

# THE CLEVER ALTERNATIVE ONEFLO PUMP HOSES

Outstanding durability, cost-efficiency and reliability.



Mining & Construction



Environmental technology



Food & Beverage



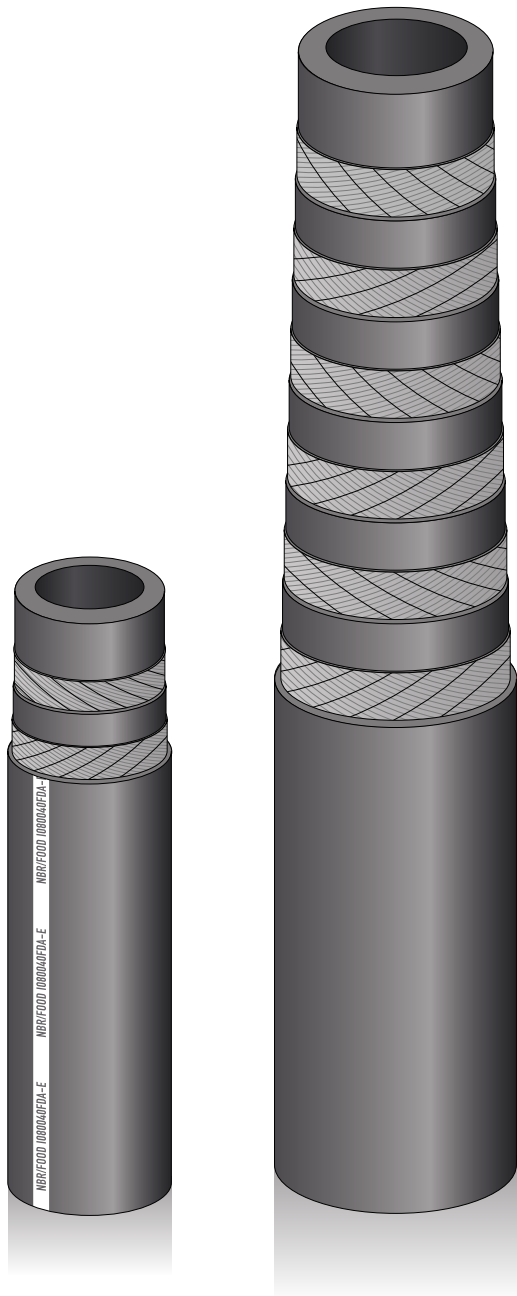
Chemical



Paints & Coatings



Pharmaceuticals



## ●..... LARGE VARIETY OF MATERIALS

for food, oils & greases, cleaning agents and shear-sensitive media. The hoses are optimally suited for highly viscous, abrasive and aggressive liquids with high solids concentrations.



## ●..... HIGH-STRENGTH NYLON MICRO FABRIC

for exceptional resistance and long service life. The specially arranged fabric structures give the hose high restoring forces and thus reliable suction performance up to 9.5 m water column as well as optimal dosing properties.

## ●..... UNIFORM WALL THICKNESS

for reproducible service life and economical lubricant consumption. The hoses are manufactured with tight tolerances and consistent wall thicknesses over the entire length.

**ONEFLO**<sup>®</sup>



# ONEFLO PUMP HOSES

## The hose... the beating heart of the pump!

The essential component of the peristaltic pump is the rubber hose located in the pump chamber; it is the **true "beating heart" of the machine**. Its principal function is to guarantee the correct functioning of the peristaltic system.

The mechanical features of the hose and the materials with which it is built are determining factors influencing pump performance:

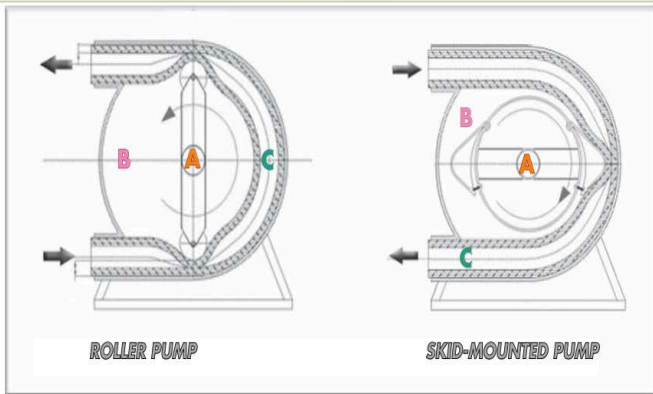
- its **elasticity** enables liquid suctioning and enhances the machine's capacity to provide a constant flow;
- its **resistance to compression over time** and **chemical compatibility** with the conveyed liquid determines its life span and thus the reliability of the pump.

The flexible hose is thus equipped to withstand the pressing force of the rollers or sliding shoes for as long as possible, thanks to its elasticity. This special ability to resume its original dimensions enables the pump to maintain its flow and suction capacity over time while limiting "spallation" (the release of dust or rubber particles).

**The rubber hose is thus responsible for maintaining the efficiency of the pump system.**

ONEFLO pump hoses are drawing on more than fifty years of experience with peristaltic pump technology.

Developed to the latest design criteria and manufactured with high-precision processes, ONEFLO hoses reliably withstand the toughest demands.



A. Rotor (rollers/skids)

B. Pump head

C. HOSE

## RANGE OF DIMENSIONS

Hose	LW-10	LW-15	LW-20	LW-25	LW-32	LW-40	LW-50	LW-65	LW-80	LW-100
Size	10 mm	15 mm	20 mm	25 mm	32 mm	40 mm	50 mm	65 mm	80 mm	100 mm
Suited for	Bredel 10	Bredel 15	Bredel 20	Bredel 25	Bredel 32	Bredel 40	Bredel 50	Bredel 65	Bredel 80	Bredel 100

## OUTSTANDING DURABILITY

Special polymer/rubber compounds and the advanced vulcanization process ensure maximum resistance to abrasive liquids. In this way, they give the hose the necessary elasticity for particularly long service life.

## EXCELLENT SUCTION LIFT

Multiple fabric layers of high-strength nylon microstructures generate a reliable rebound effect to restore the hose to its original shape after compression and achieve excellent suction lift up to 9.5m head of water.

## REPRODUCIBLE DOSING ACCURACY

Due to the unique layered structure of the high-strength nylon microfabric, ONEFLO hoses work reliably and with reproducible dosing accuracy.

## COST-EFFICIENT AND RELIABLE











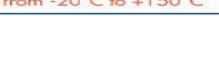

Long service life and uniform wall thicknesses reduce spare parts costs, service downtime and lubricant – while improving your operating efficiency with strong suction performance and optimal dosing capabilities.



# ONEFLO PUMP HOSES

- ✓ **COST SAVINGS**  
due to long durability and high-quality manufacturing processes
- ✓ **SHORTER SERVICE TIMES**  
due to reliable operation and reproducible service lives
- ✓ **LESS CONSUMPTION**  
due to economical use of lubricants as a result of the precision surfaces
- ✓ **RELIABLE PRODUCT QUALITY**  
due to perfectly matching chemical properties
- ✓ **OPTIMUM OPERATING EFFICIENCY**  
due to outstanding suction performance and optimum dosing characteristics

## THE PERFECT MATERIAL FOR YOUR APPLICATION

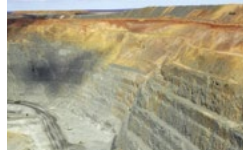
  Temperature: from -10°C to +80°C	Natural Rubber Black interior Black exterior	<ul style="list-style-type: none"> <li>• Excellent mechanical performance.</li> <li>• Ideal to convey abrasive, non-aggressive liquids and liquids with solid bodies in suspension.</li> <li>• Used for most applications and particularly in the construction sector.</li> </ul>
  Temperature: from -10°C to +80°C	Natural Rubber Clear interior Black exterior	<ul style="list-style-type: none"> <li>• Food version.</li> <li>• Used primarily in the food industry and especially in oenology.</li> <li>• For food contact acc. to FDA Standards.</li> </ul>
  Temperature: from -10°C to +80°C	Acrylonitrile Butadiene Rubber Black interior Black exterior	<ul style="list-style-type: none"> <li>• High resistance both chemical and mechanical.</li> <li>• Ideal for transferring oily and fatty liquids (including mineral oils).</li> </ul>
  Temperature: from -10°C to +80°C	Acrylonitrile Butadiene Rubber Clear interior Black exterior	<ul style="list-style-type: none"> <li>• Specifically designed for transferring animal and vegetable products, fatty and oily foodstuffs.</li> <li>• For food contact acc. to FDA Standards.</li> </ul>
  Temperature: from +15°C to +150°C	Hydrogenated Nitrile Rubber Black interior Black exterior	<ul style="list-style-type: none"> <li>• Excellent mechanical features.</li> <li>• Excellent resistance to mineral and lubricating oils, fuels and liquids with an aromatic content of up to 60%.</li> <li>• Mainly used for application in the oil and automotive sectors.</li> </ul>
  Temperature: from -10°C to +100°C	Ethylene Propylene Diene Monomers Black interior Black exterior	<ul style="list-style-type: none"> <li>• Ideal for transferring a wide range of chemical products* and corrosive liquids.</li> </ul> <p>(*): Contact the MTG Technical Sales Office to verify chemical compatibility with the products.</p>
  Temperature: from -10°C to +80°C	Chlorosulfonated polyethylene (Hypalon®) Black interior Black exterior	<ul style="list-style-type: none"> <li>• Its carcass exhibits a good mechanical performance and is highly suitable for transferring a wide variety of aggressive chemicals*.</li> </ul> <p>(*): Contact the MTG Technical Sales Office to verify chemical compatibility with the products.</p>
  Temperature: from -20°C to +150°C	Silicone Rubber Clear interior Clear exterior	<ul style="list-style-type: none"> <li>• Specifically designed to convey high purity liquids (fatty, oily, cosmetic and pharmaceutical) and those with an alcoholic content of up to 96%.</li> <li>• Pharmaceutical validation: complies with USP Class VI, EU Pharmacopeia and FDA Standards.</li> <li>• Does not release rubber particles into conveyed liquid (spallation) during the lifetime of the hose.</li> </ul>



# ONEFLO PUMP HOSES

## APPLICATION EXAMPLES

We have delivered ONEFLO hoses to a wide range of applications. These are some examples:



Food production	Brewing processes	Construction materials processing	Mining	Water treatment
Animal fat	Waste yeast	Aerated concrete & mortar	Abrasive slurry	Waste water
6 bar	4 bar	12 bar	15 bar	5 bar
60°C	20°C	20°C - 50°C	65 °C	20 °C
NBR Buna	NBR	EPDM	NR	NR
Continuous operation	Batch operation	Batch operation	Continuous operation	Batch operation

## AVAILABLE ON STOCK FROM OUR EUROPEAN DISTRIBUTION CENTRE

The full range of various materials and dimensions is available directly from stock at AxFlow. Also find out about the attractive pricing structure with which we offer ONEFLO pump hoses. Price comparison pays off!



*Express shipping from stock*



## ALSO FROM ONEFLO: LUBRICANT FOR YOUR HOSE PUMP

The glycerine-based lubricant is formulated for the best lubricating and cooling characteristics and provides optimum hose life. As an H1 lubricant with NSF® registration, ONEFLO can also be used in the food sector.

