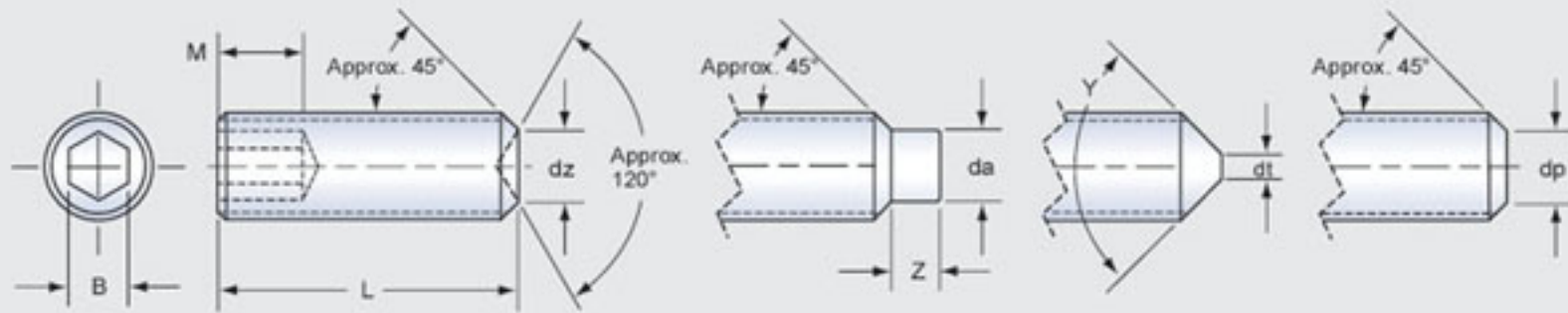


- Dimensions
- Mechanical Properties
- Application Data

ISO 4026 / 4027 / 4028 / 4029 : Hexagon Socket Set Screws



Dimensions (mm)

Nom. Size	M ( Flat Point )		M ( Cup Point )		M ( Cone Point )		M ( Dog Point )		Z
	Length	min.	Length	min.	Length	min.	Length	min.	
M3	$L \leq 3$	1.20	$L \leq 4$	1.20	$L \leq 4$	1.20	$L \leq 5$	1.20	0.75 - 1.00
	$L > 3$	2.00	$L > 4$	2.00	$L > 4$	2.00	$L > 5$	2.00	1.50 - 1.75
M4	$L \leq 4$	1.50	$L \leq 5$	1.50	$L \leq 5$	1.50	$L \leq 6$	1.50	1.00 - 1.25
	$L > 4$	2.50	$L > 5$	2.50	$L > 5$	2.50	$L > 6$	2.50	2.00 - 2.25
M5	$L \leq 5$	2.00	$L \leq 5$	2.00	$L \leq 6$	2.00	$L \leq 6$	2.00	1.25 - 1.50
	$L > 5$	3.00	$L > 5$	3.00	$L > 6$	3.00	$L > 6$	3.00	2.50 - 2.75
M6	$L \leq 6$	2.00	$L \leq 6$	2.00	$L \leq 6$	2.00	$L \leq 8$	2.00	1.50 - 1.75
	$L > 6$	3.50	$L > 6$	3.50	$L > 6$	3.50	$L > 8$	3.50	3.00 - 3.25
M8	$L \leq 8$	3.00	$L \leq 8$	3.00	$L \leq 8$	3.00	$L \leq 10$	3.00	2.00 - 2.25
	$L > 8$	5.00	$L > 8$	5.00	$L > 8$	5.00	$L > 10$	5.00	4.00 - 4.30
M10	$L \leq 10$	4.00	$L \leq 10$	4.00	$L \leq 10$	4.00	$L \leq 12$	4.00	2.50 - 2.75
	$L > 10$	6.00	$L > 10$	6.00	$L > 10$	6.00	$L > 12$	6.00	5.00 - 5.30
M12	$L \leq 12$	4.80	$L \leq 12$	4.80	$L \leq 12$	4.80	$L \leq 16$	4.80	3.00 - 3.25
	$L > 12$	8.00	$L > 12$	8.00	$L > 12$	8.00	$L > 16$	8.00	6.00 - 6.30
M14	$L \leq 14$	5.60	$L \leq 14$	5.60	$L \leq 14$	5.60	$L \leq 20$	5.60	3.50 - 3.80
	$L > 14$	9.00	$L > 14$	9.00	$L > 14$	9.00	$L > 20$	9.00	7.00 - 7.36
M16	$L \leq 16$	6.40	$L \leq 16$	6.40	$L \leq 16$	6.40	$L \leq 20$	6.40	4.00 - 4.30
	$L > 16$	10.00	$L > 16$	10.00	$L > 16$	10.00	$L > 20$	10.00	8.00 - 8.36
M18	$L \leq 18$	7.20	$L \leq 18$	7.20	$L \leq 18$	7.20	$L \leq 25$	7.20	4.50 - 4.80
	$L > 18$	11.00	$L > 18$	11.00	$L > 18$	11.00	$L > 25$	11.00	9.00 - 9.86
M20	$L \leq 20$	8.00	$L \leq 20$	8.00	$L \leq 20$	8.00	$L \leq 25$	8.00	5.00 - 5.30
	$L > 20$	12.00	$L > 20$	12.00	$L > 20$	12.00	$L > 25$	12.00	10.00 - 10.36

Nom. Size	dp	dz	df max.	da	B	Y (Note 3)	Proof Torque NM, min.
M3	1.75 - 2.00	1.15 - 1.40	0.75	1.75 - 2.00	1.520 - 1.580	4	0.90
M4	2.25 - 2.50	1.75 - 2.00	1.00	2.25 - 2.50	2.020 - 2.080	5	2.50
M5	3.20 - 3.50	2.25 - 2.50	1.25	3.20 - 3.50	2.520 - 2.580	6	5.00
M6	3.70 - 4.00	2.75 - 3.00	1.50	3.70 - 4.00	3.020 - 3.080	6	8.50
M8	5.20 - 5.50	4.70 - 5.00	2.00	5.20 - 5.50	4.020 - 4.095	8	20.0
M10	6.64 - 7.00	5.70 - 6.00	2.50	6.64 - 7.00	5.020 - 5.140	10	40.0
M12	8.14 - 8.50	7.64 - 8.00	3.00	8.14 - 8.50	6.020 - 6.140	12	65.0
M14	9.64 - 10.00	8.64 - 9.00	4.00	9.64 - 10.00	6.020 - 6.140	14	65.0
M16	11.57 - 12.00	9.64 - 10.00	4.00	11.57 - 12.00	8.025 - 8.175	16	160
M18	12.57 - 13.00	11.57 - 12.00	5.00	12.57 - 13.00	10.025 - 10.175	18	310
M20	14.57 - 15.00	13.57 - 14.00	5.00	14.57 - 15.00	10.025 - 10.175	20	310

**Notes :**

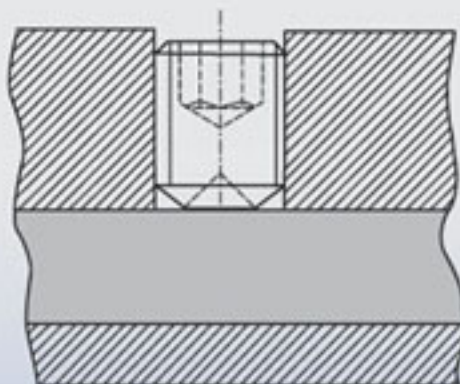
1. Thread Class : 6g for property class 45H.
2. Length Tolerance : See Table 2, Page 7.
3. Cone point angle 120 deg for these nominal lengths or shorter ; 90 deg for longer nominal lengths.
4. Working Temperature : -50°C ~ +300°C

**Mechanical Properties**

Property Class	45H
Hardness ( HRC )	45-53
Decarburization and Carburization (See Page 17 )	E = 3/4H1

**■ Typical Application Fixture**

Socket set screws are designed to be used where permanent or adjustable locations of components on shafts is required. There are numerous end point designs to fit many applications.



**■ Typical Torque Test Fixture**

1. Torque wrench
2. Set screw under test
3. Test block: hardness min. 50 HRC, tolerance class of the internal thread 5H
4. Backing screw: hardness 450 HV to 570 HV

