

## METRIC SOCKET SET SCREWS ■ Knurled Cup Point and Plain Cup Point ■ Dimensions

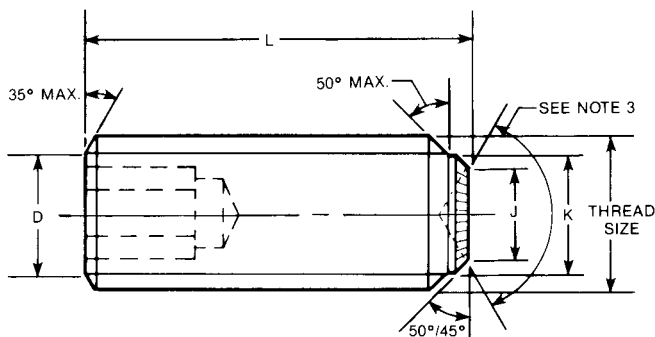
**Threads:** ANSI B 1.13M, ISO 261, ISO 262  
(coarse series only)

**Grade:** 45H

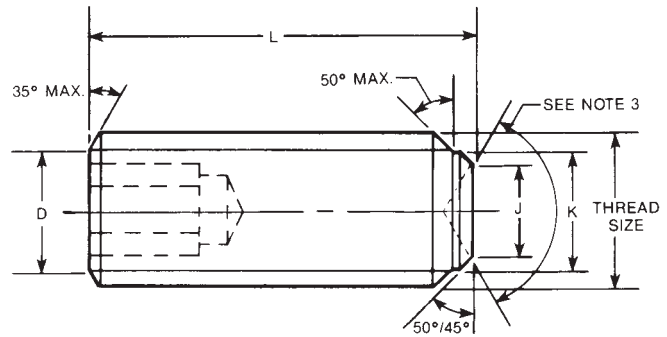
**Applicable or Similar Specifications:** ANSI B 18.3.6M,  
ISO 4029, DIN 916, DIN 915, DIN 914, DIN 913

### NOTES

- Material:** ASTM F912M
- Hardness:** Rockwell C45-53
- Angle:** The cup angle is 135 maximum for screw lengths equal to or smaller than screw diameter. For longer lengths, the cup angle will be 124 maximum
- Thread Class:** 4g 6g



**KNURLED CUP POINT**



**PLAIN CUP POINT**

### LENGTH TOLERANCE

nominal screw length	nominal screw diameter
	M1.6 thru M24
	tolerance on lgth., mm
Up to 12 mm, incl.	±0.3
Over 12 to 50 mm, incl.	±0.5
Over 50 mm	±0.8

### DIMENSIONS

### APPLICATION DATA

nom. thread size	pitch	D max.	J max.		K max.	L min. preferred		W nom.	recommended* seating torque	
			plain cup	knurled cup		plain cup	knurled cup		N-m	in-lbs.
<b>MICROSIZE – Plain Cup Only</b>										
M1.6	0.35	1.0	0.80	–	–	2.0	–	0.7	0.09	0.8
M2	0.40	1.32	1.00	–	–	2.5	–	0.9	0.21	1.8
M2.5	0.45	1.75	1.25	–	–	3.0	–	1.3	0.57	5.0
<b>STANDARD SIZE – Knurled Cup Point Supplied Unless Plain Cup Point Is Specified</b>										
M3	0.5	2.10	1.50	1.40	2.06	3.0	3.0	1.5	0.92	8.0
M4	0.7	2.75	2.00	2.10	2.74	3.0	3.0	2.0	2.2	19.0
M5	0.8	3.70	2.50	2.50	3.48	4.0	4.0	2.5	4.0	35.0
M6	1.0	4.35	3.00	3.30	4.14	4.0	5.0	3.0	7.2	64
M8	1.25	6.00	5.00	5.00	5.62	5.0	6.0	4.0	17.0	150.0
M10	1.5	7.40	6.00	6.00	7.12	6.0	8.0	5.0	33.0	290
M12	1.75	8.60	8.00	8.00	8.58	8.0	10.0	6.0	54.0	480
M16	2.0	12.35	10.00	10.00	11.86	12.0	14.0	8.0	134	1190
M20	2.5	16.00	14.00	14.00	14.83	16.0	18.0	10.0	237	2100
M24	3.0	18.95	16.00	16.00	17.80	20.0	20.0	12.0	440	3860

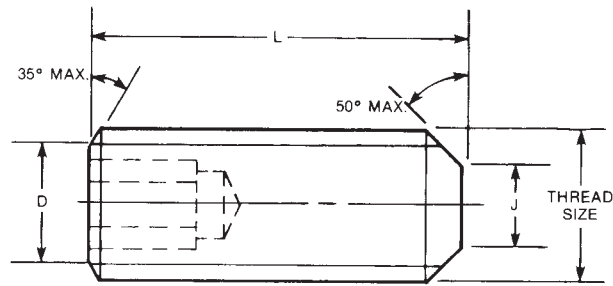
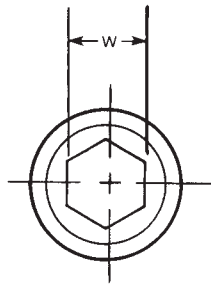
All dimensions in millimeters.

\*Not applicable to screws with a length equal to or less than the diameter. See Note, page 1.

# METRIC SOCKET SET SCREW

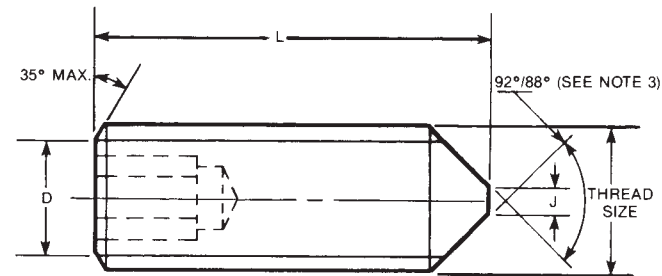
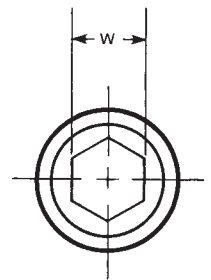
Flat Point, Cone Point, Dog Point Styles ■ Dimensions

REF. ISO 4026



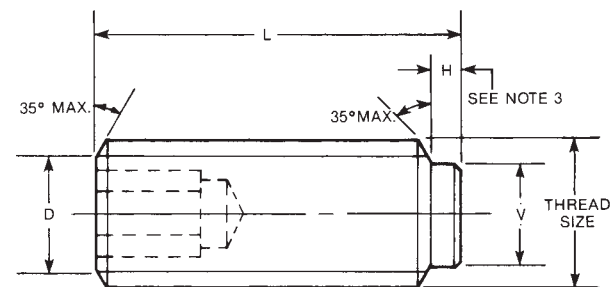
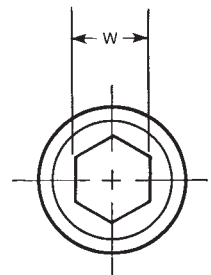
FLAT POINT

REF. ISO 4027



CONE POINT

REF. ISO 4028  
ISO 7435



DOG POINT

## DIMENSIONS

nom. thread size	pitch	D max.	flat point		cone point		dog point			
			J max.	L min. preferred	J max.	L min. preferred	H nom.		L min. preferred	V max.
							short lgth.	long lgth.		
M3	0.5	2.10	2.0	3.0	0.3	4.0	0.75	1.5	5.0	2.00
M4	0.7	2.75	2.5	3.0	0.4	4.0	1.00	2.0	5.0	2.50
M5	0.8	3.70	3.5	4.0	0.5	5.0	1.25	2.5	6.0	3.50
M6	1.00	4.25	4.0	4.0	1.5	6.0	1.50	3.0	6.0	4.00
M8	1.25	6.00	5.5	5.0	2.0	6.0	2.00	4.0	8.0	5.50
M10	1.50	7.40	7.0	6.0	2.5	8.0	2.50	5.0	8.0	7.00
M12	1.75	8.60	8.5	8.0	3.0	10.0	3.00	6.0	12.0	8.50
M16	2.00	12.35	12.0	12.0	4.0	14.0	4.00	8.0	16.0	12.00
M20	2.50	16.00	15.0	14.0	6.0	18.0	5.00	10.0	20.0	15.00
M24	3.00	18.95	18.0	20.0	8.0	20.0	6.00	12.0	22.0	18.00