

## Pneumatic knife gate valve in Sharjah

Middleeast Valve is a well-known supplier of [Pneumatic knife gate valve in Sharjah](#) . We supplies different types of valves to different countries like Qatar, Kuwait, Oman.

A pneumatic knife gate valve is a type of industrial valve used to control the flow of various types of fluids, including liquids and solids in slurry form, by using compressed air or gas to operate the valve mechanism. It is particularly suited for applications involving dense or abrasive media that might clog or damage other types of valves.

The basic working principle of a pneumatic knife gate valve involves using compressed air or gas to move the gate (a flat piece of metal or other material) across the path of the fluid flow to either block or permit its passage.

- Open Position: When the valve is in the open position, compressed air is introduced into a pneumatic cylinder. This air pressure causes a piston inside the cylinder to move, which in turn pushes the gate out of the way, allowing the fluid to flow through the valve unobstructed.
- Closed Position: To close the valve, the supply of compressed air to the cylinder is cut off or released. This allows the gate to be pushed back into its closed position under the influence of gravity or a spring mechanism. The gate effectively seals off the flow path, preventing the fluid from passing through.

Middleeast valve is a topmost [Pneumatic knife gate valve in Sharjah](#). Pneumatic knife gate valves can be actuated using either single-acting or double-acting pneumatic actuators, which use air pressure to move the valve's gate element. They are available in a range of sizes and materials to suit different applications.

Description:

Available materials: WCB,WC6,WCC,LCB,LCC,cast iron, Ductile Iron,SS316,SS304

Size: 2”to 80”

Class: 150 to 300

Nominal pressure:PN6 to PN40

Operation: pneumatic knife gate valve

Ends: wafer, lug, flanged

Configuration of a Pneumatic Actuator:

- 4-20 amp
- Pneumatic single acting actuators
- Pneumatic double acting actuators

- Pneumatic rotary actuators
- Pneumatic Scotch and Yoke actuators
- Pressure: 228 bar

Temperature:

- Standard -4°F to 200°F (-20°C to 93°C)
- Low -40°F to 176°F (-40°C to 80°C)
- High 0°F to 300°F (-18°C to 149°C)

Pneumatic knife gate valves are used in various industries, such as mining, wastewater treatment, pulp and paper, chemical processing, and more. They are particularly useful in applications involving:

- Slurry and Abrasive Media: The knife gate design prevents clogging and damage that might occur with other types of valves when dealing with media containing solids or abrasive particles.
- Thick and Viscous Fluids: These valves can handle fluids with high viscosities or consistencies, which might be difficult for other valve types to manage effectively.
- Partial Flow Control: While knife gate valves are mainly designed for on/off control, they can provide some degree of flow regulation, although not as precise as control valves designed for this purpose.
- Cost-Effectiveness: Pneumatic knife gate valves are often chosen due to their relatively lower cost compared to more complex control valves, making them suitable for applications where fine-tuned control isn't necessary.

Application:

1. Water treatment
2. Mining
3. Chemical processing
4. Power generation
5. Pulp and paper

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