

Industrial Metal Hose Assemblies

Safety notes

Safe installation, operation and maintenance procedures must be established for this equipment based on the procedures of the site and environment in which it operates. These procedures must be in place before installation, operation and maintenance occurs.

Prior to starting any procedure check health and safety requirements with the person responsible for the area and ensure all required precautions, PPE and permissions are in place.

The following list of potential risks is not exhaustive; all those working with the equipment must take the necessary steps and advice to ensure safety:

- Pressurised equipment
- Hazardous fluids
- High temperatures
- Unrestrained piping and equipment
- Handling and lifting

Hose construction

Metal hoses assemblies are normally supplied with an outer braid. The braid is to restrain the pressure force and as such is an integral part of the pressure system.

The braid is not for mechanical protection of the hose.

Hose assemblies are designed to meet defined operating conditions. You must ensure these conditions are met in the specific installation.

Prior to placing a metallic flexible hose assembly in to service, as a minimum, consideration should be given to ensuring the flexible hose assembly will meet all aspects of the application, in respect of pressure, temperature, materials compatible with intended service, bend radius requirement, flow velocity, end fitting specification and end fitting attachment method.

Installation

Do not torque: Flexible metal hose assemblies must never be subjected to torque or twisting during installation and application.

- To avoid this condition during installation use as a minimum a swivel end fitting at one end of the flexible hose. The fixed end should always be connected first.
- For movement applications always install the flexible hose assembly so the movement occurs in one plane only, and in the plane of bending.

Axial movement: Flexible corrugated hose assemblies are not designed for in-line axial movement and should not be subjected to compression or extension during application service.

Abrasion/rubbing: Do not allow flexible corrugated hose assemblies to rub on other objects or equipment. This can be particularly damaging if the hose assembly is installed on a flexing application or being used for vibration movement. Premature and catastrophic failure can occur especially if the pressure restraining braid is damaged and weakened.

Corrosion: Correct selection of materials is important when considering flexible corrugated hose assemblies for transferring chemicals or if used in a chemical/marine environment.

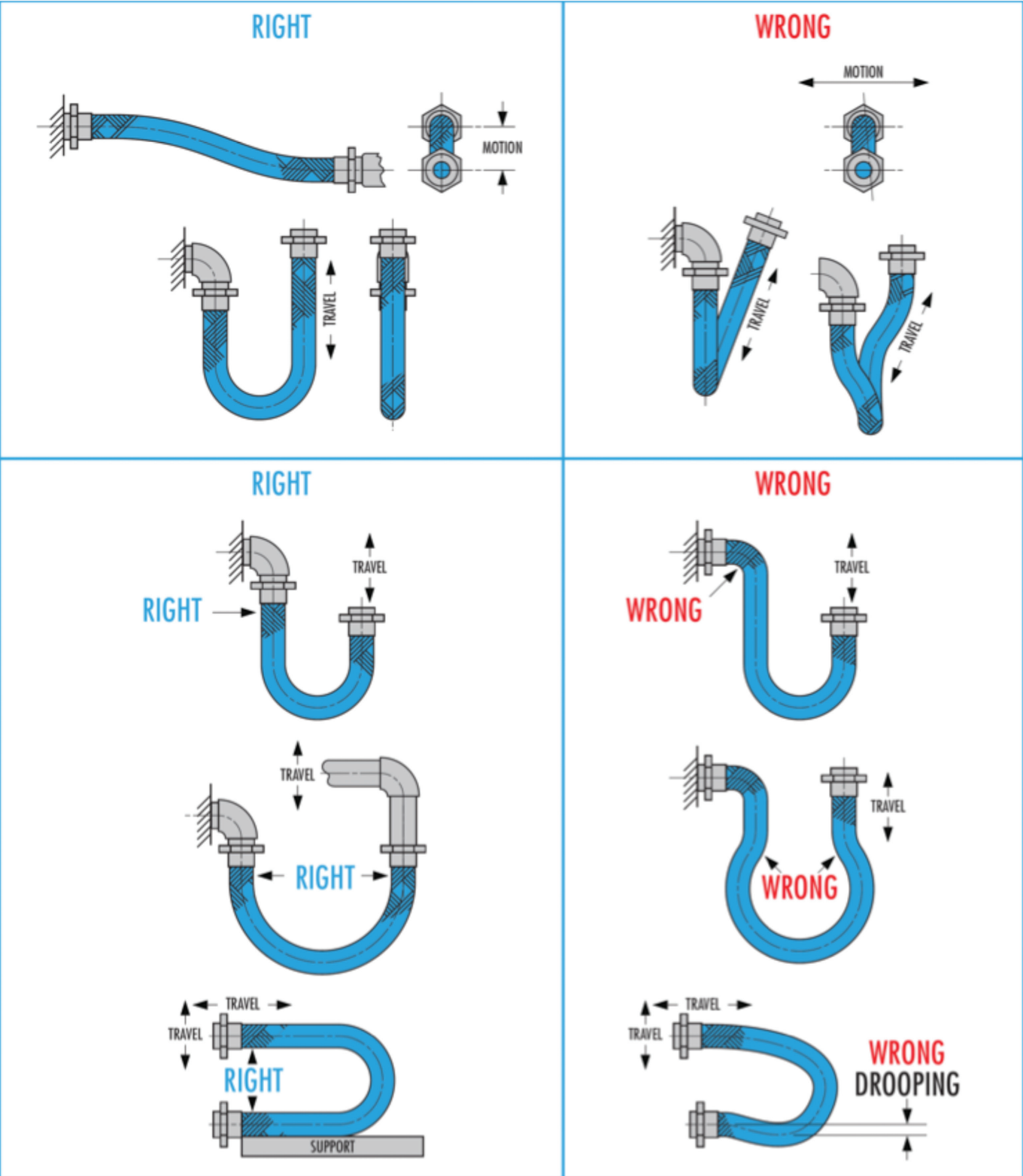
Failure to apply these rules will result in premature failure.



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