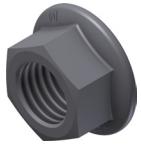
HDG ANTI VIBRATION

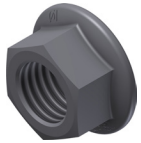
ØS HDG Anti Vibration flange nuts



Type	Description	Finish	Spanner size (mm)	Recommended torque (Nm)	Maximum torque (Nm)	Comment
M6	Flange Nuts S-M NU-FL-M6	A4	10	8	10	A4 is used for M6
M10	Flange Nuts S-M NU-FL-M10	HDG	15	55	55	
M12	Flange Nuts S-M NU-FL-M12	HDG	18	95	95	

SS ANTI VIBRATION

ØS SS (A4) Anti Vibration flange nuts



Type	Description	Finish	Spanner size (mm)	Recommended torque (Nm)	Maximum torque (Nm)	Comment
M6	Flange Nuts S-M NU-FL-M6	A4	10	8	10	
M8	Flange Nuts S-M NU-FL-M8	A4	13	20	23	
M10	Flange Nuts S-M NU-FL-M10	A4	15	40	45	
M12	Flange Nuts S-M NU-FL-M12	A4	18	80	85	

STANDARD

DIN 934 Standard nuts
ØS UNO Channel nuts

Type	Description	Finish	Spanner size (mm)	Recommended torque (Nm)	Maximum torque (Nm)	Comment
M6	S-M NU-M6	A4/HDG	10	6-7	7	
M8	S-M NU-M8	A4/HDG	13	15-17	17	
M10	S-M NU-M10	A4/HDG	17	30-33	33	
M12	S-M NU-M12	A4/HDG	19	60-62	62	

NOTES FOR USE

Grade
The data shown is for Øglænd System bolt & nut fasteners only in A4-70 and Class 8.8 for SS/HDG respectively with corresponding material fastener parts where not specified.

Application & conditions
Our recommendation is based only on fastening Øglænd System products in corresponding material, without additional washers or additional lubricants.

Pre-tension
Bolted connections rely on the pre-tension or ”stretch” of the bolt to maintain the clamping force between the parts when tightened. There are several factors which can reduce this pre-tension including but not limited to; embeddment, thermal expansion and contraction, shock and vibration.

Anti Vibration
Øglænd System anti-vibration flange nuts in A4 Stainless steel prevent loosening from vibration when the clamping force is retained. Inspection and maintenance programs must be considered where other sources of loosening may be present, particularly when clamping non-metallic elements.

Fastening non-metallic materials
When fastening non-metallic materials such as composites or polymers with steel bolts, the hardness of the material being fastened may limit the pre-tension which can be achieved by tightening the bolt. Material creep and relaxation over time may also reduce the pre-tension further.

Depending on the material specification, it may be necessary to reduce the tightening torque from that shown in the table above to prevent damage to the base material. An additional level of protection to prevent loosening must also therefore be considered depending on the application together with consideration of a maintenance and inspection program.