	M 8	30 x 3.0	4000	226	89	8	25	38519
BSF-D M 8 x 172.5 - 182	172.5 - 182	-	M 8	30 x 3.0	4000	236	94	8	25	38520
BSF-D M 8 x 192.5 - 198	192.5 - 198	-	M 8	30 x 3.0	4000	252	102	8	25	38521
BSF-D M 8 x 215 - 220	215 - 220	8"	M 8	30 x 3.0	4000	274	113	8	25	38522

* The load applies for all the BSF-D clips fitted under each other.

BSU M 8/10 Clips

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

- With retaining ring.
- Clip: electrolytically zinc plated.
- Close fitting possible.
- Bolt with slot and cross head.
- Suitable for high loads and temperatures.
- Compatible with pipe sizes as per DIN 2448.
- Safety factor on max. working load(V) = 3.



Type	Ø Pipe		Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSU M 8/10 x 15 - 18	15 - 18	3/8"	M 8/10	20 x 1.5	1000	50	11	16	50	38270
BSU M 8/10 x 20 - 25	20 - 25	1/2"	M 8/10	20 x 1.5	1000	60	16	16	50	38271
BSU M 8/10 x 26 - 30	26 - 30	3/4"	M 8/10	20 x 1.5	1000	64	19	16	50	38272
BSU M 8/10 x 32 - 36	32 - 36	1"	M 8/10	20 x 1.5	1000	71	22	16	50	38273
BSU M 8/10 x 38 - 43	38 - 43	1 1/4"	M 8/10	20 x 1.5	1000	79	25	16	50	38274
BSU M 8/10 x 44 - 49	44 - 49	1 1/2"	M 8/10	20 x 1.5	1000	84	28	16	50	38275
BSU M 8/10 x 56 - 61	56 - 61	2"	M 8/10	20 x 1.5	1000	93	34	16	50	38276
BSU M 8/10 x 62 - 67	62 - 67	-	M 8/10	20 x 1.5	1000	109	36	16	50	38286
BSU M 8/10 x 75 - 80	75 - 80	2 1/2"	M 8/10	20 x 2.0	1300	118	44	16	50	38277
BSU M 8/10 x 87 - 92	87 - 92	3"	M 8/10	20 x 2.0	1300	129	50	16	50	38278
BSU M 8/10 x 108 - 116	108 - 116	4"	M 8/10	20 x 2.5	2150	160	62	16	25	38279
BSU M 8/10 x 121 - 127	121 - 127	-	M 8/10	20 x 2.5	2150	160	66	16	25	38287
BSU M 8/10 x 131 - 141	131 - 141	5"	M 8/10	20 x 2.5	2150	188	75	16	25	38280
BSU M 8/10 x 165 - 169	165 - 169	6"	M 8/10	20 x 2.5	2150	220	89	16	10	38281

BSU M 10/12 Clips

- Similar to the BSU M 8/10 clips, but with a combined M 10/12 connection.

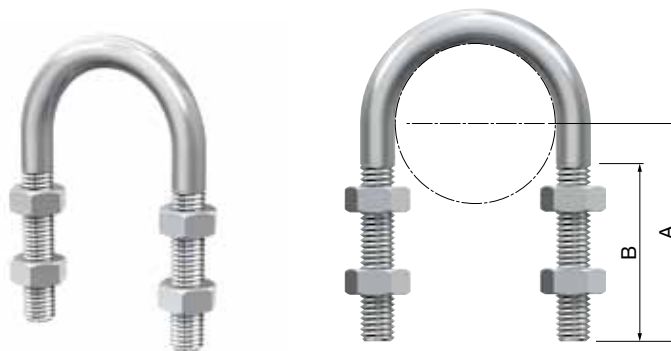
Type	Ø Pipe		Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSU M 10/12 x 108 - 116	108 - 116	4"	M 10/12	20 x 2.5	2150	160	62	18	25	38282
BSU M 10/12 x 131 - 141	131 - 141	5"	M 10/12	20 x 2.5	2150	188	75	18	25	38283
BSU M 10/12 x 165 - 169	165 - 169	6"	M 10/12	20 x 2.5	2150	220	89	18	10	38284
BSU M 10/12 x 192 - 202	192 - 202	-	M 10/12	20 x 3.0	3000	240	104	18	10	38285



UB U-bolts

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

- Electrolytically zinc plated.
- Threaded connections from M 6 up to M 16.
- Supplied with 4 nuts.

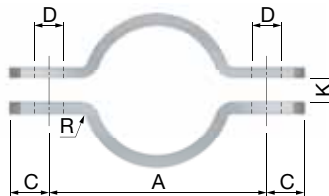


Type	Ø Pipe		Connection	Suitable for Flamco rail	Dimensions			Order Code
	Ext. dia. [mm]	Nom. ["]			A [mm]	B [mm]		
UB M 6 x 10 - 14	10 - 14	1/4"	M 6	R1/R2/R8	35	30	100	81001
UB M 6 x 15 - 18	15 - 18	3/8"	M 6	R1/R2/R8	36.5	30	100	81002
UB M 6 x 19 - 22	19 - 22	1/2"	M 6	R1/R2/R8	38.5	30	100	81003
UB M 8 x 23 - 27	23 - 27	3/4"	M 8	R0-2/R8	45	30	50	81004
UB M 8 x 28 - 34	28 - 34	1"	M 8	R0-2/R8	49	40	50	81005
UB M 8 x 35 - 43	35 - 43	1 1/4"	M 8	R0-2/R8	53	40	50	81006
UB M 8 x 44 - 49	44 - 49	1 1/2"	M 8	R0-2/R8	56	40	50	81007
UB M 8 x 50 - 61	50 - 61	2"	M 8	R1/R2/R8	62	45	50	81008
UB M 8 x 62 - 70	62 - 70	-	M 8	R1/R2/R8	67	45	50	81009
UB M 8 x 71 - 77	71 - 77	2 1/2"	M 8	R0-2/R8	70	45	50	81010
UB M 10 x 78 - 89	78 - 89	3"	M 10	R1/R2/R8	82	45	20	81011
UB M 10 x 90 - 102	90 - 102	3 1/2"	M 10	R1/R2/R8	88	50	20	81012
UB M 10 x 103 - 108	103 - 108	-	M 10	R1/R2/R8	91	50	20	81013
UB M 10 x 109 - 115	109 - 115	4"	M 10	R1/R2/R8	94	50	20	81014
UB M 12 x 116 - 127	116 - 127	-	M 12	R4/R7/R8	104	50	20	81015
UB M 12 x 128 - 133	128 - 133	-	M 12	R4/R7/R8	107	60	20	81016
UB M 12 x 134 - 140	134 - 140	5"	M 12	R4/R7/R8	111	60	20	81017
UB M 12 x 141 - 159	141 - 159	-	M 12	-	120	60	20	81018
UB M 12 x 160 - 169	160 - 169	6"	M 12	R4/R7/R8	125	60	20	81019
UB M 12 x 170 - 220	170 - 220	8"	M 12	R4/R7/R8	150	60	20	81020
UB M 16 x 221 - 273	221 - 273	10"	M 16	-	180	60	10	81021
UB M 16 x 274 - 324	274 - 324	12"	M 16	-	205	70	10	81022
UB M 16 x 325 - 356	325 - 356	14"	M 16	-	220	70	10	81023
UB M 16 x 357 - 407	357 - 407	16"	M 16	-	250	70	10	81024

KB Fixed Point Clips (Hot Dip Galvanized)

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.
- Can be supplied in one or two halves.
- KB clips are compatible with pipe sizes as per DIN 2448 and DIN EN 10220.



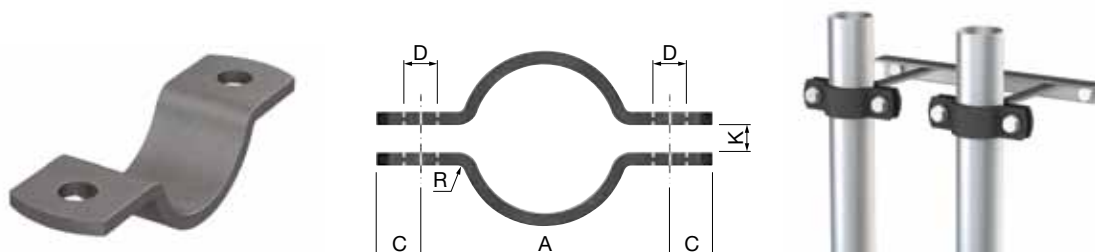
Type	Ø Pipe		Fire pipe nom. [mm]	Strip dimensions [mm]	Bolts needed	Dimensions						Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	C [mm]	D [mm]	K [mm]	R [mm]		
KB 22	22	1/2"	15	30 x 5	M 10 x 30	56	15	11.5	7	7	1	37882
KB 25	25	-	20	30 x 5	M 10 x 30	62	15	11.5	7	7	1	37850
KB 27	27	3/4"	20	30 x 5	M 10 x 30	66	15	11.5	7	7	1	37851
KB 30	30	-	25	30 x 5	M 10 x 30	68	15	11.5	7	7	1	37852
KB 34	34	1"	25	30 x 5	M 10 x 30	72	15	11.5	7	7	1	37853
KB 38	38	-	32	30 x 5	M 10 x 30	72	15	11.5	7	7	1	37854
KB 43	43	1 1/4"	32	30 x 5	M 10 x 30	82	15	11.5	7	7	1	37855
KB 45	45	-	40	30 x 5	M 10 x 30	84	15	11.5	7	7	1	37856
KB 49	49	1 1/2"	40	30 x 5	M 10 x 30	88	15	11.5	7	7	1	37857
KB 57	57	-	50	40 x 6	M 12 x 35	104	18	14	9	9	1	37858
KB 61	61	2"	50	40 x 6	M 12 x 35	108	18	14	9	9	1	37859
KB 77	77	2 1/2"	65	40 x 6	M 12 x 35	122	18	14	9	9	1	37860
KB 89	89	3"	80	40 x 6	M 12 x 35	136	18	14	9	9	1	37861
KB 108	108	-	100	50 x 8	M 16 x 45	172	24	18	11	12	1	37862
KB 115	115	4"	100	50 x 8	M 16 x 45	178	24	18	11	12	1	37863
KB 133	133	-	125	50 x 8	M 16 x 45	196	24	18	11	12	1	37864
KB 140	140	5"	125	50 x 8	M 16 x 45	204	24	18	11	12	1	37865
KB 159	159	-	150	50 x 8	M 16 x 45	222	24	18	11	12	1	37866
KB 169	169	6"	150	50 x 8	M 16 x 45	232	24	18	11	12	1	37867
KB 220	220	8"	200	50 x 8	M 16 x 45	284	24	18	11	12	1	37871
KB 324	324	12"	300	60 x 8	M 20 x 50	398	30	23	14	12	1	37875
KB 356	356	14"	350	60 x 8	M 20 x 50	432	30	23	14	12	1	37876
KB 521	521	-	500	70 x 10	M 24 x 60	614	36	27	18	15	1	37934



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.
- Can be supplied in one or two halves.
- KB clips are compatible with pipe sizes as per DIN 2448 and DIN EN 10220.



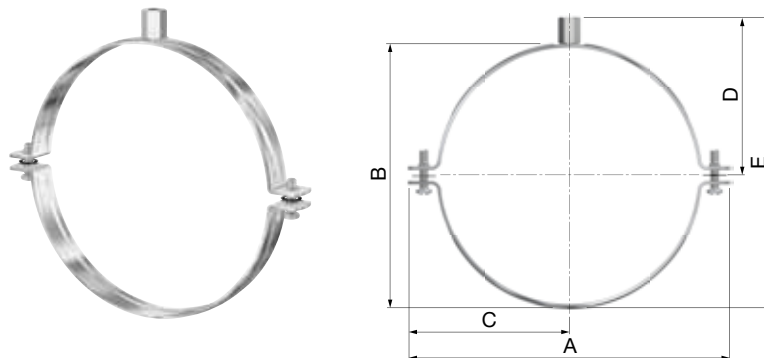
Type	Ø Pipe		Fire pipe nom. dia. [mm]	Strip dimensions [mm]	Bolts needed	Dimensions						Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	C [mm]	D [mm]	K [mm]	R [mm]		
KB 22	22	1/2"	15	30 x 5	M 10 x 30	56	15	11.5	7	7	1	37932
KB 25	25	-	20	30 x 5	M 10 x 30	62	15	11.5	7	7	1	37900
KB 27	27	3/4"	20	30 x 5	M 10 x 30	66	15	11.5	7	7	1	37901
KB 30	30	-	25	30 x 5	M 10 x 30	68	15	11.5	7	7	1	37902
KB 34	34	1"	25	30 x 5	M 10 x 30	72	15	11.5	7	7	1	37903
KB 38	38	-	32	30 x 5	M 10 x 30	72	15	11.5	7	7	1	37904
KB 43	43	1 1/4"	32	30 x 5	M 10 x 30	82	15	11.5	7	7	1	37905
KB 45	45	-	40	30 x 5	M 10 x 30	84	15	11.5	7	7	1	37906
KB 49	49	1 1/2"	40	30 x 5	M 10 x 30	88	15	11.5	7	7	1	37907
KB 57	57	-	50	40 x 6	M 12 x 35	104	18	14	9	9	1	37908
KB 61	61	2"	50	40 x 6	M 12 x 35	108	18	14	9	9	1	37909
KB 77	77	2 1/2"	65	40 x 6	M 12 x 35	122	18	14	9	9	1	37910
KB 89	89	3"	80	40 x 6	M 12 x 35	136	18	14	9	9	1	37911
KB 108	108	-	100	50 x 8	M 16 x 45	172	24	18	11	12	1	37912
KB 115	115	4"	100	50 x 8	M 16 x 45	178	24	18	11	12	1	37913
KB 133	133	-	125	50 x 8	M 16 x 45	196	24	18	11	12	1	37914
KB 140	140	5"	125	50 x 8	M 16 x 45	204	24	18	11	12	1	37915
KB 159	159	-	150	50 x 8	M 16 x 45	222	24	18	11	12	1	37916
KB 169	169	6"	150	50 x 8	M 16 x 45	232	24	18	11	12	1	37917
KB 194	194	-	175	50 x 8	M 16 x 45	258	24	18	11	12	1	37919
KB 216	216	-	196	50 x 8	M 16 x 45	280	24	18	11	12	1	37920
KB 220	220	8"	200	50 x 8	M 16 x 45	284	24	18	11	12	1	37921
KB 267	267	-	250	60 x 8	M 20 x 50	342	30	23	14	12	1	37922
KB 273	273	10"	250	60 x 8	M 20 x 50	348	30	23	14	12	1	37923
KB 318	318	-	300	60 x 8	M 20 x 50	382	30	23	14	12	1	37924
KB 324	324	12"	300	60 x 8	M 20 x 50	398	30	23	14	12	1	37925
KB 356	356	14"	350	60 x 8	M 20 x 50	432	30	23	14	12	1	37926
KB 368	368	-	350	60 x 8	M 20 x 50	444	30	23	14	12	1	37927
KB 407	407	16"	400	70 x 10	M 24 x 60	498	36	27	18	15	1	37928
KB 419	419	-	400	70 x 10	M 24 x 60	510	36	27	18	15	1	37929
KB 457	457	-	450	70 x 10	M 24 x 60	550	36	27	18	15	1	37933
KB 508	508	-	500	70 x 10	M 24 x 60	600	36	27	18	15	1	37930
KB 521	521	-	500	70 x 10	M 24 x 60	614	36	27	18	15	1	37931
KB 610	610	-	600	70 x 10	M 24 x 60	664	36	27	18	15	1	37934

FOR AIR DUCT FIXING

BSL Clips

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

- Clip: electrolytically zinc plated.
- Side connection bolt/threaded hole M 6.
- Close fitting to the wall or ceiling possible.
- Safety factor on max. working load(V) = 3.



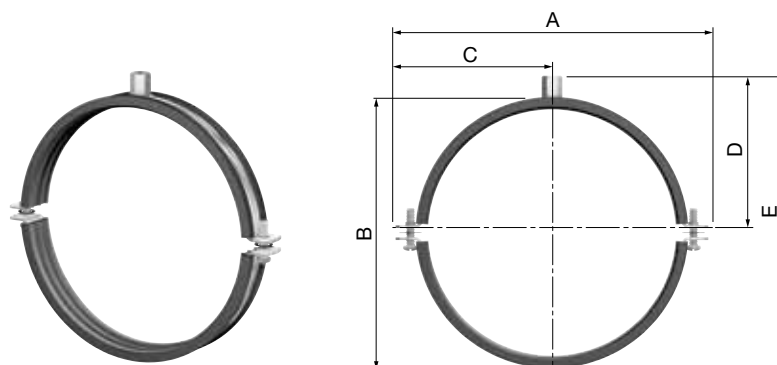
Type	Ø Pipe ext. dia. [mm]	Max. working load [N]	Strip dimensions [mm]	Side-mounted connections	Dimensions						Order Code
					A [mm]	B [mm]	C [mm]	D [mm]	E [mm]		
BSL 71	71	1000	20 x 2.0	M 6 x 25	110	80	55	48	88	50	39900
BSL 80	80	1000	20 x 2.0	M 6 x 25	118	88	59	52	96	50	39901
BSL 90	90	1000	20 x 2.0	M 6 x 25	130	100	65	58	108	50	39902
BSL 100	100	1000	20 x 2.0	M 6 x 25	140	110	70	63	118	50	39903
BSL 112	112	1000	20 x 2.0	M 6 x 25	160	125	80	71	133	25	39904
BSL 125	125	1000	20 x 2.0	M 6 x 25	172	136	86	76	144	25	39905
BSL 140	140	1000	20 x 2.0	M 6 x 25	188	150	94	83	158	25	39906
BSL 150	150	1000	20 x 2.0	M 6 x 25	195	154	98	85	162	25	39907
BSL 160	160	1000	20 x 2.0	M 6 x 25	212	172	106	94	180	25	39908
BSL 180	180	1000	20 x 2.0	M 6 x 25	220	178	110	97	186	25	39909
BSL 200	200	1000	20 x 2.0	M 6 x 25	252	212	126	114	220	10	39910
BSL 224	224	1000	25 x 2.0	M 6 x 25	276	237	138	126.5	245	25	39911
BSL 250	250	1000	25 x 2.0	M 6 x 25	302	263	151	139.5	271	10	39912
BSL 280	280	1000	25 x 2.0	M 6 x 25	332	293	166	154.5	301	10	39913
BSL 300	300	1000	25 x 2.0	M 6 x 25	352	313	176	164.5	321	10	39914
BSL 315	315	1000	25 x 2.0	M 6 x 25	368	328	184	172	336	25	39915
BSL 355	355	1000	25 x 2.0	M 6 x 25	408	368	204	192	376	10	39916
BSL 400	400	1000	25 x 2.0	M 6 x 25	452	413	226	214.5	421	10	39917
BSL 450	450	1000	30 x 2.5	M 10 x 50 / bolt M 10	514	464	257	240	472	1	39918
BSL 500	500	1000	30 x 2.5	M 10 x 50 / bolt M 10	564	514	282	265	522	1	39919
BSL 560	560	1000	30 x 2.5	M 10 x 50 / bolt M 10	624	574	312	295	582	1	39920
BSL 600	600	1000	30 x 2.5	M 10 x 50 / bolt M 10	664	614	332	315	622	1	39928
BSL 630	630	1000	30 x 2.5	M 10 x 50 / bolt M 10	694	644	347	330	652	1	39921
BSL 710	710	1000	30 x 2.5	M 10 x 50 / bolt M 10	774	724	387	370	732	1	39922
BSL 800	800	1000	30 x 2.5	M 10 x 50 / bolt M 10	864	814	432	415	822	1	39923
BSL 900	900	1000	30 x 2.5	M 10 x 50 / bolt M 10	964	914	482	465	922	1	39924
BSL 1000	1000	1000	30 x 2.5	M 10 x 50 / bolt M 10	1064	1014	532	515	1022	1	39925
BSL 1120	1120	1000	30 x 2.5	M 10 x 50 / bolt M 10	1184	1134	592	575	1142	1	39926
BSL 1250	1250	1000	30 x 2.5	M 10 x 50 / bolt M 10	1314	1264	657	640	1272	1	39927



BSL-A Clips

BSL-A clips are especially designed for mounting circular air duct work to the wall or ceiling and are fitted with a noise suppressing rubber lining.

- Noise suppression: 17 dB(A)* according to ISO 3822-1
(* To achieve good sound suppression do not overload the fitting).
- Clip: electrolytically zinc plated.
- Side connection bolt/threaded hole M 6.
- Close fitting to the wall or ceiling possible.
- Safety factor on max. working load(V) = 3.



Type	Ø Pipe ext. dia. [mm]	Max. working load [N]	Strip dimensions [mm]	Side-mounted connections	Dimensions						Order Code
					A [mm]	B [mm]	C [mm]	D [mm]	E [mm]		
BSL-A 71	71	1000	20 x 2.0	M 6 x 25	120	87	60	52	95	25	39950
BSL-A 80	80	1000	20 x 2.0	M 6 x 25	128	96	64	56	104	50	39951
BSL-A 90	90	1000	20 x 2.0	M 6 x 25	141	108	71	62	116	25	39952
BSL-A 100	100	1000	20 x 2.0	M 6 x 25	158	115	79	66	123	25	39953
BSL-A 112	112	1000	20 x 2.0	M 6 x 25	170	129	85	73	137	25	39954
BSL-A 125	125	1000	20 x 2.0	M 6 x 25	185	140	93	78	148	25	39955
BSL-A 140	140	1000	20 x 2.0	M 6 x 25	195	154	98	85	162	50	39956
BSL-A 150	150	1000	20 x 2.0	M 6 x 25	205	165	103	91	173	25	39957
BSL-A 160	160	1000	20 x 2.0	M 6 x 25	215	176	108	96	184	25	39958
BSL-A 180	180	1000	20 x 2.0	M 6 x 25	240	195	120	105.5	203	25	39959
BSL-A 200	200	1000	20 x 2.0	M 6 x 25	265	214	133	115	222	25	39960
BSL-A 224	224	1000	25 x 2.0	M 6 x 25	277	237	139	126.5	245	25	39961
BSL-A 250	250	1000	25 x 2.0	M 6 x 25	303	263	152	139.5	271	10	39962
BSL-A 280	280	1000	25 x 2.0	M 6 x 25	333	293	167	154.5	301	10	39963
BSL-A 300	300	1000	25 x 2.0	M 6 x 25	353	313	177	164.5	321	10	39964
BSL-A 315	315	1000	25 x 2.0	M 6 x 25	368	328	184	172	336	1	39965
BSL-A 355	355	1000	25 x 2.0	M 6 x 25	408	368	204	192	376	1	39966
BSL-A 400	400	1000	25 x 2.0	M 6 x 25	453	413	227	214.5	421	1	39967
BSL-A 450	450	1000	30 x 2.5	M 10 x 50 / bolt M 10	514	464	257	240	472	1	39968
BSL-A 500	500	1000	30 x 2.5	M 10 x 50 / bolt M 10	564	514	282	265	522	1	39969
BSL-A 560	560	1000	30 x 2.5	M 10 x 50 / bolt M 10	624	574	312	295	582	1	39970
BSL-A 600	600	1000	30 x 2.5	M 10 x 50 / bolt M 10	664	614	332	315	622	1	39978
BSL-A 630	630	1000	30 x 2.5	M 10 x 50 / bolt M 10	694	644	347	330	652	1	39971
BSL-A 710	710	1000	30 x 2.5	M 10 x 50 / bolt M 10	774	724	387	370	732	1	39972
BSL-A 800	800	1000	30 x 2.5	M 10 x 50 / bolt M 10	864	814	432	415	822	1	39973
BSL-A 900	900	1000	30 x 2.5	M 10 x 50 / bolt M 10	964	914	482	465	922	1	39974
BSL-A 1000	1000	1000	30 x 2.5	M 10 x 50 / bolt M 10	1064	1014	532	515	1022	1	39975
BSL-A 1120	1120	1000	30 x 2.5	M 10 x 50 / bolt M 10	1184	1134	592	575	1142	1	39976
BSL-A 1250	1250	1000	30 x 2.5	M 10 x 50 / bolt M 10	1314	1264	657	640	1272	1	39977