



SCHÖNN
Medizintechnik GmbH

SEISMIC EXPANSION JOINT FOR Ø108mm MEDICAL GAS PIPE



SEISMIC EXPANSION JOINT

SEISMIC 108mm U-FLEX HOSES

Seismic 108mm U-Flex hoses are the flexible stainless steel braided hoses and can be used widely in systems gas with their resistance to pressure and flexible structure. They are utilized for conducting gas, compensating the problems originated from installation, absorbing vibrations and expansions. With their variety of fitting options produced for almost every type of connections, they can be used as a ready-to-install assembly part in every connection point.

Standards

Our Seismic Flexible Hoses compatible with ASCE 7-02 Minimum Design Loads for Buildings and Other Structures Section 9-6 Earthquake Loads, Table 9.6.1.7 Seismic Design Category C.D.E.F

- The U-Flex Hoses are extremely critical accessories and used for protecting vital installations such as medical gas systems from seismic motion like earthquakes.
- This Seismic Connection Hoses provide flexibility to piping systems and used to absorb possible seismic movements in three axis.
- In addition to seismic protection, installation cost is lower comparing to conventional expansion joints considering lesser need for space and fixing points and ability for nested installations.
- Comparing to use expansion joints and conventional piping to absorb vibrations, imposing lesser load to main pipeline is one of their significant advantages.
- The hoses are engineered to move in all three planes, and is impart no thrust loads to system anchors.
- Materials of construction of the Schön U-Flexes are stainless steel Hose with stainless steel braid and copper ends.
- End fittings are made of copper and welded with %5 Brass.
- Seismic U-Flex hoses are designed to meet the design pressure, temperature, and movement requirements for the system.
- Hoses is capable of accommodating piping system and equipment movements and vibration as needed. Stainless steel flexible hoses, braided and their assemblies are designed to allow frequent movement or flexibility.
- Flexible hoses are the standard of the industry in braided connectors for copper piping. This style connector is constructed with Stainless steel hose & braid for high - pressure ratings.
- Flexible hose is offered with standard copper sweat/tube ends.
- Its nominal size is 108mm.



SEISMIC EXPANSION JOINT



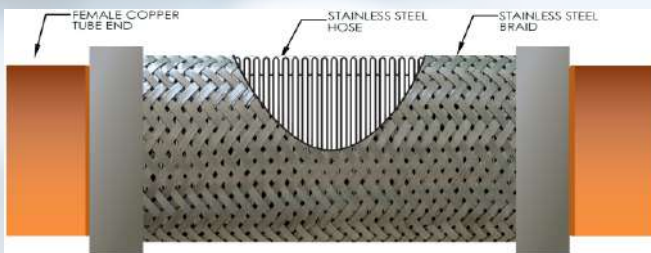
MOVEMENT

The Seismic U-Flex Hoses are generally used in four types of applications:

- To correct problems of misalignment
- To provide flexibility in manual handling operations
- To compensate for intermittent or constant movement
- To absorb vibration

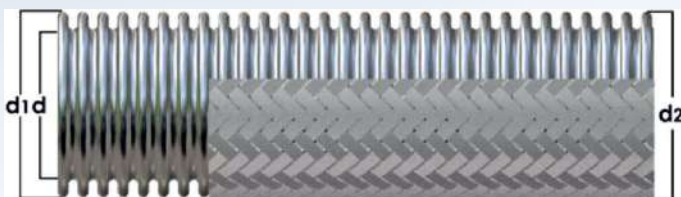
In all of these types, careful hose selection, design of the assembly, and installation are important for optimal service life. The flexibility of a hose is determined by its mechanical design and the inherent flexibility of its material.

- > "U" Design
- > Variety of sizes & end fitting combinations
- > Nested configurations
- > Maximum vibration absorption



Benefits:

- > Compensates for offset, lateral and axial motion
- > Saves space
- > Meets most installation requirements
- > Simplifies protection of multi-pipe runs
- > Seismic protection of equipment & piping



Dimensions					
	Inner Diameter	Outer Diameter		d d1 d2	
Product code	d	d1	d2	tol. (±)	Max. Working Pressure
SEISMIC U-FLEX-108mm	96,8	117	120	0.40	10 bar