



Technical & Environmental Specification

Maximum Working Pressure

4", 6" (100,150)-175 psi (12 bar), 300psi(20 bar)
8" (200)-250 psi (17.2 bar)

Connection

Flange-ANSI B16.1 FF Class 150
Groove-ANSI/AWWA C606
Factory Hydrostatic Test Pressure :
25 bar (350 psi) – 4", 6"
35 bar (500 psi) – 8" Flange & Groove
42 bar (600 psi) – 4"H, 6"H

Approximate Net Weight :

4" (100) – 38.6 kg (Included trim)
4"H (100A) – 46.4 kg (Included trim)
6" (150A) – 56.2 kg (Included trim)
6"H (150A) – 70.6 kg (Included trim)
8" (200A) Flange – 76.5 kg (Included trim)
8" (200A) Groove – 57.6 kg (Included trim)

Material

Body/Cover. . Gray Cast Iron (4",6")
Ductile Iron (4", 4"H, 6", 6"H, 8")
Drain. Gray Cast Iron
Seat ring Bronze
Clapper STS304
Clapper seat VITON (4",6")
EPDM (4"H, 6"H, 8")

** Grooved type available as per request.

Features

- No False Alarm
- Outstanding Durability
- Anti-corrosive Trim
- Reliable Operation
- Cast iron body for extra hydrostatic strength
- Quick removal and easy service for rubber-faced clapper

Notes:

Design and material are subject to change without notice.

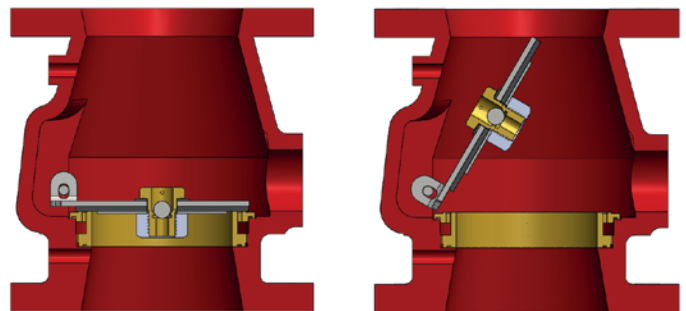
Description

As an essential part of a wet sprinkler system, LIFECO Wet Alarm Valve is used as a device that detects water flow in the fire equipment installed in residential area, manufacturing area, and so on.

The valve is designed to initiate an alarm during a sustained flow of water (such as the flow required by an open sprinkler) by operating an optional water motor alarm and/or a pressure switch.

When a sustained flow of water occurs, such as an activated sprinkler, open sprinkler or an open authorized person's test connection, the clapper lifts from its closed position, this allows water flow into the intermediate chamber through the holes in the seat ring and it will fill the retarding chamber completely. The water flows from intermediate chamber to the alarm line and activates the water motor alarm and/or the pressure switch for the electric alarm. These alarm continue to sound until the flow of water stops.

Operational Mechanism of Alarm Valve



In service

In activate

Variable Pressure Trim

Retard is required. This trim set is used where water supply pressure vary. The retard chamber and mechanical sprinkler alarm line are drained through a opened test valve line.

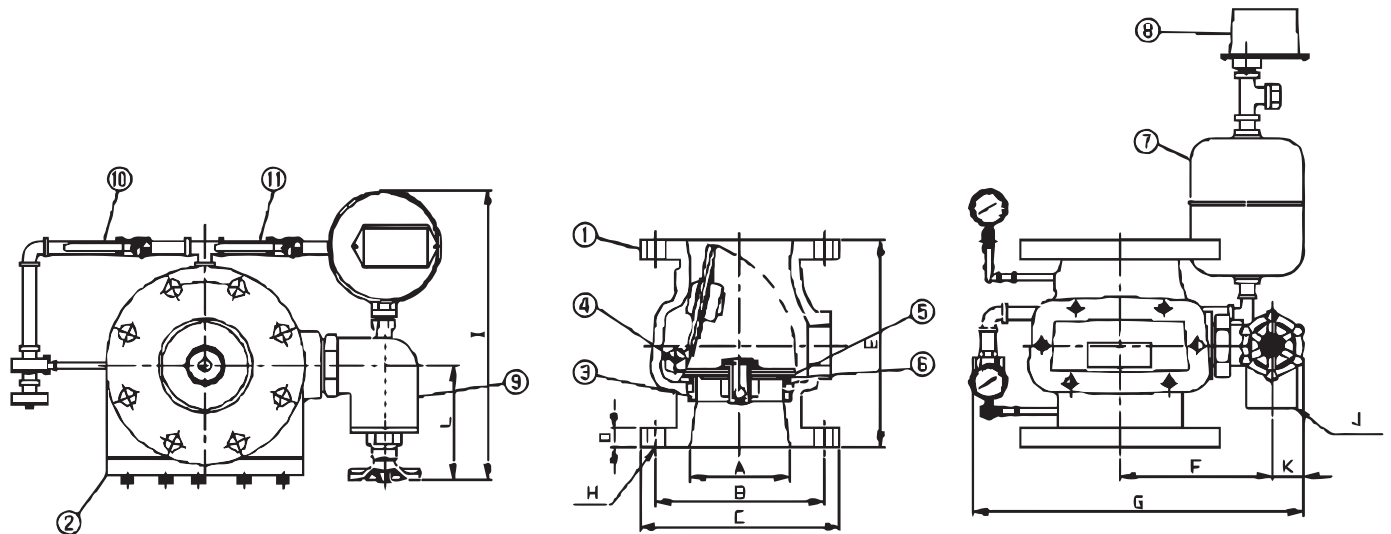


Figure 1. Basic Dimensions

	A	B	C	D	E	F	G	H	I	J	K	L
LF-WAV100BF	100	175	210	24	250	169	415	8-19D	376	50A	50	153
LF-WAV100PF	100	200	254	32	266	169	415	8-22D	376	50A	50	153
LF-WAV150BF	150	240	280	26	280	199	480	8-23D	391	50A	50	153
LF-WAV150PF	150	270	318	37	301	199	480	12-22D	391	50A	50	153
LF-WAV200A	200	298	343	28.5	350	255	650	8-23D	500	50A	75	320

Part List

No.	Item	Material	No.	Item	Material
1	Body	Cast Iron (4",6") Ductile Iron (4", 4"H, 6", 6"H, 8")	7	Retarding Chamber	SPCC/SPPS
2	Cover	Cast Iron (4",6") Ductile Iron (4", 4"H, 6", 6"H, 8")	8	Pressure Switch	-
3	Seat Ring	Bronze	9	Drain Valve	Cast Iron/Brass Ductile Iron/Brass
4	Disc & Arm	STS 304	10	Alarm Test Valve	Brass
5	Disc Seat	Viton (4", 6") EPDM (4"H, 6"H, 8")	11	Alarm Shut-off Valve	Brass
6	Seat Cover	STS 304			

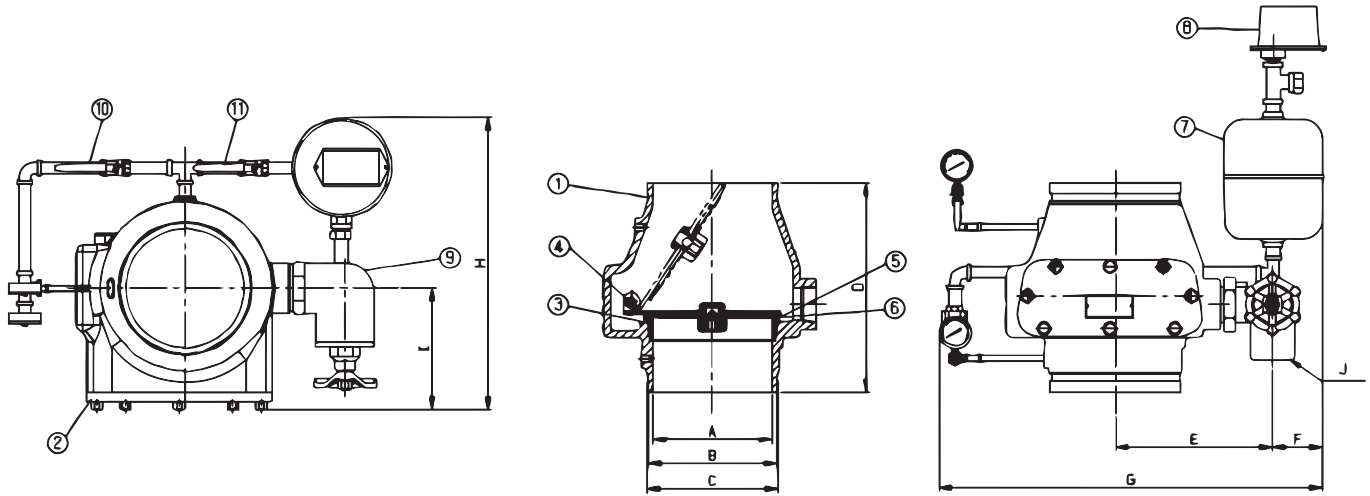


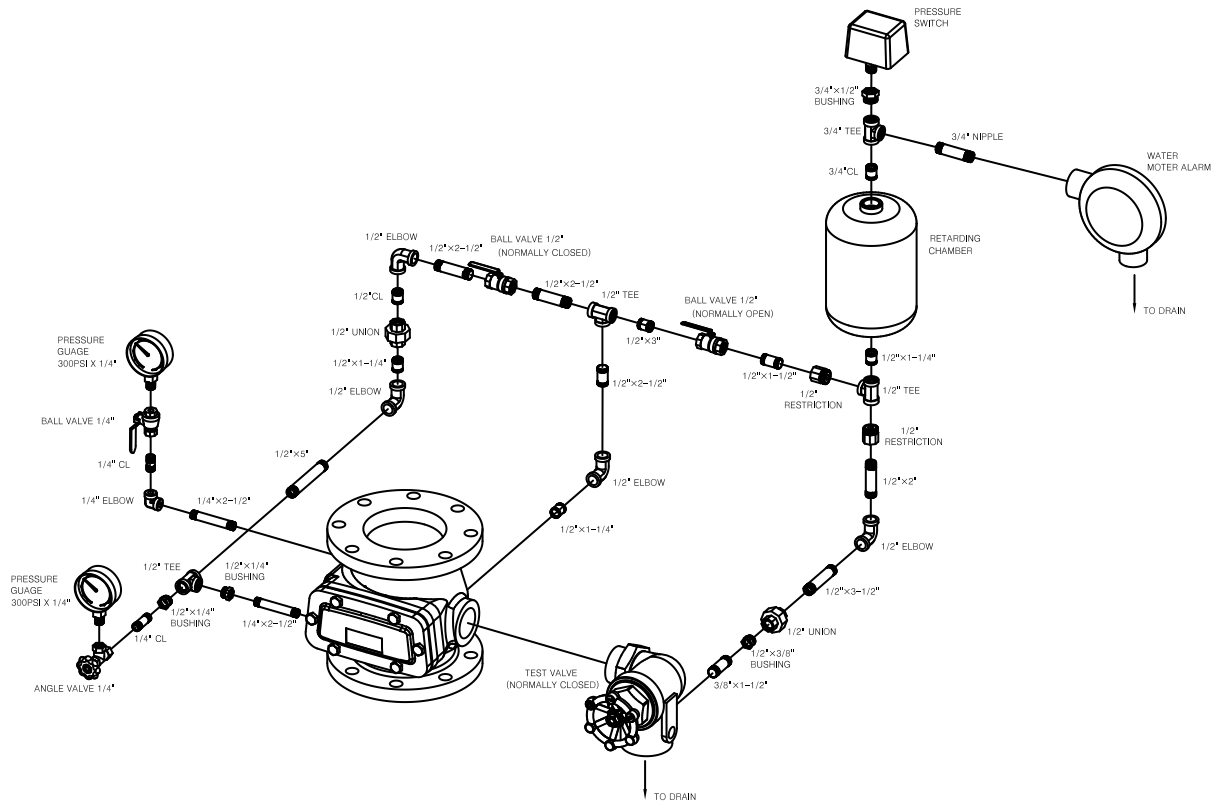
Figure 1. Basic Dimensions

	A	B	C	D	E	F	G	H	I	J
LF-WAV200A	200	214	219	350	255	75	650	500	320	50A

Part List

No.	Item	Material	No.	Item	Material
1	Body	Ductile Iron (8")	7	Retarding Chamber	SPCC/SPPS
2	Cover	Ductile Iron (8")	8	Pressure Switch	-
3	Seat Ring	Bronze	9	Drain Valve	Cast Iron/Brass
4	Disc & Arm	STS 304	10	Alarm Test Valve	Brass
5	Disc Seat	Viton	11	Alarm Shut-off Valve	Brass
6	Seat Cover	STS 304			

Variable Pressure Trim LF-WAV100BF, LF-WAV150BF, LF-WAV100PF, LF-WAV150PF



Variable Pressure Trim LF-WAV200A

