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**SPECS &
INFORMATION**

Technical Data Sheet

1-Ear Clamps, Product Group 153/154



Connecting Technology



Compact one-piece clamp: for robust, secure connections, miniature sizes

Clamp ear: fast and simple installation, visible deformation provides evidence of proper closure

Deburred edges: reduced risk of damage to parts being clamped

With insert

Pre-shaped insert: effective and powerful all-round seal

1-Ear Clamps Product Group 153 & 154

Material

PG 153 Stainless Steel, Material no. 1.4307/UNS S30403

PG 154 Clamp: Stainless Steel, Material no. 1.4307/
UNS S30403

Insert: Stainless Steel, Material no. 1.4310/UNS S30100

Corrosion resistance according to DIN EN ISO 9227

PG 153 ≥ 800 h

PG 154 ≥ 800 h

Size range

PG 153 3.3 – 30.7 mm

PG 154 2.9 – 30.0 mm

Some sizes are only available if an appropriate minimum quantity is ordered.

Process

The manufacturing process for Oetiker 1-Ear and 2-Ear Clamps commences with the spiral roll-forming and welding of raw material into lengths of tube, a technique developed to obtain a robust, continuous welded ring.

Oetiker 1-Ear Clamps with insert

This type of clamp combines the geometry and properties of the 1-Ear Clamp with an insert made of stainless steel.

These clamps are ideal for demanding applications involving soft or hard rubbers and plastics. The thin-walled insert ring (up to 0.3 mm thick), with an oval protrusion that locates in the ear space, bridges the ear gap and ensures almost uniform compression around the whole circumference of a clamp.

Edge condition

Burrs generated during the shearing and forming processes are entirely eliminated in a barrel-finishing operation.

Clamp ear (closing element)

Using tools designed or endorsed 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.

The maximum reduction in diameter is given by the formula:

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

Important

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

Installation data

Size (mm)	Closing force max. (N)		Installation tools force-monitored ¹ :			
	galvanized	stainless	Manual	Pneumatic	Cordless	Electronically controlled
PG 153						
3.3 – 11.0	-	1400	HMK 01/S01	HO ME 2000	CP 01	HO EL 2000
11.3 – 20.7	-	2300	HMK 01/S01	HO ME 3000	CP 01	HO EL 3000
21.0 – 30.7	-	2800	-	HO ME 3000	CP 01	HO EL 3000
PG 154						
3.3 – 11.8	-	1500	HMK 01/S01	HO ME 2000	CP 01	HO EL 2000
12.0 – 20.7	-	2500	HMK 01	HO ME 3000	CP 01	HO EL 3000
21.0 – 30.7	-	3600	-	HO ME 4000	CP 01	HO EL 4000
PG 101 & 151						
4.1 – 20.0	2200	2500	HMK 01/S01	HO ME 3000	CP 01	HO EL 3000
22.0 – 46.0	3400	3600	-	HO ME 3000	CP 01	HO EL 4000

For an alternative option, see our manual pincers on page 104

¹ Further information on page 84

Important note

These figures are intended as a guide, they may vary depending on the type and tolerances of parts being clamped. To ensure optimum clamp selection, we recommend making functional tests with several assemblies.

Order information

Item No.	Ref. No.	Ear width inside (mm)	Size range (mm)	Item No.	Ref. No.	Ear width inside (mm)	Size range (mm)
1-Ear Clamps, stainless				1-Ear Clamps, stainless			
15300000	03.3R	1.4	2.9 – 3.3	15300021	13.3R	6.5	11.3 – 13.3
15300001	03.5R	1.4	3 – 3.5	15300022	13.8R	6.5	11.8 – 13.8
15300002	04.1R	2.5	3.3 – 4.1	15300023	14.0R	6.5	12 – 14
15300054	04.6R	3	3.8 – 4.6	15300024	14.5R	6.5	12.5 – 14.5
15300003	05.1R	3.2	4.1 – 5.1	15300025	15.0R	6.5	13 – 15
15300055	05.6R	3.2	4.6 – 5.6	15300026	15.5R	6.5	13.5 – 15.5
15300004	06.1R	3.2	5.1 – 6.1	15300027	16.0R	7	13.8 – 16
15300005	06.6R	3.2	5.6 – 6.6	15300028	16.5R	8	14 – 16.5
15300006	07.0R	3	6.1 – 7	15300029	16.8R	7	14.6 – 16.8
15300007	07.5R	3.5	6.5 – 7.5	15300030	17.5R	7	15.3 – 17.5
15300008	08.0R	4	6.8 – 8	15300031	18.5R	7	16.3 – 18.5
15300009	08.3R	4	7.1 – 8.3	15300032	19.5R	7.5	17.2 – 19.5
15300010	08.7R	4	7.5 – 8.7	15300033	20.0R	7.5	17.7 – 20
15300011	09.0R	5	7.5 – 9	15300034	20.7R	9	17.9 – 20.7
15300012	09.5R	5	8.1 – 9.5	15300035	21.0R	7.5	18.7 – 21
15300013	10.0R	5	8.5 – 10	15300036	21.8R	7.5	19.5 – 21.8
15300014	10.5R	5	9.1 – 10.5	15300037	22.5R	8.5	19.9 – 22.5
15300015	11.0R	5.5	9.3 – 11	15300038	23.5R	8.5	21 – 23.5
15300016	11.3R	5.5	9.6 – 11.3	15300040	24.5R	9	21.7 – 24.5
15300017	11.8R	5.5	10.1 – 11.8	15300041	25.5R	9	22.7 – 25.5
15300018	12.0R	6.5	10.1 – 12	15300043	26.3R	8.5	23.6 – 26.3
15300019	12.3R	6.5	10.3 – 12.3	15300044	27.0R	9.5	24.1 – 27
15300020	12.8R	6.5	10.8 – 12.8	15300045	30.7R	11	27.2 – 30.7



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