

# Cryogenic Gate Valve Supplier in Dubai



UAE Valve is a trusted [Cryogenic Gate Valve supplier in Dubai](#), providing high-performance valves designed to handle extremely low-temperature applications. These valves are used in controlling the flow of cryogenic substances such as liquefied natural gas (LNG) and liquid nitrogen, among others.

These valves are designed for rough environments and meet the need for stable control of such processes at extremely low temperatures, if necessary. Cryogenic gate valves are designed to operate at sub-zero temperatures, thus being useful in industries that use products at very low temperatures.

## **Working Mechanism**

Cryogenic gate valves work under the principle of lift and drop of a gate contained in the valve body to regulate the flow of cryogenic fluids. The

gate is oriented across the movement of liquid which closes off flow when in the shutdown position and maintains full flow when in the open position. The bonnet on the valve is longer to minimize the exposure of the operator to cold conditions to enhance safety while operating the valve. In this kind of gate valve, some approved materials are used so that they can resist very low and even unfavorable temperatures, so they do not deform or increase leakage.

### **Key Design Features**

- **Extended Bonnet:** Originally used in protecting the valve stem and operator in cold temperatures when operating the valve.
- **Durable Materials:** Made from materials that are characterized by high resistance to wear and tear, especially when used at low temperatures.
- **Tight Sealing:** The gate is seal-tight, meaning there is no likelihood of fluid leakage, making it safe.
- **Full Bore Design:** It enables fluid flow without obstruction, thus allowing very low-pressure drops across the valve.
- **Low-Temperature Resilience:** Designed to withstand cryogenic services, providing longevity of service.

As a renowned [Cryogenic Gate Valve supplier in Dubai](#), UAE Valve provides fully engineered products that are built to have both strength and accuracy to cater to the harshest environments.

### **Advantages of Cryogenic Gate Valves**

- Excellent sealing performance, preventing refrigerant loss at low temperatures.
- Resistant material, designed to work under cryogenic conditions.
- Extended bonnet for safe operation in extreme cold.
- Full bore design, ensuring very low-pressure drops.
- Resistance to harsh and extreme low-temperature conditions.
- Long-lasting, corrosion-resistant materials.

## Industries Served

- Oil and Gas
- Chemical Processing
- Power Generation
- LNG Terminals
- Marine Industry
- Petrochemical Industry

## Description:

- **Available materials:** SS306, SS904, SS316, Aluminium Bronze, Monel, Bronze, Brass, Duplex Steel, Inconel, Incoloy, Titanium, WCB, CF8, CF8M, CF3, CF3M, WC1, WC6, WC9, Cast Iron
- **Size:** 1/2"- 64"
- **Class:** 150 to 2500
- **Nominal Pressure:** PN10 to PN450
- **Operation:** Hand Wheel, Gear Operated, Electric, and Pneumatic Actuated
- **Ends:** Flanged, Buttweld, Socketweld, Threaded
- **Standards:** ASME, API6D, API607, DIN, BS, ANSI, AWWA

Our valves are not only efficient but also safe during operation regardless of the climate conditions. Based on what we have learned and gained in this field, we provide the best cryogenic valve services with a focus on performance and safety.

To explore our full product range, visit:

<https://www.uaevalves.com/product-category/cryogenic-gate-valve/>

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