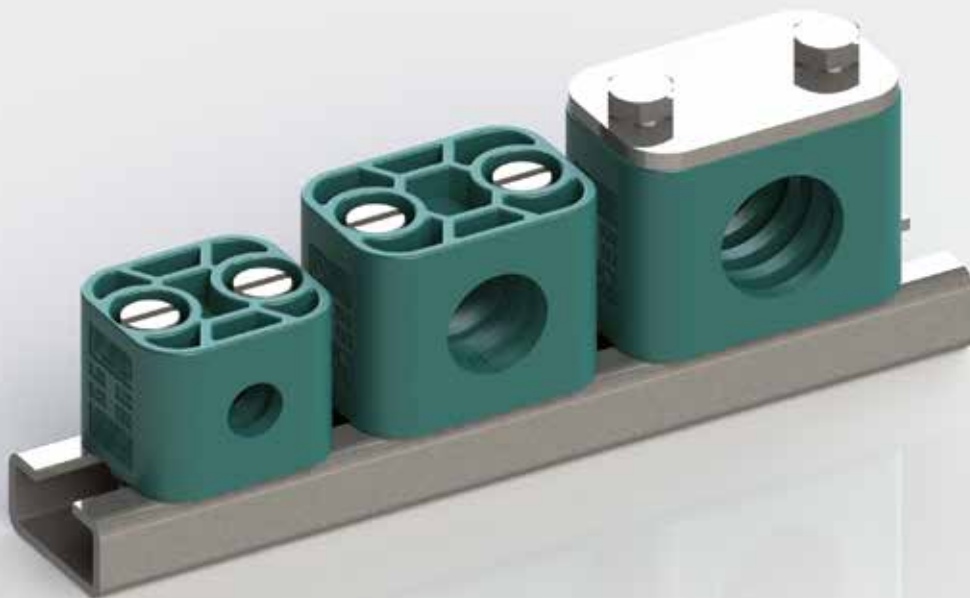




Securely Fastened – Function Guaranteed



Tube Clamps with a System

Tube Clamps pursuant to DIN 3015, Part 1

The lightweight construction clamps can be used in a very wide range of applications in fluid technology. They are used for simple and dependable tube mounting. The noise and vibration reducing features are an important contribution to occupational safety and environmental protection.

A comprehensive selection of accessories for dependable mounting is available to go with the large selection of tube clamps.

We offer tube clamps made of polypropylene PP and polyamide PA, as standard. Other materials, including flame-retardant materials, are available on request. The accessories, such as mounting rails, rail nuts, etc., are available in steel and stainless steel 1.4571.

Innovative design derived from nature – the honeycomb structure

The honeycomb structure provides excellent pressure distribution. This generates high tube holding power.

The two clamp halves are identical. The ribbed clamp interior reduces impacts and vibrations and absorbs forces in the direction of the tube axis. A gap between the halves is used to pretension the tube.

Advantages

- optimised product geometry
- best pressure distribution
- highest possible tube holding power



The rail nuts with loss prevention technology

The large flange of the rubber cap prevents the rail nut from falling into the rail during installation and acts also to absorb impacts and vibrations. This makes the system quick and easy to install and adjust, even in a vertical installation.

Advantages

- 40 % less time for installation
- quick and easy installation
- impact- and vibration-absorbing
- ideal for vertical installation



Application areas



Rail industry



Shipbuilding



Plant engineering

Technical Information

Function

- fixation and guidance of tubes
- absorption of axial and radial forces
- to absorb or prevent movement

Norm

light series A, according to DIN 3015-1

Werkstoff

- tube clamps: PP and PA6
- mounting rails, weld-on plates: bright steel or stainless steel 1.4571/1.4401
- rail nuts, screws, cover plates: zinc-plated steel or stainless steel 1.4571/1.4401

Characteristics

Tube clamps made of PP:

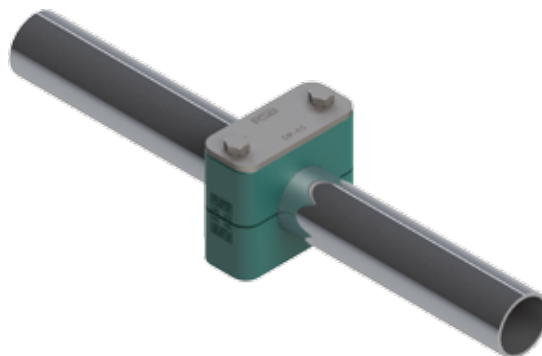
- -30°C to +90°C
- lighter than tube clamps made of PA
- tube holding power 0.6 kN to 2.3 kN
- color: dark green

Tube clamps made of PA:

- -40°C to +120°C
- heavier than tube clamps made of PP
- tube holding power 0.6 kN to 3.5 kN
- slightly flame retardant
- color: black

Chemical resistance

	Tube clamps made of PP	Tube clamps made of PA
acids	limited resistance	limited resistance
alkalis	limited resistant	limited resistance
alcohols	resistant	resistant
gasoline	limited resistance	resistant
mineral oil	limited resistant	resistant
other oils	resistant	resistant



Schellenkörper

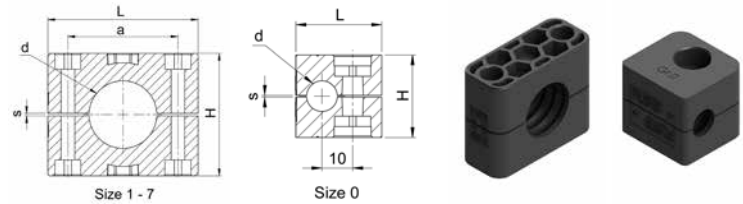
PP, Serie A

Corps de collier

PP, série A

Clamp body

PP, series A

RS RGA-PP

Type -S-d	Mat.-Nr.	L	H	a	s	kg/100
RS RGA-PP-0-4	906.1000.004	28.0	27.0		0.60	0.990
RS RGA-PP-0-6	906.1000.006	28.0	27.0		0.60	0.850
RS RGA-PP-0-6.4	906.1000.007	28.0	27.0		0.60	1.020
RS RGA-PP-0-8	906.1000.008	28.0	27.0		0.60	0.950
RS RGA-PP-0-9.5	906.1000.009	28.0	27.0		0.60	0.850
RS RGA-PP-0-10	906.1000.010	28.0	27.0		0.60	0.940
RS RGA-PP-0-12	906.1000.012	28.0	27.0		0.60	0.890
RS RGA-PP-1-6	906.1000.106	34.0	27.0	20.0	0.60	1.360
RS RGA-PP-1-6.4	906.1000.107	34.0	27.0	20.0	0.60	1.190
RS RGA-PP-1-8	906.1000.108	34.0	27.0	20.0	0.60	1.230
RS RGA-PP-1-9.5	906.1000.109	34.0	27.0	20.0	0.60	1.340
RS RGA-PP-1-10	906.1000.110	34.0	27.0	20.0	0.60	1.160
RS RGA-PP-1-12	906.1000.120	34.0	27.0	20.0	0.60	1.300
RS RGA-PP-2-12.7	906.1000.212	42.0	33.0	26.0	0.80	1.740
RS RGA-PP-2-13.5	906.1000.213	42.0	33.0	26.0	0.80	1.690
RS RGA-PP-2-14	906.1000.214	42.0	33.0	26.0	0.80	1.650
RS RGA-PP-2-15	906.1000.215	42.0	33.0	26.0	0.80	1.610
RS RGA-PP-2-16	906.1000.216	42.0	33.0	26.0	0.80	1.640
RS RGA-PP-2-17.2	906.1000.217	42.0	33.0	26.0	0.80	1.540
RS RGA-PP-2-18	906.1000.218	42.0	33.0	26.0	0.80	1.500
RS RGA-PP-3-19	906.1000.319	49.0	35.0	33.0	1.00	1.770
RS RGA-PP-3-20	906.1000.320	49.0	35.0	33.0	1.00	1.830
RS RGA-PP-3-21.3	906.1000.321	49.0	35.0	33.0	1.00	1.870
RS RGA-PP-3-22	906.1000.322	49.0	35.0	33.0	1.00	1.840
RS RGA-PP-3-23	906.1000.323	49.0	35.0	33.0	1.00	1.810
RS RGA-PP-3-25	906.1000.325	49.0	35.0	33.0	1.00	1.940
RS RGA-PP-3-25.4	906.1000.326	49.0	35.0	33.0	1.00	1.700
RS RGA-PP-4-26.9	906.1000.426	59.0	42.0	40.0	1.20	2.700
RS RGA-PP-4-28	906.1000.428	59.0	42.0	40.0	1.20	2.590
RS RGA-PP-4-30	906.1000.430	59.0	42.0	40.0	1.20	2.530
RS RGA-PP-5-32	906.1000.532	86.0	58.0	52.0	1.20	4.780
RS RGA-PP-5-33.7	906.1000.533	71.0	58.0	52.0	1.20	4.760
RS RGA-PP-5-35	906.1000.535	71.0	58.0	52.0	1.20	4.780
RS RGA-PP-5-38	906.1000.538	71.0	58.0	52.0	1.20	4.320
RS RGA-PP-5-40	906.1000.540	86.0	58.0	52.0	1.20	4.250
RS RGA-PP-5-42	906.1000.542	71.0	58.0	52.0	1.20	4.030

Fortsetzung nächste Seite

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Schellenkörper

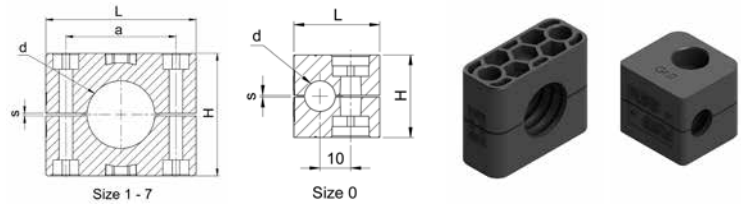
PP, Serie A

Corps de collier

PP, série A

Clamp body

PP, series A

RS RGA-PP

Type -S-d	Mat.-Nr.	L	H	a	s	kg/100
RS RGA-PP-6-44.5	906.1000.644	86.0	66.0	66.0	1.20	5.970
RS RGA-PP-6-45	906.1000.645	86.0	66.0	66.0	1.20	5.940
RS RGA-PP-6-48	906.1000.648	86.0	66.0	66.0	1.20	5.600
RS RGA-PP-6-50	906.1000.650	86.0	66.0	66.0	1.20	5.510
RS RGA-PP-6-50.8	906.1000.651	86.0	66.0	66.0	1.20	5.330
RS RGA-PP-6-52	906.1000.652	86.0	66.0	66.0	1.20	5.180
RS RGA-PP-6-54	906.1000.654	86.0	66.0	66.0	1.20	5.840
RS RGA-PP-6-55	906.1000.655	86.0	66.0	66.0	1.20	4.750
RS RGA-PP-6-57	906.1000.657	86.0	66.0	66.0	1.20	4.520
RS RGA-PP-7-57.2	906.1000.757	121.0	93.6	94.0	1.60	13.600
RS RGA-PP-7-60.3	906.1000.760	121.0	93.6	94.0	1.60	13.650
RS RGA-PP-7-63.5	906.1000.763	121.0	93.6	94.0	1.60	12.550
RS RGA-PP-7-70	906.1000.770	121.0	93.6	94.0	1.60	12.100
RS RGA-PP-7-73	906.1000.773	121.0	93.6	94.0	1.60	14.000
RS RGA-PP-7-76.1	906.1000.776	121.0	93.6	94.0	1.60	10.950

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Livable seulement dans des unités d'emballage; détails voir liste de prix ou Online Shop.

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Schellenkörper

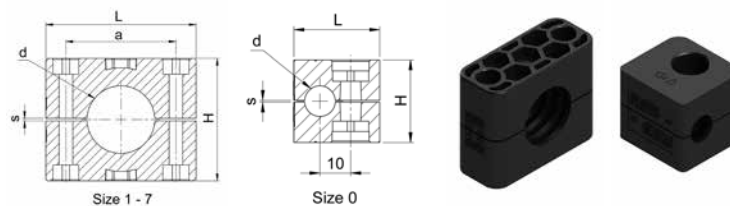
PA, Serie A

Corps de collier

PA, série A

Clamp body

PA, series A

RS RGA-PA

Type -S-d	Mat.-Nr.	L	H	a	s	kg/100
RS RGA-PA-0-4	906.2000.004	28.0	27.0		0.60	1.300
RS RGA-PA-0-6	906.2000.006	28.0	27.0		0.60	1.200
RS RGA-PA-0-6.4	906.2000.007	28.0	27.0		0.60	0.900
RS RGA-PA-0-8	906.2000.008	28.0	27.0		0.60	1.200
RS RGA-PA-0-9.5	906.2000.009	28.0	27.0		0.60	0.900
RS RGA-PA-0-10	906.2000.010	28.0	27.0		0.60	1.150
RS RGA-PA-0-12	906.2000.012	28.0	27.0		0.60	1.110
RS RGA-PA-1-6	906.2000.106	34.0	27.0	20.0	0.60	1.660
RS RGA-PA-1-6.4	906.2000.107	34.0	27.0	20.0	0.60	1.600
RS RGA-PA-1-8	906.2000.108	34.0	27.0	20.0	0.60	1.520
RS RGA-PA-1-9.5	906.2000.109	34.0	27.0	20.0	0.60	1.670
RS RGA-PA-1-10	906.2000.110	34.0	27.0	20.0	0.60	1.620
RS RGA-PA-1-12	906.2000.112	34.0	27.0	20.0	0.60	1.360
RS RGA-PA-2-12.7	906.2000.212	42.0	33.0	26.0	0.80	2.200
RS RGA-PA-2-13.5	906.2000.213	42.0	33.0	26.0	0.80	2.150
RS RGA-PA-2-14	906.2000.214	42.0	33.0	26.0	0.80	1.960
RS RGA-PA-2-15	906.2000.215	42.0	33.0	26.0	0.80	2.010
RS RGA-PA-2-16	906.2000.216	42.0	33.0	26.0	0.80	1.890
RS RGA-PA-2-17.2	906.2000.217	42.0	33.0	26.0	0.80	2.100
RS RGA-PA-2-18	906.2000.218	42.0	33.0	26.0	0.80	1.820
RS RGA-PA-3-19	906.2000.319	49.0	35.0	33.0	1.00	2.430
RS RGA-PA-3-20	906.2000.320	49.0	35.0	33.0	1.00	2.630
RS RGA-PA-3-21.3	906.2000.321	49.0	35.0	33.0	1.00	2.390
RS RGA-PA-3-22	906.2000.322	49.0	35.0	33.0	1.00	2.310
RS RGA-PA-3-23	906.2000.323	49.0	35.0	33.0	1.00	2.160
RS RGA-PA-3-25	906.2000.325	49.0	35.0	33.0	1.00	2.090
RS RGA-PA-3-25.4	906.2000.326	49.0	35.0	33.0	1.00	2.080
RS RGA-PA-4-26.9	906.2000.426	59.0	42.0	40.0	1.20	3.400
RS RGA-PA-4-28	906.2000.428	59.0	42.0	40.0	1.20	3.210
RS RGA-PA-4-30	906.2000.430	59.0	42.0	40.0	1.20	3.140
RS RGA-PA-5-32	906.2000.532	71.0	58.0	52.0	1.20	5.900
RS RGA-PA-5-33.7	906.2000.533	71.0	58.0	52.0	1.20	5.570
RS RGA-PA-5-35	906.2000.535	71.0	58.0	52.0	1.20	5.640
RS RGA-PA-5-38	906.2000.538	71.0	58.0	52.0	1.20	5.390
RS RGA-PA-5-40	906.2000.540	71.0	58.0	52.0	1.20	5.030
RS RGA-PA-5-42	906.2000.542	71.0	58.0	52.0	1.20	4.750

Fortsetzung nächste Seite

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Schellenkörper

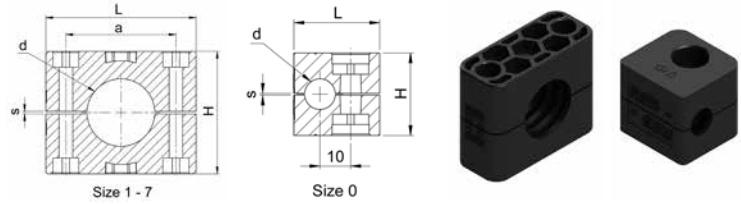
PA, Serie A

Corps de collier

PA, série A

Clamp body

PA, series A

RS RGA-PA

Type -S-d	Mat.-Nr.	L	H	a	s	kg/100
RS RGA-PA-6-44.5	906.2000.644	86.0	66.0	66.0	1.20	7.500
RS RGA-PA-6-45	906.2000.645	86.0	66.0	66.0	1.20	7.500
RS RGA-PA-6-48	906.2000.648	86.0	66.0	66.0	1.20	7.950
RS RGA-PA-6-50	906.2000.650	86.0	66.0	66.0	1.20	6.450
RS RGA-PA-6-50.8	906.2000.651	86.0	66.0	66.0	1.20	6.430
RS RGA-PA-6-52	906.2000.652	86.0	66.0	66.0	1.20	7.440
RS RGA-PA-6-54	906.2000.654	86.0	66.0	66.0	1.20	6.150
RS RGA-PA-6-55	906.2000.655	86.0	66.0	66.0	1.20	7.500
RS RGA-PA-6-57	906.2000.657	86.0	66.0	66.0	1.20	7.500
RS RGA-PA-7-57.2	906.2000.757	121.0	93.6	94.0	1.60	17.200
RS RGA-PA-7-60.3	906.2000.760	121.0	93.6	94.0	1.60	16.100
RS RGA-PA-7-63.5	906.2000.763	121.0	93.6	94.0	1.60	16.300
RS RGA-PA-7-70	906.2000.770	121.0	93.6	94.0	1.60	14.000
RS RGA-PA-7-73	906.2000.773	121.0	93.6	94.0	1.60	14.000
RS RGA-PA-7-76.1	906.2000.776	121.0	93.6	94.0	1.60	14.000

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Anschweisplatte kurz

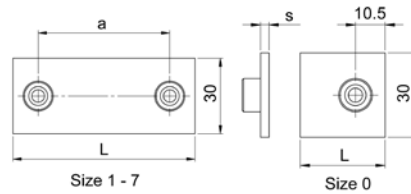
Stahl blank, Serie A

Plaque à souder courte

acier, série A

Weld-on plate short

steel, series A

**RS AKZ1A-SB**

Type-S	Mat.-Nr.	L	a	s	kg/100
RS AKZ1A-SB-0	946.3108.000	30.0		3.00	2.400
RS AKZ1A-SB-1	946.3108.100	36.0	20.0	3.00	3.200
RS AKZ1A-SB-2	946.3108.200	42.0	26.0	3.00	3.600
RS AKZ1A-SB-3	946.3108.300	50.0	33.0	3.00	4.100
RS AKZ1A-SB-4	946.3108.400	59.0	40.0	3.00	4.800
RS AKZ1A-SB-5	946.3108.500	72.0	52.0	3.00	5.400
RS AKZ1A-SB-6	946.3108.600	88.0	66.0	3.00	6.000
RS AKZ1A-SB-7	946.3108.700	122.0	94.0	5.00	14.000

Anschweisplatte kurz

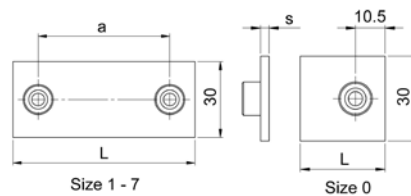
Edelstahl 1.4571/1.4401, Serie A

Plaque à souder courte

acier inoxydable 1.4571/1.4401, série A

Weld-on plate short

stainless steel 1.4571/1.4401, series A

**RS AKZ2A-E1**

Type-S	Mat.-Nr.	L	a	s	kg/100
RS AKZ2A-E1-0	946.5118.000	30.0		3.00	2.200
RS AKZ2A-E1-1	946.5118.100	36.0	20.0	3.00	2.500
RS AKZ2A-E1-2	946.5118.200	42.0	26.0	3.00	2.900
RS AKZ2A-E1-3	946.5118.300	50.0	33.0	3.00	3.500
RS AKZ2A-E1-4	946.5118.400	59.0	40.0	3.00	4.000
RS AKZ2A-E1-5	946.5118.500	72.0	52.0	3.00	4.900
RS AKZ2A-E1-6	946.5118.600	88.0	66.0	3.00	6.300
RS AKZ2A-E1-7	946.5118.700	122.0	94.0	5.00	14.600

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Deckplatte

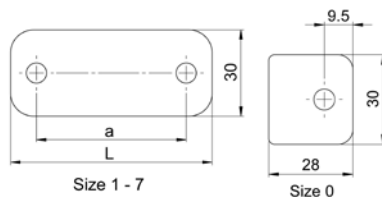
Stahl verzinkt, Serie A

Plaque de couverture

acier zingué, série A

Cover plate

zinc-plated steel, series A

RS DPA-VZ

Type-S	Mat.-Nr.	L	a	kg/100
RS DPA-VZ-0	946.4130.000	28.0		1.700
RS DPA-VZ-1	946.4130.100	34.0	20.0	2.100
RS DPA-VZ-2	946.4130.200	40.0	26.0	2.500
RS DPA-VZ-3	946.4130.300	48.0	33.0	3.100
RS DPA-VZ-4	946.4130.400	57.0	40.0	3.700
RS DPA-VZ-5	946.4130.500	70.0	52.0	4.600
RS DPA-VZ-6	946.4130.600	86.0	66.0	5.700
RS DPA-VZ-7	946.4130.700	120.0	94.0	14.000

Deckplatte

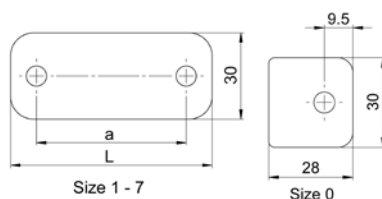
Edelstahl 1.4571/1.4401, Serie A

Plaque de couverture

acier inoxydable 1.4571/1.4401, série A

Cover plate

stainless steel 1.4571/1.4401, series A

RS DPA-E1

Type-S	Mat.-Nr.	L	a	kg/100
RS DPA-E1-0	946.5130.000	28.0		1.900
RS DPA-E1-1	946.5130.100	34.0	20.0	2.000
RS DPA-E1-2	946.5130.200	40.0	26.0	2.400
RS DPA-E1-3	946.5130.300	48.0	33.0	3.100
RS DPA-E1-4	946.5130.400	57.0	40.0	3.600
RS DPA-E1-5	946.5130.500	70.0	52.0	4.000
RS DPA-E1-6	946.5130.600	86.0	66.0	5.800
RS DPA-E1-7	946.5130.700	120.0	94.0	13.400

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Sechskantschraube

Stahl verzinkt, Serie A

Vis à tête hexagonale

acier zingué, série A

Hexagon screw

zinc-plated steel, series A

RS SSA-VZ

Type-S	Mat.-Nr.	Mz	L	kg/100
RS SSA-VZ-0/1	946.4210.000	M6	30.0	0.800
RS SSA-VZ-2	946.4210.200	M6	35.0	0.900
RS SSA-VZ-3	946.4210.300	M6	40.0	1.000
RS SSA-VZ-4	946.4210.400	M6	45.0	1.200
RS SSA-VZ-5	946.4210.500	M6	60.0	1.400
RS SSA-VZ-6	946.4210.600	M6	70.0	1.800
RS SSA-VZ-7	946.4210.700	M6	100.0	1.900

Sechskantschraube

Edelstahl 1.4571/1.4401, Serie A

Vis à tête hexagonale

acier inoxydable 1.4571/1.4401, série A

Hexagon screw

stainless steel 1.4571/1.4401, series A

RS SSA-E1

Type-S	Mat.-Nr.	Mz	L	kg/100
RS SSA-E1-0/1	946.5210.000	M6	30.0	0.800
RS SSA-E1-2	946.5210.200	M6	35.0	0.900
RS SSA-E1-3	946.5210.300	M6	40.0	1.000
RS SSA-E1-4	946.5210.400	M6	45.0	1.200
RS SSA-E1-5	946.5210.500	M6	60.0	1.500
RS SSA-E1-6	946.5210.600	M6	70.0	1.800
RS SSA-E1-7	946.5210.700	M6	100.0	2.000

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Innensechskantschraube

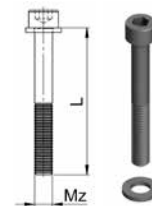
Stahl verzinkt, Serie A

Vis à six pans creux

acier zingué, série A

Hexagon socket screw

zinc-plated steel, series A

**RS ISA-VZ**

Type-S	Mat.-Nr.	Mz	L	kg/100
RS ISA-VZ-01	946.4220.000	M6	20.0	0.600
RS ISA-VZ-2	946.4220.200	M6	25.0	0.700
RS ISA-VZ-3	946.4220.300	M6	30.0	0.800
RS ISA-VZ-4	946.4220.400	M6	35.0	1.000
RS ISA-VZ-5	946.4220.500	M6	50.0	1.200
RS ISA-VZ-6	946.4220.600	M6	60.0	1.400
RS ISA-VZ-7	946.4220.700	M6	90.0	1.800

Innensechskantschraube

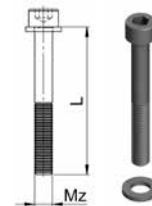
Edelstahl 1.4571/1.4401, Serie A

Vis à six pans creux

acier inoxydable 1.4571/1.4401, série A

Hexagon socket screw

stainless steel 1.4571/1.4401, series A

**RS ISA-E1**

Type-S	Mat.-Nr.	Mz	L	kg/100
RS ISA-E1-01	946.5220.000	M6	20.0	0.600
RS ISA-E1-2	946.5220.200	M6	25.0	0.700
RS ISA-E1-3	946.5220.300	M6	30.0	0.800
RS ISA-E1-4	946.5220.400	M6	35.0	1.000
RS ISA-E1-5	946.5220.500	M6	50.0	1.200
RS ISA-E1-6	946.5220.600	M6	60.0	1.400
RS ISA-E1-7	946.5220.700	M6	90.0	1.800

Lieferung nur in Einheitspackungen; Details siehe Preisliste oder Online Shop.

Livable seulement dans des unités d'emballage; détails voir liste de prix ou Online Shop.

Delivery in packing units only; details see price list or Online Shop.

Tragschiene

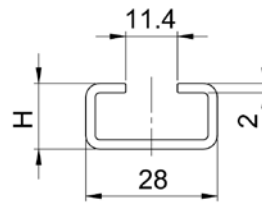
Stahl blank, Serie A

Rail de support

acier, série A

Mounting rail

steel, series A

RSTS-SB

Type	Mat.-Nr.	Länge/Length	H	kg/m
RS TS11A-SB-1m	946.4140.111	1 m	11.0	0.866

Tragschiene

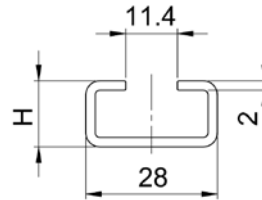
Edelstah 1.4571/1.4401, Serie A

Rail de support

acier inoxydable 1.4571/1.4401, série A

Mounting rail

stainless steel 1.4571/1.4401, series A

RSTS-E1

Type	Mat.-Nr.	Länge/Length	H	kg/m
RS TS11A-E1-1m	946.5140.111	1 m	11.0	0.862

Tragschienenmutter

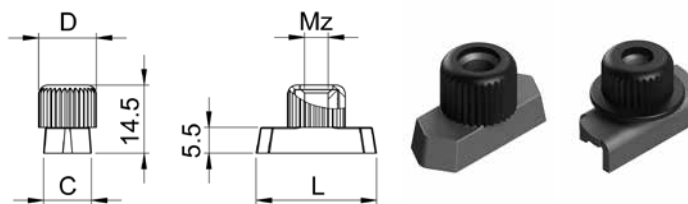
Stahl verzinkt, Serie A

Écrou pour rail de support

acier zingué, série A

Rail nut

zinc-plated steel, series A

RS TMA-VZ/TMVA-VZ

Type	Mat.-Nr.	L	C	D	Mz	kg/100
RS TMA-VZ	946.4160.000	25.4	10.4	12.0	M6	1.200
RS TMVA-VZ	946.4170.000	24.9	10.5	12.0	M6	0.700

Tragschienenmutter

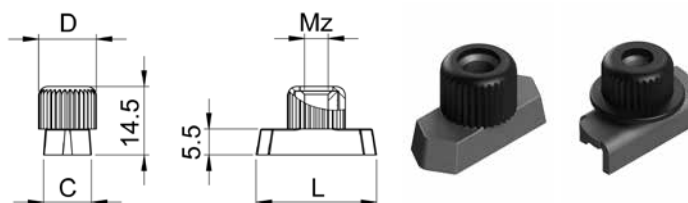
Edelstahl 1.4571/1.4401, Serie A

Écrou pour rail de support

acier inoxydable 1.4571/1.4401, série A

Rail nut

stainless steel 1.4571/1.4401, series A

RS TMA-E1/TMVA-E1

Type	Mat.-Nr.	L	C	D	Mz	kg/100
RS TMA-E1	946.5160.000	25.4	10.4	12.0	M6	1.508
RS TMVA-E1	946.5170.000	24.9	10.5	12.0	M6	0.940

Typ TMVA mit Verlusicherung.

Der grosse Flansch der Gummikappe verhindert, dass die Tragschienenmutter während der Montage in die Schiene fällt und hat zusätzlich eine schall- und vibrationsdämmende Funktion. Dadurch ist das System schnell und einfach zu montieren und zu justieren, auch bei vertikaler Installation.

Lieferung nur in Einheitspackungen; Details siehe Preisliste oder Online Shop.

Type TMVA avec sécurité anti-perte.

La grande bride du capuchon en caoutchouc empêche l'écrou de rail de tomber pendant le montage dans le rail et a également une fonction insonorisante et anti-vibratoire. Il est ainsi facile de monter et d'ajuster rapidement et simplement le système, même en cas d'installation verticale.

Livable seulement dans des unités d'emballage; détails voir liste de prix ou Online Shop.

Type TMVA with loss protection.

The large flange of the rubber cap prevents the rail nut from falling into the rail during installation and acts also to absorb impacts and vibrations. This makes the system quick and easy to install and adjust, even in a vertical installation.

Delivery in packing units only; details see price list or Online Shop.

Installation Options

Installation on weld-on plates

Weld the weld-on plates to a base suitable for the load. Here it is important to make sure the clamp is properly aligned.

Fasten the lower half of the clamp to the weld-on plate, insert the tube, set the second half of the clamp in place, and use screws to tighten the clamp. Pay attention to the pretension; clamp halves should not be touching after installation.

Do not weld with plastic clamps in place!



Installation on mounting rails

The mounting rails are delivered in pieces of 1 m in length, other lengths available on request.

Weld the mounting rail, place the rail nuts in the rail and turn until they stop.

Fasten the lower half of the clamp to the rail nuts, insert the tube, set the second half of the clamp in place, and use screws to tighten the clamp. The clamp can be positioned before the screws are tightened. Pay attention to the pretension; clamp halves should not be touching after installation.



Technical Information

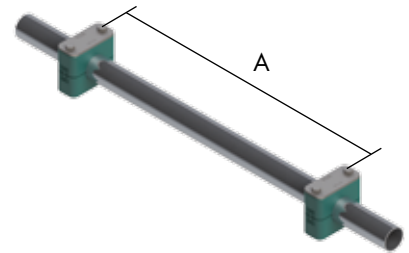
Screw tightening torques and axial tube holding power

The specified screw tightening torques and axial tube holding power are based on installation with cover plates and external hexagon screws according to ISO 4014/4017 (DIN 931/933). The axial tube holding power (pursuant to DIN 3015, Part 10) is a mean value, determined from three tests at +23 °C with a steel tube according to DIN 2448 made of St 37, where static friction is provided. The tube will not slide in the clamp when force is applied to the clamp in the axial tube direction at the specified test load (F).

Size	Retaining screw	PP		PA	
		Tightening torque (Nm)	Tube holding power F (kN)	Tightening torque (Nm)	Tube holding power F (kN)
0	M 6	8	0.6	10	0.6
1	M 6	8	1.1	10	0.7
2	M 6	8	1.2	10	0.8
3	M 6	8	1.4	10	1.6
4	M 6	8	1.5	10	1.7
5	M 6	8	1.9	10	2.0
6	M 6	8	2.0	10	2.5
7	M 6	8	2.3	10	3.2

Recommended clamp spacing

Tube outer diameter (mm)	Clamping space A (m)
6.0 - 12.7	1.0
12.7 - 22.0	1.2
22.0 - 32.0	1.5
32.0 - 38.0	2.0
38.0 - 57.0	2.7
57.0 - 75.0	3.0
75.0 - 76.1	3.5



Tube elbow installation

Tube elbows should be fastened with tube clamps directly before and after the bend.





Plastics



Stainless steel



Brass



Ready-to-fit tubes



Aluminium



Pre-assembled kits



Steel



Consulting



Cleaning options



Valves, shut-off valves