



DRIVEN BY POSSIBILITY™

1. TUBE CLAMPS STANDARD SERIES

TUBE CLAMPS

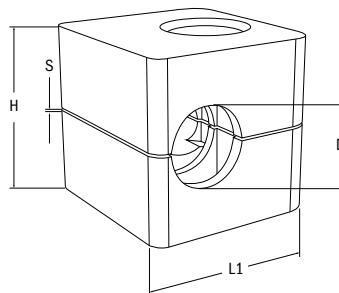
STANDARD SERIES



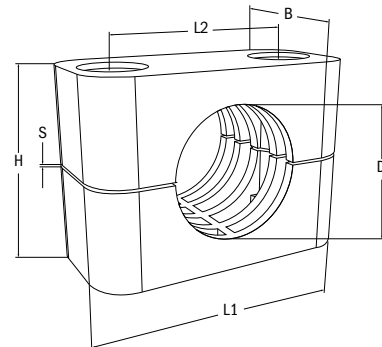
TC-S-P- ... , TUBE CLAMP BODY PROFILED DESIGN

PROFILED INSIDE SURFACE WITH TENSION CLEARANCE
ACCORDING TO DIN 3015/1

Material: Polypropylene (PP);
Polyamide (PA) and Aluminium (AL)
Thermoplastic Elastomer (TPE) on request



GROUP 0



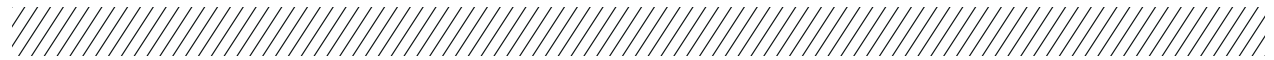
GROUP 1 TO 8

DIN GROUP	OUTSIDE DIAMETER TUBE		NOMINAL BORE	DIMENSIONS (MM)					PART DESCRIPTION		
	D (mm)	D (inch)	Pipe	L1	L2	H	S min	B	Polypropylene (PP)	Polyamide (PA)	Aluminium (AL)
0	6			28	/	27	0.4	30	TC-S-P-0-6-PP	TC-S-P-0-6-PA	on request
	6.4	1/4							TC-S-P-0-6.4-PP	TC-S-P-0-6.4-PA	on request
	8	5/16							TC-S-P-0-8-PP	TC-S-P-0-8-PA	on request
	9.5	3/8							TC-S-P-0-9.5-PP	TC-S-P-0-9.5-PA	on request
	10		1/8						TC-S-P-0-10-PP	TC-S-P-0-10-PA	on request
	12								TC-S-P-0-12-PP	TC-S-P-0-12-PA	on request
1	6			37	20	27	0.4	30	TC-S-P-1-6-PP	TC-S-P-1-6-PA	TC-S-P-1-6-AL
	6.4	1/4							TC-S-P-1-6.4-PP	TC-S-P-1-6.4-PA	TC-S-P-1-6.4-AL
	8	5/16							TC-S-P-1-8-PP	TC-S-P-1-8-PA	TC-S-P-1-8-AL
	9.5	3/8							TC-S-P-1-9.5-PP	TC-S-P-1-9.5-PA	TC-S-P-1-9.5-AL
	10		1/8						TC-S-P-1-10-PP	TC-S-P-1-10-PA	TC-S-P-1-10-AL
	12								TC-S-P-1-12-PP	TC-S-P-1-12-PA	TC-S-P-1-12-AL
2	12.7	1/2		42	26	33	0.6	30	TC-S-P-2-12.7-PP	TC-S-P-2-12.7-PA	TC-S-P-2-12.7-AL
	13.5		1/4						TC-S-P-2-13.5-PP	TC-S-P-2-13.5-PA	TC-S-P-2-13.5-AL
	14								TC-S-P-2-14-PP	TC-S-P-2-14-PA	TC-S-P-2-14-AL
	15								TC-S-P-2-15-PP	TC-S-P-2-15-PA	TC-S-P-2-15-AL
	16	5/8							TC-S-P-2-16-PP	TC-S-P-2-16-PA	TC-S-P-2-16-AL
	17.2		3/8						TC-S-P-2-17.2-PP	TC-S-P-2-17.2-PA	TC-S-P-2-17.2-AL
	18								TC-S-P-2-18-PP	TC-S-P-2-18-PA	TC-S-P-2-18-AL
	19	3/4							TC-S-P-3-19-PP	TC-S-P-3-19-PA	TC-S-P-3-19-AL
3	20			50	33	36	0.6	30	TC-S-P-3-20-PP	TC-S-P-3-20-PA	TC-S-P-3-20-AL
	21.3		1/2						TC-S-P-3-21.3-PP	TC-S-P-3-21.3-PA	TC-S-P-3-21.3-AL
	22	7/8							TC-S-P-3-22-PP	TC-S-P-3-22-PA	TC-S-P-3-22-AL
	25								TC-S-P-3-25-PP	TC-S-P-3-25-PA	TC-S-P-3-25-AL

Additional outside diameters and combinations of different outside diameters are available upon request

TUBE CLAMPS

STANDARD SERIES



DIN GROUP	OUTSIDE DIAMETER TUBE		NOMINAL BORE	DIMENSIONS (MM)					PART DESCRIPTION		
	D (mm)	D (inch)	Pipe	L1	L2	H	S min	B	Polypropylene (PP)	Polyamide (PA)	Aluminium (AL)
4	26.9		3/4	59	40	42	0.6	30	TC-S-P-4-26.9-PP	TC-S-P-4-26.9-PA	TC-S-P-4-26.9-AL
	28								TC-S-P-4-28-PP	TC-S-P-4-28-PA	TC-S-P-4-28-AL
	30								TC-S-P-4-30-PP	TC-S-P-4-30-PA	TC-S-P-4-30-AL
5	32	1 1/4		71	52	58	0.8	30	TC-S-P-5-32-PP	TC-S-P-5-32-PA	TC-S-P-5-32-AL
	33.7		1						TC-S-P-5-33.7-PP	TC-S-P-5-33.7-PA	TC-S-P-5-33.7-AL
	35								TC-S-P-5-35-PP	TC-S-P-5-35-PA	TC-S-P-5-35-AL
	38	1 1/2							TC-S-P-5-38-PP	TC-S-P-5-38-PA	TC-S-P-5-38-AL
	40								TC-S-P-5-40-PP	TC-S-P-5-40-PA	TC-S-P-5-40-AL
	42		1 1/4						TC-S-P-5-42-PP	TC-S-P-5-42-PA	TC-S-P-5-42-AL
6	44.5	1 3/4		86	66	66	0.8	30	TC-S-P-6-44.5-PP	TC-S-P-6-44.5-PA	TC-S-P-6-44.5-AL
	48.3		1 1/2						TC-S-P-6-48.3-PP	TC-S-P-6-48.3-PA	TC-S-P-6-48.3-AL
	50.8	2							TC-S-P-6-50.8-PP	TC-S-P-6-50.8-PA	TC-S-P-6-50.8-AL
7	57.2	2 1/4		121	94	93	0.8	30	TC-S-P-7-57.2-PP	TC-S-P-7-57.2-PA	on request
	60.3		2						TC-S-P-7-60.3-PP	TC-S-P-7-60.3-PA	on request
	63.5	2 1/2							TC-S-P-7-63.5-PP	TC-S-P-7-63.5-PA	on request
	70	2 3/4	2. 1/2 (ANSI B 36-10)						TC-S-P-7-70-PP	TC-S-P-7-70-PA	on request
	73		2. 1/2 (DIN EN 10220)						TC-S-P-7-73-PP	TC-S-P-7-73-PA	on request
	76.1	3	2 1/2						TC-S-P-7-76.1-PP	TC-S-P-7-76.1-PA	on request
8	88.9		3	147	120	118	0.8	30	TC-S-P-8-88.9-PP	TC-S-P-8-88.9-PA	on request
	102	4	3 1/2						TC-S-P-8-102-PP	TC-S-P-8-102-PA	on request

Additional outside diameters and combinations of different outside diameters are available upon request

TUBE CLAMPS

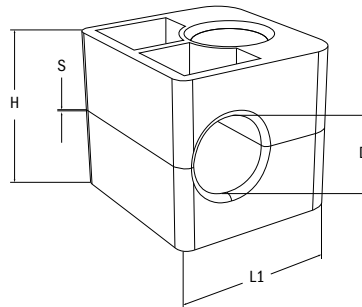
STANDARD SERIES



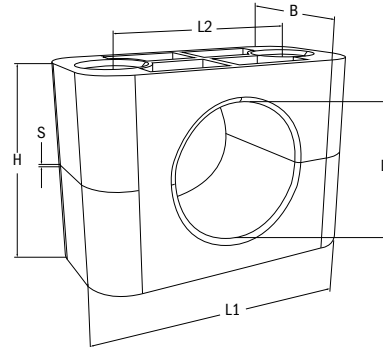
TC-S-S- ... , TUBE CLAMP BODY SMOOTH DESIGN

SMOOTH INSIDE SURFACE WITHOUT TENSION CLEARANCE
ACCORDING TO DIN 3015/1

Material: Polypropylene (PP);
Polyamide (PA) and Aluminium (AL)
Thermoplastic Elastomer (TPE) on request



GROUP 0



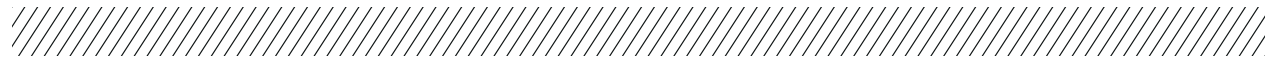
GROUP 1 TO 8

DIN GROUP	OUTSIDE DIAMETER TUBE		DIMENSIONS (MM)					PART DESCRIPTION	
	D (mm)	D (Inch)	L1	L2	H	S min	Width	Polypropylene (PP)	Polyamide (PA)
0	6		28	/	27	0.4	30	TC-S-S-0-6-PP	TC-S-S-0-6-PA
	6.4	1/4						TC-S-S-0-6.4-PP	TC-S-S-0-6.4-PA
	8	5/16						TC-S-S-0-8-PP	TC-S-S-0-8-PA
	9.5	3/8						TC-S-S-0-9.5-PP	TC-S-S-0-9.5-PA
	10							TC-S-S-0-10-PP	TC-S-S-0-10-PA
	12							TC-S-S-0-12-PP	TC-S-S-0-12-PA
1	6		37	20	27	0.4	30	TC-S-S-1-6-PP	TC-S-S-1-6-PA
	6.4	1/4						TC-S-S-1-6.4-PP	TC-S-S-1-6.4-PA
	8	5/16						TC-S-S-1-8-PP	TC-S-S-1-8-PA
	9.5	3/8						TC-S-S-1-9.5-PP	TC-S-S-1-9.5-PA
	10							TC-S-S-1-10-PP	TC-S-S-1-10-PA
	12							TC-S-S-1-12-PP	TC-S-S-1-12-PA
2	12.7	1/2	42	26	33	0.6	30	TC-S-S-2-12.7-PP	TC-S-S-2-12.7-PA
	13.5							TC-S-S-2-13.5-PP	TC-S-S-2-13.5-PA
	14							TC-S-S-2-14-PP	TC-S-S-2-14-PA
	15							TC-S-S-2-15-PP	TC-S-S-2-15-PA
	16	5/8						TC-S-S-2-16-PP	TC-S-S-2-16-PA
	17.2							TC-S-S-2-17.2-PP	TC-S-S-2-17.2-PA
	18							TC-S-S-2-18-PP	TC-S-S-2-18-PA
	19	3/4						TC-S-S-3-19-PP	TC-S-S-3-19-PA
3	20		50	33	36	0.6	30	TC-S-S-3-20-PP	TC-S-S-3-20-PA
	21.3							TC-S-S-3-21.3-PP	TC-S-S-3-21.3-PA
	22	7/8						TC-S-S-3-22-PP	TC-S-S-3-22-PA
	25	1						TC-S-S-3-25-PP	TC-S-S-3-25-PA
	26.9							TC-S-S-4-26.9-PP	TC-S-S-4-26.9-PA
4	28		59	40	42	0.6	30	TC-S-S-4-28-PP	TC-S-S-4-28-PA
	30							TC-S-S-4-30-PP	TC-S-S-4-30-PA

Additional outside diameters and combinations of different outside diameters are available upon request

TUBE CLAMPS

STANDARD SERIES



DIN GROUP	OUTSIDE DIAMETER TUBE		DIMENSIONS (MM)					PART DESCRIPTION	
	D (mm)	D (Inch)	L1	L2	H	S min	Width	Polypropylene (PP)	Polyamide (PA)
5	32	1.¼	71	52	58	0.8	30	TC-S-S-5-32-PP	TC-S-S-5-32-PA
	33.7							TC-S-S-5-33.7-PP	TC-S-S-5-33.7-PA
	35							TC-S-S-5-35-PP	TC-S-S-5-35-PA
	38	1.½						TC-S-S-5-38-PP	TC-S-S-5-38-PA
	40							TC-S-S-5-40-PP	TC-S-S-5-40-PA
	42							TC-S-S-5-42-PP	TC-S-S-5-42-PA
6	44.5	1.¾	86	66	66	0.8	30	TC-S-S-6-44.5-PP	TC-S-S-6-44.5-PA
	48.3							TC-S-S-6-48.3-PP	TC-S-S-6-48.3-PA
	50.8	2						TC-S-S-6-50.8-PP	TC-S-S-6-50.8-PA
7	57.2	2.¼	121	94	93	0.8	30	TC-S-S-7-57.2-PP	TC-S-S-7-57.2-PA
	60.3							TC-S-S-7-60.3-PP	TC-S-S-7-60.3-PA
	63.5	2.½						TC-S-S-7-63.5-PP	TC-S-S-7-63.5-PA
	70	2¾						TC-S-S-7-70-PP	TC-S-S-7-70-PA
	73							TC-S-S-7-73-PP	TC-S-S-7-73-PA
	76.1	3						TC-S-S-7-76.1-PP	TC-S-S-7-76.1-PA
8	88.9		147	120	118	0.8	30	TC-S-S-8-88.9-PP	TC-S-S-8-88.9-PA
	102	4						TC-S-S-8-102-PP	on request

Additional outside diameters and combinations of different outside diameters are available upon request

TUBE CLAMPS

STANDARD SERIES



WP ... , SINGLE WELDING PLATE

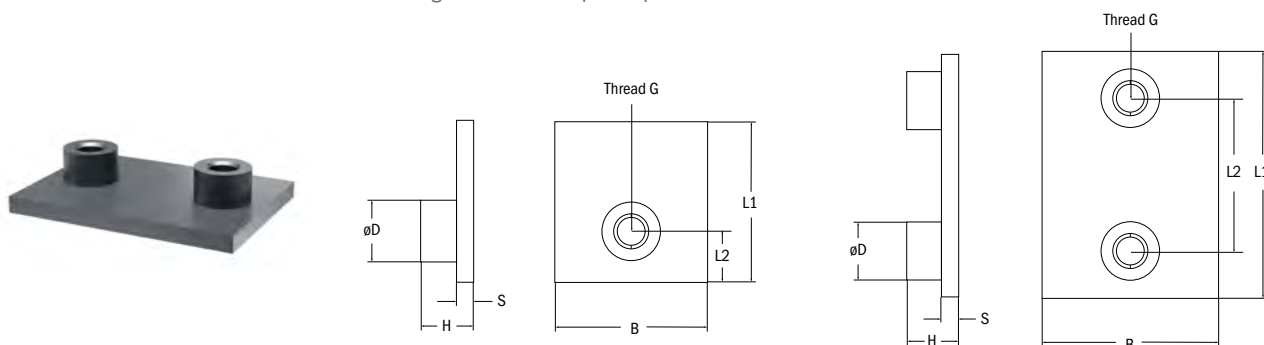
ACCORDING TO DIN 3015/1

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, phosphated (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316Ti (standard)

Alternative materials and surface finishings are available upon request.



GROUP 0

GROUP 1 TO 8

DIN GROUP	THREAD G	DIMENSIONS (MM)						PART DESCRIPTION	
	Metric	L1	L2	B	S	H	D	Phosphated (PH)	Stainless steel (V4A)
0	M6	28	/	30	3	6.5	12	WP-S-0-M-PH	WP-S-0-M-V4A
1	M6	36	20	30	3	6.5	12	WP-S-1-M-PH	WP-S-1-M-V4A
2	M6	42	26	30	3	6.5	12	WP-S-2-M-PH	WP-S-2-M-V4A
3	M6	50	33	30	3	6.5	12	WP-S-3-M-PH	WP-S-3-M-V4A
4	M6	60	40	30	3	6.5	12	WP-S-4-M-PH	WP-S-4-M-V4A
5	M6	71	52	30	3	6.5	12	WP-S-5-M-PH	WP-S-5-M-V4A
6	M6	88	66	30	3	6.5	12	WP-S-6-M-PH	WP-S-6-M-V4A
7	M6	122	94	30	5	6.5	12	WP-S-7-M-PH	WP-S-7-M-V4A
8	M6	148	120	30	5	6.5	12	WP-S-8-M-PH	WP-S-8-M-V4A

TUBE CLAMPS

STANDARD SERIES



EWP ... , ELONGATED WELDING PLATE

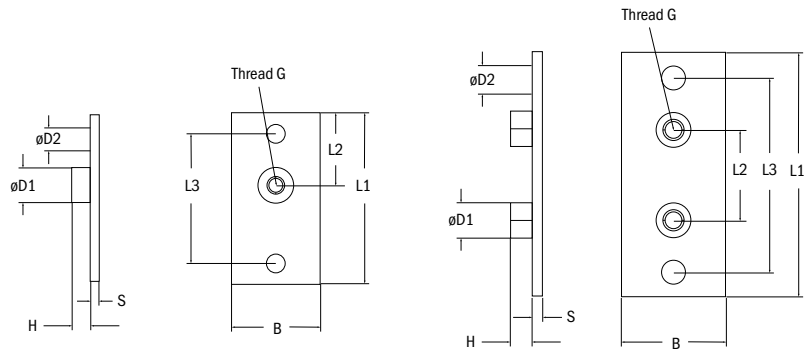
ACCORDING TO DIN 3015/1

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, phosphated (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316Ti (standard)

Alternative materials and surface finishings are available upon request.



GROUP 0

GROUP 1 TO 8

DIN GROUP	THREAD G	DIMENSIONS (MM)								PART DESCRIPTION	
	Metric	L1	L2	L3	B	S	H	D1	D2	Phosphated (PH)	Stainless steel (V4A)
0	M6	58	/	44	30	3	6.5	12	7	EWP-S-0-M-PH	EWP-S-0-M-V4A
1	M6	64	20	50	30	3	6.5	12	7	EWP-S-1-M-PH	EWP-S-1-M-V4A
2	M6	70	26	56	30	3	6.5	12	7	EWP-S-2-M-PH	EWP-S-2-M-V4A
3	M6	78	33	64	30	3	6.5	12	7	EWP-S-3-M-PH	EWP-S-3-M-V4A
4	M6	87	40	73	30	3	6.5	12	7	EWP-S-4-M-PH	EWP-S-4-M-V4A
5	M6	100	52	86	30	3	6.5	12	7	EWP-S-5-M-PH	EWP-S-5-M-V4A
6	M6	115	66	100	30	3	6.5	12	7	EWP-S-6-M-PH	EWP-S-6-M-V4A
7	M6	150	94	136	30	5	6.5	12	7	EWP-S-7-M-PH	EWP-S-7-M-V4A
8	M6	178	120	162	30	5	6.5	12	7	EWP-S-8-M-PH	EWP-S-8-M-V4A

TUBE CLAMPS

STANDARD SERIES



TWP ... , TWIN WELDING PLATE

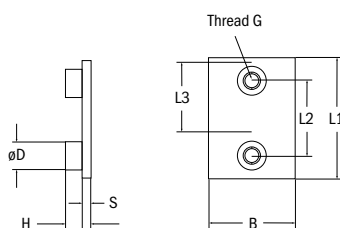
ACCORDING TO DIN 3015/1

Threads: Metric (standard); UNC/unified coarse (on request)

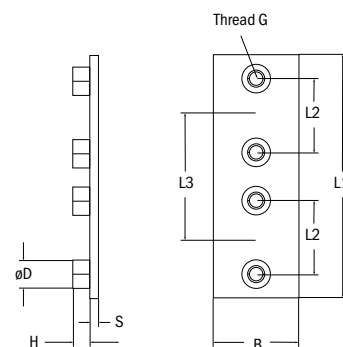
Material: Carbon steel, phosphated (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



GROUP 0



GROUP 1 TO 6

DIN GROUP	THREAD G	DIMENSIONS (MM)							PART DESCRIPTION	
	Metric	L1	L2	L3	B	S	H	D	Phosphated (PH)	Stainless steel (V4A)
0	M6	61	/	30	30	3	6.5	12	TWP-S-0-M-PH	on request
1	M6	77	20	37	30	3	6.5	12	TWP-S-1-M-PH	TWP-S-1-M-V4A
2	M6	86	26	44	30	3	6.5	12	TWP-S-2-M-PH	TWP-S-2-M-V4A
3	M6	104	33	52	30	3	6.5	12	TWP-S-3-M-PH	TWP-S-3-M-V4A
4	M6	117	40	60	30	3	6.5	12	TWP-S-4-M-PH	TWP-S-4-M-V4A
5	M6	145	52	75	30	3	6.5	12	TWP-S-5-M-PH	TWP-S-5-M-V4A
6	M6	176	66	90	30	3	6.5	12	TWP-S-6-M-PH	TWP-S-6-M-V4A

TUBE CLAMPS

STANDARD SERIES



GWP ... , GROUP WELDING PLATE

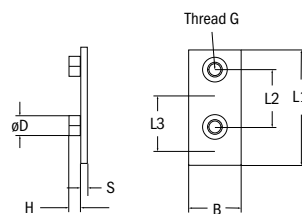
ACCORDING TO DIN 3015/1

Threads: Metric (standard); UNC/unified coarse (on request)

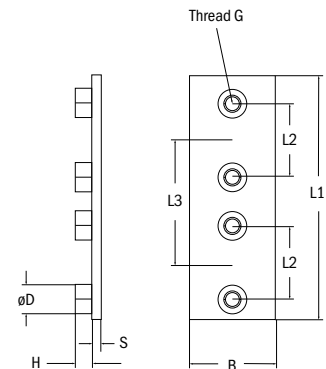
Material: Carbon steel, phosphated (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



GROUP 0



GROUP 1 TO 6

DIN GROUP	THREAD G	DIMENSIONS (MM)							PART DESCRIPTION	
	Metric	L1	L2	L3	B	S	H	D	Phosphated (PH)	Stainless steel (V4A)
0	M6	298	/	30	30	3	6.5	12	GWP-S-0-31-10-M-PH	GWP-S-0-31-10-M-V4A
1	M6	349	20	35	30	3	6.5	12	GWP-S-1-37-10-M-PH	GWP-S-1-37-10-M-V4A
2	M6	427	26	43	30	3	6.5	12	GWP-S-2-44-10-M-PH	GWP-S-2-44-10-M-V4A
3	M6	516	33	52	30	3	6.5	12	GWP-S-3-52-10-M-PH	GWP-S-3-52-10-M-V4A
4	M6	297	40	60	30	3	6.5	12	GWP-S-4-60-5-M-PH	on request
5	M6	370	52	75	30	3	6.5	12	GWP-S-5-75-5-M-PH	on request
6	M6	446	66	90	30	3	6.5	12	GWP-S-6-90-5-M-PH	on request

TUBE CLAMPS

STANDARD SERIES



RN ... , RAIL NUT

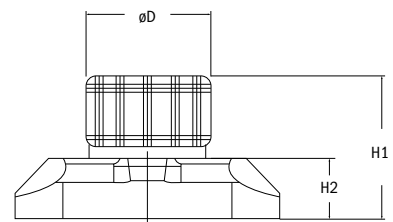
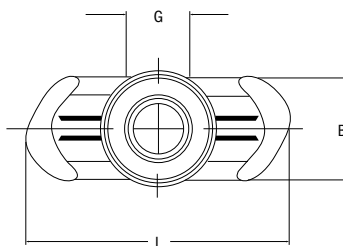
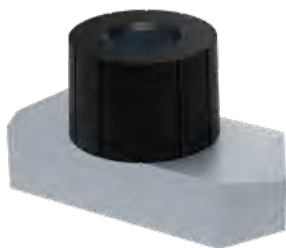
ACCORDING TO DIN 3015/1

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	THREAD G	DIMENSIONS (MM)					PART DESCRIPTION	
	Metric	L	B	H1	H2	D	Zink-Nickel (ZN)	Stainless steel (V4A)
0	M6	26	10.4	13	5	12	RN-S-1/8-M-ZN	RN-S-1/8-M-V4A
1								
2								
3								
4								
5								
6								
7								
8								

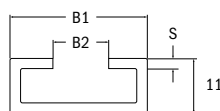
MR ... , MOUNTING RAIL

ACCORDING TO DIN 3015/1

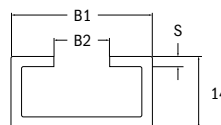
Material: Carbon steel, uncoated (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

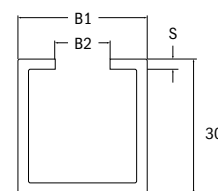
Alternative materials and surface finishings are available upon request.



Height : 11 mm



Height 14 mm



Height 30 mm

DIN GROUP	DIMENSIONS (MM)			PART DESCRIPTION			
	B1	B2	S	Uncoated (ROH) - 1 METER	Uncoated (ROH) - 2 METER	Stainless steel (V4A) - 1 METER	Stainless steel (V4A) - 2 METER
1	28	11	2	11mm: MR-S-11-1M-ROH 14mm: MR-S-14-1M-ROH 30mm: MR-S-30-1M-ROH	11mm: MR-S-11-2M-ROH 14mm: MR-S-14-2M-ROH 30mm: MR-S-30-2M-ROH	11mm: MR-S-11-1M-V4A 14mm: MR-S-14-1M-V4A 30mm: MR-S-30-1M-V4A	11mm: MR-S-11-2M-V4A 14mm: MR-S-14-2M-V4A 30mm: on request
2							
3							
4							
5							

Mounting rails are suitable for all twin series and standard series group sizes

TUBE CLAMPS

STANDARD SERIES



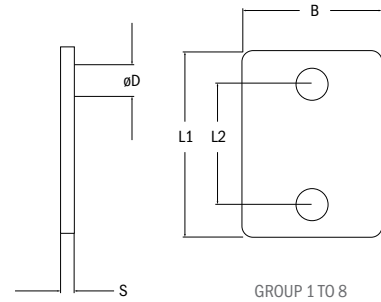
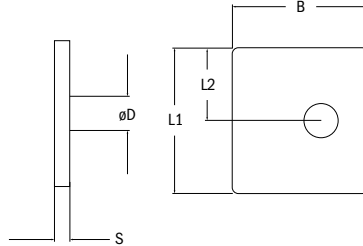
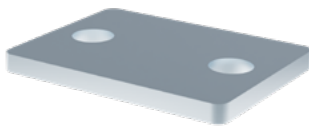
CP ... , COVER PLATE

ACCORDING TO DIN 3015/1

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	DIMENSIONS (MM)					PART DESCRIPTION	
	L1	L2	B	S	D	Zink-Nickel (ZN)	Stainless steel (V4A)
0	28	/	30	3	7	CP-S-0-ZN	CP-S-0-V4A
1	36	20	30	3	7	CP-S-1-ZN	CP-S-1-V4A
2	40.5	26	30	3	7	CP-S-2-ZN	CP-S-2-V4A
3	48	33	30	3	7	CP-S-3-ZN	CP-S-3-V4A
4	57	40	30	3	7	CP-S-4-ZN	CP-S-4-V4A
5	70	52	30	3	7	CP-S-5-ZN	CP-S-5-V4A
6	86	66	30	3	7	CP-S-6-ZN	CP-S-6-V4A
7	118	94	30	5	7	CP-S-7-ZN	CP-S-7-V4A
8	144	120	30	5	7	CP-S-8-ZN	CP-S-8-V4A

HB ... , HEXAGON HEAD BOLT

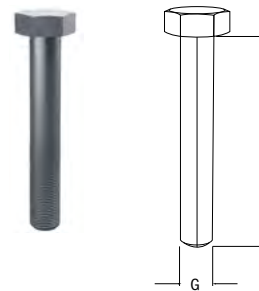
ACCORDING TO DIN 931 / 933 OR ANSI / ASME B18.2.1

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	THREAD G X L	PART DESCRIPTION	
	Metric	Zink-Nickel (ZN)	Stainless steel (V4A)
0	M6 x 30	HB-M6x30-ZN	HB-M6x30-V4A
1	M6 x 30	HB-M6x30-ZN	HB-M6x30-V4A
2	M6 x 35	HB-M6x35-ZN	HB-M6x35-V4A
3	M6 x 40	HB-M6x40-ZN	HB-M6x40-V4A
4	M6 x 45	HB-M6x45-ZN	HB-M6x45-V4A
5	M6 x 60	HB-M6x60-ZN	HB-M6x60-V4A
6	M6 x 70	HB-M6x70-ZN	HB-M6x70-V4A
7	M6 x 100	HB-M6x100-ZN	HB-M6x100-V4A
8	M6 x 125	HB-M6x125-ZN	HB-M6x125-V4A

Dimensions applicable only when used with cover plate

TUBE CLAMPS

STANDARD SERIES



SCS ... , SOCKET CAP SCREW

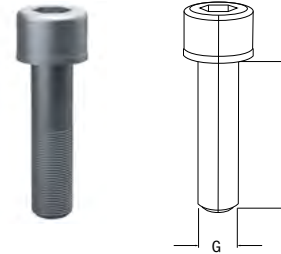
ACCORDING TO ISO 4762 OR ANSI / ASME B18.3

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	THREAD G X L	PART DESCRIPTION	
	Metric	Zink-Nickel (ZN)	Stainless steel (V4A)
0	M6 x 20	SHS-M6x20-ZN	SHS-M6x20-V4A
1	M6 x 20	SHS-M6x20-ZN	SHS-M6x20-V4A
2	M6 x 25	SHS-M6x25-ZN	SHS-M6x25-V4A
3	M6 x 30	SHS-M6x30-ZN	SHS-M6x30-V4A
4	M6 x 35	SHS-M6x35-ZN	SHS-M6x35-V4A
5	M6 x 50	SHS-M6x50-ZN	SHS-M6x50-V4A
6	M6 x 60	SHS-M6x60-ZN	SHS-M6x60-V4A
7	M6 x 90	SHS-M6x90-ZN	SHS-M6x90-V4A
8	M6 x 110	SHS-M6x110-ZN	SHS-M6x110-V4A

Dimensions applicable only when used with cover plate

SB ... , STACKING BOLT

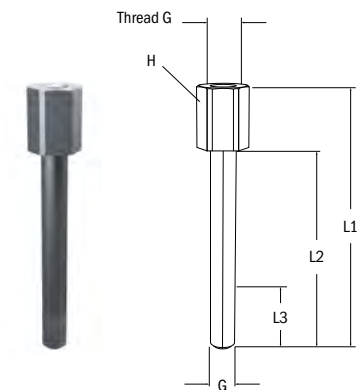
ACCORDING TO DIN 3015/1

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	THREAD G X L	DIMENSIONS (MM)				PART DESCRIPTION	
	Metric	L1	L2	L3 min	H	Zink-Nickel (ZN)	Stainless steel (V4A)
0	M6	34	20	12	11	SB-M6x20-ZN	SB-M6x20-V4A
1	M6	34	20	12	11	SB-M6x20-ZN	SB-M6x20-V4A
2	M6	39	25	12	11	SB-M6x25-ZN	SB-M6x25-V4A
3	M6	44	30	12	11	SB-M6x30-ZN	SB-M6x30-V4A
4	M6	49	35	12	11	SB-M6x35-ZN	SB-M6x35-V4A
5	M6	64	50	12	11	SB-M6x50-ZN	SB-M6x50-V4A
6	M6	74	60	12	11	SB-M6x60-ZN	SB-M6x60-V4A
7	M6	99	85	12	11	SB-M6x85-ZN	on request
8	M6	124	110	12	11	SB-M6x110-ZN	on request

TUBE CLAMPS

STANDARD SERIES



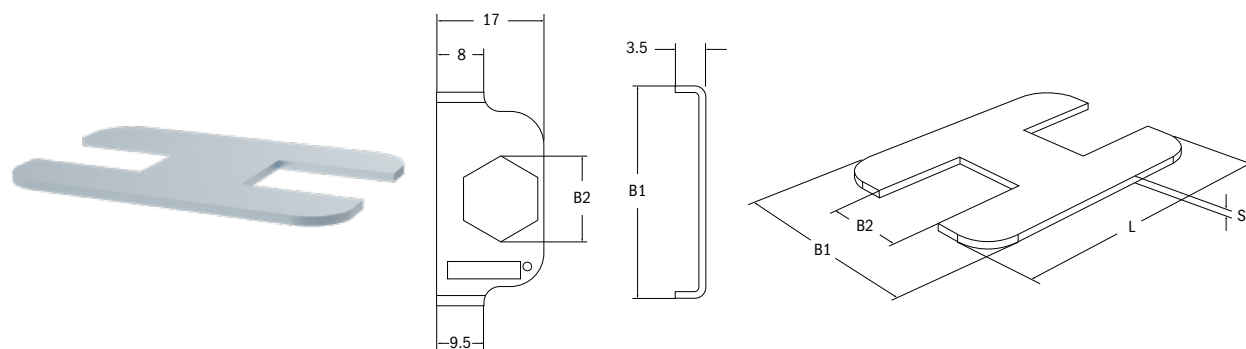
SLP ... , SAFETY LOCKING PLATE

ACCORDING TO DIN 3015/1

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



GROUP 0

GROUP 1 TO 8

DIN GROUP	DIMENSIONS (MM)				PART DESCRIPTION	
	L	B1	B2	S	Zink-Nickel (ZN)	Stainless steel (V4A)
0	17	30	11.5	/	SLP-S-0-ZN	SLP-S-0-V4A
1	34	30	11.3	3	SLP-S-1-ZN	SLP-S-1-V4A
2	40	30	11.3	3	SLP-S-2-ZN	SLP-S-2-V4A
3	47	30	11.3	3	SLP-S-3-ZN	SLP-S-3-V4A
4	56	30	11.3	3	SLP-S-4-ZN	SLP-S-4-V4A
5	69	30	11.3	3	SLP-S-5-ZN	SLP-S-5-V4A
6	85	30	11.3	3	SLP-S-6-ZN	SLP-S-6-V4A
7	117	30	11.3	3	SLP-S-7-ZN	on request
8	143	30	11.3	3	SLP-S-8-ZN	on request



DRIVEN BY POSSIBILITY™

2. TUBE CLAMPS STANDARD TWIN SERIES

TUBE CLAMPS

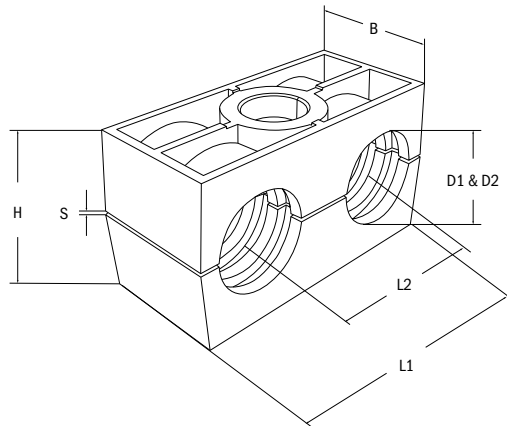
STANDARD TWIN SERIES



TC-S-P- ... , TUBE CLAMP BODY PROFILED DESIGN

PROFILED INSIDE SURFACE WITH TENSION CLEARANCE
ACCORDING TO DIN 3015/3

Material: Polypropylene (PP) and Polyamide (PA)



DIN GROUP	OUTSIDE DIAMETER TUBE		NOMINAL BORE	DIMENSIONS (MM)					PART DESCRIPTION	
	D1 & D2 (mm)	D1 & D2 (inch)	Pipe (inch)	L1	L2	H	S min	B	Polypropylene (PP)	Polyamide (PA)
1	6			36	20	27	0.8	30	TC-S-P-1-6/6-PP	TC-S-P-1-6/6-PA
	6.4	1/4							TC-S-P-1-6.4/6.4-PP	TC-S-P-1-6.4/6.4-PA
	8	5/16							TC-S-P-1-8/8-PP	TC-S-P-1-8/8-PA
	9.5	3/8							TC-S-P-1-9.5/9.5-PP	TC-S-P-1-9.5/9.5-PA
	10		1/8						TC-S-P-1-10/10-PP	TC-S-P-1-10/10-PA
	12								TC-S-P-1-12/12-PP	TC-S-P-1-12/12-PA
2	12.7	1/2		53	29	27	0.8	30	TC-S-P-2-12.7/12.7-PP	TC-S-P-2-12.7/12.7-PA
	13.5		1/4						TC-S-P-2-13.5/13.5-PP	TC-S-P-2-13.5/13.5-PA
	14								TC-S-P-2-14/14-PP	TC-S-P-2-14/14-PA
	15								TC-S-P-2-15/15-PP	TC-S-P-2-15/15-PA
	16	5/8							TC-S-P-2-16/16-PP	TC-S-P-2-16/16-PA
	17.2		3/8						TC-S-P-2-17.2/17.2-PP	TC-S-P-2-17.2/17.2-PA
3	18			67	36	37	0.8	30	TC-S-P-2-18/18-PP	TC-S-P-2-18/18-PA
	19	3/4							TC-S-P-3-19/19-PP	TC-S-P-3-19/19-PA
	20								TC-S-P-3-20/20-PP	TC-S-P-3-20/20-PA
	21.3		1/2						TC-S-P-3-21.3/21.3-PP	TC-S-P-3-21.3/21.3-PA
	22	7/8							TC-S-P-3-22/22-PP	TC-S-P-3-22/22-PA
	25								TC-S-P-3-25/25-PP	TC-S-P-3-25/25-PA
4	26.9		3/4	80	45	40	0.8	30	TC-S-P-4-26.9/26.9-PP	TC-S-P-4-26.9/26.9-PA
	28								TC-S-P-4-28/28-PP	TC-S-P-4-28/28-PA
	30								TC-S-P-4-30/30-PP	TC-S-P-4-30/30-PA
5	32	1 1/4		106	56	53	0.8	30	TC-S-P-5-32/32-PP	TC-S-P-5-32/32-PA
	33.7		1						TC-S-P-5-33.7/33.7-PP	TC-S-P-5-33.7/33.7-PA
	35								TC-S-P-5-35/35-PP	TC-S-P-5-35/35-PA
	38	1 1/2							TC-S-P-5-38/38-PP	TC-S-P-5-38/38-PA
	40								TC-S-P-5-40/40-PP	TC-S-P-5-40/40-PA
	42		1 1/4						TC-S-P-5-42/42-PP	TC-S-P-5-42/42-PA

Additional outside diameters and combinations of different outside diameters are available upon request

TUBE CLAMPS

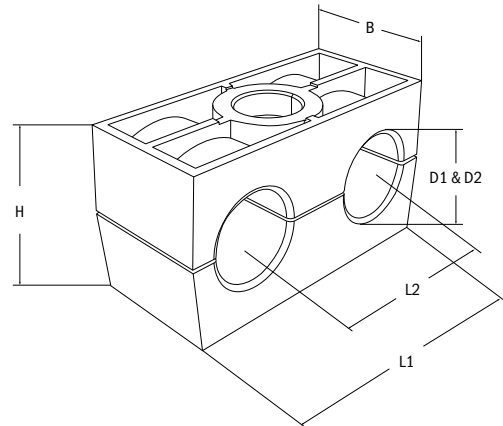
STANDARD TWIN SERIES



TC-S-S- ... , TUBE CLAMP BODY SMOOTH DESIGN

SMOOTH INSIDE SURFACE WITHOUT TENSION CLEARANCE
ACCORDING TO DIN 3015/3

Material: Polypropylene (PP) and Polyamide (PA)



DIN GROUP	OUTSIDE DIAMETER TUBE		DIMENSIONS (MM)					
	D1 & D2 (mm)	D1 & D2 (inch)	L1	L2	H	B	Polypropylene (PP)	Polyamide (PA)
1	6		36	20	27	30	TC-S-S-1-6/6-PP	TC-S-S-1-6/6-PA
	6.4	1/4					TC-S-S-1-6.4/6.4-PP	TC-S-S-1-6.4/6.4-PA
	8	5/16					TC-S-S-1-8/8-PP	TC-S-S-1-8/8-PA
	9.5	3/8					TC-S-S-1-9.5/9.5-PP	TC-S-S-1-9.5/9.5-PA
	10						TC-S-S-1-10/10-PP	TC-S-S-1-10/10-PA
	12						TC-S-S-1-12/12-PP	TC-S-S-1-12/12-PA
2	12.7	1/2	53	29	27	30	TC-S-S-2-12.7/12.7-PP	TC-S-S-2-12.7/12.7-PA
	13.5						TC-S-S-2-13.5/13.5-PP	TC-S-S-2-13.5/13.5-PA
	14						TC-S-S-2-14/14-PP	TC-S-S-2-14/14-PA
	15						TC-S-S-2-15/15-PP	TC-S-S-2-15/15-PA
	16	5/8					TC-S-S-2-16/16-PP	TC-S-S-2-16/16-PA
	17.2						TC-S-S-2-17.2/17.2-PP	TC-S-S-2-17.2/17.2-PA
3	18		67	36	37	30	TC-S-S-2-18/18-PP	TC-S-S-2-18/18-PA
	19	3/4					TC-S-S-3-19/19-PP	TC-S-S-3-19/19-PA
	20						TC-S-S-3-20/20-PP	TC-S-S-3-20/20-PA
	21.3						TC-S-S-3-21.3/21.3-PP	TC-S-S-3-21.3/21.3-PA
	22	7/8					TC-S-S-3-22/22-PP	TC-S-S-3-22/22-PA
	25						TC-S-S-3-25/25-PP	TC-S-S-3-25/25-PA
4	26.9		80	45	40	30	TC-S-S-4-26.9/26.9-PP	TC-S-S-4-26.9/26.9-PA
	28						TC-S-S-4-28/28-PP	TC-S-S-4-28/28-PA
	30						TC-S-S-4-30/30-PP	TC-S-S-4-30/30-PA
5	32	1 1/4	106	56	53	30	TC-S-S-5-32/32-PP	TC-S-S-5-32/32-PA
	33.7						TC-S-S-5-33.7/33.7-PP	TC-S-S-5-33.7/33.7-PA
	35						TC-S-S-5-35/35-PP	TC-S-S-5-35/35-PA
	38	1 1/2					TC-S-S-5-38/38-PP	TC-S-S-5-38/38-PA
	40						TC-S-S-5-40/40-PP	TC-S-S-5-40/40-PA
	42						TC-S-S-5-42/42-PP	TC-S-S-5-42/42-PA

Additional outside diameters and combinations of different outside diameters are available upon request

TUBE CLAMPS

STANDARD TWIN SERIES



WPT ... , SINGLE WELDING PLATE

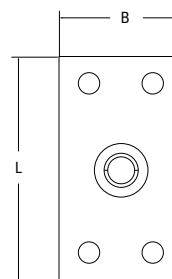
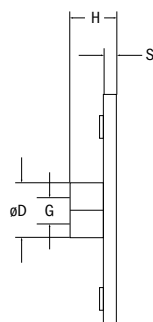
ACCORDING TO DIN 3015/3

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, phosphated (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	THREAD G	DIMENSIONS (MM)					PART DESCRIPTION	
	Metric	L	B	S	H	D	Phosphated (PH)	Stainless steel (V4A)
1	M6	37	30	3	6	12	WPT-S-1-M-PH	WPT-S-1-M-V4A
2	M8	55	30	5	6	14	WPT-S-2-M-PH	WPT-S-2-M-V4A
3	M8	70	30	5	6	14	WPT-S-3-M-PH	WPT-S-3-M-V4A
4	M8	85	30	5	6	14	WPT-S-4-M-PH	WPT-S-4-M-V4A
5	M8	110	30	5	6	14	WPT-S-5-M-PH	WPT-S-5-M-V4A

TUBE CLAMPS

STANDARD TWIN SERIES



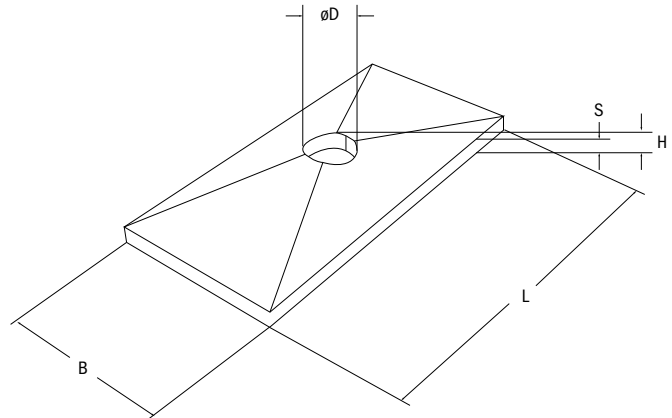
CPT ... , COVER PLATE

ACCORDING TO DIN 3015/3

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	DIMENSIONS (MM)					PART DESCRIPTION	
	L	B	H	S	D	Zink-Nickel (ZN)	Stainless steel (V4A)
1	34	30	7	3	7	CPT-S-1-ZN	CPT-S-1-V4A
2	52	30	7	3	9	CPT-S-2-ZN	CPT-S-2-V4A
3	65	30	7	3	9	CPT-S-3-ZN	CPT-S-3-V4A
4	79	30	7	3	9	CPT-S-4-ZN	CPT-S-4-V4A
5	102	30	7	3	9	CPT-S-5-ZN	CPT-S-5-V4A

TUBE CLAMPS

STANDARD TWIN SERIES



RNT ... , HEXAGON RAIL NUT

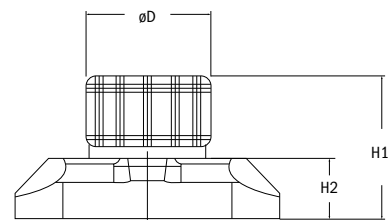
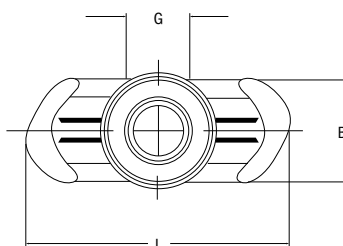
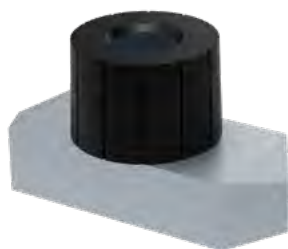
ACCORDING TO DIN 3015/3

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	THREAD G	DIMENSIONS (MM)					PART DESCRIPTION	
	Metric	L	B	H1	H2	D	Zink-Nickel (ZN)	Stainless steel (V4A)
1	M6	26	10.4	13	5	12	RN-S-1/8-M-ZN	RN-S-1/8-M-V4A
2	M8	26	10.4	13	5	14	RNT-S-2/5-M-ZN	RNT-S-2/5-M-V4A
3								
4								
5								

The hexagon rail nut, RN-S-1/8-M-ZN is also suitable for standard series, DIN group 0 to 8

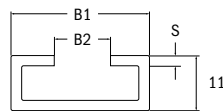
MR ... , MOUNTING RAIL

ACCORDING TO DIN 3015/1

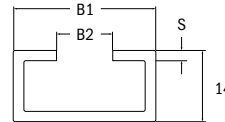
Material: Carbon steel, uncoated (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

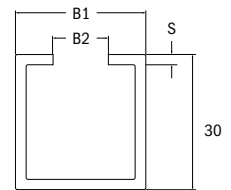
Alternative materials and surface finishings are available upon request.



Height : 11 mm



Height 14 mm



Height 30 mm

DIN GROUP	DIMENSIONS (MM)			PART DESCRIPTION			
	B1	B2	S	Uncoated (ROH) - 1 METER	Uncoated (ROH) - 2 METER	Stainless steel (V4A) - 1 METER	Stainless steel (V4A) - 2 METER
1	28	11	2	11mm: MR-S-11-1M-ROH 14mm: MR-S-14-1M-ROH 30mm: MR-S-30-1M-ROH	11mm: MR-S-11-2M-ROH 14mm: MR-S-14-2M-ROH 30mm: MR-S-30-2M-ROH	11mm: MR-S-11-1M-V4A 14mm: MR-S-14-1M-V4A 30mm: MR-S-30-1M-V4A	11mm: MR-S-11-2M-V4A 14mm: MR-S-14-2M-V4A 30mm: on request
2							
3							
4							
5							

Mounting rails are suitable for all twin series and standard series group sizes

TUBE CLAMPS

STANDARD TWIN SERIES



HB ... , HEXAGON HEAD BOLT

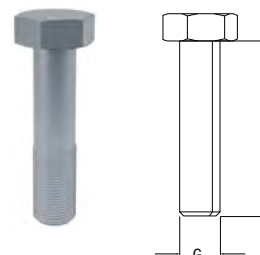
ACCORDING TO DIN 931 / 933 OR ANSI / ASME B18.2.1

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	THREAD G X L	PART DESCRIPTION	
	Metric	Zink-Nickel (ZN)	Stainless steel (V4A)
1	M6 x 35	HB-M6x35-ZN	HB-M6x35-V4A
2	M8 x 35	HB-M8x35-ZN	HB-M8x35-V4A
3	M8 x 45	HB-M8x45-ZN	HB-M8x45-V4A
4	M8 x 50	HB-M8x50-ZN	HB-M8x50-V4A
5	M8 x 60	HB-M8x60-ZN	HB-M8x60-V4A

Dimensions applicable only when used with cover plate

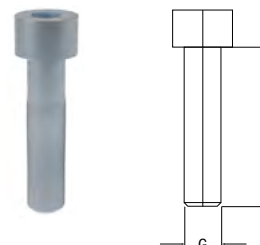
SCS ... , SOCKET CAP SCREW

ACCORDING TO ISO 4762 OR ANSI / ASME B18.3

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, Zink-Nickel (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	THREAD G X L	PART DESCRIPTION
	Metric	Zink-Nickel (ZN)
1	M6 x 35	SCS-M6x35-ZN
2	M8 x 35	SCS-M8x35-ZN
3	M8 x 45	SCS-M8x45-ZN
4	M8 x 50	SCS-M8x50-ZN
5	M8 x 60	SCS-M8x60-ZN

Dimensions applicable only when used with cover plate

TUBE CLAMPS

STANDARD TWIN SERIES



SB ... , STACKING BOLT

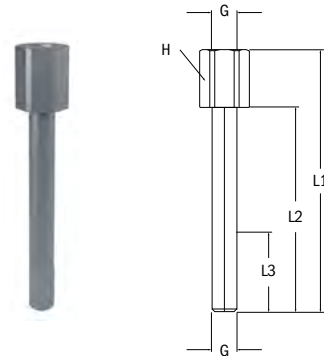
ACCORDING TO DIN 3015/3

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



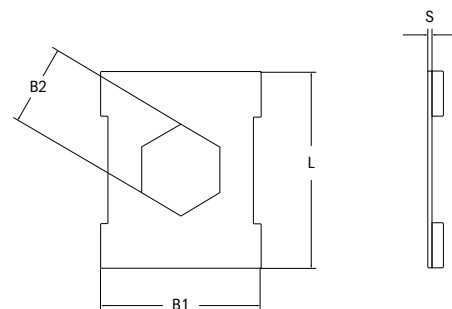
DIN GROUP	THREAD G X L	DIMENSIONS (MM)				PART DESCRIPTION	
	Metric	L1	L2	L3 min	H	Zink-Nickel (ZN)	Stainless steel (V4A)
1	M6	34	20	12	11	SB-M6x20-ZN	SB-M6x20-V4A
2	M8	33	20	12	12	SB-M8x20-ZN	SB-M8x20-V4A
3	M8	44	29	12	12	SB-M8x29-ZN	SB-M8x29-V4A
4	M8	49	34	12	12	SB-M8x34-ZN	SB-M8x34-V4A
5	M8	61	46	12	12	SB-M8x46-ZN	SB-M6x46-V4A

SLPT ... , SAFETY LOCKING PLATE TYPE A

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	DIMENSIONS (MM)				PART DESCRIPTION	
	L	B1	B2	S	Zink-Nickel (ZN)	Stainless steel (V4A)
1	27	22	11	1	SLPT-S-1-ZN	SLPT-S-1-V4A
2	27	22	12	1	SLPT-S-2/5-ZN	SLPT-S-2/5-V4A
3						
4						
5						

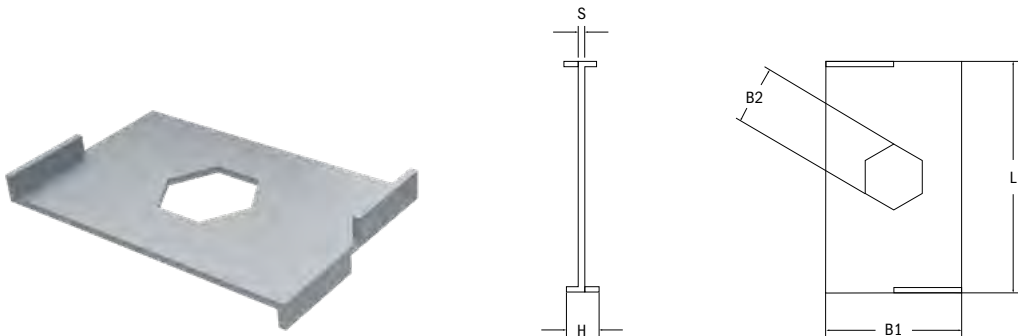
TUBE CLAMPS

STANDARD TWIN SERIES



SLPTB ... , SAFETY LOCKING PLATE TYPE B

Material: Carbon steel, Zink-Nickel (standard)
Alternative materials and surface finishings are available upon request.



DIN GROUP	DIMENSIONS (MM)				PART DESCRIPTION
	L	B1	B2	S	Zink-Nickel (ZN)
1	27	28	11	1	SLPTB-S-1-ZN
2	45	28	12	1	SLPTB-S-2/5-ZN
3					
4					
5					



DRIVEN BY POSSIBILITY™

3. TUBE CLAMPS HEAVY SERIES

TUBE CLAMPS

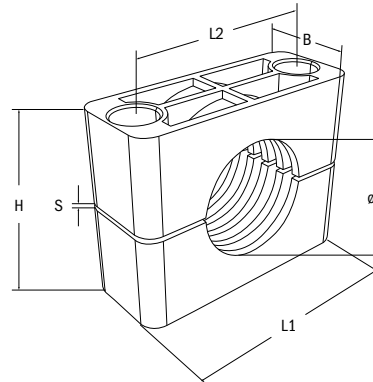
HEAVY SERIES



TC-H-P- ... , TUBE CLAMP BODY PROFILED DESIGN

PROFILED INSIDE SURFACE WITH TENSION CLEARANCE
ACCORDING TO DIN 3015/2

Material: Polypropylene (PP);
Polyamide (PA) and Aluminium (AL)
Thermoplastic Elastomer (TPE) on request

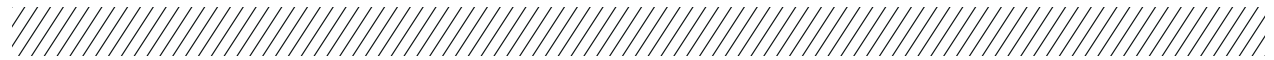


DIN GROUP	OUTSIDE DIAMETER TUBE		NOMINAL BORE	DIMENSIONS (MM)					PART DESCRIPTION		
	D (mm)	D (inch)	Pipe (inch)	L1	L2	H	S min	B	Polypropylene (PP)	Polyamide (PA)	Aluminium (AL)
1	6			55	33	32	2	30	TC-H-P-1-6-PP	TC-H-P-1-6-PA	TC-H-P-1-6-AL
	8	5/16							TC-H-P-1-8-PP	TC-H-P-1-8-PA	TC-H-P-1-8-AL
	9.5	3/8							TC-H-P-1-9.5-PP	TC-H-P-1-9.5-PA	TC-H-P-1-9.5-AL
	10		1/8						TC-H-P-1-10-PP	TC-H-P-1-10-PA	TC-H-P-1-10-AL
	12.7	1/2							TC-H-P-1-12.7-PP	TC-H-P-1-12.7-PA	TC-H-P-1-12.7-AL
	13.5		1/4						TC-H-P-1-13.5-PP	TC-H-P-1-13.5-PA	TC-H-P-1-13.5-AL
	14								TC-H-P-1-14-PP	TC-H-P-1-14-PA	TC-H-P-1-14-AL
	15								TC-H-P-1-15-PP	TC-H-P-1-15-PA	TC-H-P-1-15-AL
	16	5/8							TC-H-P-1-16-PP	TC-H-P-1-16-PA	TC-H-P-1-16-AL
	17.2		3/8						TC-H-P-1-17.2-PP	TC-H-P-1-17.2-PA	TC-H-P-1-17.2-AL
2	18			70	45	48	2	30	TC-H-P-1-18-PP	TC-H-P-1-18-PA	TC-H-P-1-18-AL
	18								TC-H-P-2-18-PP	TC-H-P-2-18-PA	TC-H-P-2-18-AL
	19	3/4							TC-H-P-2-19-PP	TC-H-P-2-19-PA	TC-H-P-2-19-AL
	20								TC-H-P-2-20-PP	TC-H-P-2-20-PA	TC-H-P-2-20-AL
	21.3		1/2						TC-H-P-2-21.3-PP	TC-H-P-2-21.3-PA	TC-H-P-2-21.3-AL
	22	7/8							TC-H-P-2-22-PP	TC-H-P-2-22-PA	TC-H-P-2-22-AL
	25								TC-H-P-2-25-PP	TC-H-P-2-25-PA	TC-H-P-2-25-AL
	26.9		3/4						TC-H-P-2-26.9-PP	TC-H-P-2-26.9-PA	TC-H-P-2-26.9-AL
	28								TC-H-P-2-28-PP	TC-H-P-2-28-PA	TC-H-P-2-28-AL
	30								TC-H-P-2-30-PP	TC-H-P-2-30-PA	TC-H-P-2-30-AL
3	30			85	60	60	2	30	TC-H-P-3-30-PP	TC-H-P-3-30-PA	TC-H-P-3-30-AL
	32	1 1/4							TC-H-P-3-32-PP	TC-H-P-3-32-PA	TC-H-P-3-32-AL
	33.7		1						TC-H-P-3-33.7-PP	TC-H-P-3-33.7-PA	TC-H-P-3-33.7-AL
	35								TC-H-P-3-35-PP	TC-H-P-3-35-PA	TC-H-P-3-35-AL
	38	1 1/2							TC-H-P-3-38-PP	TC-H-P-3-38-PA	TC-H-P-3-38-AL
	40								TC-H-P-3-40-PP	TC-H-P-3-40-PA	TC-H-P-3-40-AL
	42		1 1/4						TC-H-P-3-42-PP	TC-H-P-3-42-PA	TC-H-P-3-42-AL

Additional outside diameters and combinations of different outside diameters are available upon request

TUBE CLAMPS

HEAVY SERIES



DIN GROUP	OUTSIDE DIAMETER TUBE		NOMINAL BORE	DIMENSIONS (MM)					PART DESCRIPTION		
	D (mm)	D (inch)		L1	L2	H	S min	B	Polypropylene (PP)	Polyamide (PA)	Aluminium (AL)
4	42		1.¼	115	90	89	3	45	TC-H-P-4-42-PP	TC-H-P-4-42-PA	TC-H-P-4-42-AL
	44.5	1.¾							TC-H-P-4-44.5-PP	TC-H-P-4-44.5-PA	TC-H-P-4-44.5-AL
	48.3		1.½						TC-H-P-4-48.3-PP	TC-H-P-4-48.3-PA	TC-H-P-4-48.3-AL
	50.8	2							TC-H-P-4-50.8-PP	TC-H-P-4-50.8-PA	TC-H-P-4-50.8-AL
	55								TC-H-P-4-55-PP	TC-H-P-4-55-PA	TC-H-P-4-55-AL
	57	2.¼							TC-H-P-4-57-PP	TC-H-P-4-57-PA	TC-H-P-4-57-AL
	60.3		2						TC-H-P-4-60.3-PP	TC-H-P-4-60.3-PA	TC-H-P-4-60.3-AL
	63.5	2.½							TC-H-P-4-63.5-PP	TC-H-P-4-63.5-PA	TC-H-P-4-63.5-AL
	65								TC-H-P-4-65-PP	TC-H-P-4-65-PA	TC-H-P-4-65-AL
	70	2.¾							TC-H-P-4-70-PP	TC-H-P-4-70-PA	TC-H-P-4-70-AL
5	70	2.¾		150	122	120	3.5	60	TC-H-P-5-70-PP	TC-H-P-5-70-PA	TC-H-P-5-70-AL
	75								TC-H-P-5-75-PP	TC-H-P-5-75-PA	TC-H-P-5-75-AL
	76.1	3	2.½ (DIN EN 10220)						TC-H-P-5-76.1-PP	TC-H-P-5-76.1-PA	TC-H-P-5-76.1-AL
	80								TC-H-P-5-80-PP	TC-H-P-5-80-PA	TC-H-P-5-80-AL
	82.5	3.¼							TC-H-P-5-82.5-PP	TC-H-P-5-82.5-PA	TC-H-P-5-82.5-AL
	88.9	3.½	3						TC-H-P-5-88.9-PP	TC-H-P-5-88.9-PA	TC-H-P-5-88.9-AL
6	88.9	3.½	3	205	168	167	4	80	TC-H-P-6-88.9-PP	TC-H-P-6-88.9-PA	TC-H-P-6-88.9-AL
	100								TC-H-P-6-100-PP	TC-H-P-6-100-PA	TC-H-P-6-100-AL
	102	4	3.½						TC-H-P-6-102-PP	TC-H-P-6-102-PA	TC-H-P-6-102-AL
	108	4.¼							TC-H-P-6-108-PP	TC-H-P-6-108-PA	TC-H-P-6-108-AL
	114	4.½	4						TC-H-P-6-114-PP	TC-H-P-6-114-PA	TC-H-P-6-114-AL
	127	5							TC-H-P-6-127-PP	TC-H-P-6-127-PA	TC-H-P-6-127-AL
	133	5.¼							TC-H-P-6-133-PP	TC-H-P-6-133-PA	TC-H-P-6-133-AL
7	133	5.¼		250	205	200	4	90	TC-H-P-7-133-PP	TC-H-P-7-133-PA	TC-H-P-7-133-AL
	140		5						TC-H-P-7-140-PP	TC-H-P-7-140-PA	TC-H-P-7-140-AL
	152	6							TC-H-P-7-152-PP	TC-H-P-7-152-PA	TC-H-P-7-152-AL
	159	6.¼							TC-H-P-7-159-PP	TC-H-P-7-159-PA	TC-H-P-7-159-AL
	165	6.½							TC-H-P-7-165-PP	TC-H-P-7-165-PA	TC-H-P-7-165-AL
	168		6						TC-H-P-7-168-PP	TC-H-P-7-168-PA	TC-H-P-7-168-AL
	168		6						TC-H-P-8-168-PP	TC-H-P-8-168-PA	TC-H-P-8-168-AL
8	177.8	7		336	265	270	5	120	TC-H-P-8-177.8-PP	TC-H-P-8-177.8-PA	on request
	193.7	7.⅝							TC-H-P-8-193.7-PP	TC-H-P-8-193.7-PA	TC-H-P-8-193.7-AL
	216	8.½							TC-H-P-8-216-PP	TC-H-P-8-216-PA	TC-H-P-8-216-AL
	219		8						TC-H-P-8-219-PP	TC-H-P-8-219-PA	TC-H-P-8-219-AL
9	219		8	470	395	410	8	160	TC-H-P-9-219-PP	TC-H-P-9-219-PA	TC-H-P-9-219-AL
	273		10						TC-H-P-9-273-PP	TC-H-P-9-273-PA	TC-H-P-9-273-AL
	324		12						TC-H-P-9-324-PP	TC-H-P-9-324-PA	TC-H-P-9-324-AL
10	356		14	630	534	530	20	180	TC-H-P-10-356-PP	TC-H-P-10-356-PA	on request
	406		16						TC-H-P-10-406-PP	on request	on request

Additional outside diameters and combinations of different outside diameters are available upon request

TUBE CLAMPS

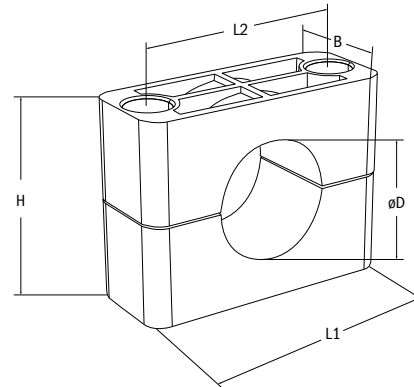
HEAVY SERIES



TC-H-S- ... , TUBE CLAMP BODY SMOOTH DESIGN

SMOOTH INSIDE SURFACE WITHOUT TENSION CLEARANCE
ACCORDING TO DIN 3015/2

Material: Polypropylene (PP) and Polyamide (PA)
Thermoplastic Elastomer (TPE) on request

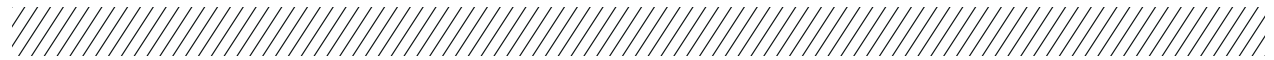


DIN GROUP	OUTSIDE DIAMETER HOSE		DIMENSIONS (MM)				PART DESCRIPTION	
	D (mm)	D (inch)	L1	L2	H	B	Polypropylene (PP)	Polyamide (PA)
1	6		55	33	32	30	TC-H-S-1-6-PP	TC-H-S-1-6-PA
	8	5/16					TC-H-S-1-8-PP	TC-H-S-1-8-PA
	9.5	3/8					TC-H-S-1-9.5-PP	TC-H-S-1-9.5-PA
	10						TC-H-S-1-10-PP	TC-H-S-1-10-PA
	12.7	1/2					TC-H-S-1-12.7-PP	TC-H-S-1-12.7-PA
	13.5						TC-H-S-1-13.5-PP	TC-H-S-1-13.5-PA
	14						TC-H-S-1-14-PP	TC-H-S-1-14-PA
	15						TC-H-S-1-15-PP	TC-H-S-1-15-PA
	16	5/8					TC-H-S-1-16-PP	TC-H-S-1-16-PA
	17.2						TC-H-S-1-17.2-PP	TC-H-S-1-17.2-PA
	18						TC-H-S-1-18-PP	TC-H-S-1-18-PA
2	18		70	45	48	30	TC-H-S-2-18-PP	TC-H-S-2-18-PA
	19	3/4					TC-H-S-2-19-PP	TC-H-S-2-19-PA
	20						TC-H-S-2-20-PP	TC-H-S-2-20-PA
	21.3						TC-H-S-2-21.3-PP	TC-H-S-2-21.3-PA
	22	7/8					TC-H-S-2-22-PP	TC-H-S-2-22-PA
	25						TC-H-S-2-25-PP	TC-H-S-2-25-PA
	26.9						TC-H-S-2-26.9-PP	TC-H-S-2-26.9-PA
	28						TC-H-S-2-28-PP	TC-H-S-2-28-PA
	30						TC-H-S-2-30-PP	TC-H-S-2-30-PA
3	30		85	60	60	30	TC-H-S-3-30-PP	TC-H-S-3-30-PA
	32	1 1/4					TC-H-S-3-32-PP	TC-H-S-3-32-PA
	33.7						TC-H-S-3-33.7-PP	TC-H-S-3-33.7-PA
	35						TC-H-S-3-35-PP	TC-H-S-3-35-PA
	38	1 1/2					TC-H-S-3-38-PP	TC-H-S-3-38-PA
	40						TC-H-S-3-40-PP	TC-H-S-3-40-PA
	42						TC-H-S-3-42-PP	TC-H-S-3-42-PA

Additional outside diameters and combinations of different outside diameters are available upon request

TUBE CLAMPS

HEAVY SERIES



DIN GROUP	OUTSIDE DIAMETER HOSE		DIMENSIONS (MM)				PART DESCRIPTION	
	D (mm)	D (inch)	L1	L2	H	B	Polypropylene (PP)	Polyamide (PA)
4	42		115	90	89	45	TC-H-S-4-42-PP	TC-H-S-4-42-PA
	44.5	1.¾					TC-H-S-4-44.5-PP	TC-H-S-4-44.5-PA
	48.3						TC-H-S-4-48.3-PP	TC-H-S-4-48.3-PA
	50.8	2					TC-H-S-4-50.8-PP	TC-H-S-4-50.8-PA
	55						TC-H-S-4-55-PP	TC-H-S-4-55-PA
	57	2.¼					TC-H-S-4-57-PP	TC-H-S-4-57-PA
	60.3						TC-H-S-4-60.3-PP	TC-H-S-4-60.3-PA
	63.5	2.½					TC-H-S-4-63.5-PP	TC-H-S-4-63.5-PA
	65						TC-H-S-4-65-PP	TC-H-S-4-65-PA
	70	2.¾					TC-H-S-4-70-PP	TC-H-S-4-70-PA

Additional outside diameters and combinations of different outside diameters are available upon request

TUBE CLAMPS

HEAVY SERIES



WP ... , WELDING PLATE FOR SINGLE CLAMPS

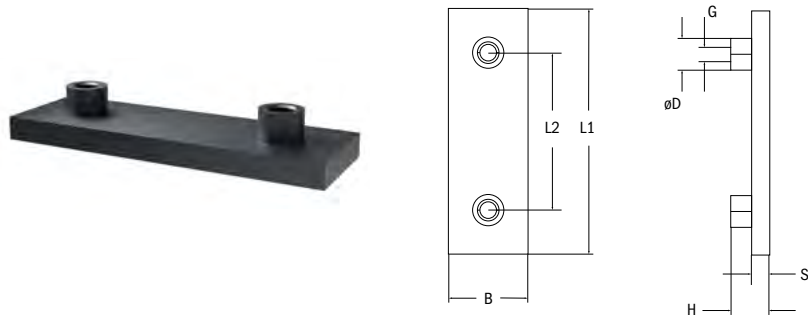
ACCORDING TO DIN 3015/2

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, phosphated (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	THREAD G	DIMENSIONS (MM)						PART DESCRIPTION	
	Metric	L1	L2	B	S	H	D	Phosphated (PH)	Stainless steel (V4A)
1	M10	74	33	30	8	8	18	WP-H-1-M-PH	WP-H-1-M-V4A
2	M10	85	45	30	8	8	18	WP-H-2-M-PH	WP-H-2-M-V4A
3	M10	100	60	30	8	8	18	WP-H-3-M-PH	WP-H-3-M-V4A
4	M12	140	90	45	10	8	20	WP-H-4-M-PH	WP-H-4-M-V4A
5	M16	180	122	60	10	12	24	WP-H-5-M-PH	WP-H-5-M-V4A
6	M20	225	168	80	15	18	30	WP-H-6-M-PH	on request
7	M24	270	205	90	15	21	30	WP-H-7-M-PH	on request
8	M30	340	265	120	25	21	35	WP-H-8-M-PH	on request
9	M30	520	395	160	30	38	40	WP-H-9-M-PH	on request
10	M30	680	534	180	30	38	40	WP-H-10-M-PH	on request

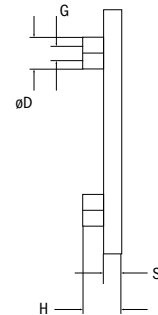
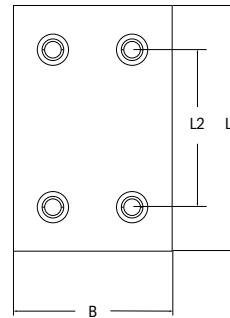
WPD ... , WELDING PLATE FOR DOUBLE CLAMPS

ACCORDING TO DIN 3015/2

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, phosphated (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	THREAD G	DIMENSIONS (MM)						PART DESCRIPTION
	Metric	L1	L2	B	S	H	D	Phosphated (PH)
1	M10	74	33	60	8	8	18	WPD-H-1-M-PH
2	M10	85	45	60	8	8	18	WPD-H-2-M-PH
3	M10	100	60	60	8	8	18	WPD-H-3-M-PH
4	M12	140	90	90	10	8	20	WPD-H-4-M-PH
5	M16	180	122	120	10	12	24	WPD-H-5-M-PH
6	M20	225	168	160	15	18	30	WPD-H-6-M-PH
7	M24	270	205	180	15	21	30	WPD-H-7-M-PH
8	M30	340	265	240	25	21	35	WPD-H-8-M-PH
9	M30	520	395	320	30	38	40	WPD-H-9-M-PH
10	M30	680	534	360	30	38	40	WPD-H-10-M-PH

TUBE CLAMPS

HEAVY SERIES



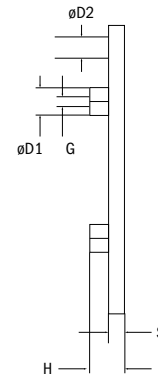
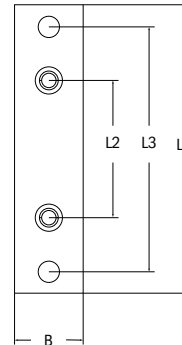
EWP ... , ELONGATED WELDING PLATE FOR SINGLE CLAMPS

ACCORDING TO DIN 3015/2

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, phosphated (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	THREAD G	DIMENSIONS (MM)								PART DESCRIPTION
	Metric	L1	L2	L3	B	S	H	D1	D2	Phosphated (PH)
1	M10	113	33	85	30	8	8	18	13	EWP-H-1-M-PH
2	M10	125	45	97	30	8	8	18	13	EWP-H-2-M-PH
3	M10	140	60	112	30	8	8	18	13	EWP-H-3-M-PH
4	M12	187	90	160	45	10	8	20	16	EWP-H-4-M-PH
5	M16	238	122	205	60	10	12	24	21	EWP-H-5-M-PH
6	M20	309	168	270	80	15	18	30	26	EWP-H-6-M-PH
7	M24	370	205	320	90	15	21	30	31	EWP-H-7-M-PH
8	M30	440	265	390	120	25	21	35	31	EWP-H-8-M-PH
9	M30	590	395	530	160	30	38	40	31	on request
10	M30	750	534	690	182	30	38	38	31	on request

TUBE CLAMPS

HEAVY SERIES



RN ... , RAIL NUT

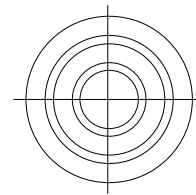
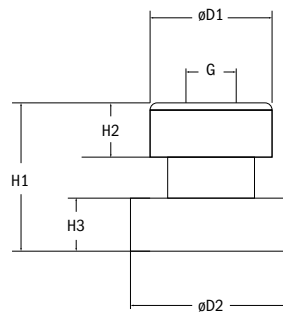
ACCORDING TO DIN 3015/2

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316Ti (standard)

Alternative materials and surface finishings are available upon request.

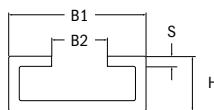


DIN GROUP	THREAD G	DIMENSIONS (MM)					PART DESCRIPTION	
	Metric	D1	D2	H1	H2	H3	Zink-Nickel (ZN)	Stainless steel (V4A)
1	M10	18	24	21	6	7	RN-H-1/3-M-ZN	RN-H-1/3-M-V4A
2								
3								
4	M12	20	24	21	7	7	RN-H-4-M-ZN	RN-H-4-M-V4A

MR ... , MOUNTING RAIL

ACCORDING TO DIN 3015/2

Material: Carbon steel, uncoated (standard)
 Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)
 Alternative materials and surface finishings are available upon request.



DIN GROUP	DIMENSIONS (MM)				PART DESCRIPTION			
	B1	B2	H	S	Uncoated (ROH) - 1 METER	Uncoated (ROH) - 2 METER	Stainless steel (V4A) - 1 METER	Stainless steel (V4A) - 2 METER
1	40	12	22	5	MR-H-1M-ROH	MR-H-2M-ROH	MR-H-1M-V4A	MR-H-2M-V4A
2								
3								
4								
5								

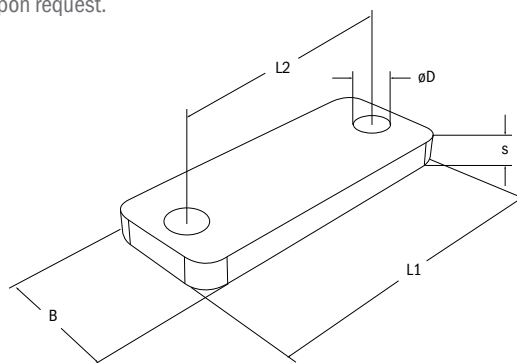
CP ... , COVER PLATE FOR SINGLE CLAMPS

ACCORDING TO DIN 3015/2

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	DIMENSIONS (MM)					PART DESCRIPTION	
	L1	L2	B	S	D	Zink-Nickel (ZN)	Stainless steel (V4A)
1	55	33	30	8	11	CP-H-1-ZN	CP-H-1-V4A
2	70	45	30	8	11	CP-H-2-ZN	CP-H-2-V4A
3	80	60	30	8	11	CP-H-3-ZN	CP-H-3-V4A
4	115	90	45	10	14	CP-H-4-ZN	CP-H-4-V4A
5	150	122	60	10	18	CP-H-5-ZN	CP-H-5-V4A
6	205	168	80	15	22	CP-H-6-ZN	CP-H-6-V4A
7	250	205	90	15	26	CP-H-7-ZN	CP-H-7-V4A
8	320	265	120	25	33	CP-H-8-ZN	CP-H-8-V4A
9	470	395	160	30	33	CP-H-9-ZN	on request
10	630	534	180	30	33	on request	on request

TUBE CLAMPS

HEAVY SERIES

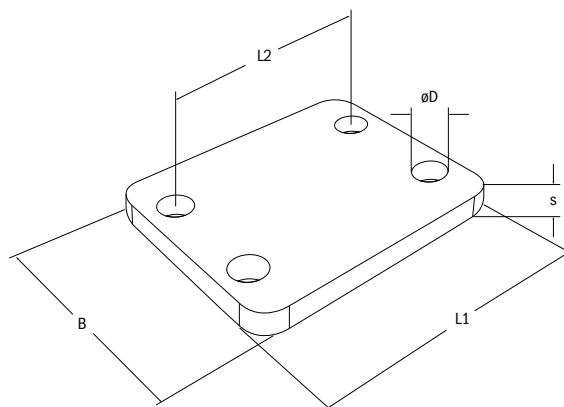


CPD ... , COVER PLATE FOR DOUBLE CLAMPS

ACCORDING TO DIN 3015/2

Material: Carbon steel, Zink-Nickel (standard)

Alternative materials and surface
finishings are available upon request.



DIN GROUP	DIMENSIONS (MM)					PART DESCRIPTION
	L1	L2	B	S	D	Zink-Nickel (ZN)
1	55	33	60	8	11	CPD-H-1-ZN
2	70	45	60	8	11	CPD-H-2-ZN
3	85	60	60	8	11	CPD-H-3-ZN
4	115	90	90	10	14	CPD-H-4-ZN
5	150	122	123	10	18	CPD-H-5-ZN
6	205	168	166	15	22	CPD-H-6-ZN
7	250	205	187	15	26	CPD-H-7-ZN
8	320	265	249	25	33	CPD-H-8-ZN
9	470	395	329	30	33	CPD-H-9-ZN
10	630	534	368	30	33	CPD-H-10-ZN

TUBE CLAMPS

HEAVY SERIES



HB ... , HEXAGON HEAD BOLT

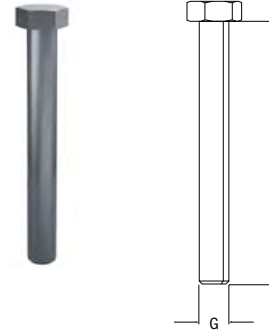
ACCORDING TO DIN 931 / 933 OR ANSI / ASME B18.2.1

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	THREAD G x L	PART DESCRIPTION	
	Metric	Zink-Nickel (ZN)	Stainless steel (V4A)
1	M10 x 45	HB-M10x45-ZN	HB-M10x45-V4A
2	M10 x 60	HB-M10x60-ZN	HB-M10x60-V4A
3	M10 x 70	HB-M10x70-ZN	HB-M10x70-V4A
4	M12 x 100	HB-M12x100-ZN	HB-M12x100-V4A
5	M16 x 130	HB-M16x130-ZN	HB-M16x130-V4A
6	M20 x 190	HB-M20x190-ZN	HB-M20x190-V4A
7	M24 x 220	HB-M24x220-ZN	HB-M24x220-V4A
8	M30 x 300	HB-M30x300-ZN	HB-M30x300-V4A
9	M30 x 450	HB-M30x450-ZN	on request
10	M30 x 560	on request	on request

Dimensions applicable only when installed without cover plates

SCS ... , SOCKET CAP SCREW

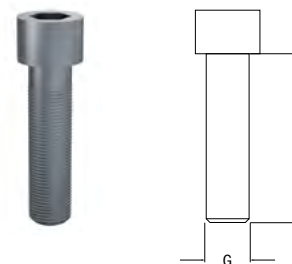
ACCORDING TO ISO 4762 OR ANSI / ASME B18.3

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	THREAD G x L	PART DESCRIPTION	
	Metric	Zink-Nickel (ZN)	Stainless steel (V4A)
1	M10 x 30	SCS-M10x30-ZN	SCS-M10x30-V4A
2	M10 x 40	SCS-M10x40-ZN	SCS-M10x40-V4A
3	M10 x 50	SCS-M10x50-ZN	SCS-M10x50-V4A
4	M12 x 80	SCS-M12x80-ZN	SCS-M12x80-V4A

Dimensions applicable only when installed without cover plates

TUBE CLAMPS

HEAVY SERIES



SB ... , STACKING BOLT

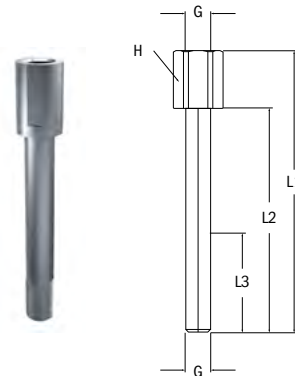
ACCORDING TO DIN 3015/2

Threads: Metric (standard); UNC/unified coarse (on request)

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	THREAD G X L	DIMENSIONS (MM)				PART DESCRIPTION	
	Metric	L1	L2	L3 min	H	Zink-Nickel (ZN)	Stainless steel (V4A)
1	M10	50	25	15	14	SB-M10x25-ZN	SB-M10x25-V4A
2	M10	65	40	15	14	SB-M10x40-ZN	SB-M10x40-V4A
3	M10	75	50	15	14	SB-M10x50-ZN	SB-M10x50-V4A
4	M12	110	80	18	17	SB-M12x80-ZN	SB-M12x80-V4A
5	M16	144	110	24	21	SB-M16x110-ZN	on request
6	M20	200	150	30	27	SB-M20x150-ZN	on request
7	M24	240	180	50	30	SB-M24x180-ZN	on request
8	M30	331	256	60	45	SB-M30x256-ZN	on request

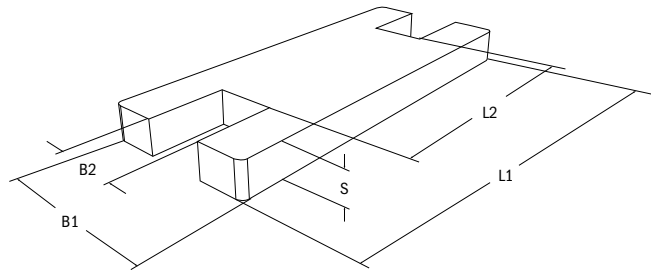
SLP ... , SAFETY LOCKING PLATE

ACCORDING TO DIN 3015/2

Material: Carbon steel, Zink-Nickel (standard)

Stainless steel V4A: 1.4401 / 1.4571 / AISI 316 / 316 Ti (standard)

Alternative materials and surface finishings are available upon request.



DIN GROUP	DIMENSIONS (MM)					PART DESCRIPTION	
	L1	L2	B1	B2	S	Zink-Nickel (ZN)	Stainless steel (V4A)
1	55	13	30	15	8	SLP-H-1-ZN	SLP-H-1-V4A
2	70	26	30	15	8	SLP-H-2-ZN	SLP-H-2-V4A
3	85	40	30	15	8	SLP-H-3-ZN	SLP-H-3-V4A
4	115	70	45	17	10	SLP-H-4-ZN	SLP-H-4-V4A
5	150	97	60	22	10	SLP-H-5-ZN	on request
6	205	130	80	28	15	SLP-H-6-ZN	on request
7	250	166	90	31	15	SLP-H-7-ZN	on request
8	320	205	120	49	25	SLP-H-8-ZN	on request