

FEATURES

- Various thread sizes available
- Manufactured from steel
- Used for applications with limited space in high tensile applications
- Requires a Hex key / Allen key

RS PRO M3 x 10mm Hex Socket Button Screw Black, Self-Colour Steel

RS Stock No.: 281-192



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

RS PRO hexagon button head screws feature a low profile, rounded, dome-shaped head with a hexagon drive. These fasteners are ideal when a wider bearing surface is required and their black, self-colour finish ensures an attractive, quality appearance and finish wherever they are used.

General Specifications

Thread Size	M3
Head Shape	Hex Socket Button
Material	Steel
Finish	Furnace Black
Thread Type	Metric
Grade	10.9
Applications	Woodworking, Domestic applications, Fasteners and fixings, Machine tooling and repair, Security guarding, Panel Building

Mechanical Specifications

Length	10mm
Thread Pitch	0.5mm
Head Diameter Range	5.4mm to 5.7mm
Head Height Range	1.40mm to 1.65mm
Key Size Nominal Range	2.020mm to 2.045mm
Key Engagement	1.04
Thread Tolerance	6g

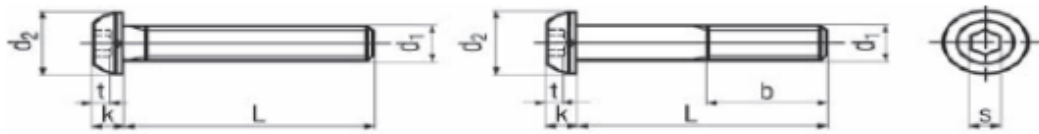
Approvals

Compliance/Certifications

ANSI B18 , ISO 7380



Head Shape	Material	Thread Size	Length	RS Part No.
Hex Socket Cap	Steel	M3	8 mm	281186
Hex Socket Cap	Steel	M3	10 mm	281192
Hex Socket Cap	Steel	M3	12 mm	281209
Hex Socket Cap	Steel	M3	5 mm	8229094
Hex Socket Cap	Steel	M3	6 mm	8229098
Hex Socket Cap	Steel	M4	8 mm	281215
Hex Socket Cap	Steel	M4	10 mm	281221
Hex Socket Cap	Steel	M4	12 mm	281237
Hex Socket Cap	Steel	M4	16 mm	281243
Hex Socket Cap	Steel	M4	25 mm	8229101
Hex Socket Cap	Steel	M4	20 mm	8229108
Hex Socket Cap	Steel	M4	6 mm	8229307
Hex Socket Cap	Steel	M5	10 mm	281259
Hex Socket Cap	Steel	M5	12 mm	281265
Hex Socket Cap	Steel	M5	16 mm	281271
Hex Socket Cap	Steel	M5	20 mm	281287
Hex Socket Cap	Steel	M5	6 mm	8229105
Hex Socket Cap	Steel	M5	8 mm	8229114



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 18.3.4M	
	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
Property Class	10.9	A2 & A4	Property Class
Finish	Furnace Black	Plain	Finish
Thread Tolerance	6g	6g	Thread Tolerance

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