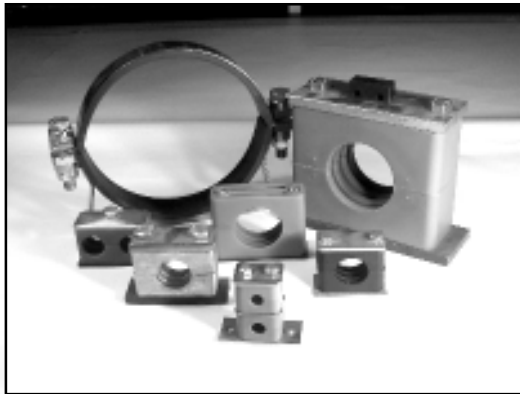




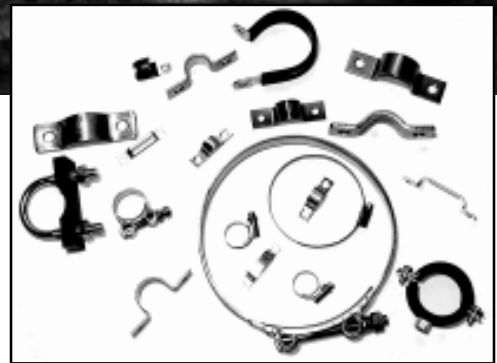
german engineering at your service

THE INNOVATIVE CHOICE

Clamps DIN 3015



WORLDWIDE PROVEN



Additional mounting range



R-K-EN-04

Spradow GmbH & Co. KG, Görlitzer Str. 13, D-33758 Schloß Holte-Stukenbrock
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Clamps in accordance to DIN 3015

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Further delivery range



Round steel strap DIN 3570 with tube support*



Steel clamps DIN 1592, 1593, 1596, 1597, 72571, 72573*



Steel clamp DIN 3016*



Carriage clamps*



Worm thread - Clamps DIN 3017*



Tension band - systems*



Joint bolt - clamps, one- and two-part*



Quick - release – clamps*



One- and two- ear - clamps*



Clamps DIN 3567 form A to D*



Exhaust-manifold clamp DIN 71555*



Screw clamp*



Carriage - system for tubes*



Tube sliding bearing*



Hose clip, type S*



Lightweight clamp*

*** Short-term - upon request**

Spradow – Clamps have been developed for rational mounting. They ensure a clear tube laying and result in a neat fixing optic. The field of application for **Spradow** – Clamps is nearly without limits.

Thanks to their high pressure and wear endurance as well as to the good cold-resistance, they are employed in many different areas:

- Industry-, mobile- and ship- hydraulic
- Piping construction
- Electrical engineering
- Building engineering
- Measuring - technology
- Controlling - technology

Different series and materials for the various mechanic and thermal conditions are at your disposal.

Spradow – Clamps are available for metric and inch outer diameters. Our delivery range comprises the following materials:

- PP (Polypropylen – green)*
- PA (Polyamid – black)*
- AL (Aluminium)*

Spradow – Clamps are produced in accordance with DIN 3015.

Very good sound and vibration absorbing abilities contribute largely to the emission control. Even during especially rough applications, **Spradow** – Clamps secure the supply network against vibrations.

*** Please enquire your requirements for special measures, qualities and colours.
Our team is always glad to assist you.**

The Material

Mechanical characteristics	Polypropylen PP	Polyamid PA	Aluminium Al Si12
Bending stress DIN 53 452	28 N/mm ²	130 N/mm ²	70 N/mm ²
Density	0,906 g/cm ³	1,12 g/cm ³	2,65 g/cm ³
Impact toughness DIN 53 453	without breaking	without Breaking	
Modulus of shear DIN 53 445	550 N/mm ²		
Yield stress DIN 53 455	25 N/mm ²	170 N/mm ²	180 N/mm ²
Thermal Characteristics	Polypropylen PP	Polyamid PA	Aluminium Al Si12
Max. temperature resistant	-30 to +90°C	-40 to +120°C	to 400°C
Thermal conductivity	0,22 W/[mk]	0,3 W/[mk]	126 W/[mk]
Coefficient of linear expansion	1,5x10 -4/°C	5x10 -5/°C	21x10 -6/°C
Electrical Characteristics	Polypropylen PP	Polyamid PA	Aluminium Al Si12
Current-flow resistance DIN 53482	10 ¹⁶ Ohm x cm	10 ¹⁰ Ohm x cm	Good
Non-tracking quality	KA 3 c	KA 3 c	Conductivity
Chemical Characteristics	Polypropylen PP	Polyamid PA	Aluminium Al Si12
Alcohol	Resistant	Resistant	Resistant
Petrol	Partially resistant	Resistant	Resistant
Mineral oil	Partially resistant	Resistant	Resistant
Light leaches	Resistant	Resistant	Partially resistant
Light acids	Partially resistant	Partially resistant	Partially resistant

These specifications are merely valid as guide numbers. Changes, as a result of technical development, are possible.

Stainless steel parts upon request

Weld plate- Assembly



E-weld the plate onto a solid foundation, press on half a clamp, insert tube and screw on the other half.

Attach tube turns on both sides directly after the ankle.

Mounting rail- Assembly



Insert the rail nut in the fixed rail, press on one clamp half and adjust it. Then, screw on the second clamp half.

Stacking- Assembly



Height linking of several clamps of the same clamp size with Stacking bolts.

Recommended clamp spacing

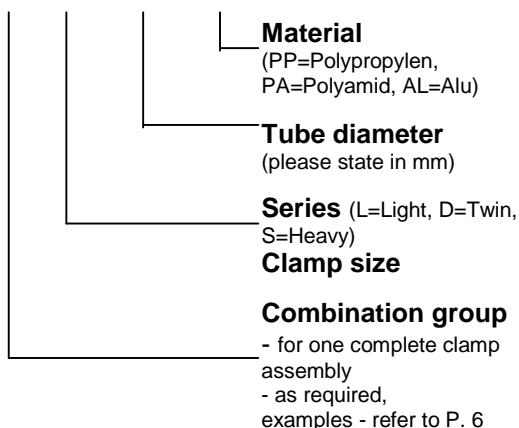
Outer tube - Ø	Clamp spacing in [m]
6 – 12,7	0,9
15,9 – 22,2	1,2
25,4	1,5
31,8 – 38,1	2,1
48,3	2,7
60,3	3
73	3,4
88,9	3,7
101,6	4
114,3	4,3

Recommended clamp spacing

Outer tube – Ø	Clamp spacing in [m]
141,3	4,9
168,3	5,2
219,1	5,8
273	6,7
323,9	7
355,6	7,6
406,4	8,2
457,2	8,5
508	9,1
558,8	9,8

Structure of our article number (see page 18, as well)

XX- XX XX XX

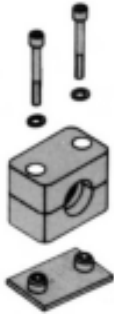


Tightening tension of the bolt in Nm

Series		Material	Polypropylen PP	Polyamid PA	Aluminium AL
Light		M 6	8	10	12
	Twin	1	M 6	5	6
2-4		M 8	12	12	-
5			8	8	-
Heavy	1	M 10	12	20	30
	2	M 10	12	20	30
	3	M 10	15	25	35
	4	M 12	30	40	55
	5	M 16	45	55	120
	6	M 20	90	180	280
	7	M 24	150	300	350
	8	M 30	250	500	700
	9	M 30	350	600	850
	10	M 30	350	600	850

Light – Series

Light-clamp with weld plate (AP) and socket head bolts*



Edition – K1-L...

Light-clamp with weld plate (AP), cover plate (DP) and hexagon head bolts*



Edition – K2-L...

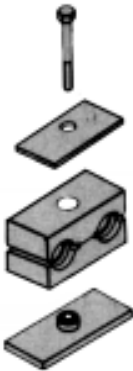
Light-clamp with rail nuts (SM), cover plate (DP) and hexagon head bolts*



Edition – K3-L...

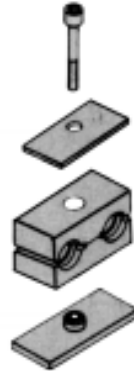
Twin – Series

Twin-Clamp with weld plate (AP), cover plate (DP) and hexagon head bolt*



Edition – K2-D...

Twin-Clamp with weld plate (AP), cover plate (DP) and socket head bolt*



Edition – K5-D...

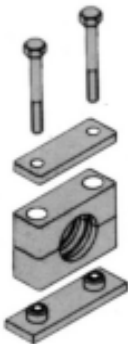
Twin-Clamp with rail nut (SM), cover plate (DP) and hexagon head bolt*



Edition – K3-D...

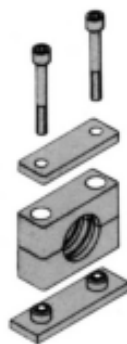
Heavy – Series

Heavy-clamp with weld plate (AP), cover plate (DP) and hexagon head bolts*



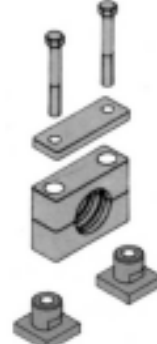
Edition – K2-S...

Heavy-clamp with weld plate (AP), cover plate (DP) and socket head bolts*



Edition – K5-S...

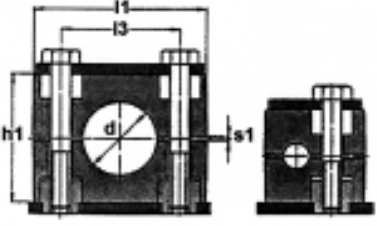


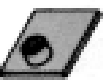
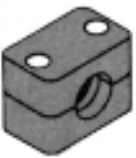


Heavy-clamp with rail nuts (blank), cover plate (DP) and hexagon head bolts*



Edition – K3-S...

*Other combination groups are possible by applying the different single parts as needed.
All combinations are delivered unfitted - **Prices upon request.**

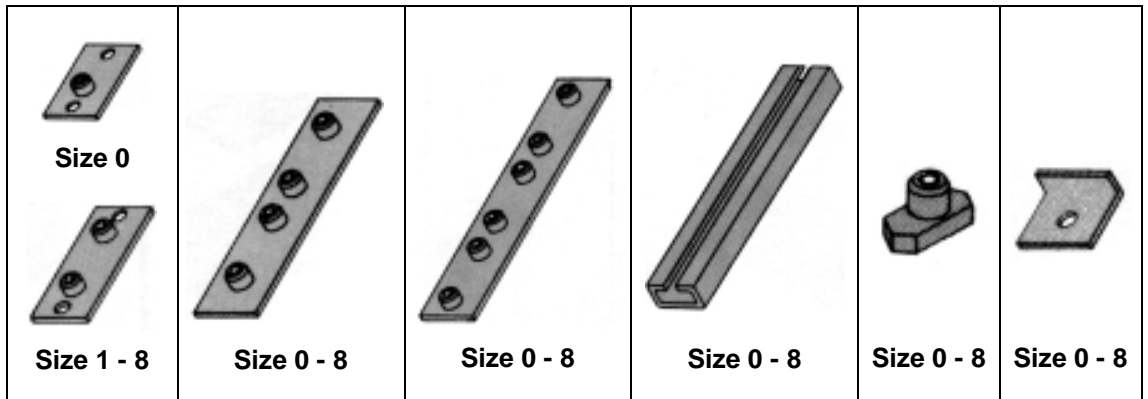
Light – Series - Single parts

Material code									 Size 0		 Size 0		 Size 0					
Material of the Clamp body - XX Polypropylen - PP Polyamid - PA Aluminium - AL									 Size 1 - 8		 Size 1 - 8		 Size 1 - 8					
Clamp-size	Tube diameter			h1	l1	l3	s1	Width of the clamp	Clamp body (2 halves) xx - see Material code	Cover plate	Weld plate single							
	metric	inch ID	inch AD															
0	06			27	28	-	0,4	30	L006 xx	LDP0 L=28mm W=30mm S= 3mm	LAP0 L=33mm W=30mm S= 3mm							
	6,4		1/4"															
	08		5/16"															
	9,5		3/8"															
	10	1/8"																
12								L010 xx										
									L012 xx									
1	06			27	37	20	0,4	30	L106 xx	LDP1 L=34mm W=30mm S= 3mm	LAP1 L=35mm W=30mm S= 3mm							
	6,4		1/4"															
	08		5/16"															
	9,5		3/8"															
	10	1/8"														L108 xx		
									L109,5 xx									
									L110 xx									
									L112 xx									
2	12,7		1/2"	33	42	26	0,6	30	L212,7 xx	LDP2 L=42mm W=30mm S= 3mm	LAP2 L=42mm W=30mm S= 3mm							
	13,5	1/4"																
	14																	
	15																	
	16		5/8"															
	17,2	3/8"														L215 xx		
									L216 xx									
									L217,2 xx									
									L218 xx									
3	19		3/4"	36	50	33	0,6	30	L319 xx	LDP3 L=50mm W=30mm S= 3mm	LAP3 L=49mm W=30mm S= 3mm							
	20																	
	21,3	1/2"																
	22		7/16"															
	25		1"													L321,3 xx		
									L322 xx									
									L325 xx									
4	26,9	3/4"		42	59	40	0,6	30	L426,9 xx	LDP4 L=58mm W=30mm S= 3mm	LAP4 L=60mm W=30mm S= 3mm							
	28																	
	30															L428 xx		
									L430 xx									
5	32		1 1/4"	58	71	52	0,8	30	L532 xx	LDP5 L=69mm W=30mm S= 3mm	LAP5 L=70mm W=30mm S= 3mm							
	33,7	1"																
	35																	
	38		1 1/2"															
	40															L533,7 xx		
									L535 xx									
									L538 xx									
									L540 xx									
									L542 xx									
6	44,5		1 3/4"	66	86	66	0,8	30	L644,5 xx	LDP6 L=86mm W=30mm S= 3mm	LAP6 L=88mm W=30mm S= 3mm							
	48,3	1 1/2"																
	50,8		2"													L648,3 xx		
									L650,8 xx									
7	57,2		2 1/4"	93	121	94	0,8	30	L757,2 xx	LDP7 on request	LAP7 on request							
	60,3	2"																
	63,5		2 1/2"															
	70		2 3/4"															
	73															L760,3 xx		
																	L763,5 xx	
									L770 xx									
									L773 xx									
		2 1/2"	3"						L776,1 xx									
8	88,9	3"		118	147	120	0,8	30	L888,9 xx	LDP8 on request	LAP8 on request							
	102		4"													L8102 xx		

Other thermoplastic materials, colours and tube diameters on request.

We reserve the right to change the technical performance. All dimensions in mm.







Light – Series - Single parts



Clamp-size	Tube Ø	Weld plate elongated	Weld plate twin	Weld plate group	Mounting rail	Rail nut	Connection angle
	metric						
0	06	LAPV0 L=51mm W=30mm S= 3mm	LAPD0 W=30mm S= 3mm	LAPR0 W=30mm S= 4mm TCD*=30mm	LTS11 (Height 11mm) W=28mm S= 2mm H=11mm L= 2 m		
	6,4						
	08						
	9,5						
	10						
1	12	LAPV1 L=64mm W=30mm S= 3mm	LAPD1/35 W=30mm S= 3mm TCD*=35mm LAPD1/40 TCD*=40mm	LAPR1/35 W=30mm S= 4mm TCD*=35mm LAPR1/40 TCD*=40mm			
	06						
	6,4						
	08						
	9,5						
2	10	LAPV2 L=70mm W=30mm S= 3mm	LAPD2/43 W=30mm S= 3mm TCD*=43mm LAPD2/52 TCD*=52mm	LAPR2/43 W=30mm S= 4mm TCD*=43mm LAPR2/52 TCD*=52mm			
	12,7						
	13,5						
	14						
	15						
3	16	LAPV3 L=78mm W=30mm S= 3mm	LAPD3/52 W=30mm S= 3mm TCD*=52mm LAPD3/75 TCD*=75mm	LAPR3/52 W=30mm S= 4mm TCD*=52mm LAPR3/75 TCD*=75mm	LTS14 (Height 14mm) W=28mm S= 2mm H=14mm L= 2 m	LSM M6	LBW (only for mounting rail LTS30)
	17,2						
	18						
	19						
	20						
4	21,3	LAPV4 L=87mm W=30mm S= 3mm	LAPD4 W=30mm S= 3mm TCD*=60mm	LAPR4 W=30mm S= 4mm TCD*=60mm			
	22						
	25						
5	26,9	LAPV5 L=100mm W=30mm S= 3mm	LAPD5 W=30mm S= 3mm TCD*=75mm	LAPR5 W=30mm S= 4mm TCD*=75mm	LTS30 (Height 30mm) W=28mm S= 2mm H=30mm L= 2 m		
	28						
	30						
	32						
	33,7						
6	35	LAPV6 L=114mm W=30mm S= 3mm	LAPD6 W=30mm S= 3mm TCD*=90mm	LAPR6 W=30mm S= 4mm TCD*=90mm			
	38						
	40						
	42						
	44,5						
7	48,3	LAPV7 on request	on request	LAPD7 on request			
	50,8						
	57,2						
	60,3						
	63,5						
8	70	LAPV8 on request	on request	LAPD8 on request			
	73						
	76,1						
	88,9						
	102						

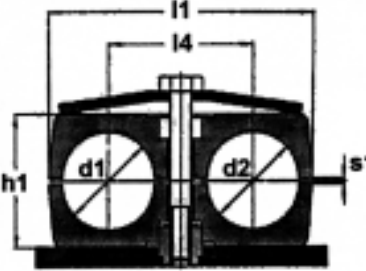
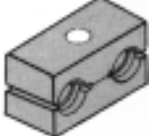


*TCD = tube center-to-center distance. - Other thermoplastic materials, colours and tube diameters on request.

We reserve the right to change the technical performance. All dimensions in mm.

Clamp-Size	Tube Ø metric	 Size 0  Size 1 - 8		 Size 0 - 8	 Size 0 - 8	 Size 0 - 8	 Size 0 - 8
		Locking plate	Hexagon head bolt	Socket head bolt + Supporting disk	Stacking bolt	Slot bolt	
0	06	LSP0	LAS1 M6x30	LIS1 M6x20	LAB1 M6x20	LSS1 M6x20	
	6,4						
	08						
	9,5						
	10						
1	12	LSP1	LAS2 M6x35	LIS2 M6x25	LABS2 M6x25	LSS2 M6x25	
	06						
	6,4						
	08						
	9,5						
2	10	LSP2	LAS3 M6x40	LIS3 M6x30	LABS3 M6x30	LSS3 M6x30	
	12,7						
	13,5						
	14						
	15						
3	16	LSP3	LAS4 M6x45	LIS4 M6x35	LABS4 M6x35	LSS4 M6x35	
	17,2						
	18						
	19						
	20						
4	21,3	LSP4	LAS5 M6x60	LIS5 M6x50	LABS5 M6x50	LSS5 M6x50	
	22						
	25						
	26,9						
	28						
5	30	LSP5	LAS6 M6x70	LIS6 M6x60	LABS6 M6x60	LSS6 M6x60	
	32						
	33,7						
	35						
	38						
6	40	LSP6	LAS7 M6x100	LIS7 M6x90	LABS7 M6x85	LSS7 On Request	
	42						
	44,5						
	48,3						
	50,8						
7	57,2	LSP7	LAS8 M6x125	LIS8 M6x110	LABS8 M6x110	LSS8 On Request	
	60,3						
	63,5						
	70						
	73						
8	76,1	LSP8					
	88,9						
	102						

Other thermoplastic materials, colours and tube diameters on request.

We reserve the right to change the technical performance. All dimensions in mm.

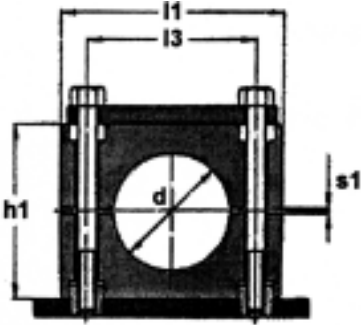
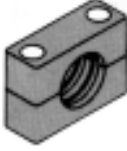


Material code														
Material of the clamp body - XX														
Polypropylen - PP									Size 1 - 5		Size 1 - 5		Size 1 - 5	
Polyamid - PA														
Clamp-size	Tube diameter			h1	l1	l4	s1	Width of the clamp	Clamp body (2 Halves) xx - see Material code	Cover plate	Weld plate			
	metric	inch ID	inch AD											
1	06			27	36	20	0,6	30	D106-06 xx	DDP1	DAP1			
	6,4		1/4"											
	08													
	9,5		3/8"											
	10	1/8"												
2	12			27	53	29	0,7	30	D108-08 xx	DDP2	DAP2			
	12,7		1/2"											
	13,5	1/4"												
	14													
	15		5/8"											
	16													
3	17,2	3/8"		37	67	36	0,7	30	D109,5-09,5 xx	DDP3	DAP3			
	19		3/4"											
	20													
	21,3	1/2"												
	22		7/16"											
4	25		1"	40	80	45	0,7	30	D110-10 xx	DDP4	DAP4			
	26,9	3/4"												
	28													
5	30			53	106	56	0,7	30	D112-12 xx	DDP5	DAP5			
	32		1 1/4"											
	33,7	1"												
	35													
	38		1 1/2"											
	40													
	42	1 1/4"												

Other thermoplastic materials, colours and tube diameters on request.

Clamp-size	Tube Ø	Mounting rail	Rail nut	Connection angle	Locking plate	Hexagon head bolt	Socket head bolt	Stacking bolt
	metric							
1	06	LTS11 (Height 11mm)	LSM M6	LBW (Only for Mounting rail LTS30)	DSB1	LAS2 M6x35	LIS4 M6x35	LAB1 M6x20
	6,4							
	08							
	9,5							
	10							
2	12,7	LTS14 (Height 14mm)	DSM M8	LBW (Only for Mounting rail LTS30)	DSB2	DAS2 M8x35	DIS2 M8x35	DAB2 M8x20
	13,5							
	14							
	15							
	16							
3	17,2	LTS14 (Height 14mm)	DSM M8	LBW (Only for Mounting rail LTS30)	DSB3	DAS3 M8x45	DIS3 M8x45	DAB3 M8x29
	18							
	19							
	20							
	21,3							
4	22	LTS30 (Height 30mm)	DSM M8	LBW (Only for Mounting rail LTS30)	DSB4	DAS4 M8x50	DIS4 M8x50	DAB4 M8x34
	25							
	26,9							
	28							
	30							
5	32	LTS30 (Height 30mm)	DSM M8	LBW (Only for Mounting rail LTS30)	DSB5	DAS5 M8x65	DIS5 M8x65	DAB5 M8x46
	33,7							
	35							
	38							
	40							
42								

Other thermoplastic materials, colours and tube diameters on request.

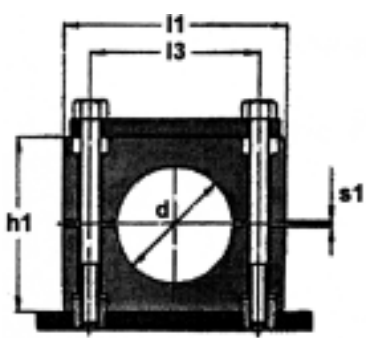
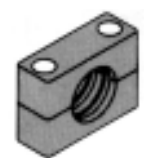


Heavy – Series - Single parts

Material code									 Size 1 - 10	 Size 1 - 10	 Size 1 - 10
Material of the Clamp body	- XX	Polypropylen	- PP								
Clamp-size	Tube diameter			h1	l1	l3	s1	Width of the clamp	Clamp body (2 Halves) xx - see Material code	Cover plate single	Cover plate double
	metric	inch ID	inch AD								
1	06			32	55	33	0,6	30	S106 xx	SDP1	SDDP1
	6,4		1/4"						S106,4 xx		
	08								S108 xx		
	9,5		3/8"						S109,5 xx		
	10	1/8"							S110 xx		
	12								S112 xx		
	12,7		1/2"						S112,7 xx		
	13,5	1/4"							S113,5 xx		
	14								S114 xx		
	15								S115 xx		
16		5/8"	S116 xx								
17,2	3/8"		S117,2 xx								
18			S118 xx								
2	19		3/4"	48	70	45	0,6	30	S219 xx	SDP2	SDDP2
	20								S220 xx		
	21,3	1/2"							S221,3 xx		
	22		7/8"						S222 xx		
	25								S225 xx		
	26,9	3/4"							S226,9 xx		
	28								S228 xx		
	30								S230 xx		
3	30			60	85	60	0,6	30	S330 xx	SDP3	SDDP3
	32		1 1/4"						S332 xx		
	33,7	1"							S333,7 xx		
	35								S335 xx		
	38		1 1/2"						S338 xx		
	40								S340 xx		
	42	1 1/4"							S342 xx		
4	38		1 1/2"	90	115	90	2	45	S438 xx	SDP4	SDDP4
	42	1 1/4"							S442 xx		
	44,5		1 3/4"						S444,5 xx		
	48,3	1 1/2"							S448,3 xx		
	50,8		2"						S450,8 xx		
	55								S455 xx		
	57		2 1/4"						S457 xx		
	60,3	2"							S460,3 xx		
	63,5		2 1/2"						S463,5 xx		
	65								S465 xx		
70			S470 xx								

Other thermoplastic materials, colours and tube diameters on request.









We reserve the right to change the technical performance. All dimensions in mm.

Heavy – Series - Single parts

Material code														
Material der Clamp body		- xx												
Polypropylen		- PP		Size 1 - 10		Size 1 - 10		Size 1 - 10						
Polyamid		- PA												
Aluminium		- AL												
Clamp-size	Tube diameter			h1	l1	l3	s1	Width of the clamp	Clamp body (2 Halves) xx - see Material code	Cover plate single	Cover plate double			
	metric	inch ID	inch AD											
5	65			120	152	122	2	60	S565 xx	SDP5	SDDP5			
	70													
	75													
	76,1	2 1/2"	3"											
	80													
	82,5		3 1/4"											
	88,9	3"												
6	88,9	3"		170	206	168	2	80	S688,9 xx	SDP6	SDDP6			
	100													
	102	3 1/2"												
	108		4 1/4"											
	114	4"												
	127		5"											
	133		5 1/4"											
7	133		5 1/4"	200	251	205	3	90	S7133 xx	SDP7	SDDP7			
	140	5"												
	152		6"											
	159		6 1/4"											
	165		6 1/2"											
	168	6"												
8	168	6"		270	336	265	3	120	S8168 xx	SDP8	SDDP8			
	177,8		7"											
	193,7		7 5/8"											
	216		8 1/2"											
	219													
9	219	8"		410	470	395	8	162	S9219 xx	SDP9	SDDP9			
	273	10"												
	324	12"												
10	356	14"		530	630	534	20	182	S10356 xx	SDP10	SDDP10			
	406	16"												









Other thermoplastic materials, colours and tube diameters on request.

We reserve the right to change the technical performance. All dimensions in mm.

									
		Size 1-10	Size 1-10	Size 1-10	Size 1-10	Size 1-10	Size 1-10	Size 1-10	Size 1-10
Clamp-size	Tube Ø metric	Weld plate	Weld plate double	Mounting rail	Rail nut	Locking plate	Hexagon head bolt	Socket head bolt	Stacking bolt
1	06	SAP1 L=73mm W=30mm S= 8mm	SAPD1 L=73mm W=60mm S= 8mm	STS W=40mm S= 5mm H=22mm L= 2 m	SSM1 M10	SSP1	SAS1 M10x45	SIS1 M10x45	SAB1 M10x27
	6,4								
	08								
	9,5								
	10								
	12								
	12,7								
	13,5								
14									
15									
16									
17,2									
18									
2	19	SAP2 L=85mm W=30mm S= 8mm	SAPD2 L=85mm W=60mm S= 8mm	STS W=40mm S= 5mm H=22mm L= 2 m	SSM1 M10	SSP2	SAS2 M10x60	SIS2 M10x60	SAB2 M10x42
	20								
	21,3								
	22								
	25								
	26,9								
28									
30									
3	30	SAP3 L=100mm W=30mm S= 8mm	SAPD3 L=100mm W=60mm S= 8mm	STS W=40mm S= 5mm H=22mm L= 2 m	SSM1 M10	SSP3	SAS3 M10x70	SIS3 M10x70	SAB3 M10x54
	32								
	33,7								
	35								
	38								
	40								
42									
4	38	SAP4 L=140mm W=45mm S= 10mm	SAPD4 L=140mm W=90mm S= 10mm	STS W=40mm S= 5mm H=22mm L= 2 m	SSM2 M12	SSP4	SAS4 M12x100	SIS4 M12x100	SAB4 M12x82
	42								
	44,5								
	48,3								
	50,8								
	55								
	57								
	60,3								
	63,5								
	65								
70									

Other thermoplastic materials, colours and tube diameters on request.

We reserve the right to change the technical performance. All dimensions in mm.

									
		Size 1-10	Size 1-10	Size 1-10	Size 1-10	Size 1-10	Size 1-10	Size 1-10	Size 1-10
Clamp-size	Tube Ø	Weld plate	Weld plate double	Mounting rail	Rail nut	Locking plate	Hexagon head bolt	Socket head bolt	Stacking bolt
	metric								
5	65	SAP5 L=180mm W= 60mm S= 10mm	SAPD5 L=180mm W=120mm S= 10mm			SSP5	SAS5 M16x130	SIS5 M16x130	SAB5 M16x108
	70								
	75								
	76,1								
	80								
	82,5								
6	88,9	SAP6 L=225mm W= 80mm S= 15mm	SAPD6 L=225mm W=160mm S= 15mm			SSP6	SAS6 M20x190	SIS6 M20x190	SAB6 M20x150
	100								
	102								
	108								
	114								
	127								
7	133	SAP7 L=270mm W= 90mm S= 15mm	SAPD7 L=270mm W=180mm S= 15mm	-	-	SSP7	SAS7 M24x220	SIS7 M24x220	SAB7 M24x186
	140								
	152								
	159								
	165								
	168								
8	168	SAP8 L=340mm W=120mm S= 25mm	SAPD8 L=340mm W=240mm S= 25mm			SSP8	SAS8 M30x300	SIS8 M30x300	SAB8 M30x255
	177,8								
	193,7								
	216								
	219								
9	219	SAP9 L=520mm W=160mm S= 30mm	SAPD9 L=520mm W=320mm S= 30mm			SSP9	SAS9 M30x450	-	SAB9 M30x380
	273								
	324								
10	356	SAP10 L=680mm W=180mm S= 30mm	SAPD10 L=680mm W=360mm S= 30mm			SSP10	SAS10 M30x560	-	SAB10 M30x500
	406								

Other thermoplastic materials, colours and tube diameters on request.

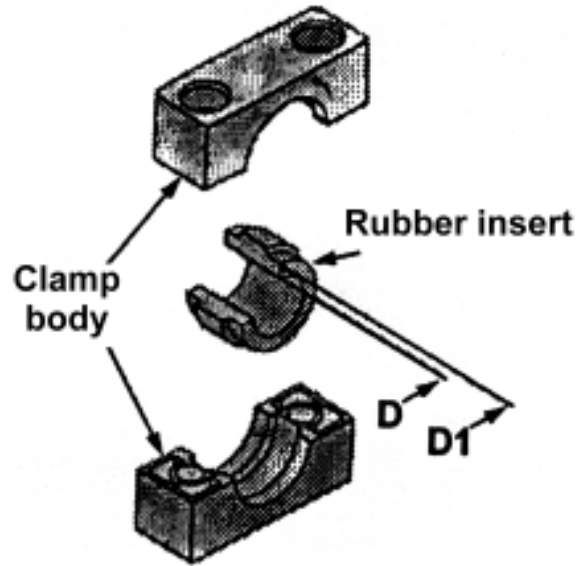
We reserve the right to change the technical performance. All dimensions in mm.

Clamp with rubber insert - Light - Series

This clamp is a special design for the sound and vibration isolation.

The ring insert made of Santoprene® gently compensates vibrations.

Thus, the sound level is very low and the material wear of the pipe or tube is considerably lower.



D in mm (Outer tube diameter)	D1 in mm	Clamp-size	Rubber insert	Clamp-body
			Article - number	Article - number
10	25,4	4	LGE410	L4-PPGE
12			LGE412	
12,7			LGE412,7	
14			LGE414	
15			LGE415	
16			LGE416	
17,2			LGE417,2	
18			LGE418	
19			LGE419	
20	39	6	LGE620	L6-PPGE
21,3			LGE621,3	
22			LGE622	
25			LGE625	
26,9			LGE626,9	
28			LGE628	
30			LGE630	
32			LGE632	

Please note!

In this edition, the plastic bodies vary largely from those of the other clamps. Thus, the clamps are now assigned to other tube diameters than in the standard series.

The clamp bodies must be notably larger, as they have to receive the Santoprene® rubber inserts.

Material characteristics of the rubber insert (GE) made of Santoprene®:

Stability: **73 - 87°**
 E-module: **3,5 - 6,9 N/mm²**
 Tensile strength: **8,5 - 15,5 N/mm²**
 Max. Temperature resistant:
-40 to + 120°C

Chemical Characteristics:

Santoprene® is resistant to light acids and partially resistant to petrol and mineral oil.

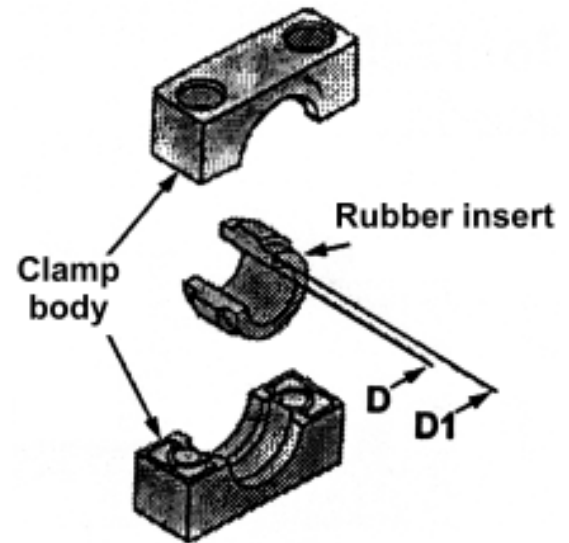
The standard Santoprene® - insert is black.

Clamp with rubber insert - Heavy - Series

This clamp is a special design for the sound and vibration isolation.

The ring insert made of Santoprene® gently compensates vibrations.

Thus, the sound level is very low and the material wear of the pipe or tube is considerably lower.



D in mm (Outer tube diameter)	D1 in mm	Clamp-size	rubber insert	Clamp-body
			Article - number	Article - number
10	25,4	2	SGE210	S2-PPGE
12			SGE212	
12,7			SGE212,7	
14			SGE214	
15			SGE215	
16			SGE216	
17,2			SGE217,2	
18			SGE218	
19			SGE219	
20	39	3	SGE320	S3-PPGE
21,3			SGE321,3	
22			SGE322	
25			SGE325	
26,9			SGE326,9	
28			SGE328	
30			SGE330	
32			SGE332	
32			65	
33,7	SGE433,7			
35	SGE435			
38,7	SGE438,7			
40	SGE440			
42	SGE442			
45,5	SGE445,5			
48	SGE448			
51	SGE451			
53,4	89	5	SGE453,4	S5-PPGE
56,4			SGE456,4	
55			SGE555	
57			SGE557	
60			SGE560	
65			SGE565	
70			SGE570	
72			SGE572	
76			SGE576	
80	116	6	SGE680	S6-PPGE
88,9			SGE688,9	

Please note!

In this edition, the plastic bodies vary largely from those of the other clamps. Thus, the clamps are now assigned to other tube diameters than in the standard series.

The clamp bodies must be notably larger, as they have to receive the Santoprene® rubber inserts.

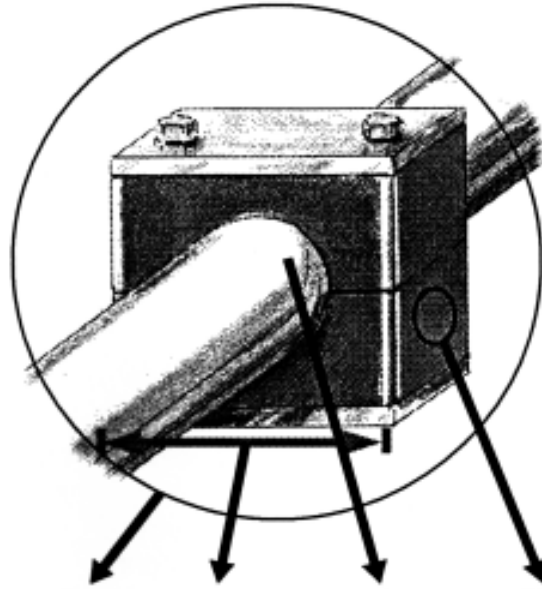
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-40 to + 120°C

Chemical Characteristics:

Santoprene® is resistant to light acids and partially resistant to petrol and mineral oil.

The standard Santoprene® - insert is black.



Example: K2- L1 06 PP

Clamp body – Light-Series, seize 1, tubeØ 6mm - with cover plate, weld plate and hexagon head bolt

The Combination	The Series The Clamp Size	Tube Diameters	The Material
<p>The figured clamp combination comprises the clamp body, 2 hexagon head bolts, one cover plate and a weld plate.</p> <p>We have chosen the code number K2- for this combination.</p> <p>Many other combinations are possible, e.g. without cover plate (K1-) or as rail-assembly (K3-) and many others. (see page 6)</p> <p>Please contact us for further combination groups, as well as the corresponding code numbers.</p> <p>You can find the article numbers of the single parts in this catalogue from page 7 onwards.</p>	<p>This second code group indicates the series and the clamp size of the plastic body.</p> <p>The measures of the accessory parts are also dependant on the clamp size.</p> <p>When enquiring / ordering, please choose your required series: Light (L), Twin (D) or Heavy (S) Series.</p> <p>The series depends on the mechanical conditions of the concerned tubes.</p> <p>The Light-Series comprises the clamp sizes L0 to L8. The Twin - Series includes the sizes D1 to D5, while the Heavy - Series is available from S1 to S10.</p> <p>With our system, you can fix tubes from 6 to 450 mm outer diameter.</p>	<p>This is one of the most important figures !</p> <p>In this norm, our delivery range contains tube outer diameters from 6 to 450 mm.</p> <p>To evade misunderstandings, please always indicate the metric (mm) diameter in your enquiries / order.</p> <div style="border: 1px solid gray; padding: 10px; text-align: center;"> <p>You prefer to order with your accustomed article number?</p> <p>No problem!</p> <p>We do the adaptation for you.</p> </div>	<p>The letter abbreviation at the end of the number stands for the material of the clamp body.</p> <p>Our delivery range features the following materials:</p> <p>PP (Polypropylen– green)*</p> <p>PA (Polyamid– black)*</p> <p>AL (Aluminium)*</p> <p>SA (Santoprene® – black) for the Elastomer-insert.</p> <p>*Other thermoplastic materials, colours, tube diameters or special coatings for the aluminium clamps are, of course, also available upon request.</p>

Ask us!

Since years, we are selling clamps in accordance to DIN 3015. We know most common techniques.

Contact us, should you need a special attachment. We are looking forward to assisting you.

Attention with experiments!

Not every clamp is suitable for every application. High temperatures, intense mechanical conditions or certain climatic regions may present problems for certain materials.

Call us – we are glad to recommend you.

Important!

Clamps in accordance to DIN 3015 and 3567 (see Page 3) always consist of 2 clamp halves.

1 piece = 2 halves

Tube diameter.

Please indicate dimensions always in millimetre. The inch measures may also often be used, however, they can easily be confused and lead to avoidable misunderstandings.

Service.

Upon request, you may also receive the clamps completely assembled, as assembly in one bag with your material number or ... as you prefer.

Herewith, we offer you a favourable option to receive any single parts in a clearly arranged set. Please enquire.

Delivery.

The standard assemblies are on stock. Thus, most orders can be forwarded on the same day if they reach us before 12 o'clock.

Do you have suggestions?

May we still improve something?

Do you have a concept, that will make the work easier for you?

Would you like further information?

Please do not hesitate to contact us. We want to improve for you!

Best regards

Your  **spradow Team**
german engineering at your service

Spradow GmbH & Co. KG

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www.spradow.de

Our additional products

Hydraulic test couplings



Spradow Test Box



High pressure hoses



Pressure gauges



Pressure test connections for compressed-air braking equipment in accordance to DIN / ISO 3583



These products are, of course, also available in further editions.

We are looking forward to provide you with the corresponding documents.

Your  **spradow Team**
german engineering at your service

phone no.: +49 (0)5207 9169-31 fax no.: +49 (0)5207 9169-23

Spradow GmbH & Co. KG
 sales department
 Görlitzer Straße 13

D-33758 Schloß Holte-Stukenbrock

date: _____

customer number: _____

order number: _____ delivery date: _____

Please don't confirm telephone or fax orders
 in writing - to avoid double deliveries!

part number	quantity	description	unit price	total price
total excluding VAT.				

Please take our minimum order value into account (please see price list).

invoice address	
company:	_____
line of business:	_____
street / PO box:	_____
zip code / city:	_____
tel. / fax no.:	_____

dispatch note (if different)	
company:	_____
street / no.:	_____
zip code / city:	_____
area:	_____
please fill out completely:	
responsible:	_____
tel.(for advice):	_____
fax no.:	_____

X

date legally binding signature