

OPERATING AND INSTALLATION INSTRUCTIONS FOR HYDRA® METAL HOSE ASSEMBLIES



Quality by Witzenmann

When correctly mounted and operated, HYDRA metal hose assemblies are reliable and have a long service life.

1. Operating Instructions

The conditions specified in the order are fundamental to the safe operation of the hose assemblies.

The hose assemblies must also be designed and arranged with an adequate length, correctly installed and properly handled in compliance with our technical specifications.

Hose assemblies **should be protected against outer mechanical damages** and should therefore not be dragged on the floor or over sharp edges.

The hose assemblies must be able to move collision-free during operation.

HYDRA metal hose assemblies are maintenance-free. However, they **should be visually inspected** by the plant operator at time intervals appropriate to the operational circumstances; particular attention should be paid to damages, such as buckling, corrosion and meshwork tear-offs.

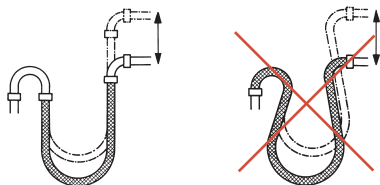
Metal hose assemblies with visible defects should no longer be in operation.

Before commissioning, fixed metal hose assemblies should, as a rule, undergo a pressure test. This applies also when the metal hose assemblies are put back into service following mounting, dismounting or plant alterations.

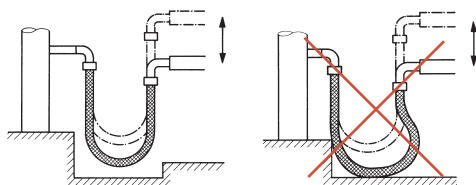
The permissible test pressure must not, under any circumstances, be exceeded during pressure testing.

2. Installation Instructions

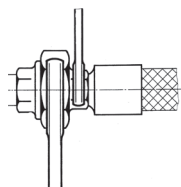
- Examine the hose assembly for possible damage, e.g. during transport, before installation.
- **Protect** hose assembly **against welding or flux spatter**; if necessary, cover with non-conductive material
- **Prevent electric short circuit** caused by welding electrodes or earth cables; the hose may otherwise suffer irreparable damage
- Protect hose assembly against heavy soiling (corrosion danger, movement restriction!)
- Use only heat insulation that does not restrict the flexibility of the hose assembly
- **Do not use any insulating material containing corrosive components**



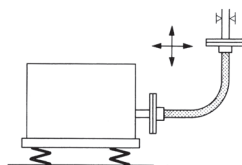
- Select counter fittings in such a way that the hose assembly is **prevented from buckling** (insert angular brackets, elbows etc.)



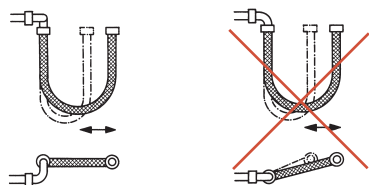
- Make sure that there is adequate room for the hose assembly to move; avoid collisions during operation



- **Ensure distortion-free assembly of the hose line;** if connected by screw, hold screw in place with a second wrench or a pipe wrench



- If connecting a hose assembly to vibrating units, fix the pipeline immediately after the hose assembly



- Mount hose assembly as far as possible in one plane to prevent torsional stress when there is movement

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