



WET ALARM CHECK VALVE MODEL SFL-ACV
RETARDING CHAMBER MODEL SFL-RET
WATER MOTOR ALARM GONG MODEL SFL-WMAG



GENERAL DESCRIPTION: WET ALARM CHECK VALVE

The SANFLO Model SFL-ACV 300psi Alarm Check Valves are used in wet pipe fire sprinkler systems. They serve a dual purpose: preventing a reverse flow of water through their bodies (non-return) and provide for the use of a hydraulic fire alarm which does not depend upon an electrical power supply for its operation. The system uses a hydraulic retarding chamber as a time delay, which is provided to eliminate potential false alarms caused by fluctuations in the water supply pressure. SANFLO models 3", 4", 6" and 8" 300psi Alarm Check Valves are installed in vertical positions and the trim is provided for variable water supply pressures. The body and cover are constructed of high tensile strength ductile iron. All interior operating parts are machined from highly corrosive-resistant alloys, each having high strength and good wear resistance.

GENERAL DESCRIPTION: RETARDING CHAMBER

The SANFLO Model SFL-RET Retarding Chamber is an accessory which is used with variable pressure wet sprinkler systems where water motor alarms are used in conjunction with SANFLO's Alarm Check Valves. It serves primarily as a hydraulic time delay to prevent most false alarms associated with fluctuating water supply pressures. In situations where excessive water pressure surges occur, the SANFLO Retarding Chamber is required to collect excess water from the Alarm Check Valve and feed water back into the main drain, prior to activating the alarm. Water enters the retarding chamber through the Inlet and automatically flows through a restricted orifice and to drain; when the drain capacity is exceeded, as when the alarm check valve clapper remains open or when the system is being tested, the retarding chamber capacity is reached, and water then flows through the Outlet to the water motor alarm.

GENERAL DESCRIPTION: WATER MOTOR ALARM GONG

SANFLO's Model SFL-WMAG Water Motor Alarm Gong is a hydraulically operated outdoor alarm for use with fire protection systems. It can be used in conjunction with SANFLO's Model SFL-ACV Alarm Check Valve, to sound a local alarm. This water-powered system eliminates the need for an electrical alarm and will operate even if electrical power is lost.

The Water Motor Alarm Gong is suitable for mounting to any type of rigid wall. It comes with a listed and approved strainer for use in the alarm line. Model SFL-WMAG utilizes a lightweight, impeller design which can produce a very high decibel sound level. As water passes through the water motor gong, the impeller turns, and the shaft rotates. The rotating shaft drives a striker assembly which rings the gong, sounding a continuous alarm if the water flow continues.



WET ALARM CHECK VALVE MODEL SFL-ACV
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KEY TECHNICAL FEATURES MODEL SFL-ACV:

GROOVED CONNECTIONS CONFORMS TO: AWWA C606 / ISO 6182-12 STANDARD	MAX WORKING PRES: 300PSI (20.7 BAR), TEST PRES. OF 600PSI (41.4 BAR)
APPROVALS: UL & FM	MIN/MAX WORKING TEMPERATURE: 39°F TO 158°F (4°C TO 70°C)
COATING: EPOXY COATED INTERIOR AND EXTERIOR BY ELECTROSTATIC SPRAY	FOR USE IN VERTICAL INSTALLATIONS

KEY TECHNICAL FEATURES MODEL MODEL SFL-RET:

CAPACITY - 1 GALLON (3.785 LITERS)	MAX WORKING PRES: 300PSI (20.7 BAR), TEST PRES. OF 600PSI (41.4 BAR)
APPROVALS: UL & FM	MIN/MAX WORKING TEMPERATURE: 39°F TO 158°F (4°C TO 70°C)
COATING: EPOXY COATED EXTERIOR BY ELECTROSTATIC SPRAY	BODY CONSTRUCTED OF HIGH TENSILE CAST IRON

KEY TECHNICAL FEATURES MODEL MODEL SFL-WMAG:

DESIGNED AND MANUFACTURED IN ACCORDANCE WITH UL 193 – FM 1055	MAX WORKING PRES: 300PSI (20.7 BAR), TEST PRES. OF 600PSI (41.4 BAR)
APPROVALS: UL & FM	MIN/MAX WORKING TEMPERATURE: 32°F TO 212°F (0°C TO 100°C)
COATING: EPOXY COATED EXTERIOR BY ELECTROSTATIC SPRAY	HYDRAULIC OPERATED ALARM FOR FIRE PROTECTION SYSTEMS
INLET CONNECTION" 3/4" NPT	OUTLET CONNECTION" 1" NPT

CARE AND MAINTENANCE

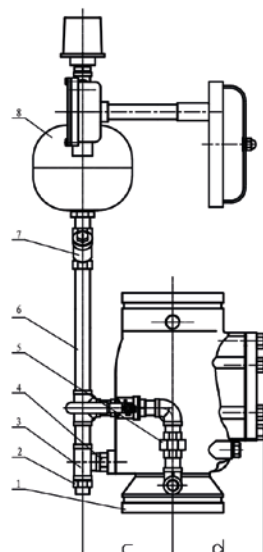
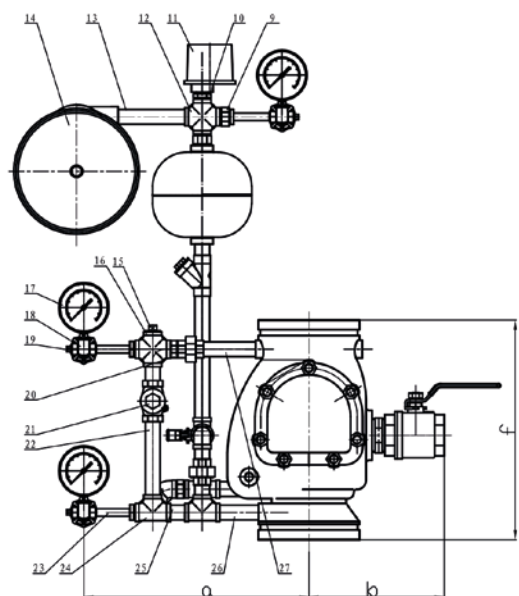
No regular maintenance is required; however, it is advisable to annually inspect and verify proper operation. The frequency of testing, inspections, and/or maintenance is the sole responsibility of the end user. Only qualified fire protection integrators should perform any required maintenance involving the valve.

ORDERING INFORMATION

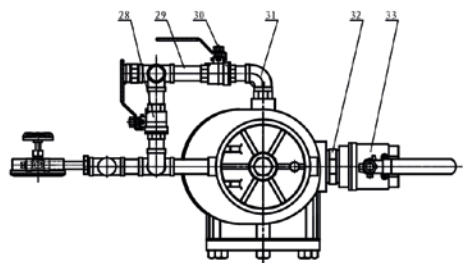
SPECIFY MODEL **SFL-ACV-G** and include dimension (3", 4", 6" or 8"),
MODEL **SFL-RET** and MODEL **SFL-WMAG**

SANFLO PRODUCT WARRANTY

1 year from original sale date. Sanflo guarantees to repair or replace any products deemed to be defective in material or fabrication. Visit our website for full warranty details.



ASSEMBLY DRAWING WITHOUT
COMPENSATOR SYSTEM



ASSEMBLY DRAWING WITHOUT
COMPENSATOR SYSTEM

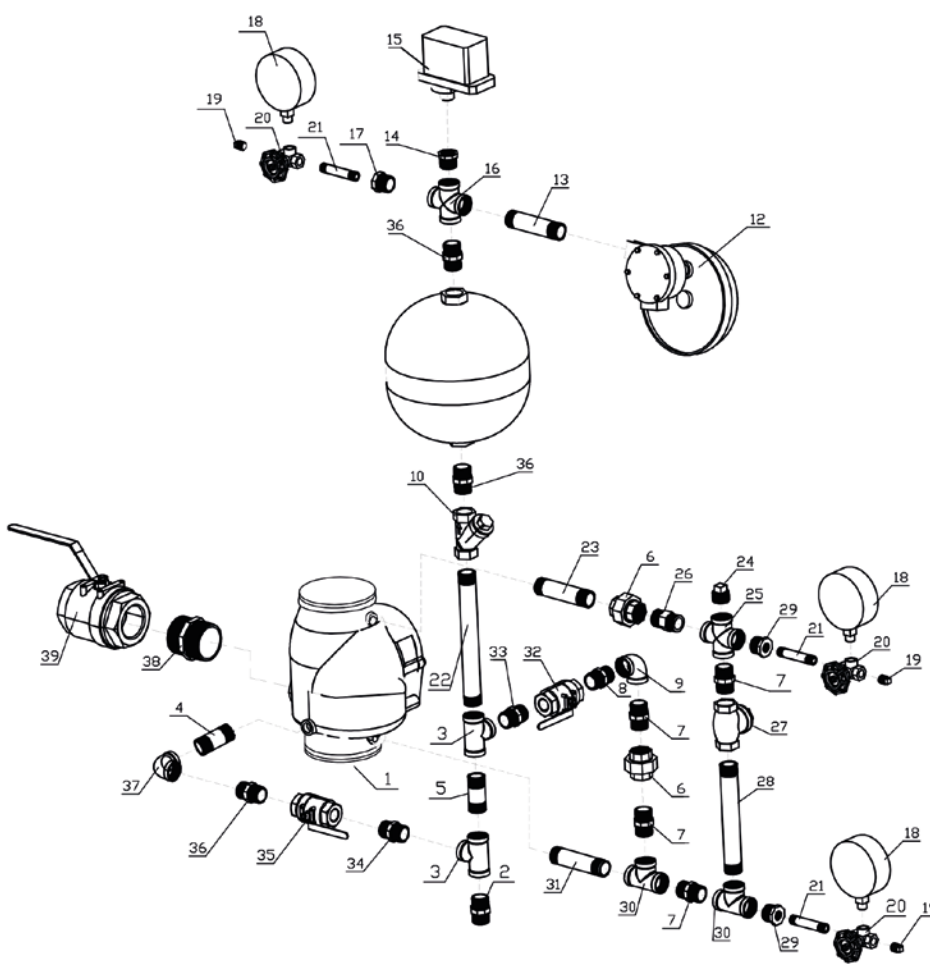
SIZE	2"	2.5"	3"	4"	5"	6"	8"	10"	12"
a	340	340	340	342	349	349	415	475	495
b	205	205	205	250	274	274	290	340	368
c	145	145	145	160	180	180	205	240	270
d	110	110	110	136	162	162	195	235	270
f	245	245	245	316	386	390	438	535	622

TECHNICAL SPECIFICATION

1. WORKING PRESSURE: 175, 200, 250, 300PSI;
2. GROOVE STANDARD: ARMA C606/ISO 6182-12.
3. WORKING TEMPERATURE: 4°C~70°C
4. INSTALLATION HEIGHT OF THE GONG ACCORDING TO CLIENTS' REQUIREMENT.
5. GONG CAN BE INSTALLED INDOOR OR OUTDOOR THROUGH WALL AS TO CLIENTS' REQUIREMENTS
6. EXTERNAL DIMENSIONS FOR REFERENCE ONLY.
7. ELECTROSTATIC SPRAYING BOTH INSIDE AND OUTSIDE OF THE BODY.

33	BALL VALVE	SS304	1	SS304, ASTM A276
32	NIPPLE	SS304	1	SS304, ASTM A276
31	ELBOW	SS304	2	SS304, ASTM A276
30	BALL VALVE	SS304	1	SS304, ASTM A276
29	NIPPLE	SS304/Steel	1	S.S. 304, ASTM A276 OR 1045, ASTM A29
28	BALL VALVE	SS304	1	SS304, ASTM A276
27	NIPPLE	SS304/Steel	1	S.S. 304, ASTM A276 OR 1045, ASTM A29
26	NIPPLE	SS304/Steel	1	S.S. 304, ASTM A276 OR 1045, ASTM A29
25	NIPPLE	SS304/Steel	4	S.S. 304, ASTM A276 OR 1045, ASTM A29
24	TEE	SS304	2	SS304, ASTM A276
23	NIPPLE	SS304/Steel	3	S.S. 304, ASTM A276 OR 1045, ASTM A29
22	NIPPLE	SS304/Steel	1	S.S. 304, ASTM A276 OR 1045, ASTM A29
21	CHECK VALVE	SS304	1	SS304, ASTM A276
20	ORIFICE, RETARD	C954	1	C95400, ASTM B148
19	PLUG	Steel	3	1045, ASTM A29
18	3-WAY VALVE GAUGE	C954	3	C95400, ASTM B148
17	PRESSURE GAUGE	PFE-00A 600PSI	3	
16	CROSS	SS304	2	SS304, ASTM A276
15	PLUG	SS304/C954	1	S.S. 304, ASTM A276 OR C95400, ASTM B148
14	GONG ASSEMBLY	MH-SLJL-00	1	
13	NIPPLE	Steel/SS304	1	S.S. 304, ASTM A276 OR 1045, ASTM A29
12	CROSS	SS304	1	SS304, ASTM A276
11	PRESSURE SWITCH	ZSJY1.6BP	1	
10	REDUCER BUSHING	SS304	1	SS304, ASTM A276
9	REDUCER BUSHING	SS304	1	SS304, ASTM A276
8	RETARD CHAMBER	Steel	1	1045, ASTM A29
7	Y STRAINER	SS304	1	SS304, ASTM A276
6	NIPPLE	SS304/Steel	1	SS304, ASTM A276/1045
5	UNION	SS304	1	SS304, ASTM A276
4	NIPPLE	SS304	6	SS304, ASTM A276
3	TEE	SS304	2	SS304, ASTM A276
2	ALARM LINE ORIFICE	C954	1	C95400, ASTM B148
1	BODY	DI	1	DI, ASTM A536
NO.	NAME	MATERIAL	QTY.	REMARK

				3" - 8"		SFL-ACV	
				ALARM SYSTEM		INDEX	WEIGHT
				G by G		01	SCALE
				SFL-ACV-300GG		PAGE	PAGES
							



39	BALL VALVE	1	Assembly	
38	NIPPLE	1	SS304/LTH350-10	
37	ELBOW	1	SS304/LTH350-10	
36	NIPPLE	3	SS304/LTH350-10	
35	BALL VALVE	1	Assembly	
34	NIPPLE	1	SS304/LTH350-10	
33	NIPPLE	1	SS304/LTH350-10	
32	BALL VALVE	1	Assembly	
31	PIPE	1	Galvanized pipe	
30	TEE	2	SS304/LTH350-10	
29	NIPPLE	2	SS304/LTH350-10	
28	PIPE	1	Galvanized pipe	
27	CHECK VALVE	1	Assembly	
26	ORIFICE RESTRICTION	1	C954	
25	CROSS	1	SS304/LTH350-10	
24	PLUG	1	C954	
23	PIPE	1	Galvanized pipe	
22	PIPE	1	Galvanized pipe	
21	PIPE	3	Galvanized pipe	
20	3-WAY VALVE	3	Assembly	
19	PLUG	3	Galvanized WCB	
18	PRESSURE GAUGE	3	Assembly	
17	NIPPLE	1	SS304/LTH350-10	
16	CROSS	1	SS304/LTH350-10	
15	PRESSURE SWITCH	1	Assembly	
14	NIPPLE	1	SS304/LTH350-10	
13	PIPE	1	Galvanized pipe	
12	ALARM BELL	1	Assembly	
11	RETARD CHAMBER	1	Assembly	
10	Y STRAINER	1	C954/SS304	
9	ELBOW	1	SS304/LTH350-10	
8	NIPPLE	1	SS304/LTH350-10	
7	NIPPLE	4	SS304/LTH350-10	
6	UNION	2	SS304/LTH350-10	
5	PIPE	2	Galvanized pipe	
4	PIPE	1	Galvanized pipe	
3	TEE	2	SS304/LTH350-10	
2	ORIFICE RESTRICTION	1	C954	
1	ALARM VALVE	1	ASSEMBLY	

NO.	NAME	QTY.	MATERIAL	REMARK
			3" - 8"	SFL-ACV
			ALARM VALVE G by G	
MARK INDEX	FILE NO.	SIGN	DATE	INDEX WEIGHT SCALE
DESIGNED				01
CHECKED				PAGE PAGES
CRAFT				
APPROVED				

SFL-ACV-300GG