Energy Chain Systems®
E2 “mini”

E2 “mini”
- Series 10
- Series B15/B15i*
- Series B17*
  *Hinged along one side

Product Range
Inner heights from .71” to 1.26”
Inner widths from .59” to 3.94”

Interior Separation
Available for Series 10, B15/B15i, B17

Mounting Brackets
All mounting brackets available with or without integrated, strain relief tie-wrap plate

Order Example
Ordering and information
E2 “mini” Energy Chains®

Installation
A screwdriver suffices for assembly/disassembly of the chain links

Guide Troughs
All E2 “mini” Energy Chains® are suitable for gliding applications

For Classic E2 Mini Energy Chain®, Series 10, 11, 14, B15/B15i, please contact igus®. Classic sizes will continue to be available and supported.

- 2 parts per link, maximum
- Easy installation
- Many connection options
- Long service life
- High stability
Series 10 E2 “mini”

Product Range:

| Inner widths (B) inches (mm): | .59 (15), .98 (25), 1.50 (38), 1.97 |
| Bending Radii (R) inches (mm): | 1.10 (28), 1.50 (38), 1.89 (48), 2.95 (75), 3.94 (100), 4.92 (125), 5.71 (145), 7.09 (180) |
| Pitch: | 1.20 (30.5 mm)/link = 10.06 links/ft (33 links/m) |
| | 39.6 (1006.5 mm) |

Unsupported length

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

When to use the Series 10 E2 “mini”:

- If snap-open links are not necessary
- If connection options are required (Quicksnap, Quickfix, etc.)
- If small but very stable chain is required

When not to use the Series 10 E2 “mini”:

- If snap-open links are necessary
- Series 15 “Zipper”, Chapter 3
- If quick insertion of cables with pre-assembled connectors is required
- Series E14 “E-Z Chain”, Chapter 2

Price Index

7 Widths
9 Bending Radii

Interior separation possible

Mounting bracket with an without strain relief tiewrap plates

Quickfix: mounting bracket with pin
Call for availability

Unsupported length

Call for availability

Click Here for Specs & CAD Files

4.26
Series 10 E2 “mini”

### Installation Dimensions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bi (mm)</th>
<th>Ba (mm)</th>
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<tbody>
<tr>
<td>10-015</td>
<td>0.59 (15)</td>
<td>1.02 (26)</td>
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<tr>
<td>10-025</td>
<td>0.98 (25)</td>
<td>1.42 (36)</td>
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<td>10-038</td>
<td>1.50 (38)</td>
<td>1.93 (49)</td>
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<td>10-050</td>
<td>1.97 (50)</td>
<td>2.40 (61)</td>
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<td>2.95 (76)</td>
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<td>3.15 (80)</td>
<td>3.70 (94)</td>
</tr>
<tr>
<td>10-7</td>
<td>3.94 (100)</td>
<td>4.45 (113)</td>
</tr>
</tbody>
</table>

Bending Radii for ALL Widths

- 1.10 (028)
- 1.50 (038)
- 1.89 (048)
- 2.95 (075)
- 3.94 (100)
- 4.33 (110)
- 4.92 (125)
- 5.71 (145)
- 7.09 (180)

Supplement part no. with required radius for example, 10-25-100-0

**Interior separation**

These separators are used when vertical subdivision is required.

**Vertical Separators**

- **Unassembled** | Part No. 101
- **Assembled** | Part No. 111

*The required clearance height is HF = H + .79 (20) with 1.01 lbs/ft (1.5 kg/m) fill weight. Please consult igus® if space is particularly restricted.*
Series 10 E2 “mini”

Mounting Brackets (2 options for all applications)

Option 1: pivoting

- Pivoting
- Short and long travel
- Confined installation conditions
- Corrosion-resistant

Chain Type | Part No. Full set with Tiewrap Plate | Part No. Mounting Bracket Set | Dimension A in. (mm) | Dimensions B in. (mm)
--- | --- | --- | --- | ---
10-015 | 1015-34PZ | 1015-34P | — | — | 1.00 (25.5)
10-025 | 1025-34PZ | 1025-34P | .39 (10) | 1.40 (35.5)
10-038 | 1038-34PZ | 1038-34P | .91 (23) | 1.91 (48.5)
10-050 | 1050-34PZ | 1050-34P | 1.38 (35) | 2.38 (60.5)
10-5 | 105-34PZ | 105-34P | 1.89 (48) | 2.95 (75.0)
10-6 | 106-34PZ | 106-34P | 2.56 (65) | 3.62 (92.0)
10-7 | 107-34PZ | 107-34P | 3.35 (85) | 4.41 (112.0)

10...3 Moving end
10...4 Fixed end

Option 2: locking

- Locked connections
- Vertical hanging/standing travels
- Extreme accelerations
- Corrosion-resistant

Chain Type | Part No. Full set with Tiewrap Plate | Part No. Mounting Bracket Set | Dimension A in. (mm) | Dimensions B in. (mm)
--- | --- | --- | --- | ---
10-015 | 1015-12PZ | 1015-12P | — | — | 1.00 (25.5)
10-25 | 1025-12PZ | 1025-12P | .39 (10) | 1.40 (35.5)
10-38 | 1038-12PZ | 1038-12P | .91 (23) | 1.91 (48.5)
10-50 | 1050-12PZ | 1050-12P | 1.38 (35) | 2.38 (60.5)
10-5 | 105-12PZ | 105-12P | 1.89 (48) | 2.95 (75.0)
10-6 | 106-12PZ | 106-12P | 2.56 (65) | 3.62 (92.0)
10-7 | 107-12PZ | 107-12P | 3.35 (85) | 4.41 (112.0)

10...1 Moving end
10...2 Fixed end
Order Example and Technical Data:
Series 10 E2 “mini”

Order example

1. Chain selection:
10-025-038-0

2. Mounting brackets:
1025-12PZ

3. Interior separation
2 separators unassembled (Part No. 101)
or,
assembled every other link (Part No. 111)
Alternative interior separation configuration according to design layout possible.

For 16.4 ft (5 m) chain, color black, with mounting brackets and two separators:
16.4 ft (5 m) 10-025-038-0 and 1025-12PZ and two separators 111 assembled every other link

165 links — 10.06 links/ft (33 links/m)

Technical data

<table>
<thead>
<tr>
<th>Chain Type</th>
<th>Weight Per Link (oz.)</th>
<th>Weight Per Link (g)</th>
<th>Weight (lbs/ft)</th>
<th>Weight (kg/m)</th>
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<tr>
<td>10-15</td>
<td>0.35 (≈ 10)</td>
<td>0.24 (≈ 0.35)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10-25</td>
<td>0.42 (≈ 12)</td>
<td>0.27 (≈ 0.40)</td>
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<td>10-38</td>
<td>0.49 (≈ 14)</td>
<td>0.31 (≈ 0.46)</td>
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<tr>
<td>10-50</td>
<td>0.56 (≈ 16)</td>
<td>0.35 (≈ 0.52)</td>
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<tr>
<td>10-5</td>
<td>0.67 (≈ 19)</td>
<td>0.42 (≈ 0.63)</td>
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<td></td>
</tr>
<tr>
<td>10-6</td>
<td>0.74 (≈ 21)</td>
<td>0.47 (≈ 0.70)</td>
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</tr>
<tr>
<td>10-7</td>
<td>1.02 (≈ 29)</td>
<td>0.51 (≈ 0.76)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Material
- igumid G

Permitted temperature
-40°/+266°F (-40°/+130°C)

Gilding speed max.
16.4 ft/s (5 m/s)

Unsupported V max.
32.8 ft/s (10 m/s)

Flammability class
VDE 0304 IIC UL94 HB

Details of material properties
Design, Chapter 1
Series B15/B15i E2 “mini”

Product Range:
- **Inner Widths (Bi) inches (mm):** 0.59 (15), 0.98 (25), 1.50 (38), 1.97 (50), 2.48 (63), 3.15 (80), 3.94 (100)
- **Bending Radii (R) inches (mm):** 1.50 (38), 1.89 (48), 2.95 (75), 3.94 (100), 4.33 (110), 4.92 (125), 5.71 (145), 7.09 (180)
- **Pitch:** 1.20 (30.5 mm)/link = 10.06 links/ft (33 links/m)
- **Length of travel S in ft:** 39.3 (1000.5 mm)

**Unsupported length**
- **FL_B** = unsupported with permitted sag
- **FL_G** = unsupported with straight upper run

**When to use the Series B15/B15i “E2 mini”:**
- If snap-open accessibility is required
- If connection options are required (Quicksnap, Quickfix, etc.)
- If a small but very stable chain is required

**When not to use the Series B15/B15i “E2 mini”:**
- If snap-open accessibility is not required
- **Series 10, Chapter 4**
- If torsion occurs
  - **Series E14 “E-Z Chain”, Chapter 2**

**Price Index**
- 0
- 1.64
- 3.28
- 4.92
- 6.56
- 0.34
- 1.34
- 6.56
- 13.12

**unsupported length**

**Unsupported length in ft FL_B / FL_G**

**Length of travel S in ft**

---

**Quickfix: mounting bracket with pin**
Call for availability

**Interior separation possible**

**Mounting bracket with or without strain relief tiewrap plates**

**7 Widths**
8 Bending Radii
Series B15/B15i  E2 “mini”

Series B15
(snap-open along outer radius)

Series B15i
(snap-open along inner radius)

Installation Dimensions

Option 1: vertical separators
Vertical separators are used if only a vertical subdivision is required. A slotted separator is used for this subdivision. This separator can also be used with full-width shelves for a continuous horizontal subdivision.

Option 2: full-width shelf
Interior separation with continuous horizontal subdivision is practical is using a large number of thin cables with similar or identical diameters.

Bending Radii for ALL Widths

Part No. Bi Ba
B15-015 .59 (15) 1.02 (26)
B15-025 .98 (25) 1.42 (36)
B15-038 1.50 (38) 1.93 (49)
B15-050 1.97 (50) 2.40 (61)
B15-5 2.48 (63) 2.99 (76)
B15-6 3.15 (80) 3.70 (94)
B15-7 3.94 (100) 4.45 (113)

Supplement part no. with required radius for example, B15-025-100-0

Part No. Bi Ba
B15i-015 .59 (15) 1.02 (26)
B15i-025 .98 (25) 1.42 (36)
B15i-038 1.50 (38) 1.93 (49)
B15i-050 1.97 (50) 2.40 (61)
B15i-5 2.48 (63) 2.99 (76)
B15i-6 3.15 (80) 3.70 (94)
B15i-7 3.94 (100) 4.45 (113)

Supplement part no. with required radius for example, B15i-025-100-0

Pitch: = 1.20 (30.5 mm) per link
Links per ft (m): = 10.06 (33)
Chain length: = \( \frac{S}{2} + K \)

*The required clearance height is HF = H + .79 (20) with 1.01 lbs/ft (1.5 kg/m) fill weight. Please consult igus® if space is particularly restricted.

Vertical Separator, Slotted
Unassembled Part No. 153
Assembled Part No. 154

Side Plate
Unassembled Part No. 155
Assembled Part No. 156

<table>
<thead>
<tr>
<th>Width X in. (mm)</th>
<th>Part No. Unassembled</th>
<th>Part No. Assembled</th>
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<tr>
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<td>110-15</td>
<td>111-15</td>
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<td>.98 (25)</td>
<td>110-25</td>
<td>111-25</td>
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<td>1.50 (38)</td>
<td>110-38</td>
<td>111-38</td>
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<td>1.97 (50)</td>
<td>110-50</td>
<td>111-50</td>
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<td>2.48 (63)</td>
<td>110-63</td>
<td>111-63</td>
</tr>
<tr>
<td>3.15 (80)</td>
<td>110-80</td>
<td>111-80</td>
</tr>
<tr>
<td>3.94 (100)</td>
<td>110-100</td>
<td>111-100</td>
</tr>
</tbody>
</table>
### Mounting Brackets (2 options for all applications)

**Option 1: pivoting**
- Pivoting
- Short and long travel
- Space-restricted conditions
- Corrosion-resistant

Options for all applications:
- Option 1: pivoting
- Option 2: locking

**Option 2: locking**
- Locked connections
- Short and long travels
- Extreme accelerations
- Corrosion-resistant

### QuickSpecs

**Series B15/B15i E2 “mini”**

**Chain Type** | **Part No. Full set with Tiewrap Plate** | **Part No. Mounting Bracket Set** | **Dimension A in. (mm)** | **Dimensions B in. (mm)**
--- | --- | --- | --- | ---
B15/B15i-015 | 1015-34PZ | 1015-34P | — | 1.00 (25.5)
B15/B15i-025 | 1025-34PZ | 1025-34P | .39 (10) | 1.40 (35.5)
B15/B15i-038 | 1038-34PZ | 1038-34P | .91 (23) | 1.91 (48.5)
B15/B15i-050 | 1050-34PZ | 1050-34P | 1.54 (39) | 2.38 (60.5)
B15/B15i-5 | 105-34PZ | 105-34P | 1.89 (48) | 2.95 (75.0)
B15/B15i-6 | 106-34PZ | 106-34P | 2.56 (65) | 3.62 (92.0)
B15/B15i-7 | 107-34PZ | 107-34P | 3.35 (85) | 4.41 (112.0)

**Chain Type** | **Part No. Full set with Tiewrap Plate** | **Part No. Mounting Bracket Set** | **Dimension A in. (mm)** | **Dimensions B in. (mm)**
--- | --- | --- | --- | ---
B15/B15i-015 | 1015-12PZ | 1015-12P | — | 1.00 (25.5)
B15/B15i-025 | 1025-12PZ | 1025-12P | .39 (10) | 1.40 (35.5)
B15/B15i-038 | 1038-12PZ | 1038-12P | .91 (23) | 1.91 (48.5)
B15/B15i-050 | 1050-12PZ | 1050-12P | 1.54 (39) | 2.38 (60.5)
B15/B15i-5 | 105-12PZ | 105-12P | 1.89 (48) | 2.95 (75.0)
B15/B15i-6 | 106-12PZ | 106-12P | 2.56 (65) | 3.62 (92.0)
B15/B15i-7 | 107-12PZ | 107-12P | 3.35 (85) | 4.41 (112.0)

**Dimensions**
- A: 1.00 in. (25.5 mm)
- B: 1.40 in. (35.5 mm)
- C: 2.38 in. (60.5 mm)
- D: 2.95 in. (75.0 mm)
- E: 4.41 in. (112.0 mm)

**QuickSpecs**
- B15/B15i-015
- B15/B15i-025
- B15/B15i-038
- B15/B15i-050
- B15/B15i-5
- B15/B15i-6
- B15/B15i-7

**Contact Information**
- Telephone: 1-800-521-2747
- Fax: 1-401-438-7270
- Internet: http://www.igus.com
- email: sales@igus.com

**Specifications & CAD Files**
- Click Here for Specs & CAD Files
Order Example and Technical Data:
Series B15/B15i E2 “mini”

Order example

1. Chain selection:
   B15-025-038-0
   - Color
   - Radius
   - Width
   - Chain type

2. Mounting brackets:
   1025-12PZ
   - Full set
   - Chain width

3. Interior separation:
   2 separators, unassembled, (Part No. 150),
   or assembled every other link (Part No. 151).
   Alternative interior separation configuration
   according to design layout possible.

For 16.4 ft (5 m) chain, color black, with mounting brackets and two separators:
16.4 ft (5 m) B15-025-038-0 and 1025-12PZ and two separators 154
assembled every other link
165 links — 10.06 links/ft (33 links/m)

Technical data

<table>
<thead>
<tr>
<th>Chain Type</th>
<th>Weight Per Link (oz.)</th>
<th>Weight (lbs/ft)</th>
<th>Weight (kg/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B15/B15i-015</td>
<td>0.35 (= 10)</td>
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<tr>
<td>B15/B15i-025</td>
<td>0.42 (= 12)</td>
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<tr>
<td>B15/B15i-038</td>
<td>0.49 (= 14)</td>
<td>0.31 (= 0.46)</td>
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<td>B15/B15i-050</td>
<td>0.56 (= 16)</td>
<td>0.35 (= 0.52)</td>
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<td>B15/B15i-5</td>
<td>0.67 (= 19)</td>
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<td>B15/B15i-6</td>
<td>0.74 (= 21)</td>
<td>0.47 (= 0.70)</td>
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<tr>
<td>B15/B15i-7</td>
<td>1.02 (= 29)</td>
<td>0.51 (= 0.76)</td>
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</tr>
</tbody>
</table>

Material: igumid G
Permitted temperature: -40°/+266°F (-40°/+130°C)
Gilding speed max.: 16.4 ft/s (5 m/s)
Unsupported V max.: 32.8 ft/s (10 m/s)
Flammability class: VDE 0304 IIC UL94 HB

Details of material properties
Design, Chapter 1
**Series B17 E2 “mini”**

**Product Range:**

- **Inner Widths (Bi) inches (mm):** .59 (15), .98 (25), 1.50 (38), 1.97 (50), 2.48 (63), 3.15 (80), 3.94 (100)
- **Bending Radii (R) inches (mm):** 1.89 (48), 2.48 (63), 2.95 (75), 3.94 (100), 4.92 (125)
- **Pitch:** 1.20 (30.5 mm)/link = 10.06 links/ft (33 links/m)

**Unsupported length**

- FLB = unsupported with permitted sag
- FLG = unsupported with straight upper run

**Price Index**

![Price Index Chart]

**When to use the Series B17:**

- If snap-open accessibility is required
- If a rather small chain with broad inner width is required
- If reverse bending radius is required

**When not to use the Series B17:**

- If quick cable/hose accessibility is required
  - Series 17 “Zipper”, Chapter 3
- If quick insertion of cables with pre-assembled connectors is required
  - Series E16 “E-Z Chain”, Chapter 2

**Additional Features:**

- 7 Widths
- 5 Bending Radii
- Interior separation possible
- Mounting bracket with or without strain relief tie-strap plates

**Specifications:**

- Minimum pitch for quiet operation
- Snap-open with film-hinge
- Unsupported length in ft FLB / FLG
- Length of travel S in ft

**Price Table:**

<table>
<thead>
<tr>
<th>Width (Bi)</th>
<th>FLB</th>
<th>FLG</th>
</tr>
</thead>
<tbody>
<tr>
<td>.59</td>
<td>1.26</td>
<td>.82</td>
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<td>.98</td>
<td>2.46</td>
<td>1.64</td>
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<td>1.50</td>
<td>4.10</td>
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<td>1.97</td>
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<td>2.48</td>
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<td>3.94</td>
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<td>3.15</td>
<td>8.20</td>
<td>4.92</td>
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<tr>
<td>3.94</td>
<td>9.84</td>
<td>5.88</td>
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**Price Index:**

- 0 FLG
- 4.92 FLG

**Unsupported length in ft:**

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<td>4.92</td>
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<tr>
<td>3.94</td>
<td>9.84</td>
<td>5.88</td>
</tr>
</tbody>
</table>

**Unsupported length in ft:**

- FLB = unsupported with permitted sag
- FLG = unsupported with straight upper run

Click Here for Specs & CAD Files

4.34
Series B17 E2 “mini”

Series B17 Energy Chain®
(snap-open along outer radius)

Installation Dimensions

Interior Separation

Option 1: vertical separators
Separators are used when vertical compartmentalization of the Energy Chain® is the only type of separation required. Spacers can be used on either side of each separator to maintain the distance between them. Spacers are necessary primarily with side-mounted chains.

Option 2: full-width shelf
Full-width shelves are used with applications involving numerous thin cables with similar or identical diameters. This shelf slides into place and spans the entire width of the chain.
Series B17 E2 “mini”

Mounting Brackets

Polymer, one-piece

- one-piece mounting bracket
- Corrosion resistant
- Available pre-assembled
- Inner and outer attachment possible
- Flush mounting
- With strain relief tiewrap plates

117-1-12PZ: Center bores only
117-2-12PZ — 117-7-12PZ: Outer bores only

<table>
<thead>
<tr>
<th>Chain Type</th>
<th>Part No. Set Full set with Tiewrap Plate</th>
<th>Part No. Number Mounting Bracket Set</th>
<th>Number of Teeth</th>
<th>Dimension A in. (mm)</th>
<th>Dimensions B in. (mm)</th>
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<tbody>
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<td>B17-1</td>
<td>117-1-12PZ</td>
<td>117-1-12P</td>
<td>2</td>
<td>—</td>
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<td>B17-2</td>
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<td>117-2-12P</td>
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<td>.47 (12)</td>
<td>1.40 (35,5)</td>
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<td>117-3-12P</td>
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<td>1.91 (48,5)</td>
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<td>2.38 (60,5)</td>
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<td>117-5-12PZ</td>
<td>117-5-12P</td>
<td>6</td>
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<td>2.99 (76,0)</td>
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<tr>
<td>B17-6</td>
<td>117-6-12PZ</td>
<td>117-6-12P</td>
<td>8</td>
<td>2.56 (65)</td>
<td>3.66 (93,0)</td>
</tr>
<tr>
<td>B17-7</td>
<td>117-7-12PZ</td>
<td>117-7-12P</td>
<td>10</td>
<td>3.35 (85)</td>
<td>4.45 (113,0)</td>
</tr>
</tbody>
</table>

117… 12 = Full set, each party with pin/bore
117… 1 = Mounting bracket with bore
117… 2 = Mounting bracket with pin

Click Here for Specs & CAD Files
Order Example and Technical Data:
Series B17 E2 “mini”

Order example

1. Chain selection:

B17-1-063-0

<table>
<thead>
<tr>
<th>Color</th>
<th>Radius</th>
<th>Width</th>
<th>Chain type</th>
</tr>
</thead>
</table>

2. Mounting brackets:

117-1-12PZ

| Full set | Chain width |

3. Interior separation:

2 separators unassembled (Part No. 171),
or assembled every other link (Part No. 172).
Alternative interior separation configuration according to design layout possible.

For 16.4 ft (5 m) chain, color black, with mounting brackets and two separators:
16.4 ft (5 m) B17-1-063-0 and 117-1-12PZ and two separators 172 assembled every other link

165 links — 10.06 links/ft (33 links/m)

Technical data

<table>
<thead>
<tr>
<th>Chain Type</th>
<th>Weight Per Link (oz.)</th>
<th>Weight (lbs/ft)</th>
<th>Weight (kg/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B17-1</td>
<td>0.56 (16)</td>
<td>0.35</td>
<td>(~ 0.52)</td>
</tr>
<tr>
<td>B17-2</td>
<td>0.63 (18)</td>
<td>0.40</td>
<td>(~ 0.59)</td>
</tr>
<tr>
<td>B17-3</td>
<td>0.67 (19)</td>
<td>0.44</td>
<td>(~ 0.65)</td>
</tr>
<tr>
<td>B17-4</td>
<td>0.74 (21)</td>
<td>0.47</td>
<td>(~ 0.70)</td>
</tr>
<tr>
<td>B17-5</td>
<td>0.88 (25)</td>
<td>0.56</td>
<td>(~ 0.83)</td>
</tr>
<tr>
<td>B17-6</td>
<td>0.98 (28)</td>
<td>0.62</td>
<td>(~ 0.92)</td>
</tr>
<tr>
<td>B17-7</td>
<td>1.12 (32)</td>
<td>0.71</td>
<td>(~ 1.06)</td>
</tr>
</tbody>
</table>

Material: igumid G
Permitted temperature: -40°/+266°F (-40°/+130°C)
Gliding speed max.: 16.4 ft/s (5 m/s)
Unsupported V max.: 32.8 ft/s (10 m/s)
Flammability class: VDE 0304 IIC UL94 HB

Details of material properties
Design, Chapter 1