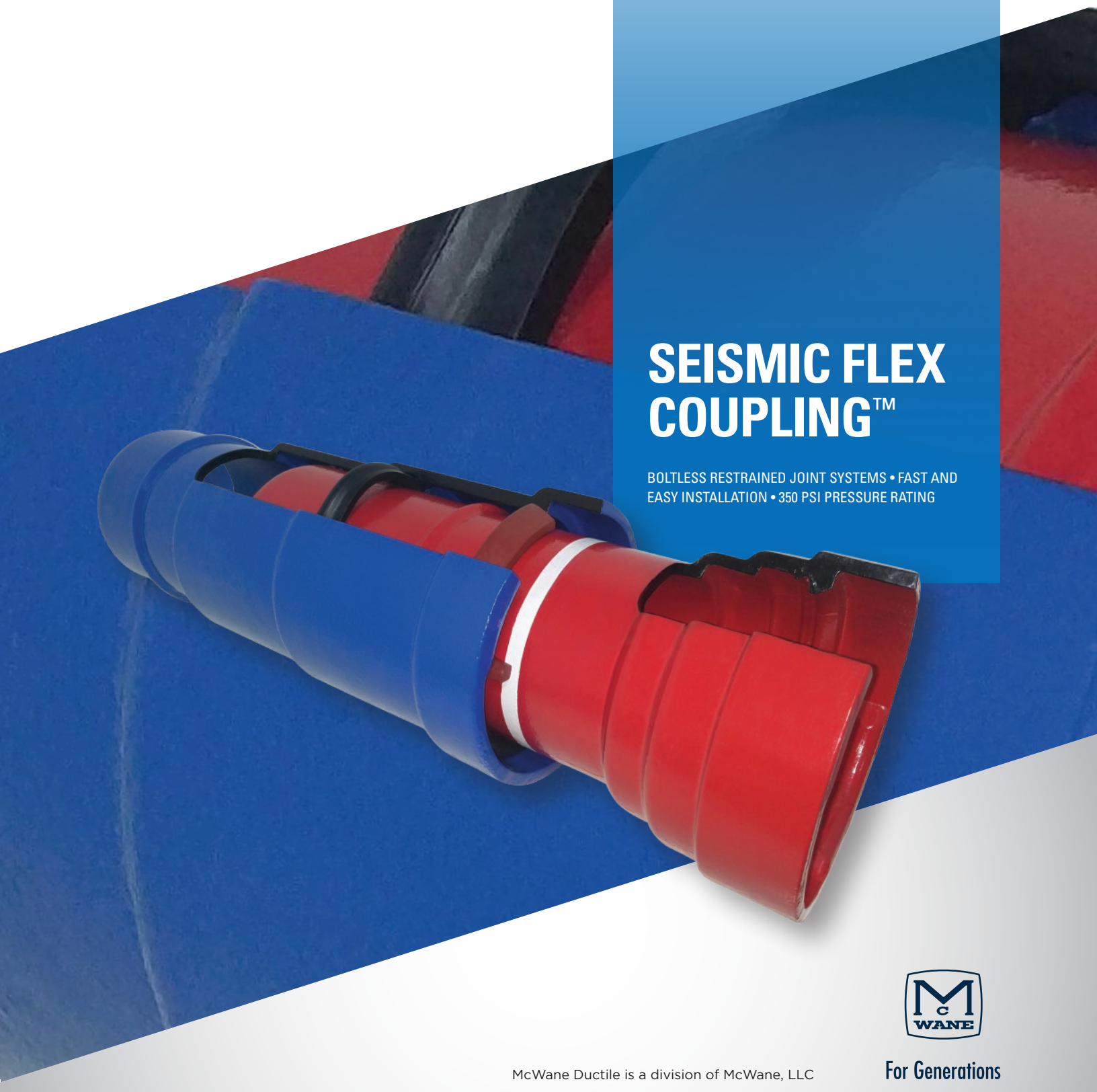
McWane DUCTILE

IRON STRONG

McWaneDuctile.com

SEISMIC FLEX COUPLING™

BOLTLESS RESTRAINED JOINT SYSTEMS • FAST AND EASY INSTALLATION • 350 PSI PRESSURE RATING



McWane Ductile is a division of McWane, LLC

McWane For Generations

INTRODUCING THE SEISMIC FLEX COUPLING™

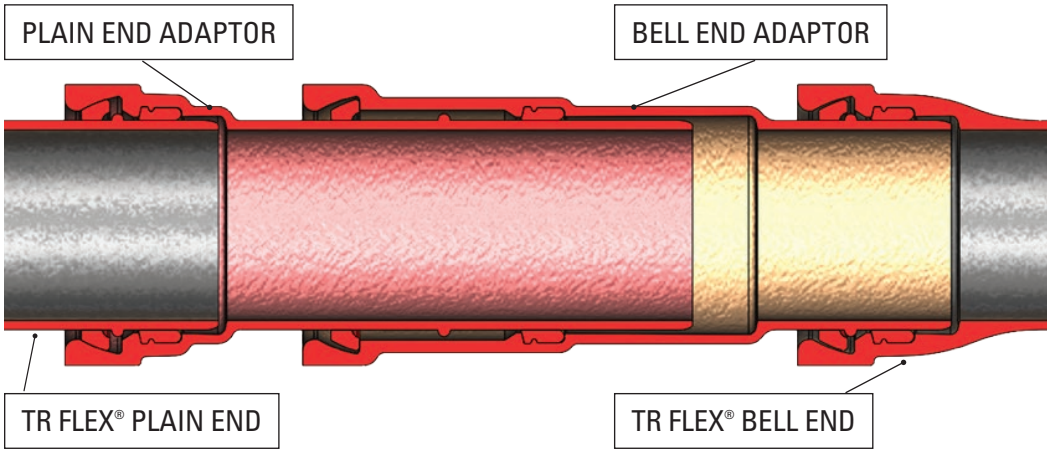
WHETHER IT IS GROUND DISPLACEMENT, LIQUEFACTION, STRAIN ALONG A FAULT LINE OR STRUCTURE, MCWANE DUCTILE'S NEW SEISMIC FLEX COUPLING™ PROVIDES A RELIABLE ECONOMICAL SOLUTION. RELYING ON THE WORLDWIDE-PROVEN JOINT RESTRAINT SYSTEM KNOWN IN NORTH AMERICA AS TR FLEX®, MCWANE DUCTILE'S NEW SEISMIC FLEX COUPLING™ PROVIDES THE RELIABLE, ECONOMICAL SOLUTION TO KEEP YOUR UTILITY IRON STRONG FOR GENERATIONS!

Seismic actions and other earth-shifting events can cause failure of pipelines. Ductile iron pipe has been shown in studies to be the most durable pipe during these events due to its strength and joint restraint capability. Ground movements are a reality, and not just in areas with higher levels of earthquake or seismic activities. Coastal storms wash out roads and embankments in coastal areas, river flooding can wash out river banks, and even bridges, while land and mudslides have happened in many areas around the country.

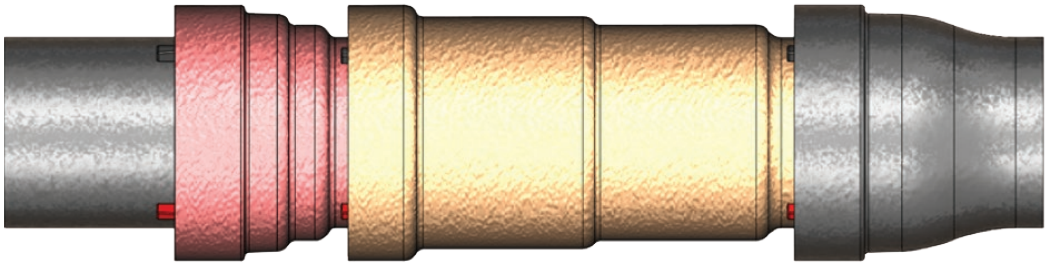
For years, ductile iron pipe has proven its superior performance in all these situations. In fact, studies of pipe failures resulting from earthquakes have shown ductile iron pipe to have fewer pipe failures than plastic, asbestos cement, steel or concrete, and furthermore, the ductile iron failures were a result of joint separation, most likely unrestrained push-on joints. While modern restrained joints provide great restraint capability, they do not provide a great deal of expansion and contraction ability, but now that's changed.

McWane Ductile's new Seismic Flex Coupling™ provides over 10.5" of expansion capability and up to 11.5° of joint deflection while maintaining a water-tight seal through its 350 PSI pressure rating . Other so called earthquake joints just don't stack up with only 3 or 4 inches of expansion and 5° to 10° of deflection.

Made of Ductile Iron, McWane's Seismic Flex Coupling™ has a 350 PSI pressure rating and conforms to all requirements of AWWA C153. With its time-proven TR Flex® joint design, it maintains the high pull-out strength required in seismic activity areas even when fully deflected.

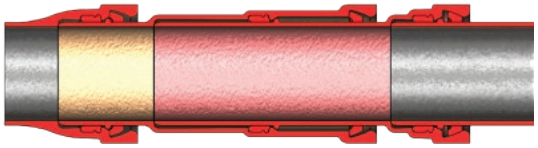


McWane Ductile's Seismic Flex Coupling™ is fully compatible with any TR Flex® bell or plain end, allowing it to be easily inserted into a restrained joint pipeline.

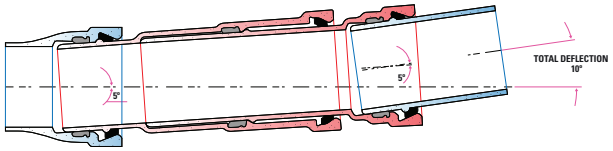


Utilizing the time-proven TR Flex® restrained joint, the McWane Ductile Seismic Flex Coupling™ is easily and quickly installed without special tools.

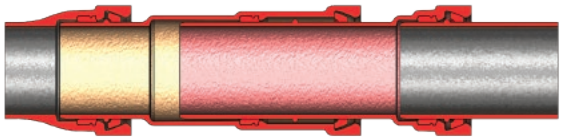
FULLY COLLAPSED



DEFLECTION AND EXPANSION / CONTRACTION AT FULLY COLLAPSED



MID POSITION



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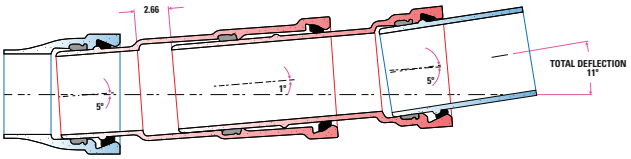
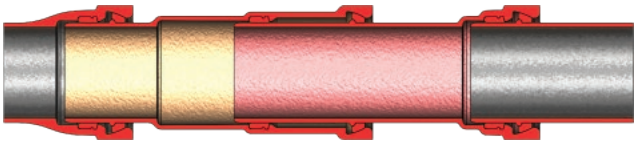
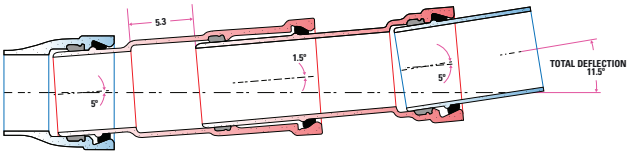


FULLY EXTENDED VIEW



DEFLECTION WHEN FULLY EXTENDED



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