

Safety declaration | Grounding/Earthing & bonding

1. Declaration

Grounding/Earthing and bonding when using flexible joints

If a flexible installation is made between two conductive installation parts, a conductive connection must be made between those two installation parts to keep these two separated and therefore electrically isolated conductive parts at equipotential. In other words, the conductive parts must also have an electrical connection with each other to prevent and/or settle potential differences e.g. due to electrostatic charging. The electrical resistance should be less than 10 Ω .

This connection will not prevent static charging of the usually non-conductive flexible itself. Therefore please ensure to also an extra connection when sleeve is anti-static or conductive.

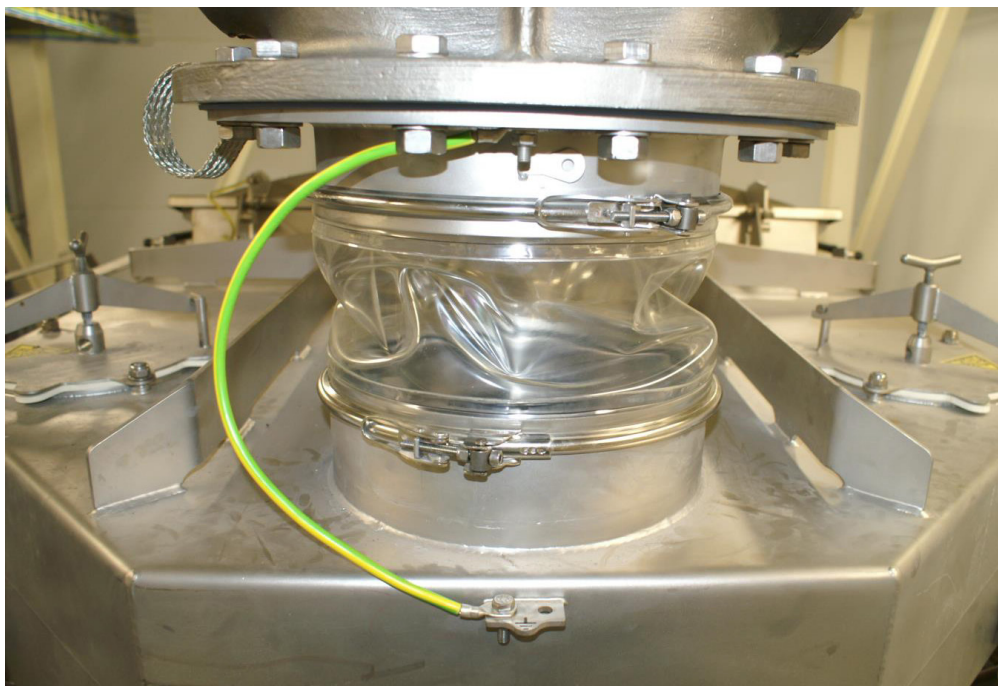
The connection, however, must ensure that any electrical or electrostatic charge formed on the connected conductive installation parts is discharged in order to prevent sparking.

However, if these two installation parts are already connected to each other via a different conductive route, a connecting wire over the flexible then of course is no longer necessary. However, please note that the connected wire doesn't earth the flexible itself.

The connecting wire must be of such a quality that breaking is prevented as much as possible due the continuous movement of that wire by, for example, a sieve. To do this, use wires that do not bend easily but are a bit more stiff. Litz-like connections are quite sensitive to repeated bending which allows them to break quite easily.

Always connect an extra wire. This wire serves as a back-up, for when the sleeve breaks or is disconnected.

The following photo shows a flexible or manchet with suitable bonding wire.



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Date: 28/07/2026



Disclaimer

This declaration is based on Iburex consulting's report with report number EX16187/21, which is was provided to Filcoflex B.V. at December 12th in 2021.

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