

Datasheet

RS Stock No: 304-4918

A4, 316 Stainless Steel, Hexagon Countersunk Socket Screws: Metric Thread



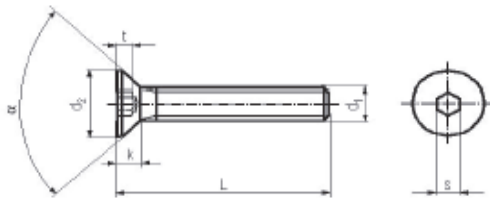
Countersunk socket screws are designed for light duty applications where there is limited space. These screws are widely used in many applications where a strong and reliable joint is required. Typically countersunk socket screws are used to fasten plates and strips of metal to equipment and machinery as their flat head allows a flush flat finish. This range of A4, 316 stainless steel countersunk socket screws with hexagon drive offer a good form of corrosion resistance and should be chosen over A2, 304 stainless steel when higher corrosion resistance is required.

- Threaded in accordance with Din 7991 standard
- A4, 316 Stainless Steel
- Used in applications where a wider head and lower profile is required
- Suitable for light fastening applications
- Typical applications include; Machine tooling, Security Guarding, Panel Building and General Fastening Applications
- Can be used in corrosive and chemical environments
- Suitable for the manufacture or repair of machinery and equipment within the food and beverage sector
- Requires a Hex key / Allen key

Please view our full range listing below for all A4, 316 Stainless Steel Hexagon Socket Countersunk Head Screws.

Head Shape	Material	Stainless Steel Type	Thread Size	Length	RS Part No.
Hex Socket Countersunk	Stainless Steel	A4, 316	M3	6 mm	3044788
Hex Socket Countersunk	Stainless Steel	A4, 316	M3	8 mm	3044918
Hex Socket Countersunk	Stainless Steel	A4, 316	M3	10 mm	2328366
Hex Socket Countersunk	Stainless Steel	A4, 316	M3	12 mm	2328372
Hex Socket Countersunk	Stainless Steel	A4, 316	M4	8 mm	3044902
Hex Socket Countersunk	Stainless Steel	A4, 316	M4	10 mm	2328388
Hex Socket Countersunk	Stainless Steel	A4, 316	M4	12 mm	2328394
Hex Socket Countersunk	Stainless Steel	A4, 316	M4	16 mm	2328401
Hex Socket Countersunk	Stainless Steel	A4, 316	M4	20 mm	3044895
Hex Socket Countersunk	Stainless Steel	A4, 316	M5	10 mm	3044889
Hex Socket Countersunk	Stainless Steel	A4, 316	M5	12 mm	2328417
Hex Socket Countersunk	Stainless Steel	A4, 316	M5	16 mm	2328423
Hex Socket Countersunk	Stainless Steel	A4, 316	M5	20 mm	2328439
Hex Socket Countersunk	Stainless Steel	A4, 316	M5	25 mm	2328445
Hex Socket Countersunk	Stainless Steel	A4, 316	M5	30 mm	3044873
Hex Socket Countersunk	Stainless Steel	A4, 316	M6	10 mm	3044867
Hex Socket Countersunk	Stainless Steel	A4, 316	M6	12 mm	2328451
Hex Socket Countersunk	Stainless Steel	A4, 316	M6	16 mm	2328467
Hex Socket Countersunk	Stainless Steel	A4, 316	M6	20 mm	2328489
Hex Socket Countersunk	Stainless Steel	A4, 316	M6	25 mm	2328495
Hex Socket Countersunk	Stainless Steel	A4, 316	M6	30 mm	2328502
Hex Socket Countersunk	Stainless Steel	A4, 316	M8	16 mm	3044851
Hex Socket Countersunk	Stainless Steel	A4, 316	M8	20 mm	3044845
Hex Socket Countersunk	Stainless Steel	A4, 316	M8	25 mm	3044839
Hex Socket Countersunk	Stainless Steel	A4, 316	M8	30 mm	3044823
Hex Socket Countersunk	Stainless Steel	A4, 316	M8	35 mm	1247257
Hex Socket Countersunk	Stainless Steel	A4, 316	M8	40 mm	3044801
Hex Socket Countersunk	Stainless Steel	A4, 316	M8	50 mm	3044794
Hex Socket Countersunk	Stainless Steel	A4, 316	M10	30 mm	1247258
Hex Socket Countersunk	Stainless Steel	A4, 316	M10	35 mm	1247259
Hex Socket Countersunk	Stainless Steel	A4, 316	M10	40 mm	1247260
Hex Socket Countersunk	Stainless Steel	A4, 316	M10	50 mm	1247261
Hex Socket Countersunk	Stainless Steel	A4, 316	M10	60 mm	1247262
Hex Socket Countersunk	Stainless Steel	A4, 316	M10	80 mm	1247263
Hex Socket Countersunk	Stainless Steel	A4, 316	M12	40 mm	1247264
Hex Socket Countersunk	Stainless Steel	A4, 316	M12	50 mm	1247265

FLAT HEAD SOCKET CAP SCREWS DIN 7991 / ISO 10642 / ANSI B18.3.5M



*******Notice*******
Lindstrom Metric, LLC will supply all Flat Head Socket Cap Screws With Full Thread, not according to below formulas.

Thread Size d1		(M2)	(M2.5)	M3	M4	M5	M6	M8	M10	M12	(M14)	M16	(M18)	M20	(M22)	M24
Thread Pitch		0.4	0.45	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3
Head Angle a		90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	60°	60°
DIN 7991 Thread Length Formula	For Lengths ≤125mm	10	11	12	14	16	18	22	26	30	34	38	42	46	50	54
	For Lengths >125mm≤200mm						24	28	32	36	40	44	48	52	56	60
	For Lengths >200 mm								45	49	53	57	61	65	69	73
ISO 10642 & ANSI B18.3.5M use a shank length / grip length formula to determine thread length. - Refer to full ISO or ANSI standard for more details.																
DIN 7991 Head Dia. d2	min.	3.7	4.7	5.7	7.64	9.64	11.57	15.57	19.48	23.48	26.48	29.48	32.38	35.38	35.38	38.38
	max. = nominal	4.0	5.0	6.0	8.00	10.00	12.00	16.00	20.00	24.00	27.00	30.00	33.00	36.00	36.00	39.00
ISO 10642 Head Dia. d2	min.			5.54	7.53	9.43	11.34	15.24	19.22	23.12	26.52	29.91		35.05		
	max. = theoretical			6.72	8.96	11.20	13.44	17.92	22.40	26.88	30.80	33.60		40.32		
ANSI B18.3.5M Head Dia. D2	min.			5.35	7.80	9.75	11.70	15.65	19.50	23.40	26.18	23.76		34.60		
	max. = theoretical			6.72	8.96	11.20	13.44	17.92	22.40	26.88	30.24	33.60		40.32		
ISO 10642 & ANSI B18.3.5M use a theoretical value for the max head diameter, which represents the exact diameter of a hole countersunk to exactly 90° in which a screw having the maximum head size will fit flush. - Refer to full ISO or ANSI standard for more details.																

DIN 7991 Head Height k	max.	1.2	1.5	1.7	2.3	2.8	3.3	4.4	5.5	6.5	7	7.5	8	8.5	13.1	14
ISO 10642 Head Height k	max. = reference			1.86	2.48	3.10	3.72	4.96	6.20	7.44	8.40	8.80		10.16		
ANSI B18.3.5M Head Height k	max. = reference			1.86	2.48	3.10	3.72	4.96	6.20	7.44	8.12	8.80		10.16		

ISO 10642 & ANSI B18.3.5M show Head Height k as a reference point only. - Refer to full ISO or ANSI standard for more details.																
For DIN 7991 / ISO 10642 / ANSI B18.3.5M, the overall length of the screw includes the head.																
DIN 7991 Key Size s	Nominal Size	1.3	1.5	2	2.5	3	4	5	6	8	10	10	12	12	14	14
	min.	1.275	1.545	2.02	2.52	3.02	4.02	5.02	6.02	8.025	10.025	10.025	12.032	12.032	14.032	14.032
	max.	1.300	1.520	2.10	2.60	3.10	4.12	5.14	6.14	8.175	10.175	10.175	12.212	12.212	14.212	14.212
ISO 10642 Key Size s	Nominal Size			2	2.5	3	4	5	6	8	10	10		12		
	min.			2.02	2.52	3.02	4.020	5.02	6.02	8.025	10.025	10.025		12.032		
	max.			2.06	2.58	3.08	4.095	5.14	6.14	8.175	10.175	10.175		12.212		
ANSI B18.3.5M Key Size s	Nominal Size			2	2.5	3	4	5	6	8	10	10		12		
	min.			2.020	2.52	3.020	4.020	5.020	6.020	8.025	10.025	10.025		12.032		
	max.			2.045	2.56	3.071	4.084	5.084	6.095	8.115	10.115	10.115		12.142		
DIN 7991 Key Engagement t	min.	0.75	0.8	0.950	1.55	2.05	2.25	3.2	4.1	4.3	4.5	5.0	5.2	5.6	8.44	9.87
ISO 10642 Key Engagement t	min.			1.100	1.50	1.90	2.20	3.0	3.6	4.3	4.5	4.8		5.6		
ANSI B18.3.5M Key Engagement t	min.			1.100	1.50	1.90	2.20	3.0	3.6	4.3	4.7	4.8		5.6		

Length Tolerance	DIN 7991 / ISO 10642		ANSI B18.3.5M		Length Tolerance	DIN 7991 / ISO 10642		ANSI B18.3.5M	
	min	max	min	max		min	max	min	max
Nominal Length					Nominal Length				
(4)	3.76	4.24	3.7	4.3	30	29.58	30.42	29.5	30.5
(5)	4.76	5.24	4.7	5.3	35	34.5	35.5	34.5	35.5
(6)	5.76	6.24	5.7	6.3	40	39.5	40.5	39.5	40.5
8	7.71	8.29	7.7	8.3	45	44.5	45.5	44.5	45.5
10	9.71	10.29	9.7	10.3	50	49.5	50.5	49.5	50.5
12	11.65	12.35	11.7	12.3	(55)	54.4	55.6	54.5	55.5
(14)	13.65	14.35	13.7	14.3	60	59.4	60.6	59.5	60.5
16	15.65	16.35	15.7	16.3	(65)	64.4	65.6	64.2	65.8
(18)	17.65	18.35	17.5	18.5	70	69.4	70.6	69.2	70.8
20	19.58	20.42	19.5	20.5	(75)	74.4	75.6	74.2	75.8
(22)	21.58	22.42	21.5	22.5	80	79.4	80.6	79.2	80.8
25	24.58	25.42	24.5	25.5	90	89.3	90.7	89.2	90.8
(26)	27.58	28.42	27.5	28.5	100	99.3	100.7	99.2	100.8

*******Notice*******
Diameters and or Lengths shown with () are not shown in some standards are not recommended for use in new design.

*******Notice*******
DIN 7991, ISO 10642, and ANSI B18.3.5M are not intended for high strength applications. The only purpose of having them produced in property class 10.9 or 12.9 is to increase the wear resistance of the socket drive.

	DIN 7991 / ISO 10642		ANSI B18.3.5M
Material	Steel	Stainless Steel	Steel
Property Class	10.9	A2 & A4	12.9
Finish	Furnace Black	Plain	Furnace Black
Thread Tolerance	6g	6g	4g6g