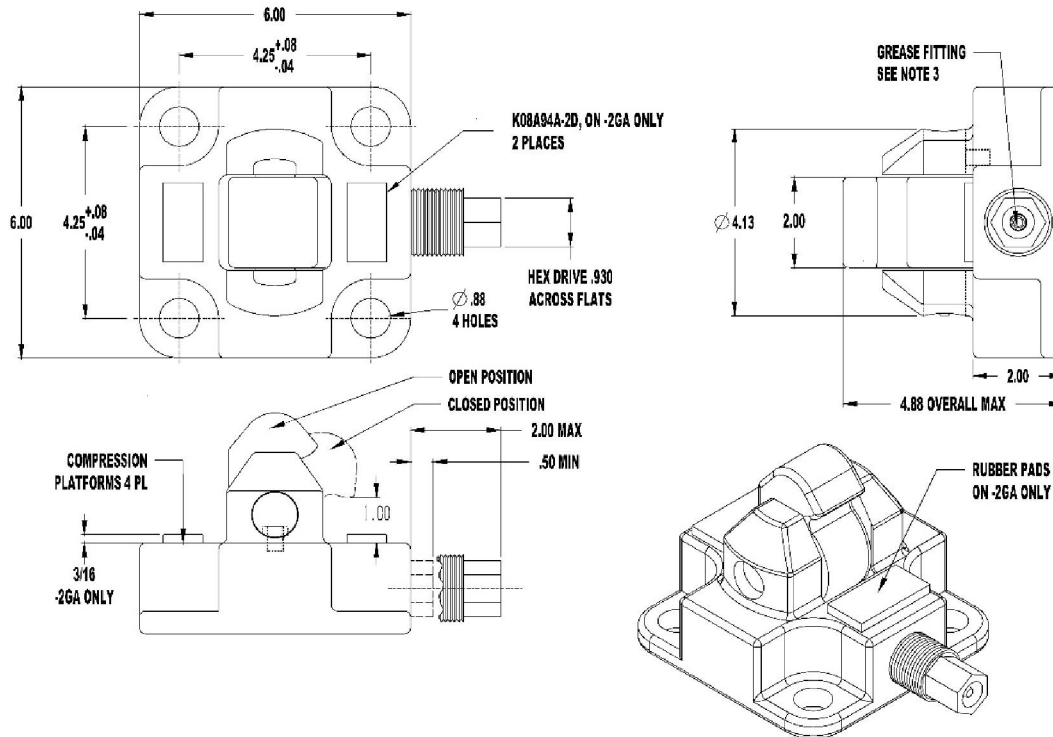


HIGH STRENGTH VI-SO VERTICAL CLAMP CONNECTOR (K08A00D)

Cage Code: 65059 | Drawing No: SK08A00D | Revision: D | Sheet: 1 of 2

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES



* NOTE THAT STANDARD STEEL CORNER FITTINGS USUALLY HAVE MECHANICAL PROPERTIES AT YIELD POINT OF 40,000 TO 45,000 PSI. AT ABOUT A 50,000 LB. LOADING, THE CLAMP ARM BEARING AREA WILL START TO LOCALLY DEFORM THE STANDARD STEEL CORNER. IF MORE STRENGTH IS REQUIRED, A HIGHER STRENGTH CORNER IS REQUIRED.

NOTES:

1. THE GRIP AND FORCE EXERTED BY THE CLAMP ARM IS VARIABLE BY ROTATING THE DRIVE STUD. MAX LOAD ON THE HEX DRIVE IS 50 FT/LB
2. MINIMUM FAILURE LOAD FOR ONE VI-SO
 - 83,500 LB. TRANSVERSE SHEAR
 - 50,100 LB. LONGITUDINAL SHEAR
 - 460,000 LB. COMPRESSION
 - 106,880 LB. TENSION (NOT CONSIDERING CORNER FITTING LIMIT)
 MAXIMUM ALLOWABLE LOAD OR SAFE WORKING LOAD
 - 64,000 LB.* RESTRAINT AGAINST UPWARD FORCE
 - 50,000 LB. TRANSVERSE SHEAR
 - 30,000 LB. LONGITUDINAL SHEAR
 - 275,450 LB. COMPRESSION
3. IF USING AS A LIFTING PRODUCT, PROOF TESTING IS REQUIRED, MUST BE USED IN PAIRS AND RIGIDLY HELD
 - WLL 32,000 LB.* DESIGN CATEGORY A
 - WLL 21,333 LB.* DESIGN CATEGORY B
4. ONE GREASE FITTING ALLOWS FOR EASY LUBRICATION, RECOMMENDED GREASE: RED LITHIUM HIGH TEMPERATURE
5. DIMENSIONS WITHOUT TOLERANCE ARE SUBJECT TO MANUFACTURING TOLERANCES

To avoid lifter failure, potential death and property damage, never exceed WLL (Working Load Limit).

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HIGH STRENGTH VI-SO VERTICAL CLAMP CONNECTOR (K08A00D)

Cage Code: 65059 | Drawing No: SK08A00D | Revision: D | Sheet: 2 of 2

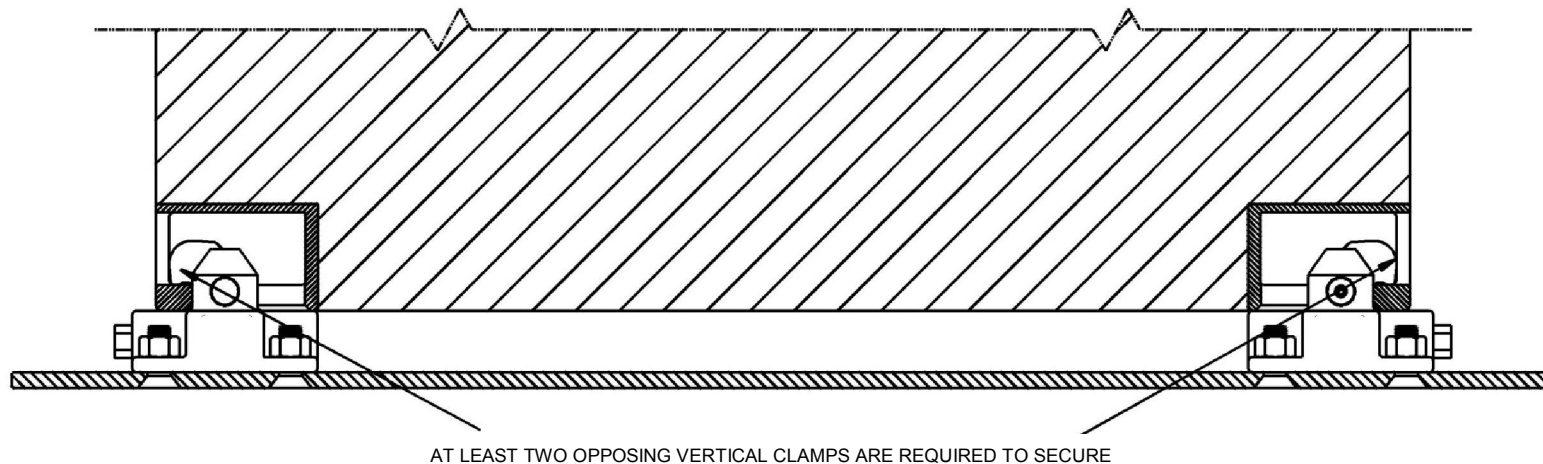
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES
USE INFORMATION:

A. USE - FOR A SLACK-FREE, CLAMP-DOWN CONNECTION OF EACH CORNER OF AN ISO 668 TYPE CONTAINER TO A DECK OR OTHER STRUCTURE, LOWER THE CONTAINER SO THAT THE OPEN CONNECTOR ENTERS THE LARGE BOTTOM APERTURE OF EACH ISO 1161 STANDARD CORNER FITTING. THE CLAMP ARM BEARS DOWN ON THE INSIDE OF THE BOTTOM WALL WHEN THE DRIVE STUD IS SCREWED IN.

B. USE CAP SCREWS AND LOCK NUTS TO ASSEMBLE THE CONNECTOR TO A SUITABLE RECEIVING STRUCTURE. LOCATE CONNECTORS PER "MALE FITTING INSTRUCTIONS" ON TANDEMLOC DATA SHEET DF-72047-16 (SHEET 2) FOR STANDARD SIZED STRUCTURES. FOR NON-STANDARD SIZES USE THE PRINCIPLES IMPLIED ON THIS SHEET TO DETERMINE YOUR LOCATION.

C. THE VI-SO IS TO BE BOLTED TO THE DESIRED STRUCTURE USING FOUR 3/4" SAE GRADE 8 STEEL CAP SCREWS. SPECIAL FLAT HEAD CAP SCREWS AND LOCKNUTS ARE AVAILABLE WITH HEX SOCKET AND SLOTTED END. THIS PERMITS THE CAP SCREW TO BE HELD FROM THE THREADED END WHILE TURNING THE LOCK NUT (USEFUL WHEN THE HEAD END IS NOT ACCESSABLE)

D. TO SECURE AN ISO CONTAINER OR SIMILAR STRUCTURE FIRST OPEN THE CONNECTOR FULLY BY TURNING THE DRIVE STUD COUNTERCLOCKWISE UNTIL IT IS WITHIN (SHEET 1) DIMENSION. LOWER CONTAINER SO THAT THE UPWARD PROJECTING PORTIONS OF THE CONNECTOR ENTER THE LARGE APERTURES IN THE BASES OF THE CORNER FITTINGS. TURN THE DRIVE STUD CLOCKWISE TO SECURE. 50 ft./lb. OF TORQUE IN THE DRIVE STUD WHEN METAL TO METAL CONTACT IS ACHIEVED IS RECOMMENDED. EXCESSIVE TORQUE PRE-LOADS THE CLAMP ARM, RESULTING IN A REDUCTION OF ITS MAXIMUM STRENGTH.



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