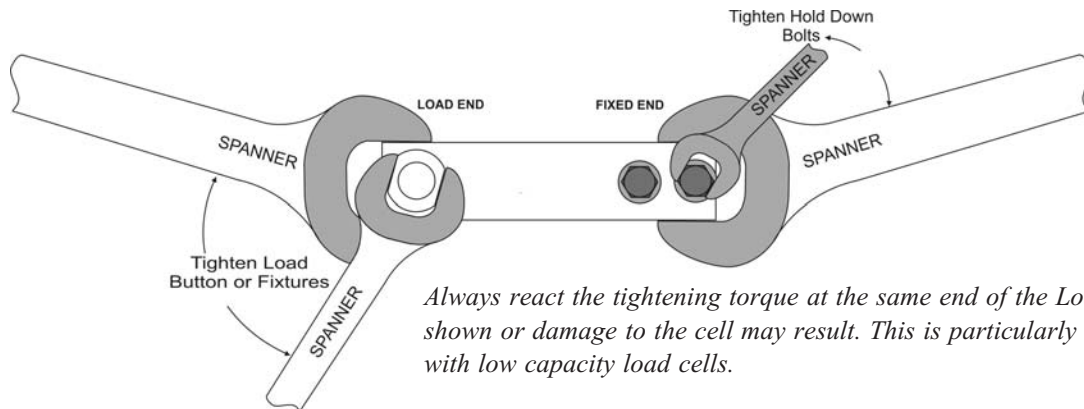


This Installation Note contains recommendations for fixing GK2106 Shear Beam Load Cells to Mounting Structures using two bolts at the mounting locations in the cell. The note applies whether the cells are mounted on base plates or mounted on part of a structure.



WARNING - THE INFORMATION BELOW IS A GUIDE ONLY. YOU SHOULD VERIFY THE INFORMATION AND MAKE SURE IT IS APPROPRIATE FOR YOUR INSTALLATION. ALWAYS USE A PLAIN WASHER AND SINGLE COIL SPRING WASHER WITH THE MOUNTING BOLTS.

USING LOWER GRADE BOLTS, LESS THREAD ENGAGEMENT, LOWER STRENGTH BASE PLATE MATERIALS OR HIGHER TORQUE VALUES MAY RESULT IN BROKEN BOLTS OR STRIPPED THREADS OCCURRING DURING INSTALLATION OR SERVICE.

Proof Stress for bolts is:- Grade 8.8 - 590MPa; grade 10.9 - 830MPa and grade 12.9 Cap Screws - 970MPa. The clamping forces below are calculated using the 150% overload rating of the load cells though for low capacity cells a clamping force greater than this has been recommended so as to produce "reasonable" tightening torques. Minimum thread engagement is generally recommended as 1.5 x Bolt diameter, however where the forces are low compared to the strength of the materials used, a shorter thread engagement is acceptable.

GK2106 Model Capacity kg	Size and MINIMUM Bolt Grade	Torque Bolts to kg-m	Clamping Force per Bolt at 0.20 K Factor kg	Minimum Thread Engagement in Mild Steel of 250MPa Yield Strength mm
100	M6x1P / Grade 8.8	0.5	400	8
250-500	M10x1.5P / Grade 8.8	1.2	600	8
1000	M10x1.5P / Grade 8.8	2.4	1200	10