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Datasheet

High Tensile Steel Black Self-Colour Hexagon Socket Cap Head Screws: Metric Thread



Socket caps have a small cylindrical head with tall vertical sides giving them space saving advantages as well as greater tensile strength and they require less side room for wrenches.

- 12.9 grade heat treated high tensile alloy steel
- Threaded in accordance with Din 912 standard
- 1200 MPa maximum tensile strength* compared to just 800 MPa for structural grade
 8.8 so can be used in high tensile applications
- 1100 yield strength** compared to 640-660 MPa depending on the size of the screw for structural grade 8.8
- 970 MPa proof load*** compared to just 580-600 depending on the size of the screw for structural grade 8.8
- Used for applications with limited space in high tensile applications
- Suitable for use in many industrial applications and similarly medical, construction, electronic & domestic applications
- Requires a Hex key / Allen key

^{*}Tensile Strength: The maximum load in tension (pulling apart) which a material can withstand before breaking or fracturing.

^{**}Yield Strength: The maximum load at which a material exhibits a specific permanent deformation.

^{***}Proof Load: An axial tensile load which the product must withstand without evidence of any permanent set.





Please view our full range listing below for all 12.9 Grade, Black Self-Colour High Tensile Steel Hexagon Socket Cap Screws

Hex Socket Cap Steel 12.9 M2 6 mm 293280 Hex Socket Cap Steel 12.9 M2 12 mm 293280 Hex Socket Cap Steel 12.9 M2 12 mm 293296 Hex Socket Cap Steel 12.9 M2.5 4 mm 293303 Hex Socket Cap Steel 12.9 M2.5 6 mm 281647 Hex Socket Cap Steel 12.9 M2.5 12 mm 281653 Hex Socket Cap Steel 12.9 M3.5 12 mm 281653 Hex Socket Cap Steel 12.9 M3 8 mm 4679789 Hex Socket Cap Steel 12.9 M3 10 mm 4679809 Hex Socket Cap Steel 12.9 M3 112 mm 4679802 Hex Socket Cap Steel 12.9 M3 15 mm 8229066 Hex Socket Cap Steel 12.9 M3 16 mm 4679802 Hex Socket Cap Steel 12.9 M3 16 mm 4679804 Hex Socket Cap Steel 12.9 M3 15 mm 8229063 Hex Socket Cap Steel 12.9 M3 20 mm 4679818 Hex Socket Cap Steel 12.9 M3 20 mm 4679824 Hex Socket Cap Steel 12.9 M3 35 mm 8229066 Hex Socket Cap Steel 12.9 M3 35 mm 8229066 Hex Socket Cap Steel 12.9 M3 35 mm 8229066 Hex Socket Cap Steel 12.9 M3 35 mm 8229066 Hex Socket Cap Steel 12.9 M4 6 mm 8229060 Hex Socket Cap Steel 12.9 M4 10 mm 4679874 Hex Socket Cap Steel 12.9 M4 10 mm 4679869 Hex Socket Cap Steel 12.9 M4 10 mm 4679869 Hex Socket Cap Steel 12.9 M4 10 mm 4679869 Hex Socket Cap Steel 12.9 M4 10 mm 4679869 Hex Socket Cap Steel 12.9 M4 10 mm 4679869 Hex Socket Cap Steel 12.9 M4 10 mm 4679869 Hex Socket Cap Steel 12.9 M4 10 mm 4679880 Hex Socket Cap Steel 12.9 M4 10 mm 4679980 Hex Socket Cap Steel 12.9 M4 20 mm 4679981 Hex Socket Cap Steel 12.9 M4 10 mm 4679980 Hex Socket Cap Steel 12.9 M4 20 mm 4679991 Hex Socket Cap Steel 12.9 M4 20 mm 4679981 Hex Socket Cap Steel 12.9 M4 20 mm 4679991 Hex Socket Cap Steel 12.9 M4 25 mm 4679991 Hex Socket Cap Steel 12.9 M4 25 mm 4679991 Hex Socket Cap Steel 12.9 M4 25 mm 4679991 Hex Socket Cap Steel 12.9 M5 10 mm 4679991 Hex Socket Cap Steel 12.9 M5 20 mm 4679991 Hex Socket Cap Steel 12.9 M5 30 mm 4679991 Hex Socket Cap Steel 12.9 M5 10 mm 4679991 Hex Socket Cap Steel 12.9 M5 10 mm 4679991 Hex Socket Cap Steel 12.9 M5 20 mm 4679991 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.	Head Shape	Material	Grade	Thread Size	Length	RS Part No.
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Hex Socket Cap Steel 12.9 M3 40 mm 8229060		Steel	12.9	M3		8229066
Hex Socket Cap Steel 12.9 M4 6 mm 8229079 Hex Socket Cap Steel 12.9 M4 8 mm 4679852 Hex Socket Cap Steel 12.9 M4 10 mm 4679874 Hex Socket Cap Steel 12.9 M4 12 mm 4679880 Hex Socket Cap Steel 12.9 M4 16 mm 4679896 Hex Socket Cap Steel 12.9 M4 20 mm 4679903 Hex Socket Cap Steel 12.9 M4 25 mm 4679919 Hex Socket Cap Steel 12.9 M4 30 mm 4679931 Hex Socket Cap Steel 12.9 M4 35 mm 8229072 Hex Socket Cap Steel 12.9 M4 40 mm 4679947 Hex Socket Cap Steel 12.9 M5 10 mm 4679953 Hex Socket Cap Steel 12.9 M5 12 mm 4679969 Hex Socket Cap Steel 12.9 M5 16 mm 4679975 Hex Socket Cap Steel 12.9 M5 20 mm 4679981 Hex Socket Cap Steel 12.9 M5 20 mm 4679997 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 30 mm 4680010 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 30 mm 4680032		Steel	12.9	M3	40 mm	8229060
Hex Socket Cap Steel 12.9 M4 8 mm 4679852 Hex Socket Cap Steel 12.9 M4 10 mm 4679874 Hex Socket Cap Steel 12.9 M4 12 mm 4679880 Hex Socket Cap Steel 12.9 M4 16 mm 4679896 Hex Socket Cap Steel 12.9 M4 20 mm 4679903 Hex Socket Cap Steel 12.9 M4 25 mm 4679919 Hex Socket Cap Steel 12.9 M4 30 mm 4679931 Hex Socket Cap Steel 12.9 M4 35 mm 8229072 Hex Socket Cap Steel 12.9 M4 40 mm 4679947 Hex Socket Cap Steel 12.9 M5 8 mm 8229085 Hex Socket Cap Steel 12.9 M5 10 mm 4679953 Hex Socket Cap Steel 12.9 M5 12 mm 4679969 Hex Socket Cap Steel	·					
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Hex Socket Cap Steel 12.9 M4 12 mm 4679880 Hex Socket Cap Steel 12.9 M4 16 mm 4679896 Hex Socket Cap Steel 12.9 M4 20 mm 4679903 Hex Socket Cap Steel 12.9 M4 25 mm 4679919 Hex Socket Cap Steel 12.9 M4 30 mm 4679931 Hex Socket Cap Steel 12.9 M4 35 mm 8229072 Hex Socket Cap Steel 12.9 M5 8 mm 8229085 Hex Socket Cap Steel 12.9 M5 10 mm 4679947 Hex Socket Cap Steel 12.9 M5 10 mm 4679947 Hex Socket Cap Steel 12.9 M5 10 mm 4679953 Hex Socket Cap Steel 12.9 M5 10 mm 4679969 Hex Socket Cap Steel 12.9 M5 20 mm 4679981 Hex Socket Cap Steel 1	Hex Socket Cap	Steel	12.9	M4	8 mm	4679852
Hex Socket Cap Steel 12.9 M4 16 mm 4679896 Hex Socket Cap Steel 12.9 M4 20 mm 4679903 Hex Socket Cap Steel 12.9 M4 25 mm 4679919 Hex Socket Cap Steel 12.9 M4 30 mm 4679931 Hex Socket Cap Steel 12.9 M4 35 mm 8229072 Hex Socket Cap Steel 12.9 M4 40 mm 4679947 Hex Socket Cap Steel 12.9 M5 10 mm 4679947 Hex Socket Cap Steel 12.9 M5 10 mm 4679947 Hex Socket Cap Steel 12.9 M5 10 mm 4679953 Hex Socket Cap Steel 12.9 M5 12 mm 4679969 Hex Socket Cap Steel 12.9 M5 20 mm 4679981 Hex Socket Cap Steel 12.9 M5 25 mm 4679997 Hex Socket Cap Steel	Hex Socket Cap	Steel	12.9	M4	10 mm	4679874
Hex Socket Cap Steel 12.9 M4 20 mm 4679903 Hex Socket Cap Steel 12.9 M4 25 mm 4679919 Hex Socket Cap Steel 12.9 M4 30 mm 4679931 Hex Socket Cap Steel 12.9 M4 35 mm 8229072 Hex Socket Cap Steel 12.9 M4 40 mm 4679947 Hex Socket Cap Steel 12.9 M5 10 mm 4679947 Hex Socket Cap Steel 12.9 M5 10 mm 4679953 Hex Socket Cap Steel 12.9 M5 12 mm 4679969 Hex Socket Cap Steel 12.9 M5 16 mm 4679975 Hex Socket Cap Steel 12.9 M5 20 mm 4679981 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel	Hex Socket Cap	Steel	12.9	M4	12 mm	4679880
Hex Socket Cap Steel 12.9 M4 25 mm 4679919 Hex Socket Cap Steel 12.9 M4 30 mm 4679931 Hex Socket Cap Steel 12.9 M4 35 mm 8229072 Hex Socket Cap Steel 12.9 M4 40 mm 4679947 Hex Socket Cap Steel 12.9 M5 10 mm 4679947 Hex Socket Cap Steel 12.9 M5 10 mm 4679953 Hex Socket Cap Steel 12.9 M5 12 mm 4679969 Hex Socket Cap Steel 12.9 M5 16 mm 4679975 Hex Socket Cap Steel 12.9 M5 20 mm 4679981 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel	Hex Socket Cap	Steel	12.9	M4	16 mm	4679896
Hex Socket Cap Steel 12.9 M4 30 mm 4679931 Hex Socket Cap Steel 12.9 M4 35 mm 8229072 Hex Socket Cap Steel 12.9 M5 8 mm 4679947 Hex Socket Cap Steel 12.9 M5 10 mm 4679947 Hex Socket Cap Steel 12.9 M5 10 mm 4679953 Hex Socket Cap Steel 12.9 M5 12 mm 4679969 Hex Socket Cap Steel 12.9 M5 16 mm 4679975 Hex Socket Cap Steel 12.9 M5 20 mm 4679981 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 40 mm 4680032	Hex Socket Cap	Steel	12.9	M4	20 mm	4679903
Hex Socket Cap Steel 12.9 M4 35 mm 8229072 Hex Socket Cap Steel 12.9 M4 40 mm 4679947 Hex Socket Cap Steel 12.9 M5 8 mm 8229085 Hex Socket Cap Steel 12.9 M5 10 mm 4679953 Hex Socket Cap Steel 12.9 M5 12 mm 4679969 Hex Socket Cap Steel 12.9 M5 16 mm 4679975 Hex Socket Cap Steel 12.9 M5 20 mm 4679981 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 40 mm 4680032	Hex Socket Cap	Steel	12.9	M4	25 mm	4679919
Hex Socket Cap Steel 12.9 M4 40 mm 4679947 Hex Socket Cap Steel 12.9 M5 8 mm 8229085 Hex Socket Cap Steel 12.9 M5 10 mm 4679953 Hex Socket Cap Steel 12.9 M5 12 mm 4679969 Hex Socket Cap Steel 12.9 M5 16 mm 4679975 Hex Socket Cap Steel 12.9 M5 20 mm 4679981 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 40 mm 4680032	Hex Socket Cap	Steel	12.9	M4	30 mm	4679931
Hex Socket Cap Steel 12.9 M5 8 mm 8229085 Hex Socket Cap Steel 12.9 M5 10 mm 4679953 Hex Socket Cap Steel 12.9 M5 12 mm 4679969 Hex Socket Cap Steel 12.9 M5 16 mm 4679975 Hex Socket Cap Steel 12.9 M5 20 mm 4679981 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 40 mm 4680032	Hex Socket Cap	Steel	12.9	M4	35 mm	8229072
Hex Socket Cap Steel 12.9 M5 10 mm 4679953 Hex Socket Cap Steel 12.9 M5 12 mm 4679969 Hex Socket Cap Steel 12.9 M5 16 mm 4679975 Hex Socket Cap Steel 12.9 M5 20 mm 4679981 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 40 mm 4680032	Hex Socket Cap	Steel	12.9	M4	40 mm	4679947
Hex Socket Cap Steel 12.9 M5 10 mm 4679953 Hex Socket Cap Steel 12.9 M5 12 mm 4679969 Hex Socket Cap Steel 12.9 M5 16 mm 4679975 Hex Socket Cap Steel 12.9 M5 20 mm 4679981 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 40 mm 4680032						_
Hex Socket Cap Steel 12.9 M5 12 mm 4679969 Hex Socket Cap Steel 12.9 M5 16 mm 4679975 Hex Socket Cap Steel 12.9 M5 20 mm 4679981 Hex Socket Cap Steel 12.9 M5 25 mm 4679997 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 40 mm 4680032	Hex Socket Cap	Steel	12.9	M5	8 mm	8229085
Hex Socket Cap Steel 12.9 M5 16 mm 4679975 Hex Socket Cap Steel 12.9 M5 20 mm 4679981 Hex Socket Cap Steel 12.9 M5 25 mm 4679997 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 40 mm 4680032	Hex Socket Cap	Steel	12.9	M5	10 mm	4679953
Hex Socket Cap Steel 12.9 M5 20 mm 4679981 Hex Socket Cap Steel 12.9 M5 25 mm 4679997 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 40 mm 4680032	Hex Socket Cap	Steel	12.9	M5	12 mm	4679969
Hex Socket Cap Steel 12.9 M5 25 mm 4679997 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 40 mm 4680032	Hex Socket Cap	Steel	12.9	M5	16 mm	4679975
Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 40 mm 4680032	Hex Socket Cap	Steel	12.9	M5	20 mm	4679981
Hex Socket Cap Steel 12.9 M5 35 mm 4680010 Hex Socket Cap Steel 12.9 M5 40 mm 4680032	Hex Socket Cap	Steel	12.9	M5	25 mm	4679997
Hex Socket Cap Steel 12.9 M5 40 mm 4680032	Hex Socket Cap	Steel	12.9	M5	30 mm	4680004
	Hex Socket Cap	Steel	12.9	M5	35 mm	4680010
Hex Socket Cap Steel 12.9 M5 50 mm 4680048	Hex Socket Cap	Steel	12.9	M5	40 mm	4680032
	Hex Socket Cap	Steel	12.9	M5	50 mm	4680048



Head Shape	Material	Grade	Thread Size	Length	RS Part No.
Hex Socket Cap	Steel	12.9	M6	12 mm	4680060
Hex Socket Cap	Steel	12.9	M6	14 mm	8229313
Hex Socket Cap	Steel	12.9	M6	15 mm	8229088
Hex Socket Cap	Steel	12.9	M6	16 mm	4680076
Hex Socket Cap	Steel	12.9	M6	20 mm	4680105
Hex Socket Cap	Steel	12.9	M6	25 mm	4680082
Hex Socket Cap	Steel	12.9	M6	30 mm	4680098
Hex Socket Cap	Steel	12.9	M6	35 mm	4680111
Hex Socket Cap	Steel	12.9	M6	40 mm	4680127
Hex Socket Cap	Steel	12.9	M6	45 mm	4680133
Hex Socket Cap	Steel	12.9	M6	50 mm	4680149
Hex Socket Cap	Steel	12.9	M6	55 mm	8229082
Hex Socket Cap	Steel	12.9	M6	60 mm	4680155
Hex Socket Cap	Steel	12.9	M6	70 mm	275018
Hex Socket Cap	Steel	12.9	M8	12 mm	529696
Hex Socket Cap	Steel	12.9	M8	16 mm	529703
Hex Socket Cap	Steel	12.9	M8	20 mm	529719
Hex Socket Cap	Steel	12.9	M8	25 mm	529725
Hex Socket Cap	Steel	12.9	M8	30 mm	4680161
Hex Socket Cap	Steel	12.9	M8	35 mm	4680177
Hex Socket Cap	Steel	12.9	M8	40 mm	4680199
Hex Socket Cap	Steel	12.9	M8	45 mm	4680206
Hex Socket Cap	Steel	12.9	M8	50 mm	4680212
Hex Socket Cap	Steel	12.9	M8	55 mm	4680228
Hex Socket Cap	Steel	12.9	M8	60 mm	4680234
Hex Socket Cap	Steel	12.9	M8	65 mm	8229091
Hex Socket Cap	Steel	12.9	M8	70 mm	275052
Hex Socket Cap	Steel	12.9	M8	80 mm	4680256
Hex Socket Cap	Steel	12.9	M8	100 mm	4680284

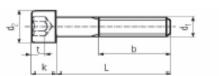


					DO D (1)	
Head Shape	Material	Grade	Thread Size	Length	RS Part No.	
Hex Socket Cap	Steel	12.9	M10	20 mm	4680278	
Hex Socket Cap	Steel	12.9	M10	25 mm	4680290	
Hex Socket Cap	Steel	12.9	M10	30 mm	4680313	
Hex Socket Cap	Steel	12.9	M10	35 mm	4680329	
Hex Socket Cap	Steel	12.9	M10	40 mm	529810	
Hex Socket Cap	Steel	12.9	M10	45 mm	275096	
Hex Socket Cap	Steel	12.9	M10	50 mm	529826	
Hex Socket Cap	Steel	12.9	M10	55 mm	275103	
Hex Socket Cap	Steel	12.9	M10	60 mm	529832	
Hex Socket Cap	Steel	12.9	M10	65 mm	4680335	
Hex Socket Cap	Steel	12.9	M10	70 mm	4680341	
Hex Socket Cap	Steel	12.9	M10	80 mm	4680357	
Hex Socket Cap	Steel	12.9	M10	90 mm	275147	
Hex Socket Cap	Steel	12.9	M10	100 mm	275153	
Hex Socket Cap	Steel	12.9	M10	120 mm	4680363	
Hex Socket Cap	Steel	12.9	M12	25 mm	4680385	
Hex Socket Cap	Steel	12.9	M12	30 mm	4680391	
Hex Socket Cap	Steel	12.9	M12	40 mm	4680408	
Hex Socket Cap	Steel	12.9	M12	45 mm	4680414	
Hex Socket Cap	Steel	12.9	M12	50 mm	4680420	
Hex Socket Cap	Steel	12.9	M12	55 mm	275181	
Hex Socket Cap	Steel	12.9	M12	60 mm	529898	
Hex Socket Cap	Steel	12.9	M12	65 mm	275197	
Hex Socket Cap	Steel	12.9	M12	70 mm	275204	
Hex Socket Cap	Steel	12.9	M12	80 mm	275226	
Hex Socket Cap	Steel	12.9	M12	90 mm	4680436	
Hex Socket Cap	Steel	12.9	M12	100 mm	4680442	
Hex Socket Cap	Steel	12.9	M12	120 mm	4680458	
Hex Socket Cap	Steel	12.9	M16	40 mm	4680492	
Hex Socket Cap	Steel	12.9	M16	50 mm	4680515	
Hex Socket Cap	Steel	12.9	M16	60 mm	275327	
Hex Socket Cap	Steel	12.9	M16	70 mm	275349	
Hex Socket Cap	Steel	12.9	M16	80 mm	275361	
Hex Socket Cap	Steel	12.9	M16	100 mm	275383	
Hex Socket Cap	Steel	12.9	M16	120 mm	4680543	





SOCKET HEAD CAP SCREWS DIN 912/ ISO 4762 / ANSI B 18.3.1 M





Head Diameter d2 based on Knurled Head

Thread Size d1	M	36	(N	(39)	M	42	(M	45)	M	M48 M56		M64		
Thread Pitch		4		4	4	.5	4.5		5		5.5		6	
Thread Length b	84		NA		96		NA		108		124		140	
Head Dla. d2	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	53.54	54.46	57.54	58.46	62.54	63.46	66.54	67.46	71.54	72.46	83.46	84.54	95.46	96.54
ISO 4762 (1997)	53.54	54.46			62.54	63.46			71.54	72.46	83.46	84.54	95.46	96.54
ANSI B 18.3.1 M (1986)	53.37	54.46			62.31	63.46			71.27	72.46				
Head Height k	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	35.38	36.00	38.38	39.00	41.38	42.00	44.38	45.00	47.38	48.00	55.26	56.00	63.26	64.00
ISO 4762 (1997)	35.38	36.00			41.38	42.00			47.38	48.00	55.26	56.00	63.26	64.00
ANSI B 18.3.1 M (1986)	35.64	36.00			41.61	42.00			47.58	48.00				
Key Size nominal s	2	7		27	3	2	3	2	3	36	4	1	4	6
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	27.065	27.275	27.065	27.275	32.08	32.33	32.08	32.33	36.08	36.33	41.08	41.33	46.08	46.33
ISO 4762 (1997)	27.065	27.275			32.08	32.33			36.08	36.33	41.08	41.33	46.08	46.33
ANSI B 18.3.1 M (1986)	27.065	27.319			32.080	32.461			36.080	36.461				
Key Engagement t	m	in.	m	ıln.	m	in.	min.		min.		min.		min.	
DIN 912 (1983)		9		22		4	2	4	28		34		38	
ISO 4762 (1997)		9				4				28	•••	4	38	
ANSI B 18.3.1 M (1986)	1	8			2	1			2	24				
Thread Size d1	M	72	N	180	M	90	M1	100	1					
Thread Pitch		5		6		5		5	1					
Thread Length b	1	56	1	72	19	92	2	12	1					
Head Dia. d2	min.	max.	min.	max.	min.	max.	min.	max.]					
DIN 912 (1983)	107.46	108.54	119.46	120.54	134.37	135.63	149.37	150.63]					
Head Height k	min.	max.	min.	max.	min.	max.	min.	max.	1					
DIN 912 (1983)	71.26	72.00	79.26	80.00	89.13	90.00	99.13	100.00	1					
Key Size nominal s	5	5		55	7	5	00	5						
	min.	max.	min.	max.	min.	max.	min.	max.	1					
DIN 912 (1983)	55.10	55.40	65.10	65.40	75.10	75.40	85.12	85.47	1					
Key Engagement t	m	in.	n	ıln.	m		m	in.						
DIN 912 (1983)	4	3	4	48	5	4	60]					
Property Class	12	2.9	8.8≤0	16mm	8.8≥d 16mm 10.9		A2 /A4-50 A2 /A4-70		A2 /A4-80					
Tensile Strength	17690	00 psi	1160	00 psi	12035	iO psi	15080	00 psi	7250	00 psi	1015	00 psl	116000 psi	
Yield Strength	1595	00 psl	928	00 psi	9570	0 psl	136300 psi 30450 psi		6525	iO psl	87000 psl			
Rockwell Hardness (HRC)	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
INDUMBER HARDINESS ITHIC														
· · · · · · ·	39	44	22	32	23	34	32	39	NA	NA	NA	NA	NA	NA

Property Class	Steel	Steel	Stainless Steel			
Property Class	12.9	8.8 & 10.9	A2 & A4			
Finish	F	Furnace Black Plain				
Thread Tolerance	5g6g	6q				

Diameters & Lengths With () are not recommended for new design.

M1.4, 2.6, 39 and 45 are no longer included in DIN 912.

M1.4, 2.6, 18, 22, 27, 33, 39, and 45 are no longer included in ISO 4762.

The basic difference between DIN 912-12.9 (1983) / ISO 4762-12.9 (1997) and ANSI B 18.3.M (1986) is both DIN and ISO have a thread tolerance of 5g6g, while ANSI has a thread tolerance of 4g6g, which may not be readily available on a worldwide basis.

ANSI B 18.3.1 M is only available in Property Class 12.9.

For More Detailed Information, Please Refer To Complete DIN, ISO, or ANSI Standard, Which Are The Governing Standards.

DIN 912 (1983) / ISO 4762 (1997) / ANSI B 18.3.1M (1982) - LGF 05/01/08

See Next Page For Additional Information