



# 5 REASONS TO SPECIFY NO-HUB FITTING RESTRAINTS



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**To determine whether or not a particular no-hub joint should be fitted with a fitting restraint, it is recommended that you consider the following:**

<http://holdrite.com/products/no-hub-fitting-restraints/>

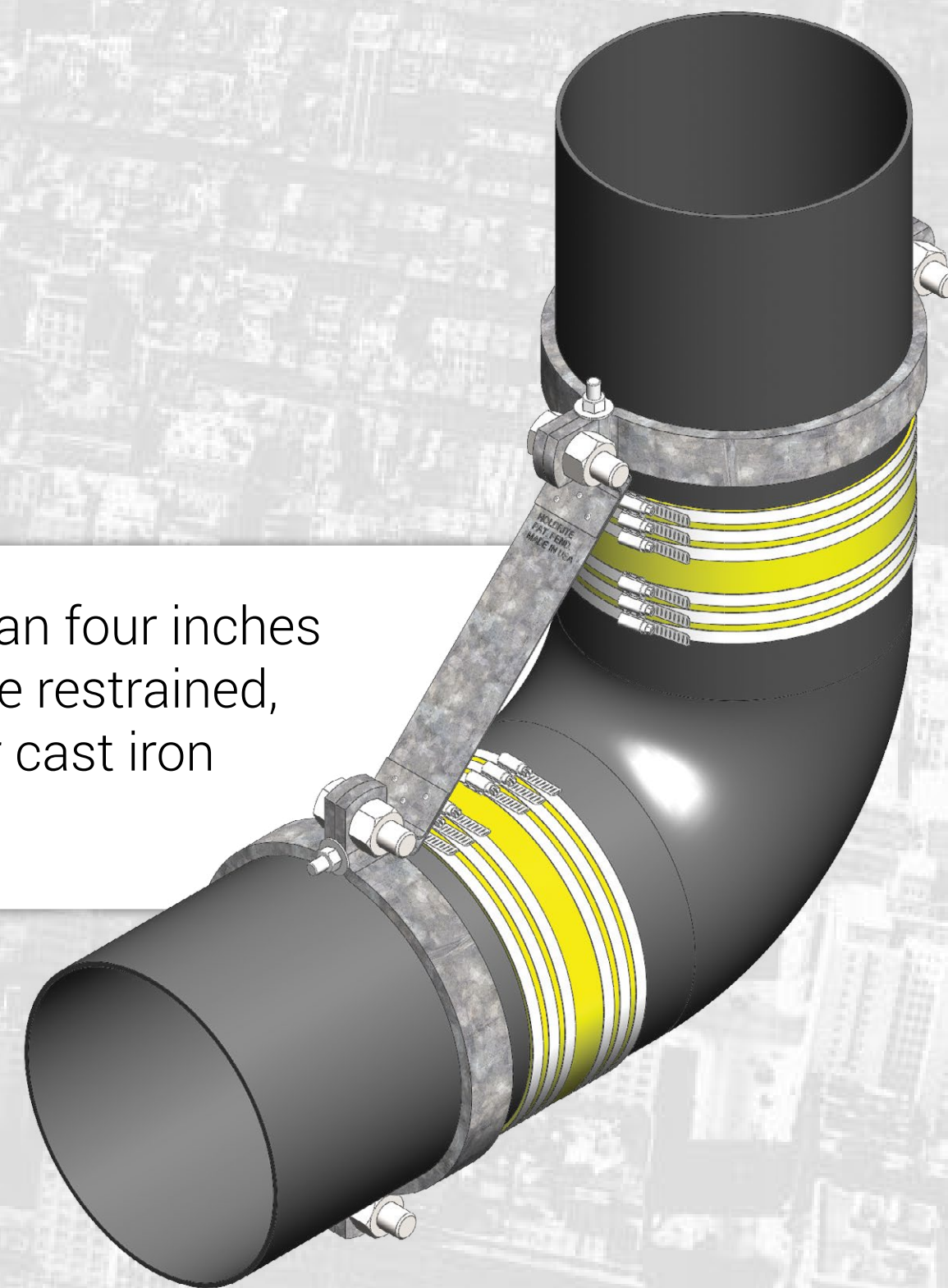


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## PIPE SIZE

If the pipe is greater than four inches in diameter, it should be restrained, per CISPI and all major cast iron fitting manufacturers.



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## HEAD PRESSURE CONSIDERATIONS

Because all pipes and fittings within a drain, waste and vent (DWV) system must be tested to a minimum of 10 feet of water head pressure (4.34 PSI), DWV system components are all designed to accommodate this amount of pressure. If you believe that during the system's life it might encounter thrust forces greater than this, such as during the testing phase of a job or when blockage may occur, fitting restraints should be installed.

Experience demonstrates that 10 feet of head pressure is far too low of a bar to set. Given the fact that pipe failure can be catastrophic, this is woefully insufficient. It is recommended that your design focus should be on creating a system that restrains pipes and fittings against at least a 40-foot column of water – not just a 10-foot column of water. This provides a comfortable safety-factor and peace of mind.



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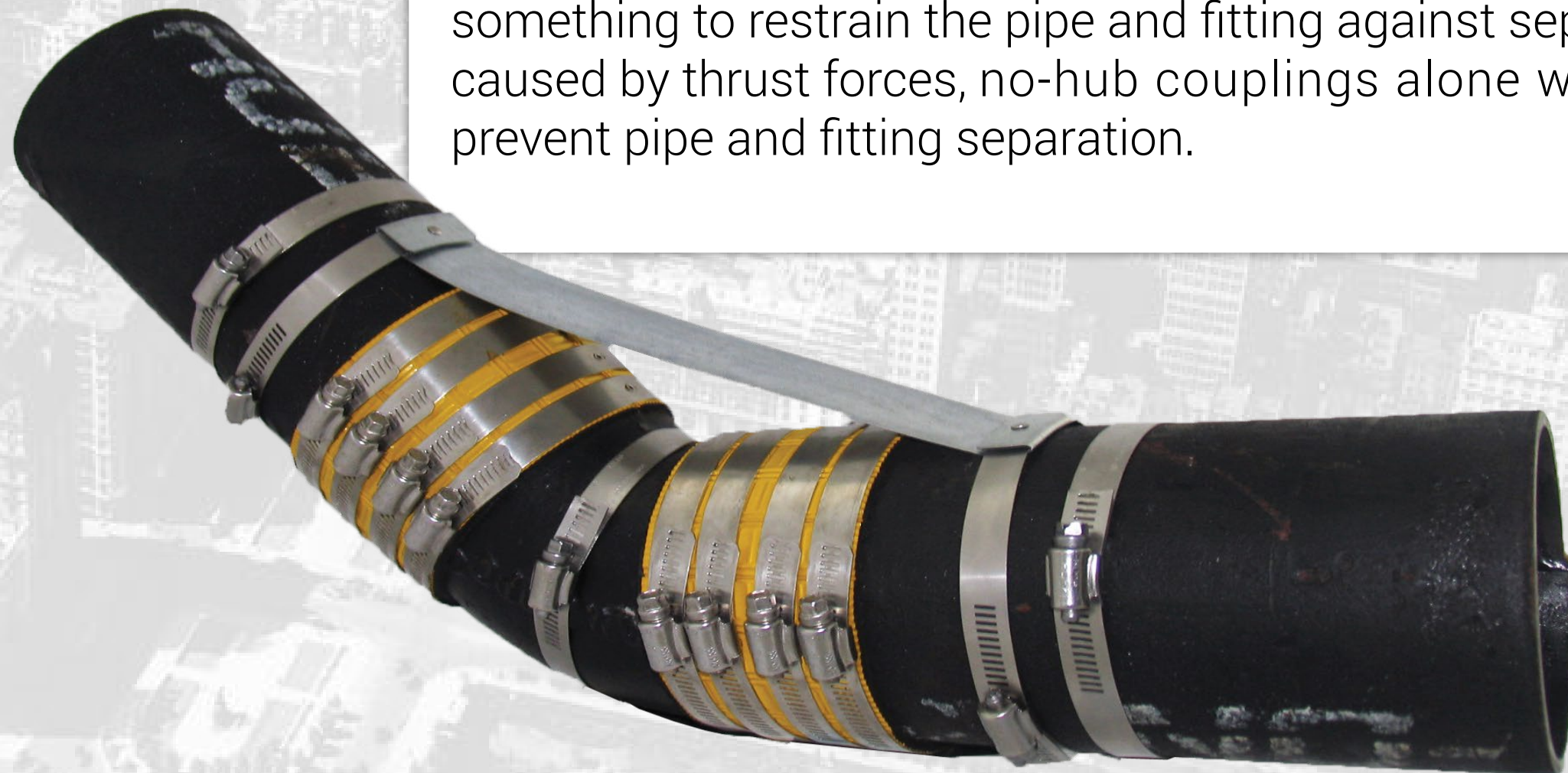


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## USE OF COUPLINGS AS FITTING RESTRAINTS?

No-hub couplings by themselves are not designed to serve as restraints, even with only 10 feet of head pressure.

Couplings are always the weak point in the system. Without something to restrain the pipe and fitting against separation caused by thrust forces, no-hub couplings alone will not prevent pipe and fitting separation.



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# NUMBER OF STORIES

While pipe restraints may not be necessary on single-story projects, you need to consider them for any project that is two stories or more, where the potential to exceed 10-foot of head pressure exists.



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## SEISMIC APPLICATIONS

In seismic (earthquake) applications, pipe and fitting restraints should be used in conjunction with other types of restraint methods, such as sway bracing, as prescribed by a seismic engineer.



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## **FOR MORE INFORMATION VISIT:**

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