



<b>SS</b>	Stainless Steel
<b>3</b>	<b>Type</b>
<b>AN</b>	Full ball
<b>BN</b>	Flat ball
<b>VN</b>	Flat ball, with swivel limiting stop
<b>VRN</b>	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 606 socket head cap 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 head cap 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 Set Screws GN 605* → page 1104

<p>How to order</p> <p><b>GN 606-5/16X18-0.875-BN</b></p>	<b>1</b>	Thread d <sub>1</sub>
	<b>2</b>	Thread length l <sub>1</sub>
	<b>3</b>	Type

**Inch table**

Dimensions in: inches - *millimeters*

1 d <sub>1</sub> Type AN Type BN	2 l <sub>1</sub> Nominal length			d <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	l <sub>2</sub> ≈	l <sub>3</sub> ≈	l <sub>5</sub>	l <sub>6</sub>	A/F	Static load Type AN / Type BN
8 x 32	0.500 12.7	-	-	0.078 2.0	0.061 1.5	0.270 6.9	0.030 0.8	0.0078 0.2	0.082 2.1	0.164 4.2	0.141	459 lbf 2040 N
10 x 24	0.500 12.7	0.625 15.9	-	0.094 2.4	0.075 1.9	0.312 7.9	0.039 1.0	0.0150 0.4	0.094 2.4	0.190 4.8	0.156	674 lbf 3000 N
10 x 32	0.500 12.7	0.625 15.9	-	0.125 3.2	0.103 2.6	0.312 7.9	0.039 1.0	0.0150 0.4	0.094 2.4	0.190 4.8	0.156	674 lbf 3000 N
1/4 x 20	0.625 15.9	0.750 19.1	1.250 31.8	0.156 4.0	0.124 3.1	0.375 9.5	0.049 1.2	0.0236 0.6	0.118 3.0	0.250 6.4	0.188	1012 lbf 4500 N
5/16 x 18	0.875 22.2	1.500 38.1	-	0.219 5.6	0.172 4.4	0.469 11.9	0.067 1.7	0.0314 0.8	0.137 3.5	0.313 8.0	0.250	2023 lbf 9000 N
3/8 x 16	1.000 25.4	1.500 38.1	-	0.266 6.8	0.210 5.3	0.562 14.3	0.079 2.0	0.0314 0.8	0.177 4.5	0.375 9.5	0.313	3237 lbf 14400 N
1/2 x 13	2.000 50.8	-	-	0.344 8.7	0.266 6.8	0.750 19.1	0.102 2.6	0.0393 1.0	0.196 5.0	0.500 12.7	0.375	4047 lbf 18000 N

**Metric table**

Dimensions in: millimeters - *inches*

1 d <sub>1</sub> Type AN Type BN	2 Type VN Type VRN	l <sub>1</sub> Nominal length						d <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	l <sub>2</sub> ≈	l <sub>3</sub> ≈	l <sub>4</sub> ≈	l <sub>5</sub>	l <sub>6</sub>	A/F	Static load Type AN / Type BN
M 4	-	10 0.39	12 0.47	16 0.63	20 0.79	25 0.98	2.5 0.10	2 0.08	7 0.28	0.8 0.03	0.2 0.01	-	2.1 0.08	4 0.16	3	2040 N 459 lbf	
M 5	-	12 0.47	16 0.63	20 0.79	25 0.98	30 1.18	3 0.12	2.5 0.10	8.5 0.33	1 0.04	0.4 0.02	-	2.4 0.09	5 0.20	4	3000 N 674 lbf	
M 6	M 6	16 0.63	20 0.79	25 0.98	30 1.18	40 1.57	4 0.16	3.2 0.13	10 0.39	1.3 0.05	0.6 0.02	0.45 0.02	3 0.12	6 0.24	5	4500 N 1012 lbf	
M 8	M 8	20 0.79	30 1.18	35 1.38	40 1.57	50 1.97	5.5 0.22	4.5 0.18	13 0.51	1.8 0.07	0.8 0.03	0.5 0.02	3.5 0.14	8 0.31	6	9000 N 2023 lbf	
M 10	M 10	25 0.98	30 1.18	40 1.57	50 1.97	60 2.36	7 0.28	6 0.24	16 0.63	2.3 0.09	0.8 0.03	0.6 0.02	4.5 0.18	10 0.39	8	14400 N 3237 lbf	
M 12	M 12	30 1.18	50 1.97	80 3.15	-	-	8.5 0.33	7.2 0.28	18 0.71	2.8 0.11	1 0.04	0.75 0.03	5 0.20	12 0.47	10	18000 N 4047 lbf	
M 16	M 16	40 1.57	60 2.36	80 3.15	-	-	12 0.47	10.7 0.42	24 0.94	4.3 0.17	1.3 0.05	1 0.04	6 0.24	16 0.63	14	43800 N 9847 lbf	

3.1  
3.2  
3.3  
3.4  
3.5  
3.6  
3.7  
3.8  
3.9  
3.10

