



**ENGLISH** 

### **Datasheet**

**RS Stock No: 8229114** 

# Steel Black Self-Colour, Hexagon Socket Button Head

**Screws: Metric Thread** 



Button Head Socket Screws are designed for light duty. They have a similar thread design as a Socket Cap Screw although the dome-shaped head is wider and has a lower profile than a Socket Cap Screw, presenting an aesthetic appearance in an assembly. These fasteners are ideal when a wider bearing surface is required.

Self-Colour steel is an uncoated mild steel and is used in applications where corrosion resistance is not required. If painted or suitably treated these Self-Colour Button Head Socket Screws can be used in outdoor applications.

- Threaded in accordance with ISO 7380 Standard
- 10.9 grade black, self-colour 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 and many internal joinery applications
- Requires a Hex Key / Allen Key





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Please view our full range listing below for all Steel Black Self-Colour Hexagon Socket Button Head Screws:

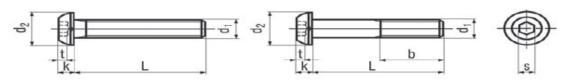
Head Shape	Material	Thread Size	Length	RS Part No.		
Hex Socket Button	Steel	M3	5 mm	8229094		
Hex Socket Button	Steel	M3	6 mm	8229098		
Hex Socket Button	Steel	M4	6 mm	8229307		
Hex Socket Button	Steel	M4	20 mm	8229108		
Hex Socket Button	Steel	M4	25 mm	8229101		
Hex Socket Button	Steel	M5	6 mm	8229105		
Hex Socket Button	Steel	M5	8 mm	8229114		
Hex Socket Button	Steel	M6	8 mm	8229117		
Hex Socket Button	Steel	M6	10 mm	8229111		
Hex Socket Button	Steel	M6	15 mm	8229120		
Hex Socket Button	Steel	M6	30 mm	8229123		
Hex Socket Button	Steel	M6	40 mm	8229127		
Hex Socket Button	Steel	M6	50 mm	8229136		
Hex Socket Button	Steel	M8	10 mm	8229139		
Hex Socket Button	Steel	M8	35 mm	8229133		





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#### BUTTON HEAD SOCKET HEAD CAP SCREWS ~ISO 7380 / ANSI B 18.3.4 M



Thread Size d1		M3	M4	M5	M6	M8	M10	M12	M16
Thread Pitch		0.5	0.7	0.8	1	1.25	1.5	1.75	2
~ISO 7380	min.	5.4	7.24	9.14	10.07	13.57	17.07	20.48	27.48
Head Dia. d2	max.	5.7	7.60	9.50	10.50	14.00	17.50	21.00	28.00
ANSI B 18.3.4M	min.	5.4	7.24	9.14	10.07	13.57	17.07	20.48	27.48
Head Dia. d2	max.	5.7	7.60	9.50	10.50	14.00	17.50	21.00	28.00
~ISO 7380	min.	1.40	1.95	2.50	3.00	4.10	5.20	6.24	8.44
Head Height k	max.	1.65	2.20	2.75	3.30	4.40	5.50	6.60	8.80
ANSI B 18.3.4M Head Height k	min.	1.43	1.95	2.50	3.00	4.05	5.20	6.24	8.44
	max.	1.65	2.20	2.75	3.30	4.40	5.50	6.60	8.80
~ISO 7380 Key Size s	Nominal Size	2	2.5	3	4	5	6	8	10
	min.	2.020	2.52	3.020	4.020	5.020	6.020	8.025	10.025
	max.	2.045	2.56	3.071	4.084	5.084	6.095	8.115	10.115
ANCID 40.2 4M	Nominal Size	2	2.5	3	4	5	6	8	10
ANSI B 18.3.4M Key Size s	min.	2.020	2.52	3.020	4.020	5.020	6.020	8.025	10.025
	max.	2.045	2.56	3.071	4.084	5.084	6.095	8.115	10.115
~ISO 7380 Key Engagement t	min.	1.04	1.3	1.56	2.08	2.60	3.12	4.16	5.20
ANSI B 18.3.4M Key Engagement t	min.	1.04	1.3	1.56	2.08	2.60	3.12	4.16	5.20

	~ ISO	~ ISO 7380		<<<<<< <length tolerance="">&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;</length>						ANSI B 18.3.4.M		
Nominal Length	min	max	M3	M4	M5	M6	M8	M10	M12	M16	min	max
6	5.76	6.24									5.7	6.3
8	7.71	8.29									7.7	8.3
10	9.71	10.29									9.7	10.3
12	11.65	12.35									11.7	12.3
16	15.65	16.35	Γ								15.7	16.3
20	19.58	20.42		r – –							19.5	20.5
25	24.58	25.42									24.5	25.5
30	29.58	30.42									29.5	30.5
35	34.5	35.5			ı —  —	i — —					34.5	35.5
40	39.5	40.5									39.5	40.5
45	44.5	45.5					ì— —	i— — :			44.5	45.5
50	49.5	50.5									49.5	50.5
55	54.4	55.6								1	54.5	55.5
60	59.4	60.6									59.5	60.5

#### Nominal Lengths above the stepped line Full Thread

Nominal Lengths below the stepped line, the thread length at the discretion of the manufacturer, may be between a minimum of 2d+12mm and a maximum which is within 2 P of the head.

~ISO 7380	
	Neither standard is 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.
ANSI B 18.3.4M	property class 10.5 of 12.5 is to increase the wear resistance of the socket unive.

~ISO 7380	ANSI B 18.3.4M			
Material	Steel	Stainless Steel	Material	Steel
Property Class	10.9	A2 & A4	Property Class	12.9
Finish	Furnace Black	Plain	Finish	Furnace Black
Thread Tolerance	6g	6g	Thread Tolerance	4g6g