



FLUID VALVE MANUFACTURING COMPANY
ISO 9001:2015



NEW PRODUCT BY

Deluge Valve

TYPE:-

Straight Type Deluge Valve

Angle Type Deluge Valve (90 Degree Pattern)

Straight Type Deluge Valve

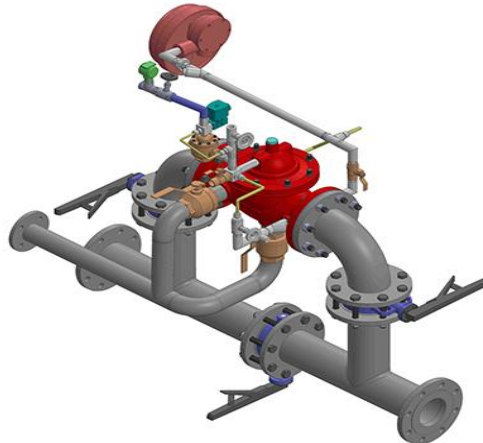
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Manufacturer & Exporter of World Class Updated Technology and the best possible quality Automation and Industrial Valves for any pressure, services & connections for industries like Gas, Water, Pharmaceutical, Chemicals, Petro-chemicals, and many more.

FLUID VALVES INDIA PVT LTD are intended to deliver large quantities of water over a large area in a relatively short period of time. The FLUID Deluge Valve is to 250 psi G. (17.5 bar) in sizes 2", 2½", 3", 4", 6", 8", 10", (50,65,80, 100, 150,200 & 250 MM). The FLUID deluge Valve is compact, lightweight, and is provided with a preassembled trim - all of which minimize the installation time and make it simple and easy. The FLUID Valve opens fast, yet smoothly, preventing water hammer. The FLUID Valve design prevents false tripping and it can be reset by a thumb-activated knob.

The **FLUID VALVE DELUGE Valve** is designed to allow for a variety of detection and release systems:

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Features

A deluge fire sprinkler system is similar to a pre-action system except the sprinkler heads are open and the pipe is not pressurized with air. Deluge systems are connected to a water supply through a deluge valve that is opened by the operation of a smoke or heat detection system. The detection system is installed in the same area as the sprinklers. When the detection system is activated water discharges through all of the sprinkler heads in the system. Deluge systems are used in places that are considered high hazard areas such as power plants, aircraft hangars and chemical storage or processing facilities. Deluge systems are needed where high velocity suppression is necessary to prevent fire spread.

Deluge Fire Sprinkler Systems differ from conventional Fire Sprinkler Systems in the sense that all nozzles employed in the system are open and when water is released into the system it flows from all discharge devices. As such, this special type of system is generally found within industrial type hazards that require the application of water over a large hazard or area. The control of water is accomplished by the use of a Deluge Valve which is a device that prevents water from entering the system piping until required. A detection system which may incorporate the use of heat, smoke, or flame detectors is used to open the Deluge Valve when a fire or its products of combustion are detected. All system piping is filled with water which discharges from the open sprinklers and nozzles used in the system. In addition to the application of water some deluge systems will incorporate the use of a foam concentrate to mix with water and form a foam solution which can then provide a protective blanket of foam to help control the development of a fire.

Deluge Fire Sprinkler systems protect extra hazard occupancies that require significant amounts of water to cool and control the growth or development of a fire. Typically they are employed on hazards that contain low flash point flammable liquids or hazards with large amounts of combustible liquids. These types of hazards may include, oil extraction processes, transformers, tank or vessel protection, distillation processes. Water or Foam Deluge systems are used in the protection of large Aircraft Hangars as one primary means of fire protection.

Application

- Deluge Valve FLUID make
- Fast application of water in spray, pre-action and foam system
- Cast Steel ASTM A216 WCB construction
- Size: 50, 65, 80, 100, 150 , 200 & 250 mm (2", 2.5", 3", 4", 6", 8", & 10")
- Maximum service pressure 17.5 bar (250 PSI)
- Horizontal or Vertical installation TRIMS :- WET TRIM, DRY TRIM, ELECTRIC TRIM AVAILABLE
- SS 304 , SS 316, Bronze Seat
- Flanged connection dimensions to ANSI B 16.5
- No latch, no piston, no hinges





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- Simple yet rugged
- Diaphragm operated with rubber to metal drip-tight positive sealing
- Service without removal from line
- Easily trimmed for actuation by manual, remote solenoid valve & with wet or dry pilot
- Internal and external surfaces epoxy coated for extra protection

operating system

Hydraulic Actuation (WET PILOT TRIM)

Pneumatic Actuation (DRY PILOT TRIM)

Electric Actuation

-Hydraulic Actuation (WET PILOT TRIM)

Wet pipe systems are the most common fire sprinkler system. A wet pipe system is one in which water is constantly maintained within the sprinkler.

When a sprinkler activates this water is immediately discharged onto the fire

Advantages to using a wet pipe fire sprinkler system include:

- System simplicity and reliability - Wet pipe sprinkler systems have the least number of components and therefore, the lowest number of items to malfunction. This produces unexcelled reliability which is important since sprinklers may be asked to sit in waiting for many years before they are needed. This simplicity aspect also becomes important in facilities where system maintenance may not be performed with the desired frequency.
- Relative low installation and maintenance expense - Due to their overall simplicity, wet pipe sprinklers require the least amount of installation time and capital. Maintenance cost savings are also realized since less service time is generally required compared to other system types. These savings become important when maintenance budgets are shrinking.
- Ease of modification - Wet pipe fire sprinkler systems are advantageous since modifications involve shutting down the water supply, draining pipes and making alterations. Following the work, the system is pressure tested and restored. Additional work for detection and special control equipment is avoided which again saves time and expense.
- Short term down time following a fire - Wet pipe sprinkler systems require the least amount of effort to restore. In most instances, sprinkler protection is reinstated by replacing the fused sprinklers and turning the water supply back on. Pre-action and dry-pipe systems may require additional effort to reset control equipment

Disadvantages to using a wet pipe fire sprinkler system include:

-Wet pipe systems are not suited for sub-freezing environments.

-There may also be a concern where piping is subject to severe impact damage and could consequently leak.

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Pneumatic Actuation (DRY PILOT TRIM)

A dry pipe sprinkler system is one in which pipes are filled with pressurized air or nitrogen, rather than water. This air holds a remote valve, known as a dry pipe valve, in a closed position. Located in a heated space, the dry-pipe valve prevents water from entering the pipe until a fire causes one or more sprinklers to operate. Once this happens, the air escapes and the dry pipe valve releases. Water then enters the

pipe, flowing through open sprinklers onto the fire.

Advantages of using dry pipe fire sprinkler systems include:

- Dry pipe sprinkler systems provide automatic protection in spaces where freezing is possible. Typical dry pipe installations include unheated warehouses and attics, outside exposed loading docks and within commercial freezers. Many people view dry pipe sprinklers as advantageous for protection of collections and other water sensitive areas. This perceived benefit is due to a fear that a physically damaged wet pipe system will leak while dry pipe systems will not. In these situations, however, dry pipe systems will generally not offer any advantage over wet pipe systems. Should impact damage happen, there will only be a mild discharge delay, i.e. 1 minute, while air in the piping is released before water flow.

Disadvantages of using dry pipe fire sprinkler systems include:

Increased complexity - Dry pipe systems require additional control equipment and air pressure supply components which increases system complexity. Without proper maintenance this equipment may be less reliable than a comparable wet pipe system.

- Higher installation and maintenance costs - The added complexity impacts the overall dry-pipe installation cost. This complexity also increases maintenance expenditure, primarily due to added service labor costs
- Lower design flexibility - There are strict requirements regarding the maximum permitted size (typically 750 gallons) of individual dry-pipe systems. These limitations may impact the ability of an owner to make system additions.
- Increased fire response time - Up to 60 seconds may pass from the time a sprinkler opens until water is discharged onto the fire. This will delay fire extinguishing actions, which may produce increased content damage.
- Increased corrosion potential - Following operation, dry-pipe sprinkler systems must be completely drained and dried. Otherwise remaining water may cause pipe corrosion and premature failure. This is not a problem with wet pipe systems where water is constantly maintained in piping.
- With the exception of unheated building spaces and freezer rooms, dry pipe systems do not offer any significant advantages over wet pipe systems

Electric Actuation

VALVE WILL BE OPERATED BY SOLENOID VALVE, WHICH WILL BE OPERATED BY ANY POWER SUPPLY 220 V , 230 V , 24 V DC, ETC..

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Angle Type Deluge Valve (90 Degree Pattern)

deluge Systems are intended to deliver large quantities of water over a large area in a relatively short period of time. The FLUID Deluge Valve to 175 psi (12 bar) in sizes 3", 4", 6", (80, 100, 150,MM). The FLUID deluge Valve is compact, lightweight, and is provided with a preassembled trim - all of which minimize the installation time and make it simple and easy. The FLUID Valve opens fast, yet smoothly, preventing water hammer. The FLUID Valve design prevents false tripping and it can be reset by a thumb- activated kno

Application

. Deluge Valve Model FTV-ACV-200 (ANGLE TYPE) 90 Degree

- o Fast application of water in spray, pre-action and foam system
- o Size: 50, 80, 100, 150 & 200 mm (2", 3", 4", 6" & 8")
- o Cast Iron , CAST STEEL ,and Alloy Steel construction
- o Maximum service pressure 12 bar (175 psi)
- o Vertical inlet and Horizontal outlet
- o SS 304 , SS 316, Bronze Seat
- o Flanged connection dimensions to ANSI B 16.5
- o No latch, no piston, no hinges
- o Simple yet rugged
- o Diaphragm operated with rubber to metal drip-tight positive sealing
- o Reset without any tools
- o Easily trimmed for actuation by manual, remote solenoid valve & with wet or dry pilot
- o Internal and external surfaces epoxy coated for extra protection
- o The Deluge Valves are also available as pre-assembled cabinet/skid mounted, upon request
- o Pressure Reducing Pilot trim suitable for all Deluge Valve models
- o The pressure reducing function maintains pre-set outlet pressure in Deluge Valve
- o It automatically reduces a higher inlet pressure to a steady lower outlet pressure, regardless of varying inlet pressure and / or changing flow rate demand

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operating system

Hydraulic Actuation (WET PILOT TRIM)

Pneumatic Actuation (DRY PILOT TRIM)

Electric Actuation

Pneu-Electric Actuation

ALSO SOLENOID VALVE WILL BE CONNECTED IN PNEUMATIC CONNECTION
Deluge Valve (ANGLE TYPE) 90 Degree

- Fast application of water in spray, pre-action and foam system
- Size: 50, 80, 100, 150 & 200 mm (2", 3", 4", 6" & 8")
- Cast Iron , CAST STEEL ,and Alloy Steel construction
- Maximum service pressure 12 bar (175 psi)
- Vertical inlet and Horizontal outlet
- SS 304 , SS 316, Bronze Seat
- Flanged connection dimensions to ANSI B 16.5
- No latch, no piston, no hinges
- Simple yet rugged
- Diaphragm operated with rubber to metal drip-tight positive sealing
- Reset without any tools
- Easily trimmed for actuation by manual, remote solenoid valve & with wet or dry pilot
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- The Deluge Valves are also available as pre-assembled cabinet/skid mounted, upon request





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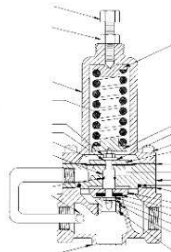


fire sprinkler



SPRINKLER COLOURCODES		
Glass Bulb	Opening temperature in °C	Temperature rating °C
Orange	57	57 - 77
Red	68	80 - 107
Yellow	79	121 - 149
Green	93 - 100	163 - 191
Blue	121 - 141	204 - 246
Mauve/ Purple	163 - 182	260 - 302
Black	204 - 260	320 - 343

Pressure Reducing Pilot Valve us for deluge valve



solenoid valve



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GST NO : 24ERYPP8468LIZG

All required materials

Any required in solution for Industrial valve



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