

# Datasheet

**RS Stock No: 4839688**

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



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.

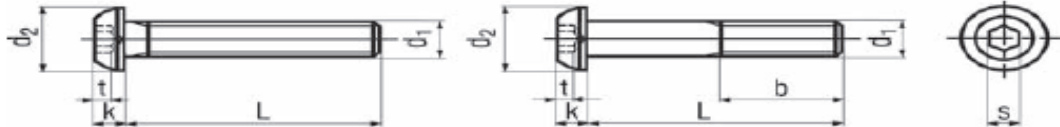
- BZP Steel
- Threaded in accordance with ISO 7380 standard
- 10.9 grade High Tensile Steel
- Used for applications with limited space in high tensile applications
- Suitable for light fastening applications in most food, facilities maintenance and electronic & domestic applications.
- Typical applications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



ENGLISH

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

Head Shape	Material	Finish	Thread Size	Length	RS Part No.
Socket Button	Steel	BZP	M3	8 mm	4839543
Socket Button	Steel	BZP	M3	10 mm	4839559
Socket Button	Steel	BZP	M3	12 mm	4839565
Socket Button	Steel	BZP	M4	6 mm	8229164
Socket Button	Steel	BZP	M4	8 mm	4839571
Socket Button	Steel	BZP	M4	10 mm	4839587
Socket Button	Steel	BZP	M4	12 mm	4839593
Socket Button	Steel	BZP	M4	16 mm	4839600
Socket Button	Steel	BZP	M4	20 mm	8229167
Socket Button	Steel	BZP	M4	25 mm	8229161
Socket Button	Steel	BZP	M5	6 mm	8229170
Socket Button	Steel	BZP	M5	8 mm	8229173
Socket Button	Steel	BZP	M5	10 mm	4839616
Socket Button	Steel	BZP	M5	12 mm	4839622
Socket Button	Steel	BZP	M5	16 mm	4839638
Socket Button	Steel	BZP	M5	20 mm	4839644
Socket Button	Steel	BZP	M5	25 mm	8229177
Socket Button	Steel	BZP	M5	35 mm	8229186
Socket Button	Steel	BZP	M6	8 mm	8229189
Socket Button	Steel	BZP	M6	10 mm	8229183
Socket Button	Steel	BZP	M6	12 mm	4839650
Socket Button	Steel	BZP	M6	16 mm	4839672
Socket Button	Steel	BZP	M6	20 mm	4839688
Socket Button	Steel	BZP	M6	25 mm	4839694
Socket Button	Steel	BZP	M6	30 mm	4915300
Socket Button	Steel	BZP	M6	35 mm	4915316
Socket Button	Steel	BZP	M6	40 mm	4915322
Socket Button	Steel	BZP	M6	50 mm	8229192
Socket Button	Steel	BZP	M8	10 mm	8229195
Socket Button	Steel	BZP	M8	12 mm	4839701
Socket Button	Steel	BZP	M8	16 mm	4839717
Socket Button	Steel	BZP	M8	20 mm	4839739
Socket Button	Steel	BZP	M8	25 mm	4839745
Socket Button	Steel	BZP	M8	30 mm	8229199
Socket Button	Steel	BZP	M8	35 mm	8229209
Socket Button	Steel	BZP	M8	40 mm	8229202
Socket Button	Steel	BZP	M8	45 mm	8229206
Socket Button	Steel	BZP	M8	50 mm	8229215
Socket Button	Steel	BZP	M10	16 mm	8229218
Socket Button	Steel	BZP	M10	20 mm	8229212
Socket Button	Steel	BZP	M10	25 mm	8229221
Socket Button	Steel	BZP	M10	30 mm	8229224
Socket Button	Steel	BZP	M10	35 mm	8229228
Socket Button	Steel	BZP	M10	40 mm	8229237
Socket Button	Steel	BZP	M10	50 mm	8229230



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 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
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 Head Height k	min.	1.40	1.95	2.50	3.00	4.10	5.20	6.24	8.44
	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
ANSI B 18.3.4M 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
~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

Nominal Length	~ ISO 7380		Length Tolerance								ANSI B 18.3.4.M	
	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									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									34.5	35.5
40	39.5	40.5									39.5	40.5
45	44.5	45.5									44.5	45.5
50	49.5	50.5									49.5	50.5
55	54.4	55.6									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	

	~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

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