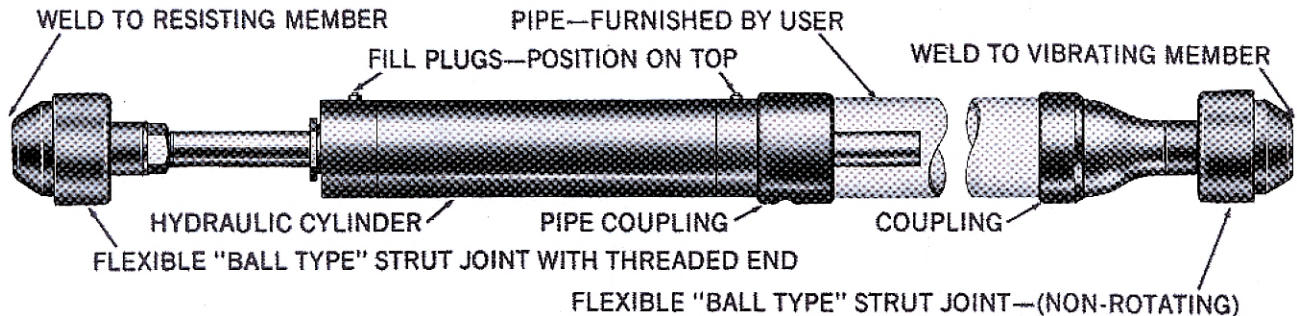


HYSPAN BARCO STRUT JOINTS AND VIBRASNUBS

Vibrasnob™ Hydraulic Vibration Snubbers



HYSPAN BARCO "Vibrasnob" Hydraulic Vibration Snubbers function as a stop or restraint for dynamic vibration and shock loads. These rapid movements may (or may not) be accompanied by slower natural movements, like thermal expansion or contraction. Rapid vibration movements are absorbed by the snubber assembly. More gradual thermal movement is accommodated by bypassing hydraulic fluid through a restricted orifice in the piston of the snubber cylinder. The "Ball Type" Flexible Strut Joints on each end of the assembly permit a $\pm 10^\circ$ alignment movement to eliminate binding. Increased angulation available some sizes.

The "Vibrasnob" snubber is designed to be used to control dynamic vibration and shock loads. For continuously applied static loads, use **HYSPAN BARCO** "Ball Type" Flexible Strut Joints (see pages 3 through 4).

Advantages:

Lower cost — Simplicity and long life, with minimal maintenance compared to other types of vibration and shock control mechanisms.

Reliable, long service life — Proven superior through years of testing and installed use.

Fast, positive action — Resist and dampen shock and vibration loads instantaneously.

Eliminates binding — Permit $\pm 10^\circ$ angular and conical movement of supported structure while dampening vibrations and shock loads.

Handles slower, thermal and seismic movements — Only a nominal pressure drop created across the bypass orifice against slower thermal movements.

Simplifies design and installation — Compared to other more complicated motion control systems.

NOTE: The reaction of "Vibrasnob" snubbers to total applied loads with respect to travel and vibration are shown in the graphs on page 11. Any applications which fall outside of the range of this data should be referred to Hyspan.

Engineering Data

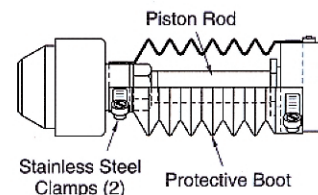
How to Install "Vibrasnob" Snubbers

The "Vibrasnob" assembly can be installed in any position from horizontal to vertical. They should be used in pairs with an acute (less than 90°) interior angle. If only one snubber is installed, it must be installed directly in line with the thrust force and the moving member must be guided to eliminate any possible lateral movement.

The Strut Joints at the end of each "Vibrasnob" assembly can be welded to pipe or steel structure. The anchor points should be designed to withstand the total loadings and minimize secondary vibrations.

The "Vibrasnob" cylinder should be isolated from heat (or hot member of structure) with the pipe extension toward the heat source to prevent cylinder temperature from exceeding $+150^\circ\text{F}$ ($+66^\circ\text{C}$).

Available Option



Neoprene boot to protect exposed piston rod area against damage from dust, weather and corrosive atmosphere.