

# Technical Data Sheet

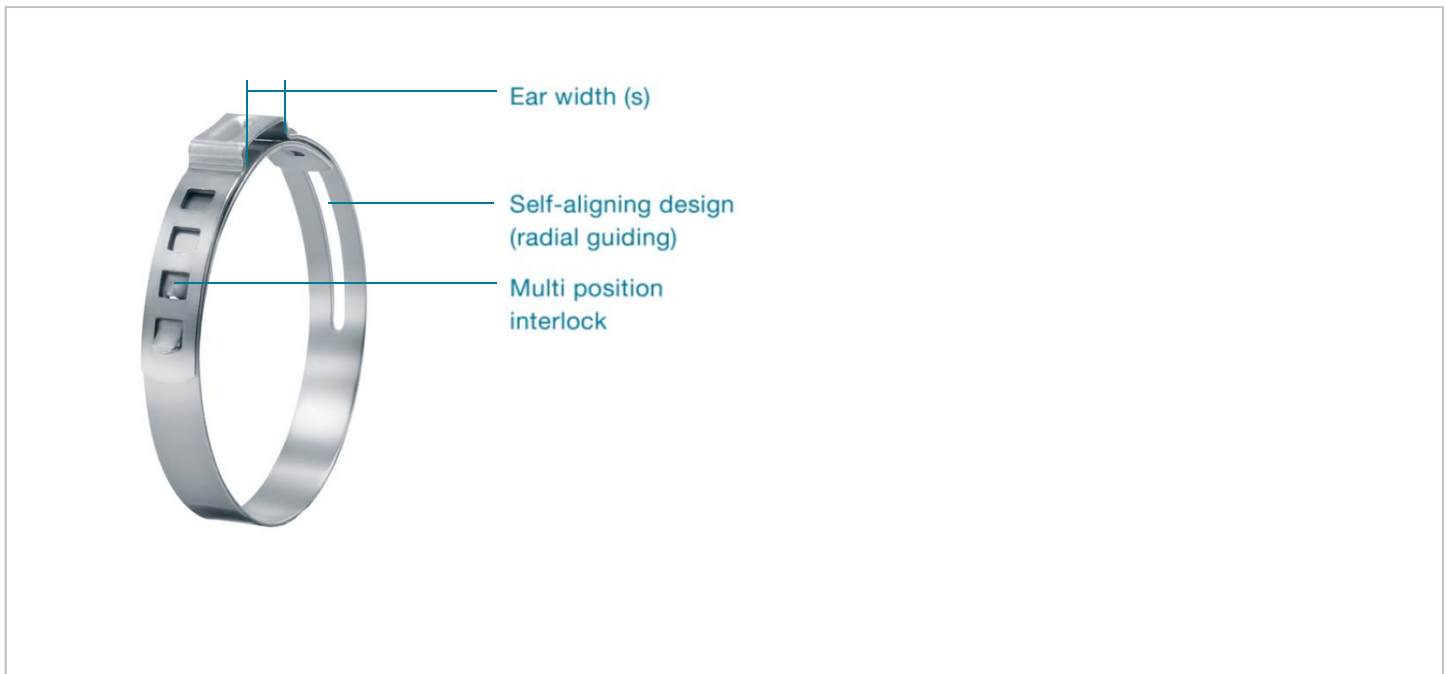
## Adjustable Clamps with radial guiding

### Product Group PG 113

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Connecting Technology



Choice of engagement positions: clamp can be adjusted to several nominal diameters

Material: [very cost effective](#)

Inner ring with radial guidance: [effective and powerful all-round sealing](#)

Clamp ear: [simple and fast installation, visible deformation provides evidence of proper closure](#)

Burr-free strip edges: [reduced risk of damage to parts being clamped](#)

Connecting technology: [ideal for soft materials](#)

## Adjustable Clamps with radial guiding

### Product Group 113

#### Material

PG 113 [High strength steel, material no. 1.0934](#)

[Coating: zinc plated](#)

Corrosion resistance according to DIN EN ISO 9227

PG 113 [≥ 96 hours](#)

Size range	width x thickness
30.0 – 116.0 mm	7.0 x 0.6 mm
72.0 – 132.0 mm	9.0 x 0.6 mm

[Some sizes are only available if an appropriate minimum quantity is ordered.](#)

#### Clamp ear (closing element)

Using tools designed by Oetiker, the clamp is closed by drawing together the lower radii of the “ear”. The maximum diameter reduction is proportional to the open “ear” width (s). The theoretical maximum reduction in diameter is given by the formula:

$$\text{Max. diameter reduction} = \frac{\text{Ear width (s)}}{\pi}$$

#### Multi-position interlock

The interlock consists of one load-retaining hook that withstands tensile loading during closure and a lock tab designed to hold the hooks in their windows prior to closure. With this design the interlock can be engaged in several positions within the published range. This feature allows a single part to cover a range of diameters.

#### Radial guiding (self-aligning design)

A tab formed on the inner portion of the clamp locates in a slot in the outer band surface. During assembly and closure, the tab slides in the slot and so avoids any step around the inner circumference of the clamp.

#### Assembly Recommendations

The clamp can be installed axially on the application prior to assembly or alternatively, radially around the assembled components. For either method, it is important that the hooks and lock tab are engaged in windows giving the smallest possible diameter, so that the maximum clearance between the assembled components and the inside diameter of the clamp before closure is no greater than 1.5 mm. Each incremental step of the interlock reduces the diameter before closure by 1.6 mm on the “3-step” series, and by 1.05 mm on the “6- step” design.

#### Closing force

The closing force must be chosen to give the required material compression or surface pressure and should be qualified by dimensional evaluation and experiment. The resistance against the clamp equals the applied force, so the closing force is greatly reduced when compressing a soft material. The table below gives the maximum applied closing force for clamp and material dimensions.

#### Important

Single tool stroke closure only, do not apply secondary crimping force.

## Installation data

Material dimension	Size range	Maximum closing force	Hand pincer	Installation tools force-monitored		
				Manual	Pneumatic	Cordless
7 x 0.6 mm	30.0 – 116.0 mm	1400 N	14100082	HMK 01 / S01	HO ME 2000	CP 01
9 x 0.6 mm	72.0 – 132.0 mm	2200 N	14100082	HMK 01 / S01	HO ME 3000	CP 01

For more details regarding hand pincers please see our catalogue on page 104.

Item No.	Ref. size*	Diameter range (mm)	Diameter range (inch)
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## 3 adjustment positions

Band width 7 mm, thickness 0.6 mm, Ear width 10 mm

11300020	30	23.6 – 30.0	0.929 – 1.181
11300000	32	25.6 – 32.0	1.008 – 1.260
11300001	35	28.6 – 35.0	1.126 – 1.378
11300002	37	30.6 – 37.0	1.205 – 1.457
11300003	40	33.6 – 40.0	1.323 – 1.575
11300004	45	38.6 – 45.0	1.520 – 1.772
11300021	50	43.6 – 50.0	1.717 – 1.969

## 6 adjustment positions

Band width 7 mm, thickness 0.6 mm, Ear width 10 mm

11300028	56	47.5 – 56.0	1.870 – 2.205
11300017	62	53.5 – 62.0	2.106 – 2.441
11300029	68	59.5 – 68.0	2.343 – 2.677
11300018	74	65.5 – 74.0	2.579 – 2.913
11300005	80	71.5 – 80.0	2.815 – 3.150
11300006	86	77.5 – 86.0	3.051 – 3.386
11300007	92	83.5 – 92.0	3.287 – 3.622
11300008	94	85.5 – 94.0	3.366 – 3.701
11300009	98	89.5 – 98.0	3.524 – 3.858
11300010	104	95.5 – 104.0	3.760 – 4.094
11300030	107	98.5 – 107.0	3.878 – 4.213
11300011	110	101.5 – 110.0	3.996 – 4.331
11300019	116	107.5 – 116.0	4.232 – 4.567

## 4 adjustment positions

Band width 9 mm, thickness 0.6 mm, Ear width 10 mm

11300022	72	64.0 – 72.0	2.520 – 2.835
11300023	78	70.0 – 78.0	2.756 – 3.071
11300024	84	76.0 – 84.0	2.992 – 3.307
11300012	90	82.0 – 90.0	3.228 – 3.543
11300013	96	88.0 – 96.0	3.465 – 3.780
11300014	102	94.0 – 102.0	3.701 – 4.016
11300015	108	100.0 – 108.0	3.937 – 4.252
11300016	114	106.0 – 114.0	4.173 – 4.488
11300025	120	112.0 – 120.0	4.409 – 4.724
11300026	126	118.0 – 126.0	4.645 – 4.961
11300027	132	124.0 – 132.0	4.882 – 5.197

\* Ref. size = Condition as supplied

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