



Gaging of External Hexalobular Driving Feature

1 Introduction

Note: Nothing in this standard supercedes applicable laws and regulations.

Note: In the event of conflict between the English and domestic language, the English language shall take precedence.

1.1 Purpose. This standard specifies recommended methods for gaging of external hexalobular driving feature. This standard is based on DIN 34801, Annex A. This standard is to be utilized to assure dimensional compliance of hexalobular bolt head styles.

1.2 Applicability. As an alternative head style where standard hex style head may not be the appropriate drive feature or if for esthetic purposes to drive alternative styling.

1.3 Remarks. This standard is available as an alternate head style over the GM fastening strategy to utilize standard hex type head sizes, i.e. 10 mm, 13 mm, 15 mm, 18 mm, 21 mm, 24 mm, etc. Across Flats. The hex strategy is utilized for tool interchangeability between bolt and nut product of same diameter.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

DIN 34801

2.2 GM Standards/Specifications.

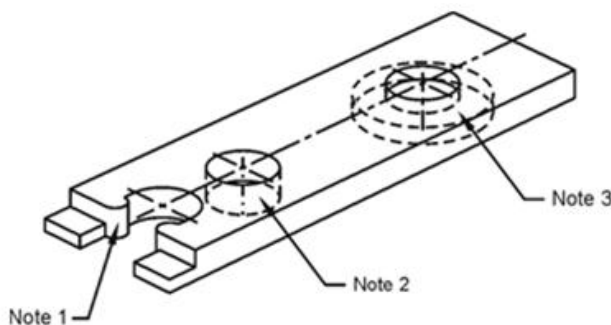
GMW3059

2.3 Additional References.

3 Requirements

3.1 Gaging of External Hexalobular Driving Feature. The external hexalobular driving feature is gaged with Go and No-Go gages per Figure 1 and dimensions per Figure 2 and Table 1.

Figure 1: External Hexalobular Driving Feature Gage

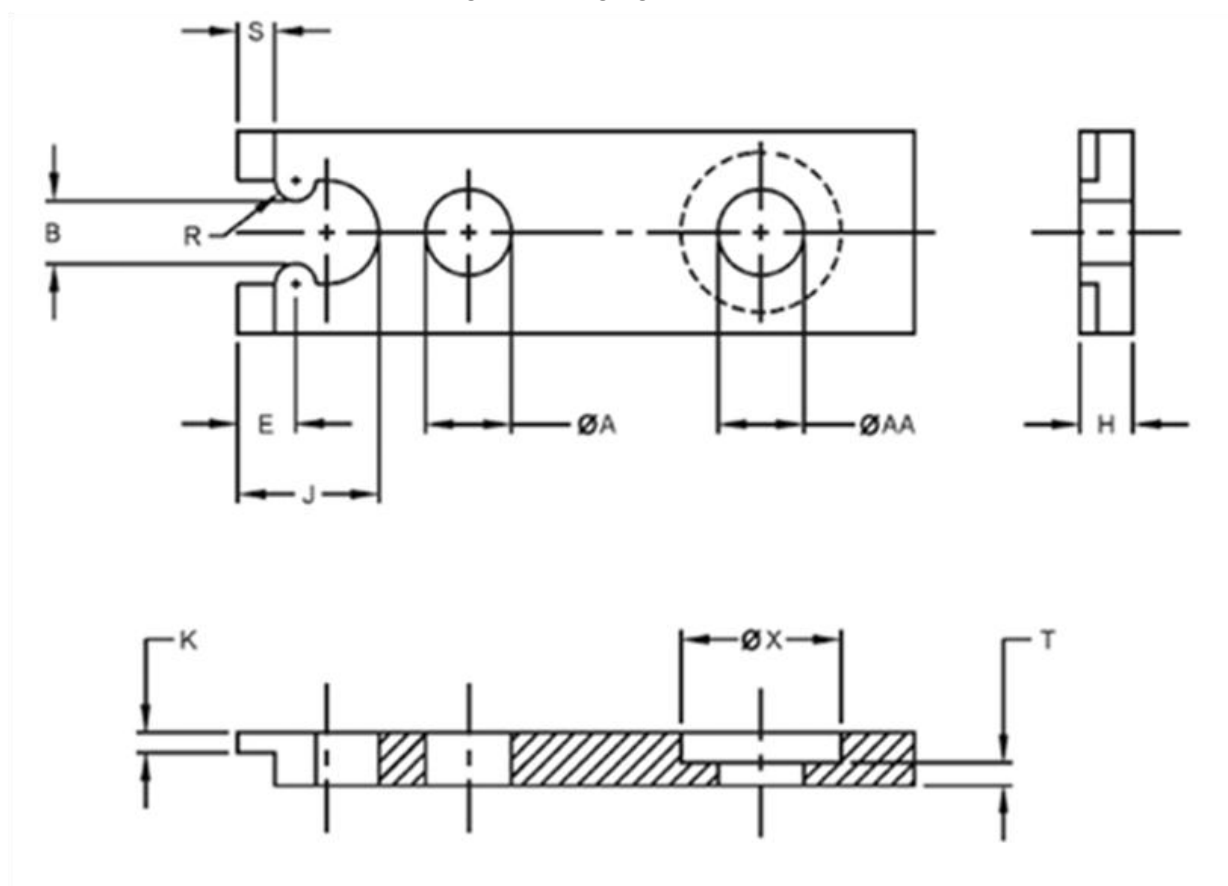


Note 1: Gage A.

Note 2: Gage B.

Note 3: Gage C.

Figure 2: Gaging Dimensions



Note: Ø = Diameter

Table 1: Gaging Dimensions ^{Note 1}

Size of External Driving Feature No.	A	AA	B	K	T	R	S	X	J	E	H
	+0.008 -0.003	+0.008 -0.003	+0.008 -0.003	+0.127 -0.000	+0.000 -0.025	+0.000 -0.025	+0.38 -0.38	+0.127 -0.127	+0.25 -0.25	+0.25 -0.00	+0.38 -0.38
8	7.366	6.883	5.258	1.448	1.600	1.613	3.02	16.14	11.61	4.75	6.35
10	9.271	8.839	6.756	1.829	2.007	2.324	3.91	17.12	15.72	6.35	6.35
12	11.024	10.312	7.874	2.286	2.540	2.400	4.62	20.44	17.27	7.14	6.35
14	12.751	11.862	9.169	3.023	2.692	2.629	5.18	24.98	19.30	7.92	9.53
18	16.485	15.291	11.836	3.734	3.658	3.366	6.05	33.05	24.05	9.53	9.53
20	18.263	16.891	13.157	4.089	4.115	3.632	7.37	35.43	27.00	11.10	9.53
24	21.946	20.396	15.697	5.639	5.359	4.724	9.50	38.77	33.99	14.27	9.53
28	25.502	23.724	18.263	6.934	6.325	5.461	10.36	43.61	38.68	15.88	12.70
32	29.007	26.670	21.311	8.026	6.883	5.715	11.68	48.26	42.44	17.45	12.70

Note 1: All dimensions are in millimeters (mm).