

Operating Protocol for Verderflex Black NBR Food Grade Hose

VERDERFLEX Black NBR Food Grade hoses are suitable for conveying oily and fatty foods in peristaltic pumps

Cleaning Protocol

VERDERFLEX Black NBR food grade hoses should be cleaned with the following protocol –

First flush	2% Nitric Acid (HNO ₃) solution for up to 3 minutes at up to 50°C
Second flush	2% Caustic soda (NaOH) solution for up to 20 minutes at up to 100°C
	or 5% Caustic soda (NaOH) solution for up to 5 minutes at up to 100°C
	or 20% Caustic soda (NaOH) solution for up to 20 minutes at ambient
Final flush	Flush with clean water to remove all traces of cleaning solutions

Under no circumstances should VERDERFLEX Black NBR food grade hoses be cleaned with Sodium Hypochlorite (NaOCl) based cleaning solutions or the above concentrations, exposure durations or temperatures be exceeded.

EHEDG Approval

VERDERFLEX Black NBR food grade hoses can be used with suitably specified VERDERFLEX pumps to form an EHEDG accredited hygienic pumping system. To comply with this certification both the approved particle velocity must be maintained during the cleaning cycle and the appropriate hygienic port flanges fitted. Should a pump to this specification be required, it should be agreed with your local VERDERFLEX distributor before the pump is supplied.

Food Grade Approval

All VERDERFLEX Black NBR food grade hoses' inner liners are certified as compliant to FDA – CFR 21 Parts 170 to 189 – Item 177.2600

Hose Description

All VERDERFLEX Black NBR Food Grade hoses consist of a smooth black inner food grade liner bonded to a non-food grade outer. The inner liner is a taste-free and odour-less.

Hose Installation

All VERDERFLEX Black NBR Food Grade hoses must be installed in accordance with the procedures defined in the VERDERFLEX Safety, Operating and Maintenance manual.

Identification

VERDERFLEX Black NBR Food Grade hoses can be identified by:

- a) Both an external Yellow Coding / Identification tape and an additional white longitudinal stripe
- b) On supply as a spare part, they will have their ends sealed with Aluminium foil

Pump Installation

VERDERFLEX pumps using VERDERFLEX Black NBR Food Grade hoses must be installed in accordance with recommendations made by the pump's supplier. In particular, special care must be given to the suction and discharge line conditions and that the hose is shimmed in accordance with VERDERFLEX's recommendations. Should there be any doubt about any installation details, these must be discussed with the pumps' supplier.

Particle Release

All hoses will release small quantities of rubber into the product stream, especially immediately after the hose installation and just prior to hose failure. Whilst the rubber released will be food grade particles, these may cause end-user concerns about contamination and so we recommend suitable particle capturing devices such as filters are fitted into the pump's discharge line.

VERDERFLEX BLACK NBR FOOD GRADE HOSE PART NUMBERS

Pump Size	Part Number
VF10	129.2021
VF15	129.2022
VF25	129.2023
VF32	129.2024
VF40	129.2025
VF50	129.2026
VF65	129.2027
VF80	129.2028

VERDERLUBE

The associated VERDERLUBE lubricant is also a food-grade product and is made from foodgrade constituents. A separate product datasheet is available on request.