

## M Series - Clamp - Miniature worm drive hose clamps



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Part number	Stretch area	
	inch	mm
M0200	0.25-0.62	6-16
M0300	0.30-0.87	8-22
M0400	0.66-1.25	16-32
M0500	0.66-1.50	16-8
M1100	2.50-3.50	64-90

For all clamping applications meeting normal environmental conditions.  
Hex head screw made of zinc plated carbon steel.

## MS Series - Worm drive hose clamps



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Part number	Stretch area	
	inch	mm
MS0200N	0.25-0.62	6-16
MS0300N	0.30-0.87	8-22
MS0400N	0.66-1.25	16-32
MS0500N	0.66-1.50	16-38
MS0600N	0.66-1.75	19-45
MS0700N	1.00-2.00	25-50
MS0800N	1.38-2.38	35-60
MS0900N	1.75-2.75	45-70
MS1000N	2.25-3.25	58-82
MS1100N	2.50-3.50	64-90
MS1200N	3.00-4.00	77-100

Preferred for those environmental conditions which require the extra protection provided by this 100% stainless steel hose clamp.  
Hex head screw of AISI 305 series stainless steel.

## S Series - Clamp - Standard



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Part number	Stretch area	
	inch	mm
S0600	0.38-0.87	10-22
S0800	0.44-1.00	11-25
S1000	0.50-1.12	13-28
S1040	5.00-7.00	129-178
S1200	0.50-1.25	13-32
S1600	0.75-1.50	19-40
S2000	0.75-1.75	19-44
S2400	1.00-2.00	26-50
S2800	1.32-2.25	34-57
S3200	1.57-2.50	40-64
S3600	0.88-2.75	23-70
S4000	1.13-3.00	29-76
S4400	1.32-3.25	34-82
S4800	1.63-3.50	42-90
S5200	1.88-3.75	48-95
S5600	2.13-4.00	54-100
S6400	2.63-4.50	67-114
S7200	3.13-5.00	80-130
S8000	3.63-5.50	92-140
S8800	4.25-6.00	108-150
S9600	4.75-6.50	121-165

Band and housing of stainless steel for all clamping applications, meeting normal environmental conditions.  
Hex head screw made of zinc plated carbon steel.

**SS - N Series - Clamp - All stainless**



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Part number	Stretch area	
	inch	mm
<b>SS0600N</b>	0.38-0.87	10-22
<b>SS0800N</b>	0.44-1.00	11-25
<b>SS1000N</b>	0.50-1.12	13-28
<b>SS1040N</b>	5.00-7.00	129-178
<b>SS1200N</b>	0.50-1.25	13-32
<b>SS1600N</b>	0.75-1.50	19-40
<b>SS2000N</b>	0.75-1.75	19-44
<b>SS2400N</b>	1.00-2.00	26-50
<b>SS2800N</b>	1.32-2.25	34-57
<b>SS3200N</b>	1.57-2.50	40-64
<b>SS3600N</b>	0.88-2.75	23-70
<b>SS4000N</b>	1.13-3.00	29-76
<b>SS4400N</b>	1.32-3.25	34-82
<b>SS4800N</b>	1.63-3.50	42-90
<b>SS5200N</b>	1.88-3.75	48-95
<b>SS5600N</b>	2.13-4.00	54-100
<b>SS6400N</b>	2.63-4.50	67-114
<b>SS7200N</b>	3.13-5.00	80-130
<b>SS8000N</b>	3.63-5.50	92-140
<b>SS8800N</b>	4.25-6.00	108-150
<b>SS9600N</b>	4.75-6.50	121-165

Preferred for those environmental conditions which require the extra protection provided by this 100% stainless steel hose clamp. Hex head screw of AISI 305 series stainless steel.



<b>Description:</b>	<ul style="list-style-type: none"> <li>• According to DIN 3015:             <ul style="list-style-type: none"> <li>- Both upper and lower clamp-halves are identical.</li> <li>- Webs inside the bore of the clamps provide an impact and vibration deadening effect, and absorb the forces towards the direction of the tube axis.</li> <li>- When using hoses and cables, we recommend the use of clamp valves with a smooth bore.</li> <li>- Screw tightening torque and axial pipe shearing forces.</li> <li>- The indicated screw tightening torque and axial pipe shearing forces refer to assembly with cover plates and outside hexagon bolts according to DIN 931/933.</li> <li>- The axial pipe shearing force (according to DIN 3015, part 10) is an average value, determined by three tests made with a steel pipe according to DIN 2448 of St. 37, for which static friction is assumed (temperature during tests: 23°C).</li> <li>- When loading the clamp with the indicated test force (F) in the axial pipe direction, the pipe must not slide in the clamp.</li> </ul> </li> </ul>
<b>Material:</b>	<ul style="list-style-type: none"> <li>• Polypropylene.</li> <li>• Polyamide.</li> <li>• Rubber.</li> <li>• Aluminium.</li> </ul>
<b>Temperature range:</b>	<ul style="list-style-type: none"> <li>• -30°C up to +90°C.</li> <li>• -40°C up to +120°C.</li> <li>• -50°C up to +120°C.</li> <li>• up to +300°C.</li> </ul>
<b>Colour:</b>	<ul style="list-style-type: none"> <li>• dark green.</li> <li>• black.</li> </ul>

All metal parts available also in stainless steel.  
Other materials upon request.  
Stainless steel qualities 1.4401/1.4571 (AISI 316/316 TI), resistant to rust and acid.

<b>Advantages:</b>	<ul style="list-style-type: none"> <li>• Suitable for system solutions.</li> </ul>
<b>Benefits:</b>	<ul style="list-style-type: none"> <li>• All products perfectly matched to one another.</li> </ul>

### Tube clamps



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Mechanical properties	DIN	Polypropylene (PP)	Polyamide 6 (PA6)	Aluminium	Rubber
Density		0.906 g/cm <sup>3</sup>	1.12-1.15 g/cm <sup>3</sup>	2.65 g/cm <sup>3</sup>	0.98 g/cm <sup>3</sup>
Flexural deflection	DIN 53452	36 N/mm <sup>2</sup>	130...200 N/mm <sup>2</sup>	70 N/mm <sup>2</sup>	-
Impact resistance	DIN 53453	no break	no break	-	-
Compressive strength	DIN 53454	90 N/mm <sup>2</sup>	120 N/mm <sup>2</sup>	HB 500...600 N/mm <sup>2</sup>	A + B: 64° Shore C: 73° Shore
Modulus of elasticity	DIN 53452	1500 N/mm <sup>2</sup>	3000 N/mm <sup>2</sup>	70.000 N/mm <sup>2</sup>	-
Tensile strength without breakage	DIN 53454	25-35 N/mm <sup>2</sup>	80-90 N/mm <sup>2</sup>	180 N/mm <sup>2</sup>	A + B: 6.1 N/mm <sup>2</sup> C: 8.5 N/mm <sup>2</sup>
Thermal properties		Polypropylene (PP)	Polyamide 6 (PA6)	Aluminium	Rubber
Temperature resistance		-30 to +90°C	-40 to +120°C	300°C	-50 to +120°C
Chemical properties		Polypropylene (PP)	Polyamide 6 (PA6)	Aluminium	Rubber
Weak acids		limited resistance	limited resistance	-	resistant
Weak alkalis		limited resistance	limited resistance	-	resistant
Alcohol		resistant	resistant	-	resistant
Petrol		limited resistance	resistant	-	limited resistance
Mineral oils		resistant	resistant	-	resistant
Other oils		resistant	resistant	-	resistant

**Tightening / Shearing Light Series (DIN 3015 - Part 1)**

Size	Fixing screw DIN 931/933	Polypropylene		Polyamide		Aluminium	
		Screw tightening	Pipe shearing	Screw tightening	Pipe shearing	Screw tightening	Pipe shearing
		Torque (Mn)	Force F (kN)	Torque (Mn)	Force F (kN)	Torque (Mn)	Force F(kN)
0	M6	8	0.6	10	0.6	-	-
1	M6	8	1.1	10	0.7	12	4.2
2	M6	8	1.2	10	0.8	12	4.3
3	M6	8	1.4	10	1.6	12	4.8
4	M6	8	1.5	10	1.7	12	5.0
5	M6	8	1.9	10	2.0	12	7.3
6	M6	8	2.0	10	2.5	12	8.9

**Tightening / Shearing Heavy Series (DIN 3015 - Part 2)**

Size	Fixing screw DIN 931/933	Polypropylene		Polyamide		Aluminium	
		Screw tightening	Pipe shearing	Screw tightening	Pipe shearing	Screw tightening	Pipe shearing
		Torque (Mn)	Force F (kN)	Torque (Mn)	Force F (kN)	Torque (Mn)	Force F(kN)
1	M10	12	1.6	10	0.6	-	-
2	M10	12	1.1	10	0.7	12	4.2
3	M10	15	1.2	10	0.8	12	4.3
4	M12	30	1.4	10	1.6	12	4.8
5	M16	45	1.5	10	1.7	12	5.0
6	M20	80	1.9	10	2.0	12	7.3
7	M24	110	2.0	10	2.5	12	8.9
8	M30	180					



Tube clamp series A (Light construction series) - Components - DIN 3015 - Part 1

Order code for clamp halves:

- Polypropylene = RAP ; Inside smooth = RAPG.
  - Polyamide 6 = RAN ; Inside smooth = RANG.
  - Rubber = RAVG.
  - Aluminium = RAA (Aluminium only sizes 1 to 6).
  - (Please exchange as required standard abbreviation RAP in part number).
- 1 part = 2 clamp halves.

**RAP - Tube clamp series A (Light construction series) - Components - DIN 3015 - Part 1**



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Part number	Tube Outside Diameter		Clamp size
	inch	mm	
RAP006X	-	6.0	0
RAP006.4X	1/4	6.4	0
RAP008X	5/16	8.0	0
RAP009.5X	3/8	9.5	0
RAP010X	-	10.0	0
RAP012X	-	12.0	0
RAP106X	-	6.0	1
RAP106.4X	1/4	6.4	1
RAP108X	5/16	8.0	1
RAP109.5X	3/8	9.5	1
RAP110X	-	10.0	1
RAP112X	-	12.0	1
RAP212.7X	1/2	12.7	2
RAP213.5X	-	13.5	2
RAP214X	-	14.0	2
RAP215X	-	15.0	2
RAP216X	5/8	16.0	2
RAP217.2X	-	17.2	2
RAP218X	-	18.0	2
RAP319X	3/4	19.0	3
RAP320X	-	20.0	3
RAP321.3X	-	21.3	3
RAP322X	-	22.0	3
RAP323X	-	23.0	3
RAP325X	1	25.0	3
RAP426.9X	-	26.9	4
RAP428X	-	28.0	4
RAP430X	-	30.0	4
RAP532X	1 1/4	32.0	5
RAP533.7X	-	33.7	5
RAP535X	-	35.0	5
RAP538X	1 1/2	38.0	5
RAP540X	-	40.0	5
RAP542X	-	42.0	5
RAP645X	-	45.0	6
RAP648X	-	48.0	6
RAP650X	-	50.0	6
RAP650.8X	2	50.8	6
RAP652X	-	52.0	6
RAP655X	-	55.0	6
RAP657X	2 1/4	57.0	6

When assembling solid rubber clamps, covering plates, hexagon screws and locking washers must be used.

**APLA - Weld/screw plate - Long**

Part number	Clamp size
APLA0X	0
APLA1X	1
APLA2X	2
APLA3X	3
APLA4X	4
APLA5X	5
APLA6X	6

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**APDA - Twin welding plate**

Part number	Clamp size
APDA1X	1
APDA2X	2
APDA3X	3

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**APRA - Multiple weld plate**

Part number	Clamp size
APRA0X (10 clamps)	0
APRA1X (10 clamps)	1
APRA2X (10 clamps)	2
APRA3X (10 clamps)	3

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**APWA - Weld plate - Angled**

Part number	Clamp size
APWA1X	1
APWA2X	2
APWA3X	3
APWA4X	4
APWA5X	5

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## DPA - Cover plate

Part number	Clamp size
DPA0X	0
DPA1X	1
DPA2X	2
DPA3X	3
DPA4X	4
DPA5X	5
DPA6X	6

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Metal parts also available in stainless steel.

## ASA - Stacking 1

Part number	Clamp size
ASA0X	0
ASA0X	1
ASA2X	2
ASA3X	3
ASA4X	4
ASA5X	5
ASA6X	6

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The use of stacking bolts necessitates the use of locking plates in the assembly design. When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used.

## TS...A/B - Mounting rail

Part number	Dimensions Thickness
TS11A/B1X	11
TS11A/B2X	11
TS14A/B1X	14
TS14A/B2X	14
TS30A/B1X	30
TS30A/B2X	30

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## TM...A/B1 - Rail nut

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Part number	Dimensions			
	a	b	c	m
TMA/TMB1VERZX	25.4	10.4	12	M6

## SLA - Slot head

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Part number	Dimensions
	Diameter x Length
SLA0X	M 6 x 20
SLA2X	M 6 x 25
SLA3X	M 6 x 30
SLA4X	M 6 x 35
SLA5X	M 6 x 50
SLA6X	M 6 x 60

## SSLA - Hexagon head

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Part number	Dimensions
	Diameter x Length
SSLA0X	M 6 x 30
SSLA2/SSB1X	M 6 x 35
SSLA3X	M 6 x 40
SSLA4X	M 6 x 45
SSLA5X	M 6 x 60
SSLA6X	M 6 x 70

## ISA - Socket head

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Part number	Dimensions
	Diameter x Length
ISA0X	M 6 x 20
ISA2X	M 6 x 25
ISA3X	M 6 x 30
ISA4X	M 6 x 35
ISA5X	M 6 x 50
ISA6X	M 6 x 60

## SBA - Locking plate 1

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Part number	Length	Hex
	mm	mm
SBAX	30	11

## USA - Locking washer 2

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Part number	Dimensions	
	a	b
USA/USB1X	9	18

