



Purpose

Alarm Check Valve is core element in wet pipe fire sprinkler systems. It serves a dual purpose which prevents a reverse flow of water (non-return), also provides for the use of the water motor gong. Meanwhile, in the event of variable pressure condition, false alarm is prevented with provision of retard chamber at the external bypass.

Performance Parameters

Standard: ANSI/BS/GB

Connection: Flanged as ANSI B16.1/EN 1092-2

Installation: Vertical

Test: Factory hydro test 350 psi (2.4MPa)

Temperature: 4°C to 70°C

W. pressure: 175/300 psi (1.21/2.07MPa)

Surface: FBE coating as AWWA C550

Technical parameters

Model	ZSFZ80	ZSFZ100	ZSFZ125	ZSFZ150	ZSFZ200	ZSFZ250
Nominal diameter(mm)	80	100	125	150	200	250
Working pressure(MPa)	1.6MPa					
Sealed test(MPa)	3.2MPa					
Strength test(MPa)	6.4MPa					
Flow rate(L/min)	15<Q<60					
Retard alarm time(s)	5~90					
Friction resistance(MPa)	≤0.035					

Body	Ductile iron	Cover	Ductile iron
Disc	Ductile iron/brass+EPDM	Stem	SS304/galvanized pipe
Seat	Bronze/Cast iron	Accessories	Standard trim & accessories, Retard chamber, Alarm pressure switch, Water motor gong, etc.

Main dimensions(mm)

Model specifications	Working Pressure(MPa)	Strength test Pressure(MPa)	Strength test Pressure(MPa)	Diameter (mm)	Height (mm)	Flange diameter(mm)	Flange screw hole diameter(mm)	Screw hole specification(mm)
ZSFZ80	1.6	3.2	6.4	80	230	200	160	8*18
ZSFZ100				100	235	220	180	8*18
ZSFZ125				125	245	250	210	8*18
ZSFZ150				150	250	285	240	8*22
ZSFZ200				200	290	340	295	12*22
ZSFZ250				250	430	405	355	12*26