



Hose Assembly & Installation Guidelines

High-purity stainless steel hybrid connector



ENGINEERED RELIABILITY FOR HYGIENIC PROCESS INTEGRITY

General information hose assembly & installation guidelines

In biopharmaceutical processing, hose assemblies are critical components that directly impact product quality, system reliability, and compliance. Improper installation can lead to premature wear, contamination risks, and operational inefficiencies.

At Romynox, we emphasize precision-engineered solutions and best-in-class installation practices. The following guidelines provide a clear framework to ensure optimal hose performance, extended service life, and full process integrity.

Design guide

Flow velocity

For all hoses, be sure the hose choice is built for the pressure and flow. A Romynox representative may help you with your choice. Extreme flow in corrugated hoses should be avoided as it may start to resonate vibration resulting in premature fatigue failure.

Pressure

Pressure capabilities can be found in our hose tables, these are based on constant pressures. For pulses, shock pressures you may want to contact Romynox for further information.

Safety factor

We suggest that the maximum working pressures be no more than 25% of the rated burst pressure of the hose assembly after correcting for service temperature. Circumstances may require safety factors greater than 4:1.

Abrasion

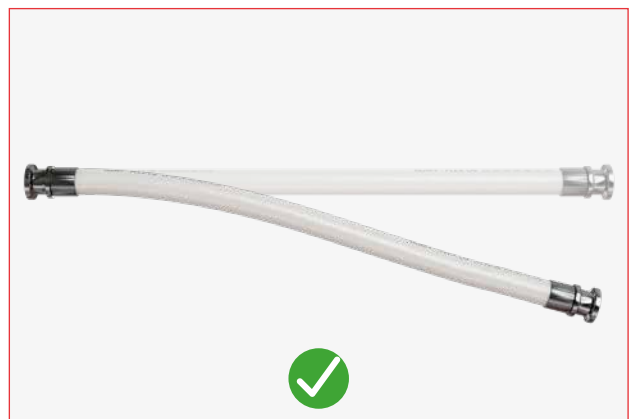
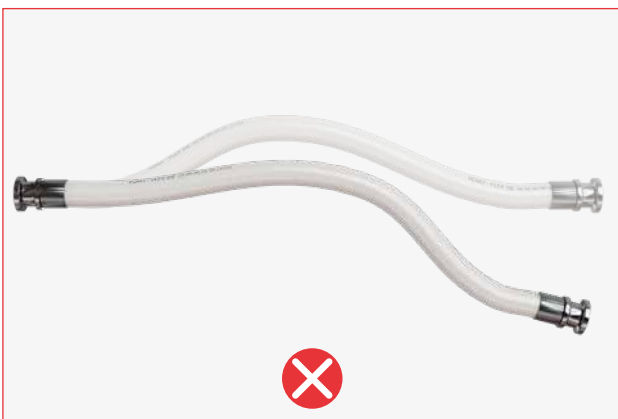
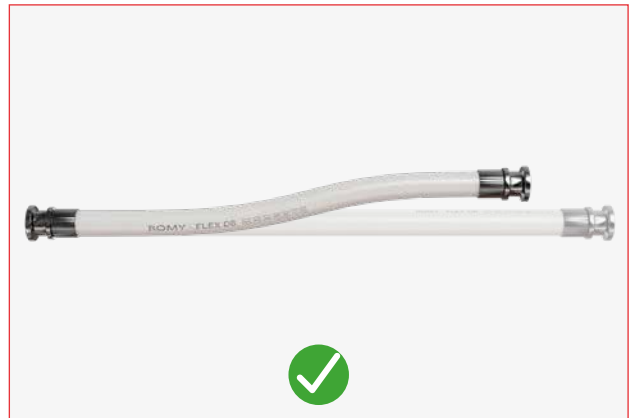
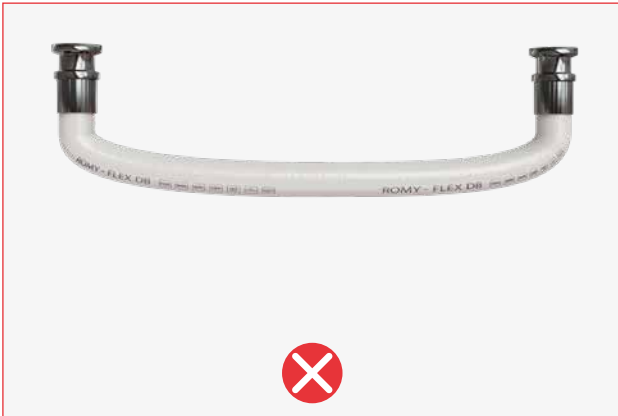
Hoses should be clear of contact with surrounding objects especially in motion, in case it can't be avoided we offer protection and hoseguides to avoid damage.

Length calculation

Check our website for more information or contact us via info@romynox.nl.

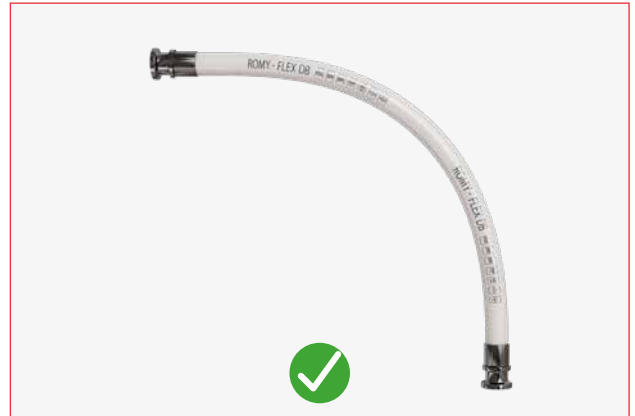
Length of hoses

Measure lengths for the usage, moving or permanent installations.

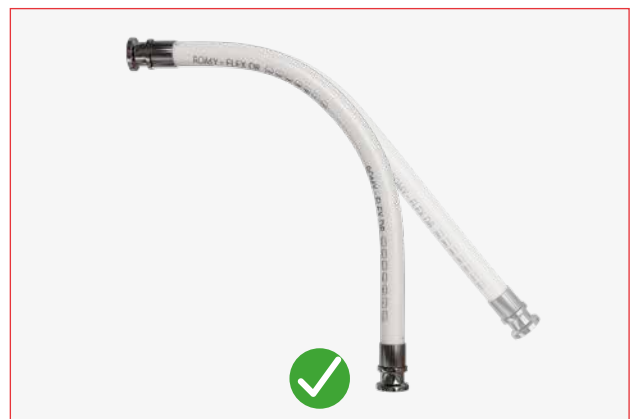
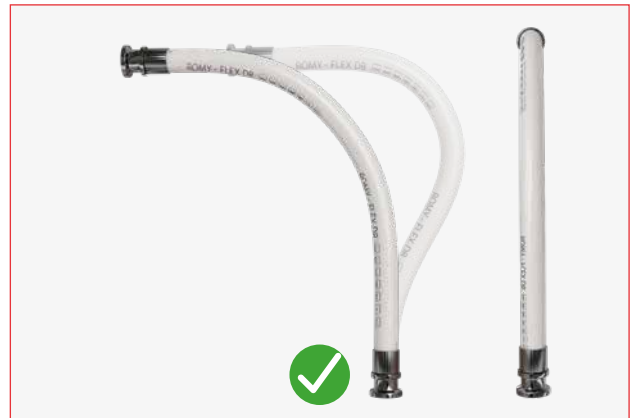


Twisting hoses

Use correct orientation when assembling.

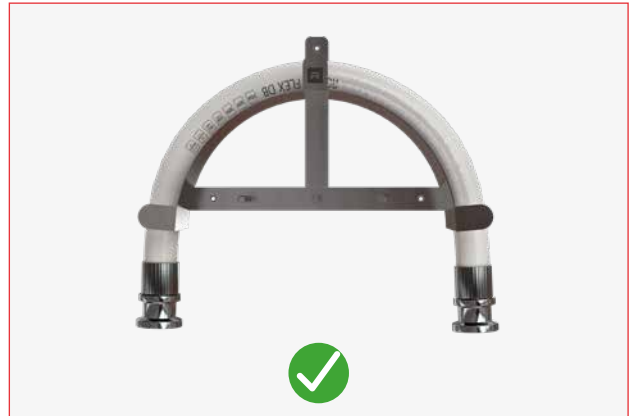
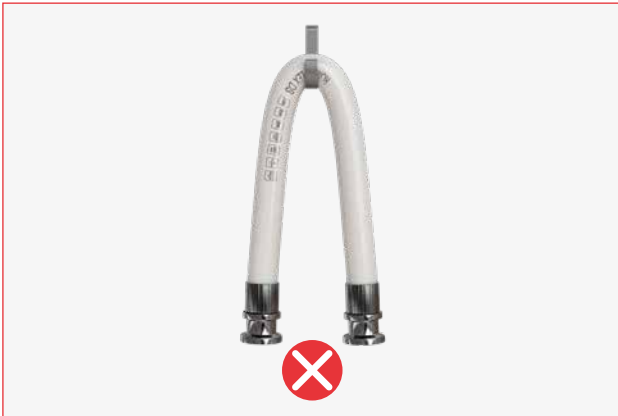


Move in the direction without twisting/wringing.



Hoses general

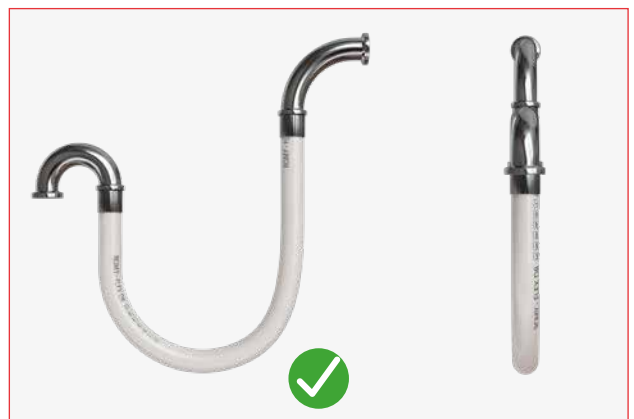
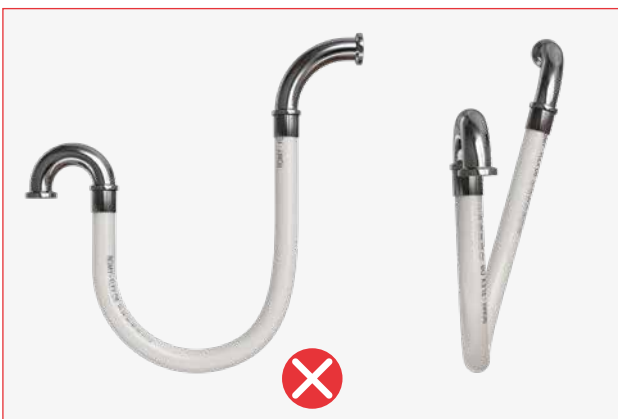
Hang without arching the bend radius too much.



Use a support to prevent sagging by its own weight.

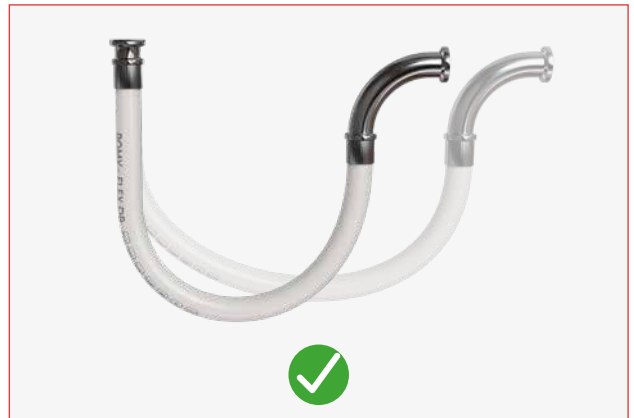
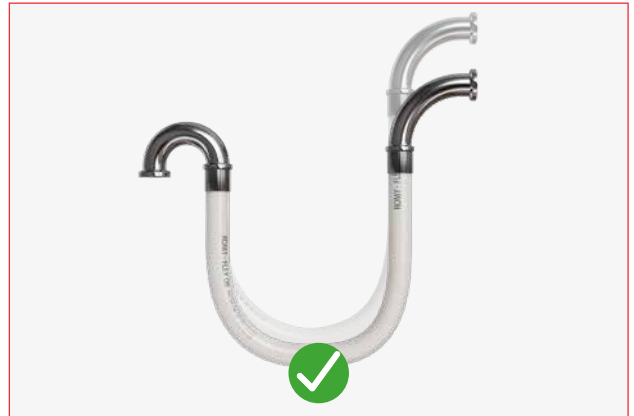
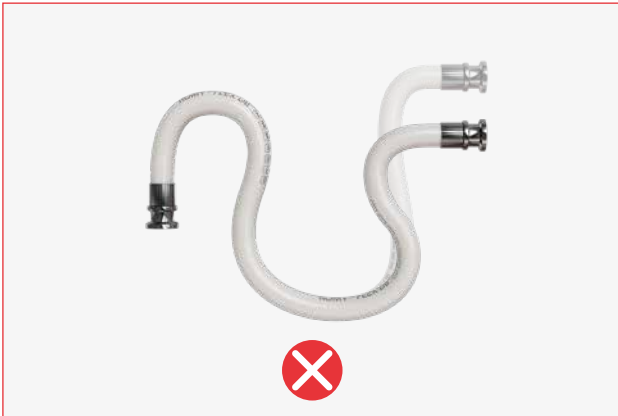


Avoid off-center assembly and diagonal movement, keep in the direction of the surface.

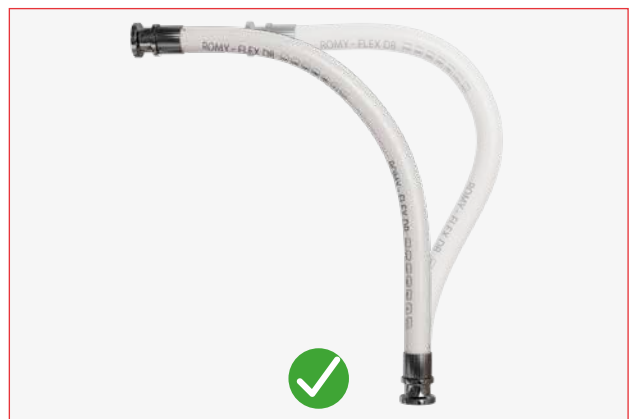


Hose bends

Lead movements with elbows to prevent overbending.

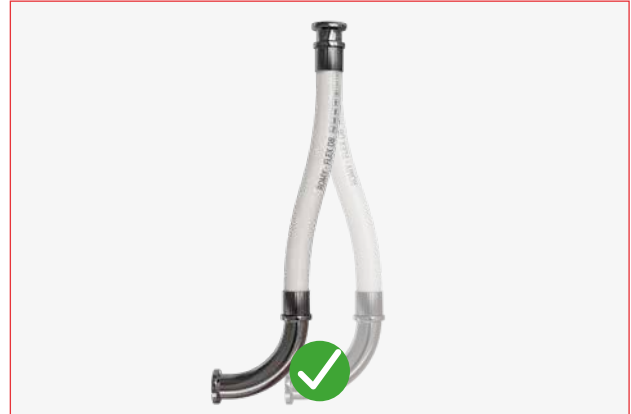
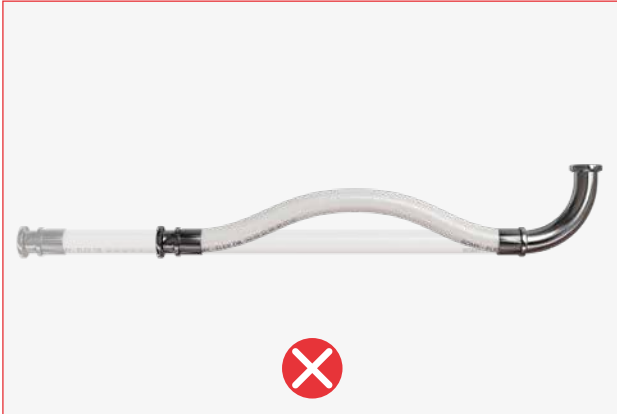


Prevent big lateral movements, use 90 degree assemblies.

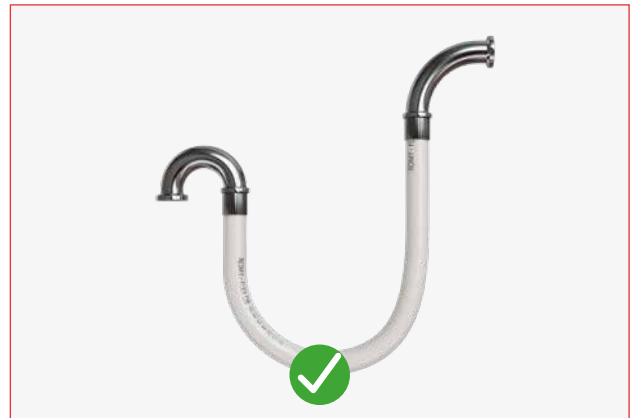


Movement hoses

Assemble perpendicular to the direction of the movement.
Prevent multiple movement directions with a single hose, use the plane of elbows.



'U' shaped absorb movements and vibrations better.



Testing

At Romynox we do a small up to (x bar) pressure test to ensure the fittings work correctly.
For higher demands we offer special 3.1 pressure test certificates up to 16 bar at 20°C.

Tolerances

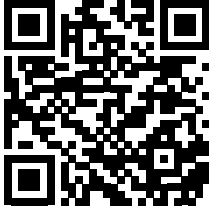
The standard tolerances at Romynox are depending on the type of hose, when tolerance are critical you can contact Romynox representatives to help with the right product.

Cleaning

For a medium in transfer, special cleaning practices can be necessary, for our corrugated tubing we offer Clean grade 4.

Need more Information

Scan the QR code to access the most up-to-date product resources, including manuals, technical documentation, and instructional videos. You can also request a quotation or contact one of our specialists for technical advice or additional information.



ISO 9001 | ISO 14001 | BREEAM | CO² AWARENESS CERTIFICATE



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So, what are you waiting for?
We want to connect with you