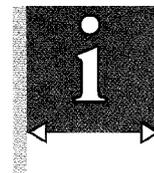


RS PRODUCT_NB	MFCTR_PART	PAGE No
3825464	E26.2/45.100.0	3.49
3825442	E200.2/50.075.0	3.33
3825515	E300.2/45.150.0	3.59
3825492	E26.3/45.100.0	3.49
3825537	E300.3/45.150.0	3.59
3825290	E08.20.038.0	3.21
3825363	E14.2.048.0	3.27
3825313	E08.30.038.0	3.21
3825341	E08.40.038.0	3.21
3825385	E14.3.048.0	3.27
3825408	E14.4.048.0	3.27
3825420	E200.2/35.075.0	3.33
3825470	2610.12PZ.V2	3.55
3825458	2100.12PZ.V2	3.39
3825521	3100.12PZ.V2	3.65
3825509	2615.12PZ.V2	3.55
3825559	3150.12PZ.V2	3.65
3825307	080.20.12.V2	3.23
3825335	080.30.12.V2	3.23
3825379	114.2.12P.V2	3.29
3825357	080.40.12.V2	3.23
3825391	114.3.12P.V2	3.29
3825414	114.4.12P.V2	3.29
3825436	2070.12PZ.V2	3.39
3825638	167.175.100.0	6.21
3825650	167.175.200.0	6.21
3825587	157.050.175.0	6.11
3825565	157.050.100.0	6.21
3825593	167.075.100.0	6.21
3825622	167.075.200.0	6.21
3825644	1680.175.12	6.24
3825571	1580.050.12	6.16
3825616	1680.075.12	6.24

3825127	09.10.038.0	4.9
3825212	15.1.048.0	4.19
3825149	09.20.038.0	4.9
3825032	07.30.038.0	4.5
3825155	09.30.038.0	4.9
3825060	07.40.038.0	4.5
3825177	09.40.038.0	4.9
3825082	07.50.038.0	4.5
3825199	09.50.038.0	4.9
3825228	15.4.048.0	4.19
3825098	07.64.038.0	4.5
3825240	17.5.075.0	4.25
3825278	17.6.075.0	4.25
3825133	080.10.12	5.21
3829725	101.12PZ	5.34
2364867	080.20.12	5.21
3825054	060.30.12	5.18
3825161	080.30.12	5.21
3825076	060.40.12	5.18
3825183	080.40.12	5.21
3828025	060.40.12	5.18
3825206	080.50.12	5.21
3825234	104.12PZ	5.34
3825111	060.64.12	5.18
3825256	117.5.12PZ	4.27
3825284	117.6.12PZ	4.27



Material Data Table igumid G and igumid NB

Chemical Resistance igumid G and NB

	Units of Measure	Values igumid G	Values igumid NB
Yield stress	N/mm <sup>2</sup>	190/130 <sup>1)</sup>	78/40
Elongation at break	%	4/6	50/230
Elasticity module (tensile test)	N/mm <sup>2</sup>	9000/7000	2900-1200
Impact strength 23°C	kJ/mm <sup>2</sup>	55/65/55 <sup>2)</sup>	not broken
-40°C			
Creep modulus E 23/50	N/mm <sup>2</sup>	5400 <sup>3)</sup>	
120°C		2100 <sup>3)</sup>	
Ball indentation hardness H 961/30	N/mm <sup>2</sup>	230/160 <sup>1)</sup>	150/60
Temperature limit of the application up to several hours	°C	up to 200	
5.000 h		140	150
20.000 h		130	80
Heat conductivity	W/k · m	0,23	
Dielectric constant		10 <sup>1)</sup> Hz	3,9/6,2 <sup>1)</sup>
Special transitional resistance	Ω x cm	10 <sup>15</sup> /10 <sup>12</sup>	1015-1011
Impact strength density 0,6-0,8mm	kV/mm	80 <sup>2)</sup>	90-100
Surface resistance R <sub>0A</sub>	Ω	10 <sup>13</sup> 10 <sup>10-11</sup>	1013-1011
Density	g/cm <sup>3</sup>	1,4	1,13-1,14
Absorption of humidity 23/50 RF	%	1,8	1,53
Coefficient of sliding friction		0,3	
Fire resistance as per VDE		II c	V2
Fire resistance as per UL		94 HB	94 VO

1. Dry/humid
2. Dry
3. Humid

Specifications for igumid GC material available upon request.

**Resistance classes:**

- A: resistant
- B: conditionally resistant
- C: partially resistant
- D: non-resistant
- E: soluble
- Sat. aq. sol.: saturated aqueous solution
- Conc. aq. sol.: concentrated aqueous solution

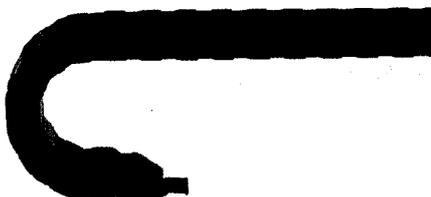
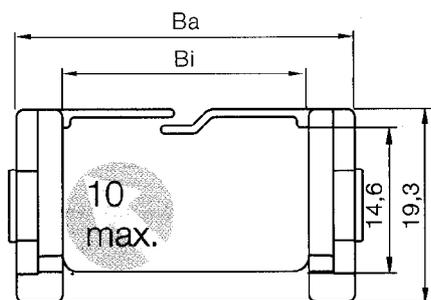
The values specified are values determined by laboratory tests and are material-specific. All specifications apply to black Energy Chains®.

Medium	Concentration Weight %	igumid G and NB
Acetone	100	A
Formic acid (aqueous)	2	B
Ammonia (aqueous)	10	A
Gasoline	100	A
Benzole	100	A
Bitumen	100	B
Boric acid (aqueous)	10	A
Butyric acid	100	B
Calcium chloride (aqueous)	Ges. w. L.	A
Chlorinated hydrocarbons		
Chlorine water	Ges. w. L.	C
Chromic acid (aqueous)	1	B
Diesel oil	100	A
Iron II cyanide	30	B
Acetic acid	2	A
Color		A
Fats, cooking		A
Fluorinated hydrocarbons		A
Formaldehyde (aqueous)	30	B
Hydraulic oils		A
Caustic potash	10	A
Potassium carbonate (aqueous)	60	A
Potassium sulphate (aqueous)	100	A
Methyl acetate	100	A
Milk		A
Mineral oil		A
Sodium carbonate (aqueous)	50	A
Oil, cooking		A
Oil, lubricating oil		A
Oleic acid	100	A
Paraffin oil		A
Perchlorethylene	100	A
Polyester resins (with styrene)		A
Propane gas		A
Mercury		A
Hydrochloric acid	pH2	B
Hydrochloric acid	2	C
Hydrochloric acid	10	D
Ink, printing ink		A
Vaseline		A
Tartaric acid		B
Zinc sulfate (aqueous)	10	A

## Product Range



### E08 (split crossbar along the outer radius)



Order Example



E08.20.038.0

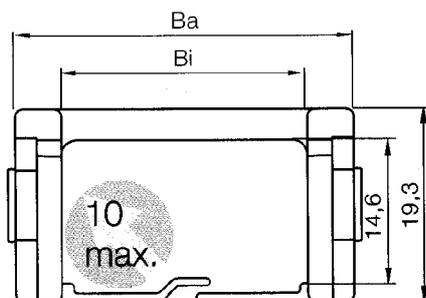
Standard color  
0 = Black

● Other colors  
▶ Design,  
Page 1.62

Part No.	Bi	Ba	Bending Radii for All Chain Widths
E08.10. Radius	10	18,2	028 038 048
E08.16. Radius	16	24,2	028 038 048
E08.20. Radius	20	28,2	028 038 048
E08.30. Radius	30	38,2	028 038 048
E08.40. Radius	40	48,2	028 038 048
E08.50. Radius	50	58,2	028 038 048

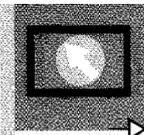
Supplement part no. with required radius  
for example, E08.20.038.0

### Z08 (split crossbar along inner radius)



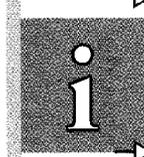
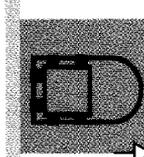
Part No.	Bi	Ba	Bending Radii for All Chain Widths
Z08.10. Radius	10	18,2	028 038 048
Z08.16. Radius	16	24,2	028 038 048
Z08.20. Radius	20	28,2	028 038 048
Z08.30. Radius	30	38,2	028 038 048
Z08.40. Radius	40	48,2	028 038 048
Z08.50. Radius	50	58,2	028 038 048

Supplement part no. with required radius  
for example, Z08.20.038.0

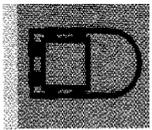


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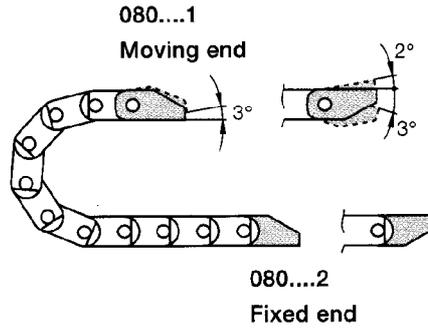


# Mounting Brackets: Series E08/Z08 "Easy Chain"



## Polymer, One-Piece

- Standard
- ⊕ One-piece mounting bracket
- ⊕ Corrosion-resistant
- ⊕ Available pre-assembled
- ⊕ Available with integrated tiwrap plates
- ⊕ Inner and outer attachment possible



2 options for all applications

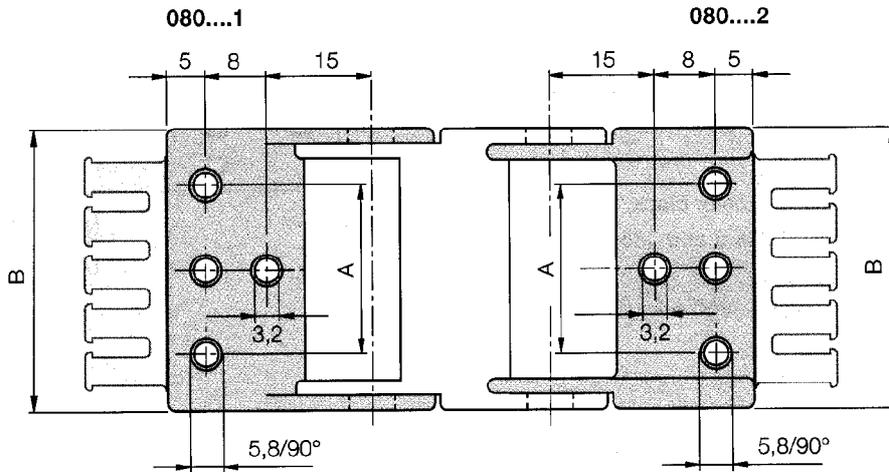
### Option 1:

- Without tiwrap plate



### Option 2:

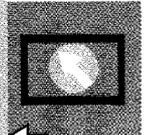
- With tiwrap plate



080.06.12 - 080.30.12: Center bores only

080.40.12 - 080.50.12: All bores

- **Quicksnap:** available from stock for Series 06-016; other widths available upon request



- **Quickfix:** With dowel for fast mounting, available from stock for 06-016, other widths available upon request

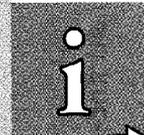


Chain Type	Part No. Full Set with Tiwrap Plate	Part No. Mounting Bracket Set	Number of Teeth	Dimension	
				A in mm	B in mm
E08/Z08.10	080.10.12 PZ	080.10.12	1	-	18,2
E08/Z08.16	080.16.12 PZ	080.16.12	2	-	24,2
E08/Z08.20	080.20.12 PZ	080.20.12	2	-	28,2
E08/Z08.30	080.30.12 PZ	080.30.12	3	-	38,2
E08/Z08.40	080.40.12 PZ	080.40.12	4	32	48,2
E08/Z08.50	080.50.12 PZ	080.50.12	5	42	58,2

080...12 = Full set, 1 part each with bolt/bore

080... 1 = Mounting bracket with bore

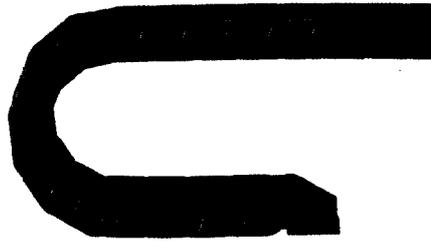
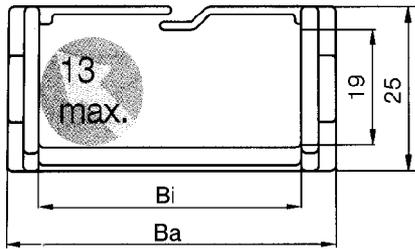
080... 2 = Mounting bracket with bolt



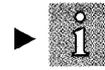
Product Range



E14 (split crossbar along the outer radius)



Order Example



E14.2.028.0

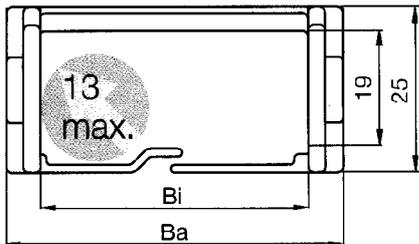
Standard color  
0 = Black

● Other colors  
▶ Design,  
Page 1.62

Part No.		Bi	Ba	Bending Radii for All Chain Widths
E14.1	Radius	15	27	028 038 048 075 100 125
E14.2	Radius	25	37	028 038 048 075 100 125
E14.3	Radius	38	50	028 038 048 075 100 125
E14.4	Radius	50	62	028 038 048 075 100 125

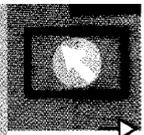
Supplement part no. with required radius  
for example, E14.2.028.0

Z14 (split crossbar along inner radius)



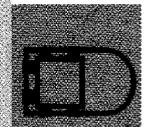
Part No.		Bi	Ba	Bending Radii for All Chain Widths
Z14.1	Radius	15	27	028 038 048 075 100 125
Z14.2	Radius	25	37	028 038 048 075 100 125
Z14.3	Radius	38	50	028 038 048 075 100 125
Z14.4	Radius	50	62	028 038 048 075 100 125

Supplement part no. with required radius  
for example, Z14.2.028.0



Series E14/Z14  
"Easy Chain"

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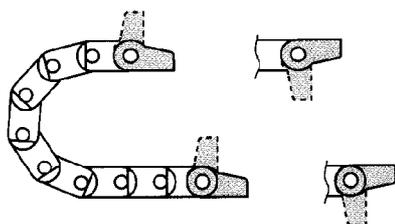
# Mounting Brackets: Series E14/Z14 "Easy Chain"



## Polymer, One-Piece

- ⓘ Standard
- ⊕ One-piece mounting bracket
- ⊕ Corrosion-resistant
- ⊕ Available pre-assembled
- ⊕ Inner and outer attachment possible
- ⊕ Available with integrated strain relief tiewrap plate

114....1  
Moving end



114....2  
Fixed end

2 options for all applications

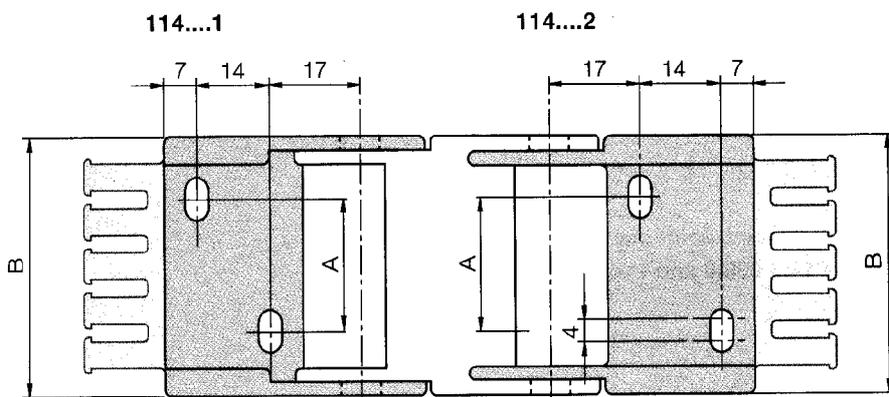
### Option 1:

- Without strain relief tiewrap plate



### Option 2:

- With strain relief tiewrap plate

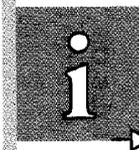
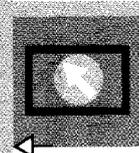


Chain Type	Part No.	Part No.	Dimension A	Dimension B
	Full Set with Tiewrap Plate	Mounting Bracket Set	in mm	in mm
E14/Z14.1	114.1.12PZ	114.1.12P	0	26
E14/Z14.2	114.2.12PZ	114.2.12P	10	36
E14/Z14.3	114.3.12PZ	114.3.12P	23	49
E14/Z14.4	114.4.12PZ	114.4.12P	35	61

114...12 = Full set, 1 part each with bolt/bore

114... 1 = Mounting bracket with bore

114... 2 = Mounting bracket with bolt



**Product Range: Series E200/Z200 "Easy Chain"**

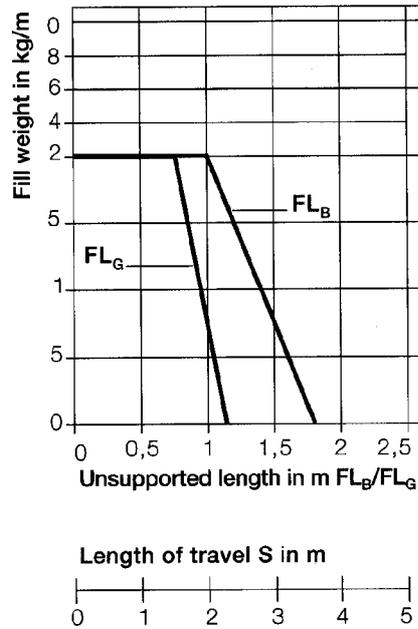
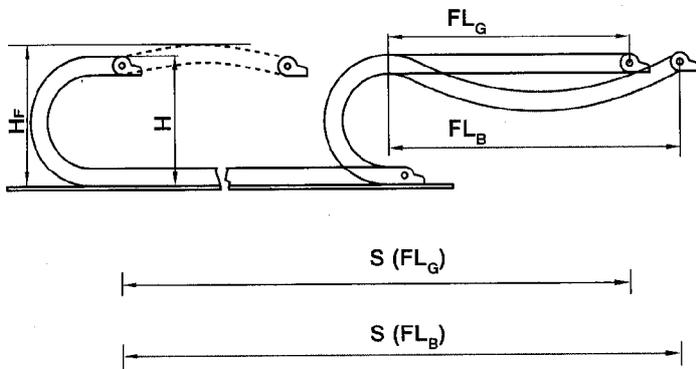


**Product Range:**

Inner Widths (Bi) in mm: 1x57, 2x37, 2x50  
 Bending Radii (R) in mm: 55, 75, 100, 150, 200  
 Pitch: 46 mm/link = 22 links/m (1012 mm)

**Unsupported length**

- $FL_B$  = unsupported with permitted sag
- $FL_G$  = unsupported with straight upper run



Unsupported Energy Chains® ► **Design, Page 1.8**, feature positive camber over short travels. This must be accounted for when specifying the clearance height. Please refer to **Installation Dimensions** for more details.

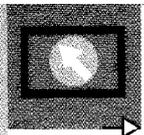
If the unsupported length is exceeded, the Energy Chain® must glide on itself. This requires a guide trough. ► **Design, Page 1.18**.

The "E" Series is conditionally suitable for gliding applications. The "Z" Series is not suitable.

**Other installation methods**

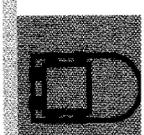
vertical, hanging = max. 10 m  
 Vertical standing = max. 1,5 m  
 Side mounted, unsupported = max. 0,5 m  
 Rotary = requires further calculation

- Further information
- Design, Page 1.62



Series E200/Z200  
 "Easy Chain"

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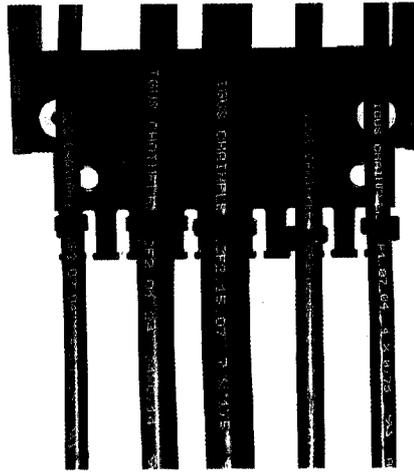


## Strain Relief: Series E200/Z200 "Easy Chain"

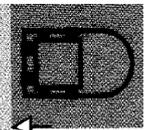


### Strain Relief for Polymer Mounting Brackets (pivoting or locking)

The strain relief tiewrap plates can be directly snapped on to the mounting bracket. After bolting the mounting brackets to the machine, the strain relief tiewrap plates are also firmly connected to the base. They do not need to be bolted on separately. Cable tiewraps secured around the tiewrap plate "teeth" and the cable provide proper strain relief and save time.

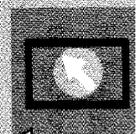


- Other Strain Relief elements
- ▶ Strain Relief Page 9.97



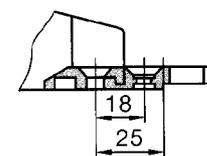
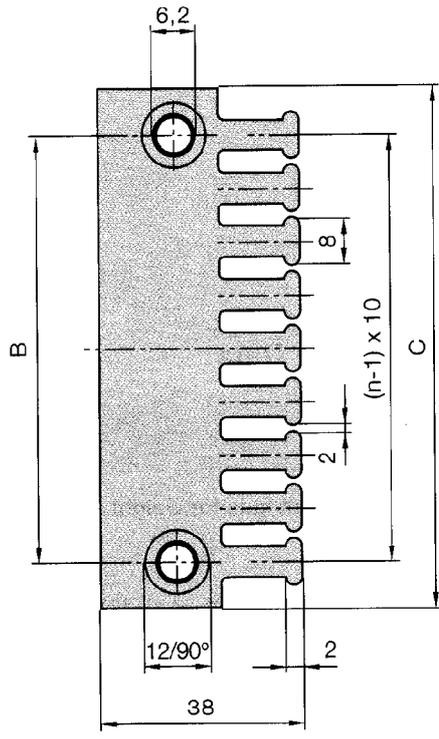
Series E200/Z200 "Easy Chain"

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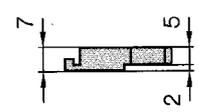


### Tiewrap Plate as a Separate Part

Tiewrap Plate	n Number of Teeth	C Total Width	B Hole Spacing
2020.ZB	3	30 mm	15 mm
2030.ZB	4	40 mm	20 mm
2040.ZB	5	50 mm	30 mm
2050.ZB	6	60 mm	40 mm
2070.ZB	8	80 mm	60 mm
2090.ZB	9	90 mm	70 mm
2100.ZB	10	100 mm	80 mm
2120.ZB	12	120 mm	100 mm



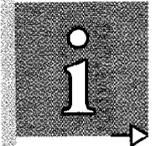
Single tiewrap plate



Shown assembled

### Cable Tiewraps as Individual Parts

Cable Tiewraps	Width x Length	Max. Ø Strength	Tensile
100 pieces/bag			
CFB.001	4,8 x 150 mm	36 mm	222 N



## Product Range: Series E26/Z26 "Easy Chain"



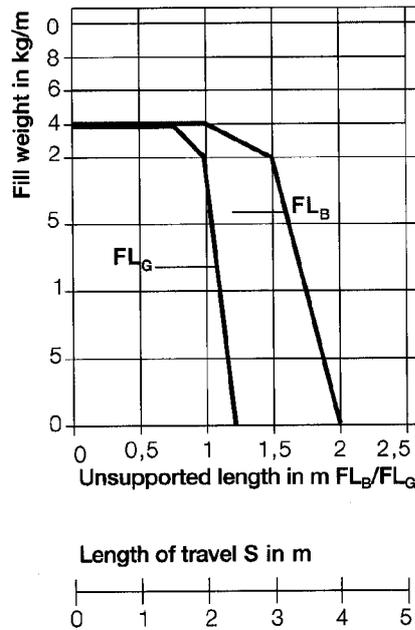
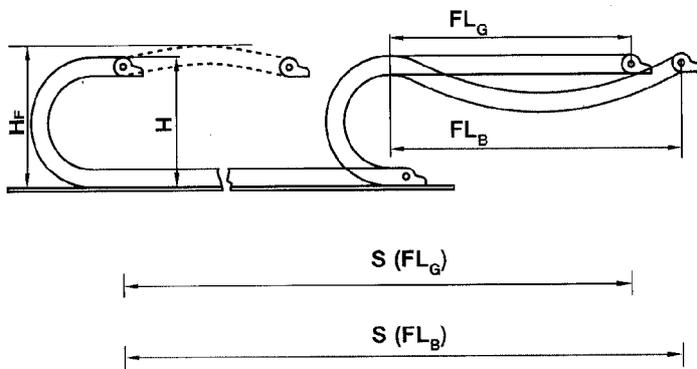
### Product Range:

Inner Widths (Bi) in mm: 1x75, 2x48, 3x47  
 Bending Radii (R) in mm: 63, 75, 100, 125, 150, 175, 200, 250  
 Pitch: 56 mm/link = 18 links/m (1008 mm)

\*Delivery time upon request

### Unsupported length

- $FL_B$  = unsupported with permitted sag
- $FL_G$  = unsupported with straight upper run



Unsupported Energy Chains® ► **Design, Page 1.8** feature positive camber over short travels. This must be accounted for when specifying the clearance height. Please refer to the **Installation Dimensions** section for further details.

If the unsupported length is exceeded, the Energy Chain® must glide on itself. This requires a guide trough. ► **Design, Page 1.18.**

The "E" Series is conditionally suitable for gliding applications. The "Z" Series is not suitable

### Other installation methods

Vertical, hanging = max. 10 m

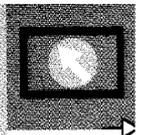
Vertical, standing = max. 1,5 m

Side mounted, unsupported = max. 0,5 m

Rotary = requires further calculation

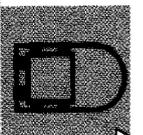
● Further information

► Design, Page 1.62



igus® Energy Chain Systems®

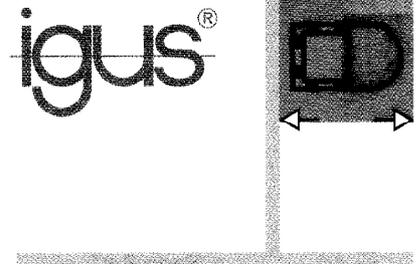
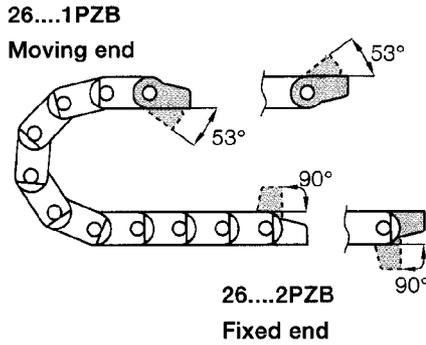
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# Mounting Brackets

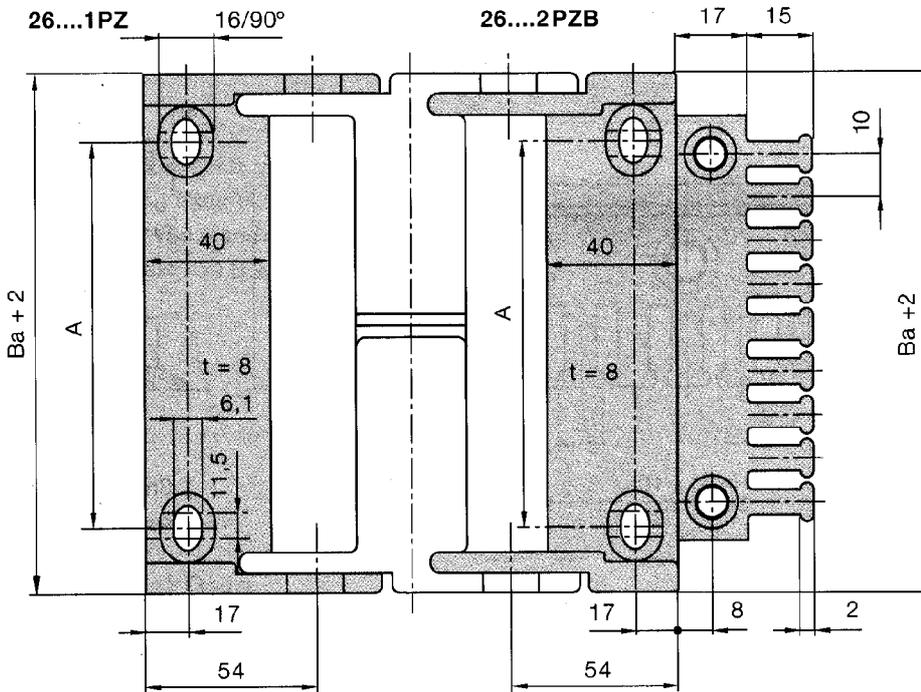
## Option 2: Locking

- Locked connections
- Vertical, hanging / vertical travel
- High accelerations
- Corrosion-resistant
- If the 1st chain link must pivot
- Gliding applications



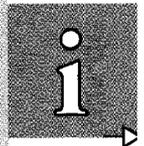
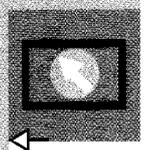
### Option 2: Polymer locking\*

- Locked connection



\*Photograph shows chain links of Series 27 with identical mounting brackets

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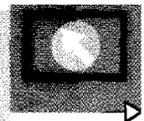
Chain Type	Part No. Full Set, with Tiewrap Plates	Part No. with Tiewrap Plates 10 Cable Tiewraps	Part No. Mounting Bracket Set	Dimension A in mm
E/Z26.07	2607.12PZB	2607.12PZBK1	2607.12PZ	55
E/Z26.2/45	2610.12PZB	2610.12PZBK1	2610.12PZ	80
E/Z26.3/45	2615.12PZB	2615.12PZBK1	2615.12PZ	130

26...12 PZB = Full set, 1 part each with pin, including tiewrap plate / bore including tiewrap plate

26...1 PZB = Mounting bracket with bore, including tiewrap plate

26...2 PZB = Mounting bracket with pin, including tiewrap plate

**Product Range: Series E300/Z300 "Easy Chain"**



**Product Range:**

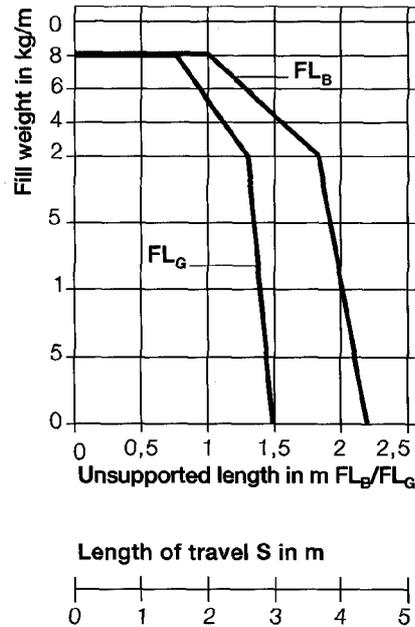
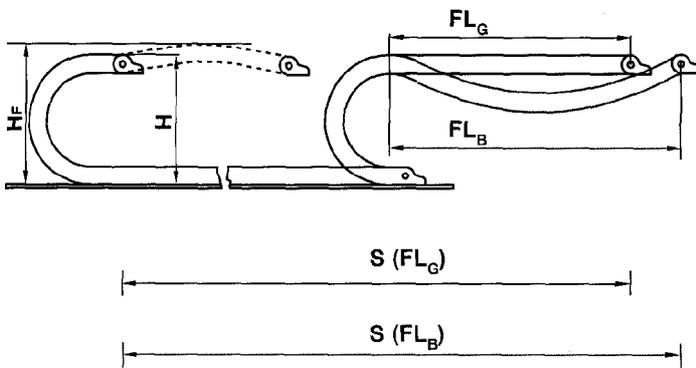
Inner Widths (Bi) in mm: 75, 2x48, 3x46\*  
 Bending Radii (R) in mm: 075\*, 100\*, 125\*, 150, 200,\* 250\*, 300\*  
 Pitch: 67 mm/link = 15 links/m (1005 mm)

\*Delivery time upon request

**Series E300/Z300  
"Easy Chain"**

**Unsupported length**

- FL<sub>B</sub> = unsupported with permitted sag
- FL<sub>G</sub> = unsupported with straight upper run



Unsupported Energy Chains® ► **Designing, Page 1.8**, feature positive camber over short travels. This must be accounted for when specifying the clearance height. Please see **Installation Dimensions** for further details.

If the unsupported length is exceeded the Energy Chain® must glide on itself. This requires a guide trough.

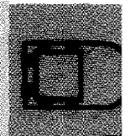
► **Design, Page 1.18.**

"E" Series is conditionally suitable for gliding applications. "Z" Series is not suitable.

**Other installation methods**

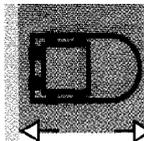
Vertical, hanging = max. 10 m  
 Vertical, standing = max. 1,5 m  
 Side-mounted, unsupported = max. 0,5 m  
 Rotary = requires further calculation

- Further information
- Design, Page 1.62



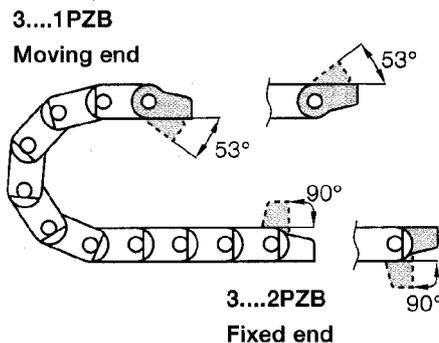
**Phone +49- (0) 22 03 96 49-0  
Fax +49- (0) 22 03 96 49-222**

# Mounting Brackets



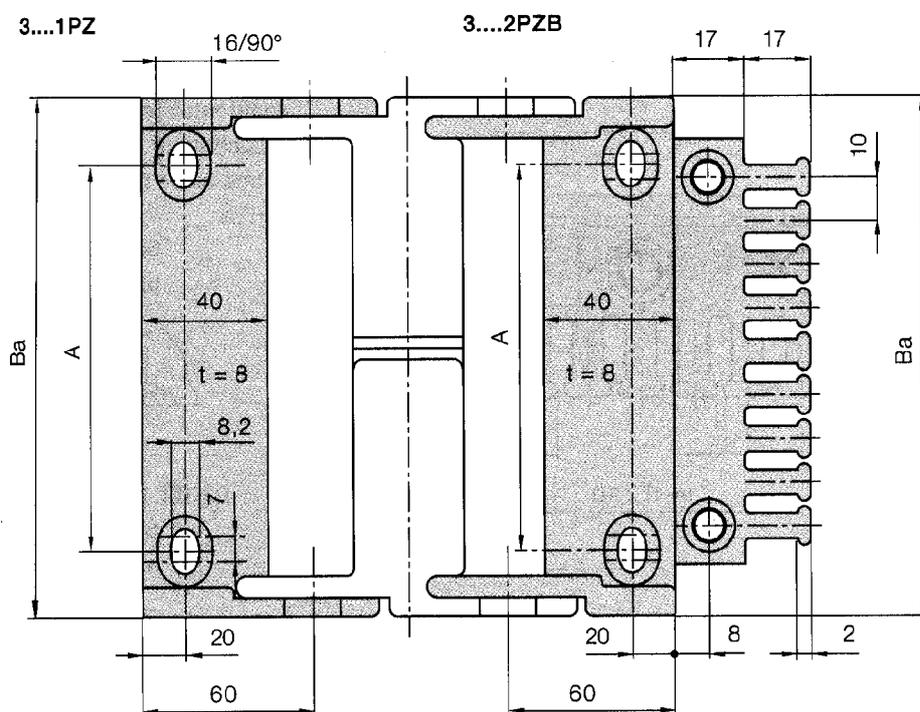
## Option 2: Locking

- Locked connections
- Vertical, hanging/vertical, standing travels
- High accelerations
- Corrosion-resistant
- If the 1st chain link must pivot
- Gliding applications



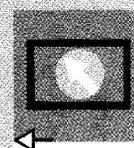
## Option 2: Polymer locking\*

- Locked connection



\* Photograph shows chain links of Series 350 with identical mounting brackets

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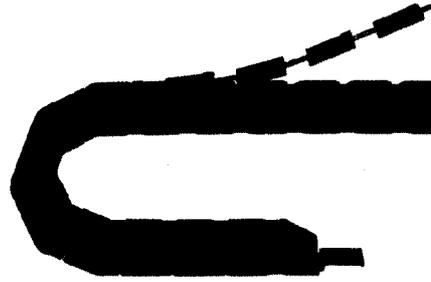
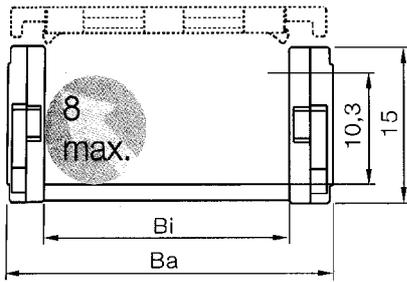


Chain Type	Part No. Full Set with Tiewrap Plates	Part No. with Tiewrap Plates 10 Cable Tiewraps	Part No. Mounting Bracket Set	Dimension A in mm
E/Z300.075	3075.12PZB	3075.12PZBK1	3075.12PZ	53
E/Z300.2/45	3100.12PZB	3100.12PZBK1	3100.12PZ	78
E/Z300.3/45	3150.12PZB	3150.12PZBK1	3150.12PZ	128

- 3...12 PZB** = Full set, 1 part each with pin, including tiewrap plate / bore including tiewrap plate
- 3...1 PZB** = Mounting bracket with bore. including tiewrap plate
- 3...2 PZB** = Mounting bracket with pin, including tiewrap plate



## Product Range



**igus**<sup>®</sup>

Order Example



07.20.038.0

Standard color

0 = Black

● Other colors

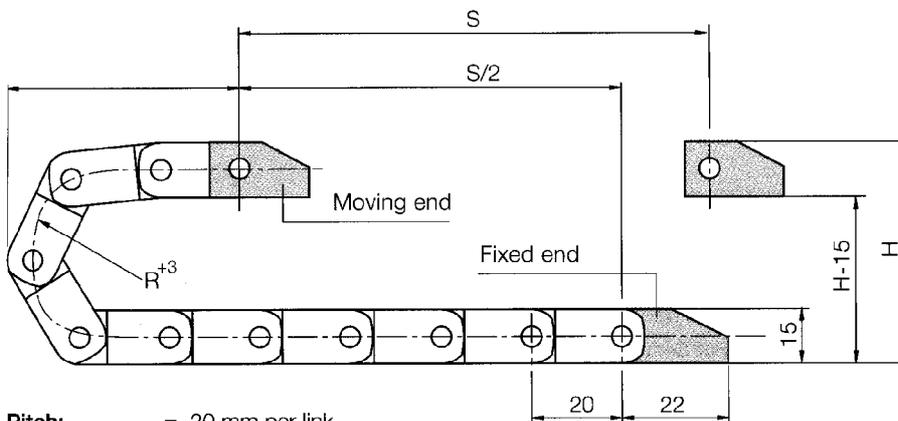
► Design,

Page 1.62

Part No.		Bi	Ba	Bending Radii for All Chain Widths
07.06.	Radius	6	12,5	018 028 038
07.10.	Radius	10	16,5	018 028 038
07.16.	Radius	16	22,5	018 028 038
07.20.	Radius	20	27,0	018 028 038
07.30.	Radius	30	37,0	018 028 038
07.40.	Radius	40	47,0	018 028 038
07.50.	Radius	50	57,0	018 028 038
07.64.	Radius	64	71,0	018 028 038

Supplement part no. with required radius  
for example 07.20.038.0

## Installation Dimensions



Pitch: = 20 mm per link

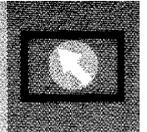
Links per m: = 50

Chain length: =  $\frac{S}{2} + K$

R	18	28	38
H*	52	72	92
D	45	55	65
K	100	140	160

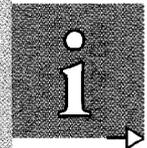
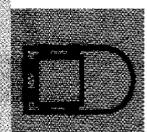
\*The required clearance height is HF = H + 10 (with 0,2 kg/m fill weight)

Please consult igus<sup>®</sup> if space is particularly restricted.

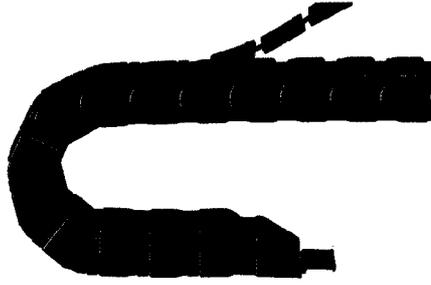
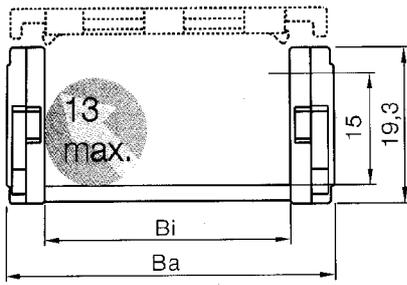


Series  
07 "Zipper"

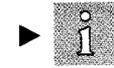
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Fax +49- (0) 22 03 96 49-222



# Product Range



Order Example



09.20.038.0

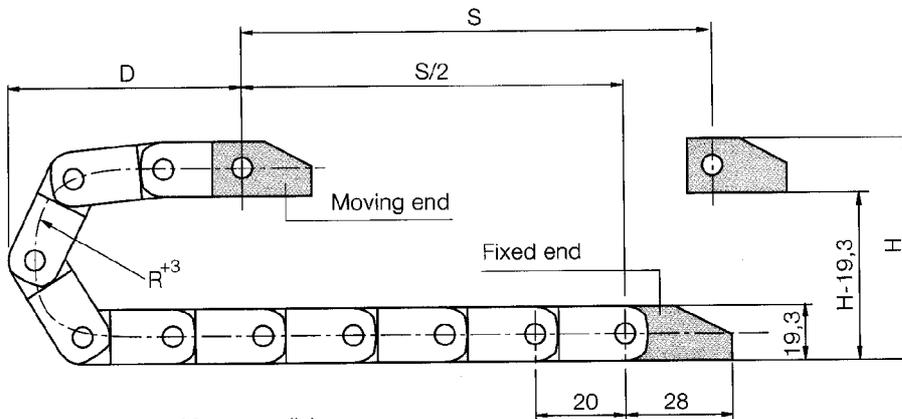
Standard color  
0 = Black

- Other colors
- ▶ Design, Page 1.62

Part No.		Bi	Ba	Bending Radii for All Chain Widths
09.10.	Radius	10	18,2	028 038 048
09.16.	Radius	16	24,2	028 038 048
09.20.	Radius	20	28,2	028 038 048
09.30.	Radius	30	38,2	028 038 048
09.40.	Radius	40	48,2	028 038 048
09.50.	Radius	50	58,2	028 038 048

Supplement part no. with required radius  
for example 09.20.038.0

## Installation Dimensions

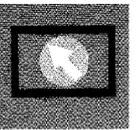


Pitch: = 20 mm per link  
 Links per m: = 50  
 Chain length: =  $\frac{S}{2} + K$

	028	038	048
R			
H*	76	96	116
D	60	70	80
K	130	160	190

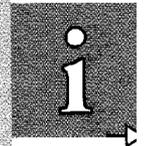
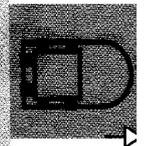


\*The required clearance height is  $HF = H + 15$  (with 0,3 kg/m fill weight)  
 Please consult igus® if space is particularly restricted.

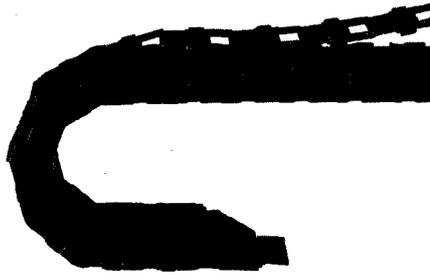
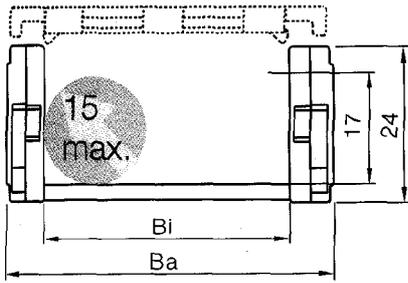


Series  
09 "Zipper"

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# Product Range



Order Example



15.2.038.0

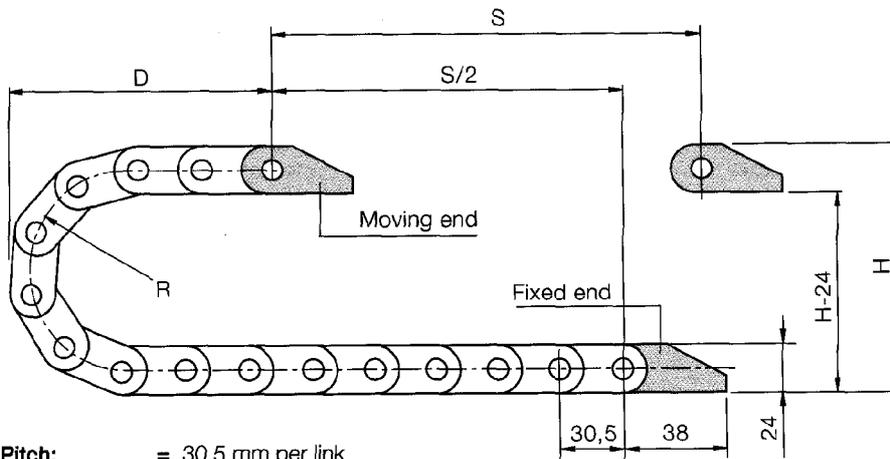
Standard color  
0 = Black

- Other colors
- ▶ Design, Page 1.62

Part No.		Bi	Ba	Bending Radii for All Chain Widths
15.1	Radius	15	26	038 048 075 110 145 180
15.2	Radius	25	36	038 048 075 110 145 180
15.3	Radius	38	49	038 048 075 110 145 180
15.4	Radius	50	61	038 048 075 110 145 180

Supplement part no. with required radius  
for example 15.2.100.0

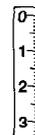
# Installation Dimensions



Pitch: = 30,5 mm per link  
 Links per m: = 33  
 Chain length: =  $\frac{S}{2} + K$

R	38	48	75	100*	110	125*	145	180
H*	100	120	175	225	245	275	315	385
D	90	120	145	155	170	190	225	279
K	185	215	300	375	410	455	520	630

\*The required clearance height is HF = H + 20 (with 1kg/m fill weight)  
 Please consult igus® if space is particularly restricted.

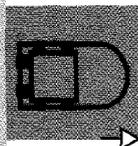
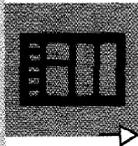


\* Delivery time available upon request

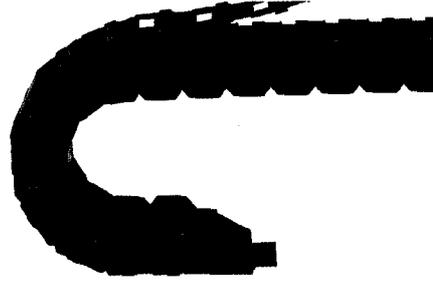
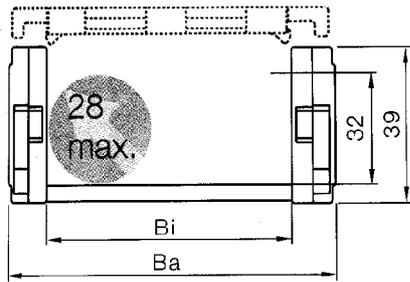


Series  
15 "Zipper"

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## Product Range



igus®

Order Example



17.2.048.0

Standard color  
0 = Black

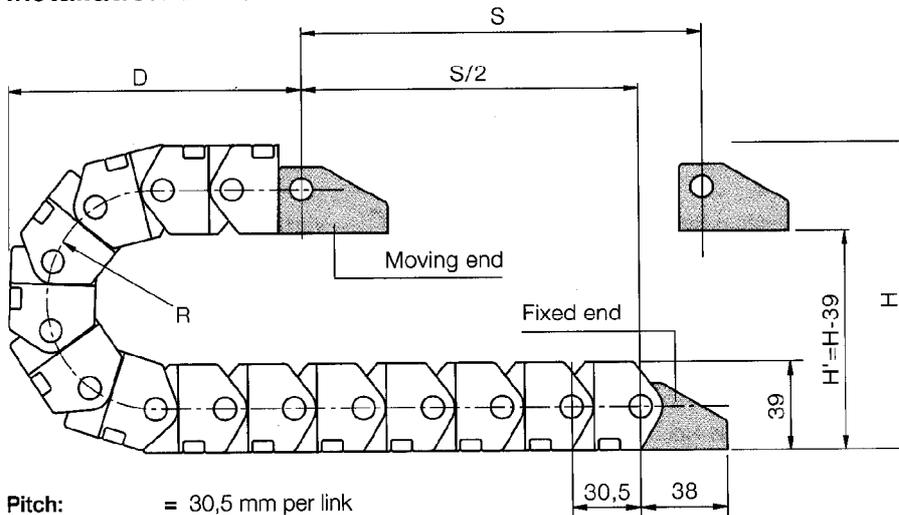
● Other colors  
▶ Design,  
Page 1.62

Part No.		Bi	Ba	Bending Radii for All Chain Widths
17.1.	Radius	15	25,5	063 075 100 125
17.2.	Radius	25	35,5	063 075 100 125
17.3.	Radius	38	48,5	063 075 100 125
17.4.	Radius	50	60,5	063 075 100 125
17.5.	Radius	63	76	063 075 100 125
17.6.	Radius	80	93	063 075 100 125
17.7.	Radius	100	113	063 075 100 125 048*

\*available upon request

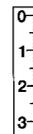
Supplement part no. with required radius  
for example 17.1.063.0

## Installation Dimensions



Pitch: = 30,5 mm per link  
Links per m: = 33  
Chain length: =  $\frac{S}{2} + K$

R	63	75	100	125
H'	165	189	239	289
D	115	130	155	180
K	275	305	395	475



\*The required clearance height is  $H_F = H + 25$  (with 1,5 kg/m fill weight)  
Please consult igus® if space is particularly restricted.

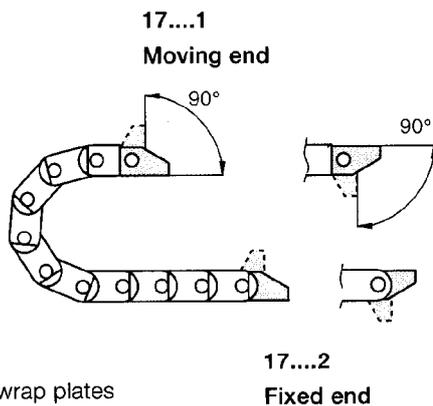
Series  
17 "Zipper"

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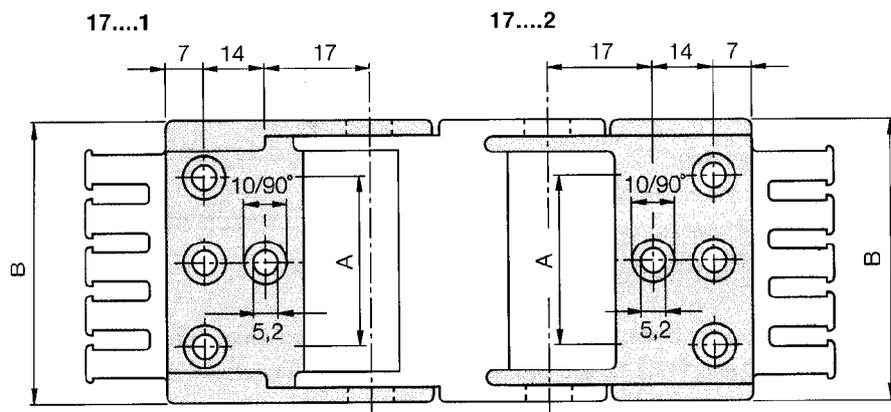
# Mounting Brackets: Series 17 "Zipper"

## Polymer, One-Piece

- Standard
- ⊕ One-piece mounting bracket
- ⊕ Corrosion-resistant
- ⊕ Available pre-assembled
- ⊕ Inner and outer attachment possible
- ⊕ Available with integrated strain relief tiwrap plates



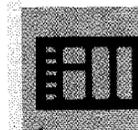
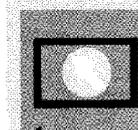
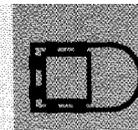
- Mounting bracket with or without strain relief tiwrap plates



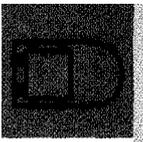
117.1.12P(Z): Center bores only  
 117.2.12P(Z) - 117.7.12P(Z): Outer bores only

Chain Type	Part No. Full Set with Strain Relief Tiwrap Plates	Part No. Set Mounting Brackets	Number of Teeth	Dimension A in mm	Dimension B in mm
17.1.	117.1.12PZ	117.1.12P	2	0	25,5
17.2.	117.2.12PZ	117.2.12P	3	12	35,5
17.3.	117.3.12PZ	117.3.12P	4	25	48,5
17.4.	117.4.12PZ	117.4.12P	5	37	60,5
17.5.	117.5.12PZ	117.5.12P	6	48	76,0
17.6.	117.6.12PZ	117.6.12P	8	65	93,0
17.7.	117.7.12PZ	117.7.12P	10	85	113,0

17...12 = Full set, each part with pin / bore  
 17... 1 = Mounting bracket with bore  
 17... 2 = Mounting bracket with pin



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## Mounting Brackets: Series 06 "E2 micro"

2 options for all applications

### Option 1:

- Without strain relief tiewrap plates



### Option 2:

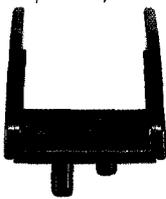
- With strain relief tiewrap plates



- **Quicksnap:** available from stock for 06.016, other widths upon request

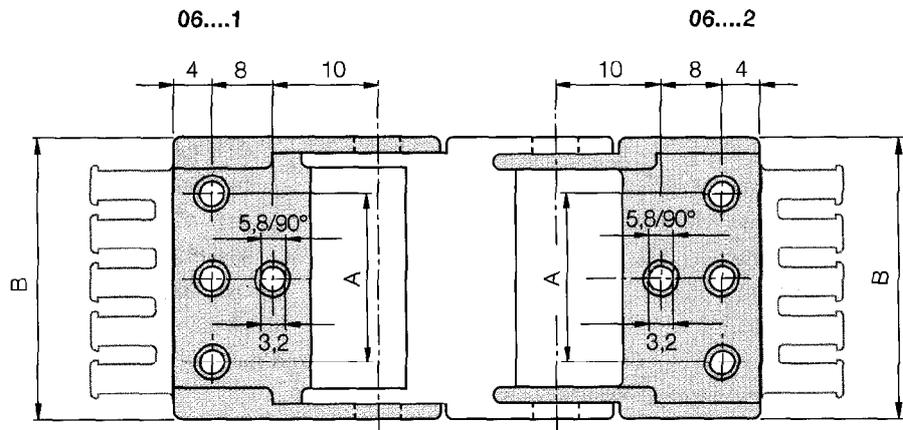
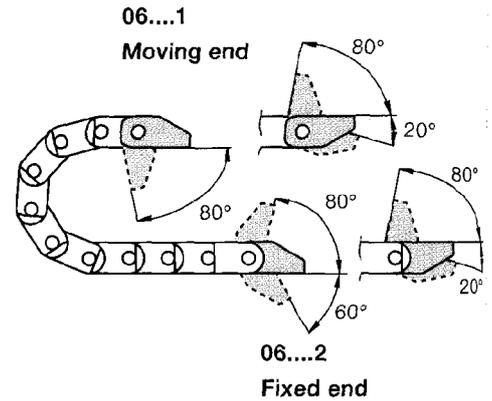


- **Quickfix:** with dowel for fast mounting, available from stock for 06.016, other widths upon request



### Polymer, One-Piece

- Standard
- One-piece mounting bracket
- Corrosion-resistant
- Available pre-assembled
- Inner and outer attachment possible
- Available with strain relief tiewrap plates



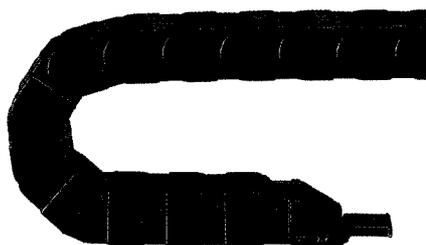
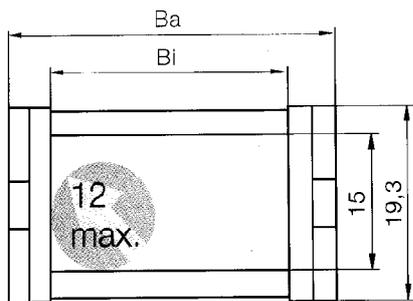
060.06.12 - 060.20.12: Center bores only  
 060.30.12 - 060.64.12: Outer bores only

Chain Type	Part No. Full Set, with Tiewrap Plate	Part No. Set Mounting Brackets	Number of Teeth	Dimension A in mm	Dimension B in mm
06.06	060.06.12 PZ	060.06.12	1	-	12,5
06.10	060.10.12 PZ	060.10.12	1	-	16,5
06.16	060.16.12 PZ	060.16.12	2	-	22,5
06.20	060.20.12 PZ	060.20.12	2	-	27,0
06.30	060.30.12 PZ	060.30.12	3	22	37,0
06.40	060.40.12 PZ	060.40.12	4	32	47,0
06.50	060.50.12 PZ	060.50.12	5	42	57,0
06.64	060.64.12 PZ	060.60.12	6	56	71,0

06...12 = Full set, each part with pin / bore  
 06... 1 = Mounting bracket with bore  
 06... 2 = Mounting bracket with pin

Internet: <http://www.igus.de>  
 email: [info@igus.de](mailto:info@igus.de)

# Product Range



## Order Example



08.20.038.0

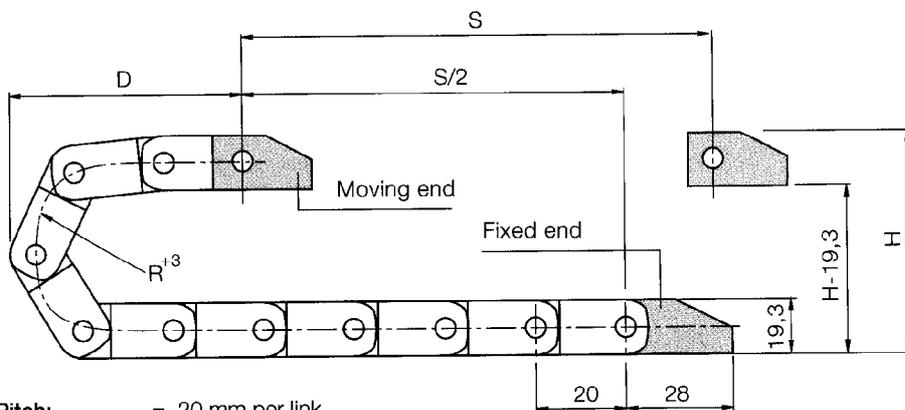
Standard color  
0 = Black

- Other colors
- ▶ Design, Page 1.62

Part No.		Bi	Ba	Bending Radii for All Chain Widths
08.10.	Radius	10	18,2	025 028 038 048
08.16.	Radius	16	24,2	028 038 048
08.20.	Radius	20	28,2	028 038 048
08.30.	Radius	30	38,2	028 038 048
08.40.	Radius	40	48,2	028 038 048
08.50.	Radius	50	58,2	028 038 048

Supplement part no. with required radius  
for example 08.20.038.0

## Installation Dimensions



Pitch: = 20 mm per link  
 Links per m: = 50  
 Chain length: =  $\frac{S}{2} + K$

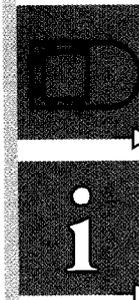
R	025**	028	038	048
H*	70	76	96	116
D	57	60	70	80
K	120	130	160	190



\*The required clearance height is HF = H + 15 (with 0,3 kg/m fill weight)  
 Please consult igus® if space is particularly restricted.  
 \*\* only Part No. 08.10

Series 08

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3 options for all applications

**Option: Polymer**

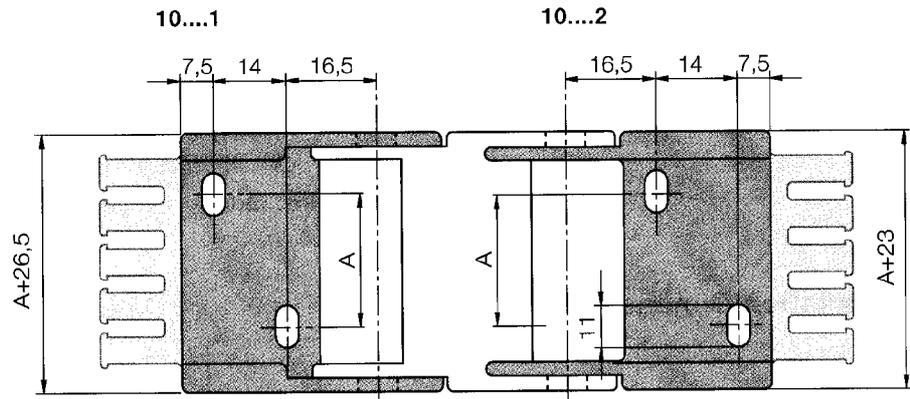
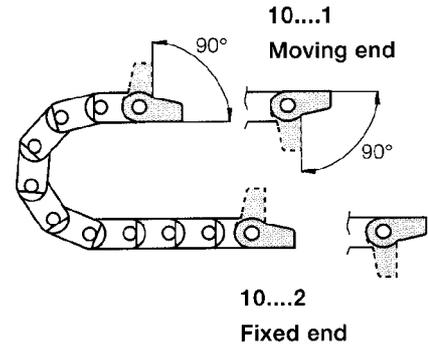
- Mounting bracket with or without strain relief tiwrap plates



## Mounting Brackets: Series 10 "E2 mini"

### Option 1: Polymer, One-Piece

- Standard
- ⊕ One-piece mounting bracket
- ⊕ Corrosion-resistant
- ⊕ Available pre-assembled
- ⊕ Inner and outer attachment possible
- ⊕ Flush mounting



101.12P(Z) - 104.12P(Z)

Chain Type	Part No. Full Set, with Tiewrap Plates	Part No. Full Set	Dimension A in mm
10.1	101.12PZ	101.12P	0
10.2	102.12PZ	102.12P	10
10.3	103.12PZ	103.12P	23
10.4	104.12PZ	104.12P	35

10... 12PZ = Full set, each part with pin / bore

10... 1PZ = Mounting bracket with bore

10... 2PZ = Mounting bracket with pin

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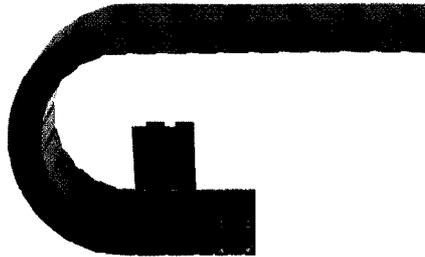
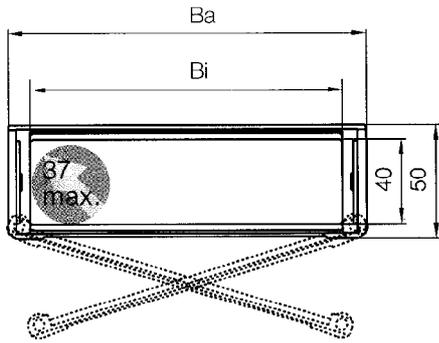
igus® GmbH  
51127 Cologne

Internet: <http://www.igus.de>  
email: [info@igus.de](mailto:info@igus.de)

Product Range: Series R157/R158



Series R157 - Energy Tube (hinged, open on both sides of the inner radius)



Part No.	Bi	Ba	Bending Radii
157.040* Radius	040	056	100 125 150 175
157.050 Radius	050	066	200 250
157.075 Radius	075	091	
157.088 Radius	088	104	
157.090** Radius	088	104	
157.100 Radius	100	116	
157.125 Radius	125	141	
157.135 Radius	135	150	
157.150 Radius	150	166	
157.175 Radius	175	191	
157.200 Radius	200	216	

These bending radii can be combined with every tube width!

Supplement part no. with required radius for example 157.100.100.0

Order Example



157.040.150.0

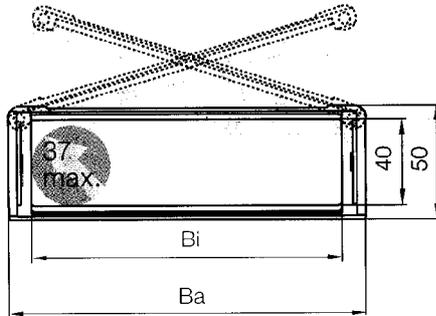
Standard color  
0 = Black

- Other colors
- Design, Page 1.62

\* Lid removable only, not hinged

\*\* Same dimensions as 157.088 - less recent design, no hinged option

Series R158 - Energy Tube (hinged, snap-open on both sides of the outer radius)



Part No.	Bi	Ba	Bending Radii
158.040* Radius	040	056	100 125 150 175
158.050 Radius	050	066	200 250
158.075*** Radius	075	091	
158.088 Radius	088	104	
158.090** Radius	088	104	
158.100 Radius	100	116	
158.125*** Radius	125	141	
158.135 Radius	135	150	
158.150 Radius	150	166	
158.175*** Radius	175	191	
158.200 Radius	200	216	

These bending radii can be combined with every tube width!

Supplement part no. with required radius for example 158.100.100.0

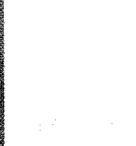
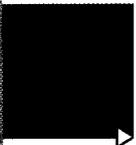
\* Lid removable only, not hinged

\*\* Same dimensions as 158.088 - less recent design, no hinged option

\*\*\* Delivery time available upon request

Series R157/R158

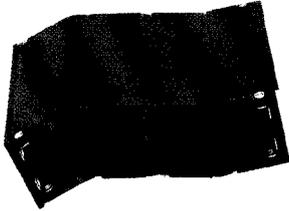
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upon request

## Option 3: polymer pivoting

- Abbreviated



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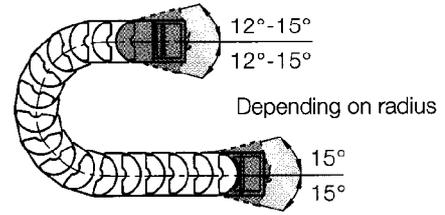
igus® GmbH  
 51127 Cologne

Internet: <http://www.igus.de>  
 email: [info@igus.de](mailto:info@igus.de)

## Option 3: Abbreviated, Pivoting 1580...1

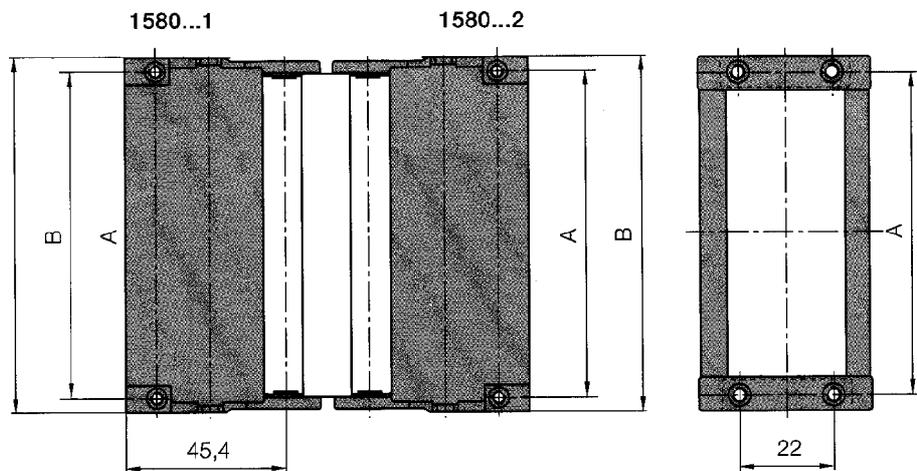
- ⊕ Abbreviated, pivoting
- ⊕ Universal use
- ⊕ Locked connection to Energy Tube
- ⊕ Long travels with lowered mounting height possible
- ⊕ Corrosion-resistant
- ⊖ Vertical hanging/standing, unsupported
- ⊖ Handling

Moving end



1580...2

Fixed end



Tube Type	Part No. Full Set	Dimension A in mm	Dimension B in mm
157/158.040	1580.040.12	50	61
157/158.050	1580.050.12	60	71
157/158.075	1580.075.12	85	96
157/158.088	1580.090.12	98	109
157/158.090	1580.090.12	100	111
157/158.100	1580.100.12	110	121
157/158.125	1580.125.12	135	146
157/158.135	1580.135.12	145	156
157/158.150	1580.150.12	160	171
157/158.175	1580.175.12	185	196
157/158.200	1580.200.12	210	221

1580...12 = Full set, each part with pin/bore

1580...1 = Mounting bracket with bore

1580...2 = Mounting bracket with pin

The following parts are required for attachment of the mounting brackets:

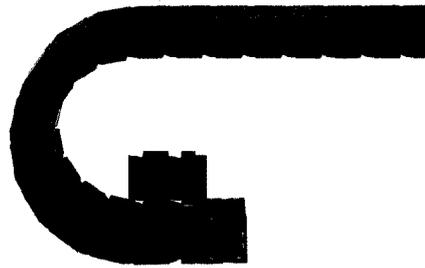
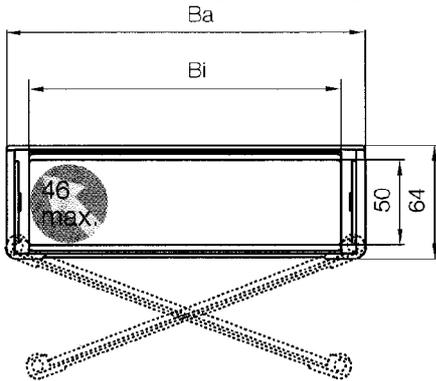
- Socket head cap bolt M5\* DIN 912-8.8      4/8 pieces/set
- Washer 5,3 DIN 125-ST                      8/16 pieces/set
- Hexagon nut M5 DIN 934-8                4/8 pieces/set

\* The length of the socket head cap bolt is dependent on the thickness of the attachment base.

Product Range: Series R167/R168



Series R167 - Energy Tube (hinged, snap-open on both sides of the inner radius)



Order Example



167.100.150.0

Standard color  
0 = Black

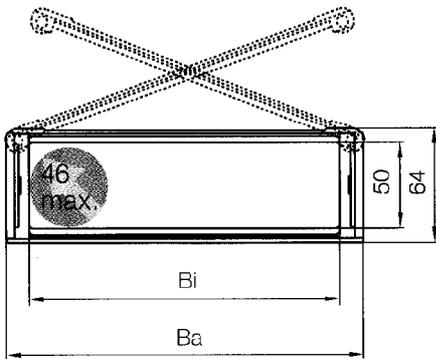
Other colors  
Design,  
Page 1.62

Part No.	Bi	Ba	Bending Radii
167.050 Radius	050	068	100 125 150 175 200
167.075 Radius	075	093	225 250 300
167.100 Radius	100	118	
167.115 Radius	115	133	
167.125 Radius	125	143	
167.150 Radius	150	168	
167.175 Radius	175	193	
167.200 Radius	200	218	
167.225 Radius	225	243	
167.250 Radius	250	268	

These bending radii can be combined with every tube width!

Supplement part no. with required radius for example 167.100.100.0

Series R168 - Energy Tube (hinged, snap-open on both sides of the outer radius)



Part No.	Bi	Ba	Bending Radii
168.050* Radius	050	068	100 125 150 175 200
168.075* Radius	075	093	225 250 300
168.100 Radius	100	118	
168.115* Radius	115	133	
168.125* Radius	125	143	
168.150 Radius	150	168	
168.175* Radius	175	193	
168.200 Radius	200	218	
168.225* Radius	225	243	
168.250* Radius	250	268	

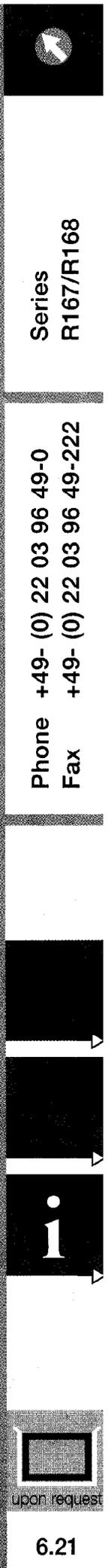
These bending radii can be combined with every tube width!

Supplement part no. with required radius for example 168.100.100.0

\* Delivery time available upon request

Series R167/R168

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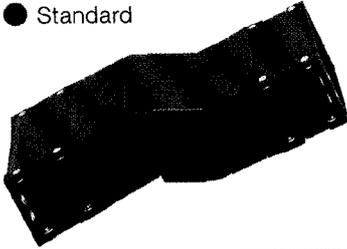


upon request

2 options for all applications

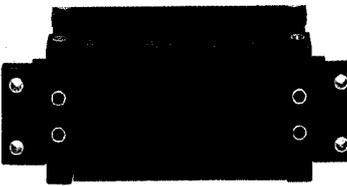
### Option 1: polymer pivoting

- Standard



### Option 2: polymer pivoting

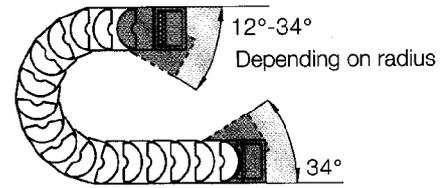
- Quickflange



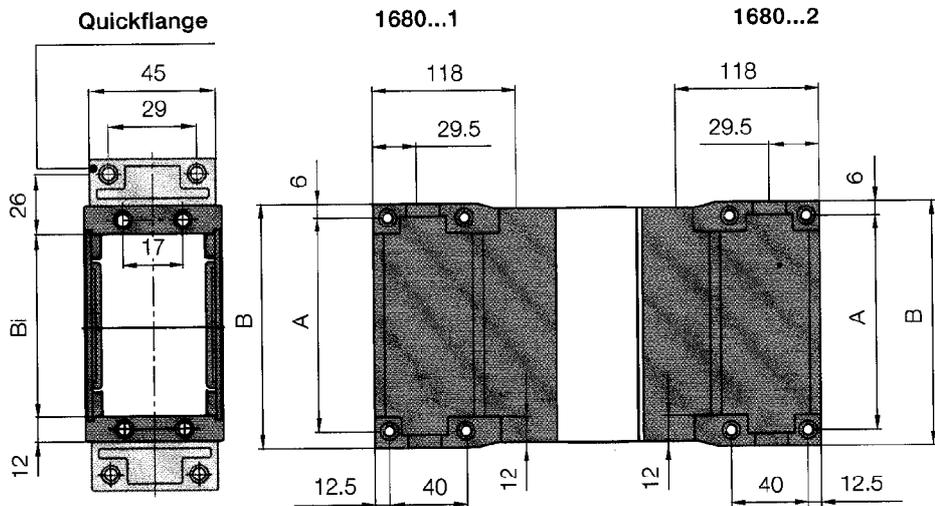
## Option 1: Pivoting

- ⊖ Standard
- ⊕ Pivoting
- ⊕ Universal use
- ⊕ Locked connection to Energy Tube
- ⊕ Long travels with lowered mounting height
- ⊕ Corrosion-resistant
- ⊖ Vertical hanging/standing, unsupported

1680...1  
Moving end



1680...2  
Fixed end



Part No.  
Quickflange  
● Unassembled  
16800.QF

Part No.	Tube Type	Part No.	Part No.	Dimension A in mm	Dimension B in mm
Quickflange		Full Set	Quickflange		
16800.QF	167/168.050	1680.050.12	1680.050.12QF	62	74
	167/168.075	1680.075.12	1680.075.12QF	87	99
	167/168.100	1680.100.12	1680.100.12QF	112	124
	167/168.115	1680.115.12	1680.115.12QF	127	139
	167/168.125	1680.125.12	1680.125.12QF	137	149
	167/168.150	1680.150.12	1680.150.12QF	162	174
	167/168.175	1680.175.12	1680.175.12QF	187	199
	167/168.200	1680.200.12	1680.200.12QF	212	224
	167/168.225	1680.225.12	1680.225.12QF	237	249
	167/168.250	1680.250.12	1680.250.12QF	262	274

1680...12 = Full set, each part with pin/bore

1680...1 = Mounting bracket with bore

1680...2 = Mounting bracket with pin

The following parts are required for attachment of the mounting brackets:

- Socket head cap bolt M5\* DIN 912-8.8      8 pieces/set
- Washer 5,3 DIN 125-ST      8 pieces/set
- Hexagon nut M5 DIN 934-8      8 pieces/set

\* The length of the socket head cap bolt is dependent on the thickness of the attachment base.