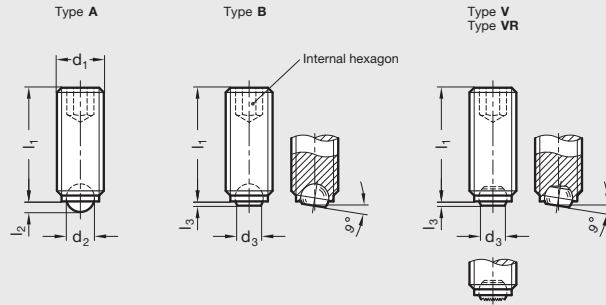
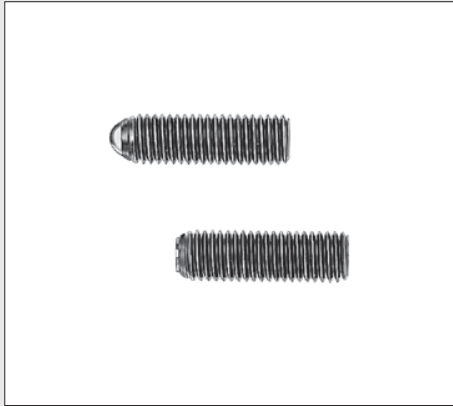


# GN 605 / GN 605.6 | Steel Socket Set Screws

Inch and Metric Size • With Full, Flat and Serrated Ball Point Ends



ISO 9001 Supplier    RoHS Compliant

**Body**  
Alloy steel, black oxide finish  
European standard 10.9 grade  
(American standard A490)

**Ball**  
Steel, hardened

**GN 605.6**  
includes steel hex nut and flat washer DIN125A

Socket set screws with full ball point are used in applications where a ball point contact is required. The flat faced moveable ball allows the clamping or supporting of non-parallel surfaces. Indentation on the workpiece is eliminated and the workpiece does not alter its position during clamping.

Socket set screws with safety twist ball is designed so the flat faced ball cannot twist more than a maximum of 9 degrees. This allows full clamping of the flat faced ball at all times. Socket head cap screws with ball point, see GN 606, page 630. GN 605.6: Accessory for pneumatic clamps MN 110, page 883, MN 120, page 883, and MN 130, page 884.

## Inch Table – Full and Flat Ball without Safety Feature

Dimensions in: inches (millimeters)

Part Number		d <sub>1</sub>	l <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	l <sub>2</sub> ≈	A/F
Full Ball	Flat Ball	Thread	Thread Length				
25T25000P05/A	-	6-32	.250	.078 (1.98)	.061 (1.56)	.024 (.61)	.063 (1.59)
15T37P05/A	15T37P05/B	8-32	.375	.094 (2.38)	.075 (1.91)	.030 (.76)	.078 (1.98)
2T5000P05/A	2T5000P05/B	10-24	.500	.125 (3.18)	.103 (2.61)	.039 (.99)	.094 (2.38)
2T580P05/A	2T580P05/B		.625				
1T5000P05/A	1T5000P05/B	10-32	.500	.125 (3.18)	.103 (2.61)	.039 (.99)	.094 (2.38)
1T580P05/A	1T580P05/B		.625				
3T5000P05/A	3T5000P05/B	1/4-20	.500	.156 (3.97)	.124 (3.14)	.049 (1.24)	.125 (3.18)
3T580P05/A	3T580P05/B		.625				
5T5000P05/A	5T5000P05/B	5/16-18	.500	.219 (5.56)	.172 (4.37)	.067 (1.70)	.156 (3.97)
5T75P05/A	5T75P05/B		.750				
5T87P05/A	5T87P05/B		.875				
6T580P05/A	6T580P05/B	3/8-16	.625	.266 (6.75)	.210 (5.32)	.079 (2.01)	.187 (4.76)
6T75P05/A	6T75P05/B		.750				
8T75P05/A	8T75P05/B	1/2-13	.750	.344 (8.73)	.266 (6.76)	.102 (2.59)	.250 (6.35)
8T1500P05/A	8T1500P05/B		1.50				

## Metric Table – Full and Flat Ball without Safety Feature

Dimensions in: millimeters (inches)

Part Number		d <sub>1</sub>	l <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	l <sub>2</sub> ≈	A/F
Full Ball	Flat Ball	Thread	Thread Length				
4N6P05/A	-	M4 x .7	6	2.5 (.10)	-	.4 (.02)	2 (.08)
4N10P05/A	-		10				
4N16P05/A	-		16				
5N8P05/A	-	M5 x .8	8	3 (.12)	-	.6 (.02)	2.5 (.10)
5N12P05/A	-		12				
5N20P05/A	-		20				

Table continued...

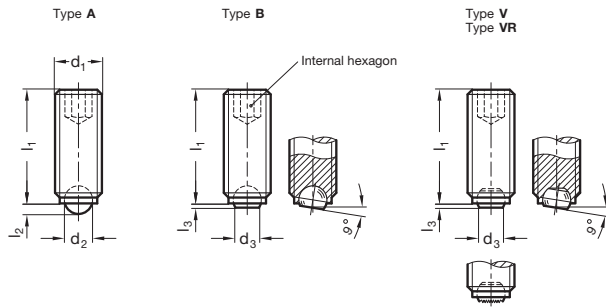
**GN 605/GN 605.6 | Steel Socket Set Screws | Inch and Metric Size • With Full, Flat and Serrated Ball Point Ends**

Part Number		d <sub>1</sub> Thread	l <sub>1</sub> Thread Length	d <sub>2</sub>	d <sub>3</sub>	l <sub>2</sub> ≈	A/F
Full Ball	Flat Ball						
6N10P05/A	6N10P05/B	M6 x 1.0	10	4 (.16)	3.2 (.13)	.8 (.03)	3 (.12)
6N16P05/A	6N16P05/B		16				
6N20P05/A	6N20P05/B		20				
6N25P05/A	6N25P05/B		25				
8N10P05/A	8N10P05/B	M8 x 1.25	10	5.5 (.22)	4.5 (.18)	1.2 (.05)	4 (.16)
8N12P05/A	8N12P05/B		12				
8N20P05/A	8N20P05/B		20				
8N25P05/A	8N25P05/B		25				
8N30P05/A	8N30P05/B		30				
10N12P05/A	10N12P05/B	M10 x 1.5	12	7 (.28)	6 (.24)	1.7 (.07)	5 (.20)
10N16P05/A	10N16P05/B		16				
10N20P05/A	10N20P05/B		20				
10N25P05/A	10N25P05/B		25				
10N35P05/A	10N35P05/B		35				
12N16P05/A	12N16P05/B	M12 x 1.75	16	8.5 (.33)	7.2 (.28)	2 (.08)	6 (.24)
12N20P05/A	12N20P05/B		20				
12N30P05/A	12N30P05/B		30				
12N40P05/A	12N40P05/B		40				
16N20P05/A	16N20P05/B	M16 x 2.0	20	12 (.47)	10.7 (.42)	3.3 (.13)	8 (.31)
16N25P05/A	16N25P05/B		25				
16N35P05/A	16N35P05/B		35				
16N50P05/A	16N50P05/B		50				

**Metric Table – Flat Ball with Safety Twist Feature**

Dimensions in: millimeters (*inches*)

Part Number		d <sub>1</sub> Thread	l <sub>1</sub> Thread Length	d <sub>3</sub>	A/F
Plain Flat Ball	Serrated Flat Ball				
6N10P05/V	6N10P05/VR	M6 x 1.0	10	3.2 (.13)	3 (.12)
6N16P05/V	6N16P05/VR		16		
6N20P05/V	6N20P05/VR		20		
6N25P05/V	6N25P05/VR		25		
8N10P05/V	8N10P05/VR	M8 x 1.25	10	4.5 (.18)	4 (.16)
8N12P05/V	8N12P05/VR		12		
8N20P05/V	8N20P05/VR		20		
8N25P05/V	8N25P05/VR		25		
8N30P05/V	8N30P05/VR		30		
10N12P05/V	10N12P05/VR	M10 x 1.5	12	6 (.24)	5 (.20)
10N16P05/V	10N16P05/VR		16		
10N20P05/V	10N20P05/VR		20		
10N25P05/V	10N25P05/VR		25		
10N35P05/V	10N35P05/VR		35		
12N16P05/V	12N16P05/VR	M12 x 1.75	16	7.2 (.28)	6 (.24)
12N20P05/V	12N20P05/VR		20		
12N30P05/V	12N30P05/VR		30		
12N40P05/V	12N40P05/VR		40		
16N20P05/V	16N20P05/VR	M16 x 2.0	20	10.7 (.42)	8 (.31)
16N25P05/V	16N25P05/VR		25		
16N35P05/V	16N35P05/VR		35		
16N50P05/V	16N50P05/VR		50		



**Metric Table – Serrated Flat Ball with Nut and Washer**

Dimensions in: millimeters (*inches*)

GN 605.6 Part Number	d <sub>1</sub> Thread	l <sub>1</sub> Thread Length	d <sub>2</sub>	d <sub>3</sub>	l <sub>2</sub> ≈	A/F
8N40PAG	M8 x 1.25	40	5.5 (.22)	4.5 (.18)	1.2 (.05)	4 (.16)
10N50PAG	M10 x 1.5	50	7 (.28)	6 (.24)	1.7 (.07)	5 (.20)
12N50PAG	M12 x 1.75	50	8.5 (.33)	7.2 (.28)	2 (.08)	6 (.24)