



- 3 Type**
- A** Full ball
 - B** Flat ball
 - V** Flat ball, with swivel limiting stop
 - VR** Flat ball, with swivel limiting stop, serrated

Specification

- Body
 - Steel
 - Tempered
 - Blackened finish
- Ball
 - Hardened
 - Plain finish
- **RoHS compliant**

On request

- Socket set screws with (full) plastic ball (Type AK)

Information

GN 605 socket set screws with full ball point (type A) are used in applications where a ball point contact is required.

The flat faced moveable ball (type B) 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 (types V and VR) are 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.

see also...

- *Set Screws GN 913.2 (with Hardened Tip) → page 1101*
- *Socket Head Cap Screws GN 606 → page 1106*

<p>How to order</p> <p>GN 605-10X24-0.500-B</p>	<p>1 Thread d_1</p> <p>2 Thread length l_1</p> <p>3 Type</p>
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Inch table

Dimensions in: inches - millimeters

d ₁ Type A Type B	I ₁ Nominal length			d ₂	d ₃	I ₂ ≈	I ₃ ≈	A/F	Static load Type A / Type B
	1	2							
6 x 32*	0.250 6.4	-	-	0.078 2.0	0.061 1.5	0.024 0.6	-	0.063	607 lbf 2700 N
8 x 32	0.375 9.5	-	-	0.094 2.4	0.075 1.9	0.030 0.8	0.0118 0.3	0.078	787 lbf 3500 N
10 x 24	0.500 12.7	0.625 15.9	-	0.125 3.2	0.103 2.6	0.039 1.0	0.0150 0.4	0.094	1124 lbf 5000 N
10 x 32	0.500 12.7	0.625 15.9	-	0.125 3.2	0.103 2.6	0.039 1.0	0.0150 0.4	0.094	1124 lbf 5000 N
1/4 x 20	0.500 12.7	0.625 15.9	-	0.156 4.0	0.124 3.1	0.049 1.2	0.0236 0.6	0.125	2023 lbf 9000 N
5/16 x 18	0.500 12.7	0.750 19.1	0.875 22.2	0.219 5.6	0.172 4.4	0.067 1.7	0.0314 0.8	0.156	3372 lbf 15000 N
3/8 x 16	0.625 15.9	0.750 19.1	-	0.266 6.8	0.210 5.3	0.079 2.0	0.0314 0.8	0.187	5395 lbf 24000 N
1/2 x 13	0.750 19.1	1.50 38.1	-	0.344 8.7	0.266 6.8	0.102 2.6	0.0393 1.0	0.250	6744 lbf 30000 N

Metric table

Dimensions in: millimeters - inches

d ₁ Type A Type B	Type V Type VR	I ₁ Nominal length					d ₂	d ₃	I ₂ ≈	I ₃ ≈	I ₄ ≈	A/F	Static load Type A / Type B
		6	10	16	-	-							
M 4	-	6 0.24	10 0.39	16 0.63	-	-	2.5 0.10	2 0.08	0.8 0.03	0.3 0.01	-	2	3500 N 787 lbf
M 5	-	8 0.31	12 0.47	20 0.79	-	-	3 0.12	2.5 0.10	1 0.04	0.4 0.02	-	2.5	5000 N 1124 lbf
M 6	M 6	10 0.39	16 0.63	20 0.79	25 0.98	-	4 0.16	3.2 0.13	1.3 0.05	0.6 0.02	0.45 0.02	3	9000 N 2023 lbf
M 8	M 8	10 0.39	12 0.47	20 0.79	25 0.98	30 1.18	5.5 0.22	4.5 0.18	1.8 0.07	0.8 0.03	0.5 0.02	4	15000 N 3372 lbf
M 10	M 10	12 0.47	16 0.63	20 0.79	25 0.98	35 1.38	7 0.28	6 0.24	2.3 0.09	0.8 0.03	0.6 0.02	5	24000 N 5395 lbf
M 12	M 12	16 0.63	20 0.79	30 1.18	40 1.57	-	8.5 0.33	7.2 0.28	2.8 0.11	1 0.04	0.75 0.03	6	30000 N 6744 lbf
M 16	M 16	20 0.79	25 0.98	35 1.38	50 1.97	-	12 0.47	10.7 0.42	4.3 0.17	1.3 0.05	1 0.04	8	73000 N 16411 lbf

* This size is only available in type A

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10

