



► **Products designed for critical applications**

**Water & Wastewater Treatment Industry**



Hose Master engineers high quality metal hose and expansion joint solutions for the water treatment industry. Whether operating as a publicly owned utility or as a part of a privately owned industrial complex, we understand the need for uninterrupted service. We use proprietary manufacturing processes that yield products specifically designed to handle the requirements of both pre-consumption water treatment systems, as well as wastewater treatment facilities. Wherever resistance to harsh chemicals (including elemental chlorine), abrasion from sludge, or high water pressures are important, our products are there to ensure less downtime. Public and privately owned water treatment facilities trust Hose Master products for their most critical applications

## ► Recommendations for using metal hose:

### Temperature extremes

If either the substance flowing through the hose or the surrounding atmospheric temperature is very cold or hot, metal may be the only hose material able to withstand the temperature extremes.

### Chemical compatibility

Metal hose can handle a wider variety of chemicals than most other hose materials. If the hose will be exposed to aggressive chemicals, either internally or externally, metal hose should be used.

### Permeation concerns

When containing the gases inside the hose is important, metal hose is a good choice. While other hose materials may allow gas permeation through the hose wall and into the atmosphere, metal hose, on the other hand, is not susceptible to permeation.

### Abrasion and over-bending concerns

To prevent damage caused by abrasion or over-bending, a metal hose can be used as a protective cover over wires or even other hoses.

### Potential for catastrophic failure

Non-metal hose types often fail by developing large cracks or suddenly coming apart completely. If a metal hose fails, however, it will typically develop only small holes or cracks. If a sudden hose failure would be catastrophic to your operation, a metal hose may minimize the damage by leaking product at a slower rate.

### Fire safety

Other hose types can melt when exposed to fire or high temperatures. Metal hose, however, maintains its integrity to 1200° F and beyond.

### Full vacuum applications

Metal hose maintains its shape even under full vacuum – a condition where other hose types may collapse.

### Fitting configuration flexibility

Virtually any type of fitting can be attached to metal hose, without the special shanks and collars needed with other types of hose.

## ► Water & Wastewater Treatment applications for Hose Master products:



### Corrugated metal hose

- Transfer lines for chlorine and other chemicals
- Injection lines used to inject chlorine, biocides, demineralizers, or corrosion inhibitors
- Water lines
- Steam lines
- Air lines
- Steam Lines to Pug Mills



### Metal expansion joints

- Pump suction lines
- Long piping runs
- Air blower systems for aeration tanks
- Miscellaneous water, steam, and air lines
- High-pressure water lines, such as reverse-osmosis systems
- Sludge from water and wastewater treatment



### Stripwound metal hose

- Armor guard
- Solid product
- Transfer Conduit