

## EN

## Datasheet

**BZP Steel Hexagon Socket Button Head Screws: Metric Thread** 

**RS Product No: 8229177** 



Button Head Socket Screws are designed for light duty with 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 to an assembly.

- BZP Steel
- Threaded in accordance with ISO 7380 standard
- 10.9 grade High Tensile Steel
- · Used for applications with limited space in high tensile applications
- Suitable for light fastening applications in most food, facilities maintenance and electronic & domestic applications.
- Typical applications include; Machine tooling, Securing guards and covers, Securing ornamental, fixtures, plus many more engineering applications
- Requires a Hex key / Allen key



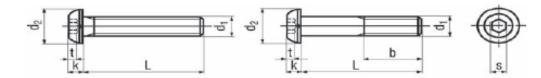
Please view our full range listing below for all BZP Steel Hexagon Socket Button Head Screws

Steel	BZP           BZP	M3         M3         M3         M4         M5         M6         M6         M6         M6         M6         M6         M6          M6	8 mm         10 mm         12 mm         6 mm         8 mm         10 mm         12 mm         10 mm         12 mm         10 mm         20 mm         25 mm         6 mm         8 mm         10 mm         12 mm         35 mm         35 mm         10 mm         12 mm	4839543 4839559 4839565 8229164 4839571 4839587 4839593 4839600 8229167 8229167 8229167 8229161 8229170 8229170 8229173 4839616 4839622 4839638 4839644 8229177 8229186 8229189 8229183 4839650
Steel	BZP BZP BZP BZP BZP BZP BZP BZP BZP BZP	M3 M4 M4 M4 M4 M4 M4 M4 M4 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5	12 mm         6 mm         8 mm         10 mm         12 mm         16 mm         20 mm         25 mm         6 mm         8 mm         10 mm         25 mm         6 mm         35 mm         35 mm         10 mm	4839565 8229164 4839571 4839587 4839593 4839600 8229167 8229167 8229170 8229170 8229173 4839616 4839622 4839638 4839644 8229177 8229186 8229189 8229183
Steel Steel	BZP BZP BZP BZP BZP BZP BZP BZP BZP BZP	M4 M4 M4 M4 M4 M4 M4 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5	6 mm         8 mm         10 mm         12 mm         12 mm         16 mm         20 mm         25 mm         6 mm         8 mm         10 mm         25 mm         6 mm         8 mm         10 mm         20 mm         25 mm         35 mm         35 mm         10 mm	8229164 4839571 4839587 4839593 4839600 8229167 8229167 8229161 8229170 8229173 4839616 4839622 4839638 4839644 8229177 8229186 8229189 8229183
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Steel	BZP BZP BZP BZP BZP BZP BZP BZP BZP BZP	M4 M4 M4 M4 M4 M4 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5	8 mm         10 mm         12 mm         16 mm         20 mm         25 mm         6 mm         8 mm         10 mm         12 mm         10 mm         12 mm         10 mm         12 mm         35 mm         35 mm         10 mm	4839571 4839587 4839593 4839600 8229167 8229167 8229170 8229170 8229173 4839616 4839622 4839638 4839644 8229177 8229186 8229189 8229183
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Steel	BZP BZP BZP BZP BZP BZP BZP BZP BZP BZP	M4 M4 M4 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5	12 mm         16 mm         20 mm         25 mm         6 mm         8 mm         10 mm         12 mm         16 mm         20 mm         25 mm         35 mm         8 mm         10 mm	4839593 4839600 8229167 8229167 8229170 8229173 4839616 4839622 4839638 4839644 8229177 8229186 8229189 8229183
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Steel	BZP BZP BZP BZP BZP BZP BZP BZP BZP BZP	M4 M4 M5 M5 M5 M5 M5 M5 M5 M5 M5 M5 M6 M6 M6 M6	20 mm 25 mm 6 mm 8 mm 10 mm 12 mm 16 mm 20 mm 25 mm 35 mm 35 mm 10 mm	8229167 8229161 8229170 8229173 4839616 4839622 4839638 4839644 8229177 8229186 8229189 8229183
Steel	BZP BZP BZP BZP BZP BZP BZP BZP BZP BZP	M4 M5 M5 M5 M5 M5 M5 M5 M5 M5 M6 M6 M6	25 mm 6 mm 8 mm 10 mm 12 mm 16 mm 20 mm 25 mm 35 mm 35 mm 10 mm	8229161 8229170 8229173 4839616 4839622 4839638 4839644 8229177 8229186 8229189 8229183
Steel	BZP BZP BZP BZP BZP BZP BZP BZP BZP BZP	M5 M5 M5 M5 M5 M5 M5 M5 M5 M6 M6 M6	6 mm 8 mm 10 mm 12 mm 16 mm 20 mm 25 mm 35 mm 8 mm 10 mm	8229170 8229173 4839616 4839622 4839638 4839644 8229177 8229186 8229189 8229183
Steel	BZP BZP BZP BZP BZP BZP BZP BZP BZP BZP	M5 M5 M5 M5 M5 M5 M5 M6 M6 M6 M6	8 mm         10 mm         12 mm         16 mm         20 mm         25 mm         35 mm         8 mm         10 mm	8229173 4839616 4839622 4839638 4839644 8229177 8229186 8229189 8229183
Steel	BZP BZP BZP BZP BZP BZP BZP BZP BZP BZP	M5 M5 M5 M5 M5 M5 M5 M6 M6 M6 M6	8 mm         10 mm         12 mm         16 mm         20 mm         25 mm         35 mm         8 mm         10 mm	8229173 4839616 4839622 4839638 4839644 8229177 8229186 8229189 8229183
Steel	BZP BZP BZP BZP BZP BZP BZP BZP BZP BZP	M5 M5 M5 M5 M5 M5 M6 M6 M6 M6	10 mm         12 mm         16 mm         20 mm         25 mm         35 mm         8 mm         10 mm	4839616 4839622 4839638 4839644 8229177 8229186 8229189 8229183
Steel	BZP BZP BZP BZP BZP BZP BZP BZP BZP	M5 M5 M5 M5 M5 M6 M6 M6 M6	12 mm         16 mm         20 mm         25 mm         35 mm         8 mm         10 mm	4839622 4839638 4839644 8229177 8229186 8229189 8229183
Steel Steel Steel Steel Steel Steel Steel Steel	BZP BZP BZP BZP BZP BZP BZP BZP	M5 M5 M5 M5 M6 M6 M6 M6	16 mm         20 mm         25 mm         35 mm         8 mm         10 mm	4839638 4839644 8229177 8229186 8229189 8229183
Steel Steel Steel Steel Steel Steel Steel	BZP BZP BZP BZP BZP BZP BZP	M5 M5 M5 M6 M6 M6	20 mm 25 mm 35 mm 8 mm 10 mm	4839644 8229177 8229186 8229189 8229183
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Steel Steel Steel Steel Steel Steel	BZP BZP BZP BZP BZP BZP	M5 M6 M6 M6	25 mm 35 mm 8 mm 10 mm	8229177 8229186 8229189 8229183
Steel Steel Steel Steel Steel	BZP BZP BZP BZP BZP	M5 M6 M6 M6	35 mm 8 mm 10 mm	8229186 8229189 8229183
Steel Steel Steel Steel	BZP BZP BZP BZP	M6 M6 M6	8 mm 10 mm	8229189 8229183
Steel Steel Steel	BZP BZP BZP	M6 M6	10 mm	8229183
Steel Steel Steel	BZP BZP BZP	M6 M6	10 mm	8229183
Steel Steel	BZP BZP	M6		
Steel	BZP			
		IVIO	16 mm	4839672
	BZP	M6	20 mm	4839688
Steel	BZP	M6	25 mm	4839694
Steel	BZP	M6	30 mm	4915300
Steel	BZP	M6	35 mm	4915316
Steel	BZP	M6	40 mm	4915322
Steel	BZP	M6	50 mm	8229192
				0223132
Steel	BZP	M8	10 mm	8229195
Steel	BZP	M8	12 mm	4839701
Steel	BZP	M8	12 mm	4839717
Steel	BZP	M8	20 mm	4839739
				4839745
				8229199
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				8229206
Steel	ВДР	81/1		8229215
Chaol	070	N440	10	0000040
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	Steel	SteelBZPSteelBZPSteelBZPSteelBZPSteelBZPSteelBZPSteelBZPSteelBZPSteelBZPSteelBZPSteelBZPSteelBZPSteelBZPSteelBZPSteelBZPSteelBZPSteelBZP	SteelBZPM8SteelBZPM8SteelBZPM8SteelBZPM8SteelBZPM8SteelBZPM8SteelBZPM10SteelBZPM10SteelBZPM10SteelBZPM10SteelBZPM10SteelBZPM10SteelBZPM10SteelBZPM10SteelBZPM10SteelBZPM10	SteelBZPM825 mmSteelBZPM830 mmSteelBZPM835 mmSteelBZPM840 mmSteelBZPM845 mmSteelBZPM850 mmSteelBZPM850 mmSteelBZPM1016 mmSteelBZPM1020 mmSteelBZPM1025 mmSteelBZPM1030 mmSteelBZPM1035 mm

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



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 Pitoh		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 Head Dia. d2	min.	5.4	7.24	9.14	10.07	13.57	17.07	20.48	27.48
	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	min.	1.43	1.95	2.50	3.00	4.05	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
-180 7380	Nominal Size	2	2.5	3	4	5	6	8	10
Key Size c	min.	2.020	2.52	3.020	4.020	5.020	6.020	8.025	10.025
1.09 0.20 0	max.	2.045	2.56	3.071	4.084	5.084	6.095	8.115	10.115
ANSI B 18.3.4M	Nominal Size	2	2.5	3	4	5	6	8	10
Key Size c	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

	- 180	7380	cocccccccccq_ength Tolerance>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>					ANSI B 18.3.4.M				
Nominal Length	min	max	MB	M4	M5	M6	MB	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	<b></b>								15.7	16.3
20	19.58	20.42			•						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			r — —	i <b></b>	i – – –				34.5	35.5
40	39.5	40.5									39.5	40.5
45	44.5	45.5					ί <b></b>				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 10.8 or 12.9 is to increase the wear resistance of the cooket drive.
ANSI B 18.3.4M	property date 10.8 of 12.8 is to indicate the wear resistance of the could arre.

-180 7380	ANSI B 18.3.4M			
Material	Steel	Stainless Steel	Material	Steel
Property Class	10.9	A2 & A4	Property Class	12.9
Finish	Fumace Black	Plain	Finish	Furnace Black
Thread Tolerance	6g	6g	Thread Tolerance	4g6g

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

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