



Young Regulator Co.

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Submit 301-FS – 1-10

Flex Shaft Assembly

Damper - RAD

Flexible Steel Shaft - FS-XX • Termination - PLBR

Application and Design

Flexible shafting is a direct, mechanical method for transmitting rotary motion between two points.

The model RAD Radial Sliding Dampers are engineered for supply and return air distribution in heating, cooling and ventilation applications. The incremental shutter closure design permits precise control and does not interfere with diffuser air patterns. The bow tie steel shutters fan open or closed about a cast pivot. They are actuated from an opening in the diffuser using a Phillips head screwdriver to rotate the pivot head that is coupled through a flexible steel shaft.

RAD DAMPER

Model RAD damper shutters are made of galvanized steel for maximum strength, corrosion resistance and dimensional stability. They have a standard mill finish. Dampers are available in even neck sizes from 6" to 12".

FLEXIBLE STEEL SHAFT

The flexible steel shaft is a single wire around which successive multi-stranded layers of wire are wrapped. It is .250" in diameter, has a brass finish, and is capable of delivering more than 50# of torque without damage. The standard shaft length is 12". Other lengths available, contact the factory. The minimum operating radius is 6".

TERMINATION - PLBR

The flexible steel shaft is coupled to the pivot head of the radial damper. The shaft is carried down inside the plenum and terminated to the PLBR. The PLBR is a simple mounting bracket that allows operating the damper by turning the Phillips head screw.

