



ZIGGIOTTO



Valvola a preazione scanalata

Articolo S93S

*Campana di allarme
modello WM*



*Valvola a preazione Globe
modello RCW completa di
acceleratore e valvola a farfalla
già collegata al trim*



*Set mantenimento
di pressione modello H-1*



Valvola per impianti a preazione modello RWC

La valvola a preazione Globe Model RCW è una valvola con differenziale a scatto ad attivazione elettrica. Viene utilizzata come valvola a controllo automatico dell'acqua negli impianti a preazione. Funge da valvola di controllo principale installata tra la linea di approvvigionamento acqua e l'impianto sprinkler a preazione dotato di sprinkler automatici e tubi riempiti ad aria compressa o azoto. Viene fornita completa di trim, acceleratore e valvola a farfalla UL/FM.

Valvola a secco modello RWC

Manuale di installazione: manuale valvola preazione serie RCW EN rev 0

Dimensione valvola	4"	6"
Codice prodotto	R317449-B	R317494-B
Prezzo di listino	5.920,00 €	6.550,00 €
Pagina manuale	3-5-7	3-6-7
Lunghezza complessiva valvola	447,7mm	501,6mm
Pressione (Psi)	175(acqua) 45/50(aria)	175(acqua) 45/50(aria)

Campana idraulica di allarme Globe modello WM

Le campane idrauliche d'allarme Globe modello WM possono essere utilizzate con valvole a umido, a secco, a diluvio e valvole a preazione per emettere un suono di allarme localizzato, senza un collegamento elettrico. Possono essere montate su qualsiasi tipo di muro fino a 40 cm.

Campana idraulica di allarme Globe modello WM

Manuale di installazione: manuale campana EN rev 0

Codice prodotto	R325500
Prezzo di listino	385,00 €

Mantenitore di pressione Globe modello H-1

Il mantenitore di pressione Globe modello H-1 viene impiegato per il controllo della pressione di aria (o azoto) proveniente dal compressore negli impianti a secco, negli impianti di preazione, nell'impianto pilota di preazione a secco, o negli impianti a diluvio pilotati a secco.

Mantenitore di pressione modello H-1

Manuale di installazione: manuale set mantenimento pressione EN rev 0

Codice prodotto	R320585
Prezzo di listino	605,00 €

MODEL RCW SINGLE INTERLOCK PREACTION SYSTEM ELECTRIC, WET PILOT, AND DRY PILOT ACTUATION

GENERAL DESCRIPTION

The Globe Model RCW single interlock preaction system utilizes a hydraulically operated external resetting differential latching style valve designed for use where quick-opening is desired. The Model RCW valve is used as an automatic water control valve in single interlock preaction applications including; electric, wet pilot, or dry pilot actuation. The Model RCW valve serves as the primary water control valve installed in the water supply to a single interlock preaction sprinkler system incorporating automatic sprinklers with supervisory air monitoring the integrity of the system piping.

Setting of the Model RCW valve in a single interlock preaction system requires water pressure in the pressure chamber being maintained on the plunger rod. The pressure on the plunger rod forces the lever arm/roller assembly against the clapper which in turn keeps the supply water from entering the sprinkler system piping. Water pressure is provided to the pressure chamber through a connection to the main water supply at a point upstream of the system main control valve. This connection also supplies water pressure up to the solenoid valve; line of wet pilot sprinklers; or to a dry pilot actuator; as appropriate. In the standby condition, the valve is normally closed and will automatically activate (trip) upon the activation of the detection system, which may be electrical or mechanical in nature depending on the type of system, as a result of a fire condition. The RCW valve may also be operated by means of a manual release, which is provided in the trim of all single interlock preaction valve trim configurations, to override the automatic detection system. Operation of a system automatic sprinkler only, will not actuate the system control valve, but will initiate a low air supervisory condition.

When heat from a fire opens a pilot sprinkler, or operates an electric device, water pressure in the pressure chamber decays resulting in the movement of the push rod assembly, releasing the lever/roller assembly from the clapper. The system water supply pressure forces the valve clapper open resulting in water flow into the system piping. Upon system activation, fire alarm signaling is provided by means of flowing water through the alarm port/intermediate chamber and associated alarm line trim. Water discharges from the automatic sprinkler once the operating element of the automatic sprinkler is activated by the heat of the fire. The flow of water activates a pressure switch which in turn notifies local alarms and/or an alarm signaling monitoring service. After the main control valve has been shut, the system drained and the detection system has been reset, the RCW single interlock preaction valve is easily set/reset by means of pushing the reset knob. The reset knob returns the clapper to the closed position, without needing to remove the cover plate of the valve.



**MODEL RCW SINGLE
INTERLOCK PREACTION**

(Dry Pilot actuation shown as reference)

TECHNICAL DATA

Approvals

- cULus
- FM - Electric Actuation Only Single Interlock Approval Offered By FM Global

Maximum System Working Pressure (Dependent on solenoid valve selection- Standard offering 175 psi (12 Bar))

- 300 psi (20.6 Bar)- cULus/FM

End Connections

- Groove x Groove

Materials of Construction

- See Technical Datasheet GFV 200 for materials of construction for the Model RCW Valve

*Patents Pending

MODEL RCW SINGLE INTERLOCK PREACTION ELECTRIC ACTUATION

An electric actuation trim is one optional actuation trim arrangement for the Globe Model RCW valve. With this configuration, an electric fire detection system such as heat detectors, smoke detectors or any other electrical initiating devices, connected to a fire protection releasing control panel can be used to actuate the solenoid valve on the Model RCW valve trim. System supervisory air pressure is used to ensure the integrity of the system piping. Typically this air pressure is maintained at 10 psi (0.7 bar).

Operation of one of the automatic sprinklers will not cause the control valve to operate, but will result in a low air pressure alarm signal. Only a signal from the detection system will cause the control valve to activate/trip. Water pressure is maintained in the pressure chamber and up to the normally closed solenoid valve through a restricted connection from the main water supply, taken upstream of the system main control valve. (The pressure chamber supply control valve must remain in the open position at all times when the system is in service)

Upon operation of the detection system the electric solenoid valve opens. The discharge from the solenoid valve is at a flow rate greater than that which can pass through the restriction in the pressure chamber fill line supplying the pressure chamber. This causes a drop in the water pressure in the pressure chamber. With this drop in pressure, the clapper can no longer be held in the closed position by the lever/roller assembly. The valve operates and water is introduced into the system piping. Typically the detection system is more sensitive than the automatic sprinklers and will initiate the activation of the solenoid valve before the automatic sprinklers operate. Operation of the hydraulic manual control station at the single interlock preaction valve also relieves the water pressure from the pressure chamber and operates the valve.

Note: Product offering include G5118026 solenoid valve. If other solenoid desired inform customer service at time of order.

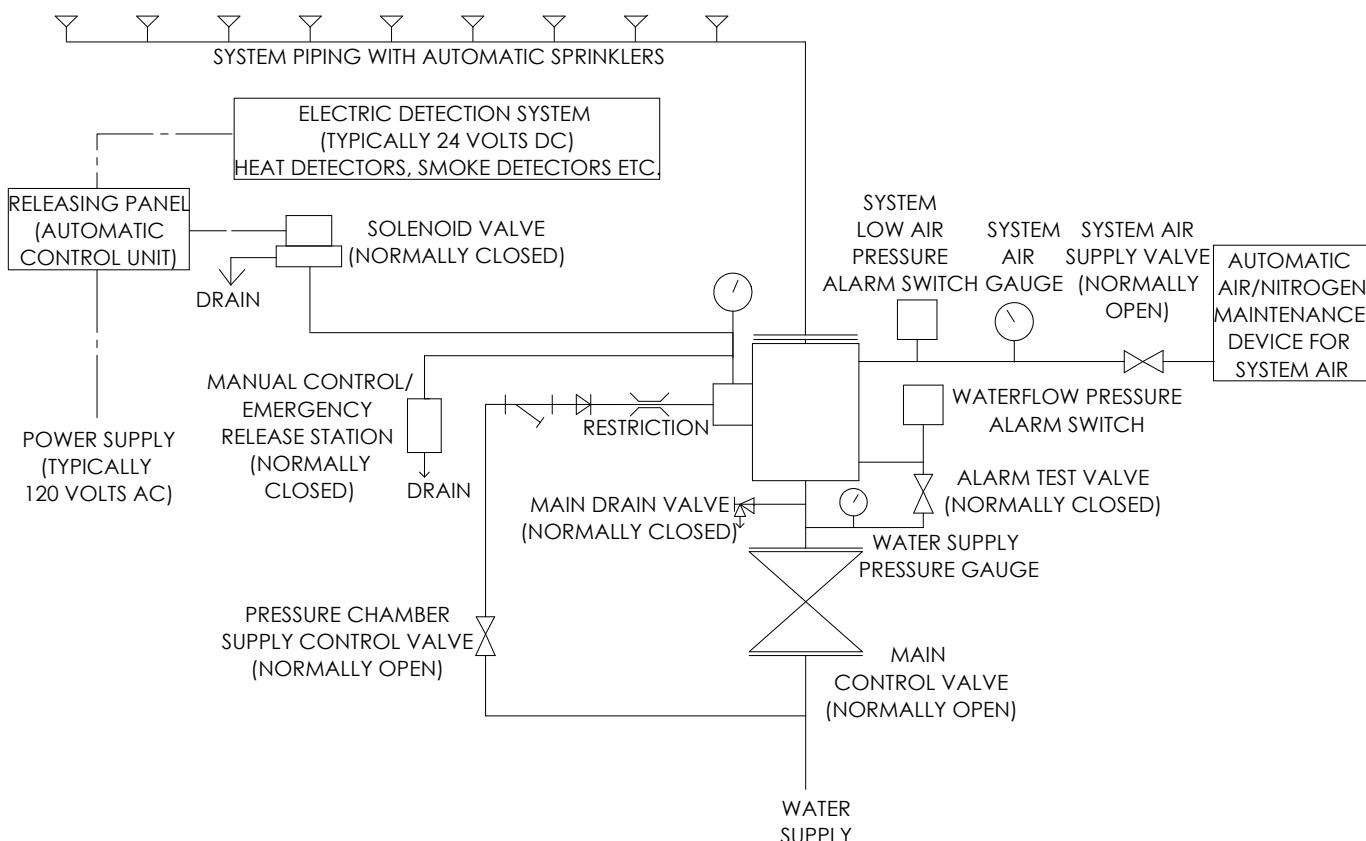
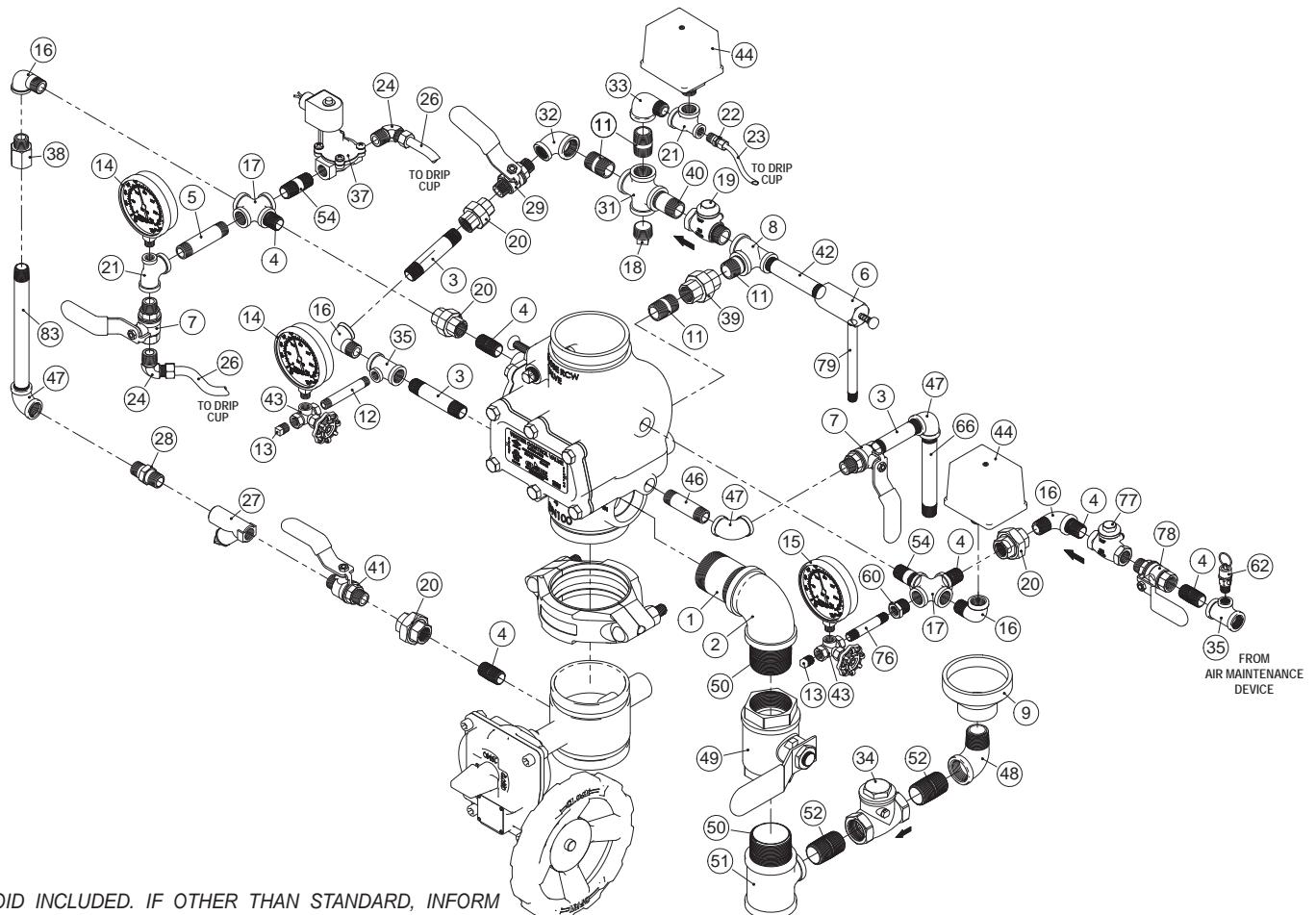


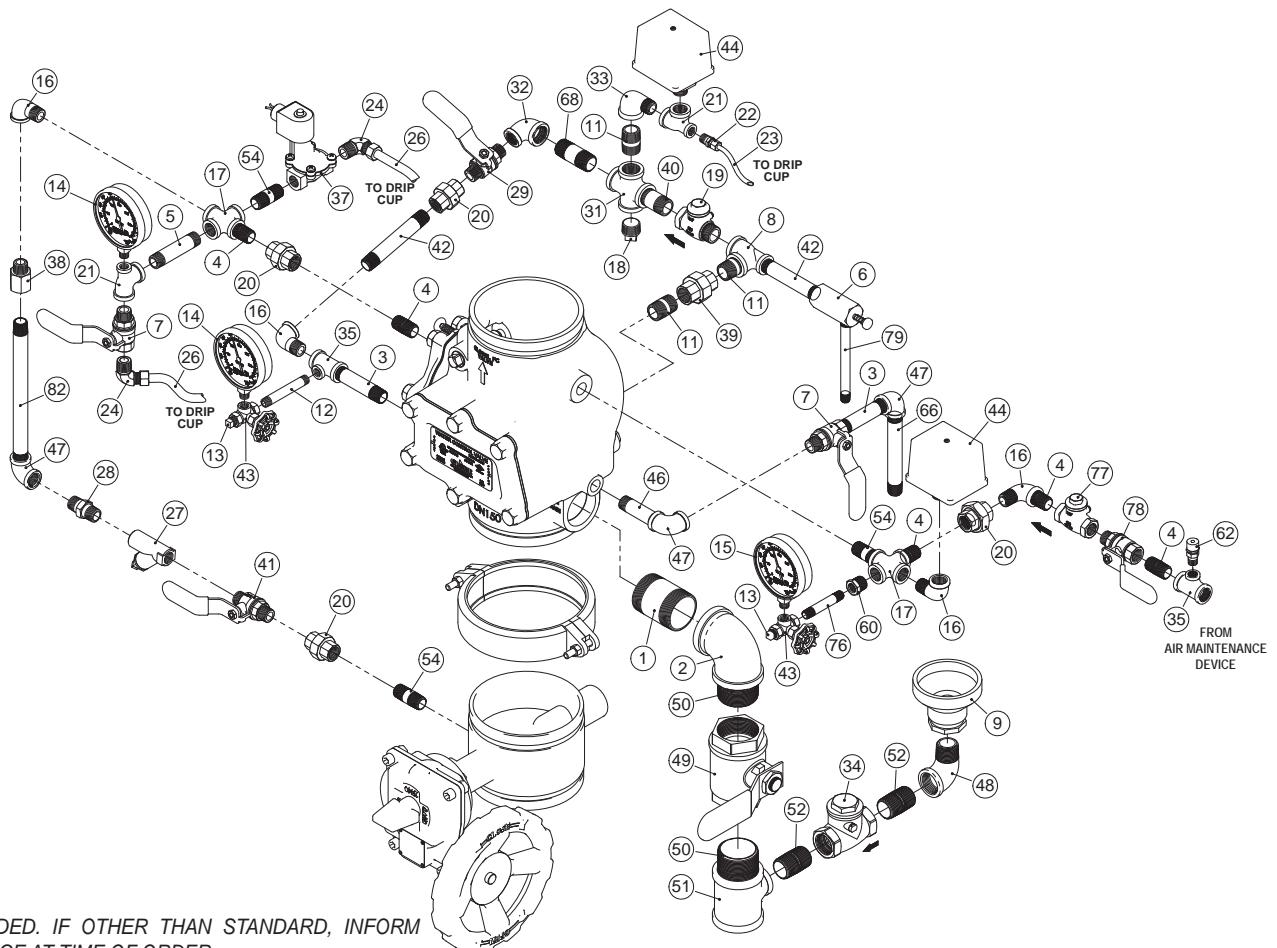
FIGURE 1:SINGLE INTERLOCK PREACTION ELECTRIC ACTUATION SCHEMATIC

FIGURE 2: 4" RCW SINGLE INTERLOCK PREACTION ELECTRIC ACTUATION TRIM ARRANGEMENT



ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	310802-G	2" x 3" GALV. NIPPLE	1	32	311212-G	3/4" x 1/2" GALV. REDUCING ELBOW	1
2	311208-G	2" 90° GALV. ELBOW	1	33	311224-G	3/4" x 1/2" GALV. STREET ELBOW	1
3	310306-G	1/2" x 4" GALV. NIPPLE	3	34	311801	1" CHECK VALVE (FxF)	1
4	310301-G	1/2" x 1 1/2" GALV. NIPPLE	6	35	311314-G	1/2" x 1/2" x 1/4" GALV. TEE	2
5	310305-G	1/2" x 3 1/2" GALV. NIPPLE	1	37	G5118026	SOLENOID VALVE WITH 24V DC COIL	1
6	323300	VELOCITY CHECK VALVE	1	38	317395	1/2" RESTRICTOR	1
7	311696-R	1/2" BALL VALVE MxF - RED HANDLE	2	39	311404-G	3/4" GALV. UNION	1
8	311313-G	3/4" x 1/2" x 3/4" GALV. TEE	1	40	310401-G	3/4" x 2" GALV. NIPPLE	1
9	317398	DRIP CUP ASSEMBLY	1	41	311794-GR	1/2" BALL VALVE Mxm - GREEN HANDLE	1
11	310413-G	3/4" x 1 1/2" GALV. NIPPLE	4	42	310308-G	1/2" x 5" GALV. NIPPLE	1
12	310105-G	1/4" x 3 1/2" GALV. NIPPLE	1	43	311683	1/4" 3-WAY VALVE	2
13	311001-G	1/4" GALV. PLUG	2	44	1340104	PS-10-2 ALARM SWITCH	2
14	300119-D	3-1/2" WATER GAUGE (300PSI)	2	46	310304-G	1/2" x 3" GALV. NIPPLE	1
15	300120-D	3-1/2" AIR GAUGE (250PSI)	1	47	311203-G	1/2" GALV. ELBOW	3
16	311210-G	1/2" 90° GALV. STREET ELBOW	4	48	311207-G	1" GALV. STREET ELBOW	1
17	300111-G	1/2" GALV. CROSS	2	49	311799-R	2" BALL VALVE (FxF) - RED HANDLE	1
18	311004-G	3/4" GALV. PLUG	1	50	310800-G	2" CLOSE GALV. NIPPLE	2
19	311786	3/4" CHECK VALVE MxF	1	51	311338-G	2" x 2" x 1" GALV. TEE	1
20	311403-G	1/2" GALV. UNION	4	52	310501-G	1" x 2" GALV. NIPPLE	2
21	311305-G	1/2" x 1/4" x 1/2" GALV. TEE	2	54	310302-G	1/2" x 2" GALV. NIPPLE	2
22	310161	1/4" TUBE CONNECTOR	1	60	311100-G	1/2" x 1/4" GALV. REDUCING BUSHING	1
23	M-320604	1/4" COPPER TUBE	-	62	317445	1/4" PRESSURE RELIEF VALVE (ADJ. PSI) FACTORY SET @ 45 PSI	1
24	310346	1/2" ELBOW TUBE CONNECTOR	2	66	310310-G	1/2" x 6" GALV. NIPPLE	1
26	M-320591	1/2" COPPER TUBE	-	76	310104-G	1/4" x 3" GALV. NIPPLE	1
27	317397	1/2" Y-STRAINER	1	77	311639	1/2" CHECK VALVE (FxF)	1
28	317396	1/2" SPRING LOADED CHECK VALVE	1	78	311696-GR	1/2" BALL VALVE Mxf - GREEN HANDLE	1
29	311794-R	1/2" BALL VALVE Mxm - RED HANDLE	1	79	310110-G	1/4" x 6" GALV. NIPPLE	1
31	300112-G	3/4" GALV. CROSS	1	83	310312-G	1/2" x 9" GALV. NIPPLE	1

FIGURE 3: 6" RCW SINGLE INTERLOCK PREACTION ELECTRIC ACTUATION TRIM ARRANGEMENT

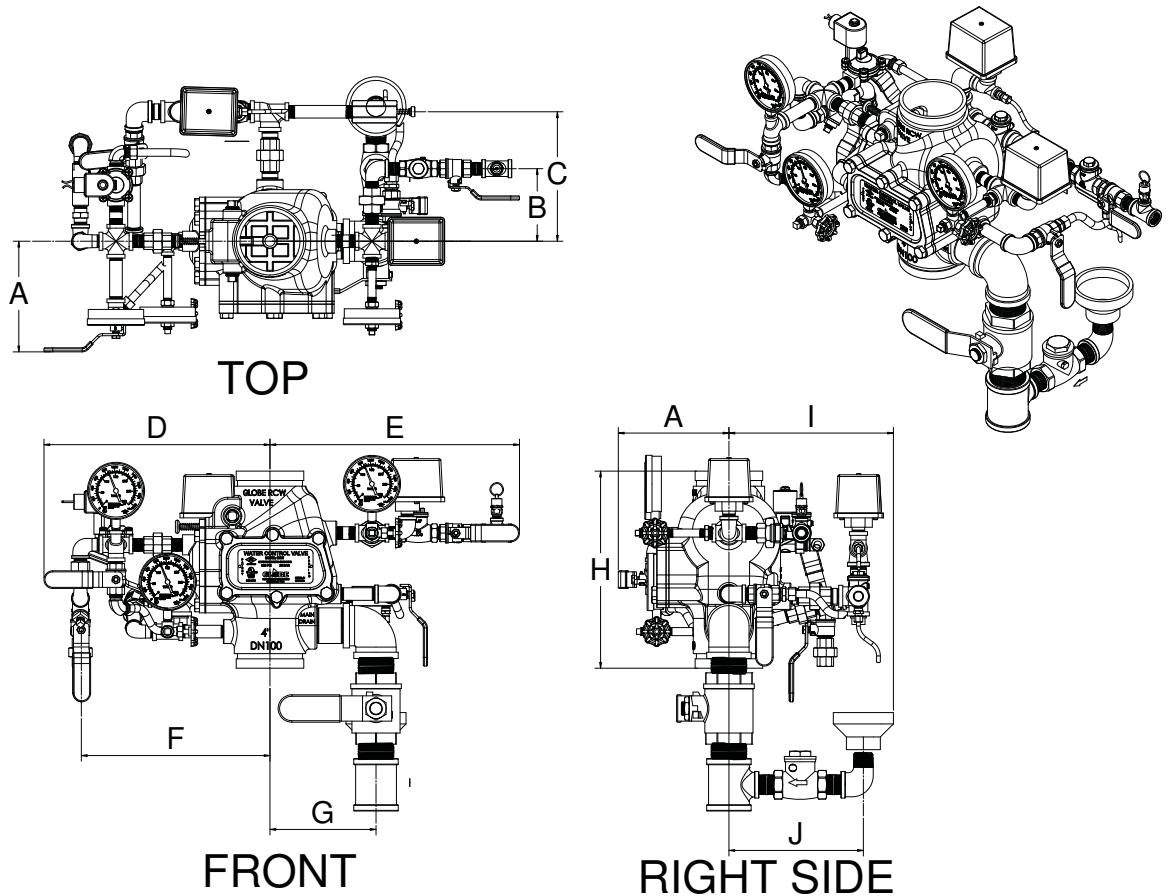


NOTE:

**1 SOLENOID INCLUDED. IF OTHER THAN STANDARD, INFORM
CUSTOMER SERVICE AT TIME OF ORDER**

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	310802-G	2" x 3" GALV. NIPPLE	1	33	311224-G	3/4" x 1/2" GALV. STREET ELBOW	1
2	311208-G	2" 90° GALV. ELBOW	1	34	311801	1" CHECK VALVE (FxF)	1
3	310306-G	1/2" x 4" GALV. NIPPLE	2	35	311314-G	1/2" x 1/2" x 1/4" GALV. TEE	2
4	310301-G	1/2" x 1 1/2" GALV. NIPPLE	5	37	G5118026	SOLENOID VALVE WITH 24V DC COIL	1
5	310305-G	1/2" x 3 1/2" GALV. NIPPLE	1	38	317395	1/2" RESTRICTOR	1
6	323300	VELOCITY CHECK VALVE	1	39	311404-G	3/4" GALV. UNION	1
7	311696-R	1/2" BALL VALVE MxF - RED HANDLE	2	40	310401-G	3/4" x 2" GALV. NIPPLE	1
8	311313-G	3/4" x 1/2" x 3/4" GALV. TEE	1	41	311794-GR	1/2" BALL VALVE MxM - GREEN HANDLE	1
9	317398	DRIP CUP ASSEMBLY	1	42	310308-G	1/2" x 5" GALV. NIPPLE	2
11	310413-G	3/4" x 1 1/2" GALV. NIPPLE	3	43	311683	1/4" 3-WAY VALVE	2
12	310105-G	1/4" x 3 1/2" GALV. NIPPLE	1	44	1340104	PS-10-2 ALARM SWITCH	2
13	311001-G	1/4" GALV. PLUG	2	46	310304-G	1/2" x 3" GALV. NIPPLE	1
14	300119-D	3-1/2" WATER GAUGE (300PSI)	2	47	311203-G	1/2" GALV. ELBOW	3
15	300120-D	3-1/2" AIR GAUGE (250PSI)	1	48	311207-G	1" GALV. STREET ELBOW	1
16	311210-G	1/2" GALV. STREET ELBOW	4	49	311799-R	2" BALL VALVE (FxF) - RED HANDLE	1
17	300111-G	1/2" GALV. CROSS	2	50	310800-G	2" CLOSE GALV. NIPPLE	2
18	311004-G	3/4" GALV. PLUG	1	51	311338-G	2" x 2" x 1" GALV. TEE	1
19	311786	3/4" CHECK VALVE MxF	1	52	310501-G	1" x 2" GALV. NIPPLE	2
20	311403-G	1/2" GALV. UNION	4	54	310302-G	1/2" x 2" GALV. NIPPLE	3
21	311305-G	1/2" x 1/4" x 1/2" GALV. TEE	2	60	311100-G	1/2" x 1/4" GALV. REDUCING BUSHING	1
22	310161	1/4" TUBE CONNECTOR	1	62	317445	1/4" PRESSURE RELIEF VALVE (ADJ.PSI) FACTORY SET @ 45 PSI	1
23	M-320604	1/4" COPPER TUBE	-	66	310310-G	1/2" x 6" GALV. NIPPLE	1
24	310346	1/2" ELBOW TUBE CONNECTOR	2	68	310402-G	3/4" x 2 1/2" GALV. NIPPLE	1
26	M-320591	1/2" COPPER TUBE	-	76	310104-G	1/4" x 3" GALV. NIPPLE	1
27	317397	1/2" Y-STRAINER	1	77	311639	1/2" CHECK VALVE (FxF)	1
28	317396	1/2" SPRING LOADED CHECK VALVE	1	78	311696-GR	1/2" BALL VALVE MxF - GREEN HANDLE	1
29	311794-R	1/2" BALL VALVE MxM - RED HANDLE	1	79	310110-G	1/4" x 6" GALV. NIPPLE	1
31	300112-G	3/4" GALV. CROSS	1	82	310320-G	1/2" x 10" GALV. NIPPLE	1
32	311212-G	3/4" x 1/2" GALV. REDUCING ELBOW	1				

FIGURE 4: SINGLE INTERLOCK PREACTION ELECTRIC ACTUATION TRIM DIMENSIONS



Valve Size	Nominal Installation Dimensions Inches (mm)									
	A	B	C	D	E	F	G	H	I	J
4" (DN100)	7.37 (187)	4.83 (122)	8.63 (219)	15.05 (382)	16.92 (430)	12.73 (323)	7.06 (179)	13.13 (333)	10.95 (278)	8.95 (227)
6" (DN150)	7.37 (187)	4.83 (122)	9.34 (237)	15.81 (402)	16.97 (431)	14.05 (357)	8.50 (216)	14.47 (368)	11.09 (282)	9.09 (231)

MODEL RCW SINGLE INTERLOCK PREACTION WET PILOT ACTUATION

A wet pilot actuation trim is one optional trim arrangement for the Globe Model RCW valve. The detection system consists of standard automatic sprinklers or automatic Fixed Temperature Release Devices (typically 1/2" orifice) spaced throughout the protection area connected to the valve pressure chamber by means of 1/2" pilot line piping. Spacing of the pilot sprinklers is to be in accordance with the specific hazard, applicable standard or the Listing of the Fixed Temperature Release Device. Water pressure is maintained in the valve pressure chamber and up to the wet pilot sprinklers through a restricted connection from the main water supply which is taken upstream of the system main control valve. (The pressure chamber supply valve must remain in the open position at all times when the system is in service.)

When a pilot sprinkler operates, the water flow through the open pilot sprinkler is at a flow rate greater than that which can pass through the restriction in the pressure chamber supply line. This causes a drop in wa-

ter pressure in the pressure chamber. With this drop in pressure the clapper can no longer be held in the closed position by the lever/roller assembly. The valve operates (trips) and water enters into the system piping. Operation of the manual control station at the RCW valve also relieves the water pressure in the pressure chamber and operates the valve.

Wet pilot lines for 4" and 6" Model RCW single interlock preaction systems are to be installed within the limitations shown on Figure 6. The curves on each graph show the maximum length of 1/2" pilot piping that may be provided with the RCW valve, in relation to the height of the pilot line above the valve and the water supply static pressure at the valve. The limitations are shown for pressures up to 300 psi, the maximum water working pressure of the Model RCW valve. The length/height/pressure relationship of the pilot line, pilot sprinkler and water supply is one of hydraulics. If the size of the pilot line is increased please consult Globe Technical Services for allowable pilot line length and height.

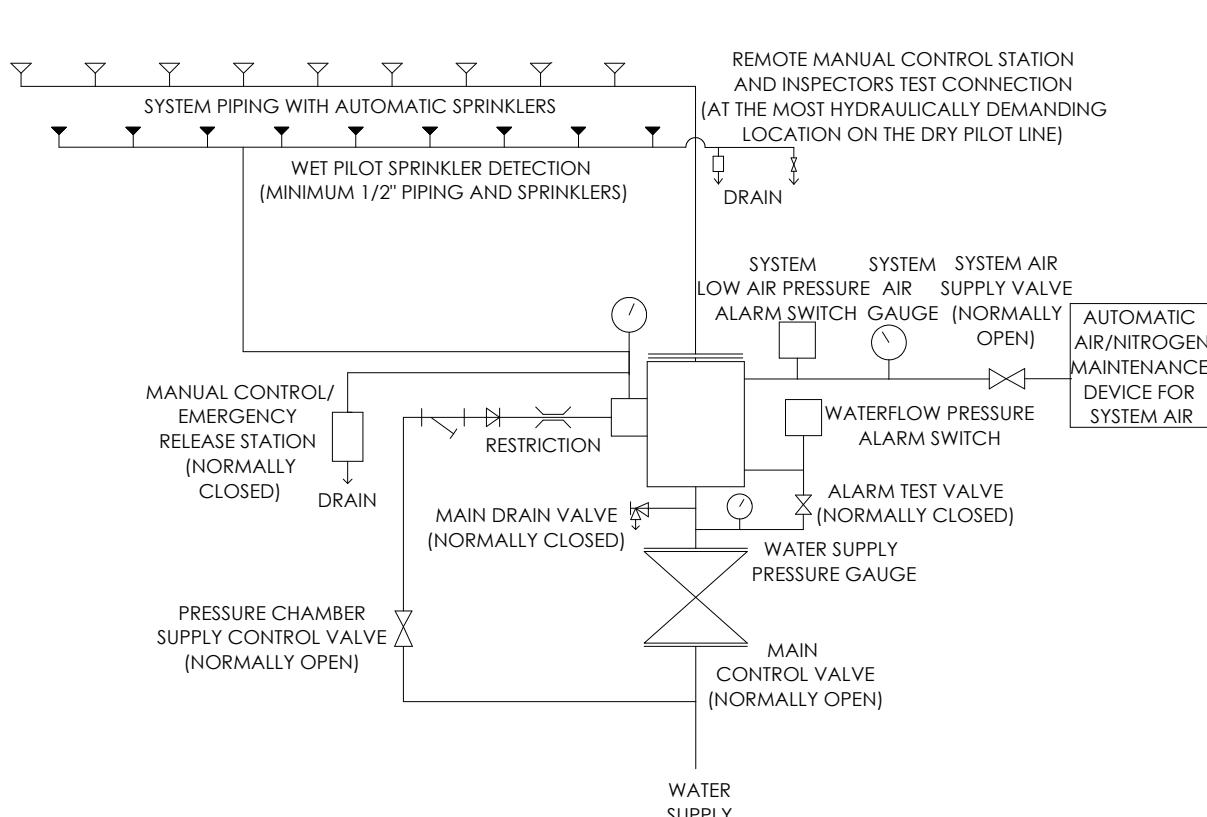


FIGURE 5: SINGLE INTERLOCK WET PILOT ACTUATION SCHEMATIC

FIGURE 6: SINGLE INTERLOCK PREACTION WET PILOT LINE HEIGHT LIMITATIONS

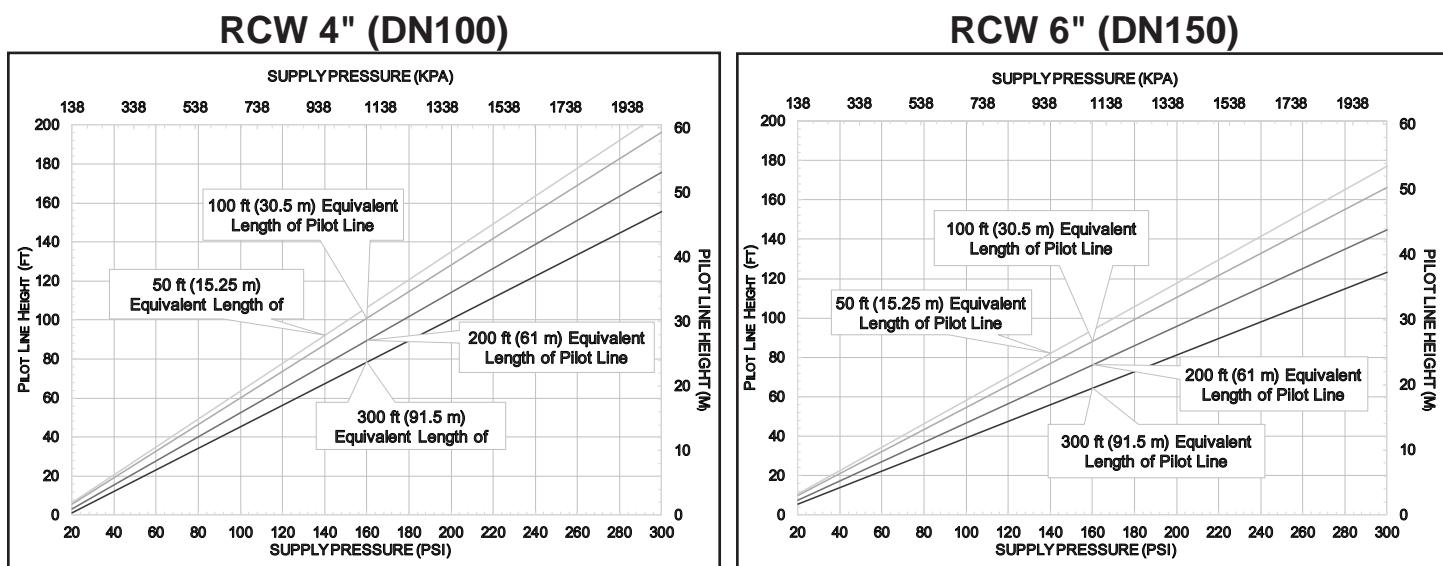
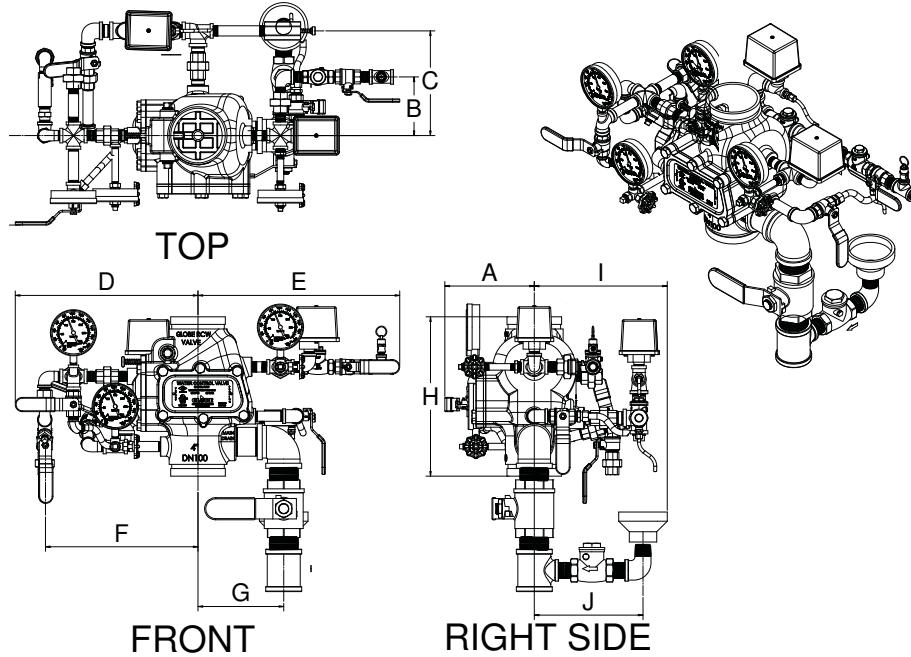
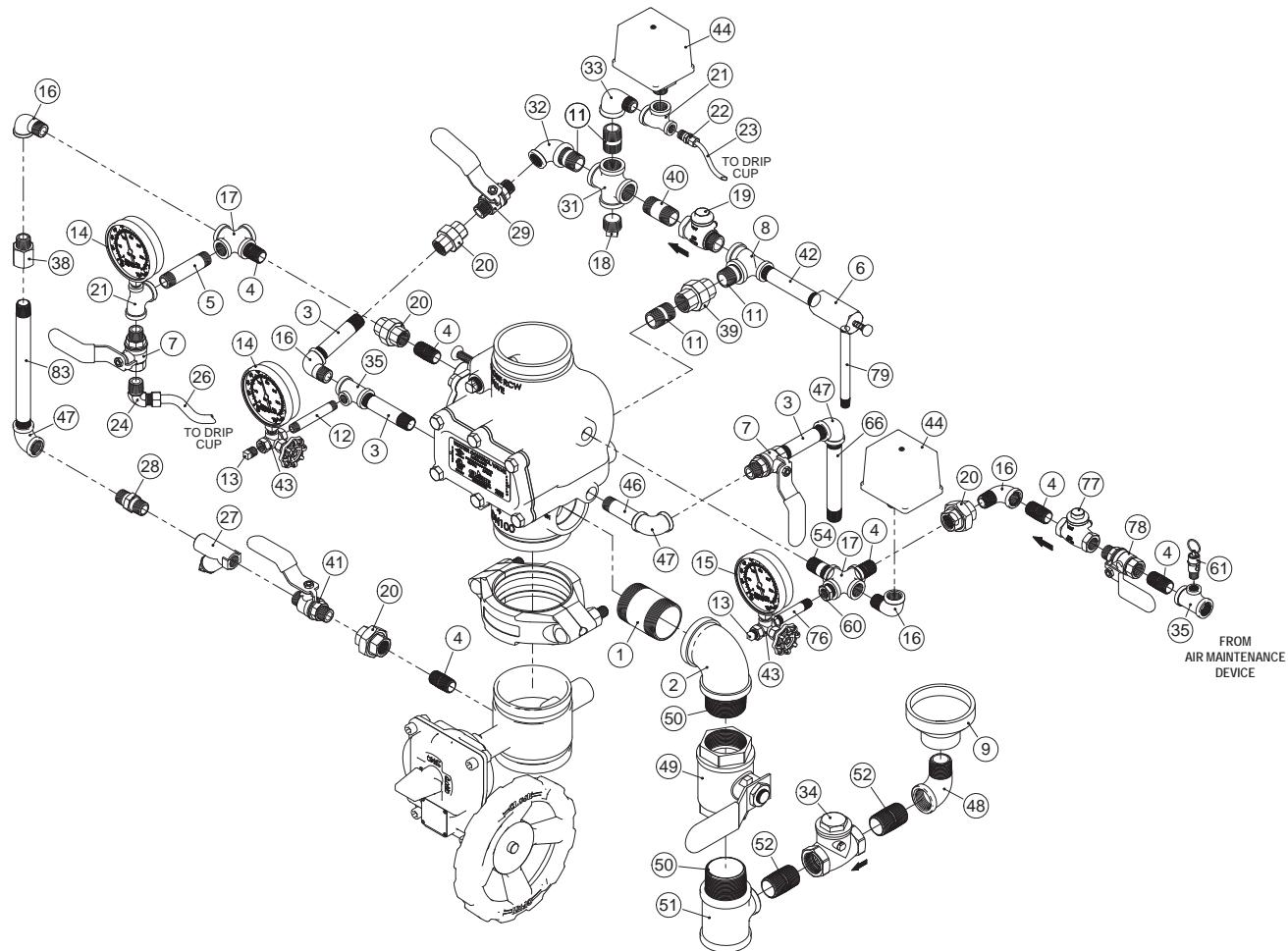


FIGURE 7: SINGLE INTERLOCK PREACTION WET PILOT ACTUATION TRIM DIMENSIONS



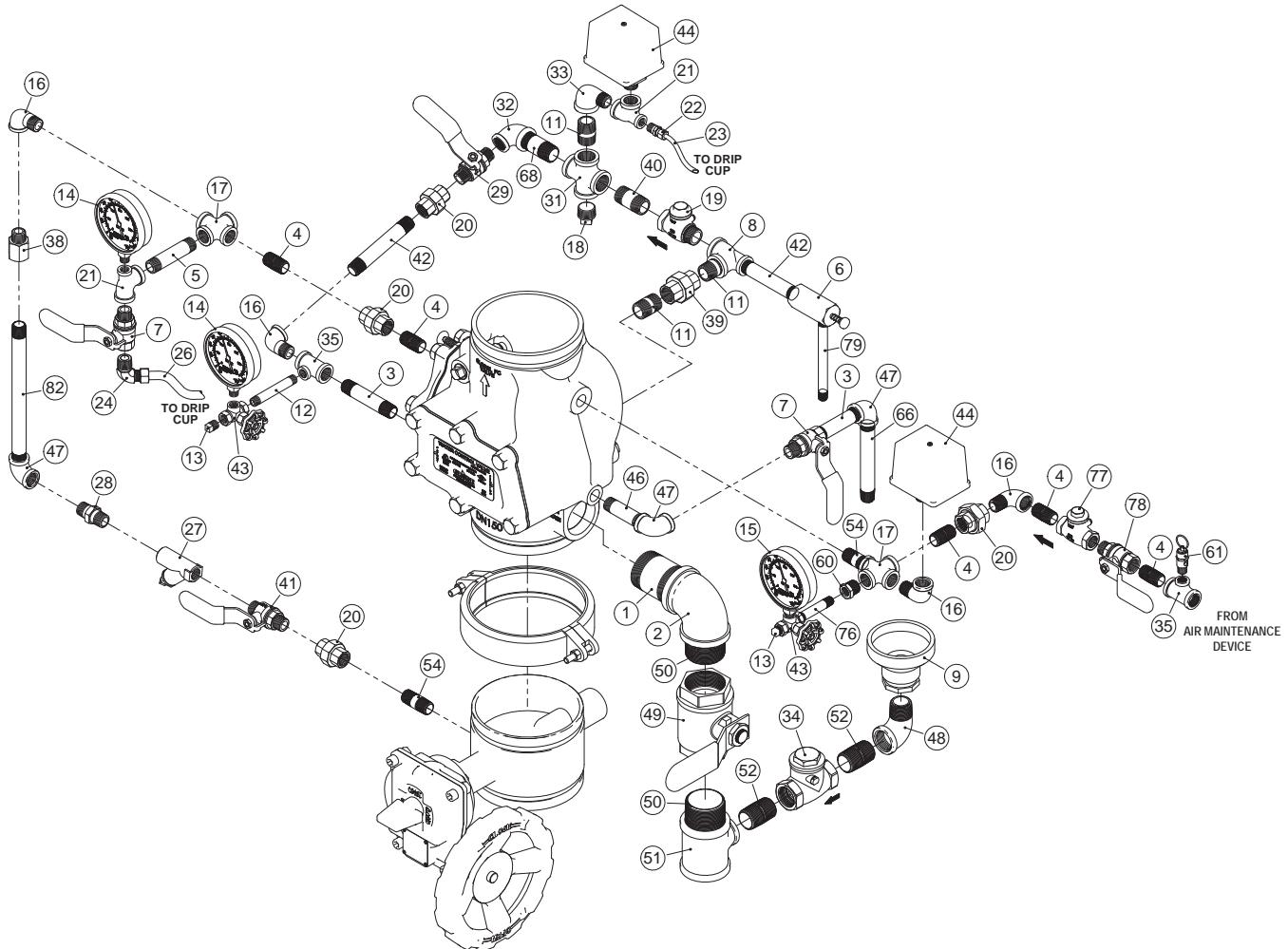
Valve Size	Nominal Installation Dimensions Inches (mm)									
	A	B	C	D	E	F	G	H	I	J
4" (DN100)	7.37 (187)	4.83 (126)	8.63 (219)	15.05 (382)	16.92 (430)	12.73 (323)	7.06 (179)	13.13 (333)	10.95 (278)	8.95 (227)
6" (DN150)	7.37 (187)	4.83 (122)	9.34 (237)	15.81 (402)	16.97 (431)	14.05 (357)	8.50 (216)	14.47 (368)	11.09 (282)	9.09 (231)

FIGURE 8: 4" RCW SINGLE INTERLOCK PREACTION WET PILOT ACTUATION TRIM ARRANGEMENT



ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	310802-G	2" x 3" GALV. NIPPLE	1	32	311212-G	3/4" x 1/2" GALV. REDUCING ELBOW	1
2	311208-G	2" 90° GALV. ELBOW	1	33	311224-G	3/4" x 1/2" GALV. STREET ELBOW	1
3	310306-G	1/2" x 4" GALV. NIPPLE	3	34	311801	1" CHECK VALVE (FxF)	1
4	310301-G	1/2" x 1 1/2" GALV. NIPPLE	6	35	311314-G	1/2" x 1/2" x 1/4" GALV. TEE	2
5	310305-G	1/2" x 3 1/2" GALV. NIPPLE	1	38	317395	1/2" RESTRICTOR	1
6	323300	VELOCITY CHECK VALVE	1	39	311404-G	3/4" GALV. UNION	1
7	311696-R	1/2" BALL VALVE MxF - RED HANDLE	2	40	310401-G	3/4" x 2" GALV. NIPPLE	1
8	311313-G	3/4" x 1/2" x 3/4" GALV. TEE	1	41	311794-GR	/2" BALL VALVE MxM - GREEN HANDLE	1
9	317398	DRIP CUP ASSEMBLY	1	42	310308-G	1/2" x 5" GALV. NIPPLE	1
11	310413-G	3/4" x 1 1/2" GALV. NIPPLE	4	43	311683	1/4" 3-WAY VALVE	2
12	310105-G	1/4" x 3 1/2" GALV. NIPPLE	1	44	1340104	PS-10-2 ALARM SWITCH	2
13	311001-G	1/4" GALV. PLUG	2	46	310304-G	1/2" x 3" GALV. NIPPLE	1
14	300119-D	3-1/2" WATER GAUGE (300PSI)	2	47	311203-G	1/2" GALV. ELBOW	3
15	300120-D	3-1/2" AIR GAUGE (250PSI)	1	48	311207-G	1" GALV. STREET ELBOW	1
16	311210-G	1/2" GALV. STREET ELBOW	4	49	311799-R	2" BALL VALVE (FxF) - RED HANDLE	1
17	300111-G	1/2" GALV. CROSS	2	50	310800-G	2" CLOSE GALV. NIPPLE	2
18	311004-G	3/4" GALV. PLUG	1	51	311338-G	2" x 2" x 1" GALV. TEE	1
19	311786	3/4" CHECK VALVE MxF	1	52	310501-G	1" x 2" GALV. NIPPLE	2
20	311403-G	1/2" GALV. UNION	4	54	310302-G	1/2" x 2" GALV. NIPPLE	1
21	311305-G	1/2" x 1/4" x 1/2" GALV. TEE	2	60	311100-G	1/2" x 1/4" GALV. REDUCING BUSHING	1
22	310161	1/4" TUBE CONNECTOR	1	61	317444	1/4" PRESSURE RELIEF VALVE (20PSI - FIXED)	1
23	M-320604	1/4" COPPER TUBE	-	66	310310-G	1/2" x 6" GALV. NIPPLE	1
24	310346	1/2" ELBOW TUBE CONNECTOR	1	76	310104-G	1/4" x 3" GALV. NIPPLE	1
26	M-320591	1/2" COPPER TUBE	-	77	311639	1/2" CHECK VALVE (FxF)	1
27	317397	1/2" Y-STRAINER	1	78	311696-GR	1/2" BALL VALVE MxF - GREEN HANDLE	1
28	317396	1/2" SPRING LOADED CHECK VALVE	1	79	310110-G	1/4" x 6" GALV. NIPPLE	1
29	311794-R	1/2" BALL VALVE MxM - RED HANDLE	1	83	310312-G	1/2" x 9" GALV. NIPPLE	1
31	300112-G	3/4" GALV. CROSS	1				

FIGURE 9: 6" RCW SINGLE INTERLOCK PREACTION WET PILOT ACTUATION TRIM ARRANGEMENT



ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	310802-G	2" x 3" GALV. NIPPLE	1	32	311212-G	3/4" x 1/2" GALV. REDUCING ELBOW	1
2	311208-G	2" 90° GALV. ELBOW	1	33	311224-G	3/4" x 1/2" GALV. STREET ELBOW	1
3	310306-G	1/2" x 4" GALV. NIPPLE	2	34	311801	1" CHECK VALVE (FxF)	1
4	310301-G	1/2" x 1 1/2" GALV. NIPPLE	5	35	311314-G	1/2" x 1/2" x 1/4" GALV. TEE	2
5	310305-G	1/2" x 3 1/2" GALV. NIPPLE	1	38	317395	1/2" RESTRICTOR	1
6	323300	VELOCITY CHECK VALVE	1	39	311404-G	3/4" GALV. UNION	1
7	311696-R	1/2" BALL VALVE MxF - RED HANDLE	2	40	310401-G	3/4" x 2" GALV. NIPPLE	1
8	311313-G	3/4" x 1/2" x 3/4" GALV. TEE	1	41	311794-GR	1/2" BALL VALVE MxM - GREEN HANDLE	1
9	317398	DRIP CUP ASSEMBLY	1	42	310308-G	1/2" x 5" GALV. NIPPLE	2
11	310413-G	3/4" x 1 1/2" GALV. NIPPLE	3	43	311683	1/4" 3-WAY VALVE	2
12	310105-G	1/4" x 3 1/2" GALV. NIPPLE	1	44	1340104	PS-10-2 ALARM SWITCH	2
13	311001-G	1/4" GALV. PLUG	2	46	310304-G	1/2" x 3" GALV. NIPPLE	1
14	300119-D	3-1/2" WATER GAUGE (300PSI)	2	47	311203-G	1/2" GALV. ELBOW	3
15	300120-D	3-1/2" AIR GAUGE (250PSI)	1	48	311207-G	1" GALV. STREET ELBOW	1
16	311210-G	1/2" GALV. STREET ELBOW	4	49	311799-R	2" BALL VALVE (FxF) - RED HANDLE	1
17	300111-G	1/2" GALV. CROSS	2	50	310800-G	2" CLOSE GALV. NIPPLE	2
18	311004-G	3/4" GALV. PLUG	1	51	311338-G	2" x 2" x 1" GALV. TEE	1
19	311786	3/4" CHECK VALVE MXF	1	52	310501-G	1" x 2" GALV. NIPPLE	2
20	311403-G	1/2" GALV. UNION	4	54	310302-G	1/2" x 2" GALV. NIPPLE	2
21	311305-G	1/2" x 1/4" x 1/2" GALV. TEE	2	60	311100-G	1/2" x 1/4" GALV. REDUCING BUSHING	1
22	310161	1/4" TUBE CONNECTOR	1	61	317444	"1/4" PRESSURE RELIEF VALVE (20PSI - FIXED)"	1
23	M-320604	1/4" COPPER TUBE	-	66	310310-G	1/2" x 6" GALV. NIPPLE	1
24	310346	1/2" ELBOW TUBE CONNECTOR	1	68	310402-G	3/4" x 2 1/2" GALV. NIPPLE	1
26	M-320591	1/2" COPPER TUBE	-	76	310104-G	1/4" x 3" GALV. NIPPLE	1
27	317397	1/2" Y-STRAINER	1	77	311639	1/2" CHECK VALVE (FxF)	1
28	317396	1/2" SPRING LOADED CHECK VALVE	1	78	311696-GR	1/2" BALL VALVE MxM - GREEN HANDLE	1
29	311794-R	1/2" BALL VALVE MxF - RED HANDLE	1	79	310110-G	1/4" x 6" GALV. NIPPLE	1
31	300112-G	3/4" GALV. CROSS	1	82	310320-G	1/2" x 10" GALV. NIPPLE	1

MODEL RCW SINGLE INTERLOCK PREACTION

A dry pilot actuation trim is one optional trim arrangement for the Model RCW valve for single interlock pre-action systems. This arrangement is typically utilized when the pilot line is subject to areas exposed to freezing or close to freezing temperatures. The detection system consists of automatic sprinklers or automatic Fixed Temperature Release Devices (typically 1/2" orifice) spaced throughout the protection area and connected to the valve trim by means of 1/2" pilot line piping. Spacing of the pilot sprinklers is to be in accordance with the specific hazard, applicable standard or the Listing of the Fixed Temperature Release Devices. Water pressure is maintained in the valve pressure chamber up to the dry pilot actuator through a restricted connection from the main water supply which is taken upstream of the system main control valve. (The pressure chamber supply valve must remain in the open position at all times when the system is in service.) The dry pilot actuator is normally held in the closed position by the pilot line air pressure supplied by the pilot line automatic air or nitrogen maintenance device. System supervisory air pressure is typically maintained through a separate air maintenance device at a pressure of approximately 10 psi.

When a pilot sprinkler operates, the air flow rate through the open pilot sprinkler is at a flow rate greater than that which can be supplied through the pilot line automatic air or nitrogen maintenance device. This causes a drop in the pilot line pressure, and consequently the pressure in the upper chamber of the dry pilot actuator. The pressure decreases until the upper chamber can no longer hold the diaphragm in the normally closed position. The dry pilot actuator actuates and allows water to flow from the pressure chamber of the RCW valve to the drain, at a flow rate greater than that which can be supplied through the restriction in the pressure chamber supply line. The valve operates (trips) and water flows into the system piping. The automatic actuation of the feature of the valve can be bypassed by manually rotating the handle on the "Manual Control/ Emergency Release" valve located on the Model RCW trim to activate the Model RCW valve.

Note: more information can be found on the dry pilot actuator in technical literature H-7.

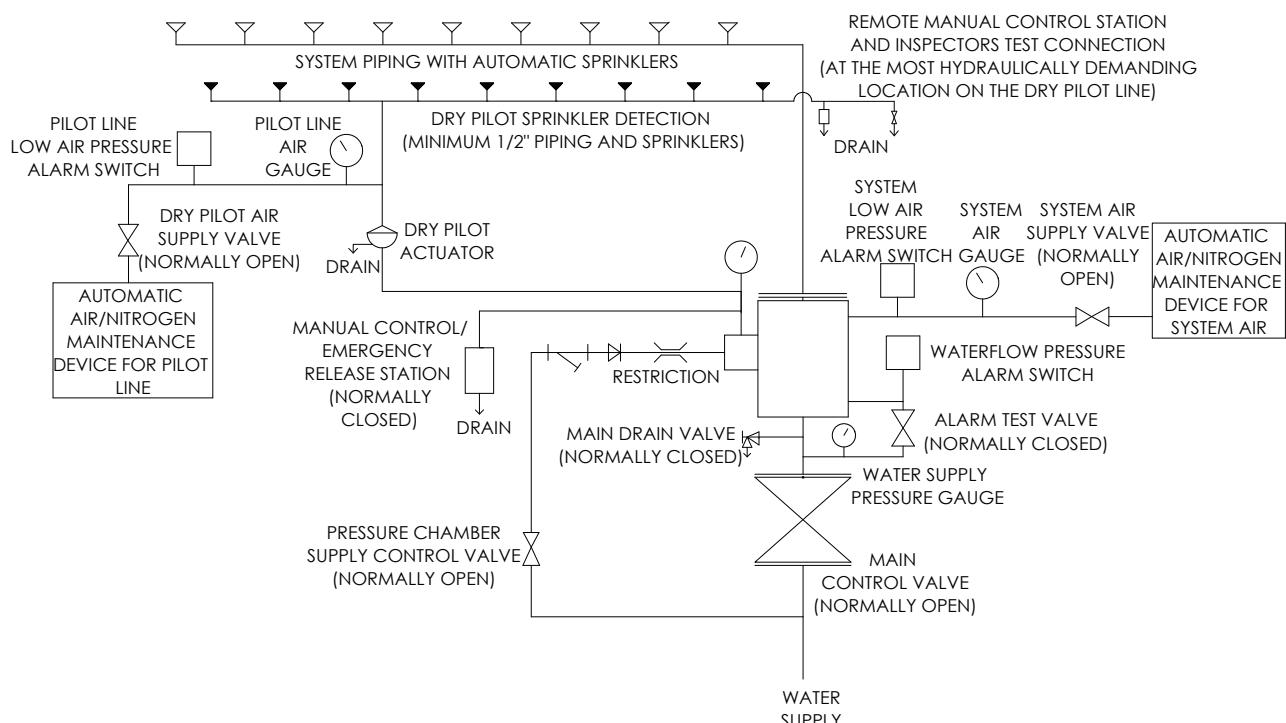


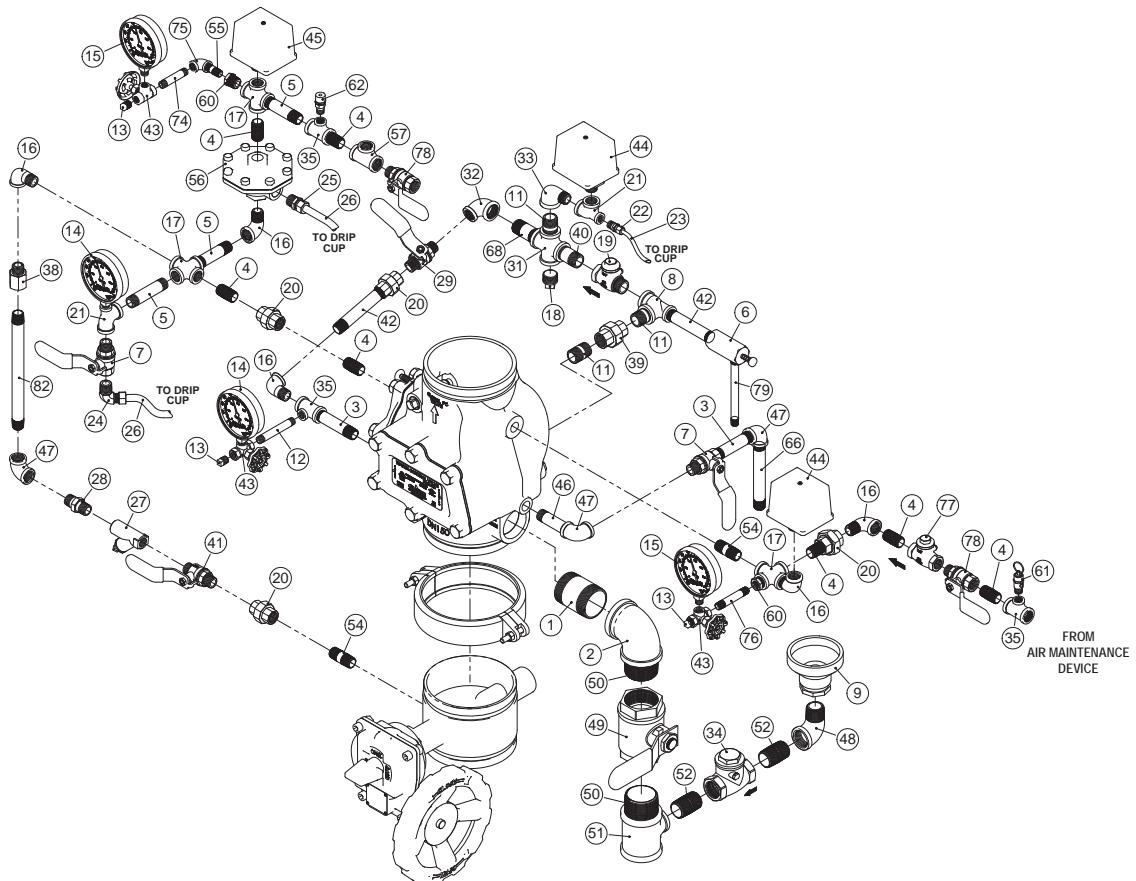
FIGURE 10: SINGLE INTERLOCK DRY PILOT ACTUATION SCHEMATIC

FIGURE 11: 4" RCW SINGLE INTERLOCK PREACTION DRY PILOT ACTUATION TRIM ARRANGEMENT



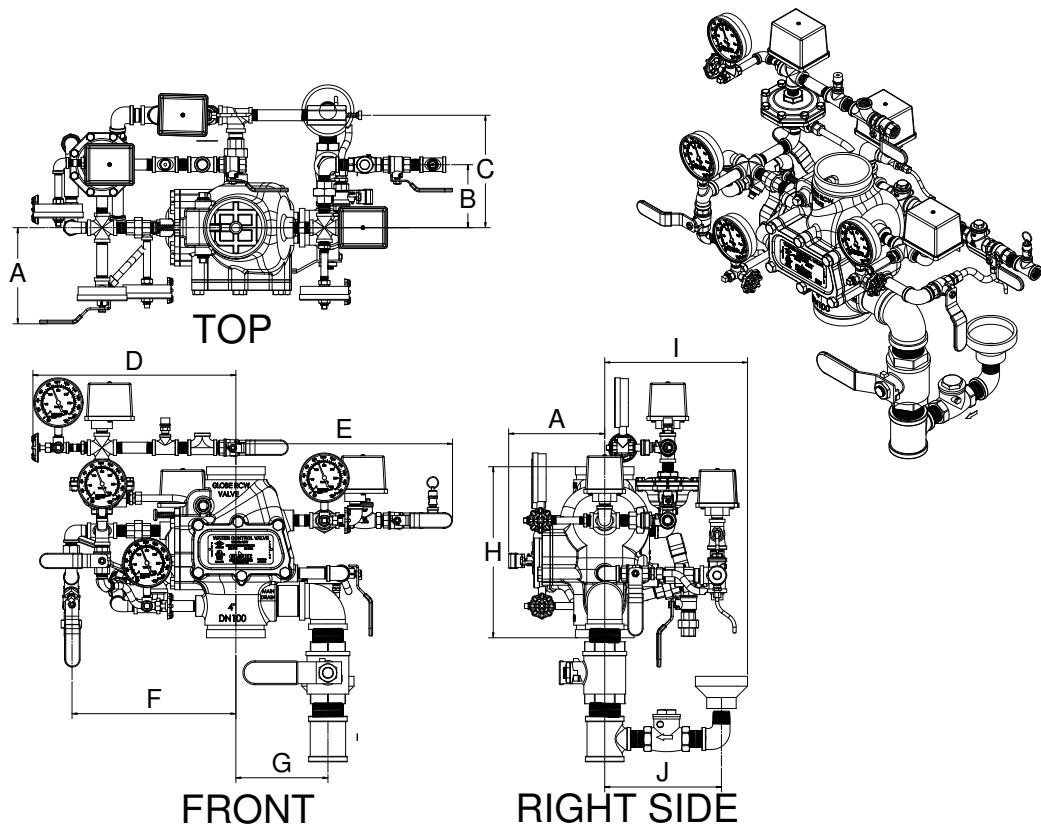
ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	310802-G	2" x 3" GALV. NIPPLE	1	35	311314-G	1/2" x 1/2" x 1/4" GALV. TEE	3
2	311208-G	2" 90° GALV. ELBOW	1	38	317395	1/2" RESTRICTOR	1
3	310306-G	1/2" x 4" GALV. NIPPLE	3	39	311404-G	3/4" GALV. UNION	1
4	310301-G	1/2" x 1 1/2" GALV. NIPPLE	8	40	310401-G	3/4" x 2" GALV. NIPPLE	1
5	310305-G	1/2" x 3 1/2" GALV. NIPPLE	3	41	311794-GR	1/2" BALL VALVE MxM - GREEN HANDLE	1
6	323300	VELOCITY CHECK VALVE	1	42	310308-G	1/2" x 5" GALV. NIPPLE	1
7	311696-R	1/2" BALL VALVE MxF - RED HANDLE	2	43	311683	1/4" 3-WAY VALVE	3
8	311313-G	3/4" x 1/2" x 3/4" GALV. TEE	1	44	1340104	PS-10-2 ALARM SWITCH	2
9	317398	DRIP CUP ASSEMBLY	1	45	1340404	PS-40-2 ALARM SWITCH	1
11	310413-G	3/4" x 1 1/2" GALV. NIPPLE	4	46	310304-G	1/2" x 3" GALV. NIPPLE	1
12	310105-G	1/4" x 3 1/2" GALV. NIPPLE	1	47	311203-G	1/2" GALV. ELBOW	3
13	311001-G	1/4" GALV. PLUG	3	48	311207-G	1" GALV. STREET ELBOW	1
14	300119-D	3-1/2" WATER GAUGE (300PSI)	2	49	311799-R	2" BALL VALVE (FxF) - RED HANDLE	1
15	300120-D	3-1/2" AIR GAUGE (250PSI)	2	50	310800-G	2" CLOSE GALV. NIPPLE	2
16	311210-G	1/2" GALV. STREET ELBOW	5	51	311338-G	2" x 2" x 1" GALV. TEE	1
17	300111-G	1/2" GALV. CROSS	3	52	310501-G	1" x 2" GALV. NIPPLE	2
18	311004-G	3/4" GALV. PLUG	1	54	310302-G	1/2" x 2" GALV. NIPPLE	1
19	311786	3/4" CHECK VALVE MxF	1	55	310101-G	1/4" x 1 1/2" GALV. NIPPLE	1
20	311403-G	1/2" GALV. UNION	4	56	317554	DRY PILOT ACTUATOR	1
21	311305-G	1/2" x 1/4" x 1/2" GALV. TEE	2	57	311303-G	1/2" GALV. TEE	1
22	310161	1/4" TUBE CONNECTOR	1	60	311100-G	1/2" x 1/4" GALV. REDUCING BUSHING	2
23	M-320604	1/4" COPPER TUBE	-	61	317444	1/4" PRESSURE RELIEF VALVE (20PSI - FIXED)	1
24	310346	1/2" ELBOW TUBE CONNECTOR	1	62	317445	1/4" PRESSURE RELIEF VALVE (ADJ. PSI) FACTORY SET @ 45PSI	1
25	310164	1/2" TUBE CONNECTOR	1	66	310310-G	1/2" x 6" GALV. NIPPLE	1
26	M-320591	1/2" COPPER TUBE	-	74	310103-G	1/4" x 2 1/2" GALV. NIPPLE	1
27	317397	1/2" Y-STRAINER	1	75	311201	1/4" ELBOW	1
28	317396	1/2" SPRING LOADED CHECK VALVE	1	76	310104-G	1/4" x 3" GALV. NIPPLE	1
29	311794-R	1/2" BALL VALVE MxM - RED HANDLE	1	77	311639	1/2" CHECK VALVE (FxF)	1
31	300112-G	3/4" GALV. CROSS	1	78	311696-GR	1/2" Ball Valve (MxF) - Green Handle	2
32	311212-G	3/4" x 1/2" GALV. REDUCING ELBOW	1	79	310110-G	1/4" x 6" GALV. NIPPLE	1
33	311224-G	3/4" x 1/2" GALV. STREET ELBOW	1	83	310312-G	1/2" x 9" GALV. NIPPLE	1
34	311801	1" CHECK VALVE (FxF)	1				

FIGURE 12: 6" RCW SINGLE INTERLOCK PREACTION DRY PILOT ACTUATION TRIM ARRANGEMENT



ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	310802-G	2" x 3" GALV. NIPPLE	1	35	311314-G	1/2" x 1/2" x 1/4" GALV. TEE	3
2	311208-G	2" 90° GALV. ELBOW	1	38	317395	1/2" RESTRICTOR	1
3	310306-G	1/2" x 4" GALV. NIPPLE	2	39	311404-G	3/4" GALV. UNION	1
4	310301-G	1/2" x 1 1/2" GALV. NIPPLE	7	40	310401-G	3/4" x 2" GALV. NIPPLE	1
5	310305-G	1/2" x 3 1/2" GALV. NIPPLE	3	41	311794-GR	1/2" BALL VALVE MxF - GREEN HANDLE	1
6	323300	VELOCITY CHECK VALVE	1	42	310308-G	1/2" x 5" GALV. NIPPLE	2
7	311696-R	1/2" BALL VALVE MxF - RED HANDLE	2	43	311683	1/4" 3-WAY VALVE	3
8	311313-G	3/4" x 1/2" x 3/4" GALV. TEE	1	44	1340104	PS-10-2 ALARM SWITCH	2
9	317398	DRIP CUP ASSEMBLY	1	45	1340404	PS-40-2 ALARM SWITCH	1
11	310413-G	3/4" x 1 1/2" GALV. NIPPLE	3	46	310304-G	1/2" x 3" GALV. NIPPLE	1
12	310105-G	1/4" x 3 1/2" GALV. NIPPLE	1	47	311203-G	1/2" GALV. ELBOW	3
13	311001-G	1/4" GALV. PLUG	3	48	311207-G	1" GALV. STREET ELBOW	1
14	300119-D	3-1/2" WATER GAUGE (300PSI)	2	49	311799-R	2" BALL VALVE (FxF) - RED HANDLE	1
15	300120-D	3-1/2" AIR GAUGE (250PSI)	2	50	310800-G	2" CLOSE GALV. NIPPLE	2
16	311210-G	1/2" GALV. STREET ELBOW	5	51	311338-G	2" x 2" x 1" GALV. TEE	1
17	300111-G	1/2" GALV. CROSS	3	52	310501-G	1" x 2" GALV. NIPPLE	2
18	311004-G	3/4" GALV. PLUG	1	54	310302-G	1/2" x 2" GALV. NIPPLE	2
19	311786	3/4" CHECK VALVE MxF	1	55	310101-G	1/4" x 1 1/2" GALV. NIPPLE	1
20	311403-G	1/2" GALV. UNION	4	56	317554	DRY PILOT ACTUATOR	1
21	311305-G	1/2" x 1/4" x 1/2" GALV. TEE	2	57	311303-G	1/2" GALV. TEE	1
22	310161	1/4" TUBE CONNECTOR	1	60	311100-G	1/2" x 1/4" GALV. REDUCING BUSHING	2
23	M-320604	1/4" COPPER TUBE	-	61	317444	1/4" PRESSURE RELIEF VALVE (20PSI - FIXED)	1
24	310346	1/2" ELBOW TUBE CONNECTOR	1	62	317445	1/4" PRESSURE RELIEF VALVE (ADJ. PSI) FACTORY SET @ 45PSI	1
25	310164	1/2" TUBE CONNECTOR	1	66	310310-G	1/2" x 6" GALV. NIPPLE	1
26	M-320591	1/2" COPPER TUBE	-	68	310402-G	3/4" x 2 1/2" GALV. NIPPLE	1
27	317397	1/2" Y-STRAINER	1	74	310103-G	1/4" x 2 1/2" GALV. NIPPLE	1
28	317396	1/2" SPRING LOADED CHECK VALVE	1	75	311201	1/4" ELBOW	1
29	311794-R	1/2" BALL VALVE MxF - RED HANDLE	1	76	310104-G	1/4" x 3" GALV. NIPPLE	1
31	300112-G	3/4" GALV. CROSS	1	77	311639	1/2" CHECK VALVE (FxF)	1
32	311212-G	3/4" x 1/2" GALV. REDUCING ELBOW	1	78	311696-GR	1/2" BALL VALVE MxF - GREEN HANDLE	1
33	311224-G	3/4" x 1/2" GALV. STREET ELBOW	1	79	310110-G	1/4" x 6" GALV. NIPPLE	1
34	311801	1" CHECK VALVE (FxF)	1	82	310320-G	1/2" x 10" GALV. NIPPLE	1

FIGURE 13: SINGLE INTERLOCK DRY PILOT TRIM DIMENSIONS



Valve Size	Nominal Installation Dimensions Inches (mm)									
	A	B	C	D	E	F	G	H	I	J
4" (DN100)	7.37 (187)	4.83 (126)	8.63 (219)	15.65 (398)	16.92 (430)	12.73 (323)	7.06 (179)	13.13 (333)	10.95 (278)	8.95 (227)
6" (DN150)	7.37 (187)	4.83 (122)	9.34 (237)	16.33 (415)	16.97 (431)	14.05 (357)	8.50 (216)	14.47 (368)	11.09 (282)	9.09 (231)

INSTALLATION AND MAINTENANCE

INSTALLATION

Proper operation of the RCW Valve (i.e., opening of the RCW Valve as during a fire condition) is highly dependent on the correct installation of the trim. It is necessary to install the trim components as described in the figures above for the valve to function properly. Failure to do so may prevent the valve from functioning and could void Listings, Approvals, and/or the manufacturer's warranty. All tubing directed to the "drip cup" must have smooth bends. Abrupt changes in direction or kinks in the tubing could result in a restriction of flow and an adverse effect on the functionality of the valve.

The Model RCW Valve must be installed in an accessible and visible location, which is maintained at or above a minimum temperature of 40°F (4°C). The RCW Valve must be installed in the vertical orientation.

All valves must be installed in accordance with the appropriate installation standard (i.e. NFPA 13, NFPA 15 or other). All electrical connections must be made per the applicable installation standard and/or the National Electric Code (i.e. NFPA 70, NFPA 72 or other).

Proper hydrostatic test procedure must be followed per NFPA 13. The velocity check valve must be replaced with a plug temporarily, the pressure chamber must be vented during the hydrostatic test procedure by opening the manual release valve and the clapper must be latched in the open position.

SINGLE INTERLOCK PREACTION VALVE SETTING PROCEDURE

The following steps are to be followed for initial setting of the Model RCW valve for Single Interlock Pre-action Systems, after a trip test of the fire protection system or, after any system operation. Refer to Figure 1, 5, or 10, as appropriate.

- STEP 1.** Close the main control valve.
- STEP 2.** Close the pressure chamber supply control valve and the system air supply valve.
- STEP 2b.** Dry pilot actuation - close dry pilot line air supply valve.
- STEP 3.** Open the main drain valve, lower body (aux) drain valve, and all low point drain valves and auxiliary drain valves on the system. Open the manual emergency release control valve. Depress the plunger of the velocity check valve to verify that it is not under pressure and that the system piping is completely drained. After system is completely drained, close all low point and auxiliary drain valves that were open. The manual emergency release control valve and main drain valve should remain open until directed in the following steps.
- STEP 4.** Depress the reset plunger located at the top of the pressure chamber to reset the clapper of the RCW valve (the sound of the clapper falling into position should be heard).
- STEP 5a. Electric Actuation** – The detection system is to be cleared and reset in accordance with the detection system and/or control panel manufacturer's instructions. Once reset, verify the solenoid valve is closed (de-energized). When

closed, the solenoid valve should have no magnetic charge on the nut on the top of the coil. Test the nut to make sure it has no magnetic charge by contacting the nut with a conductive item such as a screwdriver. If still magnetized, the detection system/panel is not properly set for service. An alternate method of verifying if the solenoid valve is closed is to open the manual emergency release control valve and then the pressure chamber supply control valve slowly. Proceed to close the manual emergency release control valve and verify water ceases to discharge from the drain tubing to the drip cup. If no water is seen discharging from the drain tubing continue to step 6.

STEP 5b. Wet Pilot Actuation - open the remote wet pilot line test valve. Replace any operated wet pilot sprinklers that operated with the same type, i.e. orientation, orifice, temperature, and thermal sensitivity. Open the manual emergency release control valve and then the pressure chamber supply control valve. Verify water is flowing out of the manual emergency release control valve to the drip cup and proceed to slowly close the manual emergency release control valve. Allow water to fill the wet pilot piping. Slowly close the remote test valve as soon as water begins to discharge to allow pressure to build up in the pilot line and pressure chamber, continue to step 6.

STEP 5c. Dry Pilot Actuation – open the remote dry pilot line test valve. Replace any operated dry pilot sprinklers that operated with the same type, i.e. orientation, orifice, temperature, and thermal sensitivity. Close the remote test valve and open the dry pilot line air supply valve to re-establish normal dry pilot line pressure. Open the manual emergency release control valve and then the pressure chamber supply control valve. Slowly close the manual emergency release control valve and allow pressure to build up in the pressure chamber and up to the dry pilot actuator, and continue to step 6.

STEP 6. Observe all drain tubing at the drip cup. If any leakage is observed, the source of the leakage must be identified and corrected.

STEP 7. Partially open the main control valve. Slowly close the main drain valve when water discharges from the drain connection. Observe the supply pressure gauge and the pressure chamber gauge, they should indicate the same pressure reading. Depress the plunger on the velocity check valve to check for leaks. If leakage is apparent, the cause of the leakage must be identified and corrected. If there are no leaks, open the system control valve fully.

STEP 8. Open the system air supply control valve and bring the system up to normal pressure (nominally 10 psi). Reset the releasing control panel to clear any supervisory conditions connected to the system control valve. The panel reset will also clear the low air supervisory condition. Once the panel is reset and clear, the system is set for service.

TESTING

Reference NFPA 25, Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems.

Before proceeding with any tests involving water flow, the following precautions need to be taken:

- STEP 1.** Check the location where the test connection discharges to make sure that all is clear and that there is no possibility of the water flow causing damage or injury.
- STEP 2.** Check the end of the test connection to make sure that it is unobstructed. To achieve a satisfactory test, there must be an unrestricted flow of water when the test valve is wide open.
- STEP 3.** Check for alarm connections to a central station or fire department. If such connections are found, give proper notice to the signal receiving station before proceeding with the test.

Note: A main drain test may also operate local fire alarms unless they are temporarily disabled.

SINGLE INTERLOCK PREACTION TRIP TEST PROCEDURE

Proper operation of the RCW Valve (i.e., opening of the RCW Valve as during a fire condition) must be verified, at a frequency described by the applicable Inspection Testing and Maintenance Standard (i.e. NFPA 25) or by the Local AHJ. Globe Sprinkler Corporation recommends performing a trip test annually. The steps to perform a trip test are as follows:

- STEP 1.** If a partial flow trip test is required, perform the following additional steps. If a normal flow test is being performed continue to Step 2:

1. Close the main control valve.
2. Open the main drain valve.
3. Open the main control valve one turn beyond the position at which water just begins to flow from the main drain valve.
4. Close the main drain valve.

Note: Be sure to close the main control valve quickly after the trip of the valve has been verified.

- STEP 2a. Electric Actuation** - Activate the releasing circuit of the Single Interlock Preactivation releasing panel in accordance with the manufacturer's instructions to energize the solenoid valve.

- STEP 2b. Wet Pilot Actuation** - Open the test valve at the end of the wet pilot line.

- STEP 2c. Dry Pilot Actuation** - Open the test valve at the end of the dry pilot line.

- STEP 3.** Verify that the RCW Valve has tripped, as indicated by the flow of water into the system and activation of the water flow alarm.

- STEP 4.** Close the system's Main Control Valve.

- STEP 5.** Close the Diaphragm Chamber Supply Control Valve.

- STEP 6.** Reset the RCW Single Interlock Preactivation Valve in accordance with the Single Interlock Preactivation Valve Setting Procedure.

SINGLE INTERLOCK PREACTION- WATERFLOW ALARM TEST PROCEDURE

Testing of the system water flow alarms must be performed at the frequency described by the applicable inspection testing and maintenance standard (i.e. NFPA 25) or as described by the local AHJ. To test the water flow alarm, open the alarm test valve, which will allow a flow of water to the pressure alarm switch and/or water motor alarm. Upon satisfactory completion of the test, close the alarm test valve.

MAINTENANCE

Note:

- All valves should be carefully inspected, tested, and maintained in accordance with NFPA 25 or other applicable Standard.
- It is important to ensure a clean water supply free of debris and solid particles such as sand, gravel, or mud.
- If, during an inspection of a water control valve, sediment or free particles of matter are noted, a further examination of internal valve parts is necessary.
- All deposits should be removed from all operating parts and ports. Vent holes through intermediate chamber should be thoroughly cleaned and flushed with clean water.
- Where difficulty in performance is experienced, the manufacturer or its authorized representative shall be contacted before any field adjustment is to be made.

Clapper Facing. The rubber clapper facing should be checked for wear or damage to determine that it is free of dirt and other foreign substances. If found to be worn or damaged (e.g., foreign matter embedded in the surface), the facing should be replaced. If it is dirty, it should be cleaned. Compounds which could damage the rubber facing must never be used.

Seat Ring. The seat ring should be checked for nicks and for stones, dirt or other foreign matter lodged in the grooves or holes. It should be cleaned thoroughly. If the seat ring is found to be damaged, valve should be replaced.

Alarm Line Check Valve. The $\frac{3}{4}$ " check valve connected to the intermediate chamber should be checked for clapper and seat condition.

RCW Valve. Main Drain Valve and all controlling valves which are normally closed when the deluge valve is in the set position should be checked to be sure that they are fully closed and not leaking.

ORDERING INFORMATION

The RCW Valve with Single Interlock Preactivation; Electric, Wet Pilot, or Dry Pilot Actuation trim can be ordered pre-trimmed or non-assembled as separate items. The standard offering comes with galvanized nipples and fittings (Standard galvanized trim is not domestic). For non-assembled the following items must be ordered separately:

- RCW Water Control Valve
- Single Interlock Preactivation Electric Actuation Trim or; Single Interlock Preactivation Wet Pilot Trim or; Single Interlock Preactivation Dry Pilot Trim
- Automatic Air Supply (Air Maintenance Device)
- Accessories (as needed)

PRE-TRIMMED WITH MODEL GLR300G CONTROL VALVE

Pre-trimmed electric actuation standard solenoid valve is the Skinner 24 VDC; 175 psi rated solenoid. If different solenoid valve is desired, inform Customer Service at time of order placement.

PRE-TRIMMED RCW SINGLE INTERLOCK ELECTRIC ACTUATION W/ MODEL GLR300G CONTROL VALVE

Specify: RCW Single Interlock Electric Pretrimmed w/ BFV(specify valve size), PN :

4 Inch GxG	317440-B
6 Inch GxG	317489-B
DN 150 (165,1 mm) GxG	317489-D-B

PRE-TRIMMED RCW SINGLE INTERLOCK WET PILOT ACTUATION W/ MODEL GLR300G CONTROL VALVE

Specify: RCW Single Interlock Wet Pilot Pretrimmed w/ BFV(specify valve size), PN:

4 Inch GxG	317442-B
6 Inch GxG	317488-B
DN 150 (165,1 mm) GxG	317488-D-B

PRE-TRIMMED RCW SINGLE INTERLOCK DRY PILOT ACTUATION W/ MODEL GLR300G CONTROL VALVE

Specify: RCW Single Interlock Dry Pilot Pretrimmed w/ BFV(specify valve size), PN:

4 Inch GxG	317439-B
6 Inch GxG	317490-B
DN 150 (165,1 mm) GxG	317490-D-B

PRE-TRIMMED WITHOUT GROOVED BFV CONTROL VALVE

PRE-TRIMMED RCW SINGLE INTERLOCK ELECTRIC ACTUATION

Specify: RCW Single Interlock Electric Pretrimmed (specify valve size), PN:

4 Inch GxG	317440
6 Inch GxG	317489
DN 150 (165,1 mm) GxG	317489D

PRE-TRIMMED RCW SINGLE INTERLOCK WET PILOT ACTUATION

Specify: RCW Single Interlock Wet Pilot Pretrimmed (specify valve size), PN:

4 Inch GxG	317442
6 Inch GxG	317488
DN 150 (165,1 mm) GxG	317488-D

PRE-TRIMMED RCW SINGLE INTERLOCK DRY PILOT ACTUATION

Specify: RCW Single Interlock Dry Pilot Pretrimmed (specify valve size), PN:

4 Inch GxG	317439
6 Inch GxG	317490
DN 150 (165,1 mm) GxG	317490-D

NON-ASSEMBLED

- Valve body ordered separately
- Trim Kit includes extra pieces to accommodate different size valves
- Solenoid Valve Included (Standard offering 175 psi rated)

RCW Water Control Valve

Specify: RCW Valve Only (specify valve size)

4 inch RCW GxG..... 317400

6 inch RCW GxG..... 317550

DN 150 (165,1 mm) RCW GXG 317550-D

RCW SINGLE INTERLOCK ELECTRIC TRIM KIT 4 INCH OR 6 INCH OR DN 150

Specify: RCW Single Interlock Electric Trim Kit, PN:

Single Interlock Electric Trim Kit..... 317363

SINGLE INTERLOCK PREACTION WET PILOT ACTUATION TRIM KIT 4 INCH OR 6 INCH OR DN 150

Specify: RCW Single Interlock Wet Pilot Trim Kit, PN:

Single Interlock Wet Pilot Trim Kit..... 317360

SINGLE INTERLOCK PREACTION DRY PILOT ACTUATION TRIM KIT 4 INCH OR 6 INCH OR DN 150

Specify: RCW Single Interlock Dry Pilot Trim Kit, PN:

Single Interlock Dry Pilot Trim Kit..... 317361

Solenoid Valve

A Solenoid Valve compatible with the anticipated maximum water supply pressure and release panel, when ordering an electric actuation trim. Refer to Technical Data Sheet GFV565 for ordering information.

Specify: 24 VDC, (175 psi, 250 psi or 300 psi) Solenoid Valve:

ASCO 175 psi (12 Bar) UL/FM G8219G207

ASCO 300 psi (20.7 Bar) UL/FM GHV432449001

*Skinner 175 psi (12 Bar) UL/FM..... G5118026

Skinner 250 psi (17.2 Bar) UL/FM.... G5118024

*Standard

Model H-1, H-2 or H-3 Air Maintenance Device

Specify: Model (Specify Model) Air Maintenance Device (see Part Number below)

H-1..... 320585

H-2..... 320595

H-3..... 320600

See Technical Literature G-1 and G-2 for more information on Air Maintenance Devices

Note:

300 psi (20.6 Bars) Pressure Gauges Standard (600 psi (41.2 Bars) Ordered Separately

PN..... 300121-D

See trim drawings for trim replacement part numbers

See Technical Data Sheet GFV200 for RCW Valve replacement part numbers

GLOBE® PRODUCT WARRANTY

Globe agrees to repair or replace any of its manufactured products found to be defective in material or workmanship for a period of one year from date of shipment.

For specific details of our warranty please refer to Price List Terms and Conditions of Sale (Our Price List).

4077 Airpark Dr.
Standish, MI 48658
Ph. 989-846-4583

Technical Support
1-800-248-0278
techservice@globesprinkler.com

www.globesprinkler.com



DISPOSITIVO DI MANTENIMENTO PRESSIONE ARIA MODELLO H-1

DESCRIZIONE GENERALE

Il mantenitore di pressione aria Globe Modello H-1 è un dispositivo automatico, regolabile sul campo, della famiglia dei riduttori di pressione. È pensato per controllare la pressione dell'aria negli impianti sprinkler a secco, nei sistemi di preazione, o nella linea pilota di impianti a secco di una valvola a diluvio o valvola a preazione per sprinkler pilota a secco. L'H-1 è utilizzato nei casi in cui si ha una fonte di aria (o azoto) compressa ad una pressione superiore rispetto a quella desiderata per l'impianto. Per fonti di aria in pressione si intendono impianti dotati di compressori automatici, o impianti ad azoto dotati di regolatori di pressione con cilindro monostadio.

La valvola Globe da 1/2" viene aperta per permettere un veloce ingresso nei tubi dell'impianto a secco, operazione anche chiamata "Fast Fill". Rimarrà chiusa una volta raggiunta la pressione desiderata.

Quando la pressione si riduce da un lato della valvola di controllo da 1/4", l'orifizio di regolazione e misurazione si apre e compensa le piccole perdite di aria che periodicamente avvengono nel sistema a causa della variazione di temperatura o di altre variabili dell'impianto. L'orifizio di regolazione e misurazione limita il volume di aria introdotta per assicurare che la quantità di aria reintrodotta sia minore di quella che potrebbe fuoriuscire da uno sprinkler attivato.

DATI TECNICI

Approvato secondo le norme:

cULus

FM

NYC-DOB MEA 335-91-M

Pressione Massima

175 psi (12.3 kg/cm²)

Intervallo di pressione in uscita

15-50 psi (1.05-3.51 kg/cm²)

Differenziale di pressione richiesto

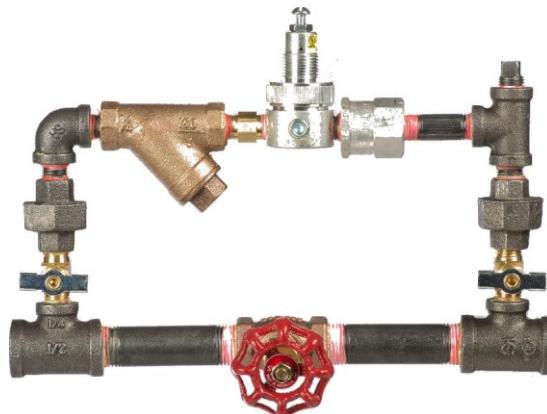
- 2 1/2 psi (0.176 kg/cm²)

Connessioni terminali

- 1/2" Female NPT

Dimensioni fisiche

9 11/16" X 7 3/4" (246 mm X 197 mm)



MODELLO H-1

DISPOSITIVO MANTENIMENTO ARIA

INSTALLAZIONE

Il dispositivo di mantenimento pressione automatico Globe Modello H-1 deve essere installato secondo le seguenti istruzioni.

NOTA:

La presenza di umidità durante il montaggio può ridurre le prestazioni. Assicurarsi che il mantenitore di pressione Modello H-1 sia installato in maniera da permettere l'accumulo di acqua nel dispositivo. Potrebbe rendersi necessario provvedere alla riduzione dell'umidità dell'aria in ingresso.

FASE 1. Predisporre le connessioni con tubi da almeno 1/2" (DN15) tra l'ingresso aria e il Dispositivo Modello H-1 e tra il Dispositivo Modello H-1 ed il sistema da pressurizzare.

FASE 2. Installare una valvola di controllo da 1/2"(DN15), non a molla, rivestita in gomma, di tipo swing tra il Dispositivo Modello H-1 ed il sistema da pressurizzare. Una valvola di controllo di questo tipo è necessaria nel trim di ingresso aria delle valvole GLOBE per tubi a secco, valvole di preazione, e trim pilota a secco.

PROCEDURA DI REGOLAZIONE

Il dispositivo di mantenimento pressione aria automatico GLOBE Modello H-1 deve essere regolato secondo le seguenti istruzioni:

- FASE 1.** Determinare la pressione che incontra i requisiti minimi dell'impianto in base all'appropriata scheda tecnica.
- FASE 2.** Chiudere la valvola di by-pass del modello H-1 e la valvola di controllo ingresso aria Modello H-1.
- FASE 3.** Aprire la valvola di controllo sul trim ingresso aria del sistema per pressurizzare, poi ridurre la pressione aria dell'impianto a 0 psi.
- FASE 4.** Chiudere la valvola di controllo nel trim di ingresso aria del sistema per mettere in pressione.
- FASE 5.** Rimuovere il manometro impianto dalla sua sede e temporaneamente installarlo nella porta per manometro di prova da 1/4".

ATTENZIONE:

Prima di rimuovere il tappo, accertarsi che la tubazione a cui è connessa la porta per il manometro di prova del Modello H-1 sia a 0 psi. In caso contrario si corre il rischio di infortunio e danni alla proprietà.

- FASE 6.** Aprire la valvola di controllo ingresso aria sul dispositivo H-1.
- FASE 7.** Osservando il manometro nella sua nuova posizione, regolare la pressione di uscita del regolatore di pressione. Allentare il dado sotto la vite di regolazione della pressione. Ruotare la vite in senso orario, guardandola dall'alto del regolatore di pressione per aumentare la pressione, o in senso opposto per ridurla.

NOTA:

Quando si va a ridurre la pressione, questa deve essere rilasciata a valle del regolatore di pressione aprendo temporaneamente la valvola di controllo nel trim di ingresso aria dell'impianto di pressurizzazione, controllando che l'impianto si vada a depresso.

- FASE 8.** Dopo che il regolatore di pressione è stato impostato, stringere il bullone sotto la vite di regolazione per bloccarla in posizione.
- FASE 9.** Chiudere la valvola di controllo ingresso aria nel dispositivo Modello H-1.

ATTENZIONE:

Prima di rimuovere il tappo, accertarsi che la tubazione a cui è connessa la porta per il manometro di prova del Modello H-1 sia a 0 psi. In caso contrario si corre il rischio di infortunio e danni alla proprietà.

- FASE 10.** Rimettere il manometro aria nella sua posizione originaria. Installare nuovamente il tappo da 1/4" nella porta per manometro di prova del Modello H-1. Applicare solo ai tappi e con parsimonia il sigillatore per filettature.
- FASE 11.** Aprire la valvola di controllo nel trim d'ingresso aria dell'impianto da pressurizzare.
- FASE 12.** Aprire la valvola di controllo ingresso aria del dispositivo Modello H-1.
- FASE 13.** Aprire la valvola by-pass del dispositivo Modello H-1.
- FASE 14.** Chiudere la valvola by-pass dopo che il sistema sarà a circa 5 psi (0,4 bar) sotto al minimo richiesto per la pressione impianto di cui allo Step 1.
- FASE 15.** Dopo che la pressione impianto si sarà stabilizzata, annotare il valore della pressione aria e compararlo con quello richiesto. Se necessario, reimpostare la pressione.

NOTA:

Se l'impianto è in sovrappressione durante il riempimento manuale, aprire una connessione all'impianto adatta e riducete manualmente la pressione fino al valore richiesto. Il dispositivo di mantenimento pressione automatico Modello

H-1 manterrà automaticamente la pressione pre-impostata. La valvola di controllo evita che il regolatore di pressione faccia lentamente ridurre la pressione di sistema.

- FASE 16.** Al fine di minimizzare il tempo per l'attivazione impianto in caso di attivazione di uno sprinkler, impostate la pressione di sistema al più basso valore richiesto.

CURA E MANUTENZIONE

Il dispositivo automatico di mantenimento pressione GLOBE Modello H-1 deve essere oggetto di manutenzione secondo le seguenti indicazioni, oltre che secondo le norme NFPA. Ogni eventuale danneggiamento deve essere immediatamente riparato.

NOTA:

Prima di chiudere una valvola principale di impianto antincendio per lavori di manutenzione sull'impianto che si sta controllando, bisogna ottenere dalle giuste autorità un'autorizzazione per spegnimento impianto, oltre che avvisare il personale che potrebbe essere interessato da detto intervento.

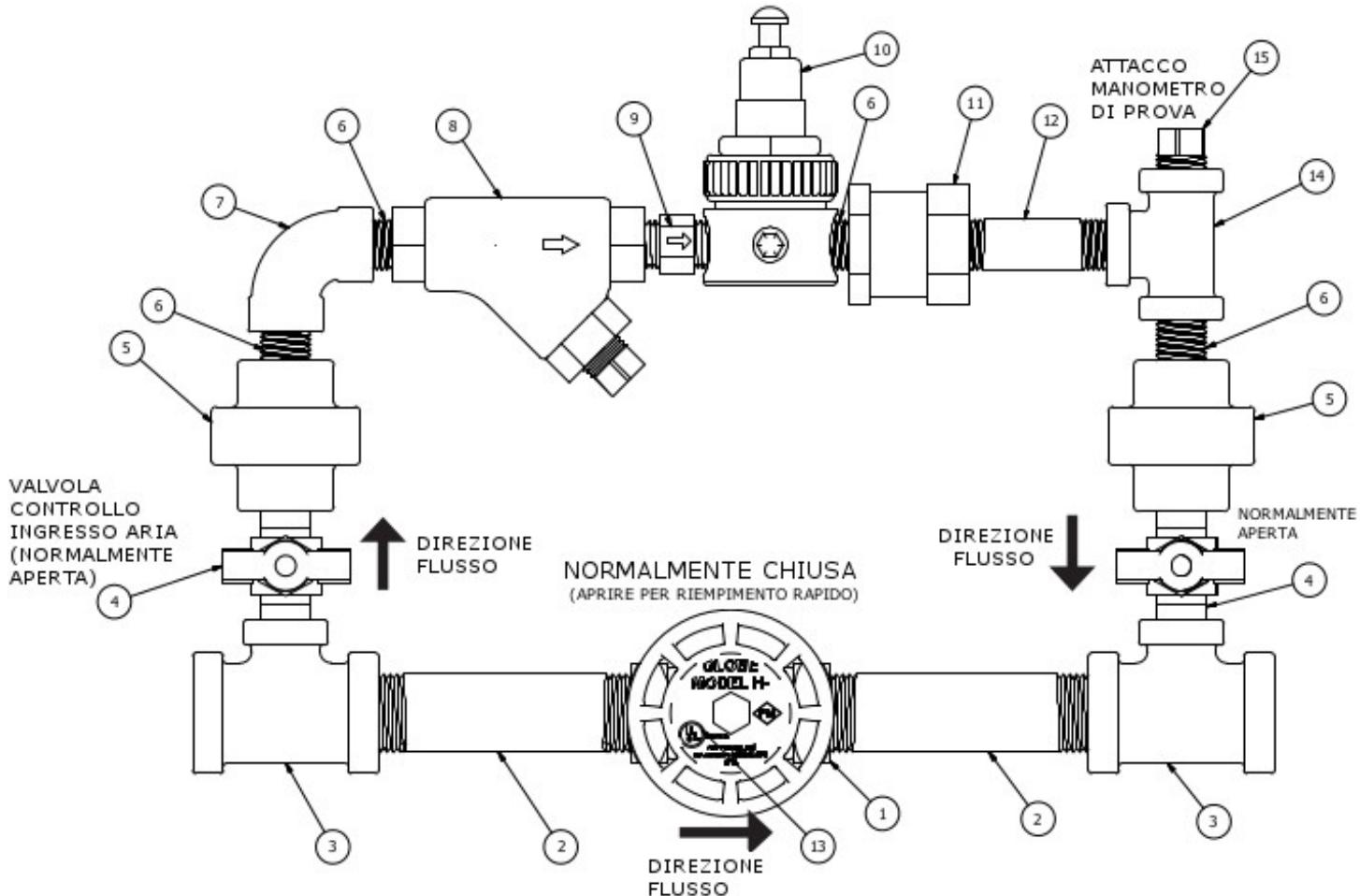
Si raccomanda la rimozione di umidità dall'aria in impianto attraverso un dispositivo di filtraggio umidità almeno trimestralmente. Ispezioni più frequenti potrebbero essere necessarie in caso di ambienti molto umidi.

Dopo aver messo in funzione l'impianto antincendio, darne notizia alle autorità ed avvertire gli incaricati per il monitoraggio e/o la centrale di allarme. La responsabilità per l'ispezione, il collaudo e la manutenzione dell'impianto di protezione antincendio e dei relativi dispositivi spetta ai proprietari in accordo con questo documento e con le norme del "National Fire Protection Association" (per esempio, NFPA 25), in aggiunta alle norme di qualsiasi altro ente avente giurisdizione. Contattare l'azienda installatrice o il produttore sprinkler per qualsiasi domanda.

Si raccomanda di far ispezionare, testare e mantenere gli impianti a sprinkler automatici da un'azienda specializzata, come richiesto dai regolamenti locali o dalla legge nazionale.

Il dispositivo H-1 deve essere ispezionato trimestralmente secondo le seguenti istruzioni.

- FASE 1.** Controllare che la valvola by-pass sia chiusa.
- FASE 2.** Chiudere la valvola di controllo ingresso aria del dispositivo H-1 e pulire il filtro da 1/4" posto all'ingresso del restrittore. Assicurarsi di reinstallare il filtro e stringere cuffia.
- FASE 3.** Aprire la valvola di controllo ingresso aria del dispositivo H-1 e verificare che la valvola di controllo nel trim ingresso aria del sistema da pressurizzare sia aperta.
- FASE 4.** Verificare che la pressione di sistema sia la stessa già in precedenza stabilita in base a quanto richiesto.



n. rif.	DESCRIZIONE	Quant.	n. rif.	DESCRIZIONE	Quant.
1	Valvola GLOBE 1/2"	1	9	Orifizio misurazione	1
2	Niplo 1/2" X 3 1/2"	2	10	Regolatore aria	1
3	Tee 1/2" X 1/2" X 1/4"	2	11	Valvola di controllo 1/4"	1
4	Valvola a spillo 1/4"	2	12	Niplo 1/4" X 2"	1
5	Bocchettone 1/4"	2	13	Targhetta per "H" A.M.D.	1
6	Niplo ridotto 1/4"	4	14	Tee 1/4"	1
7	Curva 1/4"	1	15	Tappo 1/4"	1
8	Filtro 1/4"	1			

IMMAGINE 1:DISPOSITIVO MANTENIMENTO ARIA H-1

INFORMAZIONI PER L'ORDINE
DISPOSITIVO DI MANTENIMENTO ARIA H1
 SPECIFICA: Model H-1, P.N.:
 DISPOSITIVO MANTENIMENTO ARIA H1... 320585

RICAMBI

- Valvola a spillo 1/4" 320586
- Filtro 1/4" 320587
- Regolatore aria 320590
- Valvola controllo 1/4" 320589
- Orifizio misurazione 320588

GARANZIA PRODOTTO GLOBE®

La Globe accetta di riparare o sostituire qualsiasi suo prodotto risultante difettoso nei materiali o nelle lavorazioni per un periodo pari a un anno dalla data di spedizione.

Per dettagli specifici riguardo alla garanzia si rimanda ai termini di listino e condizioni di vendita (riportati sul listino).



MODEL H-1 AIR MAINTENANCE DEVICE

GENERAL DESCRIPTION

Globe's Model H-1 Air Pressure Maintenance Device is an automatic, field-adjustable device of the pressure reducing type. It is used to control the supervisory air pressure in a dry pipe sprinkler system, preaction system, or dry pilot line system of a dry pilot sprinkler actuated deluge or preaction valve. The H-1 is utilized in applications where there is a compressed air (or nitrogen) source which is at a higher pressure than the desired system pressure. Pressure sources include plant air supplies having their own automatic compressor controls, or nitrogen supplies having single stage cylinder mounted pressure regulators.

The 1/2" globe valve is opened to admit air speedily to the dry pipe system, also known as the "Fast Fill". It is closed once the desired system air pressure has been established. As pressure drops on the system side of the 1/4" check valve, the regulator and metering orifice operate automatically to replace small losses of air which periodically occur in the system due to temperature or other system variations. The regulator and metering orifice limit the volume of air introduced to assure that the rate of air replacement is less than that from a operated sprinkler so that system activation may take place.

TECHNICAL DATA

Approvals

- cULus
- FM
- NYC-DOB MEA 335-91-M

Maximum Pressure

- 175 psi (12.3 kg/cm²)

Pressure Range Output

- 15-50 psi (1.05-3.51 kg/cm²)

Required Pressure Differential

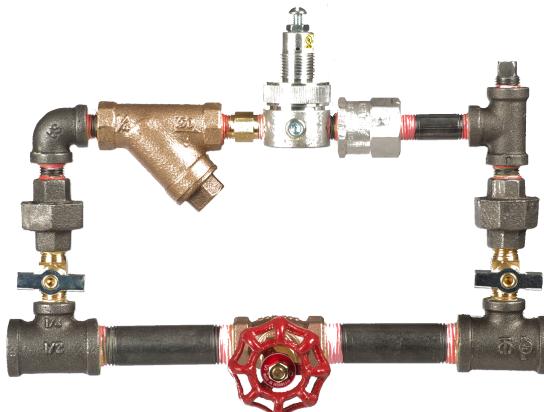
- 2 1/2 psi (0.176 kg/cm²)

End Connections

- 1/2" Female NPT

Physical Dimensions

- 9 11/16" X 7 3/4" (246 mm X 197 mm)



MODEL H-1 AIR MAINTENANCE DEVICE

INSTALLATION

The Globe Model H-1 Automatic Air Pressure Maintenance Device must be installed in accordance with the following instructions.

NOTE:

Moisture build-up can adversely affect performance. Ensure the Model H-1 Air Maintenance Device is installed in such a manner as to avoid the collection of water in the regulator device. Suitable consideration must be given to the removal of excessive moisture from the compressed air supply.

STEP 1. Make connections a minimum of 1/2 inch (DN15) pipe size between the inlet air supply and the Model H-1 Device, as well as between the Model H-1 Device and the system to pressurize.

STEP 2. Install a 1/2 inch (DN15), non-spring loaded, rubber-faced, swing-type check valve between the Model H-1 Device and the system to pressurize. A check valve of this type is provided in the air supply trim of GLOBE dry pipe valves, preaction valves, and dry pilot trim.

SETTING PROCEDURE

The GLOBE Model H-1 Automatic Air Maintenance Device must be set in accordance with the following instructions:

- STEP 1.** Determine the pressure that meets the minimum requirements of the system from the appropriate system technical literature.
- STEP 2.** Close the Model H-1 By-Pass Valve, and close the Model H-1 Air Supply Control Valve.
- STEP 3.** Open the control valve in the air supply trim of the system to pressurize and then reduce the system air pressure to 0 psi.
- STEP 4.** Close the control valve in the air supply trim of the system to pressurize.
- STEP 5.** Remove the system pressure gauge from its connection and temporarily install it in the 1/4 inch NPT Gauge Test Port.

CAUTION:

Before removing the plug, make certain that the piping to which the Model H-1 Gauge Test Port is connected is at 0 psi. Failure to do so may result in personal injury or property damage.

- STEP 6.** Open the Air Supply Control Valve in the Model H-1 Device.
- STEP 7.** While observing the relocated pressure gauge, adjust the output pressure of the Pressure Regulator. Loosen the lock nut below the pressure setting screw. Rotate the screw clockwise, as viewed from the top end of the Pressure Regulator, to increase pressure, and counter-clockwise to decrease pressure.

NOTE:

When decreasing pressure, the air pressure must be relieved downstream of the Pressure Regulator by temporarily opening the control valve in the air supply trim of the system to pressurize, assuming that the system to depressurized.

- STEP 8.** After the Pressure Regulator is set, tighten the lock nut below the pressure setting screw to secure the regulator in place.
- STEP 9.** Close the Air Supply Control Valve in the Model H-1 Device.

CAUTION:

Before removing the pressure gauge, make certain that the piping to which the Model H-1 Gauge Test Port is connected is at 0 psi. Failure to do so may result in personal injury or property damage.

- STEP 10.** Return the system air pressure gauge to its normal location. Re-install the 1/4 inch pipe plug in the Model H-1 Gauge Test Port. Apply pipe-thread sealant sparingly to the plug threads only.
- STEP 11.** Open the control valve in the air supply trim to the system to pressurize.
- STEP 12.** Open the Air Supply Control Valve in the Model H-1 Device.
- STEP 13.** Open the By-Pass Valve in the Model H-1 Device.
- STEP 14.** Close the By-Pass Valve after the system is pressurized to approximately 5 psi (0,4 bar) less than the minimum required system pressure determined in Step 1.
- STEP 15.** After the system pressure stabilizes, note the air pressure value and compare with the requirement. Re-adjust the Pressure Regulator, as required.

NOTE:

If the system was over-pressurized during manual fill, open a suitable connection to the system and manually reduce the pressure to the desired value. The

Model H-1 Automatic Air Maintenance Device then automatically maintains the preset system pressure. The Check Valve prevents the Pressure Regulator from bleeding down the system pressure.

- STEP 16.** In order to minimize the time for system trip in the event of a sprinkler operation, set the system pressure at the minimum required value.

CARE AND MAINTENANCE

The GLOBE Model H-1 Automatic Air Maintenance Device must be maintained and serviced in accordance with the following instructions, in addition to any specific requirements of the NFPA Standards. Any impairment must be immediately corrected.

NOTE:

Before closing a fire protection system main control valve for maintenance work on the fire protection system that it controls, obtain permission to shut down the affected fire protection system from the proper authorities and notify all personnel who may be affected by this action.

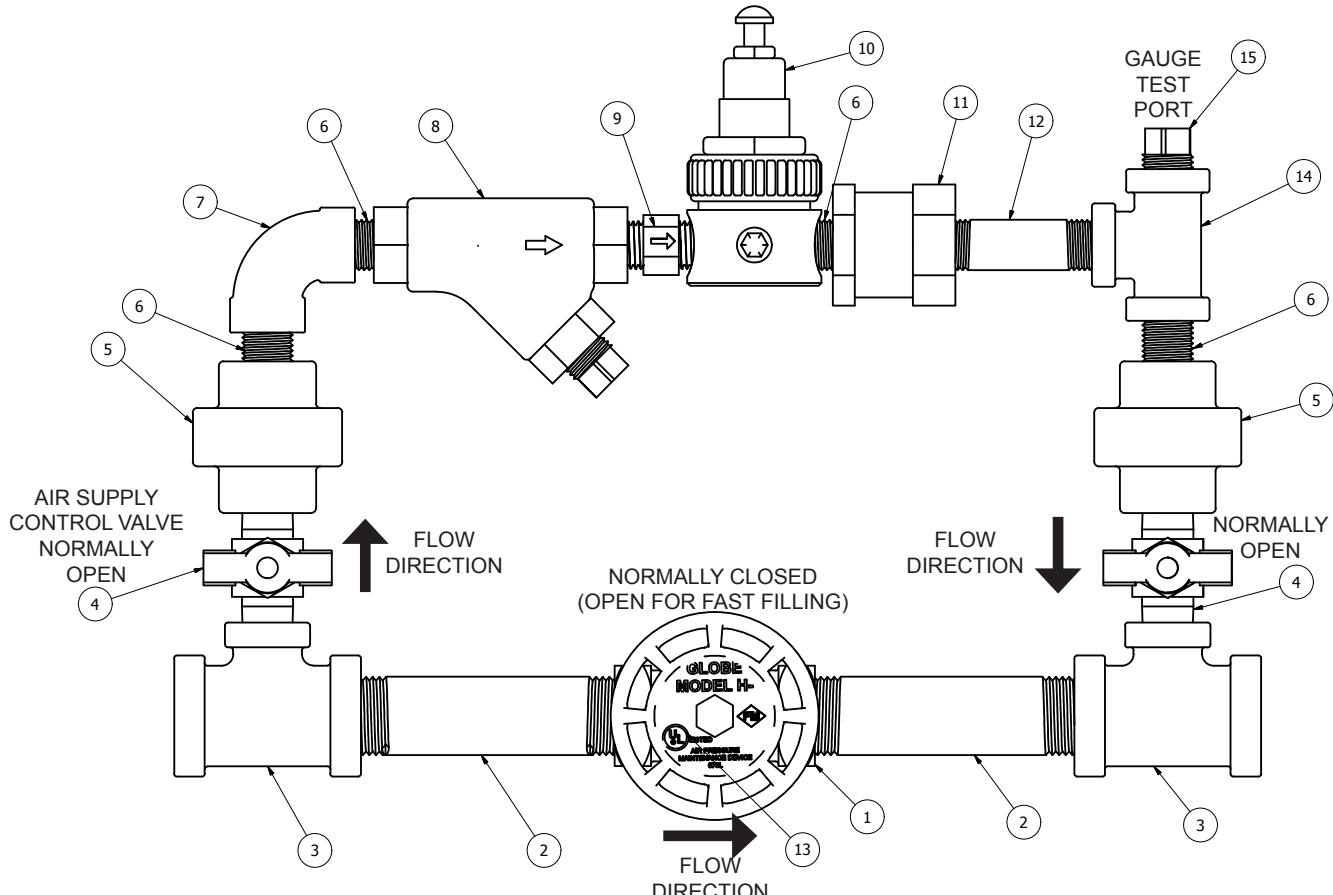
- It is recommended that accumulated moisture be removed from air supply moisture filtration equipment at least quarterly. More frequent inspections may be necessary in particularly humid environments.
- After placing a fire protection system in service, notify the proper authorities and advise those responsible for monitoring proprietary and/or central station alarms.
- Responsibility lies with owners for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of the National Fire Protection Association (for example, NFPA 25), in addition to the standards of any other authorities having jurisdiction. Contact the installing contractor or sprinkler manufacturer regarding any questions.
- Automatic sprinkler systems are recommended to be inspected, tested, and maintained by a qualified Inspection Service in accordance with local requirements and/or national code.
- The Model H-1 Device must be inspected quarterly in accordance with the following instructions.

- STEP 1.** Verify that the By-Pass Valve is closed.

- STEP 2.** Close the Model H-1 Air Supply Control Valve and clean out the 1/4 inch Strainer located at the inlet to the Restrictor. Be sure to reinstall the strainer screen and tighten the cap securely.

- STEP 3.** Open the Model H-1 Air Supply Valve and verify that the control valve in the air supply trim to the system to pressurize is open.

- STEP 4.** Verify that the system pressure is essentially the same as the previously established requirement.



ITEM	DESCRIPTION	QTY.	ITEM	DESCRIPTION	QTY.
1	1/2" GLOBE VALVE	1	9	METERING ORIFICE	1
2	1/2" X 3 1/2" NIPPLE	2	10	AIR REGULATOR	1
3	1/2" X 1/2" X 1/4" TEE	2	11	1/4" CHECK VALVE	1
4	1/4 NEEDLE VALVE	2	12	1/4" X 2" NIPPLE	1
5	1/4" UNION	2	13	NAMEPLATE FOR "H" A.M.D.	1
6	1/4" X CLOSE NIPPLE	4	14	1/4" TEE	1
7	1/4" ELBOW	1	15	1/4" PLUG	1
8	1/4" STRAINER	1			

FIGURE 1:H-1 AIR MAINTENANCE DEVICE

ORDERING INFORMATION

MODEL H-1 AIR MAINTENANCE DEVICE

SPECIFY: Model H-1, PN:

H-1 AIR MAINTENANCE DEVICE . . . 320585

REPLACEMENT PARTS

1/4 NEEDLE VALVE	320586
1/4 STRAINER	320587
AIR REGULATOR	320590
1/4 CHECK VALVE	320589
METERING ORIFICE	320588

GLOBE® PRODUCT WARRANTY

Globe agrees to repair or replace any of its own manufactured products found to be defective in material or workmanship for a period of one year from date of shipment.

For specific details of our warranty please refer to Price List Terms and Conditions of Sale (Our Price List).

4077 Airpark Dr.
Standish, MI 48658
Ph. 989-846-4583

Technical Support
1-800-248-0278
techservice@globesprinkler.com

www.globesprinkler.com



WATER MOTOR ALARM MODEL WM

GENERAL DESCRIPTION

Globe's Model WM Water Motor Alarm is a hydraulically operated outdoor alarm for use with fire protection systems. It is light weight yet durable, and can be used in conjunction with alarm check, dry pipe, deluge, and preaction valves 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.

Globe's Model WM Water Motor Alarm features a one-gong system which sounds an alarm outside the building.

The Water Motor Alarm is suitable for mounting to any type of rigid wall and with the standard offering can accommodate a wall thickness up to 16" (406.4 mm). It is provided with a listed and approved strainer for use in the alarm line. The Gong, Gong Mount, and Water Motor Housing are fabricated from corrosion resistant cast aluminum. The polymer drive bearings do not require lubrication.

The WM utilizes a lightweight, impeller design which can produce a very high decibel sound level. As water passes through the water motor, the impeller turns and the shaft rotates. The rotating shaft drives a striker assembly which rings the gong, sounding a continuous alarm as long as the water flow continues.



**WATER MOTOR ALARM
MODEL WM**

TECHNICAL DATA

Approvals

- cULus
- FM
- LPCB Approved
- NYC-DOB MEA 326-91-M

Maximum System Working Pressure

- Working Pressure Rating - 175 psi (12 bars).

Materials of Construction

- See Figure 2

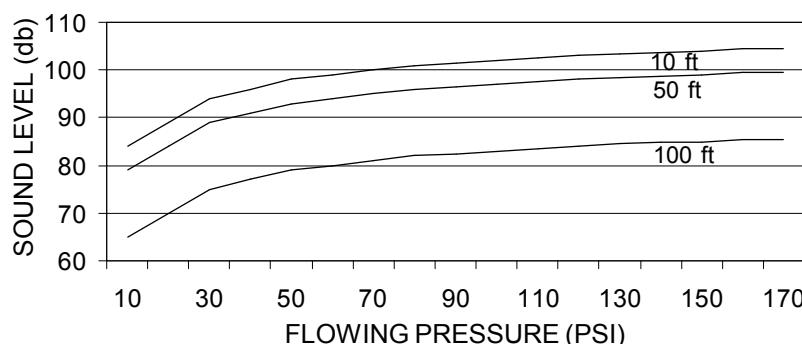
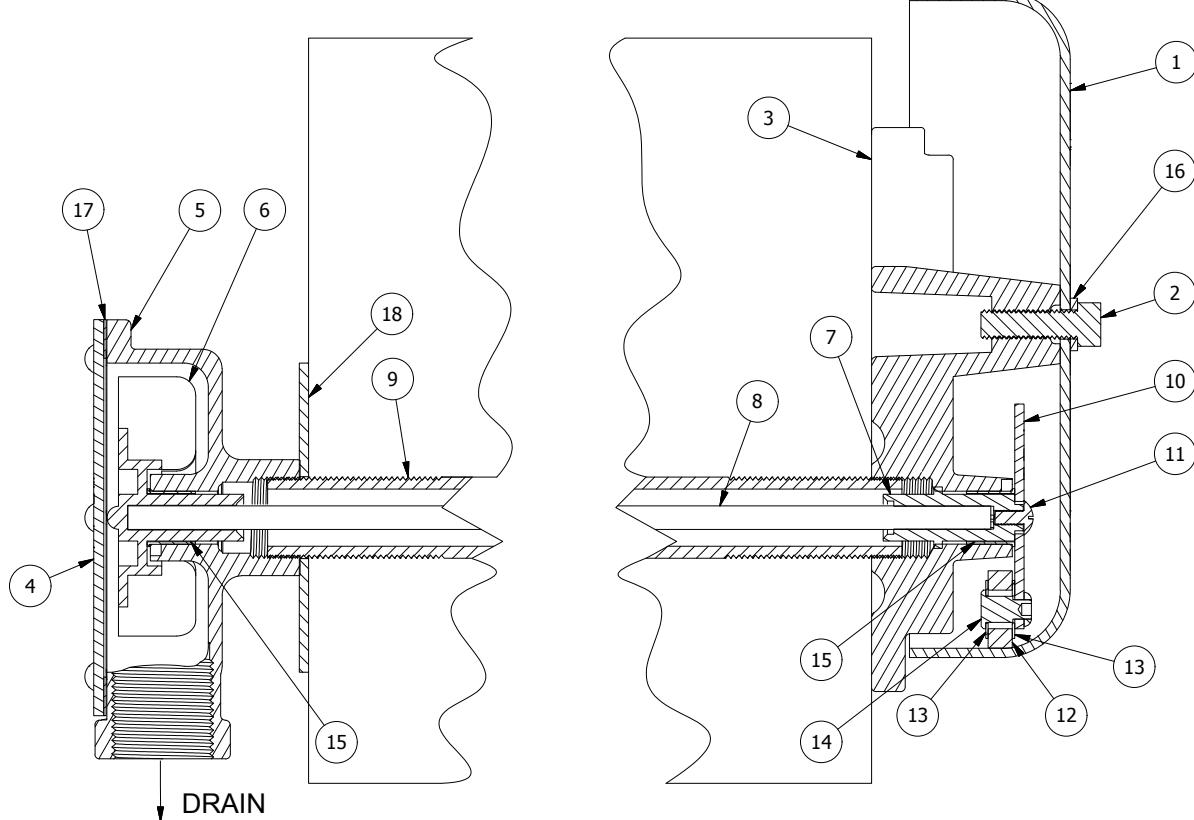


FIGURE 1:SOUND LEVEL VS FLOWING PRESSURE



ITEM	DESCRIPTION	MAT'L	P/N	ITEM	DESCRIPTION	MAT'L	P/N
1	Gong Shell	Aluminum	325506	10	Striker Arm	Mild Steel	325510
2	Hex Head Cap Screw	Zinc	325521	11	Cap Screw	Zinc Plated	325520
3	Gong Mounting Bracket	Aluminum	325504	12	Knocker	Phenolic	325513
4	Motor Cover	Aluminum	325509	13	Knocker Retaining Washer	Stainless Steel	325516
5	Impeller Housing	Aluminum	325502	14	Knocker Retaining Rivet	Stainless Steel	325514
6	Impeller	Delrin	325507	15	Bearing-Thompson	Type 6 Nylon	325518
7	Striker Shaft	Delrin	325508	16	3/8 Helical Spring Lock Washer	Steel	325522
8	Drive Shaft	Aluminum	325515	17	Backing Plate Gasket	Velumoid	325511
9	Threaded Pipe	Galvanized Pipe	325517	18	Wall Plate	Mild Steel	325528

FIGURE 2:WATER MOTOR ALARM MODEL WM

INSTALLATION

- STEP 1.** Locate and cut a hole in the wall to accommodate a 3/4" pipe through which the impeller driven shaft will pass.
- STEP 2.** Cut 3/4" pipe (Item 9) to 2" longer than wall thickness. Thread both ends with 3/4"NPT.
- STEP 3.** Cut drive shaft (Item 8) to 2" longer than pipe length.
- STEP 4.** Attach 3/4" pipe (Item 9) to gong bracket (Item 3) without detaching gong. Position this assembly on outside wall, sliding 3/4" pipe through pre-drilled hole. (Note: In some cases, the gong must be removed and holes in the gong bracket (Item 3) must be used to secure gong bracket to wall to prevent unwanted rotation.) On the inside wall, slide 4" x 4" wall plate (Item 18) over protruding 3/4" pipe and secure with 3/4" jam nut. Pipe and gong assembly are now attached securely through wall.
- STEP 5.** From impeller housing (Item 5) remove six cover screws, cover (Item 4), backing plate gasket (Item 17) and impeller (Item 6).
- STEP 6.** Attach impeller housing to 3/4" pipe (Item 9) and tighten.
- STEP 7.** Insert drive shaft (Item 8) through 3/4" pipe so that it engages with striker shaft (Item 7).
- STEP 8.** Place impeller in housing and rotate to engage with drive shaft. Once engaged, turn several times to assure assembly is free to move.
- STEP 9.** Replace backing plate gasket and plate, then secure with six screws.
- STEP 10.** Attach piping from alarm valve, or retard chamber, dry pipe valve, deluge or preaction valve to impeller housing fitting. Run drain to safe location.
- STEP 11.** Test alarm for proper operation, by flowing water through the alarm test valve or waterflow test connection.

MAINTENANCE

- The 3/4" strainer located between the alarm, dry pipe, deluge or preaction valve and impeller housing should be cleaned periodically to assure sufficient water flow to sound alarm.
- The cleanout plug on the impeller housing should be periodically removed and the housing cleaned to avoid debris and accumulation that could hinder alarm operation.
- The inside of the gong should be checked periodically for accumulation of foreign matter and cleaned accordingly, in accordance with the applicable Inspection and Maintenance standard typically NFPA 25.

GLOBE® PRODUCT WARRANTY

Globe agrees to repair or replace any of its own manufactured products found to be defective in material or workmanship for a period of one year from date of shipment.

For specific details of our warranty please refer to Price List Terms and Conditions of Sale (Our Price List).

ORDERING INFORMATION

MODEL WM WATER MOTOR ALARM

SPECIFY: Model WM, PN:

WM Water Motor Gong	325500
WM Water Motor Gong Domestic Galvanized	323535-DG

REPLACEMENT PARTS

EXTENDED DRIVE SHAFT

Specify: WM Extended Drive Shaft , Length, PN:

*20"	325515
24"	325515-24"
30"	325515-30"
36"	325515-36"
40"	325515-40"
48"	325515-48"

**Standard Offering*

STRIKER ARM REPLACEMENT PART KIT

Striker Arm Kit

325510-A

Striker Arm Replacement Part Kit Includes: Knocker, Striker Arm, 2 Retaining Washers, and Knocker Retaining Rivet

4077 Airpark Dr.
Standish, MI 48658
Ph. 989-846-4583

Technical Support
1-800-248-0278
techservice@globesprinkler.com

www.globesprinkler.com

