

AFX
HOSES



KEEPING FLUID IN MOTION

AFROMIX

A DIVISION OF AFX HOLDINGS



<http://www.afromix.co.za/>

NORTH AMERICA

EUROPE

AFRICA



ABOUT US

AFROMIX, a division of AFX Holdings, is a leading South African manufacturer of mixers and peristaltic pumps. With a proven track record of successful installations and decades of expertise, we provide reliable mixing solutions to industries worldwide. Our strong presence in Europe, North America, Australia, and Africa reflects our reputation for innovation, quality, and trusted engineering excellence.

While our origins lie in the mining sector, AFROMIX has steadily expanded into diverse markets, including chemical, food & beverage, pulp & paper, water treatment and pharmaceuticals.

WHAT MAKES US DIFFERENT

POWERFUL TRACK RECORD

With more than 30 years experience and a proven track record of successful installations worldwide.

ENERGY EFFICIENT DESIGNS

With increasing emphasis on global energy usage, AFROMIX carefully considers power usage on all products. Our range of peristaltic pumps use a unique roller design to reduce power and increase hose life. Our careful choice of selection and impeller geometry on our agitators ensure optimum power and operating efficiencies.

MANUFACTURING “EXOTIC MATERIALS”

We manufacture in a range of “exotic” materials to your industry requirements.

WORLD CLASS PRODUCTS WITH A WORLD CLASS GUARANTEE

As an ISO 9001-rated company, we provide exceptional product guarantees and back-up service with representation globally.

OUR DESIGNS AND MANUFACTURING ARE SPOT ON

AFROMIX ensure that all equipment is manufactured to stringent standards.

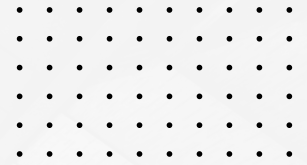
INCREASED PLANT PRODUCTIVITY

Our on-site inspection and service reports will guarantee enhanced plant productivity and reduce maintenance.

ONGOING R&D

AFROMIX's is continuously improving manufacturing techniques ensuring that our products range assists processing plants in achieving optimum process results with minimum downtime.

HOSES



Each hose we supply is built under stringent quality control measures, using high-quality, compounded rubbers, reinforced with four individual layers of braided nylon carefully set at optimum angles. Once cured, the outer diameter of each hose is precision machined to exacting tolerances ensuring a perfectly sized hose.

An accurately sized hose ensures perfect compression, which eliminates internal slip (which reduces pump efficiency and allows for the abrasive slurries to prematurely destroy the hose).



At the heart of every AFX peristaltic pump lies a heavy-duty peristaltic hose specially developed to work hand in hand with the pump roller technology installed in the AFX PUMP SERIES. We stock a comprehensive range of hose materials for each pump to be compatible with the unique chemical and abrasive characteristics of every application. A carefully designed and manufactured hose element is the single most vital component for the performance durability and efficiency of any peristaltic pump. To ensure a good pump you must have a good hose, and this is where AFX excels.

HOSES



DESIGNED AND MANUFACTURED TO PERFECTION

Utilising design tools such as Finite Element Analysis (FEA), backed up by physical tests and theoretical calculations, our hoses are designed to perfection, right down to the position of the reinforcing layers, the braid angles, cord thickness, and the thickness of the surrounding rubber. The roller geometry and the profile of the pump housing are all designed and engineered to optimise the performance of the pump hose. To ensure a good repeatable and consistent hose life, you must have a hose built and machined to exacting tolerances. To us, the ISO standards are not good enough. All our hoses exceed the requirements set out in ISO 1307 and DIN7715.



AVAILABLE HOSE LINER MATERIALS

EPDM

Ethylene propylene diene rubber. Good chemical resistance, especially if traces of ketones, esters, alcohols and some concentrated acids are present.

Max. fluid temperature: 90 °C

Min. temperature: -10 °C

Nitrile (NBR)

Acrylonitrile butadiene rubber. A durable material suitable when there are traces of oils, greases, alkalis and detergents. A food grade version is also available compliant to European BfR standards, this liner can also be used in a wide range of applications in the food industry.

Max. fluid temperature: 80 °C

Min. temperature: -10 °C

CSM (Hypalon®)

Chlorosulphonyl polyethylene rubber. Good chemical resistance to higher concentration of acids and other oxidising materials.

Max. fluid temperature: 80 °C

Min. temperature: -10 °C

Natural Rubber (NR)

A general purpose material with excellent mechanical and abrasion resistant properties. First choice material in a peristaltic hose for all water-based applications and mild acids, alkalis and oxidising agents.

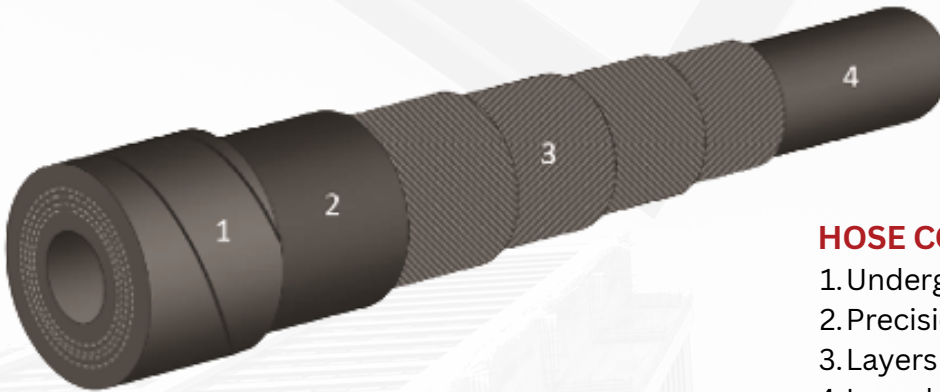
Max. fluid temperature: 80 °C

Min. temperature: -20 °C

HOSES



THE ANATOMY OF AFX HOSES



HOSE CONSTRUCTION

1. Underground outer cover
2. Precision ground finished hose
3. Layers of reinforcement braid
4. Inner hose liner

HOSE TECHNICAL SPECIFICATIONS			
HOSE SIZE (mm)	TOLERANCE ON HOSE WALL (mm)	WORKING PRESSURE RATING (Bar)	STATIC BURST PRESSURE RATING (Bar)
10 - 15	± 0.20	16	75
20 - 40	± 0.20	16	70
50 - 65	± 0.20	16	65
80	± 0.25	16	60
100 - 150	± 0.25	16	55

All hoses have a 53-68 Shore A durometer hardness and are finish ground with an external surface roughness of Ra 8+ 4u

HOSES FOR USE IN OTHER MANUFACTURERS PUMPS

We are so confident about the quality of our hose, that we will supply hoses produced to original tolerances for many of the major peristaltic pump manufacturers after pumps. We have successfully reduced operational costs for a large number of customers by using our hose in their existing peristaltic hose pumps.

MAKE THE RIGHT CHOICE FOR YOUR BUSSINESS

AFROMIX is a trusted name in peristaltic pump hose technology. Manufactured in South Africa and supplied worldwide, our high-performance hoses are designed for durability, precision, and long service life. Built to handle the toughest conditions, AFROMIX hoses are essential to industries such as mining, chemicals, wastewater, food processing, and pharmaceuticals. We deliver reliable performance that keeps your operations flowing smoothly.

WHY AFROMIX'S HOSES

- ➔ Manufactured with reinforced nylon layers and precision machining, every hose exceeds ISO 1307 and DIN7715 requirements.
- ➔ Optimised for Pump Performance.
- ➔ Available in a wide range of specialised materials for chemical, abrasive, or food-grade applications – and can even outperform hoses in other manufacturers' pumps.



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