



Features

- To protect the supply water frozen in the winter season
- VITON Rubber to clapper and water seats .
- No false due to air supply by compressor automatically if the small leak is detected in the dry pipe.
- It is designed to fit into tiny space for installation.

Description

The LIFECO Dry Pipe Valve shall be a low-pressure dry pipe system capable of providing a water-to-air force differential. The dry pipe valve system shall be consist of a light weight, gray-casting iron construction with “drop-in” bronze seat, and clapper assembly utilizing priming chamber design. Clapper facing shall be pressure actuated, providing a limited compression seat for sealing between the clapper rubber facing and valve seat. When the air pressure is lowered sufficiently to destroy the pressure differential, the valve opens allowing the water enter the dry pipe system.

The Model PLDPV dry pipe valve which should be installed vertically on dry-pipe sprinkler systems is a differential latch type valve which depends upon air pressure in priming chamber to hold the clapper closed against the water supply pressure. The nominal trip ratio is below, the PLDPV valve operates (opens) when the pressure in the air line is dropped to less than Min. air pressure (refer to Table 2).

When a sprinkler operates, the system air pressure is reduced as well as the priming chamber air pressure is reduced through the air supply connection until it reaches the differential tripping point of valve. The e force differential between air pressure and water pressure in the priming chamber applied through the clapper latch to hold the clapper down in the set point is reduced to below the valve trip point. The water supply pressure then force the clapper assembly open permitting water flow into the sprinkler pipe.

When the system main control valve is closed to stop water flow into the system, the clapper will be prevented from resetting by the clapper latch until the Reset Knob is pushed inward. Pushing the reset Knob inward will temporarily reposition the Clapper Latch away from the waterway and allows the Clapper to drop into the seated position

Technical & Environmental Specification

Description	Vertical	
Max Working Pressure	12.3Kgf/cm ²	
Test pressure	21Kgf/cm ²	
Flange size	KS B1513 10K FF Flange (or ANSI 150lb)	
Colour	Red	
Model no.	LF-DAV100A	LF-DAV150A
Size	100A	150A
Max flowrate (4.5m/sec)	2100 LPM	4800 LPM
Weight	61Kg	81Kg
Packing	1EA	

Material

No.	Component	Material
1	Body	Cast Iron (GC200)
2	Cover	Cast Iron (GC200)
3	Seat Ring	Bronze (BC6)
4	Clapper	Cast Iron (GC200)
5	Clapper Seat	Rubber Viton
6	Clapper Pin	STS 304
7	Latch	Cast Iron (GC200)
8	Latch Pin	Brass (C3604)
9	Cover Bolt	Steel
10	Setting Bolt	Steel
11	Knob Handle	Brass (C3604)
12	Chamber	Cast Iron (GC200)
13	Chamber Cover	Cast Iron (GC200)
14	Chamber Cover Bushing	Bronze (BC6)
15	Chamber Cover Piston	Brass (C3604)
16	Chamber Cover 1	Cast Iron (GC200)
17	Push Rod	Brass (C3604)
18	Push Rod Guide	Bronze (BC6)
19	Push Rod Disc	Brass (C3604)
20	Diaphragm	Rubber (EPDM)

Setting Pressure Table

Unit: kgf /cm²

Water supply pressure	Min Air pressure	Max Air pressure
1.5	1.5	2.0
3	1.5	2.0
5	1.5	2.0
7	1.5	2.0
8.5	1.5	2.0
10	1.7	2.2
10 Over	2.2	2.7

