

Hose Fittings and Clamps

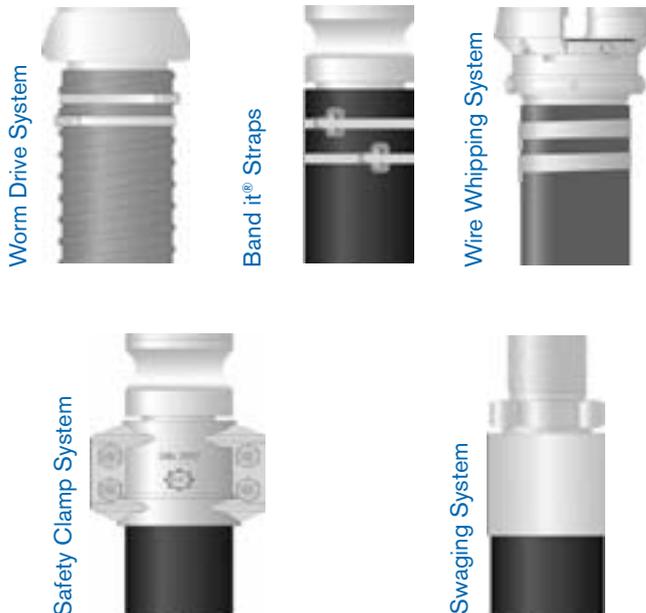


Important safety update for hose users. Hose clamping safety note

Issue: What Fastening System is Best? The answer is: It All Depends.

Because the hose / coupling interface is critical to hose assembly performance, the proper selection of the clamping system enhances the usefulness of the hose assembly.

For best and safe performance, a complete examination of actual service conditions should be conducted and the clamping system should be selected to meet those service conditions under which it to be used. Installation of an the wrong clamping system can result in serious consequences.



MORE INFORMATION

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Clips: Jubilee®, Worm Drive Clips and Bolt Clamps:

This low cost option of fastening is useful for very low pressure and low temperature soft wall hose connection applications. Ideal applications for this system would be garden or low pressure air hoses. It is not recommended for leak free applications where the assembly is to withstand higher internal pressures, external forces or the application is of a critical nature where the transmitted media may be harmful and expensive. Blow outs can be a frequent occurrence and costly to maintain. However, the system is user friendly in a suitable application because damaged hoses can be repaired on-site relatively cheaply and quickly.

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LMC Clamps:

LMC Clamps are a versatile alternative to both clips and crimping methods. Like interlocking ferrules, these clamps have a rim on the inside which fits over and interlocks with the fitting collar. When the bolts are tightened properly, the coupling cannot be removed from the hose. RK safety clamps are the standard and ideal for heavier-walled hoses in large diameters. The Flexoline range is an evolution for today's thin-walled, lighter, and ever more flexible hoses. RK safety clamps are too big for this new generation of hoses. LMC clamps are a safe and convenient solution. With routine inspection, an on-site advantage is these clamps solve the problem of leakage, blow offs, and potential consequences due to hose expansion and contraction. For example, in a steam application LMC RKS steam clamps, in conjunction with LMC steam couplings, inspected routinely will ensure the hose assembly remains safe and productive. These clamps have pressure ratings up to 25 bar, depending upon service conditions. Another benefit is these user friendly clamps can be easily dismantled and reused.



Crimping / Swaging:



This method of fastening fittings to hoses is ideal for applications where high internal pressures and /or external forces are present. The use of interlocking ferrules and hose-tails offer a safe, tamper proof, leak-free, and low maintenance solution for applications of a precarious or dynamic nature; e.g. CIP / SIP applications, ensuring systems remain closed circuit. Common in the Chemical, Petrol-Chemical, Food Processing, and Pharmaceutical industries, these safe assemblies can be tested and certificated at the factory and installed with minimal on-site effort. The downside of such a system is that the fittings are permanently attached. Thus, the assembly becomes quite user unfriendly on-site when a failure occurs – even if the fittings can be harvested for reuse, the assembly must be returned to the factory for refit and retesting in a controlled environment.

In addition, crimped ends are vulnerable to thermal expansion and contraction; eg. Steam Applications. These fittings must be attached by a qualified technician with the proper tools and procedures in place.



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