Product Dimensions, Standards and Weights **DIN 3017 Technical Specifications**

Metric DIN 3017 Hose Clamps Type A

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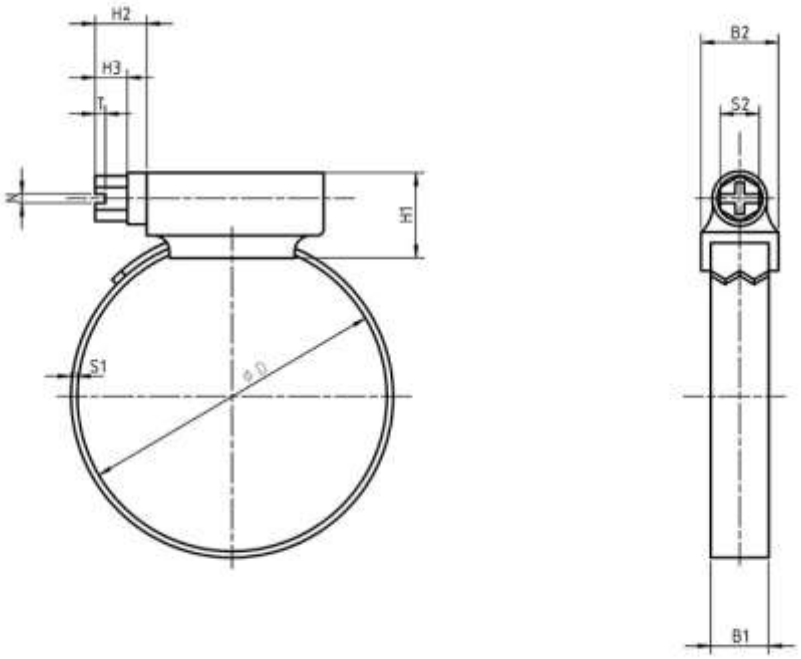

Dimensions of Metric DIN 3017 Hose Clamps Type A

D	B1 ±1	S1	B2 max	H1 max	H2 ±0.3	H3 min.	N +0.3-0.6	S2 H13	T ±0.3	tightening torque	breaking torque
8-12	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
10-16	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
12-20	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
16-25	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
20-32	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
25-40	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
40-60	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
50-70	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
60-80	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
70-90	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm

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D	B1 ±1	S1	B2 max	H1 max	H2 ±0.3	H3 min.	N +0.3-0.6	S2 H13	T ±0.3	tightening torque	breaking torque
80-100	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
90-110	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
100-120	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
110-130	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
120-140	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
130-150	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
140-160	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
150-170	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
160-180	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
170-190	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
180-200	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
190-210	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
200-220	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm
210-230	9	0.5-1	14	14	8	4	1.2	7	1.6	3.0Nm	4.0Nm

Metric DIN 3017 Hose Clamps Type A are multi-range hose clamps that uses a worm gear to generate an evenly distributed clamping force on the object on which it is tightened. The slotted drive of the screw driving the worm gear allows for easy tightening or loosening of the clamp. Aspen Fasteners offers one of the most complete ranges of metric hose clamps and other inch and metric industrial fasteners for immediate delivery from stock. The following sizes of metric DIN 3017 Hose Clamps Type A are available for immediate shipping from stock: Width of band ranging between 9 and 12mm, for hose diameters up to 160mm in A2 and marine grade A4 stainless steel. View parts by clicking on the following link: DIN 3017 Hose Clamps

DIN (**D**eutsches **I**nstitut für **N**ormung - German Institute for Standardization) standards are issued for a variety of components including industrial fasteners as Metric DIN 3017 Hose Clamps Type A. The DIN standards remain common in Germany, Europe and globally even though the transition to ISO standards is taking place. DIN standards continue to be used for parts which do not have ISO equivalents or for which there is no need for standardization.

1) Mechanical properties of stainless steel for metric DIN 3017 Hose Clamps Type A

Stainless steels can be divided into three groups of steel - austenitic, ferritic and martensitic. Austenitic steel is by far the most common type (>90% of commercial fasteners). The steel groups and strength classes are designated by a four-digit sequence of letters and numbers (eg A2-70) as shown in the following table. DIN EN ISO 3506 governs screws and nuts made from stainless steel.

Steel group	Steel grade	Strength class	Screws, Nuts and Bolts			
			Tensile strength N/mm^2	Tensile strength PSI	Dia range	Nut Load N/mm^2
Austenitic	A2 and A4	50	500	70,000	<=M39	500
		70	700	100,000	<=M20	700
		80	800	118,000	<=M20	800

The tensile stress is calculated with reference to the tensile stress area (see DIN EN ISO 3506-1979). Nuts to be paired with same grade of stainless steel screws

Steel group	Property Strength class	Made From	Characteristics
Austenitic	50	A1, A2	Soft; cold worked, turned and soft pressed fasteners
	70	A2, A4	Cold worked, normal strength formed fasteners
	80	A2, A4	Extreme cold worked, high strength, special applications

2) Chemical composition of stainless steel metric DIN 3017 Hose Clamps Type A

Grade	USA Grade	**Material designation**	**Material no.**	**C %**	**Si ≤ %**	**Mn ≤ %**	**Cr %**	**Mo %**	**Ni %**
A 2	**304**	X 5Cr Ni 1810	1.4301	≤ 0.07	1.0	2.0	17.5 to 19.5	-	8.0 to 10.5
		X 2 Cr Ni 1811	1.4306	≤ 0.03	1.0	2.0	18.0 to 20.0	-	10 to 12.0
		X 8 Cr Ni 19/10	1.4303	≤ 0.07	1.0	2.0	17.0 to 19.0	-	11.0 to 13.0
A 4	**316**	X 5 Cr Ni Mo 1712	1.4401	≤ 0.07	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.0 to 13.0
		X 2 Cr Ni Mo 1712	1.4404	≤ 0.03	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10 to 13

3) Chemical composition of steel metric DIN 3017 Hose Clamps Type A

PROPERTY CLASS	MATERIAL AND TREATMENT	CHEMICAL COMPOSITION LIMITS %				TEMPERING TEMP ºC MIN.
		C		P	S	
		min.	max.	max.	max.	
4.6, 4.8, 5.8, 6.8	Low or medium carbon steel	-	0.55	0.05	0.06	-
8.8	Medium carbon steel quenched, tempered	0.25	0.55	0.04	0.05	425
9.8	Medium carbon steel quenched, tempered	0.25	0.55	0.04	0.05	425
10.9	Medium carbon steel additives e.g. boron, Mn, Cr or Alloy steel - quenched, tempered	0.20	0.55	0.04	0.05	425
12.9	Alloy steel - quenched, tempered	0.20	0.50	0.035	0.035	380

4) Mechanical properties of steel for metric DIN 3017 Hose Clamps Type A

MECHANICAL PROPERTY			PROPERTY CLASS								
							8.8				
			4.8	5.6	5.8	6.8	Up to M 16	Over M 16	9.8	10.9	12.9
Tensile Strength (Rm, N/mm²)	nom.		400	500		600	800		900	1000	1200
	min.		420	500	520	600	800	830	900	1040	1220
Vickers Hardness	min.		130	155	160	190	250	255	290	320	385
	max		250				320	336	360	380	435
Brinell Hardness	min.		124	147	152	181	319	242	266	295	353
	max.		238				385	319	342	363	412
Rockwell Hardness	min.	HR	71	79	82	89	-				
		HRC	-	-	-	-	20	23	28	32	39
		HR	95			99	-				
	max.	HRC	-	-	-	-	32	34	37	39	44
Yield Stress ReL. N/mm²	nom.		320	300	400	480	-				
	min.		340	300	420	480	-				
Stress at permanent set limit N/mm²	nom.		-				640		720	900	1080
	min.		-				640	660	720	940	1100

Disclaimer

Dimensional data and technical information for Metric DIN 3017 Hose Clamps Type A was obtained from publicly available sources and not acquired through standards agencies. It has been completed and compiled for reference purposes only; where discrepancies are found they are subject to change without notice. Aspen Fasteners makes no warranties or representations regarding the accuracy and validity of the compiled information and data. Contact the relevant standards authorities for accurate and detailed information.