



MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

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Control Rod Installation Instructions for Mason Safeflex Connectors

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DRAWING NO. WA-1349

Control rods are recommended on all high pressure Safeflex connectors. Refer to the Safeflex submittal, Safeflex catalog bulletin and/or installation instructions provided with the Safeflex connector for specific instructions on the flexible connector installation.

Where control rods have been specified, detailed or are otherwise required please follow these additional instructions:

1. Install control rod gusset plates on the mating pipe flanges. Gussets are designed to be used with straight sides facing out. Flange bolts must be torqued per the Safeflex connector installation instructions.
2. Include the large diameter neoprene washer and steel washer on the upstream end of the rods, and steel washer only on the downstream end of the rods.
3. If the control rods are specified or detailed to prevent axial elongation of the connector the connector should be installed at its published face to face length. Control rod nuts should be finger tight against the steel washers on the gusset plates and locked into position with the lock nuts.
4. If the control rods are specified or detailed as an added precaution to prevent over-extension the connector should be installed at its pressure balance length. Control rods should be installed with nuts backed away a distance equal to the allowable overall dimension of the connector including allowable extension. This will prevent over-extension of the connector.
5. If compression sleeves are specified or detailed they should be sized to prevent over-compression of the connector. Compression sleeves cut to the correct length are available from Mason.
6. Control rods can prevent over-extension of the connector and restrain axial pressure thrust. Do not utilize control rods to restrain external thermal forces which can far exceed pressure thrust.