

Red Valve Company's knife gate valve is proven in sludge and wastewater service. Our customers will attest that there is limited or no maintenance required when using our knife gate valve. When Red Valve Company designed its slurry knife gate valve, we had the maintenance and operations personnel interests in mind. The two key areas where Red Valve's Knife Gate Valves are superior are; the seat design and the packing gland design.

Seats

Unlike all other knife gate valves, the Red Valve seats are external to the valve body. Because knife gate valves are typically used for isolation purposes, we expect the seat life to be 18 to 20 years.

In the event the seats need replaced, the Red Valve design allows the operator to remove all of the bolts but one and swing the valve out of line. The old seats can quickly be replaced with new replacement seats. Once done, the valve can be rotated back into position.

Below, we illustrate how the seat replacement is achieved.



Our Competitor's design requires that their valve be pulled-out of line. Then the gate and packing needs to be removed in order to access the seat for replacement. This is far more labor intensive and time consuming.



The Red Valve seats function as a wiper blade to keep the sludge in the pipeline. When the gate opens, the seats wipe the face of the gate on both sides preventing grit and sludge from getting up into the packing gland. Each seat is steel reinforced rubber and not merely an edge seal or "O" ring. Our seats provide zero leakage bi-directionally.