FIRE HYDRANT VALVE

Frozenfire Single Headed & Double Headed Hydrant Valve

Product Description



The Frozenfire Hydrant Valve is a robust, high-performance fire hydrant outlet valve designed to provide a reliable water discharge point for firefighting operations. Manufactured in accordance with applicable national and international fire protection standards, the valve is engineered for long service life, smooth operation, and dependable performance under demanding industrial and municipal conditions.

Available in Single Headed and Double Headed configurations, Frozenfire Hydrant Valves are widely used in fire hydrant systems installed in commercial buildings, petrochemical plants, refineries, power plants, airports, marine facilities, warehouses, industrial complexes, and municipal fire protection networks.



Constructed from high-quality gunmetal and stainless steel with corrosion-resistant internal components, the valve ensures excellent resistance against corrosion, wear, and high operating pressures. The precision-machined valve seat provides leak-proof shut-off while allowing quick opening during emergency firefighting operations.

The ergonomically designed handwheel enables smooth manual operation with minimum effort, while the instantaneous coupling outlet allows rapid connection of fire hoses for immediate water supply.

Features

- Heavy-duty construction for long operational life
- Available in Single Outlet and Double Outlet designs
- Smooth handwheel operation
- Leak-proof valve seating
- Corrosion-resistant body and internal components
- Precision machined spindle and valve mechanism
- Suitable for indoor and outdoor installations
- Quick hose connection through instantaneous coupling
- Low maintenance requirements
- Excellent hydraulic performance
- Designed for high-pressure fire protection systems
- Long-lasting sealing arrangement
- Rugged construction suitable for industrial environments

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Construction

- Body : Gunmetal / Stainless Steel (Optional)
- Bonnet : Gunmetal / Stainless Steel
- Stem : Stainless Steel
- Valve Seat : Gunmetal / Stainless Steel
- Washers : Neoprene Rubber
- Handwheel : Cast Iron
- Outlet : Instantaneous Female Coupling
- Finish : Red Epoxy Powder Coated or Painted

Working Principle

During normal conditions, the hydrant valve remains in the closed position, preventing water discharge from the fire main.

When firefighting is required, a fire hose is connected to the outlet coupling. Rotating the handwheel in the opening direction lifts the valve disc from its seat, allowing pressurized water to flow through the valve body and into the connected hose.

The smooth internal waterway minimizes pressure losses and provides efficient water delivery to branch pipes, nozzles, or monitors.

After firefighting operations are completed, rotating the handwheel in the opposite direction reseats the valve disc, providing a tight and leak-free shut-off.

Single Headed Hydrant Valve

The Frozenfire Single Headed Hydrant Valve is designed with one outlet connection for supplying water to a single fire hose line. It is suitable where one hose line is sufficient for fire suppression operations.

Applications

- Commercial Buildings
- Residential Complexes
- Hospitals
- Hotels
- Shopping Malls
- Educational Institutions
- Warehouses
- Industrial Plants

Advantages

- Compact design
- Easy installation
- Lower maintenance
- Reliable water delivery
- Cost-effective solution

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Double Headed Hydrant Valve

The Frozenfire Double Headed Hydrant Valve incorporates two independent outlet connections, allowing simultaneous operation of two hose lines from a single hydrant point.

Each outlet is individually controlled, enabling firefighters to operate one or both hose lines depending on operational requirements.

Applications

- Refineries
- Petrochemical Plants
- Tank Farms
- Airports
- Marine Facilities
- Power Stations
- Heavy Industries
- High Hazard Occupancies

Advantages

- Simultaneous dual hose operation
- Faster fire attack
- Increased water delivery capacity
- Improved operational flexibility
- Enhanced firefighting efficiency

Typical Technical Specifications

Parameter	Specification
Valve Type	Single Headed / Double Headed Hydrant Valve
Standard	Single Headed IS: 5290, Type-A, ISI Marked Double Headed Type-B,
Nominal Inlet	80mm / 100 mm (Typical)
Outlet Connection	63 mm Instantaneous Female Coupling
Working Pressure	Up to 7 Bar
Hydrostatic Test Pressure	24 Bar
Body Material	Stainless Steel / Gun Metal
Parts Material	Stainless Steel / Gun Metal
Washers	Neoprene Rubber
Finish	Red Epoxy Powder Coating
Operation	Manual Handwheel
Installation	Vertical Hydrant Stand Post / Landing Valve

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Maintenance Procedure

To ensure reliable operation, regular inspection and maintenance should be carried out:

- Inspect the valve body for corrosion, cracks, or mechanical damage.
- Operate the handwheel periodically to prevent spindle seizure.
- Check for leakage around the gland packing and outlet connections.
- Lubricate the spindle threads with a suitable waterproof grease.
- Inspect the valve seat and replace worn seals if leakage is observed.
- Ensure the outlet cap, chain, and coupling are securely fitted.
- Verify that all markings and operating instructions remain legible.
- Perform periodic pressure testing in accordance with applicable fire protection standards.

Applications

Frozenfire Single and Double Headed Hydrant Valves are suitable for:

- Oil & Gas Facilities
- Petrochemical Industries
- Chemical Processing Plants
- Fire Water Networks
- Commercial Buildings
- Industrial Manufacturing Facilities
- Warehouses & Logistics Parks
- Airports
- Marine & Port Installations
- Power Plants
- Pharmaceutical Industries
- Municipal Fire Protection Systems

Frozenfire Quality Assurance

Frozenfire Hydrant Valves are manufactured under stringent quality control procedures and undergo hydrostatic pressure testing, dimensional inspection, leak testing, and functional performance verification to ensure dependable operation during emergency firefighting situations. Designed for durability, safety, and ease of operation, Frozenfire Hydrant Valves provide a reliable water supply connection for modern fire protection systems across industrial, commercial, and municipal applications.

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