

KPG Guide Installation Instructions

KPG Guides are intended to “align” and “stabilize” a riser or in some cases a horizontal run of piping at a point along its length. These components offer lateral cushioning but allow free movement along their axis to accommodate expansion or contraction in the piping system. Their capacity on a long-term basis (in the lateral plane only) equals their listed rating.

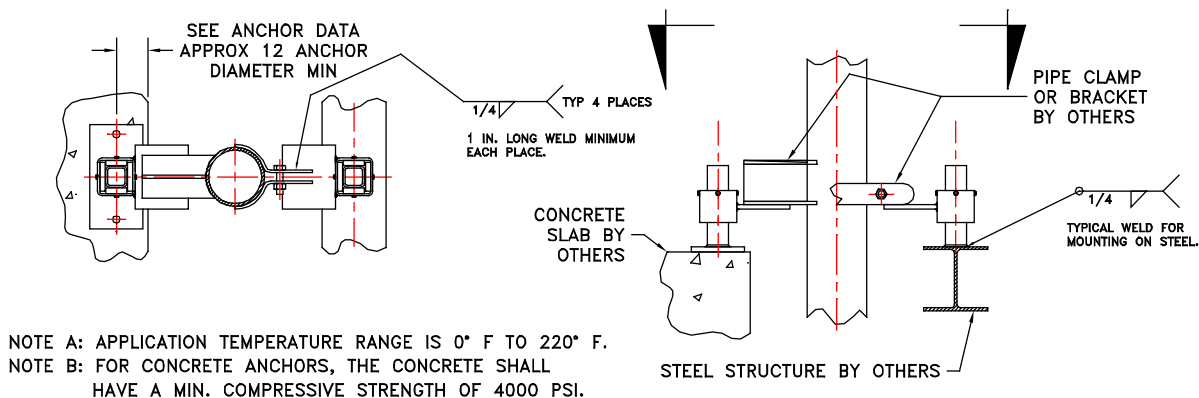
Listed KPG ratings assume through bolts or welded structural connections. Ratings are reduced significantly if bolted to concrete. On concrete, the addition of oversized baseplates will increase the KPG’s installed capacity and depending on the baseplate size, can bring it up to the full rating. (Caution, the distance between an anchor bolt and the nearest slab edge must exceed the minimum edge distance values appropriate to the anchor bolt used (approx 12 anchor diameters). If short, the bolt capacity drops and the resulting KPG capacity drops as well. For Risers involving anchorage to concrete, a perimeter structural steel frame around the riser well that acts as an interface between the KPG assemblies and the concrete anchorage components can frequently be beneficial. If welding in place, welds should be made in a series of small passes using proper procedures to protect the internal rubber elements in the Guide itself.

KPG Guides are intended to be connected to piping using heavy duty riser clamps or welded brackets. These must be positively attached to the pipe with welds or clamped in a fashion that will ensure that the clamp will not slip on the pipe. See also the sketch below.

KPG Guides in riser applications should be used in pairs with one on either side of the riser pipe to balance the load. When used on horizontal pipe runs, a single guide may be used, but it should be mounted horizontally to match the pipe.

During installation, normal procedures are that the KPG Guides be connected to the structure prior to making final alignment adjustments in the riser clamp. The Sliding element of the guide is normally located at approximately the mid-travel position. However, if the pipe is expected to grow more than it shrinks (or vice versa), it can be offset to allow the full range of growth/shrinkage to be accommodated over the active travel range of the guide

Once located and properly anchored to the structure the KPG sliding element mounting plate can be welded to the riser clamp or bracket that is fitted to the pipe. When welding, the weld should be done in a series of small passes allowing adequate time in between for cooling to protect the internal rubber elements in the guide itself.



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