



Toggle lock with intermediate position: fast and simple installation, high tightening torque

Visual overload protection: protects against excessive tightening

Hexagon socket screw SW5: fast and safe installation

Alternative with wing screw: tool integrated in the clamp

## Worm Drive Clamps Product Group 180

### Material

180 W4 Band and fastener: Stainless Steel,

Material no. 1.4301/UNS S30400

Screw: Stainless Steel, Material no. 1.4305/UNS S30300

### Series

Size range width x thickness

30.0 – 500.0 mm 12.2 x 0.9 mm

Special sizes up to 1000 mm diameter available on request.

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

### Screw Clamp design

#### Flap lock

After opening the body, the band can be formed by hand to approximately the clamping diameter. The flap can then be closed, and the clamp tightened by turning the screw. As a result, the screw only has to be turned for the last part of the clamping operation.

#### Intermediate stop

The flap is secured by an intermediate stop. Even when loosely installed, clamps cannot open on their own accord.

#### Visual overload protection

The housing incorporates a web which distorts visibly above a tightening torque of 4–5 Nm (35–44 in-lbs). This visual feature indicates that a Worm Drive Clamp is optimally tightened and still has an adequate factor of safety to the maximum tightening torque.

**Worm Drive Clamps with wing screw**

The Worm Drive Clamp with wing screw can be installed entirely without tools. The integral, torsionally-stiff wing provides optimum grip. The dimensions correspond to the standard design with the exception of the wing screw.

**Oetiker Universal Clamp Band**

The universal tension band is available in 8 or 12 mm band width, each on rolls with lengths of 10, 20, or 30 m, with a suitable lock for band widths of 8 or 12 mm.



Stainless steel universal tension band and lock.

**Assembly Recommendations**

For safe tightening of screw clamps without wing screws, we recommend use of a 5A/F hexagon wrench. The maximum static tightening torque is 6 Nm (53 in-lb).

**Installing an Universal Worm Drive Clamp**

Measure the circumference to be clamped and cut off the band to that length. Pass the end of the band, from above, through the slit in the closing element, and fold it back at least 40 mm below the band. Pass the second end of the band through the slit in the perforated part of the closing element and fold it back at least 40 mm. Lay the band around the part to be clamped, push the band end with perforation below the flap lock and close.



Tighten the clamp with a 5 A/F hexagon wrench. This system may not be entirely suitable for soft and flexible components.

**Order information****Item No.****Clamping range D (mm)****Screw Clamps**

Band width 12 mm, thickness 0.9 mm

18000206	30 – 60
18000205	50 – 80
18000206	80 – 110
18000207	110 – 140
18000208	140 – 170
18000209	170 – 200
18000300	200 – 230
18000301	230 – 260
18000302	260 – 290
18000303	290 – 320
18000304	320 – 350

**Screw Clamps with wing screw**

18000207	30 – 60
18000136	50 – 80
18000137	80 – 110
18000135	110 – 140
18000168	140 – 170
18000143	170 – 200
18000169	200 – 230
18000174	230 – 260
18000175	260 – 290
18000176	290 – 320
18000177	320 – 350

**Item No.****Clamping range D (mm)****Universal Clamp Band**

Band width 8 mm, thickness 0.5 mm

18000211	Closing element for stainless steel
18000213	Universal clamp band, roll 10 m
18000214	Universal clamp band, roll 20 m
18000215	Universal clamp band, roll 30 m

Band width 12 mm, thickness 0.5 mm

18000211	Closing element for stainless steel
18000216	Universal clamp band, roll 10 m
18000217	Universal clamp band, roll 20 m
18000218	Universal clamp band, roll 30 m

Worm Drive Clamps are available for a clamping range from 30 mm up to 1000 mm. Up to diameter 200 mm, Worm Drive Clamps are delivered pre-shaped, above diameter 200 mm they are supplied flat. Customer-specific sizes are available on request.



- Compact design: Minimal space requirement, miniature sizes
- Cylindrical screw head: fast, simple and safe installation
- Embossed band strip: reduced risk of damage to the part being clamped
- Alternative with wing screw: tool integrated in the clamp

## Worm Drive Clamps Mini Product Group 180

### Material type R PG 180

- W2 Band: Rust-resistant chromium steel,  
Material no. 1.4016/UNS S43000
- Screw and housing: Steel, zinc-plated, blue chromate finish

### Material type Mini R+S 180

- W4 Band and fastener: Stainless Steel,  
Material no. 1.4301/UNS S30400
- Screw: Stainless Steel,  
Material no. 1.4305/UNS S30300

### Series

Size range	width x thickness		
7.0 – 19.0 mm	5.0 x 0.4 mm	Type R <sup>1</sup>	
7.0 – 219.0 mm	5.0 x 0.4 mm	Type R+S <sup>2</sup>	

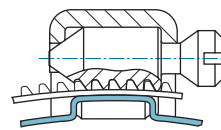
Some sizes are only available if an appropriate minimum quantity is ordered.

<sup>1</sup> R = stainless

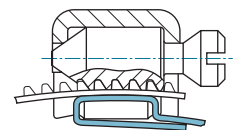
<sup>2</sup> R+S = stainless and acid-proof

### Clamp Design

#### Oetiker Mini R+S Worm Drive Clamps



Mini R+S  
Sizes 1–7 band overlapping



Mini R+S  
Above size 8, band reverse-bent

## Oetiker Mini R Worm Drive Clamps



Optionally, these clamps can be supplied open.

## Assembly Recommendations

For safe tightening of screw clamps without wing screws, we recommend to use a suitable standard screwdriver.

Maximum static tightening torques:

Mini R 70 Ncm (6 in-lb)

Mini R+S/wing screw 120 Ncm (10 in-lb)

## Order information

Item No.	Type	Clamping range D (mm)	Item No.	Type	Clamping range D (mm)
Worm Drive Clamp Mini R Band width 5 mm, thickness 0.4 mm			Worm Drive Clamps with wing screw Mini R+S Band width 5 mm, thickness 0.4 mm		
18000000	MINI R 1	6 – 11	18000183	MINI R+S F 1	7 – 11
18000001	MINI R 1.5	7 – 15	18000184	MINI R+S F 2	11 – 19
18000002	MINI R 2	11 – 19	18000185	MINI R+S F 3	18 – 29
18000248	MINI R 1 GZ	6 – 11	18000186	MINI R+S F 4	28 – 39
18000249	MINI R 2 GZ	9 – 19	18000187	MINI R+S F 5	38 – 49
18000252	MINI 1 S	6 – 11	18000188	MINI R+S F 6	48 – 59
18000254	MINI 2 S	11 – 19	18000189	MINI R+S F 7	58 – 69
18000255	MINI 1 GS	6 – 11	18000190	MINI R+S F 8	68 – 79
18000256	MINI 2 GS	9 – 19	18000191	MINI R+S F 9	78 – 89
GZ = rolled with cylindrical screw head S = open with hexagon-head screw GS = rolled with hexagon-head screw			18000192	MINI R+S F 10	88 – 99
Worm Drive Clamps with cylindrical screw head Mini R+S Band width 5 mm, thickness 0.4 mm			18000193	MINI R+S F 11	98 – 109
18000003	MINI R+S 1	7 – 11	18000194	MINI R+S F 12	108 – 119
18000004	MINI R+S 2	11 – 19	18000195	MINI R+S F 13	118 – 129
18000005	MINI R+S 3	18 – 29	18000196	MINI R+S F 14	128 – 139
18000006	MINI R+S 4	28 – 39	18000197	MINI R+S F 15	138 – 149
18000007	MINI R+S 5	38 – 49	18000198	MINI R+S F 16	148 – 159
18000008	MINI R+S 6	48 – 59	18000199	MINI R+S F 17	158 – 169
18000009	MINI R+S 7	58 – 69	18000200	MINI R+S F 18	168 – 179
18000010	MINI R+S 8	68 – 79	18000201	MINI R+S F 19	178 – 189
18000011	MINI R+S 9	78 – 89	18000202	MINI R+S F 20	188 – 199
18000012	MINI R+S 10	88 – 99	18000203	MINI R+S F 21	198 – 209
18000013	MINI R+S 11	98 – 109	18000204	MINI R+S F 22	208 – 219
18000014	MINI R+S 12	108 – 119			
18000015	MINI R+S 13	118 – 129			
18000016	MINI R+S 14	128 – 139			
18000017	MINI R+S 15	138 – 149			
18000018	MINI R+S 16	148 – 159			
18000019	MINI R+S 17	158 – 169			
18000020	MINI R+S 18	168 – 179			
18000021	MINI R+S 19	178 – 189			
18000022	MINI R+S 20	188 – 199			
18000023	MINI R+S 21	198 – 209			
18000024	MINI R+S 22	208 – 219			

Item No.	Installation tool
14100316	Flexible screwdriver 5/16"

## Recommended installation torque

Product Group	Torque (in-lb/Nm)
126	max. 30/max. 3.4
177	max. 35/max. 4.0

## Minimum ultimate torque

Product Group	Torque (in-lb/Nm)
126	min. 60/min. 6.9
177	min. 60/min. 6.9

## Order information

Item No.	SAE Size No.	Diameter range (in)	Diameter range (mm)	Item No.	SAE Size No.	Diameter range (in)	Diameter range (mm)
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## Worm Drive Clamps PG 126

Band width 1/2 in (12.7 mm), thickness 0.025 in (0.63 mm)

12600359	6	3/8 – 7/8	9 – 22
12600374	8	7/16 – 1	11 – 25
12600375	10	1/2 – 1 1/16	13 – 27
12600376	12	9/16 – 1 1/4	14 – 32
12600377	16	11/16 – 1 1/2	17 – 38
12600378	20	3/4 – 1 3/4	19 – 44
12600379	24	1 – 2	25 – 51
12600380	28	1 1/4 – 2 1/4	32 – 57
12600381	32	1 1/2 – 2 1/2	38 – 63
12600382	36	1 13/16 – 2 3/4	46 – 70
12600383	40	2 – 3	52 – 76
12600384	44	2 1/4 – 3 1/4	57 – 82
12600385	48	2 1/2 – 3 1/2	65 – 89
12600386	52	2 3/4 – 3 3/4	70 – 95
12600387	56	3 – 4	78 – 101
12600388	60	3 1/4 – 4 1/4	83 – 108
12600389	64	2 1/2 – 4 1/2	64 – 114
12600390	72	3 – 5	76 – 127
12600391	80	3 1/2 – 5 1/2	89 – 140
12600392	88	4 – 6	102 – 152
12600393	96	4 1/2 – 6 1/2	114 – 165
12600394	104	5 – 7	127 – 178

## Worm Drive Clamps PG 177

Band width 1/2 in (12.7 mm), thickness 0.025 in (0.63 mm)

17700338	6	3/8 – 7/8	9 – 22
17700339	8	7/16 – 1	11 – 25
17700340	10	1/2 – 1 1/16	13 – 27
17700341	12	9/16 – 1 1/4	14 – 32
17700342	16	11/16 – 1 1/2	17 – 38
17700343	20	3/4 – 1 3/4	19 – 44
17700344	24	1 – 2	25 – 51
17700345	28	1 1/4 – 2 1/4	32 – 57
17700346	32	1 1/2 – 2 1/2	38 – 63
17700347	36	1 13/16 – 2 3/4	46 – 70
17700348	40	2 – 3	52 – 76
17700349	44	2 1/4 – 3 1/4	57 – 82
17700350	48	2 1/2 – 3 1/2	65 – 89
17700351	52	2 3/4 – 3 3/4	70 – 95
17700352	56	3 – 4	78 – 101
17700353	60	3 1/4 – 4 1/4	83 – 108
17700354	64	2 1/2 – 4 1/2	64 – 114
17700355	72	3 – 5	76 – 127
17700356	80	3 1/2 – 5 1/2	89 – 140
17700357	88	4 – 6	102 – 152
17700358	96	4 1/2 – 6 1/2	114 – 165
17700359	104	5 – 7	127 – 178