FEATURES

- Good corrosion resistance
- Also used in many internal joinery applications
- Requires a Hex key / Allen key
- Various thread sizes available

RS PRO M4 x 12mm Hex Socket Countersunk Screw Plain Stainless Steel

RS Stock No.: 171-821

RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

RS PRO hexagon socket countersunk screws are an excellent choice when you need a fastener to sit flush or below the surface of your material. These popular metric thread countersunk screws are manufactured from A2 (304) stainless steel and are designed for light duty applications where space is limited. These fasteners are used where a strong, reliable joint is required. These screws have an attractive, quality appearance and finish wherever they are used and give you exceptional resistance to corrosion.

General Specifications

Thread Size	M4
Head Shape	Hex Socket Countersunk
Material	Stainless Steel
Finish	Plain
Thread Type	Metric
Applications	Woodworking, Domestic applications, Fasteners and fixings, Machine tooling and repair, Security guarding, Panel Building

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Mechanical Specifications

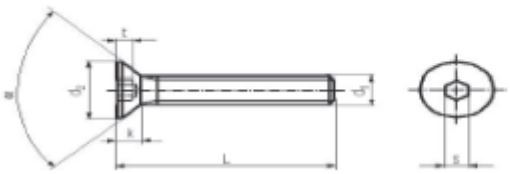
Length	12mm
Stainless Steel Type	304 A2
Thread Pitch	0.7mm
Head Diameter Range	7.64mm to 8.96mm
Head Height Range	2.3mm to 2.48mm
Key Size Nominal Range	2.5mm to 2.60mm
Key Engagement	1.55
Thread Tolerance	6g

Approvals

Compliance/Certifications	RoHS Certificate Of Compliance ,DIN7991 , ISO10642 , ANSI B18

Head Shape	Material	Thread Size	Length	RS Part No.
Countersunk Socket	Stainless Steel	M3	10 mm	171792
Countersunk Socket	Stainless Steel	M3	12 mm	171809
Countersunk Socket	Stainless Steel	M4	10 mm	171815
Countersunk Socket	Stainless Steel	M4	12 mm	171821
Countersunk Socket	Stainless Steel	M4	16 mm	171837
Countersunk Socket	Stainless Steel	M5	12 mm	171843
Countersunk Socket	Stainless Steel	M5	16 mm	171859
Countersunk Socket	Stainless Steel	M5	20 mm	171865
Countersunk Socket	Stainless Steel	M5	25 mm	171871
Countersunk Socket	Stainless Steel	M6	12 mm	171887
Countersunk Socket	Stainless Steel	M6	16 mm	171893
Countersunk Socket	Stainless Steel	M6	20 mm	171900
Countersunk Socket	Stainless Steel	M6	25 mm	171916
Countersunk Socket	Stainless Steel	M6	30 mm	171922

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	36.38	36.38	36.38
	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	29.01		36.05		
	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	
Nominal Length	min	max	min	max	Nominal Length	min	max	min	max
(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
(28)	27.58	28.42	27.5	28.5	100	99.3	100.7	99.2	100.8

	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

**********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.