WET ALARM CHECK VALVES

Model H (H-1, H-2 & H-3 3”, 4”, 6” & 8”)
Alarm check valves
300 psi (21 bar)

LISTED
EX15701

APPROVED

1725-CPR-H0008



H-1 flange/flange



H-2 groove/groove



H-3 flange/groove

PRODUCT DESCRIPTION

The AG Sprinkler Model H-1, H-2 and H-3 Alarm Check Valves are used in wet pipe fire sprinkler systems. They primarily serve a dual purpose in that they prevent a reverse flow of water through their bodies (non-return) and also provide for the use of a hydraulic fire alarm which is not dependent upon an electrical power supply for its operation. Through the use of a hydraulic retard chamber a time delay is provided to eliminate potential false alarms caused by fluctuating water supply pressures. Where constant pressure water supplies are used the retard chamber (time delay) is not necessary. By incorporating the use of electrical pressure switches, other supplemental alarms, annunciators etc. may also be used.

TECHNICAL DATA

Models	H-1 Flange / flange H-2 Groove / groove H-3 Flange / groove
Dimensions	3” (80 mm), 4” (100 mm), 6” (150 mm) & 8” (200 mm)
Water working pressure rating	300 psi (21 bar)
Factory tested hydrostatically	450 psi (32 bar)
Materials	Body: high tensile strength iron: Ductile Iron ASTM A536 Interior operating parts: highly corrosive-resistant alloys Rubber parts: selective material which have good abrasive resistance and long life expectancy in terms of resiliency
Installation	3", 4" & 6” valves: vertical and horizontal installation 8” valves: vertical installation
Trim	For constant and variable water pressure supply Optional: relief trim available

OPERATION

When there is an important water flow, for example from an opened sprinkler, the clapper of the alarm check valve opens and allow the water to enter in the system. Simultaneously, the

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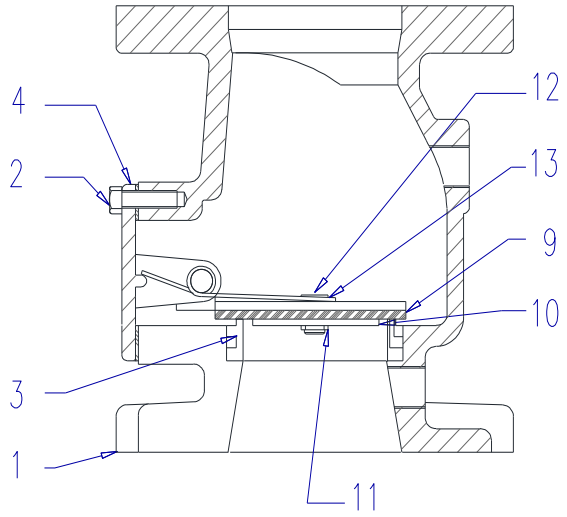
water enters in the intermediate chamber, which allows the water to activate the motor gong or other water alarms installed. These alarms continue to sound until the water flow stops.

DIMENSIONS

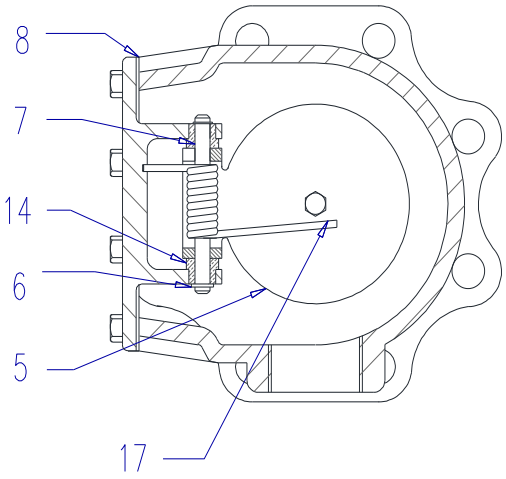
Physical data	MODEL / SIZE											
	H-1				H-2				H-3			
	3”	4”	6”	8”	3”	4”	6”	8”	3”	4”	6”	8”
Overall Length (inches)	9	9	10	14	10	10	12	15	9 1/4	9 1/2	11	13 5/8
Valve weight (Lbs)	34	42	69	147	20	22	46	106	28	37	59	130
Weight of Valve Complete with Vertical Variable Pressure Trimmings (Lbs.)	81	89	114	198	57	69	95	157	75	84	100	180

CROSS SECTIONS

3”, 4” & 6” Alarm check valve assembly.



Left side view



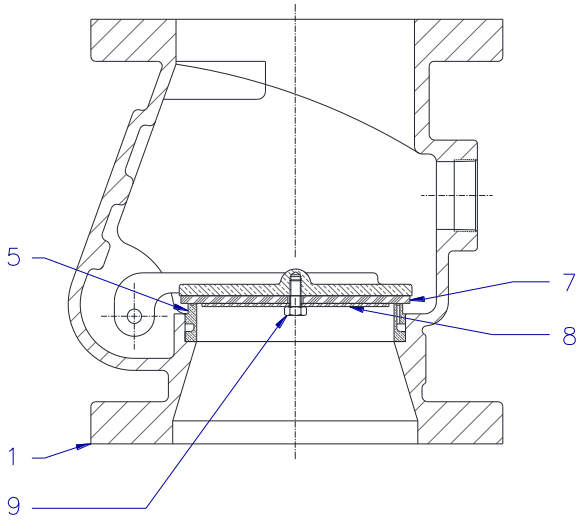
Top view

ITEM	DESCRIPTION	MATERIAL	PART. Nº 3"	PART. Nº 4"	PART. Nº 6"
1	Body H-1	Ductile Iron ASTM A536	323803D	323502D	323562D
	Body H-2	Ductile Iron ASTM A536	323827D	323552D	323666D
	Body H-3	Ductile Iron ASTM A536	323807D	323542D	323592D
2	Cover Bolt	Steel	323408	323509	323569
3	Seat Ring	Bronze	323809	323504	323564
4	Cover	Ductile Iron ASTM A536	323805D	323507D	323567D
5	Clapper	Stainless Steel	323814	323510	323570
6	Retaining Ring	Stainless Steel	323527	323517	323517
7	Hinge Pin	Stainless Steel	323818	323516	323516
8	Cover Gasket	Vellumoide	323810	323508	323568
9	Clapper Facing Disc	EPDM	323815	323511	323571
10	Disc Retainer	Stainless Steel	323816	323512	323572
11	Lock Nut	Stainless Steel	323514	323514	323514
12	Disc Retainer Bolt	Stainless Steel	323817	323513	323573
13	Sealing Washer	Hard Fiber	323515	323515	323515
14	Hinge Pin Bushing	Bronze	323819	323518	323518
15	Name Plate	Aluminum	323480	323480	323480

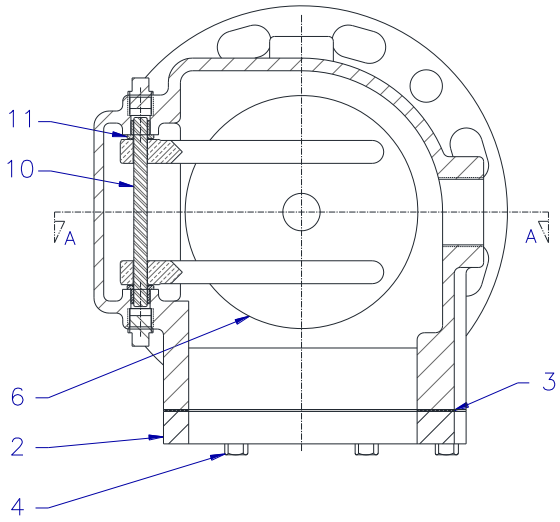
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16	Drive Screw	Stainless Steel	323520	323520	323520
17	Torsion Spring	Stainless Steel	323528	323528	323565
18	Spring Bushing	Brass	-	-	323579

8" Alarm check valve assembly.



Lateral view

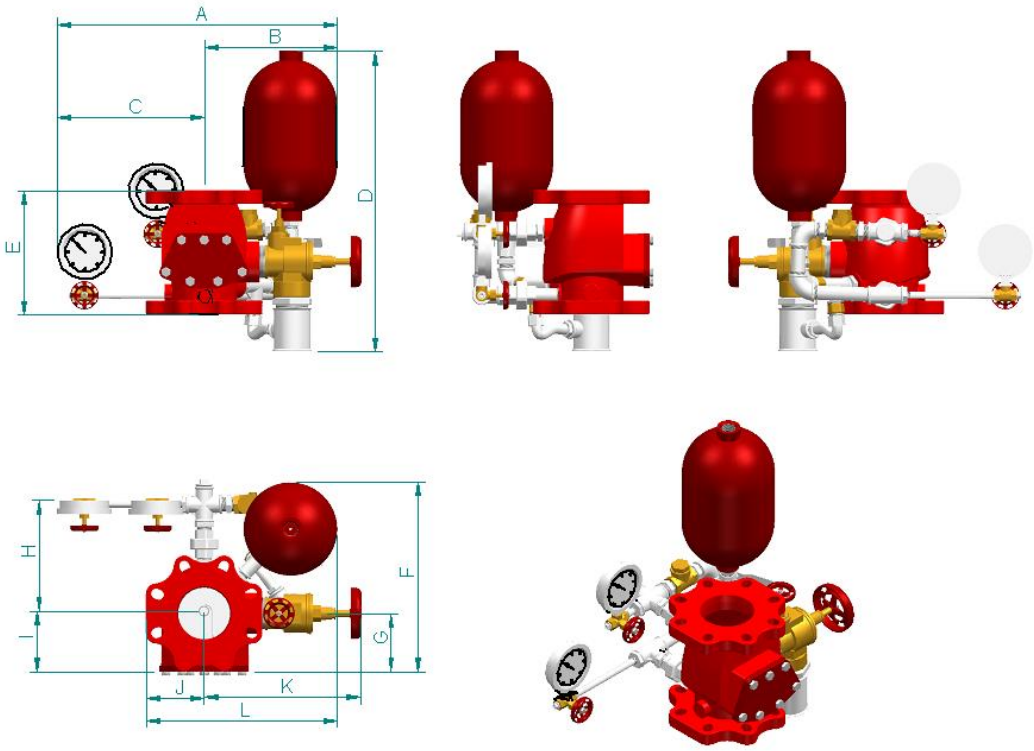


Top view

ITEM	DESCRIPTION	MATERIAL	PART. Nº 8"
1	Body H-1	Ductile Iron ASTM A536	323832D
	Body H-2	Ductile Iron ASTM A536	323858D
	Body H-3	Ductile Iron ASTM A536	323851D
2	Cover	Ductile Iron ASTM A536	323835D
3	Cover Gasket	Rubber	323833
4	Cover Bolt	Steel	323839
5	Seat Ring	Bronze	323837
6	Clapper	Bronze	323841
7	Clapper Disc	EPDM	323842
8	Disc Retainer	Stainless Steel	323843
9	Disc Retainer Bolt	Stainless Steel	323838
10	Hinge Pin	Stainless Steel	323845
11	Hinge Pin Bushing	Bronze	323846

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ALARM CHECK VALVE WITH RETARD CHAMBER DIMENSIONS



MODEL H1	DIMENSIONS (mm)											
VALVE SIZE	A	B	C	D	E	F	G	H	I	J	K	L
3" – DN80	565	270	290	590	230	350	125	220	120	90	300	350
4" – DN100	535	245	290	610	229	385	125	275	120	100	300	345
6" – DN150	560	270	290	590	254	445	145	300	145	130	320	420
8" – DN200	560	270	290	520	353	535	200	355	200	165	355	470

MODEL H2	DIMENSIONS (mm)											
VALVE SIZE	A	B	C	D	E	F	G	H	I	J	K	L
3" – DN80	565	270	290	590	258	350	125	220	120	90	300	350
4" – DN100	535	245	290	610	256	385	125	275	120	100	300	345
6" – DN150	560	270	290	590	297	445	145	300	145	130	320	420
8" – DN200	560	270	290	520	386	535	200	355	200	165	355	470

MODEL H3	DIMENSIONS (mm)											
VALVE SIZE	A	B	C	D	E	F	G	H	I	J	K	L
3" – DN80	565	270	290	590	235	350	125	220	120	90	300	350
4" – DN100	535	245	290	610	246	385	125	275	120	100	300	345
6" – DN150	560	270	290	590	279	445	145	300	145	130	320	420
8" – DN200	560	270	290	520	383	535	200	355	200	165	355	470

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ORDERING INFORMATION

ALARM VALVE ASSEMBLY

CONNECTION / POS.	VALVE SIZE 3" DN80			VALVE SIZE 4" DN100		
	Flange / Flange (H1)	Groove / Groove (H2)	Flange / Groove (H3)	Flange / Flange (H1)	Groove / Groove (H2)	Flange / Groove (H3)
Vertical Variable	PH080BBVV1	PH080RRVV1	PH080BRVV1	PH100BBVV1	PH100RRVV1	PH100BRVV1
Vertical Constant	PH080BBVC1	PH080RRVC1	PH080BRVC1	PH100BBVC1	PH100RRVC1	PH100BRVC1
Horizontal Variable	PH080BBHV1	PH080RRHV1	PH080BRHV1	PH100BBHV1	PH100RRHV1	PH100BRHV1
Horizontal Constant	PH080BBHC1	PH080RRHC1	PH080BRHC1	PH100BBHC1	PH100RRHC1	PH100BRHC1

CONNECTION / POSITION	VALVE SIZE 6" DN150			VALVE SIZE 8" DN200		
	Flange / Flange (H1)	Groove / Groove (H2)	Flange / Groove (H3)	Flange / Flange (H1)	Groove / Groove (H2)	Flange / Groove (H3)
Vertical Variable	PH150BBVV1	PH150RRVV1	PH150BRVV1	PH200BBVV1	PH200RRVV1	PH200BRVV1
Vertical Constant	PH150BBVC1	PH150RRVC1	PH150BRVC1	PH200BBVC1	PH200RRVC1	PH200BRVC1
Horizontal Variable	PH150BBHV1	PH150RRHV1	PH150BRHV1			
Horizontal Constant	PH150BBHC1	PH150RRHC1	PH150BRHC1			

CONNECTION / POS.	VALVE SIZE 2 ½" DN65
	Groove / Groove (H2)
Vertical Variable	PH065BBVV1
Vertical Constant	PH065BBVC1
Horizontal Variable	PH065BBHV1
Horizontal Constant	PH065BBHC1

SEPARATED COMPONENTS

CONNECTION / SIZE	ALARM VALVE 21bar (300psi)			DISMOUNTED TRIM	
	Flange / Flange (H1)	Groove / Groove (H2)	Flange / Groove (H3)	Vertical	Horizontal
2 ½" DN65		V065RR1E		TR065VT0	TR065HZ0
3" DN80	VH080BB1H1	VH080RR1H2	VH080BR1H3	TR080VT0	TR080HZ0
4" DN100	VH100BB1H1	VH100RR1H2	VH100BR1H3	TR100200VT0	TR100150HZ0
6" DN150	VH150BB1H1	VH168RR1H2	VH168BR1H3	TR100200VT0	TR100150HZ0
8" DN200	VH200BB1H1	VH200RR1H2	VH200BR1H3	TR100200VT0	

Specify:

Model	
Quantity	
Size	
Installation	
Loose trim	
Preassembled trim	
Fully assembled Factory trim	
Trim pressure	
Relief trim (optional)	

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AG FIRE SPRINKLER

AG Fire Sprinkler offers a wide selection of components. Then a list of products is presented by AG Fire Sprinkler, we can offer all these components, made with precision to protect people, anywhere, anytime.

- Sprinklers
  - Standard Coverage
  - Extended Coverage
  - Storage
  - Dry
  - Accessories
- System Valves
  - Wet
  - Dry
  - Preaction Equipment
  - Accessories
- Spray System Open Nozzles
  - High Velocity Nozzles
  - Medium Velocity Nozzles
  - Window Nozzles
  - Hydroshield Nozzles
  - Mushroom Type Nozzles
- Foam equipment
  - Tanks
  - Proportioners
  - Foam Discharge Equipment
  - Foam Concentrates
- Deluge equipment for Water Spray and Foam
  - Clapper Deluge Valves
  - Diaphragm Deluge Valves
- Monitors
  - Manual Monitors
  - Remote Monitors
  - Monitor Nozzles
  - Towers and Trolleys
- Valves
  - Butterfly Valves
  - Gate Valves
  - Check Valves
  - Pressure Control Valves
  - Test and Drain
  - Hose, Hydrant and Fire Connection Valves
  - Fire Department Connections

The equipment presented in this bulletin is to be installed in accordance with the latest published Standard of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable.
This documentation is not contractual. AG Fire Sprinkler reserves the right to any kind of change without notice.

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