

# Dampers Style Easy Slide Dampers

## Style 330 ES (Easy Slide) Low Friction Slide Dampers

Composites USA has introduced a major innovation with its Style 330 ES thermoplastic trimmed slide gate dampers.

Slide gate dampers are preferred in a number of applications over alternative styles for use in modulating flow and as isolation valves.

One drawback amongst many damper designs is the blade's tendency to stick and jamb. Another problem can occur due to liquid trapped in the low spot of the damper due to excessive corrosion in the bottom of the pocket. Still a third major problem is leakage at the blade slot, which in some major semiconductor installations has been measured at 7-10% of total system leakage.



### ***Composites USA has addressed all these and more with the Style 330 ES.***

By incorporating a thermoplastic lined dual laminate system, we've manufactured a blade with the lowest coefficient of friction of any on the market. Both the pocket and the mating surface on the blade is lined with thermoplastic sheet lining of at least 0.060" (1.5mm). Thermoplastic liners are available in any of the materials currently in use for our dual laminate equipment, including PP (standard on Class 1 systems, Kynar, Halar® (standard on FM Approved **Dual Guard** systems), and Teflons.



Use of the thermoplastic liner dramatically reduces binding and sticking during blade adjustment. Additionally, the low spot in the track is now lined with the same thermoplastic sheet liner. Optionally, flush or drain connections can be added for an additional level of security.

To address the problems associated with blade leakage to atmosphere, Composites USA has developed a double flange cap with wiper seal. A flexible elastomeric seal is sandwiched between mating flanges to eliminate leakage up the blade. The elastomer seal can come in material options to meet the customer's needs, but is offered as standard neoprene on Class 1 systems, and Viton on Dual Guard systems. Other materials such as EPDM, Hypalon and gum rubber are also available.



**Double Flange Cap  
with Wiper Seal**

Other advantages of the Style 330 ES include our outboard mounted stainless steel spring clamps for holding adjustment positions without the need to drill and tap inserts into the valve body, risking corrosion at the insert and cutting into the blade. The clamps are manipulated by hand without the use of tools, and the rubber tipped pin does not cut into the blade materials which could contribute to long term use problems.

Actuation is also an option with the Style 330 ES. The actuator framework is simply bolted to the existing top flange, using either the existing flange bolt holes or field drilling new holes as required. Low profile mounting with dual actuators off the side of the body may also be provided if specified. Composites USA can supply either electric or pneumatic actuators for either on/ off or positioning control.

Contact Composites USA today for additional details and design options.