

G1. What type of piping repairs can a MSRC be used for?

The SRJ MSRC is designed to address thinned or damaged sections of metallic piping. Standard length clamps are best suited where longer sections of piping require reinforcement to ensure their integrity. Shortened models are recommended to address localised defects.

G2. Is the MSRC one size fits all?

MSRCs are available across a range of nominal pipe diameters from 3" to 12", and each model will fit one particular size of pipe only. Maximum pressure ratings for the different MSRC models can be found on the product Technical Data Sheet.

G3. Is the MSRC ASME compliant?

Yes, the metallic parts of the MSRC have been subject to finite element analysis to confirm that stress levels are acceptable under maximum allowable working pressure (MAWP). The product has also been subject to rigorous testing at pressures in excess of MAWP, which confirmed that for all sizes a leak before 'breakout' would occur, i.e. a leak will occur between the pipe and seal mat, relieving pressure and preventing over stress of the metallic components.

G4. Can the MSRC be installed on a live leak?

Yes, the MSRC can be used to stop leaks for holes up to 25mm in size without the need for isolation. The viability of online leak sealing should always be verified via risk assessment, taking account of the leaking process medium properties.

G5. What material are the seals in a MSRC made from?

The standard (general purpose) seal material used is Viton® providing good oil and chemical resistance, and a broad operating temperature range (from -25 to 210°C). Other material types are available; SRJ will advise the most appropriate material selection for a given application based on the details that are provided on the customer enquiry form.

G6. Can the MSRC be installed on an Elbow / Tee / Reducer?

The MSRC range is not designed to span elbow, tee, and reducer joints, however SRJ can provide alternative repair / leak sealing solutions to address these types of piping configuration.

G7. How does the MSRC cope with pipe ovality?

The unique three shell and sealing design provides excellent tolerance for pipe ovality.

G8. Is the MSRC suitable for use on non-metallic pipes?

The MSRC exerts a considerable clamping force on the target pipe to provide the required sealing pressure. SRJ will advise if a MSRC may be used for non-metallic pipe applications.

G9. Who can install the MSRC?

SRJ products are typically installed by selected global partners who are given product-specific installation training. SRJ can arrange training of client operations personnel to install MSRCs themselves if required.

G10. What tools are required for MSRC installation?

Only simple hand tools (e.g., torque wrench) and materials (e.g., thread lubricant) are needed to install the MSRC. For the large size (6" and above) standard length models, rigging apparatus is needed to facilitate safe handling of the clamp during installation. These larger models incorporate handling points to accommodate a 1/4" shackle for this purpose.

G11. How long does it take to install an MSRC?

A 12" standard length MSRC, the largest clamp in the range, can be installed and fully torqued in under 30 minutes. Smaller models are quicker to install.

G12. Can the MSRC be considered as a permanent repair?

The MSRC should be regarded as an emergency or temporary repair solution that enables operating facilities to remain online until the next shutdown opportunity allows for a full, permanent repair.

G13. What maintenance of the MSRC is required during service?

The MSRC is intended as an emergency or temporary repair solution and should therefore not be installed in the field for indefinite periods. Where prolonged installation is necessary, periodic (3 monthly) visual inspections to check / confirm MSRC condition should be carried out, especially where the unit is subject to extremes in vibration, dirt etc. or exposure to corrosive fluids. Ad-hoc inspections would be advised in the event of severe or abnormal thermal or pressure cycling of the piping system where the MSRC is installed.

G14. Can the MSRC be reused?

The MSRC is designed to be fully refurbishable and reusable. Partial disassembly and inspection of the MSRC should be carried out each time it is withdrawn from field service and prior to unit restorage. At this time, the MSRC seals should be removed from the shell retaining pockets and discarded if there are any signs of permanent deformation to the hex lattice walls. For more details, please request a copy of the MSRC Servicing and Storage Guidelines.

G15. Does SRJ provide a guarantee for the MSRC?

SRJ will guarantee that the product is free from defects in design, material and manufacture and conforms to the specifications and / or standards agreed with the customer.