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## THE ISOLATOR

As we step into the month of February, a warm embrace of love and innovation awaits us! We hope this newsletter finds you well and filled with the spirit of growth and positivity.

Greetings and welcome to February 2024 edition of 'The Isolator,' proudly brought to you by Kinetics Group of Companies. This month, we're thrilled to showcase the latest innovations and breakthroughs of Kinetics in UAE and Saudi Arabia. From cutting-edge technologies to exciting projects, we continue to push the boundaries of what's possible.

In YouTube, we request you to take your time to watch an video for Kinetics offers engineered solutions to control noise emanating from both sound sources, taking into account proper equipment operation, maintenance access and aesthetically pleasing appearance. Listen to this 20-min, prerecorded webinar, by John Sofra to learn more

## NOBLES RESIDENTIAL TOWER - BUSINESS BAY, DUBAI



Nobles Residential Tower involves the construction of a residential tower comprising 2 basement levels, a ground floor, 5 parking levels, 44 additional floors, 2 mechanical floors, and 2 roofs.

Kinetics Group played pivotal role in the project by providing comprehensive support to Tiger Contracting, serving as the primary supplier of a diverse range of Vibration Isolators and Inertia Base for the project.

Source: <https://air.bncnetwork.net>

## APARTMENTS BY MARRIOTT BONVOY - SINDALAH ISLAND DEVELOPMENT, SAUDI ARABIA



The project involves the construction of Apartments by Marriott Bonvoy within Sindalah Island Development. The project will feature studio to three-bedroom units with separate living rooms, full kitchens, and in-unit washer and dryers. The property aims to cater to travelers seeking residential amenities and will include a fitness center and swimming pool.

As a trusted partner in noise and vibration control solutions, Kinetics Group is proud to support Romeo Interiors Factory LLC in supplying Flexible Connector, Vibration Isolation and Seismic Restraints for this prestigious venture. Our expertise will be instrumental in ensuring the smooth operation and longevity of the mechanical systems within the Apartments by Marriott Bonvoy on Sindalah Island.

Source: [https://air.bncnetwork.net/company\\_details/Romeo\\_Interiors\\_Factory\\_LLC/MTc1NjA5](https://air.bncnetwork.net/company_details/Romeo_Interiors_Factory_LLC/MTc1NjA5)





# TECHNICAL DISCUSSION:

## HOW TO MITIGATE NOISE AND VIBRATION IN MECHANICAL ROOMS

Mitigating noise and vibration in mechanical rooms is crucial to ensure the efficiency, safety, and comfort of both equipment and occupants. Here's a technical discussion outlining key strategies for noise and vibration control in mechanical rooms:

### 1. Vibration Isolation

The use of vibration isolation helps absorb vibration from the pumping system and it will not allow the noise level to propagate into the lower floors.

### 2. Inertia Base

By installing inertia base into your pumping system, this will allow to support and help distribute the load weight of the machine so that the equipment won't topple over or make unnecessary lateral and axial movement.



Source: <https://kineticsnoise.com/bases-frames>

## PRODUCT HIGHLIGHT:

# KINETICS – SSBH– ST.STEEL BRAIDED FLEXIBLE CONNECTOR

### DESCRIPTION

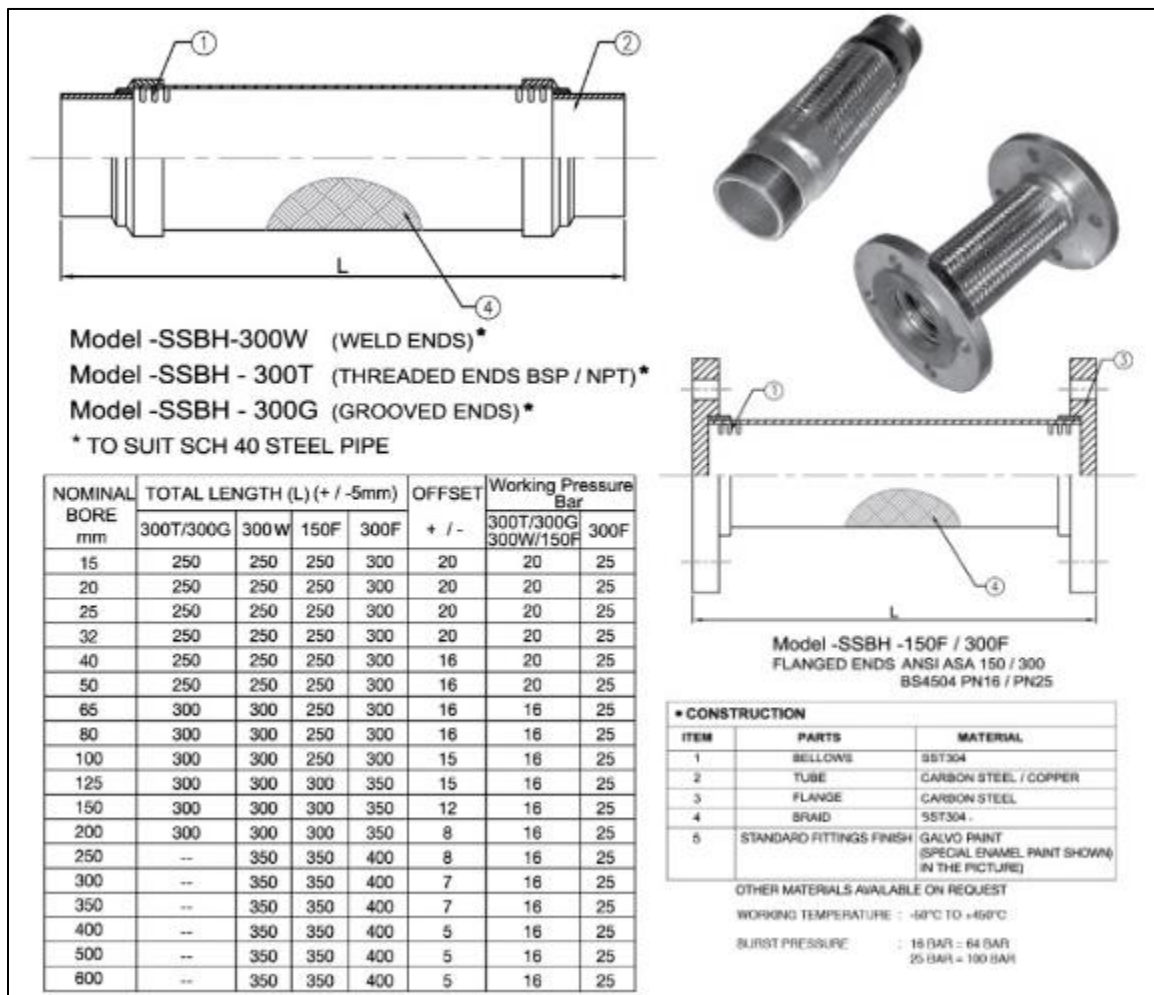
SSBH-150F-300F – ST.STEEL BRAIDED FLEXIBLE CONNECTOR Prevent stresses due to piping misalignment. Metallic Flexible Connectors are formed of corrugated stainless tube reinforced by stainless steel wire braid.

### APPLICATIONS

Air Conditioning Heating And Ventilating Systems. KINFLEX Flexible Connectors eliminate stresses caused by changes in temperature, piping misalignment, as well as reducing the transmission of noise and vibration. They are on both hot and chilled water circulation lines, suction and discharge sides of pumps, and header connections.

### KINFLEX MARINE SYSTEMS:

Flexible connectors isolate marine systems against the transmission of noise vibration and eliminate the destructive action of electrolysis. They are used on suction and discharge sides of circulating water cooling systems and air intake lines on diesel engines.



Source: <https://kineticsgroup.ae/product/ssbh-150f-300f-st-steel-braided-flexible-connector/>

## Kinetics YouTube –

### Air Cooled Chiller Composite Noise Control Solution

Noise emanating from air-cooled chillers into critical areas: screw compressors (bottom sides of unit) generate mid/hi frequency noise; up-blast fans (top of unit) generate low/mid frequency noise. A common approach is to control noise from only one of these noise sources. Kinetics offers engineered solutions to control noise emanating from both sound sources, taking into account proper equipment operation, maintenance access and aesthetically pleasing appearance. Listen to this 20-min, prerecorded webinar, by John Sofra to learn more.

<https://youtu.be/7tirgh8A8G0> 

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