

# Datasheet

**RS Stock No: 8229259**

## **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.

- Threaded in accordance with ISO 7380 Standard
- BZP Steel
- 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, electronic and 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:

Head Shape	Material	Thread Size	Length	RS Part No.
Socket Button	Steel BZP	M3	6 mm	8229155
Socket Button	Steel BZP	M4	6 mm	8229164
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	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	50 mm	8229192
Socket Button	Steel BZP	M8	10 mm	8229195
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	8229320

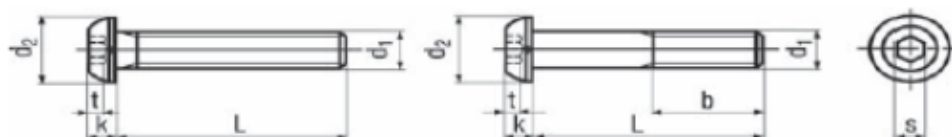


**ENGLISH**

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

Head Shape	Material	Thread Size	Length	RS Part No.
Socket Button	Steel BZP	M12	20 mm	8229234
Socket Button	Steel BZP	M12	25 mm	8229243
Socket Button	Steel BZP	M12	30 mm	8229246
Socket Button	Steel BZP	M12	35 mm	8229240
Socket Button	Steel BZP	M12	40 mm	8229259

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
AN31 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
AN31 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
-ISO 7380 Key Size c	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
AN31 B 18.3.4M Key Size c	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
AN31 B 18.3.4M Key Engagement t	min.	1.04	1.3	1.56	2.08	2.60	3.12	4.16	5.20

[illegible]

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  $2d+12\text{mm}$  and a maximum which is within 2 P of the head.

ISO 7388	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	6a	6a	Thread Tolerance	4a/5a