

Category 6

Automatic Fire Suppression Systems



STANDART RESPONSE SPRINKLERS

MODEL	K-FACTOR		TEMPERATURE	CONNECTION DIAMETER	SPRINKLER TEMPERATURE	COLOUR	PRESSURE
	U.S.	METRIC					
UPRIGHT	40.3	2.8	5mm Glass Bulb	½"NPT ¾"NPT	57 °C	Brass Chrome White Black	175psi-250psi
	57	4.2			68 °C		
	80	5.6			79 °C		
	115	8.0			93 °C 141 °C 182 °C		
PENDENT	40.3	2.8	5mm Glass Bulb	½"NPT ¾"NPT	57 °C	Brass Chrome White Black	175psi-250psi
	57	4.2			68 °C		
	80	5.6			79 °C		
	115	8.0			93 °C 141 °C 182 °C		
CONCEALED PENDENT	40.3	2.8	5mm Glass Bulb	½"NPT ¾"NPT	57 °C	Brass	175psi-250psi
	57	4.2			68 °C		
	80	5.6			79 °C		
	115	8.0			93 °C		
CONCEALED PENDENT COVER	-	-	-	½"NPT ¾"NPT	57 °C 74 °C	Chrome White	-
SIDE WALL	40.3	2.8	5mm Glass Bulb	½"NPT	57 °C	Brass Chrome White Black	175psi-250psi
	57	4.2			68 °C		
	80	5.6			79 °C		
					93 °C 141 °C		

QUICK RESPONSE SPRINKLERS

MODEL	K-FACTOR		TEMPERATURE	CONNECTION DIAMETER	SPRINKLER TEMPERATURE	RENK	BASINÇ SINIFI
	U.S.	METRIC					
UPRIGHT	40.3	2.8	3mm Cam Bulb	½"NPT ¾"NPT	57 °C	Brass Chrome White Black	175psi-250psi
	57	4.2			68 °C		
	80	5.6			79 °C		
	111	7.8			93 °C		
	115	8.0			141 °C		
PENDENT	40.3	2.8	3mm Cam Bulb Ergir Lehim	½"NPT ¾"NPT	57 °C	Brass Chrome White Black	175psi-250psi
	57	4.2			68 °C		
	80	5.6			79 °C		
	115	8.0			93 °C		
					141 °C 182 °C		
GİZLİ TİP PENDENT	40.3	2.8	3mm Cam Bulb Ergir Lehim	½"NPT ¾"NPT	68 °C	Brass	175psi-250psi
	57	4.2			74 °C		
	80	5.6			93 °C		
	115	8.0			96 °C		
	160	11.2					
GİZLİ TİP PENDENT KAPAK	-	-	-	½"NPT ¾"NPT	57 °C 74 °C	Chrome White	-
SIDE WALL	40.3	2.8	3mm Cam Bulb Ergir Lehim	½"NPT	57 °C	Brass Chrome White Black	175psi-250psi
	57	4.2			68 °C		
	80	5.6			79 °C		
					93 °C 141 °C		

- Standard Response Sprinkler is UL List -FM Certified, designed to be used in accordance with regulations. It has a wide range of products and temperature sensitivity is provided by 5mm glass bulb or melting solder.

BUTTERFLY VALVE WITH MONITORING KEY



MODEL	CONNECTION TYPE	OPERATING PRESSURE	OPERATING TEMPERATURE	DIMENSIONS	APPLICATION AREA
BUTTERFLY VALVE WITH MONITORING KEY	Threaded Wafer Grooved	175psi-300psi	120°C	1" – 12"	Wide application area, All fire fighting systems, except powder and gas extinguishing systems

- Butterfly valve isolates one part of the pipe from the other one and functions through the rotation of an internal disc.
- Since the position of the valve must be visible and traceable, an external indicator turns in sync with the disc and serves to confirm its position – open or closed.
- Ideal for indoor and outdoor use. ULLIST-FM certified.

WET ALARM VALVE ASSEMBLY



MODEL	CONNECTION TYPE	OPERATING PRESSURE	OPERATING TEMPERATURE	DIMENSIONS	APPLICATION AREA
WET ALARM VALVE BODY	Grooved x Grooved Grooved x Flanged Flanged x Flanged	200psi-300psi	-	3"-8"	Mechanical and electronic alarm for use with check valves or water flow detectors.
RETARD CHAMBER	-	200psi-300psi	-	¾" Bsp	It is used in conjunction with wet pipe sprinkler systems. It serves primarily as a hydraulic time delay to prevent most false alarms associated with fluctuating water supply pressures.
WATER MOTOR GONG	-	200psi-300psi	-	¾" Bsp	Hydraulically operated indoor/outdoor alarm for use with fire protection systems. Can be used in conjunction with alarm check, dry pipe, deluge, and preaction valves to sound a local high decibel alarm.
PRESSURE SWITCH	-	200psi-300psi	-40 °C ~ +71°C	½" Npt	It can be used in conjunction with alarm check, dry pipe, deluge, and preaction valves to detect pressure shift and sounds an alarm.

- Wet Pipe Sprinkler Systems are designed for heated buildings and areas susceptible to freezing(i.e. temperatures are about +4°C).
- If the sprinkler opens, the water flow opens the alarm valve disc and reaches the retard chamber via alarm valve body. The retard chamber fills in seconds, first the pressure switch sounds the electrical alarm, after the water in the water motor gong sounds the mechanic alarm. UL LIST-FM certified.

DRY ALARM ASSEMBLY



MODEL	CONNECTION TYPE	OPERATING PRESSURE	OPERATING TEMPERATURE	DIMENSIONS	APPLICATION AREA
DRY ALARM VALVE BODY	Grooved x Grooved Grooved x Flanged Flanged x Flanged	175-250psi	-	2"-6"	-
RETARD CHAMBER	-	200psi-300psi	0	¾"Bsp	Minimizes false alarms caused by surges or fluctuations in wet pipe sprinkler systems
WATER MOTOR GONG	-	200psi-300psi	-	¾"Bsp	Hydraulically operated indoor/outdoor alarm for use with fire protection systems. It can be used in conjunction with alarm check, dry pipe, deluge, and preaction valves to sound a local high decibel alarm.
PRESSURE SWITCH	-	200psi-300psi	-40 °C ~ +71°C	½" Npt	It can be used in conjunction with alarm check, dry pipe, deluge, and pre action valves to detect pressure shift and sounds an alarm.
ACCELERATOR	Threaded x Threaded	250psi	-	½" Npt	Dry alarm valve depressurizes accelerating equipment.
AIR PRESSURE MAINTENANCE DEVICE	Threaded x Threaded	27-58psi	-	½" Npt	Adjusts the pressure of the air coming from compressor or ventilation installation and the nitrogen.

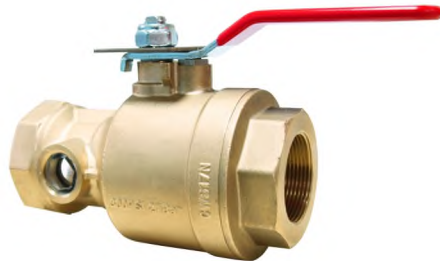
- The Dry Pipe Sprinkler System is a fire-protection system that utilizes water as an extinguishing agent, while the system piping from the Dry Pipe Valve to the automatic fusible sprinklers is filled with pressurized air or nitrogen. Dry pipe systems should be installed only where heat is not adequate to prevent freezing of water in all parts of, or in sections of, the system (ambient temperature below +4°C). Air pressure must be lost from the system to trip the valve. Then water must travel through the piping network to the sprinklers. In the same time the pressure switch detects the falling air pressure and send the electrical alarm. ULLIST-FM certified.

FLOW SWITCH



MODEL	CONNECTION TYPE	OPERATING PRESSURE	OPERATING TEMPERATURE	DIMENSIONS	APPLICATION AREA
FLOW SWITCH	Threaded U Bolt	400psi 450psi	between 0°C – 49°C with water	1" – 2" Threaded 2" – 8" U Bolt	Suitable for all liquid carrying wet pipe systems.

TEST AND DRAIN VALVE



MODEL	CONNECTION TYPE	OPERATING PRESSURE	OPERATING TEMPERATURE	DIMENSIONS	APPLICATION AREA
TEST AND DRAIN VALVE	Threaded Grooved	300psi	-	1" - 2"	Fire sprinkler systems.

- It is used to conduct testing and maintenance on sprinkler systems. With the orifice in different sizes inside, it creates a flow equivalent to the flow passing along one sprinkler only and enables tests of alarm devices on the lines for checking purposes in the case of sprinkler water flow.
- ULLIST-FM certified.

LANDING VALVE



MODEL	CONNECTION TYPE	OPERATING PRESSURE	OPERATING TEMPERATURE	DIMENSIONS	APPLICATION AREA
LANDING VALVE	Threaded (F x F)	300psi	-	2 ½" – 1 ½" NPT	Fire Cabinet, all types of fire sprinkler systems

- Landing valves are suitable for installation on wet risers in buildings for fire fighting purposes near fire cabinets or in fire escape aisles., permanent charged with water from a pressurized supply. UL LIST-FM certified.

FIRE DEPARTMENT CONNECTION



MODEL	CONNECTION TYPE	OPERATING PRESSURE	OPERATING TEMPERATURE	DIMENSIONS	APPLICATION AREA
FIRE DEPARTMENT CONNECTION	Threaded (F x F)	300psi	-	4" x 2 ½" x 2 ½" NPT	Fire Cabinet, all types of fire sprinkler systems

- A connection through which the fire department can pump the secondary water supply to a sprinkler system or fire hose cabinet.
- ULLIST-FM certified.

OS&Y RISING STEM VALVE



MODEL	CONNECTION TYPE	OPERATING PRESSURE	OPERATING TEMPERATURE	DIMENSIONS	APPLICATION AREA
OS&Y RISING STEM VALVE	Threaded Wafer Grooved	175psi-300psi	0.6°C - 52°C	1" – 16"	The OS&Y (Outside Screw and Yoke) gate valve is mainly used in fire protection sprinkler systems, especially on the suction pipe to the pump.

- The OS&Y (Outside Screw and Yoke) gate valve is mainly used in fire protection sprinkler systems. The main difference from a standard NRS (Non Rising Stem) gate valve is that the stem and stem nut are placed outside the valve body. This makes it easy to see if the valve is open or closed, as almost the entire length of the stem is visible when the valve is open, while the stem is no longer visible when the valve is closed. In general this is a requirement in these kinds of systems to ensure a fast visual control of the system status.
- ULLIST-FM certified.

OS&Y RISING STEM VALVE MONITORING KEY



MODEL	CONNECTION TYPE	OPERATING PRESSURE	OPERATING TEMPERATURE	DIMENSIONS	APPLICATION AREA
MONITORING KEY	Horizontal Vertical Type	-	0°C - 49°C range form	1" – 12"	Must be used in conjunction with OS&Y valve. (Water pumping and suction lines, under wet alarm valves building entries etc.)

- OS&Y rising stem valve monitoring key is a weather proof and tamper resistant switch for monitoring the position of the OS & Y valve .It is provided with dry contacts which will operate when the valve position is altered and activate the alarm unit. Ideal for indoor and outdoor use. ULLIST-FM certified

NRS (NON RISING STEM) VALVE



MODEL	CONNECTION TYPE	OPERATING PRESSURE	OPERATING TEMPERATURE	DIMENSIONS	APPLICATION AREA
NRS (NON RISING STEM) VALVE	Flanged	200psi-300psi	0.6°C - 52°C	2 ½" – 16"	It is used in areas with freezing risk, like submerged fire protection lines.

- Developed to be used as check and cut-off valve, is the equivalent of butterfly valve with a monitoring switch and OS & Y valve that is used to stop the liquid flow in pipings (i.e exterior underground pipings, interior pipings). Since the position of the valves must be visible and traceable, it must be used in conjunction with post indicators. Ideal for indoor and outdoor use. UL LIST-FM certified

POST INDICATOR



MODEL	CONNECTION TYPE	OPERATING PRESSURE	OPERATING TEMPERATURE	DIMENSIONS	APPLICATION AREA
POST INDICATOR	Horizontal and vertical type	-	-	4" – 24"	For controlling outdoor fire systems. Especially for controlling underground piping.

- Post Indicators are used with NRS valves to ensure the visibility of valve position.
- For tracing and protecting underground piping against freezing
- Post Indicators are installed on NRS valves .
- Ideal for indoor and outdoor use. ULLIST-FM certified

PRESSURE REDUCING VALVE



MODEL	CONNECTION TYPE	OPERATING PRESSURE	OPERATING TEMPERATURE	DIMENSIONS	APPLICATION AREA
PRESSURE REDUCING VALVE	Threaded Flanged Grooved	Inlet Pressure: 175psi – Outlet Adjustment Pressure: 30-165psi Inlet Pressure: 300psi – Outlet Adjustment Pressure: 30-165psi	82°C	1 1/2" – 3" Threaded 1 1/2" – 10" Flanged 1 1/2" – 8" Grooved	For all fire fighting systems which require pressure pressure adjustment.

- Pressure Reducing Valve is used to reduce the pressure in the system to the necessary pressure value
- ULLIST-FM certified

CHECK VALVE



MODEL	CONNECTION TYPE	OPERATING PRESSURE	OPERATING TEMPERATURE	DIMENSIONS	APPLICATION AREA
ÇEK VALF	Threaded Wafer Flanged Grooved	175psi-300psi	120°C	1" – 2" Threaded Connection Swing Type Check Valve 2"-12" Flanged Connection Swing Type Check Valve 2 ½" – 12" Wafer Double Clap Check Valve 2 ½" – 12" Grooved Connection Check Valve with Double Clap	Fire Pump Line – Fire Hydrant – Vertica Fire Pump Systems (Alarm valve) – Building Entries High- rise buildings

- Check valves are designed to pass flow in one direction with minimum resistance and to prevent damage of the equipments caused by reverse or back flow .Its a must for fire pump lines. Ideal for indoor and outdoor use.

FLOW METER



MODEL	CONNECTION TYPE	OPERATING PRESSURE	OPERATING TEMPERATURE	DIMENSIONS	APPLICATION AREA
FLOW METER	Kaynak Boyunlu Grooved	500psi	between 0°C – 49°C with water	2 ½" – 12"	All fire fight systems where fire pump is used

- Flow meter is used to ensure that the fire pump pressure is equal to the tag value.
- ULLIST-FM certified.