



Inch | Metric



SS Stainless Steel

3 Type

- AN** Full ball
- BN** Flat ball
- VN** Flat ball, with swivel limiting stop
- VRN** Flat ball, with swivel limiting stop, serrated

Specification

- Body
Stainless steel AISI 304
- Ball
Stainless steel AISI 440C
Hardened
- [Stainless Steel Characteristics](#) → page 2143
- [RoHS compliant](#)

Information

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

The flat faced moveable ball (type BN) 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 VN and VRN) 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...

- [Socket Head Cap Screws GN 606](#) → page 1108
- [Set Screws GN 913.5 \(with Brass or Plastic Tip\)](#) → page 1100

How to order

GN 605-1/2X13-0.750-AN

- 1 Thread d₁
- 2 Thread length l₁
- 3 Type

Inch table

Dimensions in: inches - *millimeters*

1 d ₁ Type AN Type BN	2 l ₁ Nominal length		d ₂	d ₃	l ₂ ≈	l ₃ ≈	A/F	Static load Type AN / Type BN
6 x 32*	0.250 6.4	-	0.078 2.0	0.061 1.5	0.024 0.6	-	0.063	364 lbf 1620 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	459 lbf 2040 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	674 lbf 3000 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	674 lbf 3000 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	1012 lbf 4500 N
5/16 x 18	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	2023 lbf 9000 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	3237 lbf 14400 N
1/2 x 13	0.750 19.1	1.500 38.1	0.344 8.7	0.266 6.8	0.102 2.6	0.0393 1.0	0.250	4047 lbf 18000 N

Metric table

Dimensions in: millimeters - *inches*

1 d ₁ Type AN Type BN	Type VN Type VRN	2 l ₁ Nominal length					d ₂	d ₃	l ₂ ≈	l ₃ ≈	l ₄ ≈	A/F	Static load Type AN / Type BN
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	2040 N 459 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	3000 N 674 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	4500 N 1012 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	9000 N 2023 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	14400 N 3237 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	18000 N 4047 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	43800 N 9847 lbf

* This size is only available in type AN

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10

