

## Wet Alarm Check Valve Flowage India

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### 1. Performance and Function

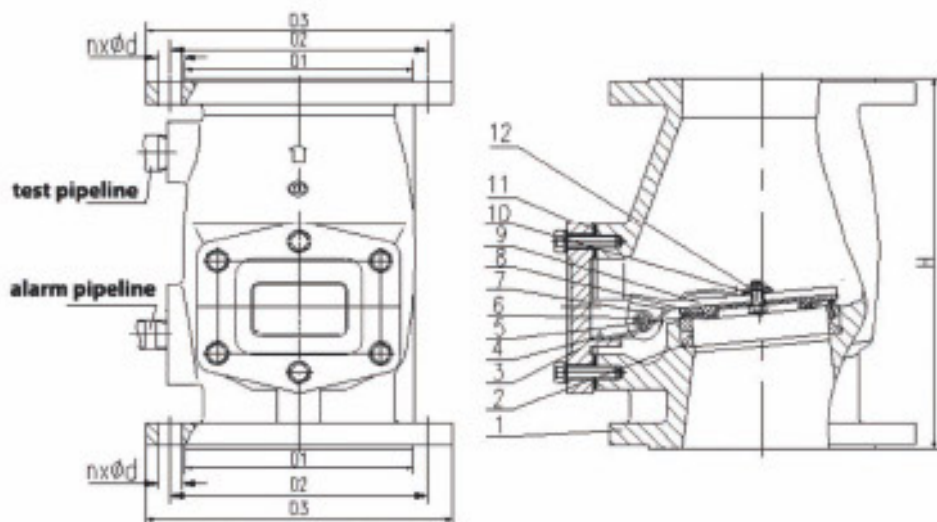
Alarm check valve must be install vertically in wet pipe fire sprinkler system. They are designed to automatically electric and/or hydraulic alarms when there is a steady flow of water into the system that is equivalent to the discharge rate of one or more sprinklers.

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### 2. Main Components Technical Parameter

#### 2.1 check Valve

##### 2.1.1 Main Valve Structure and External Dimension



1	Valve body	2	Valve seat
3	Valve cover	4	Torision spring
5	ring	6	Rotating shaft
7	bush	8	Sealing gasket
9	flap	10	gasket
11	Cover gasket	12	bolt

##### 2.1.2 Connection Dimension

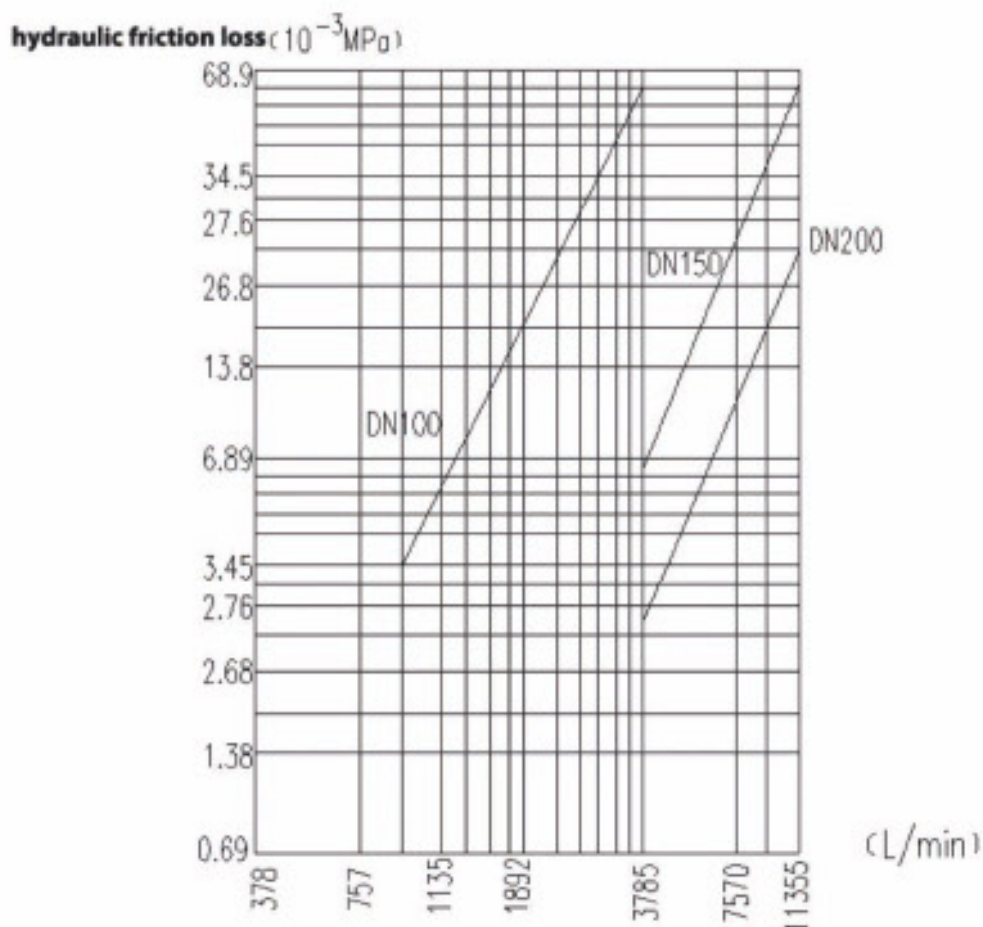
Model NO	H	D1	D2	D3	$n \times \phi d$
FAVB-100	230	$\Phi 158$	$\Phi 180$	$\Phi 215$	8×18
FAVB-150	250	$\Phi 212$	$\Phi 240$	$\Phi 280$	8×22
FAVB-200	270	$\Phi 260$	$\Phi 295$	$\Phi 340$	12×22

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### 2.1.3 Main Technical Parameter

Model NO	Nominal diameter	Working Pressure(Mpa)	Alarm pipeline	Test pipeline
FAVB-100	100	1.6	R3/4	R1
FAVB-150	150	1.6	R3/4	R1
FAVB-200	200	1.6	R3/4	R1

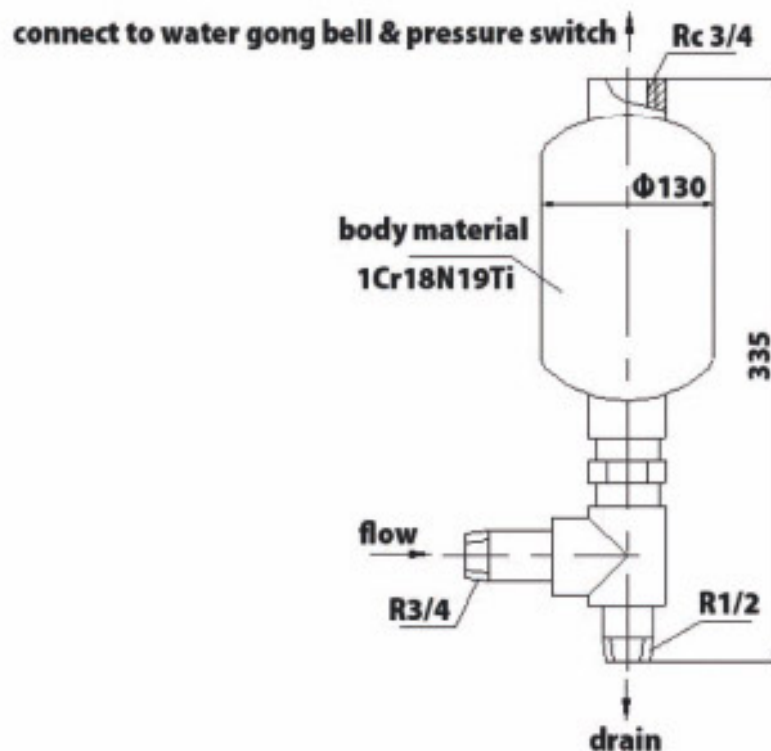
### 2.1.4 Hydraulic Friction Loss



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Model NO	equivalent length
FAVB-100	8.5m
FAVB-150	9.1m
FAVB-200	12.5m

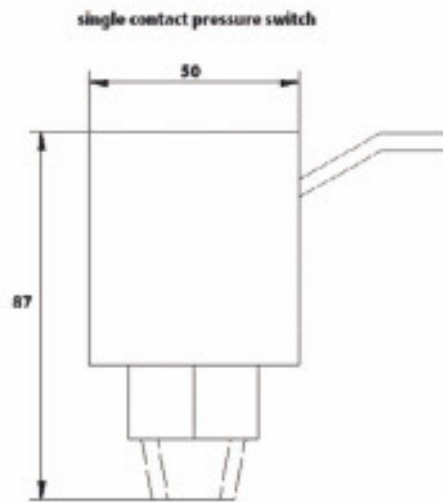
### 2.2. ZSPY retard chamber



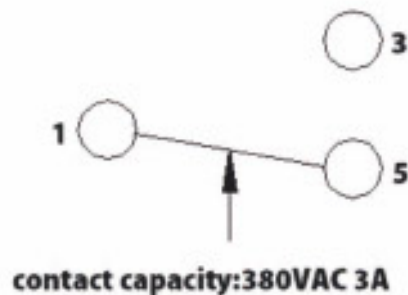
Max Working pressure	1.6Mpa
Draining time	≤5min
Delay time	5-90s

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### 2.3. Pressure switch



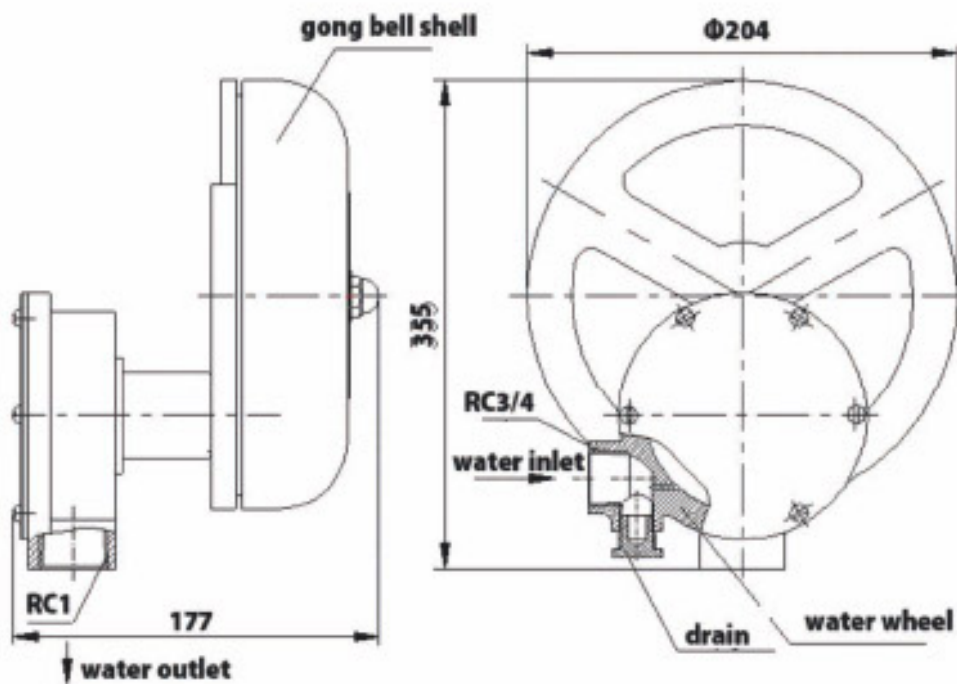
#### 2.3.1 Wiring diagram



Max working pressure	1.6Mpa
Working pressure range	0.05-1.6Mpa
installation	vertical
Switch contact capacity	DC24V 3A

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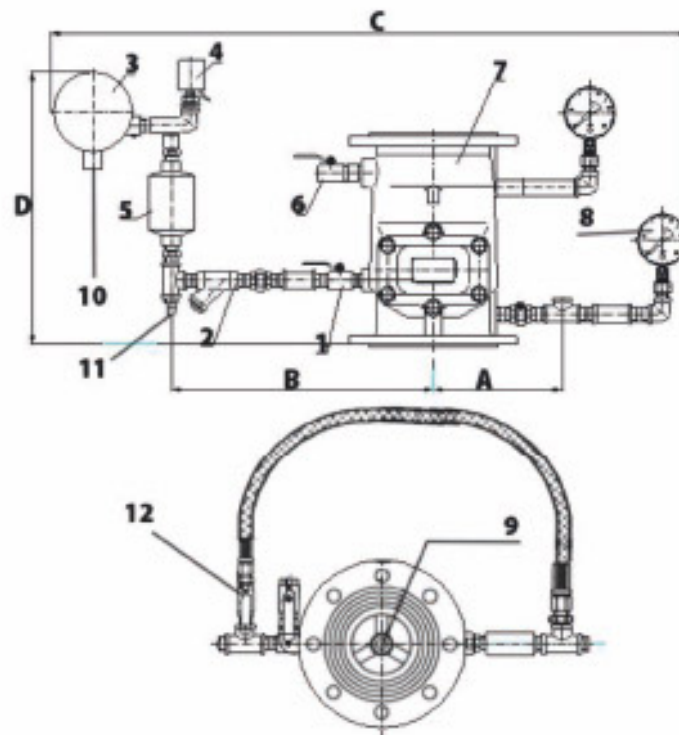
### 2.4. Water Gong Bell



Max working pressure	1.6Mpa
Actuating pressure	≥0.05Mpa
Sound level	≥70dB(A) when water inlet pressure are 0.05Mpa
3m away sound level	≥85dB(A) when water inlet pressure are 0.2Mpa

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### 3. Installation



NO.	Name	FAVB-100	FAVB-150	FAVB-200
1	Gong Bell Control Ball valve	DN20	DN20	DN20
2	Strainer	DN20	DN20	DN20
3	Gong bell	Ø200	Ø200	Ø200
4	Pressure Switch	ZSJY16	ZSJY16	ZSJY16
5	Retard Chamber	Ø127	Ø127	Ø127
6	Drain Ball Valve	DN25	DN25	DN25
7	Main Check Valve	DN100	DN150	DN200
8	Pressure gauge	Y100	Y100	Y100
9	Compensator	DN20	DN20	DN20
10	Drain of gong bell	RC1"	RC1"	RC1"
11	restriction choke	RC1/2"	RC1/2"	RC1/2"
12	Gong Bell & pressure gauge Control Ball valve	DN20	DN20	DN20

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Model No.	FAVB-100	FAVB-150	FAVB-200
A	350	380	400
B	570	650	700
C	1030	1130	1200
D	620	670	690

- 3.1.** Leakage test before installation, test pressure should be twice as much as the rated working pressure, lasting for 5 minutes.
- 3.2.** Alarm wet check valve should be installed vertically and convenient for operating, ground clearance 1.2m, sidewall clearance should be  $>0.5m$ , facade wall clearance should be  $> 1.2m$ , the arrow mark should be in line with the direction of flow.
- 3.3.** Clean out the pipeline.
- 3.4.** Each drain of valve should be connected with drainage separately, (drain 6,10,11), keep free from obstruction.
- 3.5.** Pressure switch installation should be convenient for viewing.
- 3.6.** After installed the full water slowly to system pipeline, lifting the pressure slowly to rated working pressure.