

Note: All published guide spacing recommendations are for horizontal pipe. Risers develop loads differently than horizontal pipe. Please consult [“Understanding The Dynamic Of Riser Design In Skyscrapers”](#) white paper found on www.metraflex.com, or consult Metraflex if you need assistance determining guide spacing for risers.

General

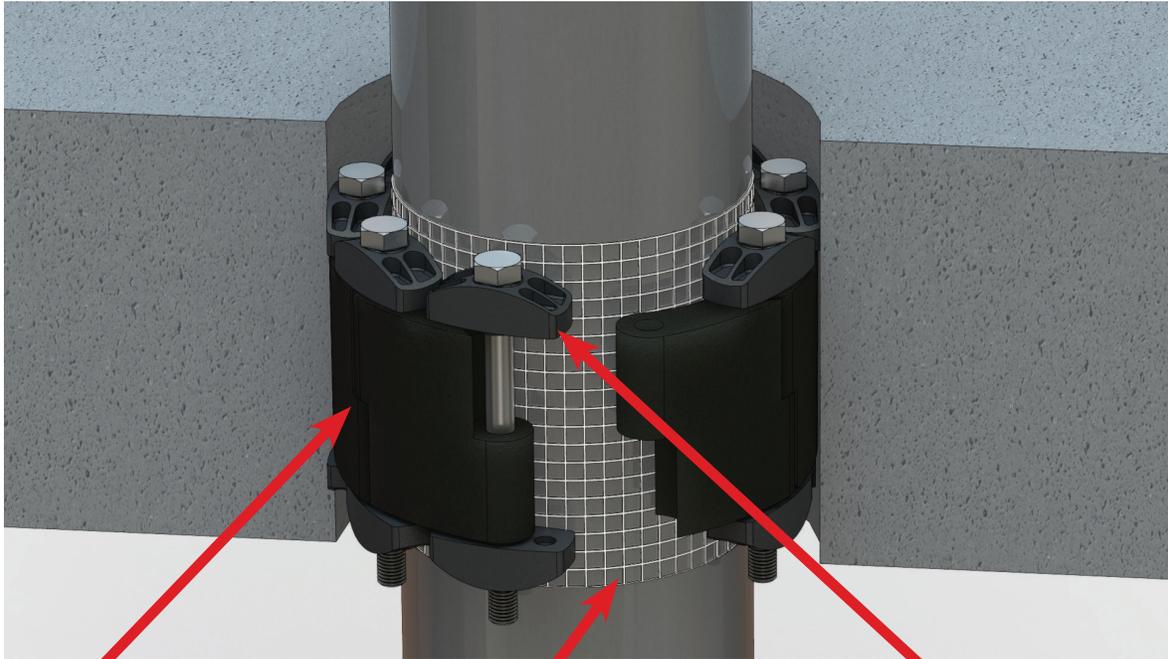
1. The Metraflex Modular Riser Guide is a modular guide made up of a belt made from links of elastomer. The belt is inserted into an opening with the wire mesh screen around a pipe. When the bolts are tightened the elastomer bulges, forming a guide that isolated pipe noise and vibration from the structure.
2. The Modular Riser Guide can be installed in concrete walls, floors, or ceilings with a minimum thickness of 4-1/2”. This unique design permits unlimited axial pipe movement. The surface of the pipe over the length of the area that will slide through the seal must be in an “as supplied from the factory” condition. Remove any weld splatter, or protrusions. Pipe insulation may be butted directly up to the installed seal assembly.

Application: Ensure that the correct rubber belt material has been selected for the application. For most applications, the EPDM belt will be the preferred selection. See seal options table below.

Belt Options

Model	Elastomer	Hardware	Pressure Plates	Temp	Application
E	EPDM	Carbon Steel with Zinc Dichromate plating	Fiberglass Reinforced Plastic	-40 to +250° F	Suitable for most applications Above ground and buried
ES	EPDM	Stainless Steel	Fiberglass Reinforced Plastic	-40 to +250° F	Suitable for most applications Ideal for corrosive environments
P	Nitrile	Carbon Steel with Zinc Dichromate plating	Fiberglass Reinforced Plastic	-40 to +210° F	Ideal for use for exposure to Hydrocarbons
PS	Nitrile	Stainless Steel	Fiberglass Reinforced Plastic	-40 to +210° F	Ideal for use for exposure to Hydrocarbons and corrosive environments
HT	Silicone	Carbon Steel with Zinc Dichromate plating	Carbon steel Dichromate plating	-40 to +400° F	Ideal for use for high temp applications

Modular Riser Guide Components:



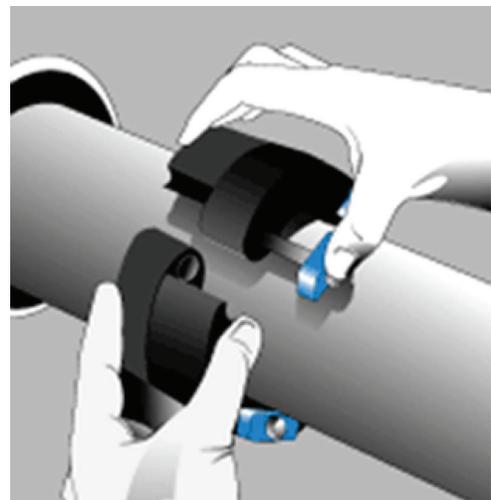
Rubber Belt

Wire Mesh Side Belt

Pressure Plates

Installation

1. The standard Modular Riser Guide is designed for pipe centered in a core drilled hole or floor sleeve. If the pipe is not centered a Metraflex Off Center Riser Guide must be used.
2. Wrap the wire mesh slide belt around the pipe followed by the rubber belt. Connect the first and last links of the rubber belt. Confirm that the curve of the rubber links, and the curve of the pressure plates is in the same direction as the curve of the pipe.

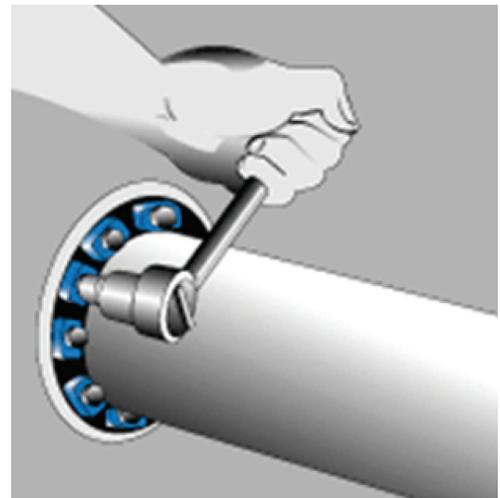


Installation Cont.

3. Slide the assembly into the opening between the pipe and core drill hole / wall sleeve.
4. The wire mesh slide belt should extend $\frac{3}{8}$ " to $\frac{1}{2}$ " outside the rubber belt.



5. Make sure that the bolt heads will be accessible after installation and recessed into the wall sleeve or core drill as shown below.
6. Gradually and sequentially tighten the bolts. Tighten each bolt 2 to 3 turns making multiple passes completely around the pipe until the seal is secure. You should see the rubber links bulge out between the pressure plates.



Precautions

1. Make sure that the bolt heads are accessible for future service.
2. Periodically inspect Modular Riser Guide to insure proper operation.

Maintenance: Modular Riser Guide has no serviceable parts and does not require maintenance.

Contact Metraflex or your local Metraflex Representative with any questions.