

# PRODUCT OVERVIEW

## HYDRA<sup>®</sup> METAL HOSES



### HYDRA Corrugated Hoses

Corrugated hoses are manufactured from various materials with a corrugated profile. They are available for diameters ranging from DN 6 to DN 300, up to PN 250 (depending on nominal diameter) and for temperatures ranging from -270 °C up to max. 600 °C. Pressure hoses are used in applications including the conveying of media at high pressures and temperatures. Corrugated hoses are pressure-resistant and meet the strictest requirements on tightness. Hose lines with a broad range of connecting elements are available.

#### Details

- Corrugations are formed by mechanical or hydraulic means
- For conveying pressurised fluids or for vacuum applications
- With PTFE lining for highly aggressive media

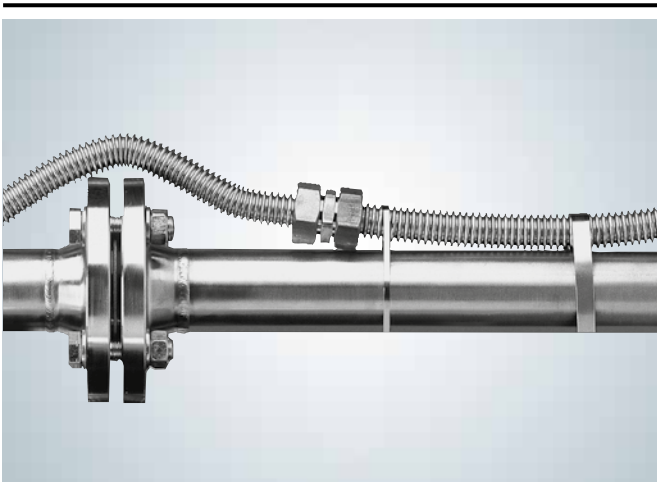


### HYDRA Stripwound Hoses

Corrugated hoses are manufactured from a profiled strip that is coiled spirally so that it interlocks. Made to match the application scenario, these hoses are manufactured from different profiles – ranging from a highly flexible engaged profile to the sturdy interlocked version. Stripwound hoses are frequently used as flexible, heat- and ageing-resistant element in exhaust gas technology, as protective conduits for electric cables / light conductors and as extraction and conveying hoses.

#### Details

- Good flexibility
- High mechanical strength
- Vibration-resistant



### HYDRA Heat Trace

The flexible heat trace is routed parallel to the piping and is insulated jointly with the pipes. Steam/hot water of up to 200 °C is used for heating. Due to their small bending radii, corrugated hoses can be installed easily and without complications. The hose can be installed in the smallest of bending radii (20 - 35 mm).

#### Details

- DN 12 to DN 25
- Easy installation without isometry and measuring
- Kinking resistance prevents constriction of the crosssection
- Can be extended as needed, no welding seams
- Max. operating pressure 20 bar

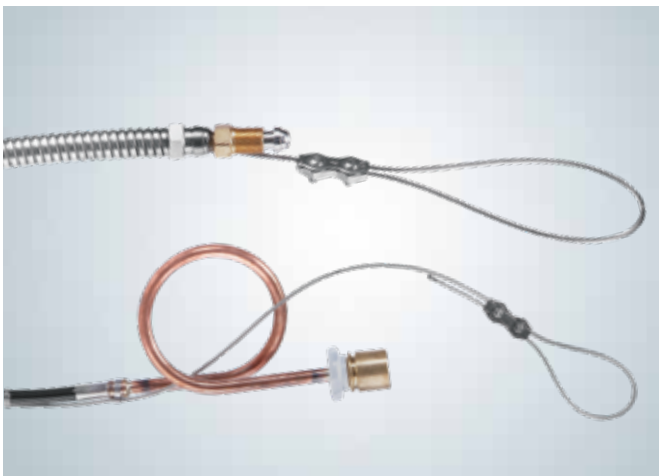


### HYDRA Hose Assemblies – PTFE-Lined

PTFE-lined hose lines are used predominantly in the chemical, pharmaceutical and food industry whenever the chemical durability of metallic materials is insufficient.

#### Details

- Stainless steel corrugated hoses in accordance with ISO 10380
- The entire inner surface of the metal hose is protected by PTFE, including at the sealing surfaces.



### HYDRA High-Pressure Hoses

The hoses are used in industrial filling stations to fill gas bottles. The high-pressure hoses are designed to withstand the high pressures, additional motions, and pressure changes.

#### Details

- Robust design
- Suitable for operating pressures of up to 400 bar  
Burst pressures of up to 1,300 bar are attained
- High degree of flexibility simplifies the installation



### Flexperte® – The Design Software

Special-designed for designers, "Flexperte" is a PC software for dimensioning and presenting expansion joints, metal bellows, metal hoses, and pipe supports. The menu-based application aids in the calculation and dimensioning of these products.

For more details, please visit [www.flexperte.de](http://www.flexperte.de)

#### Details

- Design of hose lines
- Preparation of material data sheets
- Preparation of enquiries



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