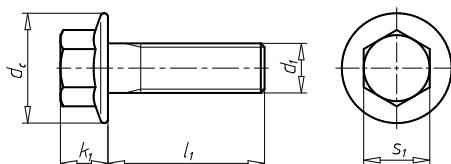


HEXAGONAL BOLT WITH FLANGE IN ACCORDANCE WITH MBN STANDARD



Illustration only



Standards	MBN 10105
Material	Steel
Property class	10.9
Surface	Flake zinc silver
RoHS-compliant	Yes
Head type	Hexagon head with flange
Drive type	Outer hexagon
Thread type	Metric thread
Product class	A
Area of application	Utility vehicle construction

Notice

Flange head screws reduce the risk of pretension loss caused by setting of contact surfaces. The surface pressure generated under the screw head during tightening is low compared to conventional hexagon heads (without flange), as the force is distributed over a larger contact surface.

Advantage:

- Less setting required due to fewer parts to be connected compared to connections using washers.
- The concave washer pressing against the contact surface increases the elasticity of the connection so that the setting/creeping movements that occur are counteracted and pretension loss is generally prevented

Matching nuts

Hexagon nut with flange and clamping piece MBN 13032 Steel 10, zinc flake coating, item number: 026391...

MBN 10105, steel 10.9, with fine thread from M12. Silver-coloured zinc flake coating in accordance with DBL 9440.40 (form C \triangleq partial thread).

Surface protection

In accordance with DBL 9440.40 (silver-coloured zinc flake coating with lubrication integrated in seal, Cr(VI)-free) > VDA 235 - 104.42

Corrosion resistance

- \leq M8 - approx. 480 hrs, no base metal corrosion acc. to DIN EN ISO 9227 - NSS
- \geq M10 - approx. 720 hrs, no base metal corrosion acc. to DIN EN ISO 9227 - NSS

The specified corrosion resistances apply for the corrosion tests according to DIN EN ISO 9227-NSS (salt spray mist testing), at the earliest 24 h after coating in the „as coated“ state, i.e. before sorting, packaging, transporting and/or assembly. These values can be reduced through inevitable handling and assembly processes.

A transfer of the corrosion resistances from the salt spray mist test to real assembly and operating conditions is not possible in the majority of cases. When designing a connection both the combined materials and if necessary coatings as well as the environmental conditions during operation must be considered by the designer in the selection of a suitable corrosion protection coating.

Friction coefficient

$$\mu_{\text{tot}} = 0.09 - 0.14 \text{ (VDA 235 - 101)}$$