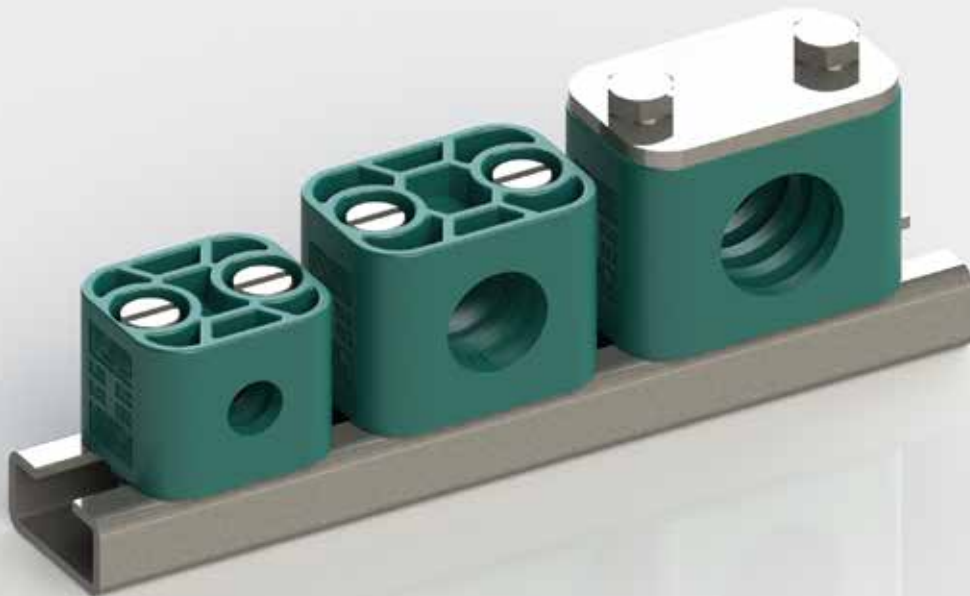




Securely Fastened – Function Guaranteed



Tube Clamps with a System

Tube Clamps pursuant to DIN 3015, Part 1 and 3

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, polyamide PA and PA F as well as aluminium as standard. Other 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 and B, according to DIN 3015

Materials

- tube clamps: PP, PA6, PA66 F, aluminium
- weld-on plates: steel phosphatized or stainless steel 1.4571/1.4401
- mounting rails: 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 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 PA66 F:

- -40°C to +120°C
- heavier than tube clamps made of PP
- tube holding power 0.6 kN to 3.5 kN
- fulfilment of the requirement sets R22 / R23 / R24 / R26 for the hazard levels HL1-HL2-HL3 according to EN 45545-2
- color: white-grey

Tube clamps PA6:

- -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

Tube clamps aluminium:

- -40°C to +300°C
- tube holding power 3.5 kN to 8.9 kN
- color: grey

Chemical resistance

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



Schellenkörper

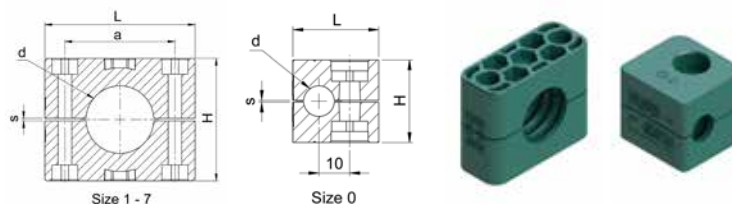
PP, Serie A

Corps de collier

PP, série A

Clamp body

PP, series A

RS RGA-PP

Type -S-d	Mat.-Nr.	d (")	G	L	H	a	s	kg/100
RS RGA-PP-0-4	906.1000.004	-	-	28.0	27.0	0.0	0.60	0.990
RS RGA-PP-0-6	906.1000.006	-	-	28.0	27.0	0.0	0.60	0.850
RS RGA-PP-0-6.4	906.1000.007	1/4	-	28.0	27.0	0.0	0.60	1.020
RS RGA-PP-0-8	906.1000.008	5/16	-	28.0	27.0	0.0	0.60	0.950
RS RGA-PP-0-9.5	906.1000.009	3/8	-	28.0	27.0	0.0	0.60	0.850
RS RGA-PP-0-10	906.1000.010	-	G 1/8	28.0	27.0	0.0	0.60	0.940
RS RGA-PP-0-12	906.1000.012	-	-	28.0	27.0	0.0	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	1/4	-	34.0	27.0	20.0	0.60	1.190
RS RGA-PP-1-8	906.1000.108	5/16	-	34.0	27.0	20.0	0.60	1.230
RS RGA-PP-1-9.5	906.1000.109	3/8	-	34.0	27.0	20.0	0.60	1.340
RS RGA-PP-1-10	906.1000.110	-	G 1/8	34.0	27.0	20.0	0.60	1.160
RS RGA-PP-1-12	906.1000.112	-	-	34.0	27.0	20.0	0.60	1.300
RS RGA-PP-2-12.7	906.1000.212	1/2	-	42.0	33.0	26.0	0.80	1.740
RS RGA-PP-2-13.5	906.1000.213	-	G 1/4	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	5/8	-	42.0	33.0	26.0	0.80	1.640
RS RGA-PP-2-17.2	906.1000.217	-	G 3/8	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	3/4	-	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	-	G 1/2	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	1	-	49.0	35.0	33.0	1.00	1.700
RS RGA-PP-4-26.9	906.1000.426	-	G 3/4	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	1 1/4	-	71.0	58.0	52.0	1.20	4.780
RS RGA-PP-5-33.7	906.1000.533	-	G 1	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	1 1/2	-	71.0	58.0	52.0	1.20	4.320
RS RGA-PP-5-40	906.1000.540	-	-	71.0	58.0	52.0	1.20	4.250
RS RGA-PP-5-42	906.1000.542	-	G 1 1/4	71.0	58.0	52.0	1.20	4.030

Fortsetzung nächste Seite

Suite à la prochaine page

Continued on next page

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Schellenkörper

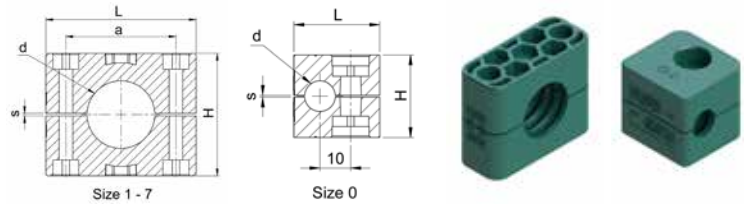
PP, Serie A

Corps de collier

PP, série A

Clamp body

PP, series A

RS RGA-PP

Type -S-d	Mat.-Nr.	d (")	G	L	H	a	s	kg/100
RS RGA-PP-6-44.5	906.1000.644	1 3/4	-	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	-	G 1 1/2	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	2	-	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	2 1/4	-	121.0	93.6	94.0	1.60	13.600
RS RGA-PP-7-60.3	906.1000.760	-	G 2	121.0	93.6	94.0	1.60	13.650
RS RGA-PP-7-63.5	906.1000.763	2 1/2	-	121.0	93.6	94.0	1.60	12.550
RS RGA-PP-7-70	906.1000.770	2 3/4	-	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	3	G 2 1/2	121.0	93.6	94.0	1.60	10.950

Lieferung nur in Einheitspackungen:
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G=Rohr-Nennweite
S=Schellengröße

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d (")=ø extérieur du tube pouce
G=largeur nominale du tube
S=dimension du collier

d=tube outside diameter
d (")=tube outside diameter inch
G=tube nominal width
S=size of clamp

Schellenkörper

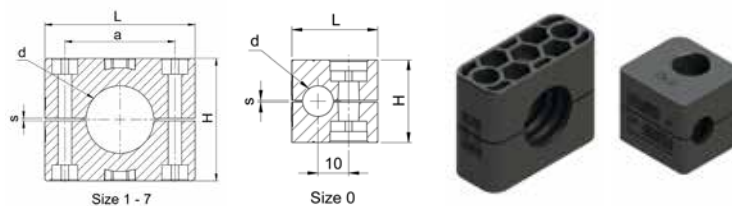
PA, Serie A

Corps de collier

PA, série A

Clamp body

PA, series A

RS RGA-PA

Type -S-d	Mat.-Nr.	d (")	G	L	H	a	s	kg/100
RS RGA-PA-0-4	906.2000.004	-	-	28.0	27.0	0.0	0.60	1.300
RS RGA-PA-0-6	906.2000.006	-	-	28.0	27.0	0.0	0.60	1.200
RS RGA-PA-0-6.4	906.2000.007	1/4	-	28.0	27.0	0.0	0.60	0.900
RS RGA-PA-0-8	906.2000.008	5/16	-	28.0	27.0	0.0	0.60	1.200
RS RGA-PA-0-9.5	906.2000.009	3/8	-	28.0	27.0	0.0	0.60	0.900
RS RGA-PA-0-10	906.2000.010	-	G 1/8	28.0	27.0	0.0	0.60	1.150
RS RGA-PA-0-12	906.2000.012	-	-	28.0	27.0	0.0	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	1/4	-	34.0	27.0	20.0	0.60	1.600
RS RGA-PA-1-8	906.2000.108	5/16	-	34.0	27.0	20.0	0.60	1.520
RS RGA-PA-1-9.5	906.2000.109	3/8	-	34.0	27.0	20.0	0.60	1.670
RS RGA-PA-1-10	906.2000.110	-	G 1/8	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	1/2	-	42.0	33.0	26.0	0.80	2.200
RS RGA-PA-2-13.5	906.2000.213	-	G 1/4	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	5/8	-	42.0	33.0	26.0	0.80	1.890
RS RGA-PA-2-17.2	906.2000.217	-	G 3/8	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	3/4	-	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	-	G 1/2	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	1	-	49.0	35.0	33.0	1.00	2.080
RS RGA-PA-4-26.9	906.2000.426	-	G 3/4	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	1 1/4	-	71.0	58.0	52.0	1.20	5.900
RS RGA-PA-5-33.7	906.2000.533	-	G 1	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	1 1/2	-	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	-	G 1 1/4	71.0	58.0	52.0	1.20	4.750

Fortsetzung nächste Seite

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Schellenkörper

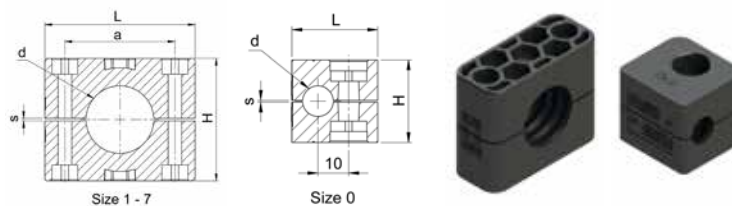
PA, Serie A

Corps de collier

PA, série A

Clamp body

PA, series A

RS RGA-PA

Type -S-d	Mat.-Nr.	d (")	G	L	H	a	s	kg/100
RS RGA-PA-6-44.5	906.2000.644	1 3/4	-	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	-	G 1 1/2	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	2	-	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	2 1/4	-	121.0	93.6	94.0	1.60	17.200
RS RGA-PA-7-60.3	906.2000.760	-	G 2	121.0	93.6	94.0	1.60	16.100
RS RGA-PA-7-63.5	906.2000.763	2 1/2	-	121.0	93.6	94.0	1.60	16.300
RS RGA-PA-7-70	906.2000.770	2 3/4	-	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	3	G 2 1/2	121.0	93.6	94.0	1.60	14.000

Lieferung nur in Einheitspackungen:
Größen 0 bis 6 = Beutel à 25 Stk.
Größe 7 = Beutel à 10 Stk.

Livable seulement dans des unités
d'emballage:
Dimensions 0 à 6 = Sachets de 25 pcs.
Dimension 7 = Sachets de 10 pcs.

Delivery in packing units only:
Sizes 0 to 6 = Bags with 25 pcs.
Size 7 = Bags with 10 pcs.

d=Rohrassen-ø
d (")=d=Rohrassen-ø zoll
G=Rohr-Nennweite
S=Schellengröße

d=ø extérieur du tube
d (")=ø extérieur du tube pouce
G=largeur nominale du tube
S=dimension du collier

d=tube outside diameter
d (")=tube outside diameter inch
G=tube nominal width
S=size of clamp

Schellenkörper

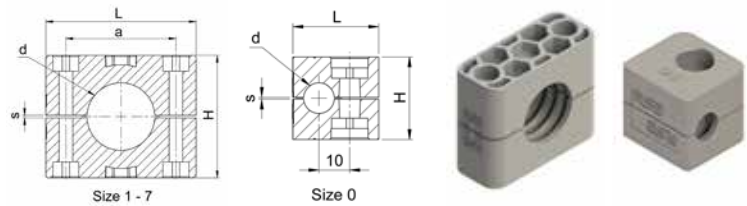
PA flammhemmend, Serie A

Corps de collier

PA ignifugé, série A

Clamp body

PA flame retardant, series A

RS RGA PA F

Type -S-d	Mat.-Nr.	d (")	G	L	H	a	s	kg/100
RS RGA-PA-0-10 F	906.2000.010.F	-	G 1/8	28.0	27.0	0.0	0.60	1.150
RS RGA-PA-1-8 F	906.2000.108.F	5/16	-	34.0	27.0	20.0	0.60	1.520
RS RGA-PA-1-10 F	906.2000.110.F	-	G 1/8	34.0	27.0	20.0	0.60	1.620
RS RGA-PA-2-18 F	906.2000.218.F	-	-	42.0	33.0	26.0	0.80	1.820
RS RGA-PA-3-19 F	906.2000.319.F	3/4	-	49.0	35.0	33.0	1.00	2.430
RS RGA-PA-3-22 F	906.2000.322.F	-	-	49.0	35.0	33.0	1.00	2.310

Lieferung nur in Einheitspackungen = Beutel à 25 Stk.

Livable seulement dans des unités d'emballage = sachets de 25 pcs.

Delivery in packing units only = bags with 25 pcs.

d=Rohrussen-ø
d (")=d=Rohrussen-ø zoll
G=Rohr-Nennweite
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d (")=ø extérieur du tube pouce
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S=dimension du collier

d=tube outside diameter
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G=tube nominal width
S=size of clamp

Schellenkörper

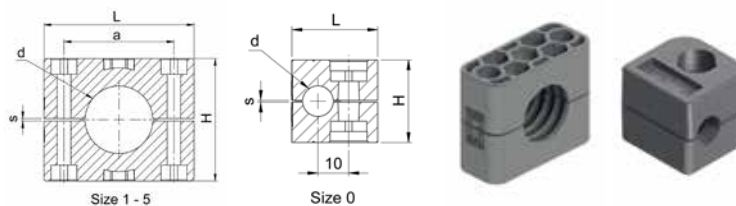
Aluminium, Serie A

Corps de collier

aluminium, série A

Clamp body

aluminium, series A

RS RGA-AL

Type -S-d	Mat.-Nr.	d (")	G	L	H	a	s	kg/100
RS RGA-AL-0-10	906.7000.010	-	G 1/8	28.0	27.0	0.0	0.60	4.020
RS RGA-AL-0-12	906.7000.012	-	-	28.0	27.0	0.0	0.60	3.800
RS RGA-AL-1-6	906.7000.106	-	-	34.0	27.0	20.0	0.60	3.750
RS RGA-AL-1-8	906.7000.108	5/16	-	34.0	27.0	20.0	0.60	3.420
RS RGA-AL-1-10	906.7000.110	-	G 1/8	34.0	27.0	20.0	0.60	3.310
RS RGA-AL-1-12	906.7000.112	-	-	34.0	27.0	20.0	0.60	3.160
RS RGA-AL-2-15	906.7000.215	-	-	42.0	33.0	26.0	0.80	5.550
RS RGA-AL-2-18	906.7000.218	-	-	42.0	33.0	26.0	0.80	5.300
RS RGA-AL-3-22	906.7000.322	-	-	49.0	35.0	33.0	1.00	5.820
RS RGA-AL-3-25	906.7000.325	-	-	49.0	35.0	33.0	1.00	5.380
RS RGA-AL-4-28	906.7000.428	-	-	59.0	42.0	40.0	1.20	7.510
RS RGA-AL-5-35	906.7000.535	-	-	71.0	58.0	52.0	1.20	14.130
RS RGA-AL-5-42	906.7000.542	-	G 1 1/4	71.0	58.0	52.0	1.20	12.150

Lieferung nur in Einheitspackungen = Beutel à 25 Stk.

Livable seulement dans des unités d'emballage = sachets de 25 pcs.

Delivery in packing units only = bags with 25 pcs.

d=Rohrussen-ø
d (")=d=Rohrussen-ø zoll
G=Rohr-Nennweite
S=Schellengröße

d=ø extérieur du tube
d (")=ø extérieur du tube pouce
G=largeur nominale du tube
S=dimension du collier

d=tube outside diameter
d (")=tube outside diameter inch
G=tube nominal width
S=size of clamp

Schellenkörper

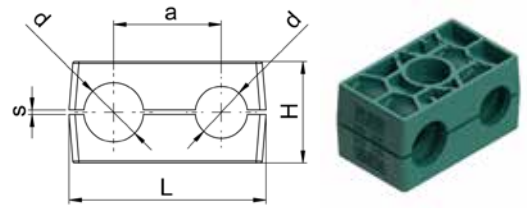
PP, Serie B (Zweirohrschellen)

Corps de collier

PP, série B (colliers à deux tubes)

Clamp body

PP, series B (twin-tube clamp)

RS RGB-PP

Type -S-d	Mat.-Nr.	G	L	H	a	s	kg/100
RS RGB-PP-1-6	916.1000.106	-	36.0	27.0	20.0	1.00	1.330
RS RGB-PP-1-10	916.1000.110	G 1/8	36.0	27.0	20.0	1.00	1.230
RS RGB-PP-1-12	916.1000.112	-	36.0	27.0	20.0	1.00	1.130

Lieferung nur in Einheitspackungen = Beutel à 25 Stk.

Livrable seulement dans des unités d'emballage = sachets de 25 pcs.

Delivery in packing units only = bags with 25 pcs.

Schellenkörper

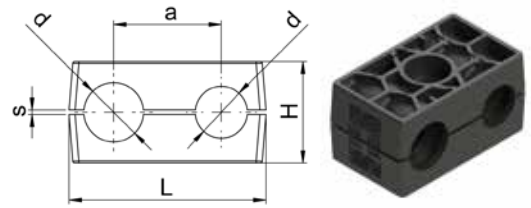
PA, Serie B (Zweiroherschellen)

Corps de collier

PA, série B (colliers à deux tubes)

Clamp body

PA, series B (twin-tube clamp)

**RS RGB-PA**

Type -S-d	Mat.-Nr.	G	L	H	a	s	kg/100
RS RGB-PA-1-6	916.2000.106	-	36.0	27.0	20.0	1.00	1.680
RS RGB-PA-1-10	916.2000.110	G 1/8	36.0	27.0	20.0	1.00	1.540
RS RGB-PA-2-15	916.2000.215	-	53.0	27.4	29.0	1.20	2.160
RS RGB-PA-2-18	916.2000.218	-	53.0	27.4	29.0	1.20	1.800
RS RGB-PA-4-28	916.2000.428	-	82.0	42.0	52.0	2.00	3.980
RS RGB-PA-5-35	916.2000.535	-	106.0	54.0	56.0	2.00	7.200

Lieferung nur in Einheitspackungen = Beutel à 25 Stk.

Livable seulement dans des unités d'emballage = sachets de 25 pcs.

Delivery in packing units only = bags with 25 pcs.

Schellenkörper

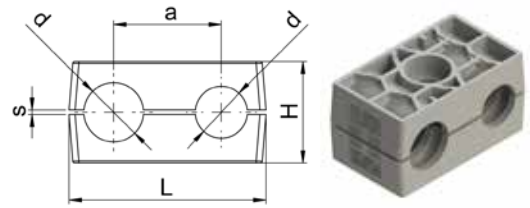
PA flammhemmend, Serie B (Zweirohrschellen)

Corps de collier

PA ignifugé, série B (colliers à deux tubes)

Clamp body

PA flame retardant, series B (twin-tube clamp)

**RS RGB-PA F**

Type -S-d	Mat.-Nr.	d (")	G	L	H	a	s	kg/100
RS RGB-PA-1-8 F	916.2000.108.F	5/16	-	36.0	27.0	20.0	1.00	1.540
RS RGB-PA-1-10 F	916.2000.110.F	-	G 1/8	36.0	27.0	20.0	1.00	1.540
RS RGB-PA-1-12 F	916.2000.112.F	-	-	36.0	27.0	20.0	1.00	1.600
RS RGB-PA-2-15 F	916.2000.215.F	-	-	53.0	27.4	29.0	1.20	2.160
RS RGB-PA-4-28 F	916.2000.428.F	-	-	82.0	42.0	52.0	2.00	3.980
RS RGB-PA-5-35 F	916.2000.535.F	-	-	106.0	54.0	56.0	2.00	7.200

Lieferung nur in Einheitspackungen = Beutel à 25 Stk.

Livrable seulement dans des unités d'emballage = sachets de 25 pcs.

Delivery in packing units only = bags with 25 pcs.

Anschweisplatte kurz

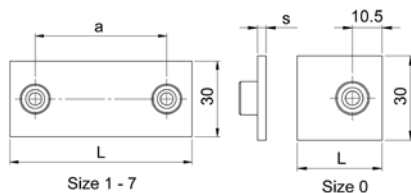
Stahl phosphatiert, Serie A

Plaque à souder courte

acier phosphaté, série A

Weld-on plate short

steel phosphatized, series A

**RS AKZ1A-SB**

Type -S	Mat.-Nr.	L	a	s	kg/100
RS AKZ1A-SB-0	946.3108.000	30.0	0.0	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

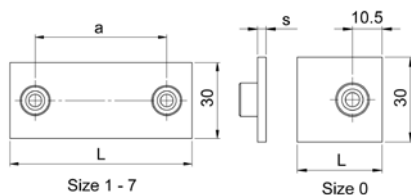
Edelstahl 1.4571/1.4401, Serie A

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	0.0	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

Lieferung nur in Einheitspackungen:
Größen 0 bis 6 = Beutel à 25 Stk.
Größe 7 = Beutel à 10 Stk.

Livable seulement dans des unités
d'emballage:
Dimensions 0 à 6 = Sachets de 25 pcs.
Dimension 7 = Sachets de 10 pcs.

Delivery in packing units only:
Sizes 0 to 6 = Bags with 25 pcs.
Size 7 = Bags with 10 pcs.

Anschweisplatte kurz

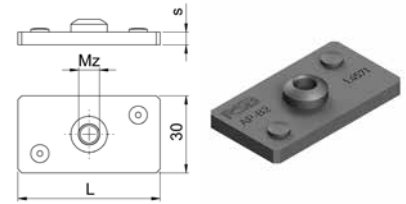
mit Verdrehsicherung, Edelstahl 1.4571/1.4401, Serie B

Plaque à souder courte

avec verrou de torsion, acier inoxydable 1.4571/1.4401, série B

Weld-on plate short

with torsion lock, stainless steel 1.4571/1.4401, series B

**RS AKZ3B-E1**

Type -S	Mat.-Nr.	Mz	L	s	kg/100
RS AKZ3B-E1-1	956.5118.100	M6	37.0	3.00	2.620
RS AKZ3B-E1-2	956.5118.200	M8	55.0	5.00	6.200
RS AKZ3B-E1-3	956.5118.300	M8	70.0	5.00	7.900
RS AKZ3B-E1-4	956.5118.400	M8	85.0	5.00	9.800
RS AKZ3B-E1-5	956.5118.500	M8	110.0	5.00	12.600

Lieferung nur in Einheitspackungen = Beutel à 25 Stk.

Livrabte seulement dans des unités d'emballage = sachets de 25 pcs.

Delivery in packing units only = bags with 25 pcs.

Deckplatte

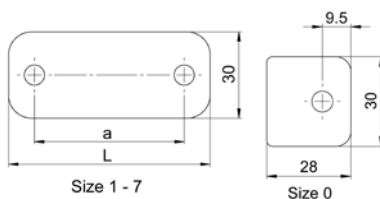
Stahl verzinkt, Serie A

Plaque de couverture

acier zingué, série A

Cover plate

zinc-plated steel, series A

RS DPA-VZ

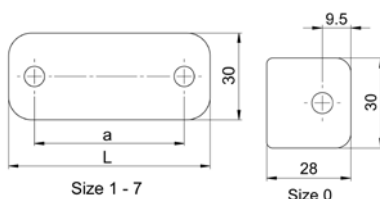
Type-S	Mat.-Nr.	L	a	kg/100
RS DPA-VZ-0	946.4130.000	28.0	0.0	1.700
RS DPA-VZ-1	946.4130.100	34.0	20.0	2.100
RS DPA-VZ-2	946.4130.200	40.0	26.0	2.500
RS DPA-VZ-3	946.4130.300	48.0	33.0	3.100
RS DPA-VZ-4	946.4130.400	57.0	40.0	3.700
RS DPA-VZ-5	946.4130.500	70.0	52.0	4.600
RS DPA-VZ-6	946.4130.600	86.0	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 couvertureacier 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	0.0	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

Lieferung nur in Einheitspackungen:
Größen 0 bis 6 = Beutel à 25 Stk.
Größe 7 = Beutel à 10 Stk.

Livable seulement dans des unités
d'emballage:
Dimensions 0 à 6 = Sachets de 25 pcs.
Dimension 7 = Sachets de 10 pcs.

Delivery in packing units only:
Sizes 0 to 6 = Bags with 25 pcs.
Size 7 = Bags with 10 pcs.

Deckplatte

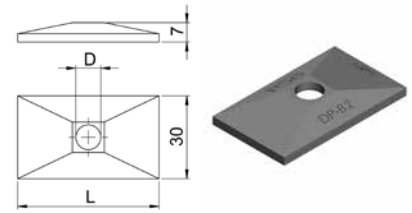
Edelstahl 1.4571/1.4401, Serie B

Plaque de couverture

acier inoxydable 1.4571/1.4401, série B

Cover plate

stainless steel 1.4571/1.4401, series B

**RS DPB-E1**

Type-S	Mat.-Nr.	L	kg/100
RS DPB-E1-1	956.5130.100	34.0	2.300
RS DPB-E1-2	956.5130.200	51.0	3.400
RS DPB-E1-3	956.5130.300	64.0	4.400
RS DPB-E1-4	956.5130.400	78.0	5.300
RS DPB-E1-5	956.5130.500	102.0	7.200

Lieferung nur in Einheitspackungen = Beutel à 25 Stk.

Livable seulement dans des unités d'emballage = sachets de 25 pcs.

Delivery in packing units only = bags with 25 pcs.

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

Lieferung nur in Einheitspackungen:

Größen 0 bis 6 = Beutel à 50 Stk.

Größe 7 = Beutel à 20 Stk.

Livable seulement dans des unités

d'emballage:

Dimensions 0 à 6 = Sachets de 50 pcs.

Dimension 7 = Sachets de 20 pcs.

Delivery in packing units only:

Sizes 0 to 6 = Bags with 50 pcs.

Size 7 = Bags with 20 pcs.

Sechskantschraube

Edelstahl 1.4571/1.4401, Serie B

Vis à tête hexagonale

acier inoxydable 1.4571/1.4401, série B

Hexagon screw

stainless steel 1.4571/1.4401, series B

**RS SSB-E1**

Type -S	Mat.-Nr.	Mz	L	kg/100
RS SSB-E1-1	956.5210.100	M6	35.0	0.900
RS SSB-E1-2	956.5210.200	M8	35.0	1.900
RS SSB-E1-3	956.5210.300	M8	45.0	2.300
RS SSB-E1-4	956.5210.400	M8	50.0	2.500
RS SSB-E1-5	956.5210.500	M8	60.0	2.900

Lieferung nur in Einheitspackungen:

Grösse 1 = Beutel à 50 Stk.

Grösse 2-5 = Beutel à 25 Stk.

Livrabile seulement dans des unités
d'emballage:

Dimension 1 = Sachets de 50 pcs.

Dimension 2 - 5 = Sachets de 25 pcs.

Delivery in packing units only:

Size 1 = Bags with 50 pcs.

Size 2 - 5 = Bags with 25 pcs.

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

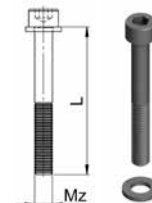
Edelstahl 1.4571/1.4401, Serie A

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:

Größen 0 bis 6 = Beutel à 50 Stk.

Größe 7 = Beutel à 20 Stk.

Livable seulement dans des unités

d'emballage:

Dimensions 0 à 6 = Sachets de 50 pcs.

Dimension 7 = Sachets de 20 pcs.

Delivery in packing units only:

Sizes 0 to 6 = Bags with 50 pcs.

Size 7 = Bags with 20 pcs.

Innensechskantschraube

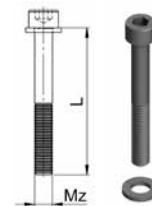
Edelstahl 1.4571/1.4401, Serie B

Vis à six pans creux

acier inoxydable 1.4571/1.4401, série B

Hexagon socket screw

stainless steel 1.4571/1.4401, series B

**RS ISB-E1**

Type -S	Mat.-Nr.	Mz	L	kg/100
RS ISB-E1-1	956.5220.100	M6	35.0	1.100
RS ISB-E1-2	956.5220.200	M8	35.0	1.800
RS ISB-E1-3	956.5220.300	M8	45.0	2.200
RS ISB-E1-4	956.5220.400	M8	50.0	2.900
RS ISB-E1-5	956.5220.500	M8	60.0	3.300

Lieferung nur in Einheitspackungen:

Grösse 1 = Beutel à 50 Stk.

Grösse 2-5 = Beutel à 25 Stk.

Livrabile seulement dans des unités
d'emballage:

Dimension 1 = Sachets de 50 pcs.

Dimension 2 - 5 = Sachets de 25 pcs.

Delivery in packing units only:

Size 1 = Bags with 50 pcs.

Size 2 - 5 = Bags with 25 pcs.

Aufbauschraube

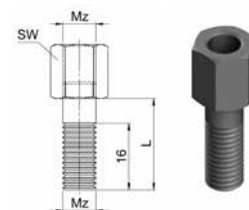
Edelstahl 1.4571/14401, Serie A

Vis d'empilage

acier inoxydable 1.4571/14401, série A

Stacking screw

stainless steel 1.4571/14401, serie A

**RS ASA-E1**

Type -S	Mat.-Nr.	Mz	L	kg/100
RS ASA-E1-0/1	946.5240.000	M6	20.0	1.300
RS ASA-E1-2	946.5240.200	M6	25.0	1.300
RS ASA-E1-3	946.5240.300	M6	28.0	1.450
RS ASA-E1-4	946.5240.400	M6	34.0	1.600
RS ASA-E1-5	946.5240.500	M6	50.0	2.000
RS ASA-E1-6	946.5240.600	M6	60.0	2.200

Lieferung nur in Einheitspackungen = Beutel à
25 Stk.Livrabile seulement dans des unités d'emballage
= sachets de 25 pcs.Delivery in packing units only = bags with
25 pcs.

Tragschiene

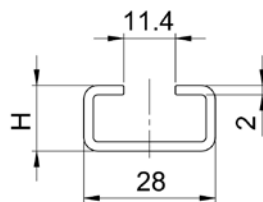
Stahl blank, Serie A

Rail de support

acier, série A

Mounting rail

steel, series A

RSTS-SB

Type	Mat.-Nr.	L	H	kg/m
RS TS11A-SB-1m	946.4140.111	1000.0	11.0	0.866

Tragschiene

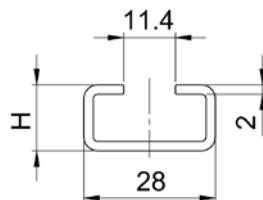
Edelstahl 1.4571/1.4401, Serie A

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.	L	H	kg/m
RS TS11A-E1-1m	946.5140.111	1000.0	11.0	0.862

Tragschienenmutter

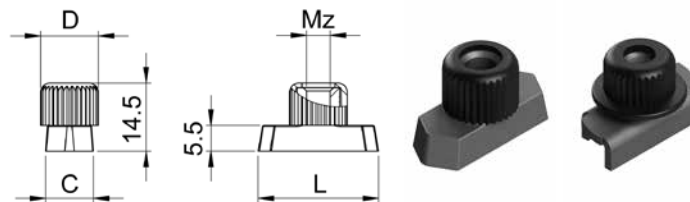
Stahl verzinkt, Serie A

Écrou pour rail de support

acier zingué, série A

Rail nut

zinc-plated steel, series A

RS TMA-VZ/TMVA-VZ

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

Tragschienenmutter

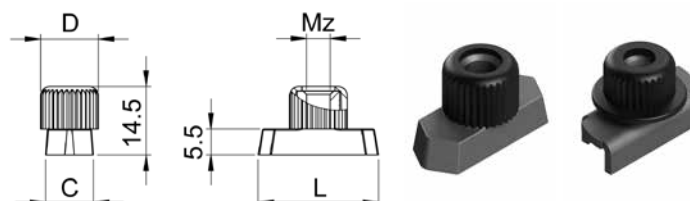
Edelstahl 1.4571/1.4401, Serie A

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.	Mz	L	C	D	kg/100
RS TMA-E1	946.5160.000	M6	25.4	10.4	12.0	1.508
RS TMVA-E1	946.5170.000	M6	24.9	10.5	12.0	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 à 50 Stk.

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 de 50 pcs.

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 of 50 pcs. only

Tragschienenmutter

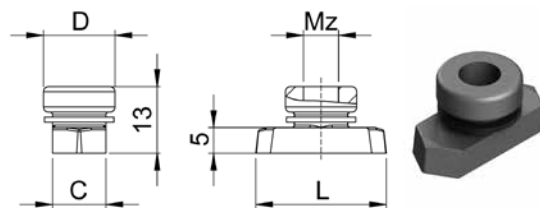
Edelstahl 1.4571/1.4401, Serie B

Écrou pour rail de support

acier inoxydable 1.4571/1.4401, série B

Rail nut

stainless steel 1.4571/1.4401, series B

RS TMB-E1

Type	Mat.-Nr.	Mz	L	C	D	kg/100
RS TMB-E1	956.5160.000	M8	25.4	10.4	14.0	1.300

Passend für Grösse 2 - 5. Lieferung in Einheitspackungen à 25 Stk.

Für Grösse 1 verwenden Sie bitte die Tragschienenmutter der Serie A.

Convient aux tailles 2 à 5. Livrable seulement dans des unités d'emballage de 25 pcs.

Pour la taille 1, veuillez utiliser l'écrou pour rail de support de la série A.

Suitable for size 2 - 5. Delivery in packing units of 25 pcs.

For size 1 please use rail nut of series A.

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.



Note: When using hexagon socket screws no cover plates are used. The hexagon socket screws are countersunk in the clamp body.

Technical Information

Screw tightening torques and axial tube holding power

The specified screw tightening torques and axial tube holding power are based on the respective type of installation. 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).

1. Installation with hexagon screws and cover plates according to ISO 4014/4017 (DIN 931/933).

Retaining screw for all types M6

Size	PP		PA		Aluminium	
	Tightening torque (Nm)	Tube holding power F (kN)	Tightening torque (Nm)	Tube holding power F (kN)	Tightening torque (Nm)	Tube holding power F (kN)
0	8	0.6	10	0.6	12	3.5
1	8	1.1	10	0.7	12	4.2
2	8	1.2	10	0.8	12	4.3
3	8	1.4	10	1.6	12	4.8
4	8	1.5	10	1.7	12	5.0
5	8	1.9	10	2.0	12	7.3
6	8	2.0	10	2.5	12	8.9
7	8	2.3	10	3.2		

2. Installation with hexagon socket screws, without cover plates, according to ISO 4762

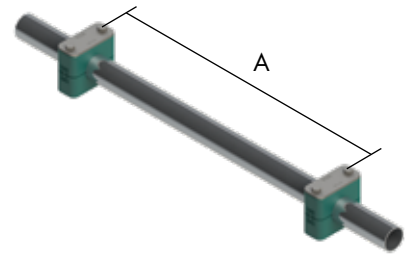
Retaining screw for all types M6

Size	PP		PA		Aluminium	
	Tightening torque (Nm)	Tube holding power F (kN)	Tightening torque (Nm)	Tube holding power F (kN)	Tightening torque (Nm)	Tube holding power F (kN)
0			on request			
1	2.0	0.45	2.5	0.55	12	4.2
2	2.0	0.85	2.5	0.95	12	4.3
3	2.0	0.60	2.5	0.65	12	4.8
4	2.5	0.85	3.5	1.05	12	5.0
5	2.5	1.30	3.5	1.40	12	7.3
6	2.5	1.05	3.5	1.15	12	8.9
7			on request			

Technical Information

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



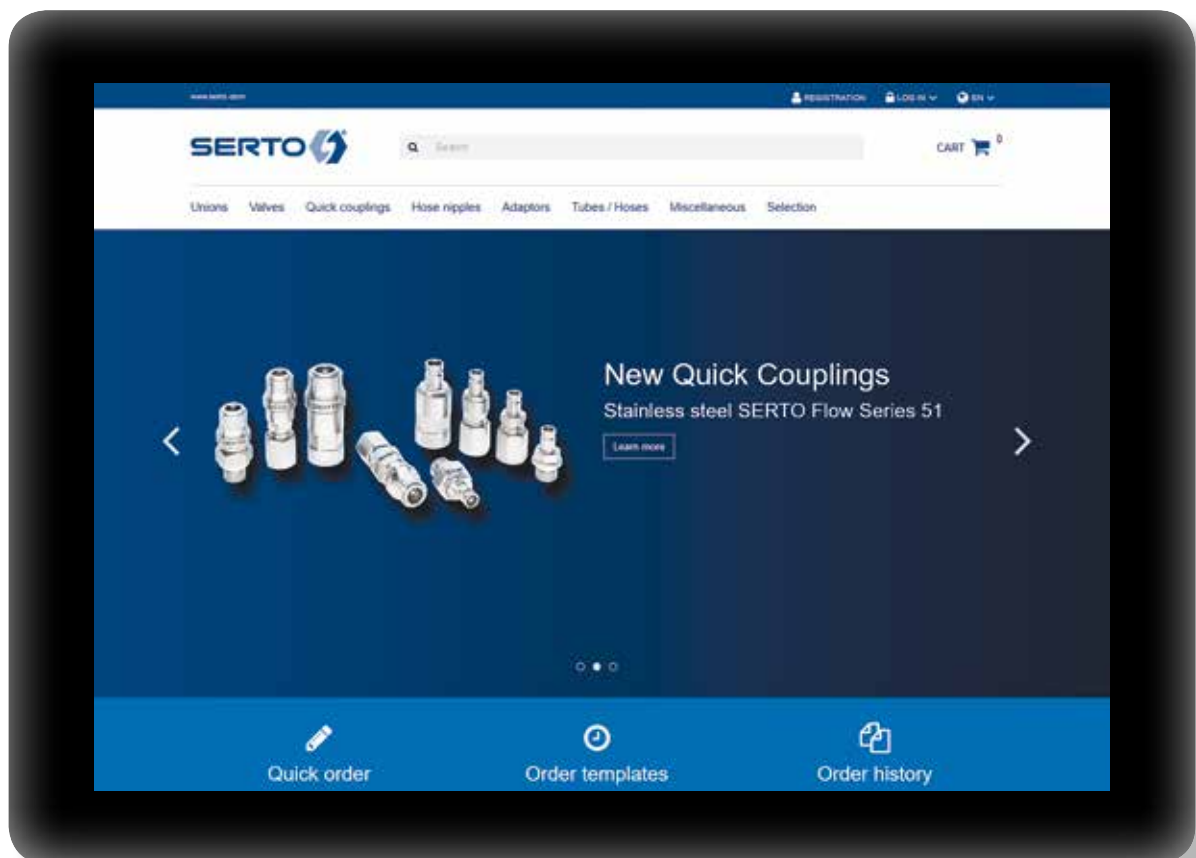
Tube elbow installation

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

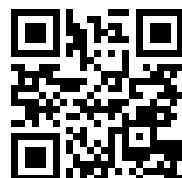


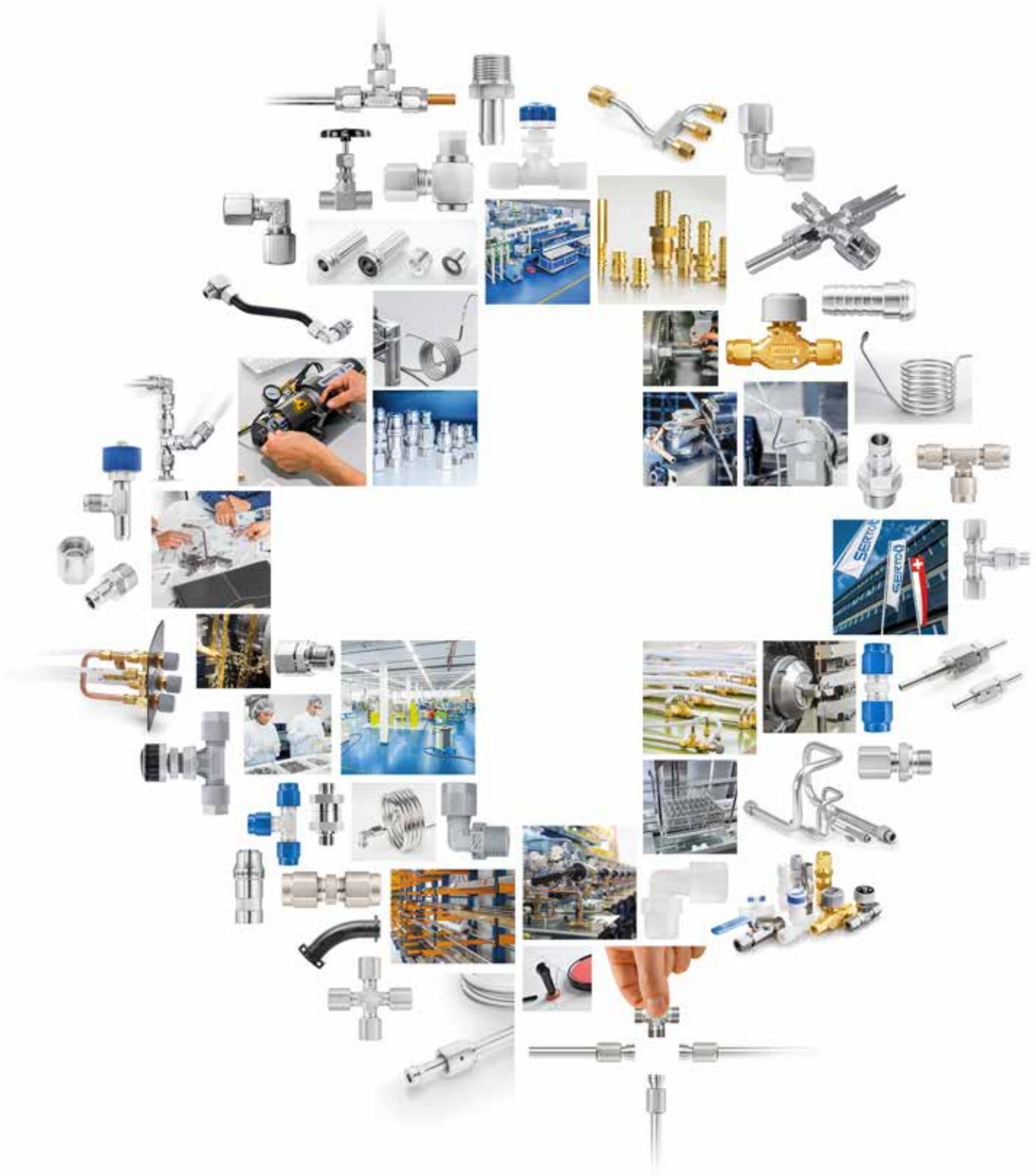
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