

Ear-Clamp 360

Product Group 101 and 151

An essential component for reliable connections

Key Features

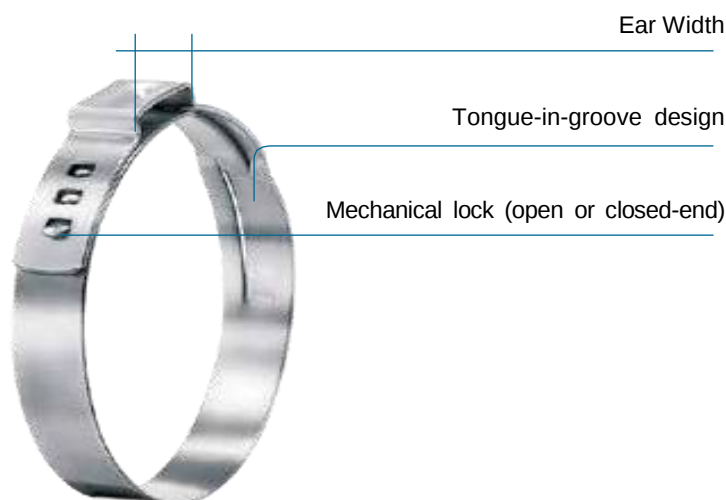
Unique clamping force
Quick and easy installation

Tolerance compensation
Wide range of band widths and thicknesses



Band:	Enables smooth force transmission.
360° clamping force:	Allows uniform force distribution.
Clamping ear:	Compensates for tolerances between connected parts and enables adaptable surface pressure.
Dimple:	Increases applied clamping force and compensates for diameter changes due to thermal expansion.
Burr-free band edges:	Prevents damage of connected components.

DETAILS



TECHNICAL INFORMATION

Material

PG 101 Zinc-coated steel band

PG 151 Stainless Steel, Material No. 1.4301 / UNS S30400

Other materials available upon request

Corrosion Resistance according to DIN EN ISO 9227

PG 101 Zinc coated ≥ 96 hours

PG 101 Galfan ≥ 144 hours

PG 151 ≥ 1000 hours

PG 101 Zinc coated

Clamping Range	Width x Thickness
8.5 – 25.0 mm	7.0 × 0.6 mm

Production is available upon request in alternative diameters, strip widths, and thicknesses.

PG 151 Stainless

Clamping range	Width x Thickness
6.5 – 12.0 mm	5.0 × 0.5 mm
12.3 – 120.0 mm	7.0 × 0.6 mm

Production is available upon request in alternative diameters, band widths and thicknesses

PG 151 Heavy-duty version

Clamping Range	Width x Thickness
25.5 – 120.0 mm	10.0 × 0.8 mm
55.0 – 120.0 mm	10.0 × 1.0 mm

Please contact our sales team for details about the heavy-duty series.

CLAMPING FORCE & ASSEMBLY INSTRUCTIONS

An ear clamp 360 is correctly mounted when at least 40% of the ear is deformed and it takes on an S-shape.

Important Notes

- The ear height is factory-set and must not be altered.
- Perform only a single clamping operation – no re-tightening!

CLAMPING FORCE DATA AND RECOMMENDED TOOLS/EQUIPMENT

Band-Width (mm)	Diameter Range (mm)	Max. Clamping Force (N)	Equipment	
			Manual	Pneumatic
PG 101				
7.0 x 0.6	8.7 – 51.5	1100	HME Manual Tool	HME 2000 – 4000
PG 151				
5.0 x 0.5	6.5–12.0	1000	HME Manual Tool	HME 2000 – 4000
5.0 x 0.6	15.0–100.0	1700	HME Manual Tool	HME 2000 – 4000
7.0 x 0.6	12.0 – 18.0	2100	HME Manual Tool	HME 2000 – 4000
7.0 x 0.6	18.5 – 100.0	2400	HME Manual Tool	HME 3000 – 4000
7.0 x 0.8	18.0–120.0	2800	–	HME 3000 – 4000
9.0 x 0.6	20.0–120.0	2800	–	HME 3000 – 4000
9.0 x 0.8	27.5–100.0	4100	HME Torque Wrench	HME 5000
10 x 0.6	20.0–120.0	2900	HME Torque Wrench	HME 3000
10 x 0.8	25.0 – 100.0	5000	HME Torque Wrench	HME 5000
10 x 1.0	55.0 – 100.0	7000	HME Torque Wrench	HME 7000
12 x 1.0	40.0 – 100.0	8500	HME Torque Wrench	HME 10000

For more information, please visit: www.mercan-industries.com

The clamping forces listed above are based on empirical data and represent the maximum clamping force. For information regarding the actual clamping force of the clamps used in your specific project, please consult the experts at Mercan Industries.

PRODUCT GROUP 101 zinc coated

Product-number **Reference-number** **Ear width (mm)** **Clamping range (mm)**

Band width 7 mm. Band thickness 0.6 mm (706)

10101101	08.5-706	5.5	6.7 – 8.5
10101102	09.0-706	5.5	7.2 – 9
10101103	09.5-706	5.5	7.7 – 9.5
10101104	010.0-706	5.5	8.5 – 10
10101105	010.5-706	5.5	8.7 – 10.5
10101106	011.0-706	5.5	9.2 – 11
10101107	011.5-706	5.5	9.7 – 11.5

Band width 7 mm. Band thickness 0.6 mm (706)

10101108	012.0-706	8	9.5 – 12
10101109	012.5-706	8	10.0 – 12.5
10101110	013.0-706	8	10.5 – 13
10101112	014.0-706	8	11.5 – 14
10101113	014.5-706	8	12.0 – 14.5
10101114	015.0-706	8	12.5 – 15
10101115	015.5-706	8	13.0 – 15.5
10101116	016.0-706	8	13.5 – 16
10101117	016.5-706	8	14.0 – 16.5
10101118	017.0-706	8	14.5 – 17
10101119	017.5-706	8	14.3 – 17.5

Band width 7 mm. Band thickness 0.6 mm (706)

10101120	018.0-706	10	14.8 – 18
10101121	018.5-706	10	15.3 – 18.5
10101122	019.0-706	10	15.8 – 19
10101123	019.5-706	10	16.3 – 19.5
10101124	020.0-706	10	16.8 – 20
10101125	020.5-706	10	17.3 – 20.5
10101126	021.0-706	10	17.8 – 21
10101127	021.5-706	10	18.3 – 21.5
10101128	022.0-706	10	18.8 – 22
10101129	022.5-706	10	19.3 – 22.5
10101130	023.0-706	10	19.8 – 23
10101131	023.5-706	10	20.3 – 23.5
10101132	024.0-706	10	20.8 – 24
10101133	024.0-706	10	21.3 – 24.5
10101134	025.0-706	10	21.8 – 25

PRODUCT GROUP 151 stainless

Product number **Reference-number** **Ear width (mm)** **Clamping range (mm)**

Band width 5 mm. Band thickness 0.5 mm (505 P)

15101101	006.5-505 P	4	5.2 – 6.5
15101102	007.0-505 P	4	5.7 – 7
15101103	008.0-505 P	4	6.7 – 8

Band width 5 mm. Band thickness 0.5 mm (505 P)

15101104	008.5-505 P	5.5	6.9 – 8.5
15101105	009.0-505 P	5.5	7.2 – 9
15101106	009.5-505 P	5.5	7.7 – 9.5
15101107	010.0-505 P	5.5	8.2 – 10
15101108	010.5-505 P	5.5	8.7 – 10.5
15101109	011.0-505 P	5.5	9.2 – 11
15101110	011.5-505 P	5.5	9.7 – 11.5

Band width 5 mm. Band thickness 0.5 mm (505 P)

15101111	012.0-706 P	8	9.5 – 12
15101112	012.5-706 P	8	10.0 – 12.5
15101113	013.0-706 P	8	10.5 – 13
15101114	013.5-706 P	8	11.0 – 13.5
15101115	014.0-706 P	8	11.5 – 14
15101116	014.5-706 P	8	12.0 – 14.5
15101117	015.0-706 P	8	12.5 – 15
15101118	015.5-706 P	8	13.0 – 15.5
15101119	016.0-706 P	8	13.5 – 16
15101120	016.5-706 P	8	14.0 – 16.5
15101121	017.0-706 P	8	14.5 – 17
15101122	017.5-706 P	8	15.0 – 17.5

Band width 5 mm. Band thickness 0.5 mm (505 P)

15101123	018.0-706 P	10	14.8 – 18
15101124	018.5-706 P	10	15.3 – 18.5
15101125	019.0-706 P	10	15.8 – 19
15101126	019.5-706 P	10	16.3 – 19.5
15101127	020.0-706 P	10	16.8 – 20
15101128	020.5-706 P	10	17.3 – 20.5

Band width 7 mm. Band thickness 0.6 mm (706P)

15101129	021.0-706 P	10	17.8 – 21
15101130	021.5-706 P	10	18.3 – 21.5
15101131	022.0-706 P	10	18.8 – 22
15101132	022.5-706 P	10	19.3 – 22.5
15101133	023.0-706 P	10	19.8 – 23

15101134	023.5-706 P	10	20.3 – 23.5
15101135	024.0-706 P	10	20.8 – 24
15101136	024.5-706 P	10	21.3 – 24.5
15101137	025.0-706 P	10	21.8 – 25
15101138	025.5-706 P	10	22.3 – 25.5
15101139	026.0-706 P	10	22.8 – 26
15101140	026.5-706 P	10	23.3 – 26.5
15101141	027.0-706 P	10	23.8 – 27
15101142	027.5-706 P	10	24.3 – 27.5
15101143	028.0-706 P	10	24.8 – 28
15101144	028.5-706 P	10	25.3 – 28.5
15101145	029.0-706 P	10	25.8 – 29
15101146	029.5-706 P	10	26.3 – 29.5
15101147	030.0-706 P	10	26.8 – 30
15101148	030.5-706 P	10	27.3 – 30.5
15101149	031.0-706 P	10	27.8 – 31
15101150	031.5-706 P	10	28.3 – 31.5
15101151	032.0-706 P	10	28.8 – 32
15101152	032.5-706 P	10	29.3 – 32.5
15101153	033.0-706 P	10	29.8 – 33
15101154	033.5-706 P	10	30.3 – 33.5
15101155	034.0-706 P	10	30.8 – 34
15101156	034.5-706 P	10	31.3 – 34.5
15101157	035.0-706 P	10	31.8 – 35
15101158	035.5-706 P	10	32.3 – 35.5
15101159	036.0-706 P	10	32.8 – 36
15101160	036.5-706 P	10	33.3 – 36.5
15101161	037.0-706 P	10	33.8 – 37
15101162	037.5-706 P	10	34.3 – 37.5
15101163	038.0-706 P	10	34.8 – 38
15101164	038.5-706 P	10	35.3 – 38.5
15101165	039.0-706 P	10	35.8 – 39
15101166	039.5-706 P	10	36.3 – 39.5
15101167	040.0-706 P	10	36.8 – 40
15101168	040.5-706 P	10	37.3 – 40.5
15101169	041.0-706 P	10	37.8 – 41
15101170	041.5-706 P	10	38.3 – 41.5
15101171	042.0-706 P	10	38.8 – 42
15101172	042.5-706 P	10	39.3 – 42.5
15101173	043.0-706 P	10	39.8 – 43
15101174	043.5-706 P	10	40.3 – 43.5
15101175	044.0-706 P	10	40.8 – 44
15101176	044.5-706 P	10	41.3 – 44.5
15101177	045.0-706 P	10	41.8 – 45

PRODUCT GROUP 151 stainless

Product-number	Reference-number	Ear width (mm)	Clamping range (mm)
----------------	------------------	----------------	---------------------

Band width 7 mm. Band thickness 0.6 mm (706P)

15101178	045.5-706 P	10	42.3 – 45.5
15101179	046.0-706 P	10	42.8 – 46
15101180	046.5-706 P	10	43.3 – 46.5
15101181	047.0-706 P	10	43.8 – 47
15101182	047.5-706 P	10	44.3 – 47.5
15101183	048.0-706 P	10	44.8 – 48
15101184	048.5-706 P	10	45.3 – 48.5
15101185	049.0-706 P	10	45.8 – 49
15101186	049.5-706 P	10	46.3 – 49.5
15101187	050.0-706 P	10	46.8 – 50
15101188	050.5-706 P	10	47.3 – 50.5
15101189	051.0-706 P	10	47.8 – 51
15101190	051.5-706 P	10	48.3 – 51.5
15101191	052.0-706 P	10	48.8 – 52
15101192	052.5-706 P	10	49.3 – 52.5
15101193	053.0-706 P	10	49.8 – 53
15101194	053.5-706 P	10	50.3 – 53.5
15101195	054.0-706 P	10	50.8 – 54
15101196	054.5-706 P	10	51.3 – 54.5
15101197	055.0-706 P	10	51.8 – 55
15101198	055.5-706 P	10	52.3 – 55.5
15101199	056.0-706 P	10	52.8 – 56
15101200	056.5-706 P	10	53.3 – 56.5
15101201	057.0-706 P	10	53.8 – 57
15101202	057.5-706 P	10	54.3 – 57.5
15101203	058.0-706 P	10	54.8 – 58
15101204	058.5-706 P	10	55.3 – 58.5
15101205	059.0-706 P	10	55.8 – 59
15101206	059.5-706 P	10	56.3 – 59.5
15101207	060.0-706 P	10	56.8 – 60
15101208	060.5-706 P	10	57.3 – 60.5
15101209	061.0-706 P	10	57.8 – 61
15101210	061.5-706 P	10	58.3 – 61.5
15101211	062.0-706 P	10	58.8 – 62
15101212	062.5-706 P	10	59.3 – 62.5
15101213	063.0-706 P	10	59.8 – 63
15101214	063.5-706 P	10	60.3 – 63.5
15101215	064.0-706 P	10	60.8 – 64
15101216	064.5-706 P	10	61.3 – 64.5
15101217	065.0-706 P	10	61.8 – 65
15101218	065.5-706 P	10	62.3 – 65.5

15101219	066.0-706 P	10	62.8 – 66
15101220	066.5-706 P	10	63.3 – 66.5
15101221	067.0-706 P	10	63.8 – 67
15101222	067.5-706 P	10	64.3 – 67.5
15101223	068.0-706 P	10	64.8 – 68
15101224	068.5-706 P	10	65.3 – 68.5
15101225	069.0-706 P	10	65.8 – 69
15101226	069.5-706 P	10	66.3 – 69.5
15101227	070.0-706 P	10	66.8 – 70
15101228	070.5-706 P	10	67.3 – 70.5
15101229	071.0-706 P	10	67.8 – 71
15101230	071.5-706 P	10	68.3 – 71.5
15101231	072.0-706 P	10	68.8 – 72
15101232	072.5-706 P	10	69.3 – 72.5
15101233	073.0-706 P	10	69.8 – 73
15101234	073.5-706 P	10	70.3 – 73.5
15101235	074.0-706 P	10	70.8 – 74
15101236	074.5-706 P	10	71.3 – 74.5
15101237	075.0-706 P	10	71.8 – 75
15101238	075.5-706 P	10	72.3 – 75.5
15101239	076.0-706 P	10	72.8 – 76
15101240	076.5-706 P	10	73.3 – 76.5
15101241	077.0-706 P	10	73.8 – 77
15101242	077.5-706 P	10	74.3 – 77.5
15101243	078.0-706 P	10	74.8 – 78
15101244	078.5-706 P	10	75.3 – 78.5
15101245	079.0-706 P	10	75.8 – 79
15101246	079.5-706 P	10	76.3 – 79.5
15101247	080.0-706 P	10	76.8 – 80
15101248	080.5-706 P	10	77.3 – 80.5
15101249	081.0-706 P	10	77.8 – 81
15101250	081.5-706 P	10	78.3 – 81.5
15101251	082.0-706 P	10	78.8 – 82
15101252	082.5-706 P	10	79.3 – 82.5
15101253	083.0-706 P	10	79.8 – 83
15101254	083.5-706 P	10	80.3 – 83.5
15101255	084.0-706 P	10	80.8 – 84
15101256	084.5-706 P	10	81.3 – 84.5
15101257	085.0-706 P	10	81.8 – 85
15101258	085.5-706 P	10	82.3 – 85.5
15101259	086.0-706 P	10	82.8 – 86
15101260	086.5-706 P	10	83.3 – 86.5
15101261	087.0-706 P	10	83.8 – 87
15101262	087.5-707 P	10	84.3 – 87.5

PRODUCT GROUP 151 stainless

Product-number	Reference-number	Ear width (mm)	Clamping range (mm)
----------------	------------------	----------------	---------------------

Band width 7 mm. Band thickness 0.6 mm (706P)

15101263	088.0-706 P	10	84.8 – 88
15101264	088.5-706 P	10	85.3 – 88.5
15101265	089.0-706 P	10	85.8 – 89
15101266	089.5-706 P	10	86.3 – 89.5
15101267	090.0-706 P	10	86.8 – 90
15101268	090.5-706 P	10	87.3 – 90.5
15101269	091.0-706 P	10	87.8 – 91
15101270	091.5-706 P	10	88.3 – 91.5
15101271	092.0-706 P	10	88.8 – 92
15101272	092.5-706 P	10	89.3 – 92.5
15101273	093.0-706 P	10	89.8 – 93
15101274	093.5-706 P	10	90.3 – 93.5
15101275	094.0-706 P	10	90.8 – 94
15101276	094.5-706 P	10	91.3 – 94.5
15101277	095.0-706 P	10	91.8 – 95
15101278	095.5-706 P	10	92.3 – 95.5
15101279	096.0-706 P	10	92.8 – 96
15101280	096.5-706 P	10	93.3 – 96.5
15101281	097.0-706 P	10	93.8 – 97
15101282	097.5-706 P	10	94.3 – 97.5
15101283	098.0-706 P	10	94.8 – 98
15101284	098.5-706 P	10	95.3 – 98.5
15101285	099.0-706 P	10	95.8 – 99
15101286	099.5-706 P	10	96.3 – 99.5
15101287	100.0-706 P	10	96.8 – 100